United States Department of Agriculture

Natural Resources Conservation Service

United States Department of the Interior

National Park Service

Soil Survey of Upper Delaware National Scenic and Recreational River, New York and Pennsylvania



How To Use This Soil Survey

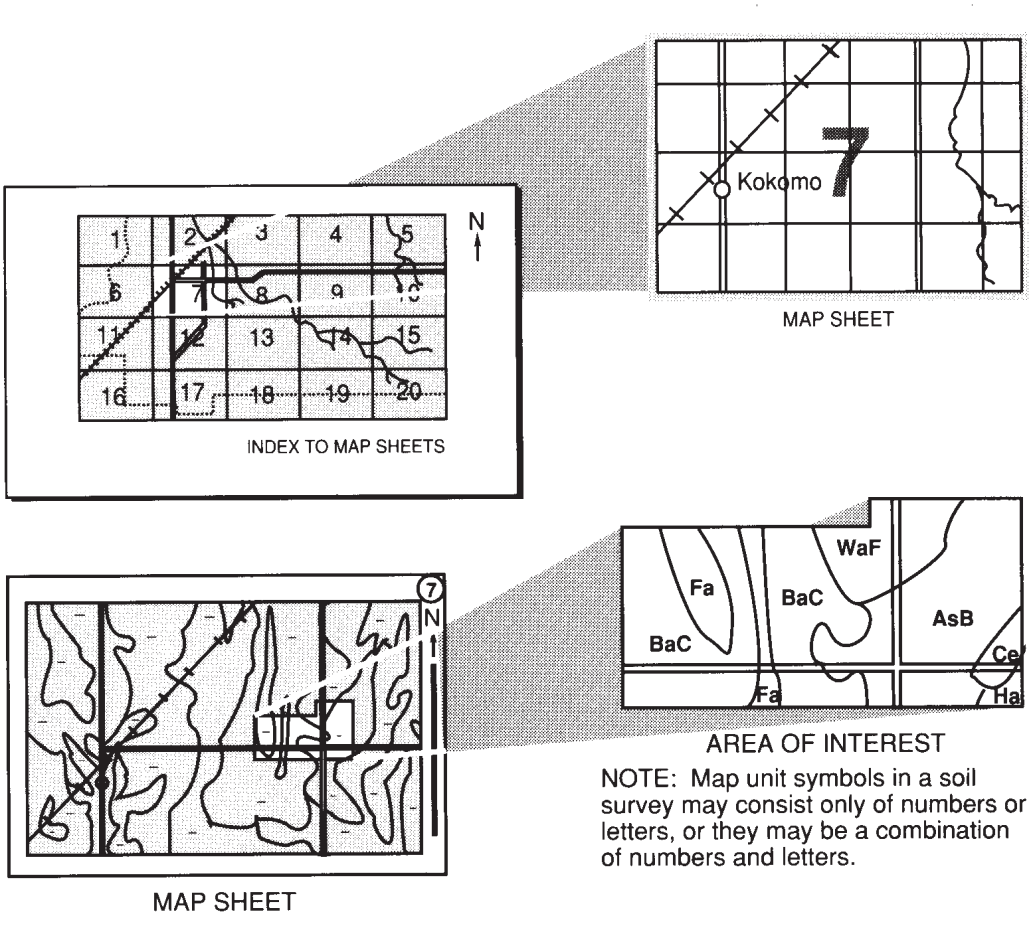
Detailed Soil Maps

The detailed soil maps can be useful in planning the use and management of small areas.

To find information about your area of interest, locate that area on the **Index to Map Sheets**. Note the number of the map sheet and turn to that sheet.

Locate your area of interest on the map sheet. Note the map unit symbols that are in that area. Turn to the **Contents**, which lists the map units by symbol and name and shows the page where each map unit is described.

The **Contents** shows which table has data on a specific land use for each detailed soil map unit. Also see the **Contents** for sections of this publication that may address your specific needs.



National Cooperative Soil Survey

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Literature Citation

The citation for this survey is as follows:

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Cover Caption

The Upper Delaware River from the Hawk's Nest overlook. In the river is Cherry Island, which is an area of Udifluvents-Fluvaquents complex, frequently flooded. On the far hillslope is an area of Manlius-Arnot-Rock outcrop complex, 30 to 80 percent slopes, rubbly.

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Issued 2013

Preface

This soil survey was developed in conjunction with the National Park Service's Soil Inventory and Monitoring Program and is intended to serve as the official source document for soils occurring within Upper Delaware National Scenic and Recreational River.

This soil survey contains information that affects current and future land use planning in the park. It contains predictions of soil behavior for selected land uses. The survey highlights soil limitations, actions needed to overcome the limitations, and the impact of selected land uses on the environment. It is designed to meet the needs of the National Park Service and its partners to better understand the properties of the soils in the park and the effects of these properties on various natural ecological characteristics. This knowledge can help the National Park Service and its partners to understand, protect, and enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. The information in this report is intended to identify soil properties that are used in making various land use or land treatment decisions. Statements made in this report are intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are shallow to bedrock. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

These and many other soil properties that affect land use are described in this soil survey. The location of each map unit is shown on the detailed soil maps. Each soil in the survey area is described, and information on specific uses is given. Help in using this publication and additional information are available at the local office of the Natural Resources Conservation Service or at the local headquarters of the National Park Service.

Soil Survey of Upper Delaware National Scenic and Recreational River, New York and Pennsylvania

United States Department of Agriculture, Natural Resources Conservation Service, and United States Department of the Interior, National Park Service

Upper Delaware National Scenic and Recreational River is located in New York and Pennsylvania (fig. 1). This survey was made in conjunction with the National Park Service's Soil Inventory and Monitoring Program to provide information about the soils and miscellaneous areas within the Upper Delaware National Scenic and Recreational River area.

How This Survey Was Made

The soil survey data for the park was extracted in May 2012 from five county-based soil surveys in Pennsylvania and New York. The areas were Orange, Sullivan, and Delaware Counties in New York and Pike and Wayne Counties in Pennsylvania. The Soil Survey of Orange County, New York, was correlated in April 1976 at a scale of 1:15,849. The Soil Survey of Sullivan County, New York, was correlated in August 1984. Some of the data for these two New York surveys was updated and reposted, most recently in March 2012. The Soil Survey of Delaware County, New York, was correlated in May 1999 at a scale of 1:24,000, was recertified in March 2003, and was updated in December 2011. The Soil Survey of Pike County, Pennsylvania, was correlated in 1995 at a scale of 1:24,000. The data was posted in June 2003. The Soil Survey of Wayne County, Pennsylvania, was correlated in 1977. It was updated and reposted in May 2003. Overall, the park has 269 different soil map units, representing 1,287 soil and nonsoil components. Examples of nonsoil components are water, urban land, and rock outcrop.

The information in this survey includes a description of the soils and miscellaneous areas and their location and a discussion of their suitability, limitations, and management for specified uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of native plants; and the kinds of bedrock. They dug many holes to study the soil profile, which is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

The soils and miscellaneous areas in the survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a

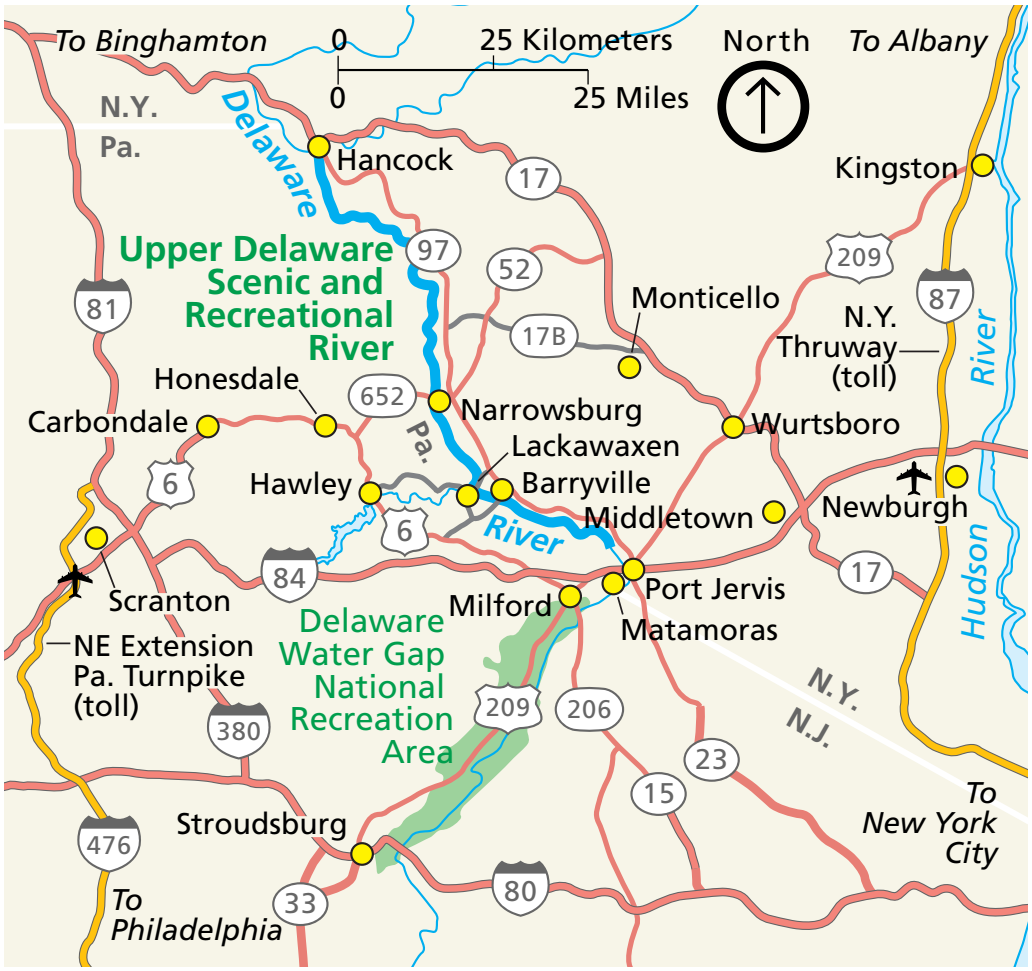


Figure 1.—Location of Upper Delaware National Scenic and Recreational River along the New York and Pennsylvania borders.

considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units).

Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that

they could confirm data and assemble additional data based on experience and research.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they delineated the boundaries of these bodies on digital imagery and identified each as a specific map unit.

Detailed Soil Map Units

The map units delineated on the detailed soil map in this survey represent the soils or miscellaneous areas in the park. The map unit descriptions in this section, along with the soil maps, can be used to determine the suitability and potential of a unit for specific uses. They also can be used to plan the management needed for those uses.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. The contrasting components are mentioned in the map unit descriptions. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. The soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most

of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Bath channery silt loam, 8 to 15 percent slopes, is a phase of the Bath series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Torull-Gretor complex, 0 to 6 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Halcott, Mongaup, and Vly soils, 2 to 15 percent slopes, very rocky, is an undifferentiated group in this survey area.

This survey includes *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Pits, gravel, is an example.

Table 1 lists each map unit in the park, its major and minor components, and the percentage of each component in the unit. Because not all minor components were fully identified at the time of mapping, the map unit compositions do not add up to 100 percent for all units in the tables and in the map unit descriptions. Other tables give properties of the soils and the limitations, capabilities, and potentials for many uses. The Glossary defines many of the terms used in describing the soils or miscellaneous areas.

290457—Barbour loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 245 to 1,495 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Barbour and similar soils: 85 percent
Dissimilar minor components: 5 percent

Description of Barbour Soil

Soil Classification
Coarse-loamy over sandy or sandy-skeletal, mixed, active, mesic Fluventic Dystrudepts

Setting
Landform: Flood plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Rise
Slope: 0 to 3 percent
Down-slope shape: Convex
Across-slope shape: Convex

Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy over sandy and gravelly alluvium derived mainly from acid, reddish sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Depth to water table: About 36 to 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 1
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
Ap—0 to 6 inches; loam
Bw1—6 to 18 inches; silt loam
Bw2—18 to 26 inches; gravelly loam
2C—26 to 72 inches; very gravelly loamy sand

Minor Components

Fluvaquents
Percent of map unit: 3 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

Udifluvents
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

290461—Bath channery silt loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Bath and similar soils: 80 percent

Description of Bath Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from gray and brown siltstone, sandstone, and shale
Restrictive feature(s): Fragipan at a depth of 26 to 38 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 16 to 24 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
Ap—0 to 9 inches; channery silt loam
Bw—9 to 20 inches; channery silt loam
E/B—20 to 26 inches; channery loam
Bx—26 to 72 inches; very channery silt loam

290465—Cadosia extremely channery loam, 15 to 35 percent slopes, very bouldery

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,000 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Cadosia and similar soils: 75 percent

Description of Cadosia Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Valley sides, hills

Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Channery, loamy till and local colluvium derived from sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 8.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
A—0 to 6 inches; extremely channery loam
Bw1, Bw2—6 to 23 inches; very channery loam
Bw3—23 to 32 inches; very channery loam
BC—32 to 58 inches; very channery loam
C—58 to 72 inches; extremely gravelly sandy loam

290466—Cadosia extremely channery loam, 35 to 70 percent slopes, very bouldery

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 730 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Cadosia and similar soils: 75 percent

Description of Cadosia Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Valley sides, hills
Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope
Slope: 35 to 70 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Channery, loamy till and local colluvium derived from sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 8.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
A—0 to 6 inches; extremely channery loam
Bw1, Bw2—6 to 23 inches; very channery loam
Bw3—23 to 32 inches; very channery loam
BC—32 to 58 inches; very channery loam
C—58 to 72 inches; extremely gravelly sandy loam

290468—Chenango gravelly silt loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Chenango and similar soils: 85 percent

Description of Chenango Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Terraces, valley trains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread

Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from sandstone, shale, and siltstone
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
Ap—0 to 10 inches; gravelly silt loam
Bw1—10 to 21 inches; very gravelly silt loam
Bw2—21 to 25 inches; very gravelly sandy loam
2C—25 to 72 inches; very gravelly loamy coarse sand

290483—Fluvaquents-Udifluvents complex, frequently flooded

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 95 to 2,995 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Fluvaquents and similar soils: 45 percent
Udifluvents and similar soils: 35 percent

Description of Fluvaquents

Soil Classification
Fluvaquents

Setting
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Dip
Slope: 0 to 3 percent
Down-slope shape: Concave

Across-slope shape: Concave
Aspect (representative): East
Aspect (range): All aspects

Properties and Qualities
Parent material: Alluvium with highly variable texture
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Frequent
Frequency of ponding: Frequent
Depth to water table: At the surface to a depth of 12 inches
Drainage class: Poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 8
Available water capacity: Moderate (about 7.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 5w
Hydric soil status: Yes
Hydrologic soil group: A/D

Typical Profile
A—0 to 8 inches; gravelly silt loam
C—8 to 72 inches; very gravelly silt loam

Description of Udifluvents

Soil Classification
Udifluvents

Setting
Landform: Flood plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Rise
Slope: 0 to 3 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects

Properties and Qualities
Parent material: Alluvium with a wide range of texture
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Depth to water table: About 24 to 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 5w
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
A—0 to 8 inches; gravelly loam
C—8 to 72 inches; very gravelly loam

290484—Halcott, Mongaup, and Vly soils, 2 to 15 percent slopes, very rocky

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,000 to 4,100 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 41 to 45 degrees F
Frost-free period: 100 to 125 days

Map Unit Composition

Halcott and similar soils: 25 percent
Mongaup and similar soils: 25 percent
Vly and similar soils: 25 percent

Description of Halcott Soil

Soil Classification
Loamy-skeletal, mixed, active, frigid Lithic Dystrudepts

Setting
Landform: Mountains, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Mountaintop, crest
Slope: 2 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Frigid

Properties and Qualities
Parent material: A thin mantle of channery, loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
A—0 to 3 inches; channery loam
Bw—3 to 11 inches; very channery silt loam
BC—11 to 18 inches; very channery silt loam
2R—18 to 28 inches; bedrock

Description of Mongaup Soil

Soil Classification
Coarse-loamy, mixed, active, frigid Typic Dystrudepts

Setting
Landform: Mountains, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Mountaintop, crest
Slope: 2 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Frigid

Properties and Qualities
Parent material: Loamy till derived from sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
Ap—0 to 5 inches; channery loam
Bw1—5 to 12 inches; channery silt loam
Bw2—12 to 20 inches; channery silt loam
BC—20 to 28 inches; very channery silt loam
2R—28 to 38 inches; bedrock

Description of Vly Soil

Soil Classification
Loamy-skeletal, mixed, superactive, frigid Typic Dystrudepts

Setting
Landform: Mountains, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Mountaintop, crest
Slope: 2 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Frigid

Properties and Qualities
Parent material: Channery, loamy till that is derived mainly from reddish sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches

Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
Ap—0 to 6 inches; channery silt loam
Bw1—6 to 18 inches; very channery silt loam
Bw2—18 to 24 inches; very channery silt loam
BC—24 to 31 inches; extremely channery silt loam
2R—31 to 41 inches; bedrock

290485—Halcott, Mongaup, and Vly soils, 15 to 35 percent slopes, very rocky

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,000 to 4,100 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 41 to 45 degrees F
Frost-free period: 100 to 125 days

Map Unit Composition

Halcott and similar soils: 25 percent
Mongaup and similar soils: 25 percent
Vly and similar soils: 25 percent

Description of Halcott Soil

Soil Classification
Loamy-skeletal, mixed, active, frigid Lithic Dystrudepts

Setting
Landform: Mountains, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Slope: 15 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Frigid

Properties and Qualities
Parent material: A thin mantle of channery, loamy till derived from reddish sandstone, siltstone, and shale

Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
A—0 to 3 inches; channery loam
Bw—3 to 11 inches; very channery silt loam
BC—11 to 18 inches; very channery silt loam
2R—18 to 28 inches; bedrock

Description of Mongaup Soil

Soil Classification
Coarse-loamy, mixed, active, frigid Typic Dystrudepts

Setting
Landform: Mountains, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Slope: 15 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Frigid

Properties and Qualities
Parent material: Loamy till derived from sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
Ap—0 to 5 inches; channery loam
Bw1—5 to 12 inches; channery silt loam
Bw2—12 to 20 inches; channery silt loam
BC—20 to 28 inches; very channery silt loam
2R—28 to 38 inches; bedrock

Description of Vly Soil

Soil Classification
Loamy-skeletal, mixed, superactive, frigid Typic Dystrudepts

Setting
Landform: Mountains, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Slope: 15 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Frigid

Properties and Qualities
Parent material: Channery, loamy till that is derived mainly from reddish sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
Ap—0 to 6 inches; channery silt loam
Bw1—6 to 18 inches; very channery silt loam
Bw2—18 to 24 inches; very channery silt loam
BC—24 to 31 inches; extremely channery silt loam
2R—31 to 41 inches; bedrock

290487—Lackawanna flaggy silt loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,095 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Lackawanna and similar soils: 80 percent

Description of Lackawanna Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 20 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 18 to 26 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: C/D

Vegetation
Existing plants: Sedge, red maple, northern red oak, lowbush blueberry, and rare clubmoss

Typical Profile
Ap—0 to 7 inches; flaggy silt loam
Bw1—7 to 18 inches; flaggy silt loam
Bw2—18 to 28 inches; flaggy silt loam
Bx—28 to 48 inches; flaggy silt loam
Cd—48 to 72 inches; flaggy loam

290488—Lackawanna flaggy silt loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,095 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Lackawanna and similar soils: 80 percent

Description of Lackawanna Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 20 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 18 to 26 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C/D

Vegetation
Existing plants: Red maple, sedge, rare clubmoss, northern red oak, and lowbush blueberry

Typical Profile
Ap—0 to 7 inches; flaggy silt loam
Bw1—7 to 18 inches; flaggy silt loam
Bw2—18 to 28 inches; flaggy silt loam
Bx—28 to 48 inches; flaggy silt loam
Cd—48 to 72 inches; flaggy loam

290489—Lackawanna flaggy silt loam, 15 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,095 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Lackawanna and similar soils: 80 percent

Description of Lackawanna Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 25 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 20 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 18 to 26 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: C/D

Vegetation
Existing plants: Red maple, sedge, rare clubmoss, northern red oak, and lowbush blueberry

Typical Profile
Ap—0 to 7 inches; flaggy silt loam
Bw1—7 to 18 inches; flaggy silt loam
Bw2—18 to 28 inches; flaggy silt loam
Bx—28 to 48 inches; flaggy silt loam
Cd—48 to 72 inches; flaggy loam

290490—Lackawanna flaggy silt loam, 25 to 40 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,095 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Lackawanna and similar soils: 80 percent

Description of Lackawanna Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 25 to 40 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 20 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 18 to 26 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6e
Hydric soil status: No
Hydrologic soil group: C/D

Vegetation
Existing plants: Red maple, sedge, rare clubmoss, northern red oak, and lowbush blueberry

Typical Profile
Ap—0 to 7 inches; flaggy silt loam
Bw1—7 to 18 inches; flaggy silt loam
Bw2—18 to 28 inches; flaggy silt loam
Bx—28 to 48 inches; flaggy silt loam
Cd—48 to 72 inches; flaggy loam

290491—Lackawanna and Bath soils, 3 to 15 percent slopes, very stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Lackawanna and similar soils: 50 percent
Bath and similar soils: 30 percent

Description of Lackawanna Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 3 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 20 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 18 to 26 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C/D

Vegetation
Existing plants: Red maple, sedge, rare clubmoss, northern red oak, and lowbush blueberry

Typical Profile
Ap—0 to 7 inches; flaggy silt loam
Bw1—7 to 18 inches; flaggy silt loam
Bw2—18 to 28 inches; flaggy silt loam
Bx—28 to 48 inches; flaggy silt loam
Cd—48 to 72 inches; flaggy loam

Description of Bath Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 3 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from gray and brown siltstone, sandstone, and shale
Restrictive feature(s): Fragipan at a depth of 26 to 38 inches

Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 16 to 24 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
Ap—0 to 9 inches; channery silt loam
Bw—9 to 20 inches; channery silt loam
E/B—20 to 26 inches; channery loam
Bx—26 to 72 inches; very channery silt loam

290492—Lackawanna and Bath soils, 15 to 35 percent slopes, very stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Lackawanna and similar soils: 50 percent
Bath and similar soils: 30 percent

Description of Lackawanna Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 20 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 18 to 26 inches (perched)

Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C/D

Vegetation
Existing plants: Red maple, sedge, rare clubmoss, northern red oak, and lowbush blueberry

Typical Profile
Ap—0 to 7 inches; flaggy silt loam
Bw1—7 to 18 inches; flaggy silt loam
Bw2—18 to 28 inches; flaggy silt loam
Bx—28 to 48 inches; flaggy silt loam
Cd—48 to 72 inches; flaggy loam

Description of Bath Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from gray and brown siltstone, sandstone, and shale
Restrictive feature(s): Fragipan at a depth of 26 to 38 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 16 to 24 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
Ap—0 to 9 inches; channery silt loam
Bw—9 to 20 inches; channery silt loam
E/B—20 to 26 inches; channery loam
Bx—26 to 72 inches; very channery silt loam

290493—Lackawanna and Bath soils, 35 to 55 percent slopes, very stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Lackawanna and similar soils: 50 percent
Bath and similar soils: 30 percent

Description of Lackawanna Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 35 to 55 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 20 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 18 to 26 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C/D

Vegetation
Existing plants: Red maple, sedge, rare clubmoss, northern red oak, and lowbush blueberry

Typical Profile
Ap—0 to 7 inches; flaggy silt loam
Bw1—7 to 18 inches; flaggy silt loam
Bw2—18 to 28 inches; flaggy silt loam
Bx—28 to 48 inches; flaggy silt loam
Cd—48 to 72 inches; flaggy loam

Description of Bath Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 35 to 55 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from gray and brown siltstone, sandstone, and shale
Restrictive feature(s): Fragipan at a depth of 26 to 38 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 16 to 24 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
Ap—0 to 9 inches; channery silt loam
Bw—9 to 20 inches; channery silt loam
E/B—20 to 26 inches; channery loam
Bx—26 to 72 inches; very channery silt loam

290506—Lordstown channery silt loam, 2 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 750 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Lordstown and similar soils: 80 percent

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 2 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 3 inches; channery silt loam
Bw1—3 to 6 inches; channery silt loam
Bw2—6 to 19 inches; channery silt loam
BC—19 to 27 inches; channery loam
C—27 to 32 inches; gravelly loam
2R—32 to 42 inches; unweathered bedrock

290507—Lordstown channery silt loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 750 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Lordstown and similar soils: 80 percent

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 3 inches; channery silt loam
Bw1—3 to 6 inches; channery silt loam
Bw2—6 to 19 inches; channery silt loam
BC—19 to 27 inches; channery loam
C—27 to 32 inches; gravelly loam
2R—32 to 42 inches; unweathered bedrock

290509—Lordstown channery silt loam, 25 to 40 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 750 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Lordstown and similar soils: 80 percent

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 25 to 40 percent

Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 3 inches; channery silt loam
Bw1—3 to 6 inches; channery silt loam
Bw2—6 to 19 inches; channery silt loam
BC—19 to 27 inches; channery loam
C—27 to 32 inches; gravelly loam
2R—32 to 42 inches; unweathered bedrock

290510—Maplecrest gravelly silt loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,200 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Maplecrest and similar soils: 80 percent

Description of Maplecrest Soil

Soil Classification
Coarse-loamy, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: End moraines, lateral moraines, valley sides
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex

Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till dominated by material from reddish sandstone, siltstone, or shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 8.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
A—0 to 3 inches; gravelly silt loam
BA—3 to 6 inches; gravelly silt loam
Bw1—6 to 18 inches; gravelly silt loam
Bw2—18 to 36 inches; gravelly very fine sandy loam
C1—36 to 46 inches; gravelly loam
C2—46 to 72 inches; gravelly fine sandy loam

290511—Maplecrest gravelly silt loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,200 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Maplecrest and similar soils: 80 percent

Description of Maplecrest Soil

Soil Classification
Coarse-loamy, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: End moraines, lateral moraines, valley sides
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East

Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till dominated by material from reddish sandstone, siltstone, or shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 8.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
A—0 to 3 inches; gravelly silt loam
BA—3 to 6 inches; gravelly silt loam
Bw1—6 to 18 inches; gravelly silt loam
Bw2—18 to 36 inches; gravelly very fine sandy loam
C1—36 to 46 inches; gravelly loam
C2—46 to 72 inches; gravelly fine sandy loam

290512—Maplecrest gravelly silt loam, 15 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,200 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Maplecrest and similar soils: 80 percent

Description of Maplecrest Soil

Soil Classification
Coarse-loamy, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: End moraines, lateral moraines, valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 25 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till dominated by material from reddish sandstone, siltstone, or shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 8.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
A—0 to 3 inches; gravelly silt loam
BA—3 to 6 inches; gravelly silt loam
Bw1—6 to 18 inches; gravelly silt loam
Bw2—18 to 36 inches; gravelly very fine sandy loam
C1—36 to 46 inches; gravelly loam
C2—46 to 72 inches; gravelly fine sandy loam

290514—Mardin channery silt loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Mardin and similar soils: 80 percent
Dissimilar minor components: 5 percent

Description of Mardin Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 3 to 8 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sedimentary rock
Restrictive feature(s): Fragipan at a depth of 15 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 12 to 20 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
A—0 to 5 inches; channery silt loam
Bw1—5 to 14 inches; channery silt loam
Bw2—14 to 23 inches; channery silt loam
E—23 to 26 inches; channery loam
Bx1—26 to 52 inches; very channery loam
Bx2—52 to 72 inches; very channery loam

Minor Components

Volusia
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

290515—Mardin channery silt loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Mardin and similar soils: 80 percent
Dissimilar minor components: 5 percent

Description of Mardin Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent

Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sedimentary rock
Restrictive feature(s): Fragipan at a depth of 15 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 12 to 20 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
A—0 to 5 inches; channery silt loam
Bw1—5 to 14 inches; channery silt loam
Bw2—14 to 23 inches; channery silt loam
E—23 to 26 inches; channery loam
Bx1—26 to 52 inches; very channery loam
Bx2—52 to 72 inches; very channery loam

Minor Components

Volusia
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

290519—Mongaup channery loam, 2 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,745 to 2,495 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 41 to 45 degrees F
Frost-free period: 100 to 125 days

Map Unit Composition

Mongaup and similar soils: 80 percent
Dissimilar minor components: 5 percent

Description of Mongaup Soil

Soil Classification
Coarse-loamy, mixed, active, frigid Typic Dystrudepts

Setting
Landform: Mountains, hills
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Mountaintop, crest
Slope: 2 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Frigid

Properties and Qualities
Parent material: Loamy till derived from sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
Ap—0 to 5 inches; channery loam
Bw1—5 to 12 inches; channery silt loam
Bw2—12 to 20 inches; channery silt loam
BC—20 to 28 inches; very channery silt loam
2R—28 to 38 inches; bedrock

Minor Components

Vly
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

290522—Morris flaggy silt loam, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 295 to 1,695 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Morris and similar soils: 85 percent
Dissimilar minor components: 5 percent

Description of Morris Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Base slope
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 12 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
A—0 to 8 inches; flaggy silt loam
Bg—8 to 14 inches; channery silt loam
Bx1—14 to 26 inches; channery silt loam
Bx2—26 to 72 inches; flaggy silt loam

Minor Components

Fluvaquents
Percent of map unit: 3 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

Udifluvents
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

290523—Morris flaggy silt loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 295 to 1,695 feet

Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Morris and similar soils: 85 percent
Dissimilar minor components: 5 percent

Description of Morris Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Base slope
Slope: 3 to 8 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 12 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
A—0 to 8 inches; flaggy silt loam
Bg—8 to 14 inches; channery silt loam
Bx1—14 to 26 inches; channery silt loam
Bx2—26 to 72 inches; flaggy silt loam

Minor Components

Fluvaquents
Percent of map unit: 3 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

Udifluvents
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

290525—Morris and Volusia soils, 2 to 10 percent slopes, very stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 295 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Morris and similar soils: 50 percent
Volusia and similar soils: 30 percent

Description of Morris Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Base slope
Slope: 2 to 10 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 12 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: D

Vegetation
Existing plants: Cinnamon fern, interrupted fern, and Christmas fern

Typical Profile
A—0 to 8 inches; flaggy silt loam
Bg—8 to 14 inches; channery silt loam
Bx1—14 to 26 inches; channery silt loam
Bx2—26 to 72 inches; flaggy silt loam

Description of Volusia Soil

Soil Classification
Fine-loamy, mixed, superactive, mesic Aeric Fragiaquepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Base slope
Slope: 2 to 10 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from siltstone, sandstone, and shale or from slate
Restrictive feature(s): Fragipan at a depth of 10 to 22 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 12 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
Ap—0 to 8 inches; channery silt loam
Bw—8 to 15 inches; channery silt loam
Eg—15 to 22 inches; channery silt loam
Bx—22 to 52 inches; channery silt loam
Cd—52 to 72 inches; very channery silt loam

290526—Norchip silt loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,745 to 2,400 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 41 to 45 degrees F
Frost-free period: 100 to 125 days

Map Unit Composition

Norchip and similar soils: 80 percent
Dissimilar minor components: 5 percent

Description of Norchip Soil

Soil Classification
Fine-loamy, mixed, active, frigid Aeric Fragiaquepts

Setting
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Frigid

Properties and Qualities
Parent material: Loamy till derived mainly from sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: At the surface to a depth of 1 inch (perched)
Drainage class: Poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4w
Hydric soil status: Yes
Hydrologic soil group: D

Typical Profile
A—0 to 2 inches; silt loam
Eg1—2 to 7 inches; silt loam
Eg2—7 to 11 inches; silt loam
Bx1—11 to 25 inches; channery loam
Bx2—25 to 52 inches; channery loam
C—52 to 72 inches; very gravelly silt loam

Minor Components

Bucksport
Percent of map unit: 5 percent
Landform: Swamps, marshes, bogs
Aspect (representative): North
Hydric soil status: Yes

290535—Oquaga channery silt loam, 2 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Oquaga and similar soils: 80 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 2 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
Ap—0 to 6 inches; channery silt loam
Bw, BC—6 to 24 inches; very channery silt loam
2R—24 to 34 inches; unweathered bedrock

290536—Oquaga channery silt loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Oquaga and similar soils: 80 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
Ap—0 to 6 inches; channery silt loam
Bw, BC—6 to 24 inches; very channery silt loam
2R—24 to 34 inches; unweathered bedrock

290539—Oquaga channery silt loam, 35 to 50 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Oquaga and similar soils: 80 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope

Slope: 35 to 50 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
Ap—0 to 6 inches; channery silt loam
Bw, BC—6 to 24 inches; very channery silt loam
2R—24 to 34 inches; unweathered bedrock

290540—Oquaga, Lordstown, and Arnot soils, 2 to 15 percent slopes, very rocky

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Oquaga and similar soils: 25 percent
Lordstown and similar soils: 25 percent
Arnot and similar soils: 25 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 2 to 15 percent

Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
A—0 to 2 inches; channery loam
Bw1—2 to 8 inches; channery silt loam
Bw2—8 to 17 inches; very channery silt loam
2R—17 to 27 inches; unweathered bedrock

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 2 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s

Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 3 inches; channery silt loam
Bw1—3 to 6 inches; channery silt loam
Bw2—6 to 19 inches; channery silt loam
BC—19 to 27 inches; channery loam
C—27 to 32 inches; gravelly loam
2R—32 to 42 inches; unweathered bedrock

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 2 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
Ap—0 to 6 inches; channery silt loam
Bw, BC—6 to 24 inches; very channery silt loam
2R—24 to 34 inches; unweathered bedrock

290541—Oquaga, Lordstown, and Arnot soils, 15 to 35 percent slopes, very rocky

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 1,800 feet

Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Oquaga and similar soils: 25 percent
Lordstown and similar soils: 25 percent
Arnot and similar soils: 25 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
A—0 to 2 inches; channery loam
Bw1—2 to 8 inches; channery silt loam
Bw2—8 to 17 inches; very channery silt loam
2R—17 to 27 inches; unweathered bedrock

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex

Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 3 inches; channery silt loam
Bw1—3 to 6 inches; channery silt loam
Bw2—6 to 19 inches; channery silt loam
BC—19 to 27 inches; channery loam
C—27 to 32 inches; gravelly loam
2R—32 to 42 inches; unweathered bedrock

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s

Hydric soil status: No
Hydrologic soil group: C

Typical Profile
Ap—0 to 6 inches; channery silt loam
Bw, BC—6 to 24 inches; very channery silt loam
2R—24 to 34 inches; unweathered bedrock

290542—Oquaga, Lordstown, and Arnot soils, 35 to 70 percent slopes, very rocky

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Oquaga and similar soils: 25 percent
Lordstown and similar soils: 25 percent
Arnot and similar soils: 25 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 35 to 70 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
A—0 to 2 inches; channery loam
Bw1—2 to 8 inches; channery silt loam
Bw2—8 to 17 inches; very channery silt loam
2R—17 to 27 inches; unweathered bedrock

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 35 to 70 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 3 inches; channery silt loam
Bw1—3 to 6 inches; channery silt loam
Bw2—6 to 19 inches; channery silt loam
BC—19 to 27 inches; channery loam
C—27 to 32 inches; gravelly loam
2R—32 to 42 inches; unweathered bedrock

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 35 to 70 percent
Down-slope shape: Convex
Across-slope shape: Convex

Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
Ap—0 to 6 inches; channery silt loam
Bw, BC—6 to 24 inches; very channery silt loam
2R—24 to 34 inches; unweathered bedrock

290544—Pits, gravel

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Pits, gravel: 85 percent

Description of Pits, Gravel

Setting
Slope: 0 to 3 percent
Aspect (representative): East
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.2 inches)

Interpretive Groups
Hydric soil status: No

Typical Profile
0 to 6 inches; very gravelly coarse sand
6 to 60 inches; very gravelly coarse sand

290546—Raypol silt loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Raypol and similar soils: 80 percent
Dissimilar minor components: 5 percent

Description of Raypol Soil

Soil Classification
Coarse-loamy over sandy or sandy-skeletal, mixed, active, acid, mesic Aeric Endoaquepts

Setting
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Dip
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy over sandy and gravelly glaciofluvial deposits derived mainly from acid sedimentary rocks
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Rare
Frequency of ponding: Occasional
Depth to water table: At the surface to a depth of 12 inches
Drainage class: Poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4w
Hydric soil status: Yes
Hydrologic soil group: B/D

Vegetation
Existing plants: Coastal sweetpepperbush, cinnamon fern, highbush blueberry, Canadian serviceberry, speckled alder, skunk cabbage, false Solomon's seal, swamp azalea, northern spicebush, and common ladyfern

Typical Profile
Ap—0 to 5 inches; silt loam
BA—5 to 10 inches; silt loam
Bw1—10 to 13 inches; very fine sandy loam
Bw2—13 to 21 inches; loam
2C1—21 to 27 inches; stratified loamy fine sand to fine sandy loam
2C2—27 to 32 inches; loamy fine sand
2C3—32 to 40 inches; very gravelly loamy fine sand
2C4—40 to 72 inches; very gravelly sand

Minor Components

Saprists
Percent of map unit: 3 percent
Landform: Swamps, marshes
Aspect (representative): North
Hydric soil status: Yes

Aquents
Percent of map unit: 2 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

290547—Red Hook gravelly silt loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Red Hook and similar soils: 80 percent
Dissimilar minor components: 5 percent

Description of Red Hook Soil

Soil Classification
Coarse-loamy, mixed, superactive, nonacid, mesic Aeric Endoaquepts

Setting
Landform: Terraces, valley trains
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy glaciofluvial deposits
Restrictive feature(s): None within a depth of 60 inches

Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 18 inches
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: No
Hydrologic soil group: B/D

Typical Profile
Ap—0 to 8 inches; gravelly silt loam
BA—8 to 17 inches; gravelly silt loam
Bw1—17 to 25 inches; gravelly silt loam
Bw2—25 to 38 inches; gravelly very fine sandy loam
2Cg—38 to 72 inches; very gravelly very fine sandy loam

Minor Components

Fluvaquents
Percent of map unit: 3 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

Udifluvents
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

290548—Riverhead loam, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Riverhead and similar soils: 85 percent

Description of Riverhead Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Terraces, proglacial deltas
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Convex
Across-slope shape: Convex

Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy glaciofluvial deposits overlying stratified sand and gravel
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
Ap—0 to 7 inches; loam
Bw—7 to 22 inches; fine sandy loam
BC—22 to 28 inches; loamy fine sand
2C—28 to 72 inches; sand

290549—Riverhead loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Riverhead and similar soils: 85 percent

Description of Riverhead Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Terraces, proglacial deltas
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy glaciofluvial deposits overlying stratified sand and gravel

Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
Ap—0 to 7 inches; loam
Bw—7 to 22 inches; fine sandy loam
BC—22 to 28 inches; loamy fine sand
2C—28 to 72 inches; sand

290555—Torull-Gretor complex, 0 to 6 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,695 to 2,495 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 41 to 45 degrees F
Frost-free period: 100 to 125 days

Map Unit Composition

Torull and similar soils: 40 percent
Gretor and similar soils: 40 percent
Dissimilar minor components: 5 percent

Description of Gretor Soil

Soil Classification
Fine-loamy, mixed, active, acid, frigid Aeric Endoaquepts

Setting
Landform: Mountains, hills
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Mountainflank, base slope
Slope: 0 to 6 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Frigid

Properties and Qualities
Parent material: Loamy till derived from sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None

Frequency of ponding: None
Depth to water table: About 6 to 18 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
A—0 to 7 inches; silt loam
Eg—7 to 16 inches; channery very fine sandy loam
Bg—16 to 26 inches; channery clay loam
2R—26 to 36 inches; unweathered bedrock

Description of Torull Soil

Soil Classification
Loamy, mixed, active, acid, frigid Lithic Endoaquepts

Setting
Landform: Benches, depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 0 to 6 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Frigid

Properties and Qualities
Parent material: Loamy till derived mainly from sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 3 to 9 inches (perched)
Drainage class: Poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4w
Hydric soil status: Yes
Hydrologic soil group: D

Typical Profile
Oe—0 to 3 inches; mucky peat
A—3 to 5 inches; silt loam
E—5 to 8 inches; silt loam
Bw—8 to 13 inches; channery silt loam
BC—13 to 18 inches; channery very fine sandy loam
2R—18 to 28 inches; unweathered bedrock

Minor Components

Vly
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

290556—Tunkhannock gravelly loam, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Tunkhannock and similar soils: 85 percent

Description of Tunkhannock Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Terraces, valley trains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
Ap—0 to 6 inches; gravelly loam

Bw1—6 to 8 inches; gravelly loam
Bw2—8 to 18 inches; very gravelly loam
BC—18 to 25 inches; very gravelly sandy loam
2C—25 to 72 inches; very gravelly loamy coarse sand

290562—Tunkhannock and Chenango soils, fan, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 295 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Tunkhannock and similar soils: 50 percent
Chenango and similar soils: 30 percent
Dissimilar minor components: 4 percent

Description of Tunkhannock Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Terraces, valley trains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Depth to water table: About 36 to 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
Ap—0 to 6 inches; gravelly loam
Bw1—6 to 8 inches; gravelly loam
Bw2—8 to 18 inches; very gravelly loam
BC—18 to 25 inches; very gravelly sandy loam
2C—25 to 72 inches; very gravelly loamy coarse sand

Description of Chenango Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Terraces, valley trains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from sandstone, shale, and siltstone
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Depth to water table: About 36 to 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
Ap—0 to 10 inches; gravelly silt loam
Bw1—10 to 21 inches; very gravelly silt loam
Bw2—21 to 25 inches; very gravelly sandy loam
2C—25 to 72 inches; very gravelly loamy coarse sand

Minor Components

Fluvaquents
Percent of map unit: 2 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

Udifluvents
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

290563—Udorthents, graded

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Udorthents and similar soils: 80 percent

Description of Udorthents

Soil Classification
Udorthents

Setting
Slope: 0 to 15 percent
Aspect (representative): East
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 36 to 36 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.3 inches)

Interpretive Groups
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
0 to 4 inches; gravelly sandy loam
4 to 70 inches; very gravelly sandy loam

290565—Unadilla silt loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 95 to 1,400 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Unadilla and similar soils: 80 percent

Description of Unadilla Soil

Soil Classification
Coarse-silty, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Proglacial lake plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Glaciolacustrine deposits, eolian deposits, or old alluvium, comprised mainly of silt and very fine sand
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: High (about 11.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 1
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
Ap—0 to 6 inches; silt loam
AB—6 to 15 inches; silt loam
Bw1—15 to 34 inches; silt loam
Bw2—34 to 39 inches; very fine sandy loam
Bw3—39 to 50 inches; silt loam
2C—50 to 72 inches; loamy sand

290567—Valois very fine sandy loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,600 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Valois and similar soils: 80 percent

Description of Valois Soil

Soil Classification
Coarse-loamy, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: End moraines, lateral moraines, valley sides

Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 1
Available water capacity: Moderate (about 6.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
A—0 to 4 inches; very fine sandy loam
E—4 to 5 inches; very fine sandy loam
Bw1—5 to 15 inches; gravelly silt loam
Bw2—15 to 31 inches; gravelly silt loam
2C—31 to 72 inches; very gravelly fine sandy loam

290568—Valois very fine sandy loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,745 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Valois and similar soils: 80 percent

Description of Valois Soil

Soil Classification
Coarse-loamy, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: End moraines, lateral moraines, valley sides
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent

Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 1
Available water capacity: Moderate (about 6.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
A—0 to 4 inches; very fine sandy loam
E—4 to 5 inches; very fine sandy loam
Bw1—5 to 15 inches; gravelly silt loam
Bw2—15 to 31 inches; gravelly silt loam
2C—31 to 72 inches; very gravelly fine sandy loam

290569—Valois very fine sandy loam, 15 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,600 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Valois and similar soils: 80 percent

Description of Valois Soil

Soil Classification
Coarse-loamy, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: End moraines, lateral moraines, valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 25 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East

Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 1
Available water capacity: Moderate (about 6.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
A—0 to 4 inches; very fine sandy loam
E—4 to 5 inches; very fine sandy loam
Bw1—5 to 15 inches; gravelly silt loam
Bw2—15 to 31 inches; gravelly silt loam
2C—31 to 72 inches; very gravelly fine sandy loam

290570—Valois very fine sandy loam, 25 to 60 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,600 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Valois and similar soils: 80 percent

Description of Valois Soil

Soil Classification
Coarse-loamy, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: End moraines, lateral moraines, valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 25 to 60 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 1
Available water capacity: Moderate (about 6.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6e
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
A—0 to 4 inches; very fine sandy loam
E—4 to 5 inches; very fine sandy loam
Bw1—5 to 15 inches; gravelly silt loam
Bw2—15 to 31 inches; gravelly silt loam
2C—31 to 72 inches; very gravelly fine sandy loam

290576—Volusia channery silt loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Volusia and similar soils: 85 percent

Description of Volusia Soil

Soil Classification
Fine-loamy, mixed, superactive, mesic Aeric Fragiaquepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Base slope
Slope: 3 to 8 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from siltstone, sandstone, and shale or from slate
Restrictive feature(s): Fragipan at a depth of 10 to 22 inches

Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 12 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
Ap—0 to 8 inches; channery silt loam
Bw—8 to 15 inches; channery silt loam
Eg—15 to 22 inches; channery silt loam
Bx—22 to 52 inches; channery silt loam
Cd—52 to 72 inches; very channery silt loam

290578—Wellsboro channery silt loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,095 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Wellsboro and similar soils: 80 percent

Description of Wellsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 3 to 8 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 15 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 19 inches (perched)

Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
Ap—0 to 8 inches; channery silt loam
Bw—8 to 18 inches; channery silt loam
B/E—18 to 25 inches; channery silt loam
Bx1—25 to 38 inches; channery silt loam
Bx2—38 to 52 inches; channery loam
Bx3—52 to 62 inches; very channery loam
Cd—62 to 72 inches; very channery loam

290579—Wellsboro channery silt loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,095 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Wellsboro and similar soils: 80 percent

Description of Wellsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 15 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 19 inches (perched)
Drainage class: Moderately well drained

Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
Ap—0 to 8 inches; channery silt loam
Bw—8 to 18 inches; channery silt loam
B/E—18 to 25 inches; channery silt loam
Bx1—25 to 38 inches; channery silt loam
Bx2—38 to 52 inches; channery loam
Bx3—52 to 62 inches; very channery loam
Cd—62 to 72 inches; very channery loam

290581—Wellsboro and Mardin soils, 2 to 15 percent slopes, very stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Wellsboro and similar soils: 50 percent
Mardin and similar soils: 30 percent
Dissimilar minor components: 5 percent

Description of Wellsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 2 to 15 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 15 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 19 inches (perched)

Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C/D

Vegetation
Existing plants: Sugar maple, sedge, American witchhazel, American beech, and woodfern

Typical Profile
Ap—0 to 8 inches; channery silt loam
Bw—8 to 18 inches; channery silt loam
B/E—18 to 25 inches; channery silt loam
Bx1—25 to 38 inches; channery silt loam
Bx2—38 to 52 inches; channery loam
Bx3—52 to 62 inches; very channery loam
Cd—62 to 72 inches; very channery loam

Description of Mardin Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 2 to 15 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sedimentary rock
Restrictive feature(s): Fragipan at a depth of 15 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 12 to 20 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
A—0 to 5 inches; channery silt loam
Bw1—5 to 14 inches; channery silt loam
Bw2—14 to 23 inches; channery silt loam

E—23 to 26 inches; channery loam
Bx1—26 to 52 inches; very channery loam
Bx2—52 to 72 inches; very channery loam

Minor Components

Volusia
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

290582—Wenonah silt loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 200 to 1,495 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Wenonah and similar soils: 85 percent
Dissimilar minor components: 5 percent

Description of Wenonah Soil

Soil Classification
Coarse-loamy, mixed, superactive, mesic Fluventic Dystrudepts

Setting
Landform: Flood plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Rise
Slope: 0 to 3 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy alluvium derived from glacial drift containing mainly sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Depth to water table: About 36 to 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: High (about 9.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 1

Hydric soil status: No
Hydrologic soil group: B

Typical Profile
Ap—0 to 10 inches; silt loam
Bw1—10 to 20 inches; silt loam
Bw2—20 to 32 inches; very fine sandy loam
C1—32 to 60 inches; fine sandy loam
C2—60 to 72 inches; very fine sandy loam

Minor Components

Fluvaquents
Percent of map unit: 3 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

Udifluvents
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

290592—Carlisle and Palms soils

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 245 to 1,495 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Carlisle and similar soils: 45 percent
Palms and similar soils: 40 percent

Description of Carlisle Soil

Soil Classification
Euic, mesic Typic Haplosaprists

Setting
Landform: Marshes, swamps
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Talf
Slope: 0 to 2 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Deep organic material
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None

Frequency of ponding: Frequent
Depth to water table: At the surface
Drainage class: Very poorly drained
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very high (about 28.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 5w
Hydric soil status: Yes
Hydrologic soil group: A/D

Typical Profile
Oa1—0 to 8 inches; muck
Oa2—8 to 42 inches; muck
Oa3—42 to 65 inches; muck
Oe—65 to 72 inches; mucky peat

Description of Palms Soil

Soil Classification
Loamy, mixed, euic, mesic Terric Haplosaprists

Setting
Landform: Marshes, swamps
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Talf
Slope: 0 to 2 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Organic material over loamy glacial drift
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Depth to water table: At the surface
Drainage class: Very poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 10
Available water capacity: Very high (about 20.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 5w
Hydric soil status: Yes
Hydrologic soil group: B/D

Vegetation
Existing plants: Speckled alder, sedge, canarygrass, redosier dogwood, reedgrass, willow, quaking aspen, and rush

Typical Profile
Oa1—0 to 6 inches; muck
Oa2—6 to 22 inches; muck
Oa3—22 to 36 inches; muck
Cg—36 to 72 inches; gravelly sandy loam

293892—Alden extremely stony soils

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Alden, extremely stony, and similar soils: 75 percent
Dissimilar minor components: 25 percent

Description of Alden, Extremely Stony, Soil

Soil Classification
Fine-loamy, mixed, nonacid, mesic Mollic Haplaquepts

Setting
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Silty mantle of local deposition overlying loamy till
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Depth to water table: At the surface
Drainage class: Very poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 1
Available water capacity: High (about 9.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: Yes
Hydrologic soil group: C/D

Typical Profile
0 to 9 inches; silt loam
9 to 36 inches; silt loam
36 to 60 inches; gravelly fine sandy loam

Minor Components

Canandaigua
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Erie
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: No

Lyons
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Palms
Percent of map unit: 5 percent
Landform: Swamps, marshes
Aspect (representative): North
Hydric soil status: Yes

Wayland
Percent of map unit: 5 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

293895—Arnot-Lordstown complex, sloping

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 750 to 1,800 feet
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Arnot and similar soils: 50 percent
Lordstown and similar soils: 35 percent
Dissimilar minor components: 15 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale

Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 4 inches; channery silt loam
4 to 15 inches; very channery silt loam
15 to 19 inches; unweathered bedrock

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 2 inches; highly decomposed plant material
2 to 8 inches; channery silt loam
8 to 21 inches; channery loam
21 to 37 inches; channery loam
37 to 41 inches; unweathered bedrock

Minor Components

Erie
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Mardin
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Rock outcrop
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: Unranked

Swartswood
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

293896—Arnot-Lordstown complex, moderately steep

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 750 to 1,800 feet
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Arnot and similar soils: 60 percent
Lordstown and similar soils: 30 percent
Dissimilar minor components: 10 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 25 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6e
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 3 inches; channery silt loam
3 to 14 inches; very channery silt loam
14 to 19 inches; unweathered bedrock

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 25 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 2 inches; highly decomposed plant material
2 to 7 inches; channery silt loam
7 to 21 inches; channery loam
21 to 35 inches; channery loam
35 to 43 inches; unweathered bedrock

Minor Components

Erie
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Mardin
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Rock outcrop
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: Unranked

Swartswood
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

293897—Arnot-Lordstown complex, very steep

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 750 to 1,800 feet
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Arnot and similar soils: 65 percent
Lordstown and similar soils: 25 percent
Dissimilar minor components: 10 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 35 to 50 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7e
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 3 inches; channery silt loam
3 to 13 inches; very channery silt loam
13 to 19 inches; unweathered bedrock

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 35 to 50 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 2 inches; highly decomposed plant material
2 to 7 inches; channery silt loam
7 to 21 inches; channery loam
21 to 34 inches; channery loam
34 to 43 inches; unweathered bedrock

Minor Components

Erie
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Mardin
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Rock outcrop
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: Unranked

Swartswood
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

293921—Erie extremely stony soils, gently sloping

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Erie, extremely stony, and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Erie, Extremely Stony, Soil

Soil Classification
Fine-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Base slope
Slope: 3 to 8 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from siltstone, sandstone, shale, and limestone
Restrictive feature(s): Fragipan at a depth of 10 to 21 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 18 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 4 inches; gravelly silt loam
4 to 18 inches; channery silt loam
18 to 50 inches; channery silt loam
50 to 70 inches; channery silt loam

Minor Components

Alden
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Bath
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Mardin
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

293929—Hoosic gravelly sandy loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 95 to 1,095 feet
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Hoosic and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Hoosic Soil

Soil Classification
Sandy-skeletal, mixed, mesic Typic Dystrudepts

Setting
Landform: Terraces, outwash plains, proglacial deltas
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 6 inches; gravelly sandy loam
6 to 28 inches; very gravelly sandy loam
28 to 60 inches; very gravelly sand

Minor Components

Castile
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Chenango
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Fredon
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Oakville
Percent of map unit: 5 percent

Aspect (representative): North
Hydric soil status: No

293930—Hoosic gravelly sandy loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 95 to 1,095 feet
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Hoosic and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Hoosic Soil

Soil Classification
Sandy-skeletal, mixed, mesic Typic Dystrudepts

Setting
Landform: Terraces, outwash plains, proglacial deltas
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Tread
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 5 inches; gravelly sandy loam
5 to 25 inches; very gravelly sandy loam
25 to 60 inches; very gravelly sand

Minor Components

Castile
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Chenango
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Fredon
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Oakville
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

293931—Hoosic gravelly sandy loam, 15 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 95 to 1,095 feet
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Hoosic and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Hoosic Soil

Soil Classification
Sandy-skeletal, mixed, mesic Typic Dystrudepts

Setting
Landform: Terraces, outwash plains, proglacial deltas
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Slope: 15 to 25 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Sandy and gravelly glaciofluvial deposits

Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 3.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 5 inches; gravelly sandy loam
5 to 23 inches; very gravelly sandy loam
23 to 60 inches; very gravelly sand

Minor Components

Castile
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Chenango
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Fredon
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Oakville
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

293932—Lordstown channery silt loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 750 to 1,800 feet
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Lordstown and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 2 inches; highly decomposed plant material
2 to 8 inches; channery silt loam
8 to 21 inches; channery loam
21 to 38 inches; channery loam
38 to 42 inches; unweathered bedrock

Minor Components

Arnot
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Bath
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

293939—Middlebury silt loam

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Middlebury and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Middlebury Soil

Soil Classification
Coarse-loamy, mixed, superactive, mesic Fluvaquentic Eutrudepts

Setting
Landform: Flood plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Talf
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy alluvium predominantly from shale and sandstone with some lime-bearing material
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Depth to water table: About 6 to 24 inches
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w
Hydric soil status: No
Hydrologic soil group: B/D

Typical Profile
0 to 11 inches; silt loam
11 to 42 inches; very fine sandy loam
42 to 60 inches; stratified gravelly sand

Minor Components

Chenango
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Fredon
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Tioga
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wayland
Percent of map unit: 5 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

293943—Otisville gravelly sandy loam, 0 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Otisville and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Otisville Soil

Soil Classification
Sandy-skeletal, mixed, mesic Typic Udorthents

Setting
Landform: Terraces, outwash plains, proglacial deltas
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 0 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 6 inches; gravelly sandy loam
6 to 28 inches; gravelly loamy sand
28 to 60 inches; very gravelly sand

Minor Components

Chenango
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Fredon
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Hoosic
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Oakville
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

293944—Otisville gravelly sandy loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Otisville and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Otisville Soil

Soil Classification
Sandy-skeletal, mixed, mesic Typic Udorthents

Setting
Landform: Terraces, outwash plains, proglacial deltas
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Tread
Slope: 8 to 15 percent
Down-slope shape: Convex

Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 6 inches; gravelly sandy loam
6 to 26 inches; gravelly loamy sand
26 to 60 inches; very gravelly sand

Minor Components

Chenango
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Fredon
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Hoosic
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Oakville
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

293945—Otisville gravelly sandy loam, 15 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Otisville and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Otisville Soil

Soil Classification
Sandy-skeletal, mixed, mesic Typic Udorthents

Setting
Landform: Terraces, outwash plains, proglacial deltas
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Slope: 15 to 25 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 5 inches; gravelly sandy loam
5 to 23 inches; gravelly loamy sand
23 to 60 inches; very gravelly sand

Minor Components

Barbour
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Chenango
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Hoosic
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Oakville
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

293946—Otisville and Hoosic soils, steep

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 95 to 1,095 feet
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Otisville and similar soils: 40 percent
Hoosic and similar soils: 40 percent
Dissimilar minor components: 20 percent

Description of Hoosic Soil

Soil Classification
Sandy-skeletal, mixed, mesic Typic Dystrudepts

Setting
Landform: Terraces, outwash plains, proglacial deltas
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Slope: 25 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 4 inches; gravelly sandy loam
4 to 22 inches; very gravelly sandy loam
22 to 60 inches; very gravelly sand

Description of Otisville Soil

Soil Classification
Sandy-skeletal, mixed, mesic Typic Udorthents

Setting
Landform: Terraces, outwash plains, proglacial deltas
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Slope: 25 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 4 inches; gravelly sandy loam
4 to 20 inches; gravelly loamy sand
20 to 60 inches; very gravelly sand

Minor Components

Barbour
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Chenango
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Oakville
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Suncook
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

293949—Pits, gravel

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Pits: 75 percent
Dissimilar minor components: 25 percent

Description of Pits, Gravel

Setting
Aspect (representative): North
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Hydric soil status: Unranked

Minor Components

Chenango
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Hoosic
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Riverhead
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Scarboro
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Udorthents
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

293961—Rock outcrop-Arnot complex, sloping

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,000 to 1,800 feet
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Rock outcrop: 50 percent
Arnot and similar soils: 35 percent
Dissimilar minor components: 15 percent

Description of Rock Outcrop

Setting
Slope: 8 to 15 percent
Aspect (representative): East
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): Lithic bedrock at the surface
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: Unranked

Typical Profile
0 to 60 inches; unweathered bedrock

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches

Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 4 inches; channery silt loam
4 to 15 inches; very channery silt loam
15 to 19 inches; unweathered bedrock

Minor Components

Lordstown
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

293962—Rock outcrop-Arnot complex, moderately steep

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,000 to 1,800 feet
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Rock outcrop: 50 percent
Arnot and similar soils: 40 percent
Dissimilar minor components: 10 percent

Description of Rock Outcrop

Setting
Slope: 15 to 25 percent
Aspect (representative): East
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): Lithic bedrock at the surface
Frequency of flooding: None

Frequency of ponding: None
Depth to water table: More than 72 inches
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: Unranked

Typical Profile
0 to 60 inches; unweathered bedrock

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 25 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 4 inches; channery silt loam
4 to 14 inches; very channery silt loam
14 to 19 inches; unweathered bedrock

Minor Components

Lordstown
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

293963—Rock outcrop-Arnot complex, very steep

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,000 to 1,800 feet
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Rock outcrop: 60 percent
Arnot and similar soils: 30 percent
Dissimilar minor components: 10 percent

Description of Rock Outcrop

Setting
Slope: 35 to 45 percent
Aspect (representative): East
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): Lithic bedrock at the surface
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: Unranked

Typical Profile
0 to 60 inches; unweathered bedrock

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 35 to 45 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale

Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 4 inches; channery silt loam
4 to 12 inches; very channery silt loam
12 to 19 inches; unweathered bedrock

Minor Components

Lordstown
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

293975—Suncook sandy loam

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Suncook and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Suncook Soil

Soil Classification
Mixed, mesic Typic Udipsamments

Setting
Landform: Flood plains
Landform position (two-dimensional): Summit

Landform position (three-dimensional): Rise
Slope: 0 to 2 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Sandy alluvium derived mainly from varying amounts of sandstone, conglomerate, granite, gneiss, and quartzite
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Depth to water table: About 36 to 72 inches
Drainage class: Excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 4 inches; sandy loam
4 to 37 inches; fine sand
37 to 60 inches; stratified sand to fine sand

Minor Components

Allard
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Barbour
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Middlebury
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Tioga
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

293979—Swartswood and Mardin very stony soils, sloping

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains

Elevation: 600 to 1,800 feet
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Swartswood, very stony, and similar soils: 40 percent
Mardin and similar soils: 40 percent
Dissimilar minor components: 20 percent

Description of Mardin Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sedimentary rock
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 18 to 24 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 3.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 6 inches; gravelly silt loam
6 to 17 inches; gravelly silt loam
17 to 60 inches; channery silt loam

Description of Swartswood, Very Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex

Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from quartzite, conglomerate, and sandstone
Restrictive feature(s): Fragipan at a depth of 20 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 23 to 31 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 3 inches; gravelly loam
3 to 31 inches; gravelly fine sandy loam
31 to 60 inches; gravelly fine sandy loam

Minor Components

Bath
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Erie
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Lordstown
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

293980—Swartswood and Mardin very stony soils, moderately steep

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Swartswood, very stony, and similar soils: 40 percent
Mardin and similar soils: 40 percent
Dissimilar minor components: 20 percent

Description of Mardin Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Side slope
Slope: 15 to 35 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sedimentary rock
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 18 to 24 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 6 inches; gravelly silt loam
6 to 15 inches; gravelly silt loam
15 to 60 inches; channery silt loam

Description of Swartswood, Very Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from quartzite, conglomerate, and sandstone
Restrictive feature(s): Fragipan at a depth of 20 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 23 to 31 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 2 inches; gravelly loam
2 to 28 inches; gravelly fine sandy loam
28 to 60 inches; gravelly fine sandy loam

Minor Components

Bath
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Erie
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Lordstown
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

293981—Swartswood and Mardin very stony soils, very steep

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Swartswood, very stony, and similar soils: 40 percent

Mardin and similar soils: 35 percent
Dissimilar minor components: 25 percent

Description of Swartswood, Very Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 35 to 45 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from quartzite, conglomerate, and sandstone
Restrictive feature(s): Fragipan at a depth of 20 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 23 to 31 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 2 inches; gravelly loam
2 to 26 inches; gravelly fine sandy loam
26 to 60 inches; gravelly fine sandy loam

Description of Mardin Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Side slope
Slope: 35 to 45 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sedimentary rock
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches

Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 18 to 24 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 5 inches; gravelly silt loam
5 to 14 inches; gravelly silt loam
14 to 60 inches; channery silt loam

Minor Components

Bath
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Erie
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Lordstown
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Rock outcrop
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: Unranked

Wurtsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

293983—Udifluvents-Fluvaquents complex, frequently flooded

Map Unit Setting

Major land resource area (MLRA): 144A—New England and Eastern New York Upland, Southern Part; 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 95 to 2,995 feet
Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 215 days

Map Unit Composition

Udifluvents, frequently flooded, and similar soils: 45 percent
Fluvaquents and similar soils: 30 percent
Dissimilar minor components: 25 percent

Description of Udifluvents, Frequently Flooded

Soil Classification
Loamy, mixed, nonacid, mesic Udifluvents

Setting
Landform: Flood plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Talf
Slope: 0 to 5 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Alluvium with a wide range of texture
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Depth to water table: About 24 to 72 inches
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 5w
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 4 inches; gravelly loam
4 to 70 inches; very gravelly sand

Description of Fluvaquents

Soil Classification
Loamy, mixed, nonacid, mesic Fluvaquents

Setting
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Dip
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Alluvium with highly variable texture

Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Frequent
Frequency of ponding: Frequent
Depth to water table: At the surface
Drainage class: Poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 5w
Hydric soil status: Yes
Hydrologic soil group: A/D

Typical Profile
0 to 5 inches; silt loam
5 to 70 inches; very gravelly sand

Minor Components

Canandaigua
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Humaquepts
Percent of map unit: 5 percent
Landform: Swamps, marshes
Aspect (representative): North
Hydric soil status: Yes

Palms
Percent of map unit: 5 percent
Landform: Swamps, marshes
Aspect (representative): North
Hydric soil status: Yes

Wallkill
Percent of map unit: 5 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

Wayland
Percent of map unit: 5 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

295043—Alden silt loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 295 to 1,495 feet
Mean annual precipitation: 41 to 51 inches

Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Alden and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Alden Soil

Soil Classification
Fine-loamy, mixed, nonacid, mesic Mollic Haplaquepts

Setting
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Silty mantle of local deposition overlying loamy till
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Depth to water table: At the surface
Drainage class: Very poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: High (about 9.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 5w
Hydric soil status: Yes
Hydrologic soil group: C/D

Typical Profile
0 to 12 inches; silt loam
12 to 33 inches; silt loam
33 to 60 inches; gravelly silt loam

Minor Components

Morris
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Neversink
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Palms
Percent of map unit: 5 percent

Landform: Swamps, marshes
Aspect (representative): North
Hydric soil status: Yes

Scriba
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

295044—Arnot-Lordstown complex, 0 to 15 percent slopes, very rocky

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 750 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Arnot and similar soils: 40 percent
Lordstown and similar soils: 40 percent
Dissimilar minor components: 20 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 0 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 1 inch; moderately decomposed plant material
1 to 3 inches; channery loam
3 to 17 inches; very channery loam
17 to 21 inches; unweathered bedrock

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 0 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 3 inches; moderately decomposed plant material
3 to 6 inches; silt loam
6 to 20 inches; channery loam
20 to 28 inches; channery loam
28 to 32 inches; unweathered bedrock

Minor Components

Rock outcrop
Percent of map unit: 5 percent
Aspect (representative): North
Slope: 0 to 15 percent
Hydric soil status: Unranked

Swartswood
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Tuller
Percent of map unit: 4 percent

Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

295045—Arnot-Lordstown complex, 15 to 35 percent slopes, very rocky

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 750 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Arnot and similar soils: 40 percent
Lordstown and similar soils: 40 percent
Dissimilar minor components: 20 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 1 inch; moderately decomposed plant material
1 to 3 inches; channery loam
3 to 17 inches; very channery loam
17 to 21 inches; unweathered bedrock

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 3 inches; moderately decomposed plant material
3 to 6 inches; silt loam
6 to 20 inches; channery loam
20 to 28 inches; channery loam
28 to 32 inches; unweathered bedrock

Minor Components

Rock outcrop
Percent of map unit: 5 percent
Aspect (representative): North
Slope: 15 to 35 percent
Hydric soil status: Unranked

Swartswood
Percent of map unit: 4 percent

Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

295046—Arnot-Oquaga complex, 0 to 15 percent slopes, very rocky

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Arnot and similar soils: 45 percent
Oquaga and similar soils: 40 percent
Dissimilar minor components: 15 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 0 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches

Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 1 inch; moderately decomposed plant material
1 to 3 inches; channery loam
3 to 17 inches; very channery loam
17 to 21 inches; unweathered bedrock

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 0 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 2 inches; slightly decomposed plant material
2 to 6 inches; very channery silt loam
6 to 36 inches; very channery loam
36 to 40 inches; unweathered bedrock

Minor Components

Rock outcrop
Percent of map unit: 5 percent
Aspect (representative): North

Slope: 0 to 15 percent
Hydric soil status: Unranked

Tuller
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Cheshire
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295047—Arnot-Oquaga complex, 15 to 35 percent slopes, very rocky

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Arnot and similar soils: 50 percent
Oquaga and similar soils: 35 percent
Dissimilar minor components: 15 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale

Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 1 inch; moderately decomposed plant material
1 to 3 inches; channery loam
3 to 17 inches; very channery loam
17 to 21 inches; unweathered bedrock

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 2 inches; slightly decomposed plant material
2 to 6 inches; very channery silt loam
6 to 36 inches; very channery loam
36 to 40 inches; unweathered bedrock

Minor Components

Rock outcrop
Percent of map unit: 5 percent
Aspect (representative): North
Slope: 15 to 35 percent
Hydric soil status: Unranked

Unnamed soils
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Cheshire
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

295048—Arnot-Rock outcrop complex, 0 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,000 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Arnot and similar soils: 60 percent
Rock outcrop: 25 percent
Dissimilar minor components: 15 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 0 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale

Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 1 inch; moderately decomposed plant material
1 to 3 inches; channery loam
3 to 17 inches; very channery loam
17 to 21 inches; unweathered bedrock

Description of Rock Outcrop

Setting
Slope: 0 to 15 percent
Aspect (representative): East
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): Lithic bedrock at the surface
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: Unranked

Typical Profile
0 to 60 inches; unweathered bedrock

Minor Components

Cheshire
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Tuller
Percent of map unit: 2 percent

Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295049—Arnot-Rock outcrop complex, 15 to 35 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,000 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Arnot and similar soils: 55 percent
Rock outcrop: 30 percent
Dissimilar minor components: 15 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 1 inch; moderately decomposed plant material
1 to 3 inches; channery loam
3 to 17 inches; very channery loam
17 to 21 inches; unweathered bedrock

Description of Rock Outcrop

Setting
Slope: 15 to 35 percent
Aspect (representative): East
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): Lithic bedrock at the surface
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: Unranked

Typical Profile
0 to 60 inches; unweathered bedrock

Minor Components

Cheshire
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Oquaga
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

295050—Arnot-Rock outcrop complex, 35 to 70 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,000 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Arnot and similar soils: 45 percent
Rock outcrop: 40 percent
Dissimilar minor components: 15 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 35 to 70 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 1 inch; moderately decomposed plant material
1 to 3 inches; channery loam
3 to 17 inches; very channery loam
17 to 21 inches; unweathered bedrock

Description of Rock Outcrop

Setting
Slope: 35 to 70 percent

Aspect (representative): East
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): Lithic bedrock at the surface
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: Unranked

Typical Profile
0 to 60 inches; unweathered bedrock

Minor Components

Lordstown
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Oquaga
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

295051—Barbour loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 245 to 1,495 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Barbour and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Barbour Soil

Soil Classification
Coarse-loamy over sandy or sandy-skeletal, mixed, active, mesic Fluventic Dystrudepts

Setting
Landform: Flood plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Rise

Slope: 0 to 3 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy over sandy and gravelly alluvium derived mainly from acid, reddish sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Depth to water table: About 36 to 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 1
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
0 to 8 inches; loam
8 to 30 inches; loam
30 to 60 inches; very gravelly loamy sand

Minor Components

Suncook
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Bash
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Philo
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Pope
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Udifluvents
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Wayland
Percent of map unit: 1 percent
Landform: Flood plains

Aspect (representative): North
Hydric soil status: Yes

295052—Bash silt loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Bash and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Bash Soil

Soil Classification
Coarse-loamy, mixed, semiactive, mesic Fluvaquentic Dystrudepts

Setting
Landform: Flood plains
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Talf
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy alluvium derived from acid, reddish sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Depth to water table: About 6 to 18 inches
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 8.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: No
Hydrologic soil group: B/D

Typical Profile
0 to 5 inches; silt loam
5 to 22 inches; silt loam
22 to 45 inches; fine sandy loam
45 to 60 inches; fine sandy loam

Minor Components

Barbour
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Suncook
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Philo
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Pope
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Udifluvents
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Wayland
Percent of map unit: 1 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

295053—Carlisle muck

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 245 to 1,000 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Carlisle and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Carlisle Soil

Soil Classification
Euic, mesic Typic Haplosaprists

Setting
Landform: Marshes, swamps
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Talf
Slope: 0 to 2 percent
Down-slope shape: Concave

Across-slope shape: Concave
Aspect (representative): North
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Deep organic material
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Depth to water table: At the surface
Drainage class: Very poorly drained
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very high (about 23.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 5w
Hydric soil status: Yes
Hydrologic soil group: A/D

Typical Profile
0 to 60 inches; muck

Minor Components

Palms
Percent of map unit: 5 percent
Landform: Swamps, marshes
Aspect (representative): North
Hydric soil status: Yes

Wayland
Percent of map unit: 5 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

Alden
Percent of map unit: 2 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Neversink
Percent of map unit: 2 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Red Hook
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295054—Carlisle, Palms, and Alden soils, ponded

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains

Elevation: 245 to 1,495 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Carlisle, ponded, and similar soils: 25 percent
Palms, ponded, and similar soils: 25 percent
Alden, ponded, and similar soils: 25 percent
Dissimilar minor components: 25 percent

Description of Alden, Ponded, Soil

Soil Classification
Fine-loamy, mixed, nonacid, mesic Mollic Haplaquepts

Setting
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): North
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Silty mantle of local deposition overlying loamy till
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Depth to water table: At the surface
Drainage class: Very poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: High (about 9.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 5w
Hydric soil status: Yes
Hydrologic soil group: C/D

Typical Profile
0 to 12 inches; silt loam
12 to 33 inches; silt loam
33 to 60 inches; gravelly silt loam

Description of Carlisle, Ponded, Soil

Soil Classification
Euic, mesic Typic Haplosaprists

Setting
Landform: Marshes, swamps
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Talf
Slope: 0 to 2 percent
Down-slope shape: Concave

Across-slope shape: Concave
Aspect (representative): North
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Deep organic material
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Depth to water table: At the surface
Drainage class: Very poorly drained
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very high (about 23.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 5w
Hydric soil status: Yes
Hydrologic soil group: A/D

Typical Profile
0 to 60 inches; muck

Description of Palms, Ponded, Soil

Soil Classification
Loamy, mixed, euic, mesic Terric Haplosaprists

Setting
Landform: Depressions
Landform position (two-dimensional): Toeslope
Slope: 0 to 2 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): North
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Organic material over loamy glacial drift
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Depth to water table: At the surface
Drainage class: Very poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 10
Available water capacity: Very high (about 15.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 5w
Hydric soil status: Yes
Hydrologic soil group: B/D

Typical Profile
0 to 12 inches; muck
12 to 22 inches; muck
22 to 60 inches; loam

Minor Components

Unnamed soils
Percent of map unit: 10 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Fluvaquents
Percent of map unit: 5 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

Udifluvents
Percent of map unit: 5 percent
Landform: Bogs
Aspect (representative): North
Hydric soil status: No

Wayland
Percent of map unit: 5 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

295055—Chenango gravelly loam, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Chenango and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Chenango Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Terraces, valley trains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from sandstone, shale, and siltstone
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 4 inches; gravelly loam
4 to 31 inches; very gravelly loam
31 to 60 inches; very gravelly loamy coarse sand

Minor Components

Pompton
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Red Hook
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Otisville
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295056—Chenango gravelly loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Chenango and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Chenango Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Terraces, valley trains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from sandstone, shale, and siltstone
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 4 inches; gravelly loam
4 to 31 inches; very gravelly loam
31 to 60 inches; very gravelly loamy coarse sand

Minor Components

Pompton
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Red Hook
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Otisville
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295057—Chenango gravelly loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Chenango and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Chenango Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Terraces, valley trains
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Tread
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from sandstone, shale, and siltstone
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 4 inches; gravelly loam
4 to 31 inches; very gravelly loam
31 to 60 inches; very gravelly loamy coarse sand

Minor Components

Otisville
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Pompton
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

295059—Cheshire channery loam, 3 to 8 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Cheshire, stony, and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Cheshire, Stony, Soil

Soil Classification
Coarse-loamy, mixed, semiactive, mesic Typic Dystrudepts

Setting
Landform: Hills, till plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mostly from reddish sandstone, shale, and conglomerate
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 8.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 5 inches; channery loam
5 to 36 inches; channery loam
36 to 60 inches; channery loam

Minor Components

Lackawanna
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Lordstown
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Oquaga
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295060—Cheshire channery loam, 8 to 15 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Cheshire, stony, and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Cheshire, Stony, Soil

Soil Classification
Coarse-loamy, mixed, semiactive, mesic Typic Dystrudepts

Setting
Landform: Till plains, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mostly from reddish sandstone, shale, and conglomerate
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 8.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 5 inches; channery loam
5 to 36 inches; channery loam
36 to 60 inches; channery loam

Minor Components

Lackawanna
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Lordstown
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Oquaga
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295061—Cheshire channery loam, 15 to 25 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Cheshire, stony, and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Cheshire, Stony, Soil

Soil Classification
Coarse-loamy, mixed, semiactive, mesic Typic Dystrudepts

Setting
Landform: Till plains, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 25 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mostly from reddish sandstone, shale, and conglomerate
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 8.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 5 inches; channery loam
5 to 36 inches; channery loam
36 to 60 inches; channery loam

Minor Components

Lackawanna
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Lordstown
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Oquaga
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295062—Cheshire channery loam, 25 to 35 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Cheshire, stony, and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Cheshire, Stony, Soil

Soil Classification
Coarse-loamy, mixed, semiactive, mesic Typic Dystrudepts

Setting
Landform: Till plains, hills

Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 25 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mostly from reddish sandstone, shale, and conglomerate
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 8.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 5 inches; channery loam
5 to 36 inches; channery loam
36 to 60 inches; channery loam

Minor Components

Lackawanna
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Lordstown
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Oquaga
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295063—Cheshire channery loam, 35 to 60 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Cheshire, stony, and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Cheshire, Stony, Soil

Soil Classification
Coarse-loamy, mixed, semiactive, mesic Typic Dystrudepts

Setting
Landform: Till plains, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 35 to 60 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mostly from reddish sandstone, shale, and conglomerate
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 8.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 5 inches; channery loam
5 to 36 inches; channery loam
36 to 60 inches; channery loam

Minor Components

Lackawanna
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Lordstown
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Oquaga
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295069—Fluvaquents-Udifluvents complex, frequently flooded

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 95 to 2,995 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Fluvaquents and similar soils: 45 percent
Udifluvents, frequently flooded, and similar soils: 40 percent
Dissimilar minor components: 15 percent

Description of Fluvaquents

Soil Classification
Fluvaquents

Setting
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Dip
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Alluvium with highly variable texture
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Frequent

Frequency of ponding: Occasional
Depth to water table: At the surface
Drainage class: Poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 5w
Hydric soil status: Yes
Hydrologic soil group: B/D

Typical Profile
0 to 5 inches; gravelly silt loam
5 to 70 inches; very gravelly sandy loam

Description of Udifluvents, Frequently Flooded

Soil Classification
Udifluvents

Setting
Landform: Flood plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Talf
Slope: 0 to 5 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Alluvium with a wide range of texture
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Depth to water table: About 24 to 72 inches
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 5w
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 4 inches; gravelly silt loam
4 to 70 inches; very gravelly sandy loam

Minor Components

Suncook
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Pope
Percent of map unit: 3 percent

Aspect (representative): North
Hydric soil status: No

Barbour
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Bash
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Philo
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Wayland
Percent of map unit: 2 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

295074—Lackawanna channery loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,095 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Lackawanna and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Lackawanna Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale

Restrictive feature(s): Fragipan at a depth of 17 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 16 to 35 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 2 inches; moderately decomposed plant material
2 to 5 inches; channery loam
5 to 34 inches; channery loam
34 to 60 inches; channery loam

Minor Components

Cheshire
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Oquaga
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Morris
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295075—Lackawanna channery loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains

Elevation: 1,095 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Lackawanna and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Lackawanna Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 17 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 16 to 35 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 2 inches; moderately decomposed plant material
2 to 5 inches; channery loam
5 to 34 inches; channery loam
34 to 60 inches; channery loam

Minor Components

Cheshire
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Oquaga
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Morris
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295076—Lackawanna channery loam, 15 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,095 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Lackawanna and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Lackawanna Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 25 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 17 to 36 inches
Frequency of flooding: None
Frequency of ponding: None

Depth to water table: About 16 to 35 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 2 inches; moderately decomposed plant material
2 to 5 inches; channery loam
5 to 34 inches; channery loam
34 to 60 inches; channery loam

Minor Components

Cheshire
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Oquaga
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Morris
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295082—Lordstown silt loam, 3 to 8 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 750 to 1,800 feet
Mean annual precipitation: 41 to 51 inches

Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Lordstown, stony, and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Lordstown, Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 3 inches; moderately decomposed plant material
3 to 6 inches; silt loam
6 to 20 inches; channery loam
20 to 28 inches; channery loam
28 to 32 inches; unweathered bedrock

Minor Components

Arnot
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status:

Wellsboro
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295083—Lordstown-Arnot complex, 8 to 15 percent slopes, very stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 750 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Lordstown, very stony, and similar soils: 55 percent
Arnot, very stony, and similar soils: 25 percent
Dissimilar minor components: 18 percent

Description of Lordstown, Very Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 3 inches; moderately decomposed plant material
3 to 6 inches; silt loam
6 to 20 inches; channery loam
20 to 28 inches; channery loam
28 to 32 inches; unweathered bedrock

Description of Arnot, Very Stony, Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 1 inch; moderately decomposed plant material
1 to 3 inches; channery loam

3 to 17 inches; very channery loam
17 to 21 inches; unweathered bedrock

Minor Components

Swartswood
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295092—Morris loam, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Morris and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Morris Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Base slope
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Linear

Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 10 to 22 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 18 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 6 inches; loam
6 to 20 inches; gravelly loam
20 to 60 inches; gravelly loam

Minor Components

Alden
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Wellsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Scriba
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Neversink
Percent of map unit: 1 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Unnamed soils
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status:

Wurtsboro
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295093—Morris loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Morris and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Morris Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Base slope
Slope: 3 to 8 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 10 to 22 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 18 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 6 inches; loam
6 to 20 inches; gravelly loam
20 to 60 inches; gravelly loam

Minor Components

Alden
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Wellsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Scriba
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Neversink
Percent of map unit: 1 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Unnamed soils
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status:

Wurtsboro
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295094—Morris loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Morris and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Morris Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 8 to 15 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 10 to 22 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 18 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 6 inches; loam
6 to 20 inches; gravelly loam
20 to 60 inches; gravelly loam

Minor Components

Scriba
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status:

Wurtsboro
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295095—Neversink loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Neversink and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Neversink Soil

Soil Classification
Coarse-loamy, mixed, active, acid, mesic Aeric Epiaquepts

Setting
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Acid, loamy till derived from sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: At the surface to a depth of 6 inches
Drainage class: Poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4w
Hydric soil status: Yes
Hydrologic soil group: C/D

Typical Profile
0 to 2 inches; slightly decomposed plant material
2 to 7 inches; loam
7 to 23 inches; gravelly loam
23 to 60 inches; gravelly sandy loam

Minor Components

Alden
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Scriba
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 4 percent
Landform: Depressions

Aspect (representative): North
Hydric soil status: Yes

Wallington
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Morris
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295101—Oquaga very channery silt loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Oquaga and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale

Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 2 inches; slightly decomposed plant material
2 to 6 inches; very channery silt loam
6 to 36 inches; very channery loam
36 to 40 inches; unweathered bedrock

Minor Components

Arnot
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Cheshire
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Tuller
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295102—Oquaga-Arnot complex, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Oquaga and similar soils: 50 percent
Arnot and similar soils: 35 percent
Dissimilar minor components: 15 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 2 inches; slightly decomposed plant material
2 to 6 inches; very channery silt loam
6 to 36 inches; very channery loam
36 to 40 inches; unweathered bedrock

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East

Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 1 inch; moderately decomposed plant material
1 to 3 inches; channery loam
3 to 17 inches; very channery loam
17 to 21 inches; unweathered bedrock

Minor Components

Lackawanna
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Cheshire
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295103—Oquaga-Arnot complex, 15 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Oquaga and similar soils: 50 percent
Arnot and similar soils: 35 percent
Dissimilar minor components: 15 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 25 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 2 inches; slightly decomposed plant material
2 to 6 inches; very channery silt loam
6 to 36 inches; very channery loam
36 to 40 inches; unweathered bedrock

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 25 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East

Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6e
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 1 inch; moderately decomposed plant material
1 to 3 inches; channery loam
3 to 17 inches; very channery loam
17 to 21 inches; unweathered bedrock

Minor Components

Cheshire
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295105—Otisville gravelly loamy coarse sand, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Otisville and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Otisville Soil

Soil Classification
Sandy-skeletal, mixed, mesic Typic Udorthents

Setting
Landform: Terraces, outwash plains, proglacial deltas
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 9 inches; gravelly loamy coarse sand
9 to 33 inches; extremely gravelly loamy coarse sand
33 to 60 inches; stratified extremely gravelly sand

Minor Components

Pompton
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Red Hook
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Udifluvents
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Fluvaquents
Percent of map unit: 2 percent

Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

295106—Otisville gravelly loamy coarse sand, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Otisville and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Otisville Soil

Soil Classification
Sandy-skeletal, mixed, mesic Typic Udorthents

Setting
Landform: Terraces, outwash plains, proglacial deltas
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 9 inches; gravelly loamy coarse sand
9 to 33 inches; extremely gravelly loamy coarse sand
33 to 60 inches; stratified extremely gravelly sand

Minor Components

Pompton
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Red Hook
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Udifluvents
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Fluvaquents
Percent of map unit: 2 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

295107—Otisville gravelly loamy coarse sand, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Otisville and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Otisville Soil

Soil Classification
Sandy-skeletal, mixed, mesic Typic Udorthents

Setting
Landform: Terraces, outwash plains, proglacial deltas
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Tread
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Sandy and gravelly glaciofluvial deposits

Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 9 inches; gravelly loamy coarse sand
9 to 33 inches; extremely gravelly loamy coarse sand
33 to 60 inches; stratified extremely gravelly sand

Minor Components

Pompton
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Red Hook
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

295109—Palms muck

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 245 to 1,495 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Palms and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Palms Soil

Soil Classification
Loamy, mixed, euic, mesic Terric Haplosaprists

Setting
Landform: Marshes, swamps
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Talf
Slope: 0 to 2 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): North
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Organic material over loamy glacial drift
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Depth to water table: At the surface
Drainage class: Very poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 10
Available water capacity: Very high (about 15.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 5w
Hydric soil status: Yes
Hydrologic soil group: B/D

Typical Profile
0 to 12 inches; muck
12 to 22 inches; muck
22 to 60 inches; loam

Minor Components

Alden
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Carlisle
Percent of map unit: 5 percent
Landform: Swamps, marshes
Aspect (representative): North
Hydric soil status: Yes

Wayland
Percent of map unit: 3 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

Neversink
Percent of map unit: 2 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

295110—Philo silt loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 2,995 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Philo and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Philo Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Fluvaquentic Dystrudepts

Setting
Landform: Flood plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Talf
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy alluvium over stratified sand and gravel
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Depth to water table: About 14 to 24 inches
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w
Hydric soil status: No
Hydrologic soil group: B/D

Typical Profile
0 to 10 inches; silt loam
10 to 38 inches; silt loam
38 to 45 inches; fine sandy loam
45 to 60 inches; loamy fine sand

Minor Components

Pope
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Suncook
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Wayland
Percent of map unit: 1 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

295111—Pits, gravel

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Pits: 80 percent
Dissimilar minor components: 20 percent

Description of Pits, Gravel

Setting
Slope: 0 to 50 percent
Aspect (representative): East
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Hydric soil status: Unranked

Minor Components

Otisville
Percent of map unit: 8 percent
Aspect (representative): North
Hydric soil status: No

Tunkhannock
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Udorthents
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status:

295112—Pits, quarry

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Pits: 80 percent
Dissimilar minor components: 20 percent

Description of Pits, Quarry

Setting
Slope: 0 to 70 percent
Aspect (representative): East
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Hydric soil status: Unranked

Minor Components

Arnot
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Hawksnest
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Rock outcrop
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: Unranked

Udorthents
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

295113—Pompton gravelly fine sandy loam, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Pompton and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Pompton Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aquic Dystrudepts

Setting
Landform: Terraces, valley trains
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy over sandy and gravelly glaciofluvial deposits
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 24 inches
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w
Hydric soil status: No
Hydrologic soil group: A/D

Typical Profile
0 to 10 inches; gravelly fine sandy loam
10 to 30 inches; gravelly sandy loam
30 to 60 inches; stratified gravelly sand

Minor Components

Red Hook
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Chenango
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Philo
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Raynham
Percent of map unit: 2 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Riverhead
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Bash
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Tunkhannock
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295114—Pompton gravelly fine sandy loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Pompton and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Pompton Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aquic Dystrudepts

Setting
Landform: Terraces, valley trains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 3 to 8 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy over sandy and gravelly glaciofluvial deposits
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 24 inches
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w
Hydric soil status: No
Hydrologic soil group: A/D

Typical Profile
0 to 10 inches; gravelly fine sandy loam
10 to 30 inches; gravelly sandy loam
30 to 60 inches; stratified gravelly sand

Minor Components

Red Hook
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Chenango
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Philo
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Raynham
Percent of map unit: 2 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Riverhead
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Bash
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Tunkhannock
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295115—Pope silt loam, occasionally flooded

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Pope, occasionally flooded, and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Pope, Occasionally Flooded, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Fluventic Dystrudepts

Setting
Landform: Flood plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Rise
Slope: 0 to 3 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy alluvium derived from acid sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 8.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
0 to 3 inches; silt loam
3 to 32 inches; silt loam
32 to 60 inches; fine sandy loam

Minor Components

Philo
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Suncook
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Barbour
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Wayland
Percent of map unit: 1 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

295116—Pope very fine sandy loam, rarely flooded

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Pope, rarely flooded, and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Pope, Rarely Flooded, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Fluventic Dystrudepts

Setting
Landform: Flood plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Rise
Slope: 0 to 3 percent
Down-slope shape: Convex

Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy alluvium derived from acid sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 8.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 1
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
0 to 6 inches; very fine sandy loam
6 to 31 inches; loam
31 to 60 inches; fine sandy loam

Minor Components

Riverhead
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Tunkhannock
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Scio
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Raynham
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: Yes

295117—Raynham silt loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 50 to 500 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Raynham, poorly drained, and similar soils: 50 percent
Raynham, somewhat poorly drained, and similar soils: 30 percent
Dissimilar minor components: 20 percent

Description of Raynham, Poorly Drained, Soil

Soil Classification
Coarse-silty, mixed, active, nonacid, mesic Aeric Epiaquepts

Setting
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Glaciolacustrine, eolian, or old alluvial deposits, comprised mainly of silt and very fine sand
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 12 inches
Drainage class: Poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 3
Available water capacity: Very high (about 12.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: Yes
Hydrologic soil group: C/D

Typical Profile
0 to 8 inches; silt loam
8 to 30 inches; silt loam
30 to 62 inches; silt loam

Description of Raynham, Somewhat Poorly Drained, Soil

Soil Classification
Coarse-silty, mixed, active, nonacid, mesic Aeric Epiaquepts

Setting
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Glaciolacustrine, eolian, or old alluvial deposits, comprised mainly of silt and very fine sand
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 24 inches
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 3
Available water capacity: Very high (about 12.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
0 to 8 inches; silt loam
8 to 30 inches; silt loam
30 to 62 inches; silt loam

Minor Components

Scio
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wallington
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Chenango
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Fluvaquents
Percent of map unit: 2 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

Philo
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Riverhead
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status:

Bash
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295118—Red Hook sandy loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Red Hook and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Red Hook Soil

Soil Classification
Coarse-loamy, mixed, superactive, nonacid, mesic Aeric Haplaquepts

Setting
Landform: Terraces, valley trains
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy glaciofluvial deposits
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 4 to 12 inches
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: No
Hydrologic soil group: B/D

Typical Profile
0 to 7 inches; sandy loam
7 to 38 inches; loam
38 to 60 inches; very gravelly coarse sandy loam

Minor Components

Scio
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wallington
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Chenango
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Philo
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Fluvaquents
Percent of map unit: 2 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

Riverhead
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Bash
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295119—Riverhead sandy loam, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Riverhead and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Riverhead Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Terraces, proglacial deltas

Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy glaciofluvial deposits overlying stratified sand and gravel
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 6 inches; sandy loam
6 to 20 inches; sandy loam
20 to 30 inches; gravelly sandy loam
30 to 60 inches; very gravelly loamy sand

Minor Components

Pompton
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Chenango
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Tunkhannock
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Suncook
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Unadilla
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295120—Riverhead sandy loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Riverhead and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Riverhead Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Terraces, proglacial deltas
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy glaciofluvial deposits overlying stratified sand and gravel
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 6 inches; sandy loam
6 to 20 inches; sandy loam
20 to 30 inches; gravelly sandy loam
30 to 60 inches; very gravelly loamy sand

Minor Components

Pompton
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Chenango
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Tunkhannock
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Suncook
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Unadilla
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295121—Riverhead sandy loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Riverhead and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Riverhead Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Terraces, proglacial deltas
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Tread
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex

Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy glaciofluvial deposits overlying stratified sand and gravel
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 6 inches; sandy loam
6 to 20 inches; sandy loam
20 to 30 inches; gravelly sandy loam
30 to 60 inches; very gravelly loamy sand

Minor Components

Otisville
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Chenango
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Tunkhannock
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Unadilla
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295122—Scio silt loam, 2 to 6 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains

Elevation: 95 to 1,000 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Scio and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Scio Soil

Soil Classification
Coarse-silty, mixed, active, mesic Aquic Dystrudepts

Setting
Landform: Proglacial lake plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 2 to 6 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Glaciolacustrine deposits, eolian deposits, or old alluvium, comprised mainly of silt and very fine sand
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 14 to 22 inches
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 1
Available water capacity: Moderate (about 9.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: B/D

Typical Profile
0 to 6 inches; silt loam
6 to 29 inches; silt loam
29 to 60 inches; silt loam

Minor Components

Alden
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Raynham
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: Yes

Red Hook
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wallington
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

295123—Scriba loam, 0 to 3 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Scriba, stony, and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Scriba, Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landform: Till plains, drumlins
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till dominated by sandstone with lesser amounts of limestone and shale
Restrictive feature(s): Fragipan at a depth of 12 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 18 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 2 inches; slightly decomposed plant material
2 to 8 inches; loam
8 to 20 inches; channery loam
20 to 60 inches; channery loam

Minor Components

Morris
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Neversink
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Wallington
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

295124—Scriba loam, 3 to 8 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Scriba, stony, and similar soils: 75 percent
Dissimilar minor components: 25 percent

Description of Scriba, Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landform: Till plains, drumlins
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 3 to 8 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till dominated by sandstone with lesser amounts of limestone and shale
Restrictive feature(s): Fragipan at a depth of 12 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 18 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 2 inches; slightly decomposed plant material
2 to 8 inches; loam
8 to 20 inches; channery loam
20 to 60 inches; channery loam

Minor Components

Morris
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Neversink
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Wallington
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

295125—Scriba and Morris loams, gently sloping, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains

Elevation: 600 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Scriba, extremely stony, and similar soils: 40 percent
Morris, extremely stony, and similar soils: 40 percent
Dissimilar minor components: 20 percent

Description of Morris, Extremely Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Base slope
Slope: 2 to 8 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 10 to 22 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 18 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 6 inches; loam
6 to 20 inches; gravelly loam
20 to 60 inches; gravelly loam

Description of Scriba, Extremely Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landform: Till plains, drumlins
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 2 to 8 percent

Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till dominated by sandstone with lesser amounts of limestone and shale
Restrictive feature(s): Fragipan at a depth of 12 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 18 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 2 inches; slightly decomposed plant material
2 to 8 inches; loam
8 to 20 inches; channery loam
20 to 60 inches; channery loam

Minor Components

Neversink
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Wurtsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status:

Alden
Percent of map unit: 3 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Wellsboro
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

295126—Suncook fine sandy loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Suncook and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Suncook Soil

Soil Classification
Mixed, mesic Typic Udipsamments

Setting
Landform: Flood plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Rise
Slope: 0 to 2 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Sandy alluvium derived mainly from varying amounts of sandstone, conglomerate, granite, gneiss, and quartzite
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Depth to water table: About 36 to 72 inches
Drainage class: Excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 8 inches; fine sandy loam
8 to 44 inches; loamy sand
44 to 60 inches; stratified extremely gravelly loamy coarse sand

Minor Components

Bash
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Philo
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Barbour
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Pope
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Tunkhannock
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Fluvaquents
Percent of map unit: 1 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

295129—Swartswood gravelly loam, 3 to 8 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,000 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Swartswood and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Swartswood Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from quartzite, conglomerate, and sandstone
Restrictive feature(s): Fragipan at a depth of 22 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 18 to 26 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
0 to 1 inch; gravelly loam
1 to 26 inches; gravelly loam
26 to 60 inches; gravelly sandy loam

Minor Components

Cheshire
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Scriba
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295130—Swartswood gravelly loam, 8 to 15 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains

Elevation: 1,000 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Swartswood and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Swartswood Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from quartzite, conglomerate, and sandstone
Restrictive feature(s): Fragipan at a depth of 22 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 18 to 26 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
0 to 1 inch; gravelly loam
1 to 26 inches; gravelly loam
26 to 60 inches; gravelly sandy loam

Minor Components

Cheshire
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Scriba
Percent of map unit: 2 percent

Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295131—Swartswood gravelly loam, 15 to 25 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,000 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Swartswood and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Swartswood Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 25 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from quartzite, conglomerate, and sandstone
Restrictive feature(s): Fragipan at a depth of 22 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 18 to 26 inches (perched)
Drainage class: Well drained

Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
0 to 1 inch; gravelly loam
1 to 26 inches; gravelly loam
26 to 60 inches; gravelly sandy loam

Minor Components

Cheshire
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Lordstown
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Wellsboro
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295132—Swartswood and Lackawanna soils, 25 to 35 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,000 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Swartswood, stony, and similar soils: 40 percent

Lackawanna, stony, and similar soils: 40 percent
Dissimilar minor components: 20 percent

Description of Lackawanna, Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 25 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 17 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 16 to 35 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 2 inches; moderately decomposed plant material
2 to 5 inches; channery loam
5 to 34 inches; channery loam
34 to 60 inches; channery loam

Description of Swartswood, Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 25 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from quartzite, conglomerate, and sandstone

Restrictive feature(s): Fragipan at a depth of 22 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 18 to 26 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6e
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
0 to 2 inches; slightly decomposed plant material
2 to 3 inches; gravelly loam
3 to 28 inches; gravelly loam
28 to 60 inches; gravelly sandy loam

Minor Components

Wellsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Cheshire
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Lordstown
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Oquaga
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295133—Swartswood and Lackawanna soils, steep, very stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains

Elevation: 1,000 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Swartswood, very stony, and similar soils: 40 percent
Lackawanna, very stony, and similar soils: 40 percent
Dissimilar minor components: 20 percent

Description of Lackawanna, Very Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 17 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 16 to 35 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 2 inches; moderately decomposed plant material
2 to 5 inches; channery loam
5 to 34 inches; channery loam
34 to 60 inches; channery loam

Description of Swartswood, Very Stony Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 35 percent
Down-slope shape: Convex

Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from quartzite, conglomerate, and sandstone
Restrictive feature(s): Fragipan at a depth of 22 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 18 to 26 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
0 to 2 inches; slightly decomposed plant material
2 to 3 inches; gravelly loam
3 to 28 inches; gravelly loam
28 to 60 inches; gravelly sandy loam

Minor Components

Wellsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Cheshire
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Lordstown
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Oquaga
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295134—Swartswood and Lackawanna soils, very steep, very stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,000 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Swartswood, very stony, and similar soils: 40 percent
Lackawanna, very stony, and similar soils: 40 percent
Dissimilar minor components: 20 percent

Description of Lackawanna, Very Stony Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 35 to 50 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 17 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 16 to 35 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 2 inches; moderately decomposed plant material
2 to 5 inches; channery loam
5 to 34 inches; channery loam
34 to 60 inches; channery loam

Description of Swartswood, Very Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 35 to 50 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from quartzite, conglomerate, and sandstone
Restrictive feature(s): Fragipan at a depth of 22 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 18 to 26 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
0 to 2 inches; slightly decomposed plant material
2 to 3 inches; gravelly loam
3 to 28 inches; gravelly loam
28 to 60 inches; gravelly sandy loam

Minor Components

Oquaga
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status:

Cheshire
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Arnot
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Lordstown
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295136—Tuller-Rock outcrop complex, 1 to 5 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Tuller, somewhat poorly drained, and similar soils: 40 percent
Tuller, poorly drained, and similar soils: 20 percent
Rock outcrop: 20 percent
Dissimilar minor components: 20 percent

Description of Tuller, Somewhat Poorly Drained, Soil

Soil Classification
Loamy, mixed, active, acid, mesic Lithic Endoaquepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Base slope
Slope: 1 to 5 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 12 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 1 inch; slightly decomposed plant material

1 to 5 inches; very fine sandy loam
5 to 12 inches; flaggy fine sandy loam
12 to 16 inches; unweathered bedrock

Description of Rock Outcrop

Setting
Slope: 1 to 5 percent
Aspect (representative): East
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): Lithic bedrock at the surface
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: Unranked

Typical Profile
0 to 60 inches; unweathered bedrock

Description of Tuller, Poorly Drained, Soil

Soil Classification
Loamy, mixed, active, acid, mesic Lithic Endoaquepts

Setting
Landform: Benches, ridges, hills
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Base slope
Slope: 1 to 5 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 12 inches (perched)
Drainage class: Poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: Yes
Hydrologic soil group: D

Typical Profile
0 to 1 inch; slightly decomposed plant material
1 to 5 inches; very fine sandy loam

5 to 12 inches; flaggy fine sandy loam
12 to 16 inches; unweathered bedrock

Minor Components

Arnot
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Lordstown
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Alden
Percent of map unit: 2 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Morris
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Neversink
Percent of map unit: 2 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Oquaga
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Scriba
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295137—Tunkhannock gravelly loam, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 2,000 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Tunkhannock and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Tunkhannock Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Terraces, valley trains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 6 inches; gravelly loam
6 to 38 inches; very gravelly very fine sandy loam
38 to 60 inches; stratified very gravelly sand

Minor Components

Barbour
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Suncook
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

295138—Tunkhannock gravelly loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 2,000 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Tunkhannock and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Tunkhannock Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Terraces, valley trains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 6 inches; gravelly loam
6 to 38 inches; very gravelly very fine sandy loam
38 to 60 inches; stratified very gravelly sand

Minor Components

Barbour
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Suncook
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

295139—Tunkhannock gravelly loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 2,000 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Tunkhannock and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Tunkhannock Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Terraces, valley trains
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Tread
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 6 inches; gravelly loam
6 to 38 inches; very gravelly very fine sandy loam
38 to 60 inches; stratified very gravelly sand

Minor Components

Unnamed soils
Percent of map unit: 10 percent
Aspect (representative): North
Hydric soil status: No

Cheshire
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

295140—Tunkhannock gravelly loam, 15 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 2,000 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Tunkhannock and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Tunkhannock Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Terraces, valley trains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Slope: 15 to 25 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained

Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 6 inches; gravelly loam
6 to 38 inches; very gravelly very fine sandy loam
38 to 60 inches; stratified very gravelly sand

Minor Components

Cheshire
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Otisville
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

295141—Tunkhannock and Otisville soils, steep

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 2,000 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Tunkhannock and similar soils: 45 percent
Otisville and similar soils: 40 percent
Dissimilar minor components: 15 percent

Description of Tunkhannock Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Terraces, valley trains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Slope: 25 to 35 percent
Down-slope shape: Convex

Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 6 inches; gravelly loam
6 to 38 inches; very gravelly very fine sandy loam
38 to 60 inches; stratified very gravelly sand

Description of Otisville Soil

Soil Classification
Sandy-skeletal, mixed, mesic Typic Udorthents

Setting
Landform: Terraces, outwash plains, proglacial deltas
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Slope: 25 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 9 inches; gravelly loamy coarse sand
9 to 33 inches; extremely gravelly loamy coarse sand
33 to 60 inches; stratified extremely gravelly sand

Minor Components

Cheshire
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

295142—Tunkhannock and Otisville soils, very steep

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 2,000 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Tunkhannock and similar soils: 45 percent
Otisville and similar soils: 40 percent
Dissimilar minor components: 15 percent

Description of Tunkhannock Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Terraces, valley trains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Slope: 35 to 50 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches

Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 6 inches; gravelly loam
6 to 38 inches; very gravelly very fine sandy loam
38 to 60 inches; stratified very gravelly sand

Description of Otisville Soil

Soil Classification
Sandy-skeletal, mixed, mesic Typic Udorthents

Setting
Landform: Terraces, outwash plains, proglacial deltas
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Slope: 35 to 50 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 9 inches; gravelly loamy coarse sand
9 to 33 inches; extremely gravelly loamy coarse sand
33 to 60 inches; stratified extremely gravelly sand

Minor Components

Cheshire
Percent of map unit: 5 percent

Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

295143—Udorthents, smoothed

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Udorthents and similar soils: 75 percent
Dissimilar minor components: 25 percent

Description of Udorthents

Soil Classification
Udorthents

Setting
Slope: 0 to 15 percent
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 24 to 72 inches
Drainage class: Moderately well drained
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No

Minor Components

Alden
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): North
Hydric soil status: Yes

Chenango
Percent of map unit: 5 percent

Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Onteora
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Pits, gravel
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: Unranked

295144—Unadilla silt loam, 0 to 2 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Unadilla and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Unadilla Soil

Soil Classification
Coarse-silty, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Proglacial lake plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 0 to 2 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Glaciolacustrine deposits, eolian deposits, or old alluvium, comprised mainly of silt and very fine sand
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained

Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 1
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
0 to 5 inches; silt loam
5 to 29 inches; silt loam
29 to 42 inches; very fine sandy loam
42 to 60 inches; very fine sandy loam

Minor Components

Scio
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Raynham
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: Yes

Barbour
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Pope
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status:

Suncook
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295145—Unadilla silt loam, 2 to 6 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Unadilla and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Unadilla Soil

Soil Classification
Coarse-silty, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Proglacial lake plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Slope: 2 to 6 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Glaciolacustrine deposits, eolian deposits, or old alluvium, comprised mainly of silt and very fine sand
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
0 to 5 inches; silt loam
5 to 29 inches; silt loam
29 to 42 inches; very fine sandy loam
42 to 60 inches; very fine sandy loam

Minor Components

Scio
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Raynham
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: Yes

Barbour
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Pope
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status:

Suncook
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295146—Valois gravelly sandy loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,745 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Valois and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Valois Soil

Soil Classification
Coarse-loamy, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: End moraines, lateral moraines, valley sides
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 1
Available water capacity: Low (about 5.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
0 to 1 inch; moderately decomposed plant material
1 to 4 inches; gravelly sandy loam
4 to 26 inches; gravelly sandy loam
26 to 37 inches; gravelly sandy loam
37 to 60 inches; gravelly sandy loam

Minor Components

Chenango
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Riverhead
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status:

Wurtsboro
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Lordstown
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295147—Valois gravelly sandy loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,745 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Valois and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Valois Soil

Soil Classification
Coarse-loamy, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: End moraines, lateral moraines, valley sides
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 1
Available water capacity: Low (about 5.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
0 to 1 inch; moderately decomposed plant material
1 to 4 inches; gravelly sandy loam
4 to 26 inches; gravelly sandy loam
26 to 37 inches; gravelly sandy loam
37 to 60 inches; gravelly sandy loam

Minor Components

Chenango
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Riverhead
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status:

Wurtsboro
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Lordstown
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295148—Valois gravelly sandy loam, 15 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,745 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Valois and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Valois Soil

Soil Classification
Coarse-loamy, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: End moraines, lateral moraines, valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 25 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 1
Available water capacity: Low (about 5.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
0 to 1 inch; moderately decomposed plant material
1 to 4 inches; gravelly sandy loam
4 to 26 inches; gravelly sandy loam
26 to 37 inches; gravelly sandy loam
37 to 60 inches; gravelly sandy loam

Minor Components

Chenango
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Riverhead
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status:

Lordstown
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Wurtsboro
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295149—Valois gravelly sandy loam, 25 to 35 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,745 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Valois and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Valois Soil

Soil Classification
Coarse-loamy, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: End moraines, lateral moraines, valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 25 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 1
Available water capacity: Low (about 5.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6e
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
0 to 1 inch; moderately decomposed plant material
1 to 4 inches; gravelly sandy loam
4 to 26 inches; gravelly sandy loam
26 to 37 inches; gravelly sandy loam
37 to 60 inches; gravelly sandy loam

Minor Components

Chenango
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Riverhead
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status:

Lordstown
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295150—Valois gravelly sandy loam, 35 to 50 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,745 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Valois and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Valois Soil

Soil Classification
Coarse-loamy, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: End moraines, lateral moraines, valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 35 to 50 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from sandstone, siltstone, and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 1
Available water capacity: Low (about 5.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7e
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
0 to 1 inch; moderately decomposed plant material
1 to 4 inches; gravelly sandy loam
4 to 26 inches; gravelly sandy loam
26 to 37 inches; gravelly sandy loam
37 to 60 inches; gravelly sandy loam

Minor Components

Chenango
Percent of map unit: 5 percent

Aspect (representative): North
Hydric soil status: No

Riverhead
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status:

Lordstown
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295153—Wayland silt loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 200 to 1,495 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Wayland and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Wayland Soil

Soil Classification
Fine-silty, mixed, active, nonacid, mesic Fluvaquentic Endoaquepts

Setting
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Dip
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): North
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Silty and clayey alluvium washed from uplands; contains some calcareous drift
Restrictive feature(s): None within a depth of 60 inches

Frequency of flooding: Frequent
Frequency of ponding: Frequent
Depth to water table: At the surface
Drainage class: Very poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 1
Available water capacity: High (about 9.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 5w
Hydric soil status: Yes
Hydrologic soil group: C/D

Typical Profile
0 to 7 inches; silt loam
7 to 20 inches; silt loam
20 to 32 inches; silt loam
32 to 60 inches; silt loam

Minor Components

Unnamed soils
Percent of map unit: 5 percent
Landform: Marshes
Aspect (representative): North
Hydric soil status: Yes

Fluvaquents
Percent of map unit: 4 percent
Landform: Flood plains
Aspect (representative): North
Hydric soil status: Yes

Bash
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Philo
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Udifluvents
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295154—Wellsboro gravelly loam, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,095 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Wellsboro and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Wellsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 12 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 10 to 28 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 7 inches; gravelly loam
7 to 23 inches; gravelly loam
23 to 60 inches; gravelly loam

Minor Components

Morris
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Scriba
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 2 percent

Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status:

Wurtsboro
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295155—Wellsboro gravelly loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,095 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Wellsboro and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Wellsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 3 to 8 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 12 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 10 to 28 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w

Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 7 inches; gravelly loam
7 to 23 inches; gravelly loam
23 to 60 inches; gravelly loam

Minor Components

Morris
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Scriba
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status:

Wurtsboro
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295156—Wellsboro gravelly loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,095 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Wellsboro and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Wellsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 12 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 10 to 28 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 7 inches; gravelly loam
7 to 23 inches; gravelly loam
23 to 60 inches; gravelly loam

Minor Components

Lackawanna
Percent of map unit: 4 percent
Aspect (representative): North
Hydric soil status: No

Morris
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Oquaga
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status:

Wurtsboro
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Scriba
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295157—Wellsboro and Wurtsboro soils, strongly sloping, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,095 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Wellsboro, extremely stony, and similar soils: 40 percent
Wurtsboro, extremely stony, and similar soils: 40 percent
Dissimilar minor components: 20 percent

Description of Wellsboro, Extremely Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 0 to 15 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from reddish sandstone, siltstone, and shale
Restrictive feature(s): Fragipan at a depth of 12 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 10 to 28 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s

Hydric soil status: No
Hydrologic soil group: D

Typical Profile
0 to 7 inches; gravelly loam
7 to 23 inches; gravelly loam
23 to 60 inches; gravelly loam

Description of Wurtsboro, Extremely Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 0 to 15 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid quartzite, conglomerate, and sandstone
Restrictive feature(s): Fragipan at a depth of 20 to 28 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 12 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
0 to 2 inches; moderately decomposed plant material
2 to 4 inches; loam
4 to 28 inches; loam
28 to 60 inches; gravelly fine sandy loam

Minor Components

Scriba
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Morris
Percent of map unit: 3 percent
Aspect (representative): North
Hydric soil status: No

Lordstown
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Oquaga
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

295162—Wurtsboro loam, 0 to 3 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,000 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Wurtsboro, stony, and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Wurtsboro, Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid quartzite, conglomerate, and sandstone
Restrictive feature(s): Fragipan at a depth of 20 to 28 inches
Frequency of flooding: None
Frequency of ponding: None

Depth to water table: About 12 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
0 to 2 inches; moderately decomposed plant material
2 to 4 inches; loam
4 to 28 inches; loam
28 to 60 inches; gravelly fine sandy loam

Minor Components

Scriba
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Morris
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295163—Wurtsboro loam, 3 to 8 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,000 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Wurtsboro, stony, and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Wurtsboro, Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 3 to 8 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid quartzite, conglomerate, and sandstone
Restrictive feature(s): Fragipan at a depth of 20 to 28 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 12 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
0 to 2 inches; moderately decomposed plant material
2 to 4 inches; loam
4 to 28 inches; loam
28 to 60 inches; gravelly fine sandy loam

Minor Components

Scriba
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Morris
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

295164—Wurtsboro loam, 8 to 15 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,000 to 1,800 feet
Mean annual precipitation: 41 to 51 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 160 days

Map Unit Composition

Wurtsboro, stony, and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Wurtsboro, Stony, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Till plains, hills
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Slope: 8 to 15 percent
Down-slope shape: Concave
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Parent material: Loamy till derived mainly from acid quartzite, conglomerate, and sandstone
Restrictive feature(s): Fragipan at a depth of 20 to 28 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 12 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
0 to 2 inches; moderately decomposed plant material
2 to 4 inches; loam
4 to 28 inches; loam
28 to 60 inches; gravelly fine sandy loam

Minor Components

Scriba
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Swartswood
Percent of map unit: 5 percent
Aspect (representative): North
Hydric soil status: No

Lackawanna
Percent of map unit: 2 percent
Aspect (representative): North
Hydric soil status: No

Morris
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Unnamed soils
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

Valois
Percent of map unit: 1 percent
Aspect (representative): North
Hydric soil status: No

296588—Arnot channery loam, very rocky, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 120 to 180 days

Map Unit Composition

Arnot and similar soils: 90 percent
Dissimilar minor components: 10 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, nose slope
Slope: 3 to 8 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Parent material: Till derived from sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
A—0 to 4 inches; channery loam
Bw—4 to 17 inches; very channery loam
2R—17 to 24 inches; unweathered bedrock

Minor Components

Oquaga
Percent of map unit: 10 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

296589—Arnot channery loam, very rocky, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 120 to 180 days

Map Unit Composition

Arnot and similar soils: 90 percent
Dissimilar minor components: 10 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope, side slope
Slope: 8 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Parent material: Till derived from sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
A—0 to 4 inches; channery loam
Bw—4 to 17 inches; very channery loam
2R—17 to 24 inches; unweathered bedrock

Minor Components

Oquaga
Percent of map unit: 10 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

296590—Arnot channery loam, very rocky, 15 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 120 to 180 days

Map Unit Composition

Arnot and similar soils: 95 percent
Dissimilar minor components: 5 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope, side slope
Slope: 15 to 25 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Parent material: Till derived from sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6e
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
A—0 to 4 inches; channery loam
Bw—4 to 17 inches; very channery loam
2R—17 to 24 inches; unweathered bedrock

Minor Components

Oquaga
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 15 to 25 percent
Hydric soil status: Unranked

296591—Barbour loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains

Elevation: 200 to 1,000 feet
Mean annual precipitation: 30 to 51 inches
Mean annual air temperature: 40 to 55 degrees F
Frost-free period: 100 to 187 days

Map Unit Composition

Barbour and similar soils: 70 percent
Dissimilar minor components: 30 percent

Description of Barbour Soil

Soil Classification
Coarse-loamy over sandy or sandy-skeletal, mixed, active, mesic Fluventic Dystrudepts

Setting
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Parent material: Reddish alluvium derived from sedimentary rock
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Depth to water table: About 36 to 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 1
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
0 to 12 inches; loam
12 to 28 inches; gravelly loam
28 to 60 inches; very gravelly loamy sand

Minor Components

Barbour, frequently flooded
Percent of map unit: 18 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 2 percent
Hydric soil status: No

Linden
Percent of map unit: 10 percent

Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Holly
Percent of map unit: 2 percent
Landform: Depressions on flood plains, backswamps
Geomorphic position (two-dimensional): Toeslope
Geomorphic position (three-dimensional): Base slope
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil status: Yes

296592—Basher silt loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 835 feet
Mean annual precipitation: 30 to 45 inches
Mean annual air temperature: 45 to 54 degrees F
Frost-free period: 120 to 187 days

Map Unit Composition

Basher and similar soils: 87 percent
Dissimilar minor components: 13 percent

Description of Basher Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Fluvaquentic Dystrudepts

Setting
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Parent material: Reddish alluvium derived from sedimentary rock
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Depth to water table: About 18 to 24 inches
Drainage class: Moderately well drained

Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: High (about 9.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
0 to 14 inches; silt loam
14 to 40 inches; fine sandy loam
40 to 56 inches; gravelly loam
56 to 69 inches; very gravelly loam

Minor Components

Basher, frequently flooded
Percent of map unit: 8 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

Holly
Percent of map unit: 5 percent
Landform: Depressions on flood plains, backswamps
Geomorphic position (two-dimensional): Toeslope
Geomorphic position (three-dimensional): Base slope
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil status: Yes

296593—Fluvents and Fluvaquents, cobbly

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 200 to 1,000 feet
Mean annual precipitation: 32 to 51 inches
Mean annual air temperature: 40 to 55 degrees F
Frost-free period: 100 to 200 days

Map Unit Composition

Fluvents and similar soils: 70 percent
Fluvaquents and similar soils: 20 percent
Dissimilar minor components: 8 percent

Description of Fluvents

Soil Classification
Udifluvents

Setting
Landscape: River valleys

Landform: Flood-plain steps
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 0 to 3 percent
Down-slope shape: Concave, linear
Across-slope shape: Linear, concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Depth to water table: About 36 to 36 inches
Drainage class: Excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
0 to 6 inches; gravelly sandy loam
6 to 60 inches; cobbly sandy loam

Description of Fluvaquents

Soil Classification
Fluvaquents

Setting
Landform: Depressions
Slope: 0 to 3 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Thermic

Properties and Qualities
Runoff: Very high
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Depth to water table: At the surface to a depth of 12 inches
Drainage class: Poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: Yes
Hydrologic soil group: D

Typical Profile
0 to 6 inches; cobbly sandy loam
6 to 60 inches; cobbly sandy loam

Minor Components

Barbour
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Basher
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

296594—Holly silt loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 835 feet
Mean annual precipitation: 30 to 45 inches
Mean annual air temperature: 45 to 54 degrees F
Frost-free period: 120 to 187 days

Map Unit Composition

Holly and similar soils: 95 percent
Dissimilar minor components: 5 percent

Description of Holly Soil

Soil Classification
Fine-loamy, mixed, active, nonacid, mesic Fluvaquentic Endoaquepts

Setting
Landform: Depressions on flood plains, backswamps
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Negligible
Parent material: Loamy alluvium derived from sandstone and shale
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Frequent
Frequency of ponding: Frequent

Depth to water table: At the surface to a depth of 12 inches
Drainage class: Poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: High (about 10.1 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: Yes
Hydrologic soil group: B/D

Typical Profile
0 to 12 inches; silt loam
12 to 28 inches; sandy loam
28 to 42 inches; sandy loam
42 to 60 inches; stratified gravelly sand to silt loam

Minor Components

Basher
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

296595—Linden fine sandy loam, rarely flooded

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 200 to 1,000 feet
Mean annual precipitation: 30 to 45 inches
Mean annual air temperature: 46 to 55 degrees F
Frost-free period: 120 to 187 days

Map Unit Composition

Linden and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Linden Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Fluventic Dystrudepts

Setting
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very low

Parent material: Alluvium derived from sedimentary rock
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Depth to water table: About 36 to 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 8.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 1
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
0 to 11 inches; fine sandy loam
11 to 48 inches; fine sandy loam
48 to 65 inches; very gravelly loamy sand

Minor Components

Barbour
Percent of map unit: 10 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Linden, neutral
Percent of map unit: 3 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

Holly
Percent of map unit: 2 percent
Landform: Depressions on flood plains, backswamps
Geomorphic position (two-dimensional): Toeslope
Geomorphic position (three-dimensional): Base slope
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil status: Yes

296596—Lordstown channery loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 750 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Lordstown and similar soils: 94 percent
Dissimilar minor components: 6 percent

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Crest, side slope
Slope: 3 to 8 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 7 inches; channery loam
Bw—7 to 26 inches; channery loam
C—26 to 30 inches; channery loam
2R—30 to 42 inches; unweathered bedrock

Minor Components

Arnot
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

296599—Lordstown channery loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains

Elevation: 750 to 1,800 feet
Mean annual precipitation: 30 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Lordstown and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Crest, side slope
Slope: 3 to 8 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 7 inches; channery loam
Bw—7 to 26 inches; channery loam
C—26 to 30 inches; channery loam
2R—30 to 42 inches; unweathered bedrock

Minor Components

Arnot
Percent of map unit: 15 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

Mardin
Percent of map unit: 5 percent
Aspect (representative): Southeast

Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

296600—Lordstown channery loam, 8 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 750 to 1,800 feet
Mean annual precipitation: 30 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Lordstown and similar soils: 90 percent
Dissimilar minor components: 10 percent

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Crest, side slope
Slope: 8 to 25 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 7 inches; channery loam
Bw—7 to 26 inches; channery loam
C—26 to 30 inches; channery loam
2R—30 to 42 inches; unweathered bedrock

Minor Components

Arnot
Percent of map unit: 8 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Mardin
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 15 to 25 percent
Hydric soil status: No

296601—Medihemists and Medifibrists

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 34 to 51 inches
Mean annual air temperature: 40 to 50 degrees F
Frost-free period: 100 to 160 days

Map Unit Composition

Medihemists and similar soils: 60 percent
Medifibrists and similar soils: 30 percent
Dissimilar minor components: 10 percent

Description of Medihemists

Soil Classification
Medihemists

Setting
Landform: Bogs
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Negligible
Parent material: Organic material
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Depth to water table: At the surface
Drainage class: Very poorly drained
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very high (about 22.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 8w

Hydric soil status: Yes
Hydrologic soil group: D

Description of Medifibrists

Soil Classification
Medifibrists

Setting
Landform: Bogs
Slope: 0 to 3 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Negligible
Parent material: Slightly decomposed organic material
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Depth to water table: At the surface
Drainage class: Very poorly drained
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very high (about 22.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 8w
Hydric soil status: Yes
Hydrologic soil group: D

Minor Components

Terric Haplohemists
Percent of map unit: 10 percent
Landform: Swamps
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: Yes

296602—Mardin channery loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 30 to 45 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Mardin and similar soils: 90 percent
Dissimilar minor components: 8 percent

Description of Mardin Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 3 to 8 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Parent material: Loamy till
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx—21 to 60 inches; very channery loam
C—60 to 80 inches; channery fine sandy loam

Minor Components

Chippewa
Percent of map unit: 8 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

296603—Mardin channery loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 30 to 45 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Mardin and similar soils: 90 percent
Dissimilar minor components: 5 percent

Description of Mardin Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 8 to 15 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Parent material: Loamy till
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx—21 to 60 inches; very channery loam
C—60 to 80 inches; channery fine sandy loam

Minor Components

Chippewa
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 10 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

296604—Mardin channery loam, 15 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 30 to 40 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Mardin and similar soils: 90 percent

Description of Mardin Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 25 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Parent material: Loamy till
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx—21 to 60 inches; very channery loam
C—60 to 80 inches; channery fine sandy loam

296605—Mardin channery loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains

Elevation: 800 to 1,800 feet
Mean annual precipitation: 30 to 45 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Mardin and similar soils: 90 percent
Dissimilar minor components: 8 percent

Description of Mardin Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 3 to 8 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Parent material: Loamy till
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx—21 to 60 inches; very channery loam
C—60 to 80 inches; channery fine sandy loam

Minor Components

Chippewa
Percent of map unit: 8 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

296606—Mardin channery loam, 8 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 30 to 45 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Mardin and similar soils: 85 percent
Dissimilar minor components: 2 percent

Description of Mardin Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 8 to 25 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Parent material: Loamy till
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx—21 to 60 inches; very channery loam
C—60 to 80 inches; channery fine sandy loam

Minor Components

Chippewa
Percent of map unit: 2 percent

Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 12 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

296608—Morris channery loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 50 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Morris and similar soils: 75 percent
Dissimilar minor components: 25 percent

Description of Morris Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landscape: Glaciated uplands
Landform: Till plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 3 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Restrictive feature(s): Fragipan at a depth of 11 to 22 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 3 to 10 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery loam
Bw—8 to 17 inches; channery loam

Bx—17 to 70 inches; channery silt loam
C—70 to 80 inches; channery silt loam

Minor Components

Norwich
Percent of map unit: 20 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Wellsboro
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

296609—Morris channery loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 50 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Morris and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Morris Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landscape: Glaciated uplands
Landform: Till plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 8 to 18 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Restrictive feature(s): Fragipan at a depth of 11 to 22 inches
Frequency of flooding: None

Frequency of ponding: None
Depth to water table: About 3 to 10 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery loam
Bw—8 to 17 inches; channery loam
Bx—17 to 70 inches; channery silt loam
C—70 to 80 inches; channery silt loam

Minor Components

Norwich
Percent of map unit: 12 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 10 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Wellsboro
Percent of map unit: 8 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

296610—Morris channery loam, 0 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 165 days

Map Unit Composition

Morris and similar soils: 75 percent
Dissimilar minor components: 25 percent

Description of Morris Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landscape: Glaciated uplands

Landform: Till plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Restrictive feature(s): Fragipan at a depth of 11 to 22 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 3 to 10 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery loam
Bw—8 to 17 inches; channery loam
Bx—17 to 70 inches; channery silt loam
C—70 to 80 inches; channery silt loam

Minor Components

Norwich
Percent of map unit: 20 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Wellsboro
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

296611—Morris channery loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet

Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 120 to 165 days

Map Unit Composition

Morris and similar soils: 90 percent
Dissimilar minor components: 10 percent

Description of Morris Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landscape: Glaciated uplands
Landform: Till plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 8 to 15 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Parent material: Reddish ablation till derived from sandstone and siltstone
Restrictive feature(s): Fragipan at a depth of 11 to 22 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 3 to 10 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery loam
Bw—8 to 17 inches; channery loam
Bx—17 to 70 inches; channery loam
C—70 to 80 inches; channery loam

Minor Components

Norwich
Percent of map unit: 10 percent
Landform: Swamps
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 12 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

296613—Norwich and Chippewa channery silt loams, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 30 to 51 inches
Mean annual air temperature: 40 to 50 degrees F
Frost-free period: 100 to 165 days

Map Unit Composition

Norwich and similar soils: 63 percent
Chippewa and similar soils: 33 percent
Dissimilar minor components: 4 percent

Description of Norwich Soil

Soil Classification
Fine-loamy, mixed, active, mesic Typic Fragiaquepts

Setting
Landform: Depressions
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Restrictive feature(s): Fragipan at a depth of 10 to 24 inches
Frequency of flooding: None
Frequency of ponding: Occasional
Depth to water table: At the surface (perched)
Drainage class: Very poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: Yes
Hydrologic soil group: D

Typical Profile
A—0 to 8 inches; channery silt loam
Eg—8 to 16 inches; channery loam
Bxg—16 to 48 inches; channery silt loam
C—48 to 80 inches; channery silt loam

Description of Chippewa Soil

Soil Classification
Fine-loamy, mixed, active, mesic Typic Fragiaquepts

Setting
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Restrictive feature(s): Fragipan at a depth of 10 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: At the surface to a depth of 2 inches (perched)
Drainage class: Poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: Yes
Hydrologic soil group: D

Typical Profile
A—0 to 8 inches; channery silt loam
Eg—8 to 16 inches; channery silt loam
Bxg—16 to 48 inches; channery silt loam
C—48 to 80 inches; channery silt loam

Minor Components

Morris
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Volusia
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

296614—Oquaga channery loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Oquaga and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landscape: Glaciated uplands
Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Slope: 3 to 8 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
Ap—0 to 7 inches; channery loam
Bw—7 to 30 inches; extremely channery silt loam
R—30 to 42 inches; unweathered bedrock

Minor Components

Arnot
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 15 percent
Hydric soil status: No

Lackawanna
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

Lordstown
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

296615—Oquaga channery loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Oquaga and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landscape: Glaciated uplands
Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Slope: 8 to 15 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
Ap—0 to 7 inches; channery loam

Bw—7 to 30 inches; extremely channery silt loam
R—30 to 42 inches; unweathered bedrock

Minor Components

Arnot
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 15 percent
Hydric soil status: No

Lackawanna
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Lordstown
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

296616—Oquaga channery loam, 15 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Oquaga and similar soils: 85 percent
Dissimilar minor components: 10 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landscape: Glaciated uplands
Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Slope: 15 to 25 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
Ap—0 to 7 inches; channery loam
Bw—7 to 30 inches; extremely channery silt loam
R—30 to 42 inches; unweathered bedrock

Minor Components

Arnot
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 15 percent
Hydric soil status: No

Lackawanna
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 15 to 25 percent
Hydric soil status: No

296617—Oquaga channery loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Oquaga and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landscape: Glaciated uplands
Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Slope: 3 to 8 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 7 inches; channery loam
Bw—7 to 30 inches; extremely channery silt loam
R—30 to 42 inches; unweathered bedrock

Minor Components

Arnot
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 15 percent
Hydric soil status: No

Lackawanna
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

Lordstown
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

296618—Oquaga channery loam, 8 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Oquaga and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landscape: Glaciated uplands
Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Slope: 8 to 25 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 7 inches; channery loam
Bw—7 to 30 inches; extremely channery silt loam
R—30 to 42 inches; unweathered bedrock

Minor Components

Arnot
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects

Slope: 3 to 15 percent
Hydric soil status: No

Lackawanna
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

Lordstown
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 25 percent
Hydric soil status: No

296619—Oquaga and Lordstown channery loams, 25 to 70 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Oquaga and similar soils: 45 percent
Lordstown and similar soils: 20 percent
Dissimilar minor components: 15 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landscape: Glaciated uplands
Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Slope: 25 to 70 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches

Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 7 inches; channery loam
Bw—7 to 30 inches; extremely channery silt loam
R—30 to 42 inches; unweathered bedrock

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Crest, side slope
Slope: 25 to 70 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 7 inches; channery silt loam
Bw—7 to 26 inches; channery silt loam
C—26 to 30 inches; very channery silt loam
2R—30 to 42 inches; unweathered bedrock

Minor Components

Lackawanna
Percent of map unit: 10 percent
Aspect (representative): Southeast
Aspect (range): All aspects

Slope: 8 to 25 percent
Hydric soil status: No

Arnot
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 15 percent
Hydric soil status: No

296621—Quarries

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 34 to 51 inches
Mean annual air temperature: 40 to 50 degrees F
Frost-free period: 100 to 160 days

Map Unit Composition

Quarries: 100 percent

Description of Quarries

Setting
Aspect (representative): Southeast
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Hydric soil status: No

296622—Rexford silt loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 34 to 51 inches
Mean annual air temperature: 40 to 50 degrees F
Frost-free period: 100 to 160 days

Map Unit Composition

Rexford, poorly drained, and similar soils: 45 percent
Rexford, somewhat poorly drained, and similar soils: 40 percent
Dissimilar minor components: 5 percent

Description of Rexford, Poorly Drained, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landform: Drainageways
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Parent material: Coarse-loamy outwash derived from sandstone and shale
Restrictive feature(s): Fragipan at a depth of 15 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: At the surface (perched)
Drainage class: Poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: Yes
Hydrologic soil group: C

Typical Profile
Ap—0 to 8 inches; silt loam
Bw—8 to 18 inches; silt loam
Bx—18 to 40 inches; gravelly loam
2C—40 to 63 inches; stratified gravel and very gravelly sandy loam

Description of Rexford, Somewhat Poorly Drained, Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landform: Drainageways
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Parent material: Coarse-loamy outwash derived from sandstone and shale
Restrictive feature(s): Fragipan at a depth of 15 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 2 to 10 inches (perched)
Drainage class: Somewhat poorly drained

Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
Ap—0 to 8 inches; silt loam
Bw—8 to 18 inches; silt loam
Bx—18 to 40 inches; gravelly loam
2C—40 to 63 inches; stratified gravel and very gravelly sandy loam

Minor Components

Braceville
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

296623—Rock outcrop-Arnot complex, 3 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 51 inches
Mean annual air temperature: 40 to 52 degrees F
Frost-free period: 100 to 180 days

Map Unit Composition

Rock outcrop: 70 percent
Arnot and similar soils: 20 percent
Dissimilar minor components: 10 percent

Description of Rock Outcrop

Setting
Slope: 3 to 25 percent
Aspect (representative): Southeast
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): Lithic bedrock at the surface
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Excessively drained
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope, side slope
Slope: 3 to 25 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Parent material: Till derived from sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6e
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
A—0 to 4 inches; channery loam
Bw—4 to 17 inches; very channery loam
2R—17 to 24 inches; unweathered bedrock

Minor Components

Oquaga
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 25 percent
Hydric soil status: No

Wellsboro
Percent of map unit: 4 percent
Landform: Valley sides
Geomorphic position (two-dimensional): Footslope
Geomorphic position (three-dimensional): Base slope
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 25 percent
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil status: No

296625—Swartswood channery sandy loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,000 to 1,800 feet
Mean annual precipitation: 40 to 46 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Swartswood and similar soils: 90 percent

Description of Swartswood Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landscape: Uplands
Landform: Hills
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Side slope
Slope: 8 to 15 percent
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Parent material: Coarse-loamy till derived from sandstone
Restrictive feature(s): Fragipan at a depth of 22 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 20 to 35 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 28 inches; channery sandy loam
28 to 60 inches; channery fine sandy loam

296628—Swartswood channery sandy loam, 8 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains

Elevation: 600 to 1,800 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 46 to 55 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Swartswood and similar soils: 90 percent

Description of Swartswood Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landscape: Uplands
Landform: Hills
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Side slope
Slope: 8 to 25 percent
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Parent material: Coarse-loamy till derived from sandstone
Restrictive feature(s): Fragipan at a depth of 22 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 20 to 35 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
0 to 28 inches; channery sandy loam
28 to 60 inches; channery fine sandy loam

296630—Volusia channery silt loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 30 to 45 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Volusia and similar soils: 75 percent
Dissimilar minor components: 25 percent

Description of Volusia Soil

Soil Classification
Fine-loamy, mixed, superactive, mesic Aeric Fragiaquepts

Setting
Landform: Hills
Landform position (three-dimensional): Side slope
Slope: 3 to 8 percent
Down-slope shape: Concave
Across-slope shape: Convex, concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Restrictive feature(s): Fragipan at a depth of 11 to 22 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 3 to 10 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3w
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery silt loam
Bw—8 to 15 inches; channery silt loam
Bx—15 to 70 inches; channery loam
C—70 to 80 inches; channery loam

Minor Components

Chippewa
Percent of map unit: 20 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Mardin
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects

Slope: 3 to 8 percent
Hydric soil status: No

296632—Volusia channery silt loam, 0 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 30 to 45 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Volusia and similar soils: 75 percent
Dissimilar minor components: 25 percent

Description of Volusia Soil

Soil Classification
Fine-loamy, mixed, superactive, mesic Aeric Fragiaquepts

Setting
Landscape: Plateaus
Landform: Valley sides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Side slope
Slope: 0 to 8 percent
Down-slope shape: Concave, linear
Across-slope shape: Linear, concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Restrictive feature(s): Fragipan at a depth of 11 to 22 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 3 to 10 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery silt loam
Bw—8 to 15 inches; channery silt loam
Bx—15 to 70 inches; channery loam
C—70 to 80 inches; channery loam

Minor Components

Chippewa
Percent of map unit: 20 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Mardin
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

296633—Volusia channery silt loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 30 to 45 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Volusia and similar soils: 90 percent
Dissimilar minor components: 10 percent

Description of Volusia Soil

Soil Classification
Fine-loamy, mixed, superactive, mesic Aeric Fragiaquepts

Setting
Landscape: Plateaus
Landform: Valley sides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Side slope
Slope: 8 to 15 percent
Down-slope shape: Concave, linear
Across-slope shape: Linear, concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Parent material: Fine-loamy basal till derived from sandstone and siltstone
Restrictive feature(s): Fragipan at a depth of 11 to 22 inches
Frequency of flooding: None

Frequency of ponding: None
Depth to water table: About 3 to 10 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery silt loam
Bw—8 to 15 inches; channery silt loam
Bx—15 to 70 inches; channery silt loam
C—70 to 80 inches; channery silt loam

Minor Components

Chippewa
Percent of map unit: 10 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 12 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

296634—Wellsboro channery loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 1,095 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Wellsboro and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Wellsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 3 to 8 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): Southeast

Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx—21 to 60 inches; channery silt loam
C—60 to 80 inches; channery loam

Minor Components

Morris
Percent of map unit: 8 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

Norwich
Percent of map unit: 8 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Lackawanna
Percent of map unit: 4 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

296635—Wellsboro channery loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains

Elevation: 50 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Wellsboro and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Wellsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 8 to 15 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx—21 to 60 inches; channery silt loam
C—60 to 80 inches; channery loam

Minor Components

Lackawanna
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

Morris
Percent of map unit: 5 percent
Aspect (representative): Southeast

Aspect (range): All aspects
Slope: 8 to 18 percent
Hydric soil status: No

Norwich
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 12 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

296636—Wellsboro channery loam, 15 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 50 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Wellsboro and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Wellsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 8 to 15 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx—21 to 60 inches; channery silt loam
C—60 to 80 inches; channery loam

Minor Components

Lackawanna
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

Morris
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 18 percent
Hydric soil status: No

Norwich
Percent of map unit: 5 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 12 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

296637—Wellsboro channery loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 165 days

Map Unit Composition

Wellsboro and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Wellsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 3 to 8 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx—21 to 60 inches; channery silt loam
C—60 to 80 inches; channery loam

Minor Components

Morris
Percent of map unit: 8 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Norwich
Percent of map unit: 8 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Lackawanna
Percent of map unit: 4 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

296638—Wellsboro channery loam, 8 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 165 days

Map Unit Composition

Wellsboro and similar soils: 85 percent
Dissimilar minor components: 13 percent

Description of Wellsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 8 to 25 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx—21 to 60 inches; channery silt loam
C—60 to 80 inches; channery loam

Minor Components

Lackawanna
Percent of map unit: 8 percent

Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 25 percent
Hydric soil status: No

Norwich
Percent of map unit: 3 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 12 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Morris
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 25 percent
Hydric soil status: No

296639—Wellsboro and Mardin channery loams, 25 to 50 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 30 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 165 days

Map Unit Composition

Wellsboro and similar soils: 70 percent
Mardin and similar soils: 20 percent

Description of Wellsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 25 to 50 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Parent material: Reddish ablation till derived from sandstone and siltstone
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches

Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.3 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx—21 to 60 inches; channery silt loam
C—60 to 80 inches; channery loam

Description of Mardin Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 25 to 50 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Parent material: Loamy till
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx—21 to 60 inches; very channery loam
C—60 to 80 inches; channery fine sandy loam

296640—Wyoming gravelly sandy loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 1,800 feet
Mean annual precipitation: 30 to 56 inches
Mean annual air temperature: 45 to 54 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Wyoming and similar soils: 85 percent
Dissimilar minor components: 10 percent

Description of Wyoming Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Riser
Slope: 3 to 8 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 7 inches; gravelly sandy loam
7 to 25 inches; very gravelly sandy loam
25 to 60 inches; extremely gravelly loamy coarse sand

Minor Components

Braceville
Percent of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (two-dimensional): Toeslope

Geomorphic position (three-dimensional): Tread
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 2 to 6 percent
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil status: No

Unadilla
Percent of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (two-dimensional): Toeslope
Geomorphic position (three-dimensional): Tread
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil status: No

296641—Wyoming gravelly sandy loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 1,800 feet
Mean annual precipitation: 30 to 56 inches
Mean annual air temperature: 45 to 54 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Wyoming and similar soils: 85 percent
Dissimilar minor components: 12 percent

Description of Wyoming Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Riser
Slope: 8 to 15 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None

Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 7 inches; gravelly sandy loam
7 to 25 inches; very gravelly sandy loam
25 to 60 inches; extremely gravelly loamy coarse sand

Minor Components

Braceville
Percent of map unit: 7 percent
Landform: Outwash terraces
Geomorphic position (two-dimensional): Toeslope
Geomorphic position (three-dimensional): Tread
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 2 to 6 percent
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil status: No

Unadilla
Percent of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (two-dimensional): Toeslope
Geomorphic position (three-dimensional): Tread
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil status: No

296642—Wyoming gravelly sandy loam, 15 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 1,800 feet
Mean annual precipitation: 30 to 50 inches
Mean annual air temperature: 45 to 54 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Wyoming and similar soils: 85 percent
Dissimilar minor components: 5 percent

Description of Wyoming Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Riser
Slope: 15 to 25 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 7 inches; gravelly sandy loam
7 to 25 inches; very gravelly sandy loam
25 to 60 inches; extremely gravelly loamy coarse sand

Minor Components

Unadilla
Percent of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (two-dimensional): Toeslope
Geomorphic position (three-dimensional): Tread
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil status: No

296643—Wyoming gravelly sandy loam, 25 to 45 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains

Elevation: 400 to 1,800 feet
Mean annual precipitation: 42 to 50 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 110 to 145 days

Map Unit Composition

Wyoming and similar soils: 90 percent

Description of Wyoming Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Riser
Slope: 25 to 45 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
0 to 7 inches; gravelly sandy loam
7 to 25 inches; very gravelly sandy loam
25 to 60 inches; extremely gravelly loamy coarse sand

296644—Water

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains

Map Unit Composition

Water: 100 percent

297185—Edgemere-Shohola complex, 3 to 15 percent slopes, very rubbly

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 30 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Edgemere and similar soils: 42 percent
Shohola and similar soils: 42 percent
Dissimilar minor components: 16 percent

Description of Edgemere Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Fragiaquepts

Setting
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Mountainbase, base slope, flat
Slope: 3 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Negligible
Restrictive feature(s): Fragipan at a depth of 15 to 25 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Depth to water table: At the surface to a depth of 6 inches (perched)
Drainage class: Very poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: Yes
Hydrologic soil group: D

Typical Profile
Oe—0 to 2 inches; extremely stony mucky peat
A/E—2 to 5 inches; extremely stony loam
Bg—5 to 24 inches; very stony loam
Bx—24 to 66 inches; very gravelly sandy loam

Description of Shohola Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Aeric Fragiaquepts

Setting
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 3 to 15 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Restrictive feature(s): Fragipan at a depth of 18 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 18 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 3 inches; very flaggy loam
B—3 to 24 inches; very flaggy loam
Bx—24 to 72 inches; very flaggy fine sandy loam

Minor Components

Mardin
Percent of map unit: 11 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Freetown
Percent of map unit: 5 percent
Landform: Swamps
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 2 percent
Hydric soil status: Yes

297186—Edgemere extremely stony loam, 0 to 3 percent slopes, very rubbly

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 1,800 feet

Mean annual precipitation: 30 to 50 inches
Mean annual air temperature: 45 to 54 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Edgemere and similar soils: 75 percent
Dissimilar minor components: 25 percent

Description of Edgemere Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Fragiaquepts

Setting
Landform: Depressions
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Negligible
Restrictive feature(s): Fragipan at a depth of 15 to 25 inches
Frequency of flooding: None
Frequency of ponding: Occasional
Depth to water table: At the surface to a depth of 6 inches (perched)
Drainage class: Poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: Yes
Hydrologic soil group: D

Typical Profile
Oe—0 to 2 inches; extremely stony mucky peat
A/E—2 to 5 inches; extremely stony loam
Bw—5 to 24 inches; very stony loam
C—24 to 66 inches; very gravelly sandy loam

Minor Components

Shohola
Percent of map unit: 10 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Mardin
Percent of map unit: 7 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Freetown
Percent of map unit: 4 percent
Landform: Swamps
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 1 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Wyalusing
Percent of map unit: 4 percent
Landform: Flood plains
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Down-slope shape: Linear
Across-slope shape: Concave
Hydric soil status: Yes

297188—Manlius-Arnot-Rock outcrop complex, 15 to 30 percent slopes, rubbly

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 200 to 1,800 feet
Mean annual precipitation: 30 to 51 inches
Mean annual air temperature: 40 to 52 degrees F
Frost-free period: 100 to 200 days

Map Unit Composition

Manlius and similar soils: 40 percent
Arnot and similar soils: 35 percent
Rock outcrop: 15 percent
Dissimilar minor components: 10 percent

Description of Manlius Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 15 to 30 percent
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high

Parent material: Channery till derived from shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 5 inches; very channery silt loam
Bw—5 to 24 inches; very channery loam
C—24 to 30 inches; extremely channery loam
R—30 to 40 inches; unweathered bedrock

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope, side slope
Slope: 15 to 30 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
A—0 to 3 inches; very channery loam
Bw—3 to 14 inches; very channery loam
2R—14 to 24 inches; unweathered bedrock

Description of Rock Outcrop

Setting
Slope: 15 to 30 percent
Aspect (representative): Southeast
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): Lithic bedrock at the surface
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Hydric soil status: No

Minor Components

Mardin
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Rubble land
Percent of map unit: 4 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

297189—Manlius-Arnot-Rock outcrop complex, 30 to 80 percent slopes, rubbly

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 200 to 1,800 feet
Mean annual precipitation: 30 to 51 inches
Mean annual air temperature: 40 to 52 degrees F
Frost-free period: 100 to 200 days

Map Unit Composition

Manlius and similar soils: 40 percent
Arnot and similar soils: 35 percent
Rock outcrop: 15 percent
Dissimilar minor components: 10 percent

Description of Manlius Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope
Slope: 30 to 80 percent
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Parent material: Channery till derived from shale
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 5 inches; very channery silt loam
Bw—5 to 24 inches; very channery loam
C—24 to 30 inches; extremely channery loam
R—30 to 40 inches; unweathered bedrock

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope, side slope
Slope: 30 to 80 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
A—0 to 3 inches; very channery loam
Bw—3 to 14 inches; very channery loam
2R—14 to 24 inches; unweathered bedrock

Description of Rock Outcrop

Setting
Slope: 30 to 80 percent
Aspect (representative): Southeast
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): Lithic bedrock at the surface
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Hydric soil status: No

Minor Components

Mardin
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Rubble land
Percent of map unit: 4 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

297190—Braceville fine sandy loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 1,800 feet
Mean annual precipitation: 34 to 51 inches
Mean annual air temperature: 40 to 52 degrees F
Frost-free period: 100 to 160 days

Map Unit Composition

Braceville and similar soils: 82 percent
Dissimilar minor components: 18 percent

Description of Braceville Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Outwash terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Restrictive feature(s): Fragipan at a depth of 15 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 30 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
Ap—0 to 11 inches; fine sandy loam
Bw—11 to 27 inches; fine sandy loam
Bx—27 to 48 inches; fine sandy loam
C—48 to 70 inches; loamy sand

Minor Components

Wyoming
Percent of map unit: 9 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Chenango
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Rexford, poorly drained
Percent of map unit: 3 percent
Landform: Outwash terraces
Aspect (representative): Southeast
Aspect (range): All aspects

Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

297191—Wyalusing fine sandy loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 3,500 feet
Mean annual precipitation: 30 to 50 inches
Mean annual air temperature: 45 to 55 degrees F
Frost-free period: 110 to 190 days

Map Unit Composition

Wyalusing and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Wyalusing Soil

Soil Classification
Coarse-loamy over sandy or sandy-skeletal, mixed, active, nonacid, mesic Fluvaquentic Endoaquepts

Setting
Landform: Flood plains
Slope: 0 to 3 percent
Down-slope shape: Linear
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Parent material: Coarse-loamy alluvium over sandy and gravelly alluvium
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Depth to water table: At the surface to a depth of 6 inches
Drainage class: Poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4w
Hydric soil status: Yes
Hydrologic soil group: D

Typical Profile
A—0 to 6 inches; fine sandy loam
Bg—6 to 31 inches; fine sandy loam
2C—31 to 70 inches; very cobbly loamy sand

Minor Components

Barbour
Percent of map unit: 7 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Craigsville
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 5 percent
Hydric soil status: No

Pope
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

297192—Pope fine sandy loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 800 feet
Mean annual precipitation: 30 to 51 inches
Mean annual air temperature: 40 to 54 degrees F
Frost-free period: 100 to 180 days

Map Unit Composition

Pope and similar soils: 95 percent
Dissimilar minor components: 5 percent

Description of Pope Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Fluventic Dystrudepts

Setting
Landform: Flood plains
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Riser
Slope: 0 to 3 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very low
Parent material: Acid alluvium derived from sedimentary rock

Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: High (about 9.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
Ap—0 to 6 inches; fine sandy loam
Bw—6 to 33 inches; fine sandy loam
C—33 to 70 inches; sandy loam

Minor Components

Wyalusing
Percent of map unit: 5 percent
Landform: Flood plains
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: Yes

297193—Paupack mucky peat

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 2,000 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Paupack and similar soils: 90 percent
Dissimilar minor components: 10 percent

Description of Paupack Soil

Soil Classification
Loamy-skeletal or clayey-skeletal, mixed, dysic, mesic Terric Haplosaprists

Setting
Landform: Swamps
Slope: 0 to 2 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Negligible
Parent material: Woody organic material over gravelly alluvium
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Depth to water table: At the surface to a depth of 6 inches
Drainage class: Very poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very high (about 18.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 5w
Hydric soil status: Yes
Hydrologic soil group: D

Vegetation
Existing plants: Silky dogwood, tamarack, rhododendron, and highbush blueberry

Typical Profile
Oe—0 to 3 inches; mucky peat
Oa1—3 to 26 inches; muck
Oa2—26 to 36 inches; very stony muck
Cg—36 to 70 inches; extremely stony sandy loam

Minor Components

Edgemere
Percent of map unit: 8 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Kimbles
Percent of map unit: 2 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 2 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

297194—Morris very channery loam, 0 to 8 percent slopes, very stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet

Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 165 days

Map Unit Composition

Morris and similar soils: 82 percent
Dissimilar minor components: 18 percent

Description of Morris Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Setting
Landscape: Glaciated uplands
Landform: Till plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Parent material: Reddish ablation till derived from sandstone and siltstone
Restrictive feature(s): Fragipan at a depth of 11 to 22 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 3 to 10 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Vegetation
Existing plants: Cinnamon fern, interrupted fern, and Christmas fern

Typical Profile
A—0 to 8 inches; very channery loam
Bw—8 to 17 inches; channery loam
Bx—17 to 70 inches; gravelly fine sandy loam
C—70 to 80 inches; gravelly fine sandy loam

Minor Components

Edgemere
Percent of map unit: 12 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent

Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Wurtsboro
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

297196—Freetown mucky peat

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 34 to 51 inches
Mean annual air temperature: 40 to 50 degrees F
Frost-free period: 100 to 200 days

Map Unit Composition

Freetown and similar soils: 94 percent
Dissimilar minor components: 6 percent

Description of Freetown Soil

Soil Classification
Dysic, mesic Typic Haplosaprists

Setting
Landform: Swamps
Slope: 0 to 1 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Negligible
Parent material: Highly decomposed organic material
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Depth to water table: At the surface to a depth of 6 inches
Drainage class: Very poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very high (about 28.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 5w
Hydric soil status: Yes
Hydrologic soil group: D

Typical Profile
Oe—0 to 6 inches; mucky peat
Oa—6 to 72 inches; muck

Minor Components

Gleneyre
Percent of map unit: 6 percent
Landform: Relict lakebeds
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 1 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

297199—Oquaga very stony loam, 0 to 8 percent slopes, extremely bouldery

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Oquaga and similar soils: 78 percent
Dissimilar minor components: 13 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landscape: Glaciated uplands
Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Slope: 0 to 8 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Parent material: Reddish ablation till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None

Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 2 inches; very stony loam
Bw—2 to 26 inches; very stony silt loam
C—26 to 32 inches; extremely stony sandy loam
R—32 to 42 inches; unweathered bedrock

Minor Components

Lackawanna
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

Wellsboro
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Shohola
Percent of map unit: 3 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

297200—Oquaga very stony loam, 8 to 15 percent slopes, extremely bouldery

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Oquaga and similar soils: 78 percent
Dissimilar minor components: 22 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landscape: Glaciated uplands
Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Slope: 8 to 15 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Parent material: Reddish ablation till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 2 inches; very stony loam
Bw—2 to 26 inches; very stony loam
C—26 to 32 inches; extremely stony sandy loam
R—32 to 42 inches; unweathered bedrock

Minor Components

Lackawanna
Percent of map unit: 10 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Wellsboro
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Rock outcrop
Percent of map unit: 4 percent

Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

Shohola
Percent of map unit: 3 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

297201—Oquaga very channery loam, 15 to 30 percent slopes, extremely bouldery

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Oquaga and similar soils: 75 percent
Dissimilar minor components: 20 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landscape: Glaciated uplands
Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Slope: 15 to 30 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Parent material: Reddish ablation till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 2 inches; very channery loam
Bw—2 to 26 inches; very stony loam
C—26 to 32 inches; extremely stony sandy loam
R—32 to 42 inches; unweathered bedrock

Minor Components

Wellsboro
Percent of map unit: 7 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 15 to 25 percent
Hydric soil status: No

Rock outcrop
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

Lackawanna
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Shohola
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

297202—Oquaga-Arnot-Rock outcrop complex, 20 to 60 percent slopes, very rubbly

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 1,800 feet
Mean annual precipitation: 32 to 51 inches
Mean annual air temperature: 40 to 52 degrees F
Frost-free period: 100 to 180 days

Map Unit Composition

Oquaga and similar soils: 40 percent
Arnot and similar soils: 30 percent

Rock outcrop: 20 percent
Dissimilar minor components: 10 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landscape: Glaciated uplands
Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Slope: 20 to 60 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Parent material: Reddish ablation till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 2 inches; very stony loam
Bw—2 to 26 inches; very stony loam
C—26 to 32 inches; extremely stony sandy loam
R—32 to 42 inches; unweathered bedrock

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope, side slope
Slope: 20 to 60 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast

Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Parent material: Till derived from sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
A—0 to 3 inches; very channery loam
Bw—3 to 14 inches; very channery silt loam
2R—14 to 24 inches; unweathered bedrock

Description of Rock Outcrop

Setting
Slope: 20 to 60 percent
Aspect (representative): Southeast
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): Lithic bedrock at the surface
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Land capability classification (nonirrigated): 8
Hydric soil status: No

Minor Components

Lackawanna
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 15 to 30 percent
Hydric soil status: No

Wellsboro
Percent of map unit: 4 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 15 to 25 percent
Hydric soil status: No

297203—Delaware fine sandy loam, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 1,095 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 200 days

Map Unit Composition

Delaware and similar soils: 93 percent
Dissimilar minor components: 7 percent

Description of Delaware Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landscape: River valleys
Landform: Low to middle river terraces
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very low
Parent material: Postglacial alluvium derived from sandstone and shale
Restrictive feature(s): Lithic bedrock at a depth of 72 to 99 inches
Frequency of flooding: Rare
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 9.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 1
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
Ap—0 to 14 inches; fine sandy loam
Bw—14 to 48 inches; fine sandy loam
C—48 to 72 inches; fine sandy loam

Minor Components

Pope
Percent of map unit: 4 percent
Aspect (representative): Southeast

Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Chenango
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Barbour
Percent of map unit: 1 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

297204—Delaware fine sandy loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 1,095 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 200 days

Map Unit Composition

Delaware and similar soils: 82 percent
Dissimilar minor components: 18 percent

Description of Delaware Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landscape: River valleys
Landform: Low to middle river terraces
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Tread
Slope: 3 to 8 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Parent material: Postglacial alluvium derived from sandstone and shale
Restrictive feature(s): Lithic bedrock at a depth of 72 to 99 inches
Frequency of flooding: Rare
Frequency of ponding: None
Depth to water table: More than 72 inches

Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 9.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2e
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
Ap—0 to 14 inches; fine sandy loam
Bw—14 to 48 inches; fine sandy loam
C—48 to 72 inches; fine sandy loam

Minor Components

Chenango
Percent of map unit: 9 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Pope
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Barbour
Percent of map unit: 3 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

297205—Delaware fine sandy loam, 8 to 20 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 1,095 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 200 days

Map Unit Composition

Delaware and similar soils: 80 percent
Dissimilar minor components: 20 percent

Description of Delaware Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landscape: River valleys
Landform: Low to middle river terraces
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Tread
Slope: 8 to 20 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Parent material: Postglacial alluvium derived from sandstone and shale
Restrictive feature(s): Lithic bedrock at a depth of 72 to 99 inches
Frequency of flooding: Rare
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 9.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: B

Typical Profile
Ap—0 to 14 inches; fine sandy loam
Bw—14 to 48 inches; fine sandy loam
C—48 to 72 inches; fine sandy loam

Minor Components

Pope
Percent of map unit: 8 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Barbour
Percent of map unit: 7 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Chenango
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

297207—Wurtsboro channery fine sandy loam, 0 to 8 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Wurtsboro and similar soils: 92 percent
Dissimilar minor components: 8 percent

Description of Wurtsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landscape: Glaciated uplands
Landform: Hills
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 0 to 8 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Parent material: Coarse-loamy till derived from sandstone
Restrictive feature(s): Fragipan at a depth of 17 to 28 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 12 to 27 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 7 inches; channery fine sandy loam
B—7 to 22 inches; gravelly fine sandy loam
Bx—22 to 60 inches; gravelly fine sandy loam

Minor Components

Edgemere
Percent of map unit: 3 percent

Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Shohola
Percent of map unit: 3 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Oquaga
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

297208—Wurtsboro channery fine sandy loam, 8 to 15 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Wurtsboro and similar soils: 92 percent
Dissimilar minor components: 8 percent

Description of Wurtsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landscape: Glaciated uplands
Landform: Hills
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 8 to 15 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High

Parent material: Coarse-loamy till derived from sandstone
Restrictive feature(s): Fragipan at a depth of 17 to 28 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 12 to 27 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 7 inches; channery fine sandy loam
Bw—7 to 22 inches; gravelly fine sandy loam
Bx—22 to 60 inches; gravelly fine sandy loam

Minor Components

Oquaga
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Edgemere
Percent of map unit: 2 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 10 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Shohola
Percent of map unit: 1 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

297209—Philo loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 1,400 feet
Mean annual precipitation: 30 to 50 inches
Mean annual air temperature: 45 to 57 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Philo and similar soils: 85 percent
Dissimilar minor components: 12 percent

Description of Philo Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Fluvaquentic Dystrudepts

Setting
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Mountainbase
Slope: 0 to 3 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Parent material: Coarse-loamy alluvium derived from sandstone and siltstone
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Depth to water table: About 18 to 36 inches
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 8.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2w
Hydric soil status: No
Hydrologic soil group: B

Vegetation
Existing plants: Red maple, sedge, hollyfern, white ash, and American hornbeam

Typical Profile
Ap—0 to 6 inches; loam
Bw—6 to 36 inches; fine sandy loam
C—36 to 70 inches; stratified sand to very gravelly sandy loam

Minor Components

Barbour
Percent of map unit: 8 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Chenango
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects

Slope: 0 to 8 percent
Hydric soil status: No

Wyalusing
Percent of map unit: 2 percent
Landform: Flood plains
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

297210—Barbour fine sandy loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 1,400 feet
Mean annual precipitation: 34 to 51 inches
Mean annual air temperature: 40 to 57 degrees F
Frost-free period: 100 to 200 days

Map Unit Composition

Barbour and similar soils: 85 percent
Dissimilar minor components: 14 percent

Description of Barbour Soil

Soil Classification
Coarse-loamy over sandy or sandy-skeletal, mixed, active, mesic Fluventic Dystrudepts

Setting
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Slope: 0 to 3 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Depth to water table: About 36 to 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.8 inches)

Interpretive Groups
Land capability classification (nonirrigated): 1

Hydric soil status: No
Hydrologic soil group: B

Typical Profile
Ap—0 to 10 inches; fine sandy loam
Bw—10 to 38 inches; fine sandy loam
2C—38 to 72 inches; very cobbly sand

Minor Components

Pope
Percent of map unit: 7 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Philo
Percent of map unit: 4 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Delaware
Percent of map unit: 3 percent
Landform: Low to middle river terraces
Geomorphic position (two-dimensional): Backslope, footslope
Geomorphic position (three-dimensional): Tread
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Hydric soil status: No

297211—Wellsboro stony loam, 0 to 8 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Wellsboro and similar soils: 89 percent
Dissimilar minor components: 11 percent

Description of Wellsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Parent material: Reddish ablation till derived from sandstone and siltstone
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Vegetation
Existing plants: Sugar maple, sedge, woodfern, American beech, and American witchhazel

Typical Profile
A—0 to 8 inches; stony loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx—21 to 60 inches; very gravelly fine sandy loam
C—60 to 80 inches; very gravelly sandy loam

Minor Components

Oquaga
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Edgemere
Percent of map unit: 3 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Rock outcrop
Percent of map unit: 1 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

Shohola
Percent of map unit: 1 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

297212—Wellsboro stony loam, 8 to 15 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Wellsboro and similar soils: 89 percent
Dissimilar minor components: 11 percent

Description of Wellsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 8 to 15 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Parent material: Reddish ablation till derived from sandstone and siltstone
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Vegetation
Existing plants: Sugar maple, sedge, woodfern, American beech, and American witchhazel

Typical Profile
A—0 to 8 inches; stony loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx—21 to 60 inches; very gravelly fine sandy loam
C—60 to 80 inches; very gravelly sandy loam

Minor Components

Oquaga
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Edgemere
Percent of map unit: 2 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 10 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Rock outcrop
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

Shohola
Percent of map unit: 1 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

297213—Wellsboro stony loam, 15 to 25 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 1,800 feet
Mean annual precipitation: 32 to 50 inches

Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Wellsboro and similar soils: 82 percent
Dissimilar minor components: 18 percent

Description of Wellsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 15 to 25 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Parent material: Reddish ablation till derived from sandstone and siltstone
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Vegetation
Existing plants: Sugar maple, sedge, woodfern, American beech, and American witchhazel

Typical Profile
A—0 to 8 inches; stony loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx—21 to 60 inches; very gravelly fine sandy loam
C—60 to 80 inches; very gravelly sandy loam

Minor Components

Oquaga
Percent of map unit: 7 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 15 to 30 percent
Hydric soil status: No

Rock outcrop
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

Arnot
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 15 percent
Hydric soil status: No

297215—Wellsboro channery loam, 8 to 15 percent slopes, stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Wellsboro and similar soils: 91 percent
Dissimilar minor components: 9 percent

Description of Wellsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 8 to 15 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Parent material: Reddish ablation till derived from sandstone and siltstone
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 8 inches; channery loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx—21 to 60 inches; very channery sandy loam
C—60 to 80 inches; very gravelly sandy loam

Minor Components

Oquaga
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Edgemere
Percent of map unit: 2 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 10 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Shohola
Percent of map unit: 1 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

297216—Wurtsboro stony fine sandy loam, 0 to 8 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 34 to 51 inches
Mean annual air temperature: 40 to 52 degrees F
Frost-free period: 100 to 180 days

Map Unit Composition

Wurtsboro and similar soils: 92 percent
Dissimilar minor components: 8 percent

Description of Wurtsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landscape: Glaciated uplands
Landform: Hills
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 0 to 8 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Parent material: Coarse-loamy till derived from sandstone
Restrictive feature(s): Fragipan at a depth of 17 to 28 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 12 to 27 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 4 inches; stony fine sandy loam
Bw—4 to 22 inches; gravelly fine sandy loam
Bx—22 to 70 inches; gravelly fine sandy loam

Minor Components

Edgemere
Percent of map unit: 3 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Shohola
Percent of map unit: 3 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Oquaga
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects

Slope: 0 to 8 percent
Hydric soil status: No

297217—Wurtsboro stony fine sandy loam, 8 to 15 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 34 to 51 inches
Mean annual air temperature: 40 to 52 degrees F
Frost-free period: 100 to 180 days

Map Unit Composition

Wurtsboro and similar soils: 88 percent
Dissimilar minor components: 12 percent

Description of Wurtsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landscape: Glaciated uplands
Landform: Hills
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 8 to 15 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Parent material: Coarse-loamy till derived from sandstone
Restrictive feature(s): Fragipan at a depth of 17 to 28 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 12 to 27 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 4 inches; stony fine sandy loam
Bw—4 to 22 inches; gravelly fine sandy loam
Bx—22 to 70 inches; gravelly fine sandy loam

Minor Components

Oquaga
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Rock outcrop
Percent of map unit: 4 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

Edgemere
Percent of map unit: 1 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 10 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Shohola
Percent of map unit: 1 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

297218—Wurtsboro stony fine sandy loam, 15 to 25 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 51 inches
Mean annual air temperature: 40 to 52 degrees F
Frost-free period: 100 to 180 days

Map Unit Composition

Wurtsboro and similar soils: 88 percent
Dissimilar minor components: 12 percent

Description of Wurtsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landscape: Glaciated uplands
Landform: Hills
Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Base slope
Slope: 15 to 25 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Parent material: Coarse-loamy till derived from sandstone
Restrictive feature(s): Fragipan at a depth of 17 to 28 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 12 to 27 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 4 inches; stony fine sandy loam
Bw—4 to 22 inches; gravelly fine sandy loam
Bx—22 to 70 inches; gravelly fine sandy loam

Minor Components

Rock outcrop
Percent of map unit: 4 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

Lordstown
Percent of map unit: 3 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Oquaga
Percent of map unit: 3 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 15 to 30 percent
Hydric soil status: No

Shohola
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

297221—Lackawanna channery loam, 3 to 8 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Lackawanna and similar soils: 81 percent
Dissimilar minor components: 19 percent

Description of Lackawanna Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Ridges, glaciated hillslopes
Landform position (two-dimensional): Summit, backslope
Landform position (three-dimensional): Mountaintop, side slope
Slope: 3 to 8 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Parent material: Reddish ablation till derived from sandstone and siltstone
Restrictive feature(s): Fragipan at a depth of 28 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 21 to 36 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Vegetation
Existing plants: Red maple, sedge, rare clubmoss, and northern red oak

Typical Profile
A—0 to 7 inches; channery loam
Bw—7 to 29 inches; fine sandy loam
Bx—29 to 75 inches; very gravelly sandy loam

Minor Components

Oquaga
Percent of map unit: 11 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Morris
Percent of map unit: 8 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

297223—Lackawanna channery loam, 15 to 30 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Lackawanna and similar soils: 75 percent
Dissimilar minor components: 24 percent

Description of Lackawanna Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Ridges, glaciated hillslopes
Landform position (two-dimensional): Summit, backslope
Landform position (three-dimensional): Mountaintop, side slope
Slope: 15 to 30 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Parent material: Reddish ablation till derived from sandstone and siltstone
Restrictive feature(s): Fragipan at a depth of 28 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 21 to 36 inches (perched)

Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Vegetation
Existing plants: Red maple, sedge, rare clubmoss, and northern red oak

Typical Profile
A—0 to 7 inches; channery loam
Bw—7 to 29 inches; fine sandy loam
Bx—29 to 75 inches; very gravelly sandy loam

Minor Components

Oquaga
Percent of map unit: 11 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 15 to 30 percent
Hydric soil status: No

Arnot
Percent of map unit: 8 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 15 percent
Hydric soil status: No

Morris
Percent of map unit: 3 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Rock outcrop
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

297224—Swartswood stony fine sandy loam, 0 to 8 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 1,800 feet

Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Swartswood and similar soils: 95 percent
Dissimilar minor components: 5 percent

Description of Swartswood Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landscape: Uplands
Landform: Hills
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Side slope
Slope: 0 to 8 percent
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Parent material: Coarse-loamy till derived from sandstone
Restrictive feature(s): Fragipan at a depth of 28 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 26 to 35 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 4 inches; stony fine sandy loam
Bw—4 to 32 inches; channery fine sandy loam
Bx—32 to 70 inches; very gravelly fine sandy loam

Minor Components

Oquaga
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

297225—Swartswood stony fine sandy loam, 8 to 15 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 1,800 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Swartswood and similar soils: 95 percent
Dissimilar minor components: 5 percent

Description of Swartswood Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landscape: Uplands
Landform: Hills
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Side slope
Slope: 8 to 15 percent
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Parent material: Coarse-loamy till derived from sandstone
Restrictive feature(s): Fragipan at a depth of 28 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 26 to 35 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 4 inches; stony fine sandy loam
Bw—4 to 32 inches; channery fine sandy loam
Bx—32 to 70 inches; very gravelly fine sandy loam

Minor Components

Oquaga
Percent of map unit: 5 percent

Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

297226—Swartswood stony fine sandy loam, 15 to 30 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 1,800 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Swartswood and similar soils: 90 percent
Dissimilar minor components: 10 percent

Description of Swartswood Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landscape: Uplands
Landform: Hills
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Side slope
Slope: 15 to 30 percent
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Parent material: Coarse-loamy till derived from sandstone
Restrictive feature(s): Fragipan at a depth of 28 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 26 to 35 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 4 inches; stony fine sandy loam

Bw—4 to 32 inches; channery fine sandy loam
Bx—32 to 70 inches; very gravelly fine sandy loam

Minor Components

Oquaga
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 15 to 30 percent
Hydric soil status: No

Arnot
Percent of map unit: 3 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 15 percent
Hydric soil status: No

Rock outcrop
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

297227—Arnot very channery loam, 3 to 15 percent slopes, very rocky

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 30 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Arnot and similar soils: 88 percent
Dissimilar minor components: 11 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope, side slope
Slope: 3 to 15 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
A—0 to 3 inches; very channery loam
Bw—3 to 10 inches; very channery loam
C—10 to 14 inches; extremely channery loam
2R—14 to 24 inches; unweathered bedrock

Minor Components

Rock outcrop
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

Mardin
Percent of map unit: 4 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Lackawanna
Percent of map unit: 1 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

297228—Arnot very channery loam, 15 to 35 percent slopes, very rocky

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 800 to 1,800 feet
Mean annual precipitation: 30 to 46 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Arnot and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope, side slope
Slope: 15 to 35 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
A—0 to 3 inches; very channery loam
Bw—3 to 10 inches; very channery loam
C—10 to 14 inches; extremely channery loam
2R—14 to 24 inches; unweathered bedrock

Minor Components

Rock outcrop
Percent of map unit: 8 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

Mardin
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Swartswood
Percent of map unit: 2 percent

Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 15 to 30 percent
Hydric soil status: No

297229—Wyoming very cobbly sandy loam, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 1,800 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 200 days

Map Unit Composition

Wyoming and similar soils: 90 percent
Dissimilar minor components: 10 percent

Description of Wyoming Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Riser
Slope: 3 to 8 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
Ap—0 to 3 inches; very cobbly sandy loam
Bw—3 to 33 inches; very cobbly fine sandy loam
C—33 to 72 inches; extremely cobbly loamy coarse sand

Minor Components

Delaware
Percent of map unit: 6 percent
Landform: Low to middle river terraces
Geomorphic position (two-dimensional): Backslope, footslope
Geomorphic position (three-dimensional): Tread
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Hydric soil status: No

Braceville
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Suncook
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

297230—Wyoming very cobbly sandy loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 1,800 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 200 days

Map Unit Composition

Wyoming and similar soils: 90 percent
Dissimilar minor components: 10 percent

Description of Wyoming Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Riser
Slope: 8 to 15 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast

Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
Ap—0 to 3 inches; very cobbly sandy loam
Bw—3 to 33 inches; very cobbly fine sandy loam
C—33 to 72 inches; extremely cobbly loamy coarse sand

Minor Components

Delaware
Percent of map unit: 6 percent
Landform: Low to middle river terraces
Geomorphic position (two-dimensional): Backslope, footslope
Geomorphic position (three-dimensional): Tread
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 25 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Hydric soil status: No

Braceville
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Suncook
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

297231—Wyoming very cobbly sandy loam, 15 to 30 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains

Elevation: 400 to 1,800 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 200 days

Map Unit Composition

Wyoming and similar soils: 90 percent
Dissimilar minor components: 10 percent

Description of Wyoming Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Riser
Slope: 15 to 30 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
A—0 to 3 inches; very cobbly sandy loam
Bw—3 to 33 inches; very cobbly fine sandy loam
C—33 to 72 inches; extremely cobbly loamy coarse sand

Minor Components

Suncook
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Delaware
Percent of map unit: 3 percent
Landform: Low to middle river terraces
Geomorphic position (two-dimensional): Backslope, footslope

Geomorphic position (three-dimensional): Tread
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 25 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Hydric soil status: No

Braceville
Percent of map unit: 1 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

297236—Suncook loamy sand, 0 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 800 feet
Mean annual precipitation: 30 to 51 inches
Mean annual air temperature: 40 to 54 degrees F
Frost-free period: 100 to 180 days

Map Unit Composition

Suncook and similar soils: 91 percent
Dissimilar minor components: 4 percent

Description of Suncook Soil

Soil Classification
Mixed, mesic Typic Udipsamments

Setting
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 0 to 8 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very low
Parent material: Sandy glaciofluvial deposits derived from sandstone
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)

Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3s
Hydric soil status: No
Hydrologic soil group: A

Vegetation
Existing plants: Striped prince's pine, groundcedar, northern bayberry, hairy moss, and lowbush blueberry

Typical Profile
A—0 to 10 inches; loamy sand
C—10 to 70 inches; sand

Minor Components

Wyalusing
Percent of map unit: 4 percent
Landform: Flood plains
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: Yes

297239—Mardin stony loam, 0 to 8 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 200 to 1,800 feet
Mean annual precipitation: 30 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 200 days

Map Unit Composition

Mardin and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Mardin Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 0 to 8 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Parent material: Loamy till
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A/E—0 to 8 inches; stony loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx1—21 to 30 inches; channery loam
Bx2—30 to 60 inches; very channery loam
Cd—60 to 80 inches; very channery loam

Minor Components

Manlius
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

Oquaga
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Edgemere
Percent of map unit: 3 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Shohola
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

297240—Mardin stony loam, 8 to 15 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 200 to 1,800 feet
Mean annual precipitation: 30 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 200 days

Map Unit Composition

Mardin and similar soils: 85 percent
Dissimilar minor components: 14 percent

Description of Mardin Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Slope: 8 to 15 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Parent material: Loamy till
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.0 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A/E—0 to 8 inches; stony loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx1—21 to 30 inches; channery loam
Bx2—30 to 60 inches; very channery loam
Cd—60 to 80 inches; very channery loam

Minor Components

Manlius
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Oquaga
Percent of map unit: 4 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Edgemere
Percent of map unit: 3 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 10 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Shohola
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

297241—Unadilla silt loam

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 895 feet
Mean annual precipitation: 42 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 145 days

Map Unit Composition

Unadilla and similar soils: 90 percent
Dissimilar minor components: 10 percent

Description of Unadilla Soil

Soil Classification
Coarse-silty, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Outwash terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread

Slope: 0 to 3 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Parent material: Outwash
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very high (about 14.7 inches)

Interpretive Groups
Land capability classification (nonirrigated): 1
Hydric soil status: No
Hydrologic soil group: B

Vegetation
Existing plants: Red maple, currant, summer grape, black raspberry, and buttercup

Typical Profile
Ap—0 to 13 inches; silt loam
Bw—13 to 49 inches; silt loam
C—49 to 80 inches; silt loam

Minor Components

Braceville
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Suncook
Percent of map unit: 4 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

297242—Shohola-Edgemere complex, 0 to 8 percent slopes, very rubbly

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 30 to 50 inches

Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Shohola and similar soils: 62 percent
Edgemere and similar soils: 29 percent
Dissimilar minor components: 9 percent

Description of Shohola Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Aeric Fragiaquepts

Setting
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Restrictive feature(s): Fragipan at a depth of 18 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 18 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 3 inches; extremely flaggy loam
B—3 to 24 inches; very flaggy loam
Bx—24 to 72 inches; very gravelly fine sandy loam

Description of Edgemere Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Fragiaquepts

Setting
Landform: Depressions
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Negligible

Restrictive feature(s): Fragipan at a depth of 15 to 25 inches
Frequency of flooding: None
Frequency of ponding: Occasional
Depth to water table: At the surface to a depth of 6 inches (perched)
Drainage class: Poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: Yes
Hydrologic soil group: D

Typical Profile
O—0 to 2 inches; extremely stony mucky peat
A/E—2 to 5 inches; extremely stony loam
Bg—5 to 24 inches; very stony sandy loam
Bx—24 to 66 inches; very gravelly sandy loam

Minor Components

Mardin
Percent of map unit: 9 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

297243—Shohola-Edgemere complex, 8 to 15 percent slopes, very rubbly

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 30 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Shohola and similar soils: 62 percent
Edgemere and similar soils: 29 percent
Dissimilar minor components: 9 percent

Description of Shohola Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Aeric Fragiaquepts

Setting
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 8 to 15 percent
Down-slope shape: Concave
Across-slope shape: Concave

Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Restrictive feature(s): Fragipan at a depth of 18 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 18 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 3 inches; extremely flaggy loam
B—3 to 24 inches; very flaggy loam
Bx—24 to 72 inches; very gravelly fine sandy loam

Description of Edgemere Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Fragiaquepts

Setting
Landform: Depressions
Slope: 8 to 15 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Negligible
Restrictive feature(s): Fragipan at a depth of 15 to 25 inches
Frequency of flooding: None
Frequency of ponding: Occasional
Depth to water table: At the surface to a depth of 6 inches (perched)
Drainage class: Poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: Yes
Hydrologic soil group: D

Typical Profile
O—0 to 2 inches; extremely stony mucky peat

A/E—2 to 5 inches; extremely stony loam
Bg—5 to 24 inches; very stony sandy loam
Bx—24 to 66 inches; very gravelly sandy loam

Minor Components

Mardin
Percent of map unit: 9 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

297244—Lordstown-Swartswood complex, 0 to 8 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Lordstown and similar soils: 40 percent
Swartswood and similar soils: 35 percent
Dissimilar minor components: 25 percent

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Crest, side slope
Slope: 0 to 8 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 3 inches; very channery loam
Bw—3 to 28 inches; gravelly fine sandy loam
C—28 to 30 inches; gravelly sandy loam
2R—30 to 40 inches; unweathered bedrock

Description of Swartswood Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landscape: Uplands
Landform: Hills
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Side slope
Slope: 0 to 8 percent
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Parent material: Coarse-loamy till derived from sandstone
Restrictive feature(s): Fragipan at a depth of 28 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 26 to 35 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 4 inches; stony fine sandy loam
Bw—4 to 32 inches; channery fine sandy loam
Bx—32 to 70 inches; very gravelly fine sandy loam

Minor Components

Arnot
Percent of map unit: 10 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 15 percent
Hydric soil status: No

Rock outcrop
Percent of map unit: 10 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

Shohola
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

297245—Lordstown-Swartswood complex, 8 to 15 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Lordstown and similar soils: 40 percent
Swartswood and similar soils: 35 percent
Dissimilar minor components: 25 percent

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Crest, side slope
Slope: 8 to 15 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 3 inches; very channery loam
Bw—3 to 28 inches; gravelly fine sandy loam
C—28 to 30 inches; gravelly sandy loam
2R—30 to 40 inches; unweathered bedrock

Description of Swartswood Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landscape: Uplands
Landform: Hills
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Side slope
Slope: 8 to 15 percent
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Parent material: Coarse-loamy till derived from sandstone
Restrictive feature(s): Fragipan at a depth of 28 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 26 to 35 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 4 inches; stony fine sandy loam
Bw—4 to 32 inches; channery fine sandy loam
Bx—32 to 70 inches; very gravelly fine sandy loam

Minor Components

Arnot
Percent of map unit: 10 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 15 percent
Hydric soil status: No

Rock outcrop
Percent of map unit: 10 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

Shohola
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

297246—Lordstown-Swartswood complex, 15 to 30 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Lordstown and similar soils: 40 percent
Swartswood and similar soils: 35 percent
Dissimilar minor components: 25 percent

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Crest, side slope
Slope: 15 to 30 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 3 inches; very channery loam
Bw—3 to 28 inches; gravelly fine sandy loam
C—28 to 30 inches; gravelly sandy loam
2R—30 to 40 inches; unweathered bedrock

Description of Swartswood Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landscape: Uplands
Landform: Hills
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Side slope
Slope: 15 to 30 percent
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Parent material: Coarse-loamy till derived from sandstone
Restrictive feature(s): Fragipan at a depth of 28 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 26 to 35 inches (perched)
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 4 inches; stony fine sandy loam
Bw—4 to 32 inches; channery fine sandy loam
Bx—32 to 70 inches; very gravelly fine sandy loam

Minor Components

Arnot
Percent of map unit: 10 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 15 percent
Hydric soil status: No

Rock outcrop
Percent of map unit: 10 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

Shohola
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

297247—Chenango gravelly fine sandy loam, 0 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 1,400 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 45 to 57 degrees F
Frost-free period: 110 to 200 days

Map Unit Composition

Chenango and similar soils: 86 percent
Dissimilar minor components: 14 percent

Description of Chenango Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Glacial outwash terraces
Landform position (three-dimensional): Riser
Slope: 0 to 8 percent
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very low
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 2s

Hydric soil status: No
Hydrologic soil group: A

Typical Profile
Ap—0 to 10 inches; gravelly fine sandy loam
Bw—10 to 29 inches; very gravelly fine sandy loam
2C—29 to 70 inches; extremely gravelly loamy coarse sand

Minor Components

Delaware
Percent of map unit: 7 percent
Landform: Low to middle river terraces
Geomorphic position (two-dimensional): Backslope, footslope
Geomorphic position (three-dimensional): Tread
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Hydric soil status: No

Braceville
Percent of map unit: 3 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Philo
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Unadilla
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

297248—Chenango gravelly fine sandy loam, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 1,095 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 200 days

Map Unit Composition

Chenango and similar soils: 85 percent
Dissimilar minor components: 15 percent

Description of Chenango Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Glacial outwash terraces
Landform position (three-dimensional): Riser
Slope: 8 to 15 percent
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 3e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
Ap—0 to 10 inches; gravelly fine sandy loam
Bw—10 to 29 inches; very gravelly fine sandy loam
2C—29 to 70 inches; extremely gravelly loamy coarse sand

Minor Components

Delaware
Percent of map unit: 9 percent
Landform: Low to middle river terraces
Geomorphic position (two-dimensional): Backslope, footslope
Geomorphic position (three-dimensional): Tread
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 25 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Hydric soil status: No

Unadilla
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

297249—Chenango gravelly fine sandy loam, 15 to 25 percent slopes

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 400 to 1,095 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 200 days

Map Unit Composition

Chenango and similar soils: 90 percent
Dissimilar minor components: 10 percent

Description of Chenango Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landform: Glacial outwash terraces
Landform position (three-dimensional): Riser
Slope: 15 to 25 percent
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 4e
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
Ap—0 to 10 inches; gravelly fine sandy loam
Bw—10 to 29 inches; very gravelly fine sandy loam
2C—29 to 70 inches; extremely gravelly loamy coarse sand

Minor Components

Delaware
Percent of map unit: 8 percent
Landform: Low to middle river terraces
Geomorphic position (two-dimensional): Backslope, footslope
Geomorphic position (three-dimensional): Tread

Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 25 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Hydric soil status: No

Unadilla
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

297250—Lordstown very channery loam, 3 to 8 percent slopes, very stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 750 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Lordstown and similar soils: 94 percent
Dissimilar minor components: 6 percent

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Crest, side slope
Slope: 3 to 8 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 3 inches; very channery loam
Bw—3 to 28 inches; gravelly fine sandy loam
C—28 to 30 inches; gravelly sandy loam
2R—30 to 40 inches; unweathered bedrock

Minor Components

Arnot
Percent of map unit: 3 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 15 percent
Hydric soil status: No

Swartswood
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Rock outcrop
Percent of map unit: 1 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

297251—Lordstown very channery loam, 8 to 15 percent slopes, very stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 750 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Lordstown and similar soils: 86 percent
Dissimilar minor components: 14 percent

Description of Lordstown Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Crest, side slope

Slope: 8 to 15 percent
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 3 inches; very channery loam
Bw—3 to 28 inches; gravelly fine sandy loam
C—28 to 30 inches; gravelly sandy loam
2R—30 to 40 inches; unweathered bedrock

Minor Components

Swartswood
Percent of map unit: 7 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 8 to 15 percent
Hydric soil status: No

Arnot
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 15 percent
Hydric soil status: No

Rock outcrop
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

297253—Craigsville-Wyoming complex, 0 to 8 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains

Elevation: 400 to 3,500 feet
Mean annual precipitation: 30 to 50 inches
Mean annual air temperature: 45 to 57 degrees F
Frost-free period: 110 to 190 days

Map Unit Composition

Craigsville and similar soils: 50 percent
Wyoming and similar soils: 40 percent
Dissimilar minor components: 10 percent

Description of Craigsville Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Fluventic Dystrudepts

Setting
Landscape: Mountains
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 0 to 5 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very low
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Depth to water table: About 36 to 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 6.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: B

Vegetation
Existing plants: Flowering dogwood, mountain laurel, sweetgum, tuliptree, shortleaf pine, eastern white pine, white oak, northern red oak, and coralberry

Typical Profile
A—0 to 5 inches; very gravelly loam
Bw—5 to 27 inches; very gravelly sandy loam
C—27 to 77 inches; extremely cobbly loamy sand

Description of Wyoming Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Typic Dystrudepts

Setting
Landform: Terraces

Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Riser
Slope: 0 to 8 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very low
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 3.9 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: A

Typical Profile
A—0 to 3 inches; very cobbly sandy loam
Bw—3 to 33 inches; very cobbly fine sandy loam
C—33 to 72 inches; extremely cobbly loamy coarse sand

Minor Components

Wyalusing
Percent of map unit: 6 percent
Landform: Flood plains
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Down-slope shape: Linear
Across-slope shape: Concave
Hydric soil status: Yes

Philo
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

Pope
Percent of map unit: 2 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 3 percent
Hydric soil status: No

297254—Pits, shale, and gravel

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Mean annual precipitation: 36 to 46 inches
Mean annual air temperature: 46 to 56 degrees F
Frost-free period: 135 to 170 days

Map Unit Composition

Pits, shale: 40 percent
Pits, gravel: 40 percent

Description of Pits, Shale

Setting
Slope: 0 to 40 percent
Aspect (representative): Southeast
Aspect (range): All aspects

Properties and Qualities
Runoff: Medium
Restrictive feature(s): Paralithic bedrock at the surface to a depth of 2 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Excessively drained
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Land capability classification (nonirrigated): 8e
Hydric soil status: No
Hydrologic soil group: D

Typical Profile
C—0 to 1 inch; channers
R—1 to 2 inches; bedrock

Description of Pits, Gravel

Setting
Slope: 0 to 40 percent
Aspect (representative): Southeast
Aspect (range): All aspects

Properties and Qualities
Runoff: Medium
Restrictive feature(s): None within a depth of 60 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Excessively drained
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Land capability classification (nonirrigated): 8e
Hydric soil status: No
Hydrologic soil group: A

309440—Edgemere-Shohola complex, 3 to 15 percent slopes, very rubbly

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 30 to 50 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Edgemere and similar soils: 42 percent
Shohola and similar soils: 42 percent
Dissimilar minor components: 16 percent

Description of Edgemere Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Fragiaquepts

Setting
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Mountainbase, base slope, flat
Slope: 3 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Negligible
Restrictive feature(s): Fragipan at a depth of 15 to 25 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Depth to water table: At the surface to a depth of 6 inches (perched)
Drainage class: Very poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 5.2 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: Yes
Hydrologic soil group: D

Typical Profile
Oe—0 to 2 inches; extremely stony mucky peat
A/E—2 to 5 inches; extremely stony loam
Bg—5 to 24 inches; very stony loam
Bx—24 to 66 inches; very gravelly sandy loam

Description of Shohola Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Aeric Fragiaquepts

Setting
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Slope: 3 to 15 percent
Down-slope shape: Concave
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Very high
Restrictive feature(s): Fragipan at a depth of 18 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 6 to 18 inches (perched)
Drainage class: Somewhat poorly drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Low (about 4.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 3 inches; very flaggy loam
B—3 to 24 inches; very flaggy loam
Bx—24 to 72 inches; very flaggy fine sandy loam

Minor Components

Mardin
Percent of map unit: 11 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Freetown
Percent of map unit: 5 percent
Landform: Swamps
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 2 percent
Hydric soil status: Yes

319863—Oquaga-Arnot-Rock outcrop complex, 20 to 60 percent slopes, very rubbly

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 695 to 1,800 feet

Mean annual precipitation: 32 to 51 inches
Mean annual air temperature: 40 to 52 degrees F
Frost-free period: 100 to 180 days

Map Unit Composition

Oquaga and similar soils: 40 percent
Arnot and similar soils: 30 percent
Rock outcrop: 20 percent
Dissimilar minor components: 10 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landscape: Glaciated uplands
Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Slope: 20 to 60 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Parent material: Reddish ablation till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 2 inches; very stony loam
Bw—2 to 26 inches; very stony loam
C—26 to 32 inches; extremely stony sandy loam
R—32 to 42 inches; unweathered bedrock

Description of Arnot Soil

Soil Classification
Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope, side slope

Slope: 20 to 60 percent
Down-slope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: High
Parent material: Till derived from sandstone, siltstone, and shale
Restrictive feature(s): Lithic bedrock at a depth of 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Somewhat excessively drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 1.5 inches)

Interpretive Groups
Land capability classification (nonirrigated): 7s
Hydric soil status: No
Hydrologic soil group: C/D

Typical Profile
A—0 to 3 inches; very channery loam
Bw—3 to 14 inches; very channery silt loam
2R—14 to 24 inches; unweathered bedrock

Description of Rock Outcrop

Setting
Slope: 20 to 60 percent
Aspect (representative): Southeast
Aspect (range): All aspects

Properties and Qualities
Restrictive feature(s): Lithic bedrock at the surface
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Calcium carbonate equivalent (maximum weight percentage): 0

Interpretive Groups
Land capability classification (nonirrigated): 8
Hydric soil status: No

Minor Components

Lackawanna
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 15 to 30 percent
Hydric soil status: No

Wellsboro
Percent of map unit: 4 percent

Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 15 to 25 percent
Hydric soil status: No

319865—Wellsboro stony loam, 0 to 8 percent slopes, extremely stony

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Wellsboro and similar soils: 89 percent
Dissimilar minor components: 11 percent

Description of Wellsboro Soil

Soil Classification
Coarse-loamy, mixed, active, mesic Typic Fragiudepts

Setting
Landform: Valley sides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Medium
Parent material: Reddish ablation till derived from sandstone and siltstone
Restrictive feature(s): Fragipan at a depth of 14 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: About 11 to 22 inches (perched)
Drainage class: Moderately well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Moderate (about 7.4 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Vegetation
Existing plants: Sugar maple, sedge, woodfern, American beech, and American witchhazel

Typical Profile
A—0 to 8 inches; stony loam
Bw—8 to 17 inches; channery loam
BE—17 to 21 inches; channery loam
Bx—21 to 60 inches; very gravelly fine sandy loam
C—60 to 80 inches; very gravelly sandy loam

Minor Components

Oquaga
Percent of map unit: 6 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Edgemere
Percent of map unit: 3 percent
Landform: Depressions
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil status: Yes

Rock outcrop
Percent of map unit: 1 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Hydric soil status: No

Shohola
Percent of map unit: 1 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

741008—Oquaga very stony loam, 0 to 8 percent slopes, extremely bouldery

Map Unit Setting

Major land resource area (MLRA): 140—Glaciated Allegheny Plateau and Catskill Mountains
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days

Map Unit Composition

Oquaga and similar soils: 78 percent
Dissimilar minor components: 13 percent

Description of Oquaga Soil

Soil Classification
Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts

Setting
Landscape: Glaciated uplands
Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Slope: 0 to 8 percent
Down-slope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): All aspects
Soil temperature regime: Mesic

Properties and Qualities
Runoff: Low
Parent material: Reddish ablation till derived from sandstone and siltstone
Restrictive feature(s): Lithic bedrock at a depth of 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Depth to water table: More than 72 inches
Drainage class: Well drained
Shrink-swell potential: Low (about 1.5 percent linear extensibility)
Calcium carbonate equivalent (maximum weight percentage): 0
Available water capacity: Very low (about 2.6 inches)

Interpretive Groups
Land capability classification (nonirrigated): 6s
Hydric soil status: No
Hydrologic soil group: C

Typical Profile
A—0 to 2 inches; very stony loam
Bw—2 to 26 inches; very stony silt loam
C—26 to 32 inches; extremely stony sandy loam
R—32 to 42 inches; unweathered bedrock

Minor Components

Lackawanna
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 3 to 8 percent
Hydric soil status: No

Wellsboro
Percent of map unit: 5 percent
Aspect (representative): Southeast
Aspect (range): All aspects

Slope: 0 to 8 percent
Hydric soil status: No

Shohola
Percent of map unit: 3 percent
Aspect (representative): Southeast
Aspect (range): All aspects
Slope: 0 to 8 percent
Hydric soil status: No

Use and Management of the Soils

This soil survey is an inventory and evaluation of the soils along the Upper Delaware National Scenic and Recreational River. It can be used to adjust land uses to the limitations and potentials of natural resources and the environment. Also, it can help to prevent soil-related failures in land uses.

In preparing a soil survey, soil scientists, conservationists, engineers, and others collect extensive field data about the nature and behavioral characteristics of the soils. They collect data on erosion, droughtiness, flooding, and other factors that affect various soil uses and management. Field experience and collected data on soil properties and performance are used as a basis in predicting soil behavior.

Information in this section can be used to plan the use and management of soils as rangeland and as sites for buildings, sanitary facilities, highways and other transportation systems, and recreational facilities. It can be used to identify the potentials and limitations of each soil for specific land uses and to help prevent construction failures caused by unfavorable soil properties.

Planners and others using soil survey information can evaluate the effect of specific land uses on productivity and on the environment in all or part of the park. The survey can help planners to maintain or create a land use pattern in harmony with the natural soil.

Contractors can use this survey to locate sources of sand and gravel, reclamation material, roadfill, and topsoil. They can use it to identify areas where bedrock, wetness, or very firm soil layers can cause difficulty in excavation.

Health officials, highway officials, engineers, and others may also find this survey useful. The survey can help them plan the safe disposal of wastes and locate sites for pavements, sidewalks, campgrounds, playgrounds, and trails.

Interpretive Ratings

The interpretive tables in this survey rate the soils in the park for various uses. Many of the tables identify the limitations that affect specified uses and indicate the severity of those limitations. The ratings in these tables are both verbal and numerical.

Rating Class Terms

Rating classes are expressed in the tables in terms that indicate the extent to which the soils are limited by all of the soil features that affect a specified use or in terms that indicate the suitability of the soils for the use. Thus, the tables may show limitation classes or suitability classes. Terms for the limitation classes are *not limited, slightly limited, somewhat limited,* and *very limited*. The suitability ratings are expressed as *well suited, moderately well suited, poorly suited,* and *unsuited* or as *good, fair,* and *poor*.

Numerical Ratings

Numerical ratings in the tables indicate the relative severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact

on the use and the point at which the soil feature is not a limitation. The limitations appear in order from the most limiting to the least limiting. Thus, if more than one limitation is identified, the most severe limitation is listed first and the least severe one is listed last.

Land Capability Classification

Land capability classification shows, in a general way, the suitability of soils for most kinds of field crops. Crops that require special management are excluded. The soils are grouped according to their limitations for field crops, the risk of damage if they are used for crops, and the way they respond to management. The criteria used in grouping the soils do not include major and generally expensive landforming that would change slope, depth, or other characteristics of the soils, nor do they include possible but unlikely major reclamation projects. Capability classification is not a substitute for interpretations designed to show suitability and limitations of groups of soils for rangeland, for forestland, or for engineering purposes.

In the capability system, soils are generally grouped at three levels—capability class, subclass, and unit (USDA–SCS, 1961).

Capability classes, the broadest groups, are designated by the numbers 1 through 8. The numbers indicate progressively greater limitations and narrower choices for practical use. The classes are defined as follows:

Class 1 soils have slight limitations that restrict their use.

Class 2 soils have moderate limitations that restrict the choice of plants or that require moderate conservation practices.

Class 3 soils have severe limitations that restrict the choice of plants or that require special conservation practices, or both.

Class 4 soils have very severe limitations that restrict the choice of plants or that require very careful management, or both.

Class 5 soils are subject to little or no erosion but have other limitations, impractical to remove, that restrict their use mainly to pasture, rangeland, forestland, or wildlife habitat.

Class 6 soils have severe limitations that make them generally unsuitable for cultivation and that restrict their use mainly to pasture, rangeland, forestland, or wildlife habitat.

Class 7 soils have very severe limitations that make them unsuitable for cultivation and that restrict their use mainly to grazing, forestland, or wildlife habitat.

Class 8 soils and miscellaneous areas have limitations that preclude commercial plant production and that restrict their use to recreational purposes, wildlife habitat, watershed, or esthetic purposes.

Capability subclasses are soil groups within one class. They are designated by adding a small letter, *e, w, s,* or *c,* to the class numeral, for example, 2e. The letter *e* shows that the main hazard is the risk of erosion unless close-growing plant cover is maintained; *w* shows that water in or on the soil interferes with plant growth or cultivation (in some soils the wetness can be partly corrected by artificial drainage); *s* shows that the soil is limited mainly because it is shallow, droughty, or stony; and *c,* used in only some parts of the United States, shows that the chief limitation is climate that is very cold or very dry.

In class 1 there are no subclasses because the soils of this class have few limitations. Class 5 contains only the subclasses indicated by *w, s,* or *c* because the soils in class 5 are subject to little or no erosion. They have other limitations that restrict their use to pasture, rangeland, forestland, wildlife habitat, or recreation.

Capability units are soil groups within a subclass. The soils in a capability unit are enough alike to be suited to the same crops and pasture plants, to require similar management, and to have similar productivity. Capability units are generally

designated by adding an Arabic numeral to the subclass symbol, for example, 2e-4. These units are not given in all soil surveys.

The capability classification of each map unit in this park is given in the section "Detailed Soil Map Units" and in table 2.

Prime Farmland and Other Important Farmlands

Table 3 lists the map units in the park that are considered important farmlands. Important farmlands consist of prime farmland and farmland of statewide importance. This list does not constitute a recommendation for a particular land use.

In an effort to identify the extent and location of important farmlands, the Natural Resources Conservation Service, in cooperation with other interested Federal, State, and local government organizations, has inventoried land that can be used for the production of the Nation's food supply.

Prime farmland is of major importance in meeting the Nation's short- and long-range needs for food and fiber. Because the supply of high-quality farmland is limited, the U.S. Department of Agriculture recognizes that responsible levels of government, as well as individuals, should encourage and facilitate the wise use of our Nation's prime farmland.

Prime farmland, as defined by the U.S. Department of Agriculture, is land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops and is available for these uses. It could be cultivated land, pastureland, forestland, or other land, but it is not urban or built-up land or water areas. The soil quality, growing season, and moisture supply are those needed for the soil to economically produce sustained high yields of crops when proper management, including water management, and acceptable farming methods are applied. In general, prime farmland has an adequate and dependable supply of moisture from precipitation or irrigation, a favorable temperature and growing season, acceptable acidity or alkalinity, an acceptable salt and sodium content, and few or no rocks. The water supply is dependable and of adequate quality. Prime farmland is permeable to water and air. It is not excessively erodible or saturated with water for long periods, and it either is not frequently flooded during the growing season or is protected from flooding. Slope ranges mainly from 0 to 6 percent. More detailed information about the criteria for prime farmland is available at the local office of the Natural Resources Conservation Service.

A recent trend in land use in some areas has been the loss of some prime farmland to industrial and urban uses. The loss of prime farmland to other uses puts pressure on marginal lands, which generally are more erodible, droughty, and less productive and cannot be easily cultivated.

In some areas, land that does not meet the criteria for prime farmland is considered to be *farmland of statewide importance* for the production of food, feed, fiber, forage, and oilseed crops. The criteria for defining and delineating farmland of statewide importance are determined by the appropriate State agencies. Generally, this land includes areas of soils that nearly meet the requirements for prime farmland and that economically produce high yields of crops when treated and managed according to acceptable farming methods. Some areas may produce as high a yield as prime farmland if conditions are favorable. Farmland of statewide importance may include tracts of land that have been designated for agriculture by State law.

Hydric Soils

Table 4 lists the map unit components that are rated as hydric soils in the park. This list can help in planning land uses; however, onsite investigation is recommended to determine the hydric soils on a specific site (National Research Council, 1995; USDA–NRCS, 2010).

The three essential characteristics of wetlands are hydrophytic vegetation, hydric soils, and wetland hydrology (Cowardin and others, 1979; U.S. Army Corps of Engineers, 1987; National Research Council, 1995; Tiner, 1985). Criteria for all of the characteristics must be met for areas to be identified as wetlands. Undrained hydric soils that have natural vegetation should support a dominant population of ecological wetland plant species. Hydric soils that have been converted to other uses should be capable of being restored to wetlands.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). These soils, under natural conditions, are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2010) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (USDA–NRCS, 2010).

Hydric soils are identified by examining and describing the soil to a depth of about 20 inches. This depth may be greater if determination of an appropriate indicator so requires. It is always recommended that soils be excavated and described to the depth necessary for an understanding of the redoximorphic processes. Then, using the completed soil descriptions, soil scientists can compare the soil features required by each indicator and specify which indicators have been matched with the conditions observed in the soil. The soil can be identified as a hydric soil if at least one of the approved indicators is present.

Map units that are dominantly made up of hydric soils may have small areas, or inclusions, of nonhydric soils in the higher positions on the landform, and map units dominantly made up of nonhydric soils may have inclusions of hydric soils in the lower positions on the landform.

The criteria for hydric soils are represented by codes in the table (for example, 2B3). Definitions for the codes are as follows:

1. All Histels except for Folistels and Histosols except for Folists.
2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Historthels great group, Histoturbels great group, Pachic subgroups, or Cumulic subgroups that:
    A. are somewhat poorly drained and have a water table at the surface (0.0 feet) during the growing season, or
    B. are poorly drained or very poorly drained and have either:
        1) a water table at the surface (0.0 feet) during the growing season if textures are coarse sand, sand, or fine sand in all layers within a depth of 20 inches, or
        2) a water table at a depth of 0.5 foot or less during the growing season if saturated hydraulic conductivity (K_{sat}) is equal to or greater than 6.0 in/hr in all layers within a depth of 20 inches, or

3) a water table at a depth of 1.0 foot or less during the growing season if saturated hydraulic conductivity (K_{sat}) is less than 6.0 in/hr in any layer within a depth of 20 inches.

3. Soils that are frequently ponded for periods of long or very long duration during the growing season.
4. Soils that are frequently flooded for periods of long or very long duration during the growing season.

Landform and Parent Material

Table 5 displays information about the relationships between soils and landforms and parent materials.

Percent of the map unit is the extent of the named soil in the map unit.

Slope is the inclination of the land surface from the horizontal. Percentage of slope is the vertical distance divided by horizontal distance, then multiplied by 100. Thus, a slope of 20 percent is a drop of 20 feet in 100 feet of horizontal distance. The table shows the low and high range of slope for the named component or soil.

Elevation is the height of an object or area on the earth's surface in reference to a fixed reference point, such as mean sea level. The typical low and high range of elevation is displayed for each soil.

MAP is the mean annual precipitation for areas of the soil in the map unit.

Landform is a specific shape of the earth in the area where a soil typically occurs. Examples are a valley bottom and a mountain summit.

Parent material is the material in which soils formed. Examples are the underlying geological material (including bedrock), a surficial deposit (such as eolian sand), and organic material. Soils inherit their chemical and physical properties from the parent material.

Land Management

In tables 6a through 6d, interpretive ratings are given for various aspects of land management. The ratings are both verbal and numerical.

Some rating class terms indicate the degree to which the soils are suited to a specified land management practice. *Well suited* indicates that the soil has features that are favorable for the specified practice and has no limitations. Good performance can be expected, and little or no maintenance is needed. *Moderately suited* indicates that the soil has features that are moderately favorable for the specified practice. One or more soil properties are less than desirable, and fair performance can be expected. Some maintenance is needed. *Poorly suited* indicates that the soil has one or more properties that are unfavorable for the specified practice. Overcoming the unfavorable properties requires special design, extra maintenance, and costly alteration. *Unsuited* indicates that the expected performance of the soil is unacceptable for the specified practice or that extreme measures are needed to overcome the undesirable soil properties.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the specified land management practice (1.00) and the point at which the soil feature is not a limitation (0.00).

Rating class terms for *fire damage* and *seedling mortality* are expressed as low, moderate, and high. Where these terms are used, the numerical ratings indicate gradations between the point at which the potential for fire damage or seedling mortality is highest (1.00) and the point at which the potential is lowest (0.00).

Rating class terms for *hazard of erosion* are expressed as slight, moderate, severe, and very severe. Where these terms are used, the numerical ratings indicate

gradations between the point at which the potential for erosion is highest (1.00) and the point at which the potential is lowest (0.00).

The paragraphs that follow indicate the soil properties considered in rating the soils for land management practices.

Table 6a

Ratings in the columns *suitability for hand planting* and *suitability for mechanical planting* are based on slope, depth to a restrictive layer, content of sand, plasticity index, rock fragments on or below the surface, depth to a water table, and ponding. The soils are described as well suited, moderately suited, poorly suited, or unsuited to these methods of planting. It is assumed that necessary site preparation is completed before seedlings are planted.

Ratings in the column *soil rutting hazard* are based on depth to a water table, rock fragments on or below the surface, the Unified classification, depth to a restrictive layer, and slope. Ruts form as a result of the operation of planting equipment. The hazard is described as slight, moderate, or severe. A rating of *slight* indicates that the soil is subject to little or no rutting, *moderate* indicates that rutting is likely, and *severe* indicates that ruts form readily.

Table 6b

Ratings in the column *hazard of erosion* are based on slope and on soil erodibility factor K. The soil loss is caused by sheet or rill erosion in areas where 50 to 75 percent of the surface has been exposed by different kinds of disturbance. The hazard is described as slight, moderate, severe, or very severe. A rating of *slight* indicates that erosion is unlikely under ordinary climatic conditions; *moderate* indicates that some erosion is likely and that erosion-control measures may be needed; *severe* indicates that erosion is very likely and that erosion-control measures, including revegetation of bare areas, are advised; and *very severe* indicates that significant erosion is expected, loss of soil productivity and off-site damage are likely, and erosion-control measures are costly and generally impractical.

Ratings in the column *hazard of erosion on roads and trails* are based on the soil erodibility factor K, slope, and content of rock fragments. The ratings apply to unsurfaced roads and trails. The hazard is described as slight, moderate, or severe. A rating of *slight* indicates that little or no erosion is likely; *moderate* indicates that some erosion is likely, that the roads or trails may require occasional maintenance, and that simple erosion-control measures are needed; and *severe* indicates that significant erosion is expected, that the roads or trails require frequent maintenance, and that costly erosion-control measures are needed.

Ratings in the column *suitability for roads (natural surface)* are based on slope, rock fragments on the surface, plasticity index, content of sand, the Unified classification, depth to a water table, ponding, flooding, and the hazard of soil slippage. The ratings indicate the suitability for using the natural surface of the soil for roads. The soils are described as well suited, moderately suited, or poorly suited to this use.

Table 6c

Ratings in the column *suitability for mechanical site preparation (deep)* are based on slope, depth to a restrictive layer, rock fragments on or below the surface, depth to a water table, and ponding. The soils are described as well suited, poorly suited, or unsuited to this management activity. The part of the soil from the surface to a depth of about 3 feet is considered in the ratings.

Ratings in the column *suitability for mechanical site preparation (surface)* are based on slope, depth to a restrictive layer, plasticity index, rock fragments on or below the surface, depth to a water table, and ponding. The soils are described as well suited,

poorly suited, or unsuited to this management activity. The part of the soil from the surface to a depth of about 1 foot is considered in the ratings.

Table 6d

Ratings in the column *potential for damage to soil by fire* are based on texture of the surface layer, content of rock fragments and organic matter in the surface layer, thickness of the surface layer, and slope. The soils are described as having a low, moderate, or high potential for this kind of damage. The ratings indicate an evaluation of the potential impact of prescribed fires or wildfires that are intense enough to remove the duff layer and consume organic matter in the surface layer.

Ratings in the column *potential for seedling mortality* are based on flooding, ponding, depth to a water table, content of lime, reaction, salinity, available water capacity, soil moisture regime, soil temperature regime, aspect, and slope. The soils are described as having a low, moderate, or high potential for seedling mortality.

Recreational Development

The soils of the park are rated in tables 7a and 7b according to limitations that affect their suitability for recreation. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the recreational uses. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The ratings in the tables are based on restrictive soil features, such as wetness, slope, and texture of the surface layer. Susceptibility to flooding is considered. Not considered in the ratings, but important in evaluating a site, are the location and accessibility of the area, the size and shape of the area and its scenic quality, vegetation, access to water, potential water impoundment sites, and access to public sewer lines. The capacity of the soil to absorb septic tank effluent and the ability of the soil to support vegetation also are important. Soils that are subject to flooding are limited for recreational uses by the duration and intensity of flooding and the season when flooding occurs. In planning recreational facilities, onsite assessment of the height, duration, intensity, and frequency of flooding is essential.

The information in the tables can be supplemented by other information in this survey, for example, interpretations for dwellings and small commercial buildings, gravel and sand, and ponds and embankments.

Table 7a

Camp areas require site preparation, such as shaping and leveling the tent and parking areas, stabilizing roads and intensively used areas, and installing sanitary facilities and utility lines. Camp areas are subject to heavy foot traffic and some vehicular traffic. The ratings are based on the soil properties that affect the ease of developing camp areas and the performance of the areas after development. Slope, stoniness, and depth to bedrock or a cemented pan are the main concerns affecting the development of camp areas. The soil properties that affect the performance of the

areas after development are those that influence trafficability and promote the growth of vegetation, especially in heavily used areas. For good trafficability, the surface of camp areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Picnic areas are subject to heavy foot traffic. Most vehicular traffic is confined to access roads and parking areas. The ratings are based on the soil properties that affect the ease of developing picnic areas and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of picnic areas. For good trafficability, the surface of picnic areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Table 7b

Foot traffic and equestrian trails for hiking and horseback riding should require little or no slope modification through cutting and filling. The ratings are based on the soil properties that affect trafficability and erodibility. These properties are stoniness, depth to a water table, ponding, flooding, slope, and texture of the surface layer.

Mountain bike and off-road vehicle trails require little or no site preparation. They are not covered with surfacing material or vegetation. Considerable compaction of the soil material is likely. The ratings are based on the soil properties that influence erodibility, trafficability, dustiness, and the ease of revegetation. These properties are stoniness, depth to a water table, ponding, slope, flooding, and texture of the surface layer.

Engineering

This section provides information for planning land uses related to urban development and to water management. Soils are rated for various uses, and the most limiting features are identified. Ratings are given for building site development, landscaping, sanitary facilities, construction materials, and water management. The ratings are based on observed performance of the soils and on the estimated data and test data in the “Soil Properties” section.

Information in this section is intended for land use planning, for evaluating land use alternatives, and for planning site investigations prior to design and construction. The information, however, has limitations. For example, estimates and other data generally apply only to that part of the soil between the surface and a depth of 5 to 7 feet. Because of the map scale, small areas of different soils may be included within the mapped areas of a specific soil.

The information is not site specific and does not eliminate the need for onsite investigation of the soils or for testing and analysis by personnel experienced in the design and construction of engineering works.

Government ordinances and regulations that restrict certain land uses or impose specific design criteria were not considered in preparing the information in this section. Local ordinances and regulations should be considered in planning, in site selection, and in design.

Soil properties, site features, and observed performance were considered in determining the ratings in this section. During the fieldwork for this soil survey, determinations were made about particle-size distribution, liquid limit, plasticity index, soil reaction, depth to bedrock, hardness of bedrock within 5 to 7 feet of the surface,

soil wetness, depth to a water table, ponding, slope, likelihood of flooding, natural soil structure aggregation, and soil density. Data were collected about kinds of clay minerals, mineralogy of the sand and silt fractions, and the kinds of adsorbed cations. Estimates were made for erodibility, permeability, corrosivity, shrink-swell potential, available water capacity, and other behavioral characteristics affecting engineering uses.

This information can be used to evaluate the potential of areas for residential, commercial, and recreational uses; make preliminary estimates of construction conditions; evaluate alternative routes for roads, streets, highways, pipelines, and underground cables; evaluate alternative sites for septic tank absorption fields and sewage lagoons; plan detailed onsite investigations of soils and geology; locate potential sources of gravel, sand, earthfill, and topsoil; plan drainage systems, ponds, and other structures for soil and water conservation; and predict performance of proposed small structures and pavements by comparing the performance of existing similar structures on the same or similar soils.

The information in the tables, along with the soil map, the soil descriptions, and other data provided in this survey, can be used to make additional interpretations.

Some of the terms used in this soil survey have a special meaning in soil science and are defined in the Glossary.

Dwellings and Small Commercial Buildings

Soil properties influence the development of building sites, including the selection of the site, the design of the structure, construction, performance after construction, and maintenance. Table 8 shows the degree and kind of soil limitations that affect dwellings and small commercial buildings.

The ratings in the table are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect building site development. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Dwellings are single-family houses of three stories or less. For dwellings without basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. For dwellings with basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of about 7 feet. The ratings for dwellings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility. Compressibility is inferred from the Unified classification. The properties that affect the ease and amount of excavation include depth to a water table, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

Small commercial buildings are structures that are less than three stories high and do not have basements. The foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. The ratings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility (which is inferred from the Unified classification). The properties that affect the ease and amount of excavation include flooding, depth to a water table, ponding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

Roads and Streets, Shallow Excavations, and Landscaping

Soil properties influence the development of building sites, including the selection of the site, the design of the structure, construction, performance after construction, and maintenance. Table 9 shows the degree and kind of soil limitations that affect local roads and streets, shallow excavations, and landscaping.

The ratings in the table are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect building site development. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Local roads and streets have an all-weather surface and carry automobile and light truck traffic all year. They have a subgrade of cut or fill soil material; a base of gravel, crushed rock, or soil material stabilized by lime or cement; and a surface of flexible material (asphalt), rigid material (concrete), or gravel with a binder. The ratings are based on the soil properties that affect the ease of excavation and grading and the traffic-supporting capacity. The properties that affect the ease of excavation and grading are depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, depth to a water table, ponding, flooding, the amount of large stones, and slope. The properties that affect the traffic-supporting capacity are soil strength (as inferred from the AASHTO group index number), subsidence, linear extensibility (shrink-swell potential), the potential for frost action, depth to a water table, and ponding.

Shallow excavations are trenches or holes dug to a maximum depth of 5 or 6 feet for graves, utility lines, open ditches, or other purposes. The ratings are based on the soil properties that influence the ease of digging and the resistance to sloughing. Depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, the amount of large stones, and dense layers influence the ease of digging, filling, and compacting. Depth to the seasonal high water table, flooding, and ponding may restrict the period when excavations can be made. Slope influences the ease of using machinery. Soil texture, depth to the water table, and linear extensibility (shrink-swell potential) influence the resistance to sloughing.

Landscaping requires soils on which turf, trees, and shrubs can be established and maintained. Irrigation is not considered in the ratings. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to a water table; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40 inches; the content of salts, sodium, or calcium carbonate; and sulfidic materials. The properties that affect trafficability are flooding, depth to a water table, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer.

Septic Tank Absorption Fields

New York and Pennsylvania have separate requirements for design of septic systems. Table 10 shows the degree and kind of soil limitations that affect septic tank absorption fields. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect these uses. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Septic tank absorption fields are areas in which effluent from a septic tank is distributed into the soil through subsurface tiles or perforated pipe. Only that part of the soil between depths of 24 and 72 inches or between a depth of 24 inches and a restrictive layer is evaluated. The ratings are based on the soil properties that affect absorption of the effluent, construction and maintenance of the system, and public health. Saturated hydraulic conductivity (K_{sat}), depth to a water table, ponding, depth to bedrock or a cemented pan, and flooding affect absorption of the effluent. Stones and boulders, ice, and bedrock or a cemented pan interfere with installation. Subsidence interferes with installation and maintenance. Excessive slope may cause lateral seepage and surfacing of the effluent in downslope areas.

Some soils are underlain by loose sand and gravel or fractured bedrock at a depth of less than 4 feet below the distribution lines. In these soils the absorption field may not adequately filter the effluent, particularly when the system is new. As a result, the ground water may become contaminated.

Source of Gravel and Sand

Table 11 gives information about the soils as potential sources of gravel and sand. Normal compaction, minor processing, and other standard construction practices are assumed.

Gravel and *sand* are natural aggregates suitable for commercial use with a minimum of processing. They are used in many kinds of construction. Specifications for each use vary widely. Only the likelihood of finding material in suitable quantity is evaluated. The suitability of the material for specific purposes is not evaluated, nor are factors that affect excavation of the material. The properties used to evaluate the soil as a source of gravel or sand are gradation of grain sizes (as indicated by the Unified classification of the soil), the thickness of suitable material, and the content of rock

fragments. If the bottom layer of the soil contains gravel or sand, the soil is considered a likely source regardless of thickness. The assumption is that the gravel or sand layer below the depth of observation exceeds the minimum thickness. The ratings are for the whole soil, from the surface to a depth of about 6 feet.

The soils are rated *good, fair,* or *poor* as potential sources of gravel and sand. A rating of *good* or *fair* means that the source material is likely to be in or below the soil. The bottom layer and the thickest layer of the soils are assigned numerical ratings. These ratings indicate the likelihood that the layer is a source of gravel or sand. The number 0.00 indicates that the layer is a poor source. The number 1.00 indicates that the layer is a good source. A number between 0.00 and 1.00 indicates the degree to which the layer is a likely source.

Source of Reclamation Material, Roadfill, and Topsoil

Table 12 gives information about the soils as potential sources of reclamation material, roadfill, and topsoil. Normal compaction, minor processing, and other standard construction practices are assumed.

The soils are rated *good, fair,* or *poor* as potential sources of reclamation material, roadfill, and topsoil. The features that limit the soils as sources of these materials are specified in the table. Numerical ratings between 0.00 and 0.99 are given after the specified features. These numbers indicate the degree to which the features limit the soils as sources of topsoil, reclamation material, or roadfill. The lower the number, the greater the limitation.

Reclamation material is used in areas that have been drastically disturbed by surface mining or similar activities. When these areas are reclaimed, layers of soil material or unconsolidated geological material, or both, are replaced in a vertical sequence. The reconstructed soil favors plant growth. The ratings in the table do not apply to quarries and other mined areas that require an offsite source of reconstruction material. The ratings are based on the soil properties that affect erosion and stability of the surface and the productive potential of the reconstructed soil. These properties include the content of sodium, salts, and calcium carbonate; reaction; available water capacity; erodibility; texture; content of rock fragments; and content of organic matter and other features that affect fertility.

Roadfill is soil material that is excavated in one place and used in road embankments in another place. In this table, the soils are rated as a source of roadfill for low embankments, generally less than 6 feet high and less exacting in design than higher embankments. The ratings are for the whole soil, from the surface to a depth of about 5 feet. It is assumed that soil layers will be mixed when the soil material is excavated and spread.

The ratings are based on the amount of suitable material and on soil properties that affect the ease of excavation and the performance of the material after it is in place. The thickness of the suitable material is a major consideration. The ease of excavation is affected by large stones, depth to a water table, and slope. How well the soil performs in place after it has been compacted and drained is determined by its strength (as inferred from the AASHTO classification of the soil) and linear extensibility (shrink-swell potential).

Topsoil is used to cover an area so that vegetation can be established and maintained. The upper 40 inches of a soil is evaluated for use as topsoil. Also evaluated is the reclamation potential of the borrow area. The ratings are based on the soil properties that affect plant growth; the ease of excavating, loading, and spreading the material; and reclamation of the borrow area. Toxic substances, soil reaction, and the properties that are inferred from soil texture, such as available water capacity and fertility, affect plant growth. The ease of excavating, loading, and spreading is affected by rock fragments, slope, depth to a water table, soil texture, and thickness of suitable

material. Reclamation of the borrow area is affected by slope, depth to a water table, rock fragments, depth to bedrock or a cemented pan, and toxic material.

The surface layer of most soils is generally preferred for topsoil because of its organic matter content. Organic matter greatly increases the absorption and retention of moisture and nutrients for plant growth.

Ponds and Embankments

Table 13 gives information on the soil properties and site features that affect water management. The degree and kind of soil limitations are given for pond reservoir areas; embankments, dikes, and levees; and aquifer-fed excavated ponds. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect these uses. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Pond reservoir areas hold water behind a dam or embankment. Soils best suited to this use have low seepage potential in the upper 60 inches. The seepage potential is determined by the saturated hydraulic conductivity (K_{sat}) of the soil and the depth to fractured bedrock or other permeable material. Excessive slope can affect the storage capacity of the reservoir area.

Embankments, dikes, and levees are raised structures of soil material, generally less than 20 feet high, constructed to impound water or to protect land against overflow. Embankments that have zoned construction (core and shell) are not considered. In this table, the soils are rated as a source of material for embankment fill. The ratings apply to the soil material below the surface layer to a depth of 5 or 6 feet. It is assumed that soil layers will be uniformly mixed and compacted during construction.

The ratings do not indicate the ability of the natural soil to support an embankment. Soil properties to a depth even greater than the height of the embankment can affect performance and safety of the embankment. Generally, deeper onsite investigation is needed to determine these properties.

Soil material in embankments must be resistant to seepage, piping, and erosion and have favorable compaction characteristics. Unfavorable features include less than 5 feet of suitable material and a high content of stones or boulders, organic matter, or salts or sodium. A high water table affects the amount of usable material. It also affects trafficability.

Aquifer-fed excavated ponds are pits or dugouts that extend to a ground-water aquifer or to a depth below a permanent water table. Excluded are ponds that are fed only by surface runoff and embankment ponds that impound water 3 feet or more above the original surface. Excavated ponds are affected by depth to a permanent water table, K_{sat} of the aquifer, and quality of the water as inferred from the salinity of the soil. Depth to bedrock and the content of large stones affect the ease of excavation.

Soil Properties

Data relating to soil properties are collected during the course of the soil survey.

Soil properties are ascertained by field examination of the soils and by laboratory index testing of some benchmark soils. Established standard procedures are followed. During the survey, many shallow borings are made and examined to identify and classify the soils and to delineate them on the soil maps. Samples are taken from some typical profiles and tested in the laboratory to determine particle-size distribution, plasticity, and compaction characteristics.

Estimates of soil properties are based on field examinations, on laboratory tests of samples from the survey area, and on laboratory tests of samples of similar soils in nearby areas. Tests verify field observations, verify properties that cannot be estimated accurately by field observation, and help to characterize key soils.

The estimates of soil properties are shown in tables. They include engineering properties, physical and chemical properties, and pertinent soil and water features.

Engineering Properties

Table 14 gives the engineering classifications and the range of engineering properties for the layers of each soil in the park.

Depth to the upper and lower boundaries of each layer is indicated.

Texture is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. “Loam,” for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, “gravelly.”

Classification of the soils is determined according to the Unified soil classification system (ASTM, 2005) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 2004).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, CL-ML.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional refinement,

the suitability of a soil as subgrade material can be indicated by a group index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

Rock fragments larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage.

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an ovendry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field.

Liquid limit and *plasticity index* (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination.

Physical Soil Properties

Table 15 shows estimates of some physical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the park. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each layer is indicated.

Particle size is the effective diameter of a soil particle as measured by sedimentation, sieving, or micrometric methods. Particle sizes are expressed as classes with specific effective diameter class limits. The broad classes are sand, silt, and clay, ranging from the larger to the smaller. If a range is not present, a singular representative value is shown.

Sand as a soil separate consists of mineral soil particles that are 0.05 millimeter to 2 millimeters in diameter. In this table, the estimated sand content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Silt as a soil separate consists of mineral soil particles that are 0.002 to 0.05 millimeter in diameter. In this table, the estimated silt content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Clay as a soil separate consists of mineral soil particles that are less than 0.002 millimeter in diameter. In this table, the estimated clay content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of sand, silt, and clay affects the physical behavior of a soil. Particle size is important for engineering and agronomic interpretations, for determination of soil hydrologic qualities, and for soil classification.

The amount and kind of clay affect the fertility and physical condition of the soil and the ability of the soil to adsorb cations and to retain moisture. They influence shrink-swell potential, saturated hydraulic conductivity (K_{sat}), plasticity, the ease of soil dispersion, and other soil properties. The amount and kind of clay in a soil also affect tillage and earthmoving operations.

Moist bulk density is the weight of soil (ovendry) per unit volume. Volume is measured when the soil is at field moisture capacity, that is, the moisture content at $^1/_3$- or $^1/_{10}$-bar (33kPa or 10kPa) moisture tension. Weight is determined after the soil is dried at 105 degrees C. In the table, the estimated moist bulk density of each soil horizon is expressed in grams per cubic centimeter of soil material that is less than 2 millimeters in diameter. Bulk density data are used to compute linear extensibility, shrink-swell potential, available water capacity, total pore space, and other soil

properties. The moist bulk density of a soil indicates the pore space available for water and roots. Depending on soil texture, a bulk density of more than 1.4 can restrict water storage and root penetration. Moist bulk density is influenced by texture, kind of clay, content of organic matter, and soil structure.

Permeability (K_{sat}) refers to the ability of a soil to transmit water or air. The estimates in the table indicate the rate of water movement, in micrometers per second, when the soil is saturated. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Permeability is considered in the design of soil drainage systems and septic tank absorption fields.

Available water capacity refers to the quantity of water that the soil is capable of storing for use by plants. The capacity for water storage is given in inches of water per inch of soil for each soil layer. The capacity varies, depending on soil properties that affect retention of water. The most important properties are the content of organic matter, soil texture, bulk density, and soil structure. Available water capacity is an important factor in the choice of plants or crops to be grown and in the design and management of irrigation systems. Available water capacity is not an estimate of the quantity of water actually available to plants at any given time.

Shrink-swell potential is the potential of the soil to expand and contract with a loss or gain in moisture. Linear extensibility is used to determine the shrink-swell potential of soils. Linear extensibility refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at $^1/_3$- or $^1/_{10}$-bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported in the table as percent change for the whole soil. The amount and type of clay minerals in the soil influence volume change.

The shrink-swell potential is *low* if the soil has a linear extensibility of less than 3 percent; *moderate* if 3 to 6 percent; *high* if 6 to 9 percent; and *very high* if more than 9 percent. If the linear extensibility is more than 3, shrinking and swelling can cause damage to buildings, roads, and other structures and to plant roots. Special design commonly is needed.

Organic matter is the plant and animal residue in the soil at various stages of decomposition. In this table, the estimated content of organic matter is expressed as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of organic matter in a soil can be maintained by returning crop residue to the soil. Organic matter has a positive effect on available water capacity, water infiltration, soil organism activity, and tilth. It is a source of nitrogen and other nutrients for crops and soil organisms.

Erosion Properties

Table 16 shows estimates of some erosion factors that affect a soil's potential for different uses. These estimates are given for each layer of every soil for K factors and are given as one rating for the entire soil for the T factor. Values are reported for each soil in the park. Estimates are based on field observations and on test data for these and similar soils.

Erosion factors are shown in the table as the K factor (Kw and Kf) and the T factor. Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and K_{sat}. Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

The procedure for determining the Kf factor is outlined in Agriculture Handbook 703, "Predicting Soil Erosion by Water: A Guide to Conservation Planning with the Revised Universal Soil Loss Equation (RUSLE)" (USDA–ARS, 1997).

Depth to the upper and lower boundaries of each layer is indicated.

Erosion factor Kw indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments. In horizons where total rock fragments are 15 percent or more, by volume, the Kw factor is always less than the Kf factor.

Erosion factor Kf indicates the erodibility of the fine-earth fraction, or the material less than 2 millimeters in size. Soil horizons that do not have rock fragments are assigned equal Kw and Kf factors.

Erosion factor T is an estimate of the maximum average annual rate of soil erosion by wind and/or water that can occur without affecting crop productivity over a sustained period. The rate is in tons per acre per year.

Wind erodibility groups are made up of soils that have similar properties affecting their susceptibility to wind erosion in cultivated areas. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible. The groups are described in the "National Soil Survey Handbook."

Wind erodibility index is a numerical value indicating the susceptibility of soil to wind erosion, or the tons per acre per year that can be expected to be lost to wind erosion. There is a close correlation between wind erosion and the texture of the surface layer, the size and durability of surface clods, rock fragments, organic matter, and a calcareous reaction. Soil moisture and frozen soil layers also influence wind erosion.

Total Soil Carbon

Table 17 gives estimates of total soil carbon. Soil carbon occurs as organic and inorganic carbon.

Soil organic carbon (SOC) is carbon in soil that originated from a biological source, such as plants, animals, or microorganisms. SOC is found in both organic and mineral soil layers. The term "soil organic carbon" refers only to the carbon occurring in soil organic matter (SOM). Soil organic carbon makes up about one-half the weight of soil organic matter. The rest of SOM is mostly oxygen, nitrogen, and hydrogen.

Soil inorganic carbon (SIC) is carbon found in soil carbonates, typically as calcium carbonate layers in the soil or as clay-sized fractions throughout the soil. Carbonates in soils are most common in areas where evaporation rates exceed precipitation, as is the case in most desert environments. Typically, the carbonates accumulated from carbonatic dust or from solution during periods of wetter climates. Soil inorganic carbon also occurs in soils that formed in marl in all regions of the country.

The SOC and SIC contents are reported in kilograms per square meter to a depth of 2 meters or to a representative depth of either hard bedrock or a cemented horizon. The SOC and SIC values are on a whole soil basis, corrected for rock fragments.

SOC can be an indicator of overall soil fertility and soil quality that affects ecosystem function. SOM is the main reservoir for most plant nutrients, such as phosphorus and nitrogen. Managing for SOC by managing for SOM increases the content of these elements and improves soil resiliency.

Soil organic matter binds soil particles together and thus increases soil porosity and water infiltration and allows better root penetration and waterflow into the soil. Greater inflow of water reduces the hazard of erosion and the rate of surface water runoff.

Greater SOC levels improve not only soil quality but also the quality of air and water. Soil acts as a filter and improves water quality. Fertile soils that support plant life remove CO_2 from the atmosphere and increase oxygen levels through photosynthesis. Maintaining the level of soil organic carbon reduces C release into the atmosphere and thus can lessen the effects of global warming.

SIC influences the types of plants that will grow. High SIC levels are commonly associated with a higher soil pH, which limits the types of plants that will thrive.

Like SOM, soil carbonates, the source of SIC, also bind soil particles together. They fill voids in the soil and thus can reduce soil porosity. Compacted soil carbonates may restrict root penetration and waterflow into the soil.

Chemical Soil Properties

Table 18 shows estimates of some chemical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the park. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each layer is indicated.

Cation-exchange capacity is the total amount of extractable cations that can be held by the soil, expressed in terms of milliequivalents per 100 grams of soil at neutrality (pH 7.0) or at some other stated pH value. Soils having a low cation-exchange capacity hold fewer cations and may require more frequent applications of fertilizer than soils having a high cation-exchange capacity. The ability to retain cations reduces the hazard of ground-water pollution.

Effective cation-exchange capacity refers to the sum of extractable cations plus aluminum expressed in terms of milliequivalents per 100 grams of soil. It is determined for soils that have pH of less than 5.5.

Soil reaction is a measure of acidity or alkalinity. The pH of each soil horizon is based on many field tests. For many soils, values have been verified by laboratory analyses. Soil reaction is important in selecting crops and other plants, in evaluating soil amendments for fertility and stabilization, and in determining the risk of corrosion.

Calcium carbonate equivalent is the percent of carbonates, by weight, in the fraction of the soil less than 2 millimeters in size. The availability of plant nutrients is influenced by the amount of carbonates in the soil.

Water Features

Table 19 gives estimates of various soil water features. The estimates are used in land use planning that involves engineering considerations.

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The four hydrologic soil groups are:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas.

The *months* in the table indicate the portion of the year in which a water table, ponding, and/or flooding is most likely to be a concern.

Water table refers to a saturated zone in the soil. The table indicates, by month, depth to the top (*upper limit*) and base (*lower limit*) of the saturated zone in most years. Estimates of the upper and lower limits are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors or mottles (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

Ponding is standing water in a closed depression. Unless a drainage system is installed, the water is removed only by percolation, transpiration, or evaporation. The table indicates *surface water depth* and the *duration* and *frequency* of ponding. Duration is expressed as *very brief* if less than 2 days, *brief* if 2 to 7 days, *long* if 7 to 30 days, and *very long* if more than 30 days. Frequency is expressed as none, rare, occasional, and frequent. *None* means that ponding is not probable; *rare* that it is unlikely but possible under unusual weather conditions (the chance of ponding is nearly 0 percent to 5 percent in any year); *occasional* that it occurs, on the average, once or less in 2 years (the chance of ponding is 5 to 50 percent in any year); and *frequent* that it occurs, on the average, more than once in 2 years (the chance of ponding is more than 50 percent in any year).

Flooding is the temporary inundation of an area caused by overflowing streams, by runoff from adjacent slopes, or by tides. Water standing for short periods after rainfall or snowmelt is not considered flooding, and water standing in swamps and marshes is considered ponding rather than flooding.

Duration and *frequency* are estimated. Duration is expressed as *extremely brief* if 0.1 hour to 4 hours, *very brief* if 4 hours to 2 days, *brief* if 2 to 7 days, *long* if 7 to 30 days, and *very long* if more than 30 days. Frequency is expressed as none, very rare, rare, occasional, frequent, and very frequent. *None* means that flooding is not probable; *very rare* that it is very unlikely but possible under extremely unusual weather conditions (the chance of flooding is less than 1 percent in any year); *rare* that it is unlikely but possible under unusual weather conditions (the chance of flooding is 1 to 5 percent in any year); *occasional* that it occurs infrequently under normal weather conditions (the chance of flooding is 5 to 50 percent in any year); *frequent* that it is likely to occur often under normal weather conditions (the chance of flooding is more than 50 percent in any year but is less than 50 percent in all months in any year); and *very frequent* that it is likely to occur very often under normal weather conditions (the chance of flooding is more than 50 percent in all months of any year).

The information is based on evidence in the soil profile, namely thin strata of gravel, sand, silt, or clay deposited by floodwater; irregular decrease in organic matter content with increasing depth; and little or no horizon development.

Also considered are local information about the extent and levels of flooding and the relation of each soil on the landscape to historic floods. Information on the extent of flooding based on soil data is less specific than that provided by detailed engineering surveys that delineate flood-prone areas at specific flood frequency levels.

Soil Features

Table 20 gives estimates of various soil features. The estimates are used in land use planning that involves engineering considerations.

A *restrictive layer* is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Kinds of restrictions include bedrock, cemented layers, dense layers, and frozen layers. The table indicates the hardness and thickness of the restrictive layer, both of which significantly affect the ease of excavation. *Depth to top* is the vertical distance from the soil surface to the upper boundary of the restrictive layer.

Potential for frost action is the likelihood of upward or lateral expansion of the soil caused by the formation of segregated ice lenses (frost heave) and the subsequent collapse of the soil and loss of strength on thawing. Frost action occurs when moisture moves into the freezing zone of the soil. Temperature, texture, density, saturated hydraulic conductivity (K_{sat}), content of organic matter, and depth to the water table are the most important factors considered in evaluating the potential for frost action. It is assumed that the soil is not insulated by vegetation or snow and is not artificially drained. Silty and highly structured, clayey soils that have a high water table in winter are the most susceptible to frost action. Well drained, very gravelly, or very sandy soils are the least susceptible. Frost heave and low soil strength during thawing cause damage to pavements and other rigid structures.

Risk of corrosion pertains to potential soil-induced electrochemical or chemical action that corrodes or weakens uncoated steel or concrete. The rate of corrosion of uncoated steel is related to such factors as soil moisture, particle-size distribution, acidity, and electrical conductivity of the soil. The rate of corrosion of concrete is based mainly on the sulfate and sodium content, texture, moisture content, and acidity of the soil. Special site examination and design may be needed if the combination of factors results in a severe hazard of corrosion. The steel or concrete in installations that intersect soil boundaries or soil layers is more susceptible to corrosion than the steel or concrete in installations that are entirely within one kind of soil or within one soil layer.

For uncoated steel, the risk of corrosion, expressed as *low, moderate,* or *high,* is based on soil drainage class, total acidity, electrical resistivity near field capacity, and electrical conductivity of the saturation extract.

For concrete, the risk of corrosion also is expressed as *low, moderate,* or *high.* It is based on soil texture, acidity, and amount of sulfates in the saturation extract.

Formation and Classification of the Soils

By Susan Burlew Southard, Natural Resources Conservation Service.

This section relates the setting and soils of Upper Delaware National Scenic and Recreational River to the factors of soil formation and describes the system of soil classification.

Setting

The geographic setting, geologic materials, and earth-shaping processes in the park have contributed to the many types of soils in the park. Understanding the soils of the park enhances understanding of the unique relationship between soils and the environment. Soil forming processes are influenced by rock type, topographic expression, surface properties, and hydrologic properties. Because soil formation influences soil properties and behaviors, an understanding of the processes of soil formation may help in the determination of best management practices.

The park is in New York and Pennsylvania along the Delaware River, extending for 73 miles upstream from Matamoras, Pennsylvania, and Point Jervis, New York (fig. 2). The Upper Delaware River is in the Catskill and Southern New York sections of the Appalachian Plateaus physiographic province. The rolling hills of the area vary in elevation from 800 to 2,000 feet and are characterized as a series of indistinct and irregular escarpments. Relief is generally between 300 and 500 feet, although it ranges to 700 feet in a few locations (USDI–NPS, 2012). The gorge of the Upper Delaware River begins above Matamoras and runs north throughout most of the river segments, ranging between 2,000 and 3,000 feet in width.

The parent materials of most of the soils in the river corridor accumulated largely through glacial action and were deposited as till or outwash from receding glaciers. Red and gray sandstone, siltstone, and shale are primary contributors to the soils. The entire park has been affected by glaciation.

Factors of Soil Formation

Soil covers the surface of the earth as a three-dimensional body of varying thickness and is made up of different proportions of organic and mineral material and pore space filled with gases and water. Soils differ in appearance, productivity, and management requirements due to their chemical and physical properties. The characteristics and properties of soils are determined by physical and chemical processes that result from the interaction of five soil-forming factors. These factors of soil formation are interdependent, and few generalizations can be made regarding any one factor unless the effects of the other factors are known. The term “pedogenesis” is often used to refer to the processes of soil formation.

The interacting soil-forming factors are parent material, climate, organisms, time, and relief and topography (Jenny, 1941). Parent material is the source material in which soils formed. Soils are influenced by the texture and structure of the parent material and its mineralogical and chemical composition. The predominant aspects of climate that affect soil formation are temperature and kind and amount of precipitation.

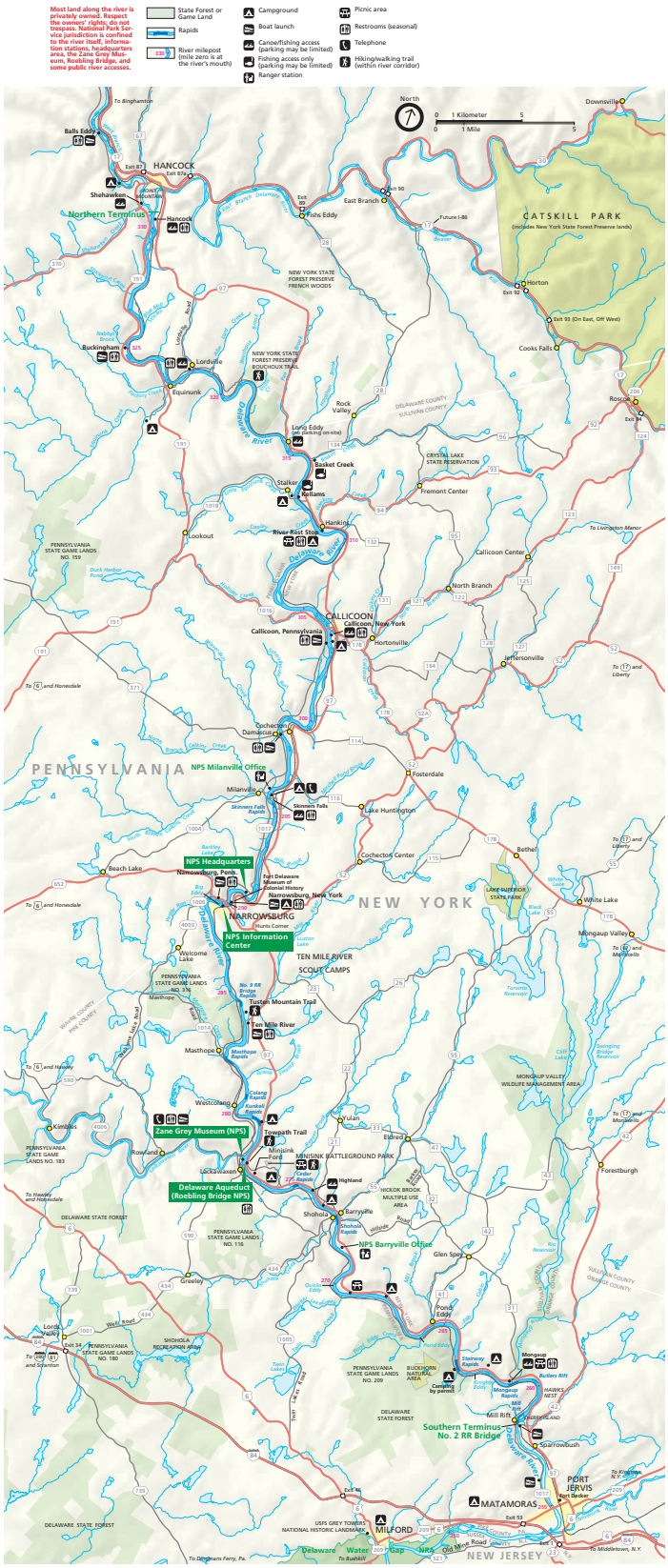


Figure 2.—Map of Upper Delaware National Scenic and Recreational River, Pennsylvania and New York.

The seasonal variations in temperature and distribution of precipitation also have an influence. Organisms include the plants, animals, microorganisms, and other organisms living in and on the soil, including humans. Time refers to how long the soil-forming factors have been operating on a particular landscape. Relief and topography refer to the elevation and shape of the landscape. They affect internal and external soil properties, such as drainage, aeration, susceptibility to erosion, and exposure to the sun and wind.

The processes of soil formation are sequences of events, involving biogeochemical reactions that are energized by climate and spatially related to relief and topography (Buol and others, 2011). The physical and chemical properties of a soil are altered by these reactions over time.

The influence of each of the soil-forming factors varies. Soils may differ significantly from place to place in a park and within very short distances as a result of complex interaction among the five factors. In some instances, however, parks may have vast stretches of the same type of soil because of uniform soil-forming factors.

Figure 3 illustrates soils of different parent materials on a typical park landscape. Table 5 lists the typical parent material and landforms of the major soils of each map unit.

Parent Material

The unconsolidated mass in which soils form is called “parent material.” Mineral soils are a product of the weathering of underlying bedrock or the weathering of material that has been transported. Organic soils form in place from the accumulation and decomposition of plant material, such as wood, leaves, and aquatic plants. Weathering refers to the chemical and physical disintegration and decomposition of

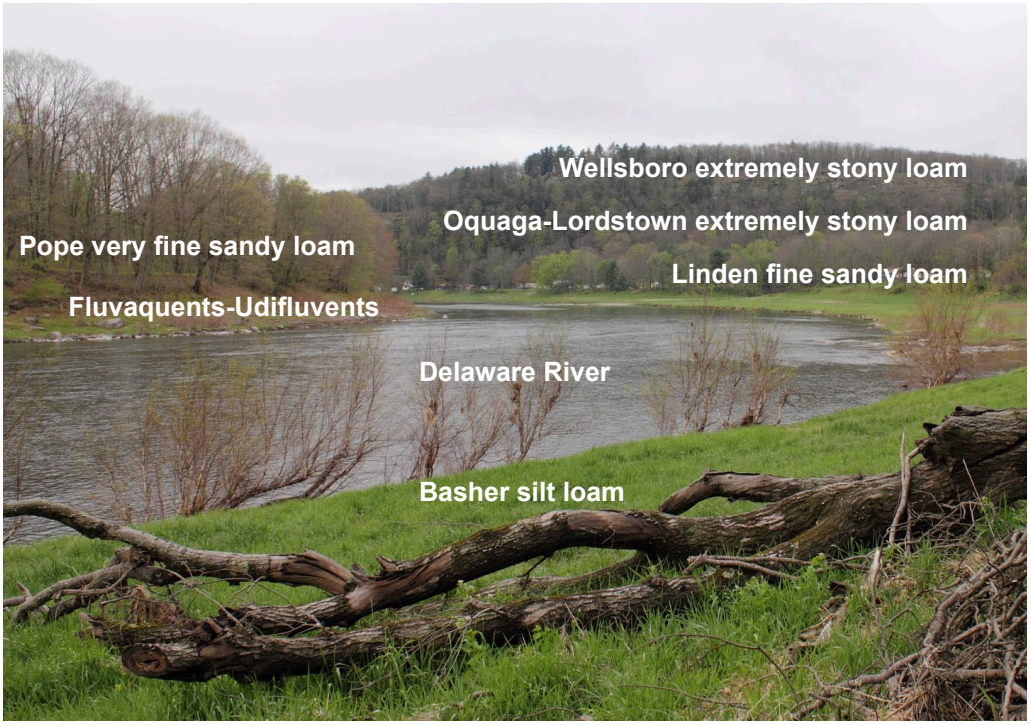


Figure 3.—Relationship of soils to landscape position near the park headquarters. The view is downriver from the park headquarters looking towards Narrowsburg, New York.

parent material. Few soils weather entirely from the underlying rocks. More commonly, soils form in materials that have been transported from elsewhere. Soils generally have a dominant kind of parent material but are influenced by other types of parent material. Material that has been moved by gravity is called colluvial material or colluvium. Material that has been moved by running water is called alluvial material or alluvium. Lacustrine deposits are a type of parent material deposited in lakes and ponds. Soils are said to have residual parent material if they formed directly from underlying rocks or from an in situ plant source. Soils that formed in residuum may have the same general chemistry as the original rocks, depending on the degree of weathering that has occurred. Material that has been moved primarily by wind is called eolian material. Windblown sand is an example. Windblown loess, which has been blown for long distances, consists mainly of very fine sand and silt-sized particles. Till and outwash are parent materials that were moved by glaciers and glacial waters.

Till

Till is soil parent material transported and deposited by glaciers. It consists dominantly of unsorted and unstratified material deposited directly by a glacier without subsequent reworking by meltwater. It is a heterogeneous mixture of clay, silt, sand, gravel, stones, and boulders. Till has rock fragments of various lithologies within a finer matrix, which can range from clay to sandy loam (USDA–NRCS, 2008). The rock fragments generally are angular but can also be subrounded or rounded (fig. 4). The composition of the till depends on the geologic materials of the area over which the ice passed before the till was deposited. The till in turn affects soil properties, including kind and amount of rock fragments, color, texture, mineralogy, and pH.

Many types of till have served as parent materials for the soils in the park. The different till parent materials and landforms are listed in table 5. For many soils, the table lists the texture of the till and the color and type of the parent rock.



Figure 4.—View of the landscape along Masthope Plank Road in an area of Wurtsboro stony fine sandy loam, 8 to 15 percent slopes, extremely stony. Wurtsboro soils are on glaciated uplands and formed in till derived from sandstone. Note the angular stones on the surface of the soil on the right side of the image.

Basal till is unconsolidated material of mixed composition deposited at the base (bottom) of a glacier. The Lackawanna, Swartswood, Volusia, and Wellsboro soils in the park formed from thick deposits of basal till. On the higher parts of the landscape, the glacial till is commonly shallower over bedrock than on the lower parts of the landscape (fig. 5). The till the Arnot, Lordstown, and Oquaga soils formed in was thinner than the till the Wellsboro soil formed in. The profiles of these soils have a high content of local bedrock.



Figure 5.—A rounded landscape of Lackawanna and Wellsboro soils in the nearby Delaware Water Gap National Recreation Area (USDA–NRCS and USDI–NPS, 2013b). Both soils are nearly level to steep. Slopes range from 0 to 55 percent. The soils formed on glaciated uplands in red till derived from reddish sandstone, siltstone, and shale. Both soils have a fragipan.

Different tills are on different landforms. In the park region, basal tills are typically in the uplands—on the tops and sides of hills and ridges. Ablation tills are typically on the lower valley walls on lateral and end moraines. Ablation till is a general term for loose, relatively permeable, earthy material deposited during the downwasting of nearly static glacial ice, either contained within or accumulated on the surface of the glacier. Maplecrest and Valois soils formed in ablation till on lateral and end moraines. Cadosia soils formed in till and local colluvium on head slopes of hollows and on steep valley walls.

Arnot, Bath, Cheshire, Edgemere, Lackawanna, Lordstown, Morris, Neversink, Oquaga, Shohola, Volusia, and Wellsboro soils in the park are derived from till. The till is derived mainly from acid sandstone, siltstone, and shale. Till hillslopes typically have a distinctive margin with terrace soils (fig. 6).

Outwash

In the northeastern United States, soil scientists distinguish between late Pleistocene glaciofluvial and glaciolacustrine deposits as “outwash” and “lacustrine” and Holocene flood plain deposits as “alluvium.” For example, the parent material is



Figure 6.—An area of Basher silt loam in the foreground and Oquaga and Lordstown extremely stony loams, 25 to 70 percent slopes, on the hillslope. The park headquarters is in the area of Basher silt loam. Basher soils are very deep, are moderately well drained, and formed in recent alluvial deposits derived from acid, reddish siltstone, sandstone, and shale. They are nearly level, are on flood plains, and are subject to occasional flooding. Oquaga and Lordstown soils formed in thin till deposits on bedrock-controlled landforms of glaciated dissected plateaus.

described as “outwash” for Chenango and Wyoming soils, as “lacustrine” for Raynham and Unadilla soils, and as “recent alluvium” for Barbour, Basher, Craigsville, and Delaware soils. Outwash (glaciofluvial) deposits are stratified and sorted sediments (chiefly sand and gravel) removed or “washed out” from a glacier by meltwater streams and deposited in front of or beyond the end moraine or the margin of a glacier. The coarser material is deposited nearer to the ice and consists of rock or parent material transported and deposited by meltwater running off a receding glacier.

Certain landforms are associated with outwash, and certain soils are associated with these landforms. An outwash plain is an extensive lowland landscape consisting of coarse textured, glaciofluvial material. A valley train is a type of outwash deposit where the glacial meltwater was confined within a long, narrow valley. Chenango, Pompton, Red Hook, and Tunkhannock soils formed in glaciofluvial deposits.

Some soils formed in proglacial lakes, which would have existed just beyond the margin of an advancing or retreating glacier, and is situated generally in direct contact with the ice (USDA–NRCS, 2008). Such lakes were formed either by the damming action of a moraine during the retreat of a melting glacier or by meltwater trapped against an ice sheet due to isostatic depression of the crust around the ice. At the end of the last ice age, approximately 10,000 years ago, large proglacial lakes were widespread in the northern hemisphere (Wikimedia, 2012). Raynham, Scio, and Unadilla soils probably formed in these lake plains. Some soils in the park most likely formed on glaciofluvial terraces. These include Hoosic, Otisville, and Riverhead soils.

Similarly to till, outwash can have a variety of particle sizes. Unlike in most tills, however, the particles in outwash are sorted. The particle-size distribution of outwash depends on the velocity of the meltwater. In general, the higher the velocity of water,

the larger the particles that the water can transport. Floods caused by outbursts from proglacial lakes were high velocity and high energy and would therefore have been able to carry large rock fragments. Rock fragments found in outwash are more commonly subrounded to rounded because they were tumbled and polished during transport. Soils that formed from outwash and till commonly have a high content of rocks in this area of the country.

The Corwin Farm at Barryville Ranger Station provides a good setting to illustrate the variability of textures and hydrologic properties of outwash soils and Holocene alluvial soils. This setting illustrates the variability of soils in a small area of mixed parent material. The orchards at the farm are mostly in an area of Riverhead soil (fig. 7). This well drained soil formed in loamy glaciofluvial deposits overlying stratified and sorted sand and gravel. The map unit is prime farmland. To the south of the farm, a small area that has sorted gravel extending to a significant depth was used as a gravel pit. In the lower river-terrace position to the west of the farm and adjacent to the river, the soils are Fluvaquents (poorly drained) and Udifluvents (moderately well drained), both of which are frequently flooded and derived from Holocene alluvium. The Fluvaquents are wetter than the Udifluvents and are often ponded. Directly northeast of the farm are Otisville soils on sloping terraces. These excessively drained soils formed in outwash. They are very gravelly sand and sandy loam. Directly southeast of the farm, between Highway 97 and areas cleared for orchards, is a wet area of Wayland soil. Wayland soils are very poorly drained and silty. The content of organic carbon in the Wayland soils is high for a mineral soil in the park. They also have a measureable content of soil inorganic carbon in the form of calcium carbonate (table 17). Wayland soils are in nearly level or depressed areas of Holocene flood plains along streams that receive runoff from glaciated uplands. Wayland soils are mainly in or along areas of Wisconsin glaciation.



Figure 7.—An area of the Corwin Farm at the Barryville Ranger Station. The majority of the farm is on Riverhead soils. Riverhead soils are very deep, are well drained, and formed in glacial outwash deposits. The Riverhead soils are typically on outwash plains, valley trains, beaches, and water-sorted moraines.

The glaciofluvial deposits in the park were influenced by the source of the geologic materials. Consequently, the geologic origin of the rock fragments in the outwash deposits can be more variable than the geologic origin of the rock fragments in till deposits. Overall, it is difficult to associate soils to moraines and outwash features consistently because the numerous movements of the ice left a series of moraines and glaciofluvial landforms that were commonly partially or completely destroyed.

Alluvium

Alluvium is material deposited by running water. Alluvium can have different textures, depending on the speed of the water. Slow-moving water deposits fine textured material (clay and silt) as the sediments in the water settle out. Fast-moving water deposits gravel, rocks, and sand. The type of rocks in the source region of the streams and rivers determines some characteristics of the alluvium.

Postglacial alluvial deposits were laid down during the Pleistocene and Holocene Epochs of the Quaternary period as the glaciers retreated. The glacial and postglacial environments affected the morphology of the Upper Delaware River Valley. Increased precipitation enhanced downcutting and erosion. Eroded materials were deposited by the river elsewhere. These alluvial deposits further weathered in place on river terraces to form some of the soils currently in the park.

At the beginning of glacial recession, the Delaware River was a braided stream fed by meltwater from the receding glaciers. The river became more linear after the glaciers fully retreated from the Upper Delaware Valley. During the river's development, alluvium was deposited as stream terraces of successive flood plains. Each flood plain was abandoned by the continual incising of the river into lower deposits and the dropping of the water level of the river (Witte, 1997). Delaware and Chenango soils formed from these postglacial alluvial deposits on the glacial outwash terraces. Because of favorable characteristics, these soils have historically have been used for agriculture where they were on high enough terraces to avoid frequent flooding. Most of the map units containing soils on high river terraces are prime farmland. Table 3 lists the map units with favorable farmland classifications.

The area around the Zane Grey Museum is mostly Delaware soils, and the historic settlement of Lackawaxen near the Roebling Bridge is an area of Chenango soils. Chenango soils are on a slightly higher terrace level and are gravelly as compared to the rock-free Delaware soils. Figure 8 shows the Zane Grey house on a terrace along the Delaware River. The towpath along the Hudson and Delaware Canal commonly cut through prime farmland because it was elevated above the frequent flooding (fig. 9).

Udifluvents, Fluvents, Fluvaquents, Barbour, Gleneyre, Holly, Philo, Pope, Suncook, and Wyalusing soils formed in postglacial alluvium in the lower positions on flood plains and all have variable risks for flooding. Wyalusing soils, Fluvaquents, and Udifluvents are on the islands in the river. Table 19 lists the frequency of flooding and ponding on the dominant soils in each map unit.

Craigsville and Wyoming soils are typically together in nearly level or gently sloping positions along stream tributaries to the Delaware River. Craigsville soils formed in alluvium that washed from sandy and gravelly upland soils. Wyoming soils formed in a combination of alluvium and colluvium and are nearly level to very steep. Wyoming soils are on outwash terraces, moraines, kames, eskers, and valley trains. They formed in gravelly, water-sorted material derived from red and gray sandstone, siltstone, and shale. In the park, Craigsville and Wyoming soils are along Masthope Creek, Westcolang Creek, Panther Creek, Twin Lake Creek, and Pond Eddy Creek. Figure 10 shows a profile of a Craigsville soil.

Organic Residuum

Organic deposits in the park consist of accumulations of decomposed plant material in postglacial lakes and ponds. Over time, these water bodies filled with organic



Figure 8.—The Zane Grey Museum in an area of Delaware fine sandy loam, 3 to 8 percent slopes. In some areas, this map unit has been leveled. The Delaware soil formed in recent alluvium on river terraces comprised of post-glacial deposits derived from sandstone, shale, and siltstone. In most areas, the soil has a mixed, plowed A horizon. The soil is very deep and well drained.

material derived from algae, sedges, rushes, and other water-tolerant plants. The plant residue accumulated because permanently wet conditions of the soils prevented oxidation and slowed decomposition of the plant materials.

The influence of organic residual as a parent material is commonly a major factor in the development of highly carbon-sequestrating ecological niches in a park. Soils that formed in these swamps or bogs are the dark brown and black of the decomposed



Figure 9.—Towpath Road along the Hudson and Delaware Canal. The road is predominantly in areas of Pope very fine sandy loam, rarely flooded. This map unit is rated as prime farmland.

hydrophilic plant material from which they formed. Medifibrists, Medihemists, Carlisle, Freetown, Palms, and Paupack soils are derived from residual organic deposits.

The content of organic carbon and inorganic carbon for each soil in the park is shown in table 17. Soil organic carbon (SOC) originates from a biological source, such as plants, animals, and microorganisms. It makes up about one-half of the weight of organic matter in a soil. The term “soil organic carbon” refers only to the carbon in



Figure 10.—A profile of a Craigsville soil along the New River Gorge National River in West Virginia (USDA–NRCS and USDI–NPS, 2013c). Craigsville soils are also found along Upper Delaware National Scenic and Recreational River. They are very deep, formed in alluvium, and have characteristic rounded cobbles and pebbles indicating water-worked material. The scale is in centimeters.

organic matter. Soil inorganic carbon (SIC) is the carbon in soil carbonates, typically as calcium carbonate in layers or as clay-sized fractions throughout the soil.

Carbonates in soils are most common in areas where evaporation rates exceed precipitation rates, as in most desert environments. Generally, the carbonates in desert environments accumulated from carbonatic dust or from carbonate-containing parent material. In the park, the carbonates are from limestone weathering to calcareous tills,

alluvium, and outwash. Fluvaquents are the only soils in the park that have a higher concentration of soil inorganic carbon than soil organic carbon.

The Freetown soil has the highest content of soil organic carbon of any soil in the park. Based on current data, a Freetown soil has 170 kilograms of soil organic carbon per square meter (to a depth of 2 meters). That equates to about 750 tons of stored carbon per acre of land where the map unit is 100 percent Freetown soil. The Freetown soil is very poorly drained. It is mapped as a soil of minor extent in the park on the Pennsylvania side of the river, south of State Route 1006.

Processes by which carbon is withdrawn from the atmosphere and secluded in soil are called "carbon sequestration." Carbon dioxide (CO_2) and methane (CH_4) are greenhouse gases. Soil carbon sequestration transfers carbon dioxide from the atmosphere to the soil.

Humification is one process by which soil organic carbon becomes sequestered. Humification occurs when organic matter, such as leaves, wood, roots, and animals, is decomposed and converted to humic substances. Humic substances are broadly defined as products of organic matter decomposition that are relatively resistant to further microbial decomposition. Humic substances containing a high content of carbon can persist in the soil for thousands of years. Examples of humic substances are humic and fulvic acids and humins. Humification is common in depressions in the park.

Soil organic carbon can also be buried in various ways. Burial of carbon-containing soil layers limits the exposure of the carbon to the atmosphere and microbial degradation, thereby preserving organic carbon in the soil. Floods along the Delaware River episodically bury, cover, and preserve old soil surface horizons with new sediment. Landslides along the hillslopes can also bury soil organic carbon.

Erosion is a natural process in soils. Removal of soil from one place often results in burial of soil in another place. Burial of soil horizons that contain soil organic matter sequesters that carbon in the soil.

Climate

Past and present climate variations have significantly affected soil-forming processes in the park. Climatic factors, such as precipitation and temperature, have influenced the existing plant and animal communities and the physical and chemical weathering of the parent material. Temperature and moisture influence soil formation and are the two most commonly measured features of climate. Weathering is most active when soils are moist and warm because these conditions are conducive to rapid chemical reactions and increased biological activity in the soil. Cooler temperatures result in slower chemical reactions. Although average temperatures and precipitation are important in determining soil properties, the extremes of climate also have a major role in soil formation at any specific locale.

Glaciers advanced over the park during the last ice age and obliterated the existing vegetation and soils. The cold temperatures most likely prohibited or significantly reduced the rate of chemical reactions in the rock and soil material. As the temperature slowly increased and glaciers started to recede, the deposition of till and glaciofluvial material began. After the ice retreated and the climate gradually warmed, deciduous forests eventually succeeded the preexisting vegetation. The warmer, humid climate increased the physical and chemical weathering of the parent material and the accumulation of organic matter. The formation and translocation of clay and the leaching of soluble compounds accelerated during this time.

During periods of rainfall or snowmelt, water carries dissolved or suspended solids through the soil in a process called "leaching." The leaching process becomes active with the onset of rainfall or snowmelt. Variations in temperature and moisture cause variations in weathering and leaching in the soil. Seasonal and daily changes

in temperature affect moisture effectiveness, biological activity, rates of chemical reactions, and kinds of vegetation.

The areas adjacent to glaciers, or periglacial areas, had intensified hillslope weathering during the ice ages (Means, 1995). The past periglacial environments in the park included discontinuous permafrost, tundra-like vegetation, and many freeze-thaw cycles due to proximity to the glacial environment. Freeze-and-thaw cycles led to ice-wedging of boulders and small rocks. During the day, ice would melt and the water would seep into soil and cracks. At night, the water would refreeze, expand, and force the rocks apart. Movement of the rocks and soil created talus piles lower on the slopes. Large, water-saturated masses of rock and soil would slowly slide downward in lobes over frozen or partially frozen ground in a process known as solifluction.

Present-Day Climate

Currently, the soils in the park are usually moist (they have a udic soil moisture regime) and have a mesic soil temperature regime. Some soils in low-lying positions have an aquic (usually wet) soil moisture regime. Examples are Edgemere and Holly soils. The Edgemere soils are in depressions on till plains and have reduced iron due to the saturated environment. The Holly soils are in depressions on flood plains in backswamp positions (figs. 11 and 12). Reduced iron appears as grey material in the soil (fig. 13). Both soils are hydric (table 4). Tables 19 and 20 list distinguishing features of the soils.

The average annual precipitation in most of the park ranges from 38 to 50 inches (965 to 1,270 millimeters). It ranges from 38 to 46 inches (965 to 1,170 millimeters) around the lower margins of the plateaus. The precipitation is evenly distributed throughout the year. Rainfall occurs as high-intensity, convective thunderstorms during the summer. The average annual temperature is 40 to 46 degrees F (4 to 8 degrees C). The freeze-free period averages 135 days.



Figure 11.—An area of Holly soil in a backswamp along the Delaware River in the nearby Delaware Water Gap National Recreation Area (USDA–NRCS and USDI–NPS, 2013). Holly soils are hydric.

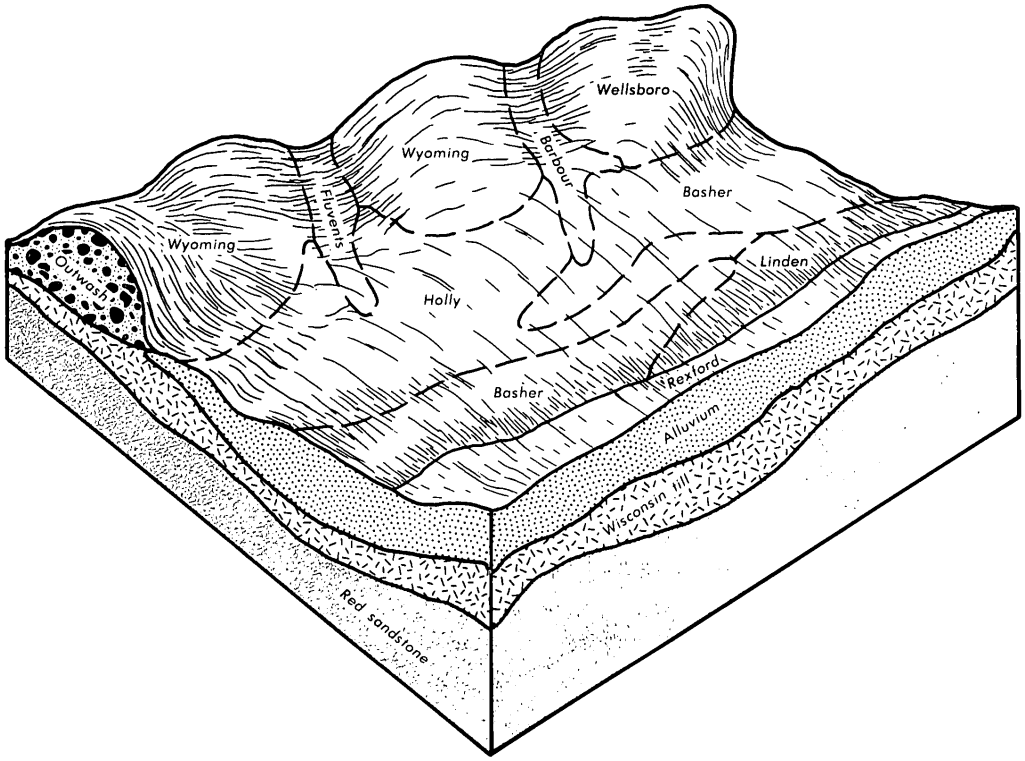


Figure 12.—Relationship of soils to landscape position in the part of the park in Wayne County, Pennsylvania. The Holly soils formed in alluvium. This image was originally published in the Soil Survey of Wayne County, Pennsylvania. (USDA–SCS, 1985)



Figure 13.—A profile of a Holly soil along the Bluestone National Scenic River in West Virginia (USDA–NRCS and USDI–NPS, 2013a). Holly soils are also mapped along the Delaware River. These soils are on flood plains and are very deep and very poorly drained. The depth to the water table fluctuates with seasonal flooding in the river. Depths on the tape are in centimeters.

Climate and Frost Heave

Many of the soils in the park have moderate or high susceptibility to frost heave. Frost heave is a natural pedogenic process that breaks up and mixes the surface of the soil. Table 20 categorizes the potential for frost heave as low, moderate, or high “Potential for frost action.” Fluvaquents, Chippewa, Morris, Red Hook, Unadilla, Volusia, and Wellsboro soils are rated as having a high potential for frost action. Many soils in the park have a fragipan that supplies the source of water for frost heave above the pan.

Frost heave results from ice forming beneath the surface of soil during atmospheric freezing conditions. The ice grows in the direction of heat loss, which is vertically toward the surface, starting at the freezing boundary in the soil. Frost heave requires a water supply to keep feeding the growth of ice crystals. The growing ice is restrained by overlying soil, which applies a load that limits vertical growth and promotes the formation of lens-shaped areas of ice within the soil. Figure 14 illustrates the formation of ice lenses (Williamborg, 2009). The process of frost heave was more intense during glacial times than it is today.

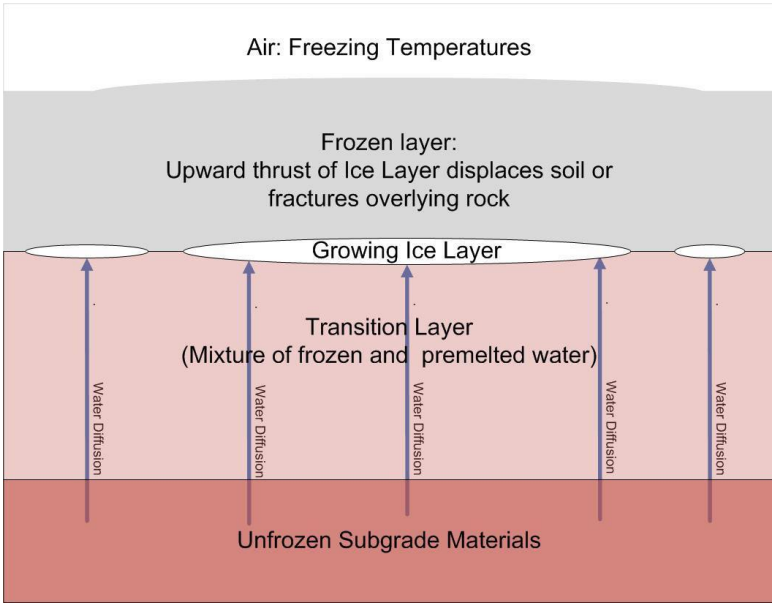


Figure 14.—Diagram illustrating formation of ice lenses that result in frost heave or frost action (Williamborg, 2009).

Frost heave can result in potholes, cracked pavements, and cracked foundations. Table 9 indicates which map units and soils are limited as a site for roads and streets due to frost action. The limitation results in higher maintenance costs for roads and parking lots.

Present-day climate variations are the result of topography and relief. In most areas of the United States, temperature generally decreases with elevation and precipitation generally increases with elevation. As elevation increases, the amount of precipitation, the extent of leaching, and the amount of vegetation generally increase up to a point where decreasing temperatures reverse the trend. The colder temperatures result in less leaching because of decreased microbial growth, decreased vegetation, and possibly frozen soil. Fluctuations in temperature and moisture affect the rate at which organic matter is produced, decomposed, and accumulated and the rate at which minerals are weathered.

Some areas of the country have climates that make the areas susceptible to wildfires. Wildfires are less common in this park than in parks in the western United States but can occur during periods of drought. Wildfires can alter physical and chemical properties of the soil. Erosion can be accelerated by the loss of vegetation and ground cover. Slopes can be destabilized by increased runoff after fires.

Organisms

Plants, animals, microorganisms, and humans affect the formation and shape of soils. Plants capture solar energy via photosynthesis and transfer that energy to the soil, energy that is a fundamental driver of many soil processes. Fungi and bacteria are the primary organisms that decompose organic matter and add nutrients to the soil. Animals and microorganisms mix soils and form burrows and pores. Abandoned animal burrows commonly are filled with loose material from the overlying horizons and transmit water more readily than the surrounding undisturbed soil material. Microorganisms affect chemical exchanges between roots and soil. Bacteria, fungi, and many other microorganisms decompose organic matter and release nutrients to growing plants. They influence the formation of soil structure. Soil properties, such as drainage, temperature, and reaction, influence the type of microorganisms that live in the soil.

Plant roots open channels in the soils. Different types of roots have different effects on soils. Grass roots are fibrous and decompose easily, adding organic matter to the soil. Fine grass roots can extend below the surface for many feet. Plant roots also help to develop soil structure and aggregate stability. Vegetation increases soil stability by protecting the surface against wind erosion and water erosion. Taproots open pathways through dense layers.

The vegetation under which a soil forms influences soil properties, such as color, structure, reaction, and content and distribution of organic matter. Vegetation extracts water from the soil, recycles nutrients, and adds organic matter to the soil. Gases derived from root respiration combine with water to form acids that influence the weathering of minerals. Soils that formed under forest vegetation generally have a lower content of organic matter than soils that formed under grasses. The forest soils are therefore generally lighter colored. The variety of soil types, the differences in exposure to the sun, and the variations in temperature and moisture create hundreds of microhabitats that allow the park to support diverse communities of plants.

The large plants in the forested ecosystem in the park affect soil formation. Tree roots help break up rocks, resulting in channels that increase water penetration. The shallow Arnot and Halcott soils are associated with rock outcrop that is slowing being fractured by tree roots. Trees that are blown down help mix the soil when their roots are exposed. Trees capture energy and substance through photosynthesis, by the decomposition of plant residue, and by forming organic-mineral complexes that are recycled many times within the ecosystem (Buol and others, 2011).

The native vegetation depends on climate, topography, and biological factors plus soil factors, such as soil density, depth, chemistry, temperature, and moisture. The dominant coniferous tree in the park is eastern hemlock, which is the Pennsylvania State tree. Eastern hemlock is an important component of the forest canopy. The species thrives in damp, cool soils in shady microclimates and has shallow roots that are vulnerable to ground fires, erosion, drought, heavy snows, high winds, and human encroachment. Common deciduous trees in the park include white oak, red maple, and shagbark hickory. Forest communities of river birch are on wet soils along creeks, lakes, and the Delaware River. These trees help to minimize erosion along the banks of waterways. A common shrub in the recreation area is mountain laurel, which is the Pennsylvania State flower and blooms in June. Mountain laurel thrives in the acidic soil of hemlock ravines.

Leaves from plants fall to the surface and decompose on the soil. Organisms decompose these leaves and mix them with the upper part of the soil, resulting in cycling of nutrients and energy back to vegetation. The leaf litter, both leaves and needles, helps prevent nutrient loss, conserves soil moisture, reduces raindrop impact, and limits frost penetration.

Human activities have significantly influenced soil formation in the park. Native forests have been cleared and developed for farming and other uses. Cultivation has accelerated erosion on sloping soils; wet soils have been drained; and manure, lime, chemical fertilizer, and pesticides have been applied in cultivated areas, thereby changing the native soil chemistry and biodiversity. Cultivation has changed soil structure, increased compaction, and lowered the content of organic matter. The development of land for urban uses has significantly altered the soils in some areas.

Time

Time is an important factor affecting soil formation. Over time, soils exhibit features that reflect the interaction of other soil-forming factors. Recently deposited material, such as material deposited by a flood, does not exhibit features from soil development activities. If the previous soil surface and underlying horizons become buried, the clock resets for soil formation. The different horizons in a soil profile and the degree of development can be directly related to time. Terraces above an active flood plain, while similar in origin to the flood plain, are older land surfaces. The soils on the terraces therefore exhibit more horizon development than the soils on the flood plains. The least developed soils in the park formed in postglacial alluvium, which comprises the youngest geomorphic surfaces of river terraces and flood plains and includes the alluvium along the Delaware River. Fluvaquents, Udifluvents, Delaware, Holly, Unadilla, and Wyalusing soils are on this landscape. These soils tend to have weakly expressed horizons because the soil-forming processes are interrupted with each new deposition of fresh alluvium.

Glaciers advanced over the park and reached a maximum extent roughly 22,000 years ago. They then receded. The glacial deposits are geologically young, but enough time has elapsed for the initial parent material to weather into soils that have some horizon development.

A model describing how time has acted as a soil forming factor and the resultant degree of horizonation in the soils in the park can be developed by looking at specific soils. The youngest soils in the park in terms of “soil age” are Fluvaquents, Fluvents, Udifluvents, Gleneyre, Holly, Wayland, and Wyalusing soils. These soils have minimal horizonation and different parent materials. All of these soils are on the flood plains at the lowest elevations and are subject to flooding. Other soils that are young in terms of development of profile characteristics are Udorthents, Otisville, and Suncook soils.

Next in terms of soil age are the soils in the higher positions on flood plains. They are more stable because they are rarely flooded, so they have had more stable soil-forming time to develop horizonation as compared to the Fluvents. These soils have a simple ABC profile. Craigsville, Delaware, Philo, and Pope soils are examples. Figure 15 shows a profile of a Delaware soil. The B horizon is a subsoil zone of accumulation of materials moved from O, A, or E horizons or of soil material formed in place. Most of these soils have been farmed and therefore do not have an O horizon. Color has an important part in the distinguishing the B horizon, which is the horizon of maximum accumulation of dissolved or suspended materials, for example, iron, clay, or calcium carbonate. Not all soils have a B horizon. The B horizon in the soils in the higher positions on flood plains show some color change and weak structure. They are classified as Inceptisols.

Soils on terraces above the current flood plain are more stable and have been in place longer. They exhibit somewhat more soil development. Chenango, Tunkhannock, and Wyoming soils are examples.



Figure 15.—A profile of a Delaware soil in Sussex County, New Jersey (USDA–NRCS, 2009). Delaware soils are very deep and well drained. They formed in postglacial alluvium deposited along the Delaware River in the Delaware Valley. Note the lack of rock fragments. Depths on the tape are in inches.

All the soils in the park are in early stages of development, because they all formed since the retreat of the last glaciers around 12,000 years ago.

Topography and Relief

Topography refers to the shape of the landscape, and relief refers to differences in elevation. The overall landscape in an area, including river terraces, rolling hills, and steep mountains, is the result of erosion and depositional processes. These processes may have occurred in response to changes in climate, fluctuating sea levels, and tectonic activities. Cyclic periods of landscape stability and instability influence the types of soils that form.

Relief influences soil formation mainly through its effect on runoff and erosion. It also influences soil temperature, plant cover, depth to a water table, and the accumulation and removal of organic matter. Water that runs off the more sloping soils can collect in depressions or drainage ways. Because relief causes differences in external soil drainage, relief can differentiate soils that formed in the same kind of parent material. The Alden and Swartswood soils in the park illustrate this differentiation. These soils both formed in till derived from sandstone and conglomerate. The nearly level to steep Swartswood soils are well drained. They are on upland summits and side slopes where there is external drainage. The nearly level Alden soils are very poorly drained. They are in depressions and drainage ways that receive runoff from upland areas.

Slope and aspect of the overall landscape can affect the moisture and temperature of the soil. Like a south-facing side of a house is warmer than a north-facing side, steep slopes facing the sun are warmer than more level soils facing other directions. Steep soils can erode and lose their surface horizons as they form. Thus, steeper soils may be thinner than more nearly level soils that receive deposits from areas upslope. Deeper, darker soils may be expected on the bottom land. Soil-forming factors continue to affect soils even on “stable” landscapes. Materials are deposited on their surface, and materials are blown or washed away from their surface. Additions, removals, and alterations can be slow or rapid, depending on climate, landscape position, and biological activity.

The park is in the glaciated low plateaus of the Appalachian Plateaus province, which has variable relief. The topography consists of rounded hills and broad to narrow valleys, all of which have been glaciated. In areas of the alluvial deposits in the Delaware Valley, the soils generally have broad, gentle slopes. Some areas along the river are nearly level. The soils that formed in the glaciofluvial deposits of the Upper Delaware Valley mainly have broad, gentle slopes. Some have steep side slopes as well. Swamps and peat bogs formed throughout the area in glaciated depressions or kettles. Kettles are depressions that formed by the melt-out of incorporated ice blocks on outwash and till plains. Relief is more pronounced where resistant sandstones were carved and have formed prominent cliffs, such as Hawks Nest Overlook north of Port Jervis.

In places, the park has bedrock-controlled topography consisting of steep side slopes and undulating summits. The summits formed from more-resistant rocks that had been smoothed by glacial activity. The differences in relief in the bedrock-controlled areas are due to differential resistance to destruction by glaciers. Hard bedrocks, like some of the siltstones and sandstones of the Catskill Formation, were not broken apart and carried away by the glaciers. Arnot soils are commonly intermixed with rock outcrop on the steep landscapes.

Figure 16 shows soil-landscape relationships in the area of the Shohola Rapids on the Delaware River.

Some landscape positions and parent materials favor the development of certain soil profile characteristics or diagnostic horizons. Lackawanna, Mardin, Norchip, Rexford, Shohola, Swartswood, and Wellsboro soils in the park all have a dense horizon called a “fragipan.” Fragipans are common in this area of the northeastern

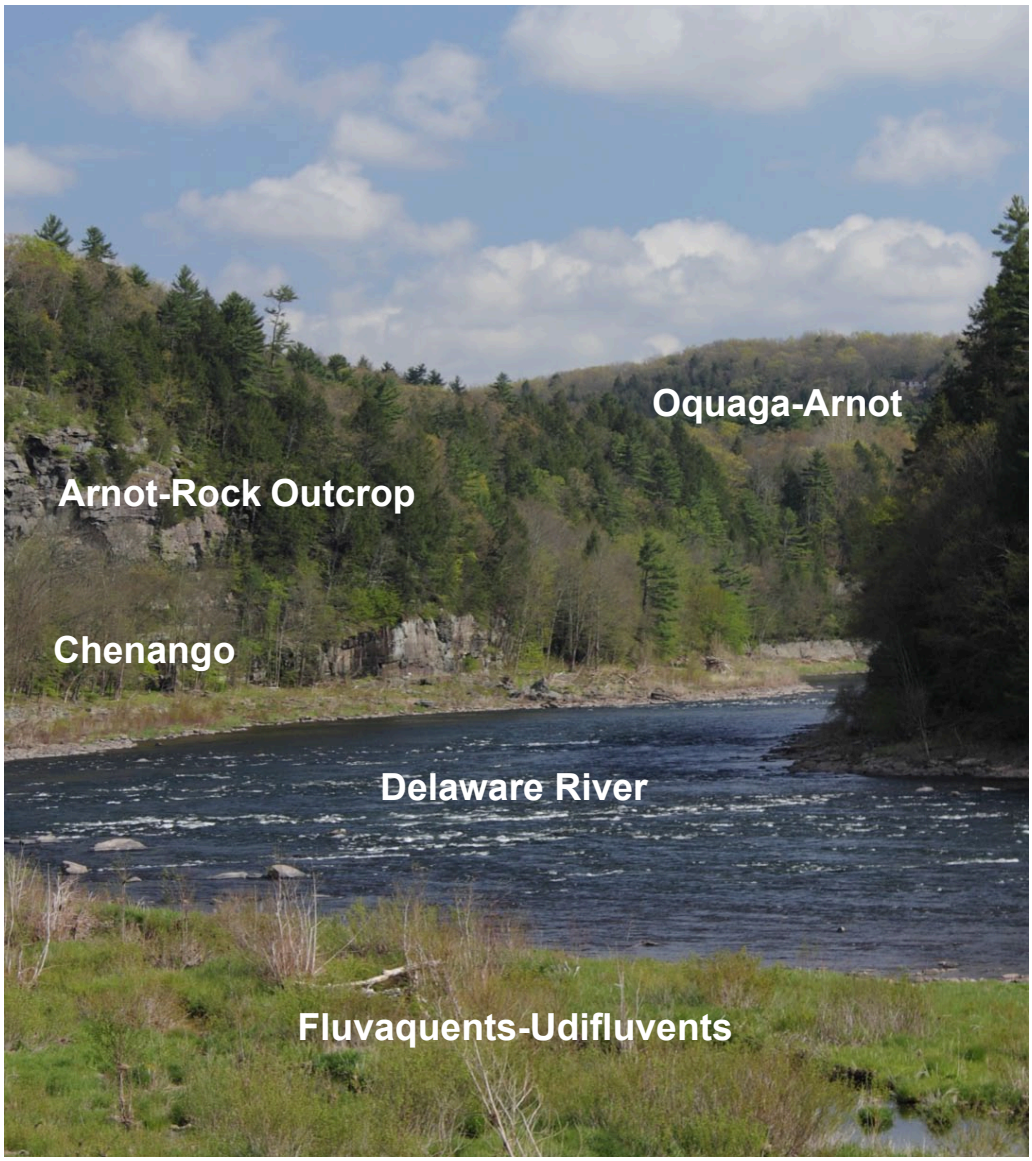


Figure 16.—Relationship of soils to landscape position near Shohola Rapids. Arnot soils are shallow, formed in residuum, and commonly are mapped in complex with exposures of rock outcrop on steep slopes. Oquaga soils are moderately deep and formed in till over steep bedrock. Chenango soils are very deep and formed on water-sorted outwash plains and steep alluvial fans. Fluvaquents are wet, are very deep, and formed in alluvium on flood plains. Udifluvents are very deep and formed in alluvium on flood plains in higher positions than the Fluvaquents.

United States. A fragipan has a low content of organic matter and a high bulk density in relation to other horizons above it. The fragipan restricts water movement through the soils. The effects of restricted water movement can be seen in soil profiles as grey colors. It is not known exactly how and why fragipans form, but some generalizations can be made about them. They show evidence of pedogenesis, usually as clay movement; they have a higher content of silt and/or very fine sand than geographically associated soils without fragipans; they occur at depths where the soil does not freeze; and they typically formed under forested vegetation (Soil Survey Staff, 1999). All soils that have a fragipan are named with “fragi” as part of their taxonomic classification (tables 21 and 22).

If left unvegetated, most of the soils in the park are affected by slope instability and high erosion rates. The geologic units underlying the slopes of the park contain a heterogeneous mix of shale, sandstone, siltstone, limestone, dolomite, conglomerate, and mudstone. Clay-rich units (e.g., shale and mudstone) may disintegrate when they become saturated and are prone to fail when exposed on a slope. Where more resistant rock units, such as conglomerates, sandstone, and limestone, are located above weaker units, undercutting occurs due to preferential erosion and can cause rock fall hazards. Figures 17, 18, 19, and 20 represent landscape and soil relationships found in the park.

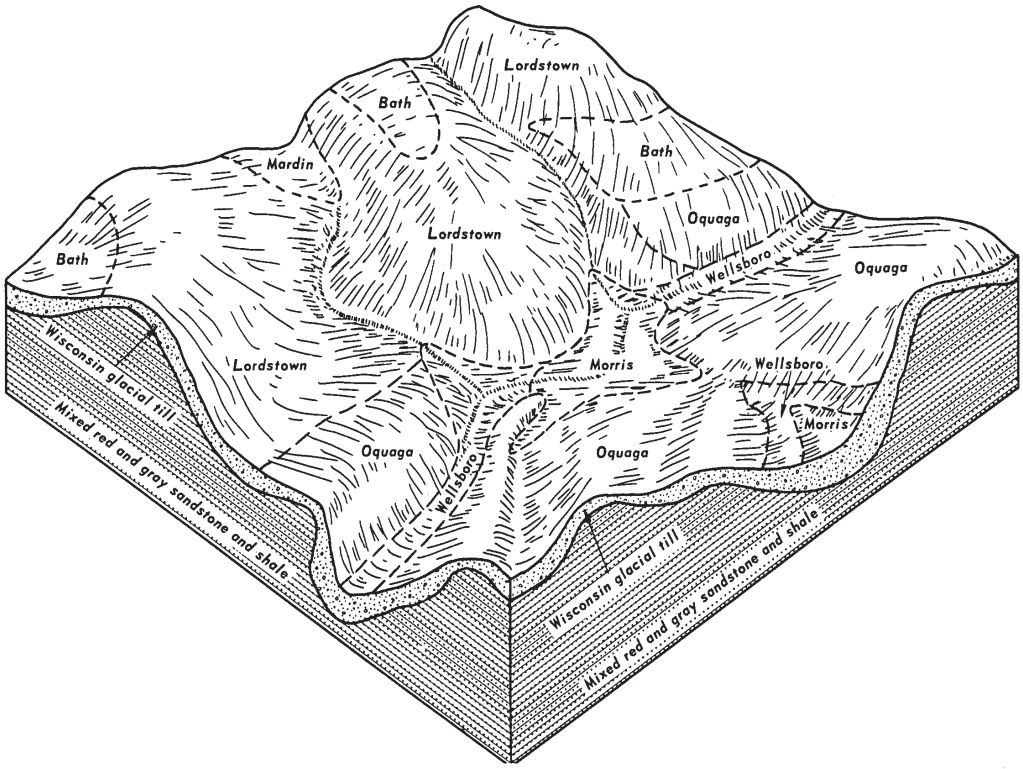


Figure 17.—Typical relationship of soils to till, parent material, and landscape position. The illustrated soils are widely distributed in the park. Bath soils are very deep, are well drained, and formed in till. Lordstown soils are moderately deep, are well drained, and formed in till and cryoturbate derived from siltstone and sandstone on bedrock-controlled landforms of glaciated dissected plateaus. Morris soils are very deep, are somewhat poorly drained, and formed in till from red sandstone, siltstone, and shale. They have a dense fragipan layer that restricts root penetration and water movement. This image was originally published in the Soil Survey of Monroe County, Pennsylvania. (USDA–SCS, 1981)

Classification of the Soils

Soils are named and classified on the basis of physical and chemical properties in their horizons (layers). Color, texture, structure, and other properties of the soil to a depth of 2 meters are used to key the soil into a classification system. This system helps people to use soil information and also provides a common language for scientists. Some of the classifications used in the park may be updated in the future.

Soils and their horizons differ from one another, depending on how and when they formed. Soil scientists use the five soil-forming factors to help predict where different soils may occur. The degree and expression of the soil horizons reflect the extent of

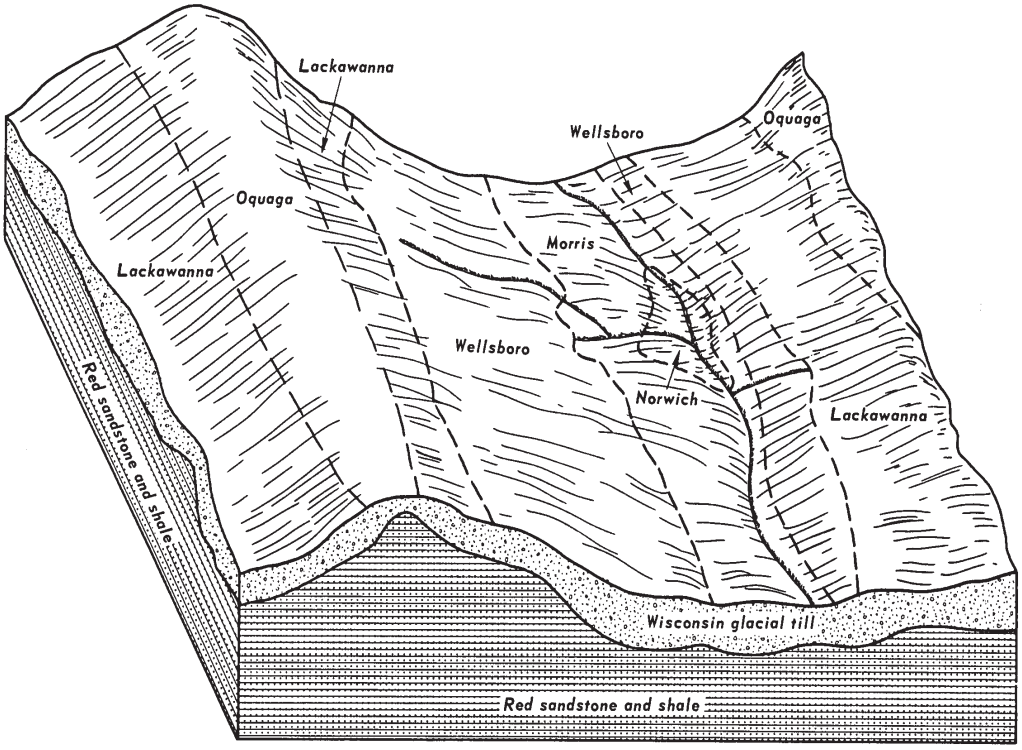


Figure 18.—Typical relationship of soils to till, parent material, underlying rock formations, and landscape position. The illustrated soils are widely distributed in the park. Lackawanna soils are very deep, well drained, and on uplands. They formed in till derived from reddish sandstone, siltstone, and shale. Oquaga soils are moderately deep, are somewhat excessively drained, and formed in a thin mantle of till over sandstone, siltstone, and shale bedrock on nearly level to very steep uplands. Wellsboro soils are very deep, are moderately well drained and somewhat poorly drained, and formed in till. This image was originally published in the Soil Survey of Monroe County, Pennsylvania. (USDA–SCS, 1981)

interaction of the soil-forming factors with one or more of the soil-forming processes (Simonson, 1959).

When mapping soils, a soil scientist looks for areas with similar soil-forming factors to find similar soils. The properties of the soils are described. Soils are given taxonomic names based on the properties. Soils are classified, mapped, and interpreted on the basis of various kinds of soil horizons and their arrangement. The distribution of soil orders corresponds with the general patterns of the soil-forming factors within the park.

The system of soil classification used by the National Cooperative Soil Survey has six categories (Soil Survey Staff, 1999 and 2010). Beginning with the broadest, these categories are the order, suborder, great group, subgroup, family, and series. Classification is based on soil properties observed in the field or inferred from those observations or from laboratory measurements. The categories are defined in the following paragraphs.

ORDER. Soil taxonomy identifies 12 soil orders at the highest hierarchical level. The names for the orders and taxonomic soil properties relate to Greek, Latin, or other root words that reveal something about the soil. The differences among orders reflect the dominant soil-forming processes and the degree of soil formation. Each order is identified by a word ending in *sol.* An example is Inceptisol.

SUBORDER. Each order is divided into suborders primarily on the basis of properties that influence soil genesis and are important to plant growth or properties that reflect the most important variables within the orders. Sixty-four suborders are



Figure 19.—An area of Oquaga and Lackawanna soils in the nearby Delaware Water Gap National Recreation Area (USDA–NRCS and USDI–NPS, 2013b). These soils are mapped as a complex on ground moraines. Oquaga soils have a high rock content; Lackawanna soils have fewer rock fragments and are located in lower positions on the landscape.

recognized at this level of classification. The last syllable in the name of a suborder indicates the order. An example is Udept (*Ud,* meaning humid, plus *ept,* from Inceptisol).

GREAT GROUP. Each suborder is divided into great groups on the basis of close similarities in kind, arrangement, and degree of development of pedogenic horizons; soil moisture and temperature regimes; type of saturation; and base status. There are about 300 great groups. Each great group is identified by the name of a suborder and by a prefix that indicates a property of the soil. An example is Fragiudepts (*Fragi,* meaning having a fragipan, plus *udept,* the suborder of the Inceptisols that has a udic moisture regime).

SUBGROUP. Soil taxonomy identifies more than 2,400 subgroups. Each great group has a typic subgroup. The typic subgroup is the central concept of the great group; it is not necessarily the most extensive. Other subgroups are intergrades or extragrades. Intergrades are transitions to other orders, suborders, or great groups. Extragrades have some properties that are not representative of the great group but do not indicate transitions to any other taxonomic class. Each subgroup is identified by one or more adjectives preceding the name of the great group. The adjective *Typic* identifies the subgroup that typifies the great group. An example is Typic Fragiudepts.

FAMILY. Families are established within a subgroup on the basis of physical and chemical properties and other characteristics that affect management. Generally, the properties for family placement are those of horizons below traditional plow depth. Among the properties and characteristics considered are particle-size class, mineralogy class, cation-exchange activity class, soil temperature regime, soil depth, and reaction class. A family name consists of the name of a subgroup preceded by terms that indicate soil properties. An example is coarse-loamy, mixed, active, mesic Typic Fragiudepts

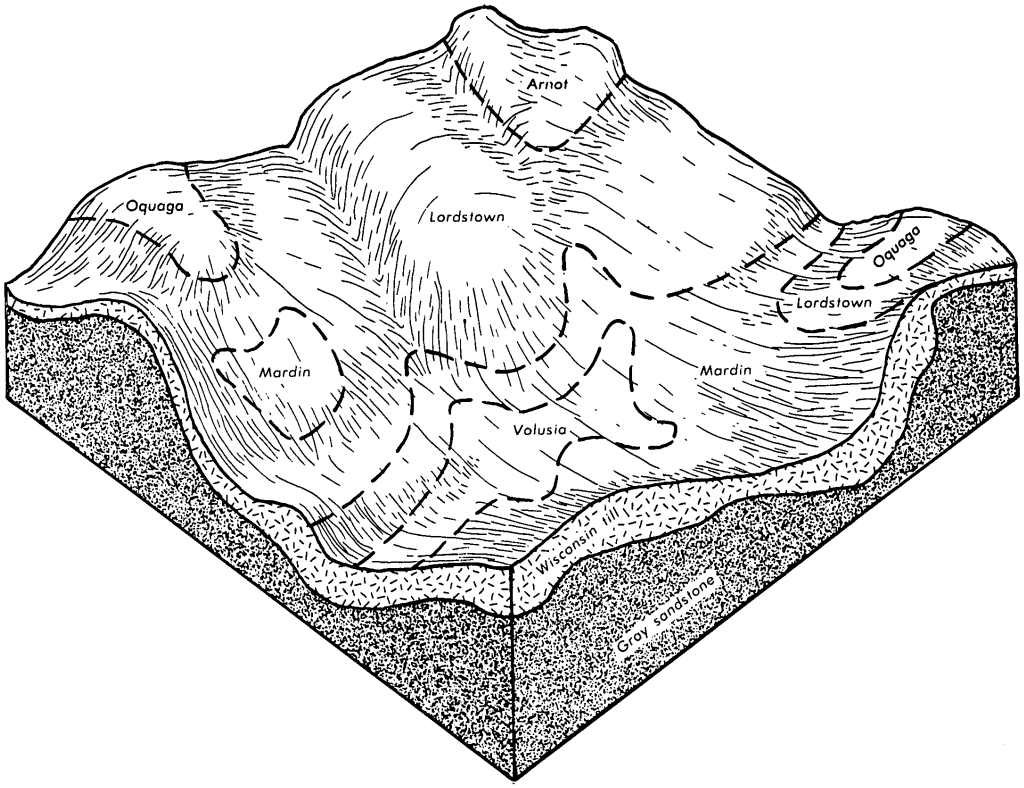


Figure 20.—Typical relationship of soils to till, underlying rock formations, and landscape position. Volusia soils are very deep, are somewhat poorly drained, and formed in loamy till. They are in concave to planer landscape positions in glaciated upland areas. They have a dense fragipan at a depth of 10 to 22 inches below the surface. Mardin soils are very deep, are moderately well drained, and formed in loamy till. They are in glaciated uplands, mostly on broad hilltops, shoulder slopes, and backslopes in areas above the Volusia soils. The Mardin soils have a dense fragipan that starts at a depth of about 14 to 26 inches below the surface. The illustrated soils are in the part of the park in Wayne County, Pennsylvania. This image was originally published in the Soil Survey of Wayne County, Pennsylvania (USDA–SCS, 1985).

SERIES. The soil series is the lowest category in the soil classification system. The series consists of soils within a family that have horizons similar in color, texture, structure, reaction, consistence, mineral and chemical composition, and arrangement in the profile. An example is the Lackawanna series. Soils in the Lackawanna series are coarse-loamy, mixed, active, mesic Typic Fragiudepts.

Most parks are mapped to the series level. The names of soil series are selected by the soil scientists during the course of mapping. The series names are commonly geographic place names. Because of access limitations and soil variability, some soils are only classified to the great group or subgroup level. Udifluvents and Medihemists are examples of soils mapped in the park at a higher category than series.

Table 21, “Taxonomic Classification of the Soils,” indicates the order, suborder, great group, subgroup, and family of the soil series in the park. Table 22, “Soil Classification Key,” displays the classifications sorted by order.

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Glossary

Many of the terms relating to landforms, geology, and geomorphology are defined in more detail in the “National Soil Survey Handbook” (available in local offices of the Natural Resources Conservation Service or on the Internet).

ABC soil. A soil having an A, a B, and a C horizon.

Ablation till. Loose, relatively permeable earthy material deposited during the downwasting of nearly static glacial ice, either contained within or accumulated on the surface of the glacier.

Aeration, soil. The exchange of air in soil with air from the atmosphere. The air in a well aerated soil is similar to that in the atmosphere; the air in a poorly aerated soil is considerably higher in carbon dioxide and lower in oxygen.

Aggregate, soil. Many fine particles held in a single mass or cluster. Natural soil aggregates, such as granules, blocks, or prisms, are called peds. Clods are aggregates produced by tillage or logging.

Alluvial fan. A low, outspread mass of loose materials and/or rock material, commonly with gentle slopes. It is shaped like an open fan or a segment of a cone. The material was deposited by a stream at the place where it issues from a narrow mountain valley or upland valley or where a tributary stream is near or at its junction with the main stream. The fan is steepest near its apex, which points upstream, and slopes gently and convexly outward (downstream) with a gradual decrease in gradient.

Alluvium. Unconsolidated material, such as gravel, sand, silt, clay, and various mixtures of these, deposited on land by running water.

Aquic conditions. Current soil wetness characterized by saturation, reduction, and redoximorphic features.

Aspect. The direction toward which a slope faces. Also called slope aspect.

Available water capacity (available moisture capacity). The capacity of soils to hold water available for use by most plants. It is commonly defined as the difference between the amount of soil water at field moisture capacity and the amount at wilting point. It is commonly expressed as inches of water per inch of soil. The capacity, in inches, in a 60-inch profile or to a limiting layer is expressed as:

Very low	0 to 3
Low	3 to 6
Moderate	6 to 9
High	9 to 12
Very high	more than 12

Backslope. The position that forms the steepest and generally linear, middle portion of a hillslope. In profile, backslopes are commonly bounded by a convex shoulder above and a concave footslope below.

Backswamp. A flood-plain landform. Extensive, marshy or swampy, depressed areas of flood plains between natural levees and valley sides or terraces.

Base saturation. The degree to which material having cation-exchange properties is saturated with exchangeable bases (sum of Ca, Mg, Na, and K), expressed as a percentage of the total cation-exchange capacity.

Base slope (geomorphology). A geomorphic component of hills consisting of the concave to linear (perpendicular to the contour) slope that, regardless of the lateral shape, forms an apron or wedge at the bottom of a hillside dominated by colluvium and slope-wash sediments (for example, slope alluvium).

Bedrock. The solid rock that underlies the soil and other unconsolidated material or that is exposed at the surface.

Bedrock-controlled topography. A landscape where the configuration and relief of the landforms are determined or strongly influenced by the underlying bedrock.

Bench terrace. A raised, level or nearly level strip of earth constructed on or nearly on a contour, supported by a barrier of rocks or similar material, and designed to make the soil suitable for tillage and to prevent accelerated erosion.

Bottom land. An informal term loosely applied to various portions of a flood plain.

Boulders. Rock fragments larger than 2 feet (60 centimeters) in diameter.

Brush management. Use of mechanical, chemical, or biological methods to make conditions favorable for reseeding or to reduce or eliminate competition from woody vegetation and thus allow understory grasses and forbs to recover. Brush management increases forage production and thus reduces the hazard of erosion. It can improve the habitat for some species of wildlife.

Calcareous soil. A soil containing enough calcium carbonate (commonly combined with magnesium carbonate) to effervesce visibly when treated with cold, dilute hydrochloric acid.

Canopy. The leafy crown of trees or shrubs. (See Crown.)

Capillary water. Water held as a film around soil particles and in tiny spaces between particles. Surface tension is the adhesive force that holds capillary water in the soil.

Cation. An ion carrying a positive charge of electricity. The common soil cations are calcium, potassium, magnesium, sodium, and hydrogen.

Cation-exchange capacity. The total amount of exchangeable cations that can be held by the soil, expressed in terms of milliequivalents per 100 grams of soil at neutrality (pH 7.0) or at some other stated pH value. The term, as applied to soils, is synonymous with base-exchange capacity but is more precise in meaning.

Channery soil material. Soil material that has, by volume, 15 to 35 percent thin, flat fragments of sandstone, shale, slate, limestone, or schist as much as 6 inches (15 centimeters) along the longest axis. A single piece is called a channer.

Chemical treatment. Control of unwanted vegetation through the use of chemicals.

Clay. As a soil separate, the mineral soil particles less than 0.002 millimeter in diameter. As a soil textural class, soil material that is 40 percent or more clay, less than 45 percent sand, and less than 40 percent silt.

Clay depletions. See Redoximorphic features.

Clay film. A thin coating of oriented clay on the surface of a soil aggregate or lining pores or root channels. Synonyms: clay coating, clay skin.

Claypan. A dense, compact, slowly permeable subsoil layer that contains much more clay than the overlying materials, from which it is separated by a sharply defined boundary. A claypan is commonly hard when dry and plastic and sticky when wet.

Coarse textured soil. Sand or loamy sand.

Cobble (or cobblestone). A rounded or partly rounded fragment of rock 3 to 10 inches (7.6 to 25 centimeters) in diameter.

Cobbly soil material. Material that has 15 to 35 percent, by volume, rounded or partially rounded rock fragments 3 to 10 inches (7.6 to 25 centimeters) in diameter. Very cobbly soil material has 35 to 60 percent of these rock fragments, and extremely cobbly soil material has more than 60 percent.

COLE (coefficient of linear extensibility). See Linear extensibility.

Colluvium. Unconsolidated, unsorted earth material being transported or deposited on side slopes and/or at the base of slopes by mass movement (e.g., direct gravitational action) and by local, unconcentrated runoff.

Complex, soil. A map unit of two or more kinds of soil or miscellaneous areas in such an intricate pattern or so small in area that it is not practical to map them separately at the selected scale of mapping. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas.

Concretions. See Redoximorphic features.

Conglomerate. A coarse grained, clastic sedimentary rock composed of rounded or subangular rock fragments more than 2 millimeters in diameter. It commonly has a matrix of sand and finer textured material. Conglomerate is the consolidated equivalent of gravel.

Consistence, soil. Refers to the degree of cohesion and adhesion of soil material and its resistance to deformation when ruptured. Consistence includes resistance of soil material to rupture and to penetration; plasticity, toughness, and stickiness of puddled soil material; and the manner in which the soil material behaves when subject to compression. Terms describing consistence are defined in the "Soil Survey Manual."

Control section. The part of the soil on which classification is based. The thickness varies among different kinds of soil, but for many it is that part of the soil profile between depths of 10 inches and 40 or 80 inches.

Coprogenous earth (sedimentary peat). A type of limnic layer composed predominantly of fecal material derived from aquatic animals.

Corrosion (geomorphology). A process of erosion whereby rocks and soil are removed or worn away by natural chemical processes, especially by the solvent action of running water, but also by other reactions, such as hydrolysis, hydration, carbonation, and oxidation.

Corrosion (soil survey interpretations). Soil-induced electrochemical or chemical action that dissolves or weakens concrete or uncoated steel.

Cover crop. A close-growing crop grown primarily to improve and protect the soil between periods of regular crop production, or a crop grown between trees and vines in orchards and vineyards.

Crop residue management. Returning crop residue to the soil, which helps to maintain soil structure, organic matter content, and fertility and helps to control erosion.

Cross-slope farming. Deliberately conducting farming operations on sloping farmland in such a way that tillage is across the general slope.

Crown. The upper part of a tree or shrub, including the living branches and their foliage.

Cryoturbate. A mass of soil or other unconsolidated earthy material moved or disturbed by frost action. It is typically coarser than the underlying material.

Delta. A body of alluvium having a surface that is fan shaped and nearly flat; deposited at or near the mouth of a river or stream where it enters a body of relatively quiet water, generally a sea or lake.

Dense layer (in tables). A very firm, massive layer that has a bulk density of more than 1.8 grams per cubic centimeter. Such a layer affects the ease of digging and can affect filling and compacting.

Depth, soil. Generally, the thickness of the soil over bedrock. Very deep soils are more than 60 inches deep over bedrock; deep soils, 40 to 60 inches; moderately deep, 20 to 40 inches; shallow, 10 to 20 inches; and very shallow, less than 10 inches.

Diatomaceous earth. A geologic deposit of fine, grayish siliceous material composed chiefly or entirely of the remains of diatoms.

Dip slope. A slope of the land surface, roughly determined by and approximately conforming to the dip of the underlying bedrock.

Drainage class (natural). Refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a

consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized—*excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained,* and *very poorly drained*. These classes are defined in the "Soil Survey Manual."

Drainage, surface. Runoff, or surface flow of water, from an area.

Drainageway. A general term for a course or channel along which water moves in draining an area. A term restricted to relatively small, linear depressions that at some time move concentrated water and either do not have a defined channel or have only a small defined channel.

Drift. A general term applied to all mineral material (clay, silt, sand, gravel, and boulders) transported by a glacier and deposited directly by or from the ice or transported by running water emanating from a glacier. Drift includes unstratified material (till) that forms moraines and stratified deposits that form outwash plains, eskers, kames, varves, and glaciofluvial sediments. The term is generally applied to Pleistocene glacial deposits in areas that no longer contain glaciers.

Drumlin. A low, smooth, elongated oval hill, mound, or ridge of compact till that has a core of bedrock or drift. It commonly has a blunt nose facing the direction from which the ice approached and a gentler slope tapering in the other direction. The longer axis is parallel to the general direction of glacier flow. Drumlins are products of streamline (laminar) flow of glaciers, which molded the subglacial floor through a combination of erosion and deposition.

Duff. A generally firm organic layer on the surface of mineral soils. It consists of fallen plant material that is in the process of decomposition and includes everything from the litter on the surface to underlying pure humus.

Dune. A low mound, ridge, bank, or hill of loose, windblown granular material (generally sand), either barren and capable of movement from place to place or covered and stabilized with vegetation but retaining its characteristic shape.

Eolian deposit. Sand-, silt-, or clay-sized clastic material transported and deposited primarily by wind, commonly in the form of a dune or a sheet of sand or loess.

Erosion. The wearing away of the land surface by water, wind, ice, or other geologic agents and by such processes as gravitational creep.

Erosion (geologic). Erosion caused by geologic processes acting over long geologic periods and resulting in the wearing away of mountains and the building up of such landscape features as flood plains and coastal plains. Synonym: natural erosion.

Erosion (accelerated). Erosion much more rapid than geologic erosion, mainly as a result of human or animal activities or of a catastrophe in nature, such as a fire, that exposes the surface.

Erosion pavement. A surficial lag concentration or layer of gravel and other rock fragments that remains on the soil surface after sheet or rill erosion or wind has removed the finer soil particles and that tends to protect the underlying soil from further erosion.

Erosion surface. A land surface shaped by the action of erosion, especially by running water.

Escarpment. A relatively continuous and steep slope or cliff breaking the general continuity of more gently sloping land surfaces and resulting from erosion or faulting. Most commonly applied to cliffs produced by differential erosion. Synonym: scarp.

Esker. A long, narrow, sinuous, steep-sided ridge of stratified sand and gravel deposited as the bed of a stream flowing in an ice tunnel within or below the ice (subglacial) or between ice walls on top of the ice of a wasting glacier and left behind as high ground when the ice melted. Eskers range in length from less than a kilometer to more than 160 kilometers and in height from 3 to 30 meters.

Fertility, soil. The quality that enables a soil to provide plant nutrients, in adequate amounts and in proper balance, for the growth of specified plants when light, moisture, temperature, tilth, and other growth factors are favorable.

Fibric soil material (peat). The least decomposed of all organic soil material. Peat contains a large amount of well preserved fiber that is readily identifiable according to botanical origin. Peat has the lowest bulk density and the highest water content at saturation of all organic soil material.

Field moisture capacity. The moisture content of a soil, expressed as a percentage of the ovendry weight, after the gravitational, or free, water has drained away; the field moisture content 2 or 3 days after a soaking rain; also called *normal field capacity, normal moisture capacity,* or *capillary capacity*.

Fine textured soil. Sandy clay, silty clay, or clay.

Flaggy soil material. Material that has, by volume, 15 to 35 percent flagstones. Very flaggy soil material has 35 to 60 percent flagstones, and extremely flaggy soil material has more than 60 percent flagstones.

Flagstone. A thin fragment of sandstone, limestone, slate, shale, or (rarely) schist 6 to 15 inches (15 to 38 centimeters) long.

Flood plain. The nearly level plain that borders a stream and is subject to flooding unless protected artificially.

Flood-plain landforms. A variety of constructional and erosional features produced by stream channel migration and flooding. Examples include backswamps, flood-plain splays, meanders, meander belts, meander scrolls, oxbow lakes, and natural levees.

Flood-plain splay. A fan-shaped deposit or other outspread deposit formed where an overloaded stream breaks through a levee (natural or artificial) and deposits its material (commonly coarse grained) on the flood plain.

Flood-plain step. An essentially flat, terrace-like alluvial surface within a valley that is frequently covered by floodwater from the present stream; any approximately horizontal surface still actively modified by fluvial scour and/or deposition. May occur individually or as a series of steps.

Fluvial. Of or pertaining to rivers or streams; produced by stream or river action.

Footslope. The concave surface at the base of a hillslope. A footslope is a transition zone between upslope sites of erosion and transport (shoulders and backslopes) and downslope sites of deposition (toeslopes).

Forb. Any herbaceous plant not a grass or a sedge.

Forest cover. All trees and other woody plants (underbrush) covering the ground in a forest.

Forest type. A stand of trees similar in composition and development because of given physical and biological factors by which it may be differentiated from other stands.

Fragipan. A loamy, brittle subsurface horizon low in porosity and content of organic matter and low or moderate in clay but high in silt or very fine sand. A fragipan appears cemented and restricts roots. When dry, it is hard or very hard and has a higher bulk density than the horizon or horizons above. When moist, it tends to rupture suddenly under pressure rather than to deform slowly.

Genesis, soil. The mode of origin of the soil. Refers especially to the processes or soil-forming factors responsible for the formation of the solum, or true soil, from the unconsolidated parent material.

Glaciofluvial deposits. Material moved by glaciers and subsequently sorted and deposited by streams flowing from the melting ice. The deposits are stratified and occur in the form of outwash plains, valley trains, deltas, kames, eskers, and kame terraces.

Glaciolacustrine deposits. Material ranging from fine clay to sand derived from glaciers and deposited in glacial lakes mainly by glacial meltwater. Many deposits are bedded or laminated.

Gravel. Rounded or angular fragments of rock as much as 3 inches (2 millimeters to 7.6 centimeters) in diameter. An individual piece is a pebble.

Gravelly soil material. Material that has 15 to 35 percent, by volume, rounded or angular rock fragments, not prominently flattened, as much as 3 inches (7.6 centimeters) in diameter.

Ground water. Water filling all the unblocked pores of the material below the water table.

Hard bedrock. Bedrock that cannot be excavated except by blasting or by the use of special equipment that is not commonly used in construction.

Hard to reclaim (in tables). Reclamation is difficult after the removal of soil for construction and other uses. Revegetation and erosion control are extremely difficult.

Hardpan. A hardened or cemented soil horizon, or layer. The soil material is sandy, loamy, or clayey and is cemented by iron oxide, silica, calcium carbonate, or other substance.

Head slope (geomorphology). A geomorphic component of hills consisting of a laterally concave area of a hillside, especially at the head of a drainageway. The overland waterflow is converging.

Hemic soil material (mucky peat). Organic soil material intermediate in degree of decomposition between the less decomposed fibric material and the more decomposed sapric material.

Hill. A generic term for an elevated area of the land surface, rising as much as 1,000 feet above surrounding lowlands, commonly of limited summit area and having a well defined outline. Slopes are generally more than 15 percent. The distinction between a hill and a mountain is arbitrary and may depend on local usage.

Hillslope. A generic term for the steeper part of a hill between its summit and the drainage line, valley flat, or depression floor at the base of a hill.

Horizon, soil. A layer of soil, approximately parallel to the surface, having distinct characteristics produced by soil-forming processes. In the identification of soil horizons, an uppercase letter represents the major horizons. Numbers or lowercase letters that follow represent subdivisions of the major horizons. An explanation of the subdivisions is given in the “Soil Survey Manual.” The major horizons of mineral soil are as follows:

O horizon.—An organic layer of fresh and decaying plant residue.

L horizon.—A layer of organic and mineral limnic materials, including coprogenous earth (sedimentary peat), diatomaceous earth, and marl.

A horizon.—The mineral horizon at or near the surface in which an accumulation of humified organic matter is mixed with the mineral material. Also, a plowed surface horizon, most of which was originally part of a B horizon.

E horizon.—The mineral horizon in which the main feature is loss of silicate clay, iron, aluminum, or some combination of these.

B horizon.—The mineral horizon below an A horizon. The B horizon is in part a layer of transition from the overlying A to the underlying C horizon. The B horizon also has distinctive characteristics, such as (1) accumulation of clay, sesquioxides, humus, or a combination of these; (2) prismatic or blocky structure; (3) redder or browner colors than those in the A horizon; or (4) a combination of these.

C horizon.—The mineral horizon or layer, excluding indurated bedrock, that is little affected by soil-forming processes and does not have the properties typical of the overlying soil material. The material of a C horizon may be either like or unlike that in which the solum formed. If the material is known to differ from that in the solum, an Arabic numeral, commonly a 2, precedes the letter C.

Cr horizon.—Soft, consolidated bedrock beneath the soil.

R layer.—Consolidated bedrock beneath the soil. The bedrock commonly underlies a C horizon, but it can be directly below an A or a B horizon.

Humus. The well decomposed, more or less stable part of the organic matter in mineral soils.

Hydrologic soil groups. Refers to soils grouped according to their runoff potential. The soil properties that influence this potential are those that affect the minimum rate of water infiltration on a bare soil during periods after prolonged wetting when the soil is not frozen. These properties are depth to a seasonal high water table, the infiltration rate and permeability after prolonged wetting, and depth to a very slowly permeable layer. The slope and the kind of plant cover are not considered but are separate factors in predicting runoff.

Impervious soil. A soil through which water, air, or roots penetrate slowly or not at all. No soil is absolutely impervious to air and water all the time.

Infiltration. The downward entry of water into the immediate surface of soil or other material, as contrasted with percolation, which is movement of water through soil layers or material.

Infiltration capacity. The maximum rate at which water can infiltrate into a soil under a given set of conditions.

Infiltration rate. The rate at which water penetrates the surface of the soil at any given instant, usually expressed in inches per hour. The rate can be limited by the infiltration capacity of the soil or the rate at which water is applied at the surface.

Intake rate. The average rate of water entering the soil under irrigation. Most soils have a fast initial rate; the rate decreases with application time. Therefore, intake rate for design purposes is not a constant but is a variable depending on the net irrigation application. The rate of water intake, in inches per hour, is expressed as follows:

Less than 0.2	very low
0.2 to 0.4	low
0.4 to 0.75	moderately low
0.75 to 1.25	moderate
1.25 to 1.75	moderately high
1.75 to 2.5	high
More than 2.5	very high

Iron depletions. See Redoximorphic features.

Irrigation. Application of water to soils to assist in production of crops. Methods of irrigation are:

Basin.—Water is applied rapidly to nearly level plains surrounded by levees or dikes.

Border.—Water is applied at the upper end of a strip in which the lateral flow of water is controlled by small earth ridges called border dikes, or borders.

Controlled flooding.—Water is released at intervals from closely spaced field ditches and distributed uniformly over the field.

Corrugation.—Water is applied to small, closely spaced furrows or ditches in fields of close-growing crops or in orchards so that it flows in only one direction.

Drip (or trickle).—Water is applied slowly and under low pressure to the surface of the soil or into the soil through such applicators as emitters, porous tubing, or perforated pipe.

Furrow.—Water is applied in small ditches made by cultivation implements. Furrows are used for tree and row crops.

Sprinkler.—Water is sprayed over the soil surface through pipes or nozzles from a pressure system.

Subirrigation.—Water is applied in open ditches or tile lines until the water table is raised enough to wet the soil.

Wild flooding.—Water, released at high points, is allowed to flow onto an area without controlled distribution.

Kame. A low mound, knob, hummock, or short irregular ridge composed of stratified sand and gravel deposited by a subglacial stream as a fan or delta at the margin of a melting glacier; by a supraglacial stream in a low place or hole on the surface of the glacier; or as a ponded deposit on the surface or at the margin of stagnant ice.

Kame terrace. A terrace-like ridge consisting of stratified sand and gravel (a) deposited by a meltwater stream flowing between a melting glacier and a higher valley wall or lateral moraine and (b) left standing after the disappearance of the ice. It is commonly pitted with “kettles” and has an irregular ice-contact slope.

Karst (topography). A kind of topography that formed in limestone, gypsum, or other soluble rocks by dissolution and that is characterized by closed depressions, sinkholes, caves, and underground drainage.

Knoll. A small, low, rounded hill rising above adjacent landforms.

K_{sat}. Saturated hydraulic conductivity. (See Permeability.)

Lacustrine deposit. Material deposited in lake water and exposed when the water level is lowered or the elevation of the land is raised.

Lake plain. A nearly level surface marking the floor of an extinct lake filled by well sorted, generally fine textured, stratified deposits, commonly containing varves.

Landslide. A general, encompassing term for most types of mass movement landforms and processes involving the downslope transport and outward deposition of soil and rock materials caused by gravitational forces; the movement may or may not involve saturated materials. The speed and distance of movement, as well as the amount of soil and rock material, vary greatly.

Large stones (in tables). Rock fragments 3 inches (7.6 centimeters) or more across. Large stones adversely affect the specified use of the soil.

Leaching. The removal of soluble material from soil or other material by percolating water.

Linear extensibility. Refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. Linear extensibility is used to determine the shrink-swell potential of soils. It is an expression of the volume change between the water content of the clod at $^1/_3$- or $^1/_{10}$-bar tension (33kPa or 10kPa tension) and oven dryness. Volume change is influenced by the amount and type of clay minerals in the soil. The volume change is the percent change for the whole soil. If it is expressed as a fraction, the resulting value is COLE, coefficient of linear extensibility.

Liquid limit. The moisture content at which the soil passes from a plastic to a liquid state.

Loam. Soil material that is 7 to 27 percent clay particles, 28 to 50 percent silt particles, and less than 52 percent sand particles.

Loess. Material transported and deposited by wind and consisting dominantly of silt-sized particles.

Low strength. The soil is not strong enough to support loads.

Map unit. A map unit is a collection of areas defined and named the same in terms of their soil components or miscellaneous (nonsoil) areas or both. Each map unit differs in some respect from all others in a survey area, and each has a symbol that uniquely identifies the map unit on a soil map. Each individual polygon, point, or line so identified on the map is referred to as a delineation.

Map unit component. A distinct kind of soil, generally a phase of a taxonomic unit, or miscellaneous (nonsoil) area within a soil map unit. Components can be categorized as either major or minor. The names of major components are used to name the map unit. Each component of a map unit has a unique set of soil properties that differentiates it from other components within the same map unit. Each is assigned a designated range in proportionate extent (percent) within the map unit.

Marl. An earthy, unconsolidated deposit consisting chiefly of calcium carbonate mixed with clay in approximately equal proportions; formed primarily under freshwater lacustrine conditions but also formed in more saline environments.

Mass movement. A generic term for the dislodgment and downslope transport of soil and rock material as a unit under direct gravitational stress.

Masses. See Redoximorphic features.

Meander belt. The zone within which migration of a meandering channel occurs; the flood-plain area included between two imaginary lines drawn tangential to the outer bends of active channel loops.

Meander scar. A crescent-shaped, concave or linear mark on the face of a bluff or valley wall, produced by the lateral erosion of a meandering stream that impinged upon and undercut the bluff.

Meander scroll. One of a series of long, parallel, close-fitting, crescent-shaped ridges and troughs formed along the inner bank of a stream meander as the channel migrated laterally down-valley and toward the outer bank.

Mechanical treatment. Use of mechanical equipment for seeding, brush management, and other management practices.

Medium textured soil. Very fine sandy loam, loam, silt loam, or silt.

Mesic soil temperature regime. The mean annual soil temperature is 8° C or higher but lower than 15° C, and the difference between mean summer and mean winter soil temperatures is more than 6° C either at a depth of 50 cm from the soil surface or at a densic, lithic, or paralithic contact, whichever is shallower.

Mineral soil. Soil that is mainly mineral material and low in organic material. Its bulk density is more than that of organic soil.

Miscellaneous area. A kind of map unit that has little or no natural soil and supports little or no vegetation.

Moderately coarse textured soil. Coarse sandy loam, sandy loam, or fine sandy loam.

Moderately fine textured soil. Clay loam, sandy clay loam, or silty clay loam.

Mollic epipedon. A thick, dark, humus-rich surface horizon (or horizons) that has high base saturation and pedogenic soil structure. It may include the upper part of the subsoil.

Moraine. In terms of glacial geology, a mound, ridge, or other topographically distinct accumulation of unsorted, unstratified drift, predominantly till, deposited primarily by the direct action of glacial ice in a variety of landforms. Also, a general term for a landform composed mainly of till (except for kame moraines, which are composed mainly of stratified outwash) that has been deposited by a glacier. Some types of moraines are disintegration, end, ground, kame, lateral, recessional, and terminal.

Morphology, soil. The physical makeup of the soil, including the texture, structure, porosity, consistence, color, and other physical, mineral, and biological properties of the various horizons, and the thickness and arrangement of those horizons in the soil profile.

Mottling, soil. Irregular spots of different colors that vary in number and size. Descriptive terms are as follows: abundance—*few, common,* and *many;* size—*fine, medium,* and *coarse;* and contrast—*faint, distinct,* and *prominent*. The size measurements are of the diameter along the greatest dimension. *Fine* indicates less than 5 millimeters (about 0.2 inch); *medium,* from 5 to 15 millimeters (about 0.2 to 0.6 inch); and *coarse,* more than 15 millimeters (about 0.6 inch).

Mountain. A generic term for an elevated area of the land surface, rising more than 1,000 feet (300 meters) above surrounding lowlands, commonly of restricted summit area (relative to a plateau) and generally having steep sides. A mountain can occur as a single, isolated mass or in a group forming a chain or range. Mountains are formed primarily by tectonic activity and/or volcanic action but can also be formed by differential erosion.

Muck. Dark, finely divided, well decomposed organic soil material. (See Sapric soil material.)

Mudstone. A blocky or massive, fine grained sedimentary rock in which the proportions of clay and silt are approximately equal. Also, a general term for such material as clay, silt, claystone, siltstone, shale, and argillite and that should be used only when the amounts of clay and silt are not known or cannot be precisely identified.

Munsell notation. A designation of color by degrees of three simple variables—hue, value, and chroma. For example, a notation of 10YR 6/4 is a color with hue of 10YR, value of 6, and chroma of 4.

Neutral soil. A soil having a pH value of 6.6 to 7.3. (See Reaction, soil.)

Nodules. See Redoximorphic features.

Nose slope (geomorphology). A geomorphic component of hills consisting of the projecting end (laterally convex area) of a hillside. The overland waterflow is predominantly divergent. Nose slopes consist dominantly of colluvium and slope-wash sediments (for example, slope alluvium).

Nutrient, plant. Any element taken in by a plant essential to its growth. Plant nutrients are mainly nitrogen, phosphorus, potassium, calcium, magnesium, sulfur, iron, manganese, copper, boron, and zinc obtained from the soil and carbon, hydrogen, and oxygen obtained from the air and water.

Organic matter. Plant and animal residue in the soil in various stages of decomposition. The content of organic matter in the surface layer is described as follows:

Very low	less than 0.5 percent
Low	0.5 to 1.0 percent
Moderately low	1.0 to 2.0 percent
Moderate	2.0 to 4.0 percent
High	4.0 to 8.0 percent
Very high	more than 8.0 percent

Outwash. Stratified and sorted sediments (chiefly sand and gravel) removed or "washed out" from a glacier by meltwater streams and deposited in front of or beyond the end moraine or the margin of a glacier. The coarser material is deposited nearer to the ice.

Outwash plain. An extensive lowland area of coarse textured glaciofluvial material. An outwash plain is commonly smooth; where pitted, it generally is low in relief.

Outwash terrace. A flat-topped bank of outwash with an abrupt outer face (scarp or riser) extending along a valley downstream from an outwash plain or terminal moraine; a valley train deposit.

Pan. A compact, dense layer in a soil that impedes the movement of water and the growth of roots. For example, *hardpan, fragipan, claypan, plowpan,* and *traffic pan*.

Parent material. The unconsolidated organic and mineral material in which soil forms.

Peat. Unconsolidated material, largely undecomposed organic matter, that has accumulated under excess moisture. (See Fibric soil material.)

Ped. An individual natural soil aggregate, such as a granule, a prism, or a block.

Pedon. The smallest volume that can be called "a soil." A pedon is three dimensional and large enough to permit study of all horizons. Its area ranges from about 10 to 100 square feet (1 square meter to 10 square meters), depending on the variability of the soil.

Percolation. The movement of water through the soil.

Permafrost. Ground, soil, or rock that remains at or below 0 degrees C for at least 2 years. It is defined on the basis of temperature and is not necessarily frozen.

Permeability. The quality of the soil that enables water or air to move downward through the profile. The rate at which a saturated soil transmits water is accepted as a measure of this quality. In soil physics, the rate is referred to as "saturated hydraulic conductivity," which is defined in the "Soil Survey Manual." In line with conventional usage in the engineering profession and with traditional

usage in published soil surveys, this rate of flow continues to be expressed as "permeability." Terms describing permeability, measured in inches per hour, are as follows:

Impermeable	less than 0.0015 inch
Very slow	0.0015 to 0.06 inch
Slow	0.06 to 0.2 inch
Moderately slow	0.2 to 0.6 inch
Moderate	0.6 inch to 2.0 inches
Moderately rapid	2.0 to 6.0 inches
Rapid	6.0 to 20 inches
Very rapid	more than 20 inches

pH value. A numerical designation of acidity and alkalinity in soil. (See Reaction, soil.)

Phase, soil. A subdivision of a soil series based on features that affect its use and management, such as slope, stoniness, and flooding.

Piping (in tables). Formation of subsurface tunnels or pipelike cavities by water moving through the soil.

Plastic limit. The moisture content at which a soil changes from semisolid to plastic.

Plasticity index. The numerical difference between the liquid limit and the plastic limit; the range of moisture content within which the soil remains plastic.

Plateau (geomorphology). A comparatively flat area of great extent and elevation; specifically, an extensive land region that is considerably elevated (more than 100 meters) above the adjacent lower lying terrain, is commonly limited on at least one side by an abrupt descent, and has a flat or nearly level surface. A comparatively large part of a plateau surface is near summit level.

Plowpan. A compacted layer formed in the soil directly below the plowed layer.

Ponding. Standing water on soils in closed depressions. Unless the soils are artificially drained, the water can be removed only by percolation or evapotranspiration.

Poorly graded. Refers to a coarse grained soil or soil material consisting mainly of particles of nearly the same size. Because there is little difference in size of the particles, density can be increased only slightly by compaction.

Pore linings. See Redoximorphic features.

Prescribed burning. Deliberately burning an area for specific management purposes, under the appropriate conditions of weather and soil moisture and at the proper time of day.

Productivity, soil. The capability of a soil for producing a specified plant or sequence of plants under specific management.

Profile, soil. A vertical section of the soil extending through all its horizons and into the parent material.

Rangeland. Land on which the potential natural vegetation is predominantly grasses, grasslike plants, forbs, or shrubs suitable for grazing or browsing. It includes natural grasslands, savannas, many wetlands, some deserts, tundras, and areas that support certain forb and shrub communities.

Reaction, soil. A measure of acidity or alkalinity of a soil, expressed as pH values. A soil that tests to pH 7.0 is described as precisely neutral in reaction because it is neither acid nor alkaline. The degrees of acidity or alkalinity, expressed as pH values, are:

Ultra acid	less than 3.5
Extremely acid	3.5 to 4.4
Very strongly acid	4.5 to 5.0
Strongly acid	5.1 to 5.5
Moderately acid	5.6 to 6.0
Slightly acid	6.1 to 6.5
Neutral	6.6 to 7.3
Slightly alkaline	7.4 to 7.8
Moderately alkaline	7.9 to 8.4
Strongly alkaline	8.5 to 9.0
Very strongly alkaline	9.1 and higher

Redoximorphic concentrations. See Redoximorphic features.

Redoximorphic depletions. See Redoximorphic features.

Redoximorphic features. Redoximorphic features are associated with wetness and result from alternating periods of reduction and oxidation of iron and manganese compounds in the soil. Reduction occurs during saturation with water, and oxidation occurs when the soil is not saturated. Characteristic color patterns are created by these processes. The reduced iron and manganese ions may be removed from a soil if vertical or lateral fluxes of water occur, in which case there is no iron or manganese precipitation in that soil. Wherever the iron and manganese are oxidized and precipitated, they form either soft masses or hard concretions or nodules. Movement of iron and manganese as a result of redoximorphic processes in a soil may result in redoximorphic features that are defined as follows:

1. Redoximorphic concentrations.—These are zones of apparent accumulation of iron-manganese oxides, including:
   A. Nodules and concretions, which are cemented bodies that can be removed from the soil intact. Concretions are distinguished from nodules on the basis of internal organization. A concretion typically has concentric layers that are visible to the naked eye. Nodules do not have visible organized internal structure; *and*
   B. Masses, which are noncemented concentrations of substances within the soil matrix; *and*
   C. Pore linings, i.e., zones of accumulation along pores that may be either coatings on pore surfaces or impregnations from the matrix adjacent to the pores.
2. Redoximorphic depletions.—These are zones of low chroma (chromas less than those in the matrix) where either iron-manganese oxides alone or both iron-manganese oxides and clay have been stripped out, including:
   A. Iron depletions, i.e., zones that contain low amounts of iron and manganese oxides but have a clay content similar to that of the adjacent matrix; *and*
   B. Clay depletions, i.e., zones that contain low amounts of iron, manganese, and clay (often referred to as silt coatings or skeletans).
3. Reduced matrix.—This is a soil matrix that has low chroma *in situ* but undergoes a change in hue or chroma within 30 minutes after the soil material has been exposed to air.

Reduced matrix. See Redoximorphic features.

Relief. The relative difference in elevation between the upland summits and the lowlands or valleys of a given region.

Residuum (residual soil material). Unconsolidated, weathered or partly weathered mineral material that accumulated as bedrock disintegrated in place.

Rill. A very small, steep-sided channel resulting from erosion and cut in unconsolidated materials by concentrated but intermittent flow of water. A rill generally is not an obstacle to wheeled vehicles and is shallow enough to be smoothed over by ordinary tillage.

Rise (geomorphology). A geomorphic component of flat plains (e.g., lake plain, low coastal plain, and low-gradient till plain) consisting of a slightly elevated but low, broad area with low slope gradients (e.g., 1 to 3 percent). Typically, a rise is a microfeature, but it can be fairly extensive. Commonly soils on a rise are better drained than those on the surrounding talf.

Riser. The vertical or steep side slope (e.g., escarpment) of terraces, flood-plain steps, or other stepped landforms; commonly a recurring part of a series of natural, steplike landforms, such as successive stream terraces. Its characteristic

shape and alluvial sediment composition are derived from the cut-and-fill processes of a fluvial system.

Rock fragments. Rock or mineral fragments having a diameter of 2 millimeters or more; for example, pebbles, cobbles, stones, and boulders.

Root zone. The part of the soil that can be penetrated by plant roots.

Runoff. The precipitation discharged into stream channels from an area. The water that flows off the surface of the land without sinking into the soil is called surface runoff. Water that enters the soil before reaching surface streams is called ground-water runoff or seepage flow from ground water.

Sand. As a soil separate, individual rock or mineral fragments from 0.05 millimeter to 2.0 millimeters in diameter. Most sand grains consist of quartz. As a soil textural class, a soil that is 85 percent or more sand and not more than 10 percent clay.

Sandstone. Sedimentary rock containing dominantly sand-sized particles.

Sapric soil material (muck). The most highly decomposed of all organic soil material. Muck has the least amount of plant fiber, the highest bulk density, and the lowest water content at saturation of all organic soil material.

Saturated hydraulic conductivity (K_{sat}). See Permeability.

Saturation. Wetness characterized by zero or positive pressure of the soil water. Under conditions of saturation, the water will flow from the soil matrix into an unlined auger hole.

Sedimentary rock. A consolidated deposit of clastic particles, chemical precipitates, or organic remains accumulated at or near the surface of the earth under normal low temperature and pressure conditions. Sedimentary rocks include consolidated equivalents of alluvium, colluvium, drift, and eolian, lacustrine, and marine deposits. Examples are sandstone, siltstone, mudstone, claystone, shale, conglomerate, limestone, dolomite, and coal.

Series, soil. A group of soils that have profiles that are almost alike. All the soils of a given series have horizons that are similar in composition, thickness, and arrangement.

Shale. Sedimentary rock that formed by the hardening of a deposit of clay, silty clay, or silty clay loam and that has a tendency to split into thin layers.

Shoulder. The convex, erosional surface near the top of a hillslope. A shoulder is a transition from summit to backslope.

Shrink-swell (in tables). The shrinking of soil when dry and the swelling when wet. Shrinking and swelling can damage roads, dams, building foundations, and other structures. It can also damage plant roots.

Side slope (geomorphology). A geomorphic component of hills consisting of a laterally planar area of a hillside. The overland waterflow is predominantly parallel. Side slopes are dominantly colluvium and slope-wash sediments.

Silica. A combination of silicon and oxygen. The mineral form is called quartz.

Silt. As a soil separate, individual mineral particles that range in diameter from the upper limit of clay (0.002 millimeter) to the lower limit of very fine sand (0.05 millimeter). As a soil textural class, soil that is 80 percent or more silt and less than 12 percent clay.

Siltstone. An indurated silt having the texture and composition of shale but lacking its fine lamination or fissility; a massive mudstone in which silt predominates over clay.

Similar soils. Soils that share limits of diagnostic criteria, behave and perform in a similar manner, and have similar conservation needs or management requirements for the major land uses in the survey area.

Sinkhole. A closed, circular or elliptical depression, commonly funnel shaped, characterized by subsurface drainage and formed either by dissolution of the surface of underlying bedrock (e.g., limestone, gypsum, or salt) or by collapse of

underlying caves within bedrock. Complexes of sinkholes in carbonate-rock terrain are the main components of karst topography.

Site index. A designation of the quality of a forest site based on the height of the dominant stand at an arbitrarily chosen age. For example, if the average height attained by dominant and codominant trees in a fully stocked stand at the age of 50 years is 75 feet, the site index is 75.

Slope. The inclination of the land surface from the horizontal. Percentage of slope is the vertical distance divided by horizontal distance, then multiplied by 100. Thus, a slope of 20 percent is a drop of 20 feet in 100 feet of horizontal distance.

Slope alluvium. Sediment gradually transported down the slopes of mountains or hills primarily by nonchannel alluvial processes (i.e., slope-wash processes) and characterized by particle sorting. Lateral particle sorting is evident on long slopes. In a profile sequence, sediments may be distinguished by differences in size and/or specific gravity of rock fragments and may be separated by stone lines. Burnished peds and sorting of rounded or subrounded pebbles or cobbles distinguish these materials from unsorted colluvial deposits.

Slow refill (in tables). The slow filling of ponds, resulting from restricted permeability in the soil.

Soft bedrock. Bedrock that can be excavated with trenching machines, backhoes, small rippers, and other equipment commonly used in construction.

Soil. A natural, three-dimensional body at the earth's surface. It is capable of supporting plants and has properties resulting from the integrated effect of climate and living matter acting on earthy parent material, as conditioned by relief and by the passage of time.

Soil separates. Mineral particles less than 2 millimeters in equivalent diameter and ranging between specified size limits. The names and sizes, in millimeters, of separates recognized in the United States are as follows:

Very coarse sand	2.0 to 1.0
Coarse sand	1.0 to 0.5
Medium sand	0.5 to 0.25
Fine sand	0.25 to 0.10
Very fine sand	0.10 to 0.05
Silt	0.05 to 0.002
Clay	less than 0.002

Solum. The upper part of a soil profile, above the C horizon, in which the processes of soil formation are active. The solum in soil consists of the A, E, and B horizons. Generally, the characteristics of the material in these horizons are unlike those of the material below the solum. The living roots and plant and animal activities are largely confined to the solum.

Stone line. In a vertical cross section, a line formed by scattered fragments or a discrete layer of angular and subangular rock fragments (commonly a gravel- or cobble-sized lag concentration) that formerly was draped across a topographic surface and was later buried by additional sediments. A stone line generally caps material that was subject to weathering, soil formation, and erosion before burial. Many stone lines seem to be buried erosion pavements, originally formed by sheet and rill erosion across the land surface.

Stones. Rock fragments 10 to 24 inches (25 to 60 centimeters) in diameter if rounded or 15 to 24 inches (38 to 60 centimeters) in length if flat.

Stony. Refers to a soil containing stones in numbers that interfere with or prevent tillage.

Stream terrace. One of a series of platforms in a stream valley, flanking and more or less parallel to the stream channel, originally formed near the level of the stream; represents the remnants of an abandoned flood plain, stream bed, or valley floor produced during a former state of fluvial erosion or deposition.

Structure, soil. The arrangement of primary soil particles into compound particles or aggregates. The principal forms of soil structure are—*platy* (laminated), *prismatic* (vertical axis of aggregates longer than horizontal), *columnar* (prisms with rounded tops), *blocky* (angular or subangular), and *granular*. *Structureless* soils are either *single grained* (each grain by itself, as in dune sand) or *massive* (the particles adhering without any regular cleavage, as in many hardpans).

Subsoil. Technically, the B horizon; roughly, the part of the solum below plow depth.

Subsoiling. Tilling a soil below normal plow depth, ordinarily to shatter a hardpan or claypan.

Substratum. The part of the soil below the solum.

Subsurface layer. Any surface soil horizon (A, E, AB, or EB) below the surface layer.

Summit. The topographically highest position of a hillslope. It has a nearly level (planar or only slightly convex) surface.

Surface layer. The soil ordinarily moved in tillage, or its equivalent in uncultivated soil, ranging in depth from 4 to 10 inches (10 to 25 centimeters). Frequently designated as the "plow layer," or the "Ap horizon."

Surface soil. The A, E, AB, and EB horizons, considered collectively. It includes all subdivisions of these horizons.

Talf. A geomorphic component of flat plains (e.g., lake plain, low coastal plain, and low gradient till plain) consisting of an essentially flat (0 or 1 percent slopes) and broad area dominated by closed depressions and a nonintegrated or poorly integrated drainage system. Precipitation tends to pond locally, and lateral transport is slow both above and below ground, favoring the accumulation of organic matter and the retention of fine-earth sediments. Better drained soils are commonly adjacent to drainageways.

Talus. Rock fragments of any size or shape (commonly coarse and angular) derived from and lying at the base of a cliff or very steep rock slope. The accumulated mass of such loose broken rock formed chiefly by falling, rolling, or sliding.

Taxadjuncts. Soils that cannot be classified in a series recognized in the classification system. Such soils are named for a series they strongly resemble and are designated as taxadjuncts to that series because they differ in ways too small to be of consequence in interpreting their use and behavior. Soils are recognized as taxadjuncts only when one or more of their characteristics are slightly outside the range defined for the family of the series for which the soils are named.

Terminal moraine. An end moraine that marks the farthest advance of a glacier. It typically has the form of a massive arcuate or concentric ridge, or complex of ridges, and is underlain by till and other types of drift.

Terrace (conservation). An embankment, or ridge, constructed across sloping soils on the contour or at a slight angle to the contour. The terrace intercepts surface runoff so that water soaks into the soil or flows slowly to a prepared outlet. A terrace in a field generally is built so that the field can be farmed. A terrace intended mainly for drainage has a deep channel that is maintained in permanent sod.

Terrace (geomorphology). A steplike surface, bordering a valley floor or shoreline, that represents the former position of a flood plain, lake, or seashore. The term is usually applied both to the relatively flat summit surface (tread) that was cut or built by stream or wave action and to the steeper descending slope (scarp or riser) that has graded to a lower base level of erosion.

Texture, soil. The relative proportions of sand, silt, and clay particles in a mass of soil. The basic textural classes, in order of increasing proportion of fine particles, are *sand, loamy sand, sandy loam, loam, silt loam, silt, sandy clay loam, clay loam, silty clay loam, sandy clay, silty clay,* and *clay*. The sand, loamy sand, and sandy loam classes may be further divided by specifying "coarse," "fine," or "very fine."

Thin layer (in tables). Otherwise suitable soil material that is too thin for the specified use.

Till. Dominantly unsorted and nonstratified drift, generally unconsolidated and deposited directly by a glacier without subsequent reworking by meltwater, and consisting of a heterogeneous mixture of clay, silt, sand, gravel, stones, and boulders; rock fragments of various lithologies are embedded within a finer matrix that can range from clay to sandy loam.

Till plain. An extensive area of level to gently undulating soils underlain predominantly by till and bounded at the distal end by subordinate recessional or end moraines.

Tilth, soil. The physical condition of the soil as related to tillage, seedbed preparation, seedling emergence, and root penetration.

Toeslope. The gently inclined surface at the base of a hillslope. Toeslopes in profile are commonly gentle and linear and are constructional surfaces forming the lower part of a hillslope continuum that grades to valley or closed-depression floors.

Topsoil. The upper part of the soil, which is the most favorable material for plant growth. It is ordinarily rich in organic matter and is used to topdress roadbanks, lawns, and land affected by mining.

Tread. The flat to gently sloping, topmost, laterally extensive slope of terraces, flood-plain steps, or other stepped landforms; commonly a recurring part of a series of natural steplike landforms, such as successive stream terraces.

Tuff. A generic term for any consolidated or cemented deposit that is 50 percent or more volcanic ash.

Udic soil moisture regime. Common to soils of humid climates which have well-distributed rainfall, or which have enough rain in summer so that the amount of stored moisture plus rainfall is approximately equal to, or exceeds, the amount of evapotranspiration. Water moves down through the soil at some time in most years.

Upland. An informal, general term for the higher ground of a region, in contrast with a low-lying adjacent area, such as a valley or plain, or for land at a higher elevation than the flood plain or low stream terrace; land above the footslope zone of the hillslope continuum.

Valley fill. The unconsolidated sediment deposited by any agent (water, wind, ice, or mass wasting) so as to fill or partly fill a valley.

Valley train. A long, narrow body of outwash confined within a valley beyond a glacier. It may emerge from the valley and join an outwash plain.

Varve. A sedimentary layer or a lamina or sequence of laminae deposited in a body of still water within a year. Specifically, a thin pair of graded glaciolacustrine layers seasonally deposited, usually by meltwater streams, in a glacial lake or other body of still water in front of a glacier.

Weathering. All physical disintegration, chemical decomposition, and biologically induced changes in rocks or other deposits at or near the earth's surface by atmospheric or biologic agents or by circulating surface waters but involving essentially no transport of the altered material.

Well graded. Refers to soil material consisting of coarse grained particles that are well distributed over a wide range in size or diameter. Such soil normally can be easily increased in density and bearing properties by compaction. Contrasts with poorly graded soil.

Wilting point (or permanent wilting point). The moisture content of soil, on an ovendry basis, at which a plant (specifically a sunflower) wilts so much that it does not recover when placed in a humid, dark chamber.

Tables

Table 1.--Soil Legend

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
290457		
Barbour loam	Barbour	85
	Basher	5
	Raypol	5
	Fluvaquents	3
	Udifluvents	2
290461		
Bath channery silt loam, 8 to 15 percent slopes	Bath	80
	Lackawanna	5
	Lordstown	5
	Mardin	5
	Unnamed soils	5
290465		
Cadosia extremely channery loam, 15 to 35 percent slopes, very bouldery	Cadosia	75
	Arnot	5
	Bath	5
	Lackawanna	5
	Lordstown	5
	Oquaga	5
290466		
Cadosia extremely channery loam, 35 to 70 percent slopes, very bouldery	Cadosia	75
	Arnot	5
	Bath	5
	Lackawanna	5
	Lordstown	5
	Oquaga	5
290468		
Chenango gravelly silt loam, 3 to 8 percent slopes	Chenango	85
	Deposit	5
	Raypol	5
	Riverhead	5
290483		
Fluvaquents-Udifluvents complex, frequently flooded	Fluvaquents	45
	Udifluvents	35
	Barbour	5
	Basher	5
	Chenango	5
	Tunkhannock	5
290484		
Halcott, Mongaup, and Vly soils, 2 to 15 percent slopes, very rocky	Halcott	25
	Mongaup	25
	Vly	25
	Unnamed soils	15
	Middlebrook	5
	Rock outcrop	5
290485		
Halcott, Mongaup, and Vly soils, 15 to 35 percent slopes, very rocky	Halcott	25
	Mongaup	25
	Vly	25
	Unnamed soils	10
	Elka	5
	Rockrift	5
	Rock outcrop	5

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
290487		
Lackawanna flaggy silt loam, 3 to 8 percent slopes	Lackawanna	80
	Bath	5
	Oquaga	5
	Unnamed soils	5
	Wellsboro	5
290488		
Lackawanna flaggy silt loam, 8 to 15 percent slopes	Lackawanna	80
	Bath	5
	Oquaga	5
	Unnamed soils	5
	Wellsboro	5
290489		
Lackawanna flaggy silt loam, 15 to 25 percent slopes	Lackawanna	80
	Bath	5
	Oquaga	5
	Unnamed soils	5
	Wellsboro	5
290490		
Lackawanna flaggy silt loam, 25 to 40 percent slopes	Lackawanna	80
	Bath	5
	Oquaga	5
	Unnamed soils	5
	Wellsboro	5
290491		
Lackawanna and Bath soils, 3 to 15 percent slopes, very stony	Lackawanna	50
	Bath	30
	Lordstown	5
	Mardin	5
	Oquaga	5
	Wellsboro	5
290492		
Lackawanna and Bath soils, 15 to 35 percent slopes, very stony	Lackawanna	50
	Bath	30
	Lordstown	5
	Mardin	5
	Oquaga	5
	Wellsboro	5
290493		
Lackawanna and Bath soils, 35 to 55 percent slopes, very stony	Lackawanna	50
	Bath	30
	Cadosia	5
	Lordstown	5
	Valois	5
	Oquaga	5
290506		
Lordstown channery silt loam, 2 to 8 percent slopes	Lordstown	80
	Unnamed soils	10
	Arnot	5
	Oquaga	5
290507		
Lordstown channery silt loam, 8 to 15 percent slopes	Lordstown	80
	Unnamed soils	10
	Arnot	5
	Oquaga	5

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
290509		
Lordstown channery silt loam, 25 to 40 percent slopes	Lordstown	80
	Unnamed soils	10
	Arnot	5
	Oquaga	5
290510		
Maplecrest gravelly silt loam, 3 to 8 percent slopes	Maplecrest	80
	Lackawanna	5
	Riverhead	5
	Tunkhannock	5
	Unnamed soils	5
290511		
Maplecrest gravelly silt loam, 8 to 15 percent slopes	Maplecrest	80
	Lackawanna	5
	Riverhead	5
	Tunkhannock	5
	Unnamed soils	5
290512		
Maplecrest gravelly silt loam, 15 to 25 percent slopes	Maplecrest	80
	Lackawanna	5
	Riverhead	5
	Tunkhannock	5
	Unnamed soils	5
290514		
Mardin channery silt loam, 3 to 8 percent slopes	Mardin	80
	Unnamed soils	10
	Bath	5
	Volusia	5
290515		
Mardin channery silt loam, 8 to 15 percent slopes	Mardin	80
	Unnamed soils	10
	Bath	5
	Volusia	5
290519		
Mongaup channery loam, 2 to 8 percent slopes	Mongaup	80
	Gretor	5
	Halcott	5
	Middlebrook	5
	Vly	5
290522		
Morris flaggy silt loam, 0 to 3 percent slopes	Morris	85
	Norchip	5
	Wellsboro	5
	Fluvaquents	3
	Udifluvents	2
290523		
Morris flaggy silt loam, 3 to 8 percent slopes	Morris	85
	Norchip	5
	Wellsboro	5
	Fluvaquents	3
	Udifluvents	2

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
290525		
Morris and Volusia soils, 2 to 10 percent slopes, very stony	Morris	50
	Volusia	30
	Gretor	5
	Mardin	5
	Norchip	5
	Wellsboro	5
290526		
Norchip silt loam	Norchip	80
	Bucksport	5
	Onteora	5
	Ontusia	5
	Wonsqueak	5
290535		
Oquaga channery silt loam, 2 to 8 percent slopes	Oquaga	80
	Unnamed soils	10
	Arnot	5
	Lackawnna	5
290536		
Oquaga channery silt loam, 8 to 15 percent slopes	Oquaga	80
	Unnamed soils	10
	Arnot	5
	Lackawanna	5
290539		
Oquaga channery silt loam, 35 to 50 percent slopes	Oquaga	80
	Arnot	5
	Cadosia	5
	Maplecrest	5
	Unnamed soils	5
290540		
Oquaga, Lordstown, and Arnot soils, 2 to 15 percent slopes, very rocky	Oquaga	25
	Lordstown	25
	Arnot	25
	Unnamed soils	20
	Rock outcrop	5
290541		
Oquaga, Lordstown, and Arnot soils, 15 to 35 percent slopes, very rocky	Oquaga	25
	Lordstown	25
	Arnot	25
	Unnamed soils	15
	Cadosia	5
	Rock outcrop	5
290542		
Oquaga, Lordstown, and Arnot soils, 35 to 70 percent slopes, very rocky	Oquaga	25
	Lordstown	25
	Arnot	25
	Unnamed soils	15
	Cadosia	5
	Rock outcrop	5
290544		
Pits, gravel	Pits, gravel	85
	Chenango	5
	Deposit	5
	Tunkhannock	5

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
290546		
Raypol silt loam	Raypol	80
	Basher	5
	Philo	5
	Unnamed soils	5
	Saprists	3
	Aquents	2
290547		
Red Hook gravelly silt loam	Red Hook	80
	Chenango	5
	Deposit	5
	Raypol	5
	Fluvaquents	3
	Udifluvents	2
290548		
Riverhead loam, 0 to 3 percent slopes	Riverhead	85
	Chenango	5
	Deposit	5
	Unadilla	5
290549		
Riverhead loam, 3 to 8 percent slopes	Riverhead	85
	Chenango	5
	Deposit	5
	Unadilla	5
290555		
Torull-Gretor complex, 0 to 6 percent slopes	Torull	40
	Gretor	40
	Halcott	5
	Mongaup	5
	Unnamed soils	5
	Vly	5
290556		
Tunkhannock gravelly loam, 0 to 3 percent slopes	Tunkhannock	85
	Deposit	5
	Red Hook	5
	Unnamed soils	5
290562		
Tunkhannock and Chenango soils, fan, 3 to 8 percent slopes	Tunkhannock	50
	Chenango	30
	Barbour	4
	Deposit	4
	Red Hook	4
	Wenonah	4
	Udifluvents	2
	Fluvaquents	2
290563		
Udorthents, graded	Udorthents	80
	Unnamed soils	10
	Rock outcrop	5
	Urban land	5
290565		
Unadilla silt loam	Unadilla	80
	Barbour	5
	Chenango	5
	Riverhead	5
	Tunkhannock	5

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
290567		
Valois very fine sandy loam, 3 to 8 percent slopes	Valois	80
	Bath	5
	Chenango	5
	Riverhead	5
	Tunkhannock	5
290568		
Valois very fine sandy loam, 8 to 15 percent slopes	Valois	80
	Bath	5
	Chenango	5
	Riverhead	5
	Tunkhannock	5
290569		
Valois very fine sandy loam, 15 to 25 percent slopes	Valois	80
	Bath	5
	Chenango	5
	Riverhead	5
	Tunkhannock	5
290570		
Valois very fine sandy loam, 25 to 60 percent slopes	Valois	80
	Bath	5
	Chenango	5
	Riverhead	5
	Tunkhannock	5
290576		
Volusia channery silt loam, 3 to 8 percent slopes	Volusia	85
	Mardin	5
	Morris	5
	Norchip	5
290578		
Wellsboro channery silt loam, 3 to 8 percent slopes	Wellsboro	80
	Lackawanna	5
	Mardin	5
	Morris	5
	Unnamed soils	5
290579		
Wellsboro channery silt loam, 8 to 15 percent slopes	Wellsboro	80
	Lackawanna	5
	Mardin	5
	Morris	5
	Unnamed soils	5
290581		
Wellsboro and Mardin soils, 2 to 15 percent slopes, very stony	Wellsboro	50
	Mardin	30
	Bath	5
	Lackawanna	5
	Morris	5
	Volusia	5
290582		
Wenonah silt loam	Wenonah	85
	Philo	5
	Raypol	5
	Fluvaquents	3
	Udifluvents	2

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
290592		
Carlisle and Palms soils	Carlisle	45
	Palms	40
	Norchip	5
	Red Hook	5
	Unnamed soils	5
293892		
Alden extremely stony soils	Alden, extremely stony	75
	Canandaigua	5
	Erie	5
	Lyons	5
	Palms	5
	Wayland	5
293895		
Arnot-Lordstown complex, sloping	Arnot	50
	Lordstown	35
	Erie	3
	Mardin	3
	Rock outcrop	3
	Swartswood	3
	Wurtsboro	3
293896		
Arnot-Lordstown complex, moderately steep	Arnot	60
	Lordstown	30
	Erie	2
	Mardin	2
	Rock outcrop	2
	Swartswood	2
	Wurtsboro	2
293897		
Arnot-Lordstown complex, very steep	Arnot	65
	Lordstown	25
	Erie	2
	Mardin	2
	Rock outcrop	2
	Swartswood	2
	Wurtsboro	2
293921		
Erie extremely stony soils, gently sloping	Erie, extremely stony	80
	Alden	5
	Bath	5
	Mardin	5
	Wurtsboro	5
293929		
Hoosic gravelly sandy loam, 3 to 8 percent slopes	Hoosic	80
	Castile	5
	Chenango	5
	Fredon	5
	Oakville	5
293930		
Hoosic gravelly sandy loam, 8 to 15 percent slopes	Hoosic	80
	Castile	5
	Chenango	5
	Fredon	5
	Oakville	5

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
293931		
Hoosic gravelly sandy loam, 15 to 25 percent slopes	Hoosic	80
	Castile	5
	Chenango	5
	Fredon	5
	Oakville	5
293932		
Lordstown channery silt loam, 3 to 8 percent slopes	Lordstown	80
	Arnot	5
	Bath	5
	Swartswood	5
	Wurtsboro	5
293939		
Middlebury silt loam	Middlebury	80
	Chenango	5
	Fredon	5
	Tioga	5
	Wayland	5
293943		
Otisville gravelly sandy loam, 0 to 8 percent slopes	Otisville	80
	Chenango	5
	Fredon	5
	Hoosic	5
	Oakville	5
293944		
Otisville gravelly sandy loam, 8 to 15 percent slopes	Otisville	80
	Chenango	5
	Fredon	5
	Hoosic	5
	Oakville	5
293945		
Otisville gravelly sandy loam, 15 to 25 percent slopes	Otisville	80
	Barbour	5
	Chenango	5
	Hoosic	5
	Oakville	5
293946		
Otisville and Hoosic soils, steep	Otisville	40
	Hoosic	40
	Barbour	5
	Chenango	5
	Oakville	5
	Suncook	5
293949		
Pits, gravel	Pits, gravel	75
	Chenango	5
	Hoosic	5
	Riverhead	5
	Scarboro	5
	Udorthents	5
293961		
Rock outcrop-Arnot complex, sloping	Rock outcrop	50
	Arnot	35
	Lordstown	5
	Swartswood	5
	Wurtsboro	5

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
293962		
Rock outcrop-Arnot complex, moderately steep	Rock outcrop	50
	Arnot	40
	Lordstown	5
	Swartswood	3
	Wurtsboro	2
293963		
Rock outcrop-Arnot complex, very steep	Rock outcrop	60
	Arnot	30
	Lordstown	5
	Swartswood	3
	Wurtsboro	2
293975		
Suncook sandy loam	Suncook	80
	Allard	5
	Barbour	5
	Middlebury	5
	Tioga	5
293979		
Swartswood and Mardin very stony soils, sloping	Swartswood, very stony	40
	Mardin	40
	Bath	5
	Lordstown	5
	Erie	5
	Wurtsboro	5
293980		
Swartswood and Mardin very stony soils, moderately steep	Swartswood, very stony	40
	Mardin	40
	Wurtsboro	5
	Lordstown	5
	Bath	5
	Erie	5
293981		
Swartswood and Mardin very stony soils, very steep	Swartswood, very stony	40
	Mardin	35
	Bath	5
	Erie	5
	Lordstown	5
	Rock outcrop	5
	Wurtsboro	5
293983		
Udifluvents-Fluvaquents complex, frequently flooded	Udifluvents, frequently flooded	45
	Fluvaquents	30
	Canandaigua	5
	Humaquepts	5
	Palms	5
	Wallkill	5
	Wayland	5

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
295043		
Alden silt loam	Alden	80
	Scriba	5
	Morris	5
	Palms	5
	Neversink	5
295044		
Arnot-Lordstown complex, 0 to 15 percent slopes, very rocky	Arnot	40
	Lordstown	40
	Rock outcrop	5
	Swartswood	4
	Wurtsboro	4
	Tuller	4
	Valois	3
295045		
Arnot-Lordstown complex, 15 to 35 percent slopes, very rocky	Arnot	40
	Lordstown	40
	Rock outcrop	5
	Swartswood	4
	Wurtsboro	4
	Unnamed soils	4
	Valois	3
295046		
Arnot-Oquaga complex, 0 to 15 percent slopes, very rocky	Arnot	45
	Oquaga	40
	Rock outcrop	5
	Tuller	4
	Cheshire	2
	Lackawanna	2
	Wellsboro	2
295047		
Arnot-Oquaga complex, 15 to 35 percent slopes, very rocky	Arnot	50
	Oquaga	35
	Rock outcrop	5
	Unnamed soils	4
	Cheshire	3
	Lackawanna	3
295048		
Arnot-Rock outcrop complex, 0 to 15 percent slopes	Arnot	60
	Rock outcrop	25
	Lackawanna	3
	Cheshire	3
	Wurtsboro	3
	Valois	2
	Wellsboro	2
	Tuller	2
295049		
Arnot-Rock outcrop complex, 15 to 35 percent slopes	Arnot	55
	Rock outcrop	30
	Lackawanna	3
	Valois	3
	Cheshire	3
	Wellsboro	3
	Oquaga	3

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
295050		
Arnot-Rock outcrop complex, 35 to 70 percent slopes	Arnot	45
	Rock outcrop	40
	Lordstown	5
	Oquaga	5
	Unnamed soils	5
295051		
Barbour loam	Barbour	85
	Suncook	5
	Bash	3
	Pope	2
	Philo	2
	Udifluvents	2
	Wayland	1
295052		
Bash silt loam	Bash	85
	Suncook	4
	Barbour	4
	Pope	2
	Philo	2
	Udifluvents	2
	Wayland	1
295053		
Carlisle muck	Carlisle	85
	Palms	5
	Wayland	5
	Neversink	2
	Alden	2
	Red Hook	1
295054		
Carlisle, Palms, and Alden soils, ponded	Carlisle, ponded	25
	Palms, ponded	25
	Alden, ponded	25
	Unnamed soils	10
	Wayland	5
	Fluvaquents	5
	Udifluvents	5
295055		
Chenango gravelly loam, 0 to 3 percent slopes	Chenango	85
	Valois	5
	Pompton	5
	Red Hook	3
	Otisville	2
295056		
Chenango gravelly loam, 3 to 8 percent slopes	Chenango	85
	Valois	5
	Pompton	5
	Red Hook	3
	Otisville	2
295057		
Chenango gravelly loam, 8 to 15 percent slopes	Chenango	85
	Valois	5
	Pompton	5
	Otisville	5

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
295059		
Cheshire channery loam, 3 to 8 percent slopes, stony	Cheshire, stony	85
	Lackawanna	3
	Wellsboro	3
	Swartswood	2
	Wurtsboro	2
	Oquaga	2
	Lordstown	2
	Unnamed soils	1
295060		
Cheshire channery loam, 8 to 15 percent slopes, stony	Cheshire, stony	85
	Lackawanna	3
	Wellsboro	3
	Swartswood	2
	Wurtsboro	2
	Oquaga	2
	Lordstown	2
	Unnamed soils	1
295061		
Cheshire channery loam, 15 to 25 percent slopes, stony	Cheshire, stony	85
	Lackawanna	5
	Swartswood	5
	Oquaga	2
	Lordstown	2
	Unnamed soils	1
295062		
Cheshire channery loam, 25 to 35 percent slopes, stony	Cheshire, stony	85
	Lackawanna	5
	Swartswood	5
	Oquaga	2
	Lordstown	2
	Unnamed soils	1
295063		
Cheshire channery loam, 35 to 60 percent slopes, stony	Cheshire, stony	85
	Lackawanna	5
	Swartswood	5
	Oquaga	2
	Lordstown	2
	Unnamed soils	1
295069		
Fluvaquents-Udifluvents complex, frequently flooded	Fluvaquents	45
	Udifluvents, frequently flooded	40
	Suncook	4
	Pope	3
	Barbour	2
	Bash	2
	Philo	2
	Wayland	2
295074		
Lackawanna channery loam, 3 to 8 percent slopes	Lackawanna	80
	Oquaga	5
	Cheshire	5
	Wellsboro	5
	Morris	2
	Swartswood	2
	Wurtsboro	1

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
295075		
Lackawanna channery loam, 8 to 15 percent slopes	Lackawanna	85
	Oquaga	4
	Cheshire	4
	Wellsboro	3
	Swartswood	2
	Morris	1
	Wurtsboro	1
295076		
Lackawanna channery loam, 15 to 25 percent slopes	Lackawanna	85
	Oquaga	4
	Cheshire	4
	Wellsboro	3
	Swartswood	2
	Morris	1
	Wurtsboro	1
295082		
Lordstown silt loam, 3 to 8 percent slopes, stony	Lordstown, stony	85
	Arnot	5
	Swartswood	3
	Wurtsboro	2
	Valois	2
	Lackawanna	1
	Wellsboro	1
	Unnamed soils	1
295083		
Lordstown-Arnot complex, 8 to 15 percent slopes, very stony	Lordstown, very stony	55
	Arnot, very stony	25
	Swartswood	5
	Wurtsboro	5
	Valois	3
	Unnamed soils	3
	Lackawanna	2
	Wellsboro	2
295092		
Morris loam, 0 to 3 percent slopes	Morris	85
	Wellsboro	5
	Alden	5
	Scriba	2
	Neversink	1
	Wurtsboro	1
	Unnamed soils	1
295093		
Morris loam, 3 to 8 percent slopes	Morris	85
	Wellsboro	5
	Alden	5
	Scriba	2
	Neversink	1
	Wurtsboro	1
	Unnamed soils	1

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
295094		
Morris loam, 8 to 15 percent slopes	Morris	85
	Wellsboro	5
	Scriba	5
	Wurtsboro	2
	Unnamed soils	2
	Lackawanna	1
295095		
Neversink loam	Neversink	80
	Scriba	5
	Alden	5
	Unnamed soils	4
	Wallington	3
	Wurtsboro	1
	Wellsboro	1
	Morris	1
295101		
Oquaga very channery silt loam, 3 to 8 percent slopes	Oquaga	85
	Arnot	5
	Lackawanna	3
	Wellsboro	3
	Cheshire	3
	Tuller	1
295102		
Oquaga-Arnot complex, 8 to 15 percent slopes	Oquaga	50
	Arnot	35
	Lackawanna	5
	Wellsboro	5
	Cheshire	4
	Unnamed soils	1
295103		
Oquaga-Arnot complex, 15 to 25 percent slopes	Oquaga	50
	Arnot	35
	Lackawanna	5
	Cheshire	5
	Wellsboro	3
	Unnamed soils	2
295105		
Otisville gravelly loamy coarse sand, 0 to 3 percent slopes	Otisville	85
	Pompton	5
	Red Hook	5
	Udifluvents	3
	Fluvaquents	2
295106		
Otisville gravelly loamy coarse sand, 3 to 8 percent slopes	Otisville	85
	Pompton	5
	Red Hook	5
	Udifluvents	3
	Fluvaquents	2
295107		
Otisville gravelly loamy coarse sand, 8 to 15 percent slopes	Otisville	85
	Pompton	5
	Red Hook	5
	Unnamed soils	5

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
295109		
Palms muck	Palms	85
	Carlisle	5
	Alden	5
	Wayland	3
	Neversink	2
295110		
Philo silt loam	Philo	85
	Suncook	5
	Pope	5
	Unnamed soils	4
	Wayland	1
295111		
Pits, gravel	Pits, gravel	80
	Otisville	8
	Tunkhannock	5
	Udorthents	5
	Unnamed soils	2
295112		
Pits, quarry	Pits, quarry	80
	Arnot	5
	Hawksnest	5
	Rock outcrop	5
	Udorthents	5
295113		
Pompton gravelly fine sandy loam, 0 to 3 percent slopes	Pompton	85
	Red Hook	5
	Raynham	2
	Philo	2
	Chenango	2
	Riverhead	2
	Bash	1
	Tunkhannock	1
295114		
Pompton gravelly fine sandy loam, 3 to 8 percent slopes	Pompton	85
	Red Hook	5
	Raynham	2
	Philo	2
	Chenango	2
	Riverhead	2
	Bash	1
	Tunkhannock	1
295115		
Pope silt loam, occasionally flooded	Pope, occasionally flooded	85
	Suncook	5
	Philo	5
	Barbour	2
	Unnamed soils	2
	Wayland	1

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
295116		
Pope very fine sandy loam, rarely flooded	Pope, rarely flooded	85
	Tunkhannock	5
	Riverhead	5
	Scio	3
	Raynham	2
295117		
Raynham silt loam	Raynham, poorly drained	50
	Raynham, somewhat poorly drained	30
	Scio	5
	Wallington	4
	Unnamed soils	2
	Philo	2
	Fluvaquents	2
	Chenango	2
	Riverhead	2
	Bash	1
295118		
Red Hook sandy loam	Red Hook	80
	Scio	5
	Wallington	4
	Philo	3
	Chenango	3
	Fluvaquents	2
	Riverhead	2
	Bash	1
295119		
Riverhead sandy loam, 0 to 3 percent slopes	Riverhead	85
	Pompton	5
	Chenango	3
	Valois	3
	Tunkhannock	2
	Unadilla	1
	Suncook	1
295120		
Riverhead sandy loam, 3 to 8 percent slopes	Riverhead	85
	Pompton	5
	Chenango	3
	Valois	3
	Tunkhannock	2
	Unadilla	1
	Suncook	1
295121		
Riverhead sandy loam, 8 to 15 percent slopes	Riverhead	85
	Otisville	5
	Chenango	3
	Valois	3
	Tunkhannock	2
	Unadilla	2

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
295122		
Scio silt loam, 2 to 6 percent slopes	Scio	80
	Red Hook	5
	Alden	5
	Raynham	5
	Wallington	5
295123		
Scriba loam, 0 to 3 percent slopes, stony	Scriba, stony	80
	Morris	5
	Neversink	5
	Wallington	5
	Wurtsboro	5
295124		
Scriba loam, 3 to 8 percent slopes, stony	Scriba, stony	75
	Morris	5
	Neversink	5
	Wallington	5
	Wellsboro	5
	Wurtsboro	5
295125		
Scriba and Morris loams, gently sloping, extremely stony	Scriba, extremely stony	40
	Morris, extremely stony	40
	Neversink	5
	Wurtsboro	5
	Unnamed soils	4
	Alden	3
	Wellsboro	3
295126		
Suncook fine sandy loam	Suncook	80
	Philo	5
	Bash	5
	Pope	3
	Barbour	3
	Tunkhannock	3
	Fluvaquents	1
295129		
Swartswood gravelly loam, 3 to 8 percent slopes, stony	Swartswood	85
	Wurtsboro	5
	Cheshire	5
	Scriba	2
	Valois	1
	Lackawanna	1
	Wellsboro	1
295130		
Swartswood gravelly loam, 8 to 15 percent slopes, stony	Swartswood	85
	Wurtsboro	5
	Cheshire	5
	Scriba	2
	Valois	1
	Lackawanna	1
	Wellsboro	1

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
295131		
Swartswood gravelly loam, 15 to 25 percent slopes, stony	Swartswood	85
	Wurtsboro	5
	Cheshire	5
	Valois	2
	Lordstown	1
	Lackawanna	1
	Wellsboro	1
295132		
Swartswood and Lackawanna soils, 25 to 35 percent slopes, stony	Swartswood, stony	40
	Lackawanna, stony	40
	Wellsboro	5
	Wurtsboro	5
	Valois	3
	Cheshire	3
	Lordstown	2
	Oquaga	2
295133		
Swartswood and Lackawanna soils, steep, very stony	Swartswood, very stony	40
	Lackawanna, very stony	40
	Wellsboro	5
	Wurtsboro	5
	Valois	3
	Cheshire	3
	Lordstown	2
	Oquaga	2
295134		
Swartswood and Lackawanna soils, very steep, very stony	Swartswood, very stony	40
	Lackawanna, very stony	40
	Oquaga	5
	Unnamed soils	5
	Cheshire	4
	Arnot	3
	Lordstown	2
	Valois	1
295136		
Tuller-Rock outcrop complex, 1 to 5 percent slopes	Tuller, somewhat poorly drained	40
	Tuller, poorly drained	20
	Rock outcrop	20
	Arnot	4
	Lordstown	3
	Unnamed soils	3
	Alden	2
	Neversink	2
	Scriba	2
	Morris	2
	Oquaga	2

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
295137		
Tunkhannock gravelly loam, 0 to 3 percent slopes	Tunkhannock	85
	Unnamed soils	5
	Barbour	5
	Suncook	5
295138		
Tunkhannock gravelly loam, 3 to 8 percent slopes	Tunkhannock	85
	Unnamed soils	5
	Barbour	5
	Suncook	5
295139		
Tunkhannock gravelly loam, 8 to 15 percent slopes	Tunkhannock	85
	Unnamed soils	10
	Cheshire	5
295140		
Tunkhannock gravelly loam, 15 to 25 percent slopes	Tunkhannock	85
	Otisville	5
	Cheshire	5
	Unnamed soils	5
295141		
Tunkhannock and Otisville soils, steep	Tunkhannock	45
	Otisville	40
	Cheshire	5
	Valois	5
	Unnamed soils	5
295142		
Tunkhannock and Otisville soils, very steep	Tunkhannock	45
	Otisville	40
	Cheshire	5
	Valois	5
	Unnamed soils	5
295143		
Udorthents, smoothed	Udorthents	75
	Alden	5
	Chenango	5
	Lackawanna	5
	Onteora	5
	Pits, gravel	5
295144		
Unadilla silt loam, 0 to 2 percent slopes	Unadilla	85
	Scio	5
	Raynham	3
	Pope	2
	Barbour	2
	Unnamed soils	2
	Suncook	1
295145		
Unadilla silt loam, 2 to 6 percent slopes	Unadilla	85
	Scio	5
	Raynham	3
	Pope	2
	Barbour	2
	Unnamed soils	2
	Suncook	1

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
295146		
Valois gravelly sandy loam, 3 to 8 percent slopes	Valois	80
	Chenango	5
	Riverhead	5
	Wurtsboro	3
	Unnamed soils	3
	Swartswood	2
	Lordstown	2
295147		
Valois gravelly sandy loam, 8 to 15 percent slopes	Valois	80
	Chenango	5
	Riverhead	5
	Wurtsboro	3
	Unnamed soils	3
	Swartswood	2
	Lordstown	2
295148		
Valois gravelly sandy loam, 15 to 25 percent slopes	Valois	80
	Chenango	5
	Riverhead	5
	Swartswood	3
	Unnamed soils	3
	Wurtsboro	2
	Lordstown	2
295149		
Valois gravelly sandy loam, 25 to 35 percent slopes	Valois	80
	Swartswood	5
	Chenango	5
	Riverhead	5
	Unnamed soils	3
	Lordstown	2
295150		
Valois gravelly sandy loam, 35 to 50 percent slopes	Valois	80
	Swartswood	5
	Chenango	5
	Riverhead	5
	Unnamed soils	3
	Lordstown	2
295153		
Wayland silt loam	Wayland	85
	Unnamed soils	5
	Fluvaquents	4
	Bash	3
	Philo	2
	Udifluvents	1
295154		
Wellsboro gravelly loam, 0 to 3 percent slopes	Wellsboro	85
	Morris	4
	Lackawanna	3
	Swartswood	2
	Wurtsboro	2
	Scriba	2
	Unnamed soils	2

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
295155		
Wellsboro gravelly loam, 3 to 8 percent slopes	Wellsboro	85
	Morris	4
	Lackawanna	3
	Swartswood	2
	Wurtsboro	2
	Scriba	2
	Unnamed soils	2
295156		
Wellsboro gravelly loam, 8 to 15 percent slopes	Wellsboro	85
	Lackawanna	4
	Morris	2
	Swartswood	2
	Wurtsboro	2
	Oquaga	2
	Unnamed soils	2
	Scriba	1
295157		
Wellsboro and Wurtsboro soils, strongly sloping, extremely stony	Wellsboro, extremely stony	40
	Wurtsboro, extremely stony	40
	Swartswood	5
	Scriba	5
	Lackawanna	3
	Morris	3
	Lordstown	2
	Oquaga	2
295162		
Wurtsboro loam, 0 to 3 percent slopes, stony	Wurtsboro, stony	85
	Scriba	5
	Swartswood	5
	Lackawanna	2
	Morris	2
	Unnamed soils	1
295163		
Wurtsboro loam, 3 to 8 percent slopes, stony	Wurtsboro, stony	85
	Scriba	5
	Swartswood	5
	Lackawanna	2
	Valois	1
	Morris	1
	Unnamed soils	1
295164		
Wurtsboro loam, 8 to 15 percent slopes, stony	Wurtsboro, stony	85
	Scriba	5
	Swartswood	5
	Lackawanna	2
	Valois	1
	Morris	1
	Unnamed soils	1
296588		
Arnot channery loam, very rocky, 3 to 8 percent slopes	Arnot	90
	Oquaga	10
296589		
Arnot channery loam, very rocky, 8 to 15 percent slopes	Arnot	90
	Oquaga	10

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
296590		
Arnot channery loam, very rocky, 15 to 25 percent slopes	Arnot	95
	Oquaga	5
296591		
Barbour loam	Barbour	70
	Barbour, frequently flooded	18
	Linden	10
	Holly	2
296592		
Basher silt loam	Basher	87
	Basher, frequently flooded	8
	Holly	5
296593		
Fluvents and Fluvaquents, cobbly	Fluvents	70
	Fluvaquents	20
	Barbour	6
	Basher	2
296594		
Holly silt loam	Holly	95
	Basher	5
296595		
Linden fine sandy loam, rarely flooded	Linden	85
	Barbour	10
	Linden, Neutral	3
	Holly	2
296596		
Lordstown channery loam, 3 to 8 percent slopes	Lordstown	94
	Arnot	6
296599		
Lordstown channery loam, 3 to 8 percent slopes	Lordstown	80
	Arnot	15
	Mardin	5
296600		
Lordstown channery loam, 8 to 25 percent slopes	Lordstown	90
	Arnot	8
	Mardin	2
296601		
Medihemists and Medifibrists	Medihemists	60
	Medifibrists	30
	Terric Haplohemists	10
296602		
Mardin channery loam, 3 to 8 percent slopes	Mardin	90
	Chippewa	8
296603		
Mardin channery loam, 8 to 15 percent slopes	Mardin	90
	Chippewa	5

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
296604		
Mardin channery loam, 15 to 25 percent slopes	Mardin	90
296605		
Mardin channery loam, 3 to 8 percent slopes	Mardin	90
	Chippewa	8
296606		
Mardin channery loam, 8 to 25 percent slopes	Mardin	85
	Chippewa	2
296608		
Morris channery loam, 3 to 8 percent slopes	Morris	75
	Norwich	20
	Wellsboro	5
296609		
Morris channery loam, 8 to 15 percent slopes	Morris	80
	Norwich	12
	Wellsboro	8
296610		
Morris channery loam, 0 to 8 percent slopes	Morris	75
	Norwich	20
	Wellsboro	5
296611		
Morris channery loam, 8 to 15 percent slopes	Morris	90
	Norwich	10
296613		
Norwich and Chippewa channery silt loams, 0 to 3 percent slopes	Norwich	63
	Chippewa	33
	Morris	2
	Volusia	2
296614		
Oquaga channery loam, 3 to 8 percent slopes	Oquaga	85
	Arnot	5
	Lackawanna	5
	Lordstown	5
296615		
Oquaga channery loam, 8 to 15 percent slopes	Oquaga	85
	Arnot	5
	Lackawanna	5
	Lordstown	5
296616		
Oquaga channery loam, 15 to 25 percent slopes	Oquaga	85
	Arnot	5
	Lackawanna	5
296617		
Oquaga channery loam, 3 to 8 percent slopes	Oquaga	85
	Arnot	5
	Lackawanna	5
	Lordstown	5
296618		
Oquaga channery loam, 8 to 25 percent slopes	Oquaga	85
	Arnot	5
	Lackawanna	5
	Lordstown	5

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
296619		
Oquaga and Lordstown channery loams, 25 to 70 percent slopes	Oquaga	45
	Lordstown	20
	Lackawanna	10
	Arnot	5
296621		
Quarries	Quarries	100
296622		
Rexford silt loam	Rexford, poorly drained	45
	Rexford, somewhat poorly drained	40
	Braceville	5
296623		
Rock outcrop-Arnot complex, 3 to 25 percent slopes	Rock outcrop	70
	Arnot	20
	Oquaga	6
	Wellsboro	4
296625		
Swartswood channery sandy loam, 8 to 15 percent slopes	Swartswood	90
296628		
Swartswood channery sandy loam, 8 to 25 percent slopes	Swartswood	90
296630		
Volusia channery silt loam, 3 to 8 percent slopes	Volusia	75
	Chippewa	20
	Mardin	5
296632		
Volusia channery silt loam, 0 to 8 percent slopes	Volusia	75
	Chippewa	20
	Mardin	5
296633		
Volusia channery silt loam, 8 to 15 percent slopes	Volusia	90
	Chippewa	10
296634		
Wellsboro channery loam, 3 to 8 percent slopes	Wellsboro	80
	Morris	8
	Norwich	8
	Lackawanna	4
296635		
Wellsboro channery loam, 8 to 15 percent slopes	Wellsboro	85
	Lackawanna	5
	Morris	5
	Norwich	5
296636		
Wellsboro channery loam, 15 to 25 percent slopes	Wellsboro	85
	Lackawanna	5
	Morris	5
	Norwich	5

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
296637		
Wellsboro channery loam, 3 to 8 percent slopes	Wellsboro	80
	Morris	8
	Norwich	8
	Lackawanna	4
296638		
Wellsboro channery loam, 8 to 25 percent slopes	Wellsboro	85
	Lackawanna	8
	Norwich	3
	Morris	2
296639		
Wellsboro and Mardin channery loams, 25 to 50 percent slopes	Wellsboro	70
	Mardin	20
296640		
Wyoming gravelly sandy loam, 3 to 8 percent slopes	Wyoming	85
	Braceville	5
	Unadilla	5
296641		
Wyoming gravelly sandy loam, 8 to 15 percent slopes	Wyoming	85
	Braceville	7
	Unadilla	5
296642		
Wyoming gravelly sandy loam, 15 to 25 percent slopes	Wyoming	85
	Unadilla	5
296643		
Wyoming gravelly sandy loam, 25 to 45 percent slopes	Wyoming	90
296644		
Water	Water	100
297185		
Edgemere-Shohola complex, 3 to 15 percent slopes, very rubbly	Edgemere	42
	Shohola	42
	Mardin	11
	Freetown	5
297186		
Edgemere extremely stony loam, 0 to 3 percent slopes, very rubbly	Edgemere	75
	Shohola	10
	Mardin	7
	Freetown	4
	Wyalusing	4
297188		
Manlius-Arnot-Rock outcrop complex, 15 to 30 percent slopes, rubbly	Manlius	40
	Arnot	35
	Rock outcrop	15
	Mardin	6
	Rubble land	4
297189		
Manlius-Arnot-Rock outcrop complex, 30 to 80 percent slopes, rubbly	Manlius	40
	Arnot	35
	Rock outcrop	15
	Mardin	6
	Rubble land	4

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
297190		
Braceville fine sandy loam	Braceville	82
	Wyoming	9
	Chenango	6
	Rexford, poorly drained	3
297191		
Wyalusing fine sandy loam	Wyalusing	85
	Barbour	7
	Craigsville	6
	Pope	2
297192		
Pope fine sandy loam	Pope	95
	Wyalusing	5
297193		
Paupack mucky peat	Paupack	90
	Edgemere	8
	Kimbles	2
297194		
Morris very channery loam, 0 to 8 percent slopes, very stony	Morris	82
	Edgemere	12
	Wurtsboro	6
297196		
Freetown mucky peat	Freetown	94
	Gleneyre	6
297199		
Oquaga very stony loam, 0 to 8 percent slopes, extremely bouldery	Oquaga	78
	Lackawanna	5
	Wellsboro	5
	Shohola	3
297200		
Oquaga very stony loam, 8 to 15 percent slopes, extremely bouldery	Oquaga	78
	Lackawanna	10
	Wellsboro	5
	Rock outcrop	4
	Shohola	3
297201		
Oquaga very channery loam, 15 to 30 percent slopes, extremely bouldery	Oquaga	75
	Wellsboro	7
	Rock outcrop	6
	Lackawanna	5
	Shohola	2
297202		
Oquaga-Arnot-Rock outcrop complex, 20 to 60 percent slopes, very rubbly	Oquaga	40
	Arnot	30
	Rock outcrop	20
	Lackawanna	6
	Wellsboro	4
297203		
Delaware fine sandy loam, 0 to 3 percent slopes	Delaware	93
	Pope	4
	Chenango	2
	Barbour	1

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
297204		
Delaware fine sandy loam, 3 to 8 percent slopes	Delaware	82
	Chenango	9
	Pope	6
	Barbour	3
297205		
Delaware fine sandy loam, 8 to 20 percent slopes	Delaware	80
	Pope	8
	Barbour	7
	Chenango	5
297207		
Wurtsboro channery fine sandy loam, 0 to 8 percent slopes, stony	Wurtsboro	92
	Edgemere	3
	Shohola	3
	Oquaga	2
297208		
Wurtsboro channery fine sandy loam, 8 to 15 percent slopes, stony	Wurtsboro	92
	Oquaga	5
	Edgemere	2
	Shohola	1
297209		
Philo loam	Philo	85
	Barbour	8
	Chenango	2
	Wyalusing	2
297210		
Barbour fine sandy loam	Barbour	85
	Pope	7
	Philo	4
	Delaware	3
297211		
Wellsboro stony loam, 0 to 8 percent slopes, extremely stony	Wellsboro	89
	Oquaga	6
	Edgemere	3
	Rock outcrop	1
	Shohola	1
297212		
Wellsboro stony loam, 8 to 15 percent slopes, extremely stony	Wellsboro	89
	Oquaga	6
	Edgemere	2
	Rock outcrop	2
	Shohola	1
297213		
Wellsboro stony loam, 15 to 25 percent slopes, extremely stony	Wellsboro	82
	Oquaga	7
	Rock outcrop	6
	Arnot	5
297215		
Wellsboro channery loam, 8 to 15 percent slopes, stony	Wellsboro	91
	Oquaga	6
	Edgemere	2
	Shohola	1

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
297216		
Wurtsboro stony fine sandy loam, 0 to 8 percent slopes, extremely stony--	Wurtsboro	92
	Edgemere	3
	Shohola	3
	Oquaga	2
297217		
Wurtsboro stony fine sandy loam, 8 to 15 percent slopes, extremely stony-	Wurtsboro	88
	Oquaga	6
	Rock outcrop	4
	Edgemere	1
	Shohola	1
297218		
Wurtsboro stony fine sandy loam, 15 to 25 percent slopes, extremely stony	Wurtsboro	88
	Rock outcrop	4
	Lordstown	3
	Oquaga	3
	Shohola	2
297221		
Lackawanna channery loam, 3 to 8 percent slopes, extremely stony---------	Lackawanna	81
	Oquaga	11
	Morris	8
297223		
Lackawanna channery loam, 15 to 30 percent slopes, extremely stony-------	Lackawanna	75
	Oquaga	11
	Arnot	8
	Morris	3
	Rock outcrop	2
297224		
Swartswood stony fine sandy loam, 0 to 8 percent slopes, extremely stony-	Swartswood	95
	Oquaga	5
297225		
Swartswood stony fine sandy loam, 8 to 15 percent slopes, extremely stony	Swartswood	95
	Oquaga	5
297226		
Swartswood stony fine sandy loam, 15 to 30 percent slopes, extremely stony----------	Swartswood	90
	Oquaga	5
	Arnot	3
	Rock outcrop	2
297227		
Arnot very channery loam, 3 to 15 percent slopes, very rocky----------	Arnot	88
	Rock outcrop	6
	Mardin	4
	Lackawanna	1
297228		
Arnot very channery loam, 15 to 35 percent slopes, very rocky----------	Arnot	85
	Rock outcrop	8
	Mardin	5
	Swartswood	2
297229		
Wyoming very cobbly sandy loam, 3 to 8 percent slopes----------	Wyoming	90
	Delaware	6
	Braceville	2
	Suncook	2

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
297230		
Wyoming very cobbly sandy loam, 8 to 15 percent slopes	Wyoming	90
	Delaware	6
	Braceville	2
	Suncook	2
297231		
Wyoming very cobbly sandy loam, 15 to 30 percent slopes	Wyoming	90
	Suncook	6
	Delaware	3
	Braceville	1
297236		
Suncook loamy sand, 0 to 8 percent slopes	Suncook	91
	Wyalusing	4
297239		
Mardin stony loam, 0 to 8 percent slopes, extremely stony	Mardin	85
	Manlius	5
	Oquaga	5
	Edgemere	3
	Shohola	2
297240		
Mardin stony loam, 8 to 15 percent slopes, extremely stony	Mardin	85
	Manlius	5
	Oquaga	4
	Edgemere	3
	Shohola	2
297241		
Unadilla silt loam	Unadilla	90
	Braceville	6
	Suncook	4
297242		
Shohola-Edgemere complex, 0 to 8 percent slopes, very rubbly	Shohola	62
	Edgemere	29
	Mardin	9
297243		
Shohola-Edgemere complex, 8 to 15 percent slopes, very rubbly	Shohola	62
	Edgemere	29
	Mardin	9
297244		
Lordstown-Swartswood complex, 0 to 8 percent slopes, extremely stony	Lordstown	40
	Swartswood	35
	Arnot	10
	Rock outcrop	10
	Shohola	5
297245		
Lordstown-Swartswood complex, 8 to 15 percent slopes, extremely stony	Lordstown	40
	Swartswood	35
	Arnot	10
	Rock outcrop	10
	Shohola	5

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
297246		
Lordstown-Swartswood complex, 15 to 30 percent slopes, extremely stony	Lordstown	40
	Swartswood	35
	Arnot	10
	Rock outcrop	10
	Shohola	5
297247		
Chenango gravelly fine sandy loam, 0 to 8 percent slopes	Chenango	86
	Delaware	7
	Braceville	3
	Philo	2
	Unadilla	2
297248		
Chenango gravelly fine sandy loam, 8 to 15 percent slopes	Chenango	85
	Delaware	9
	Unadilla	6
297249		
Chenango gravelly fine sandy loam, 15 to 25 percent slopes	Chenango	90
	Delaware	8
	Unadilla	2
297250		
Lordstown very channery loam, 3 to 8 percent slopes, very stony	Lordstown	94
	Arnot	3
	Swartswood	2
	Rock outcrop	1
297251		
Lordstown very channery loam, 8 to 15 percent slopes, very stony	Lordstown	86
	Swartswood	7
	Arnot	5
	Rock outcrop	2
297253		
Craigsville-Wyoming complex, 0 to 8 percent slopes, extremely stony	Craigsville	50
	Wyoming	40
	Wyalusing	6
	Philo	2
	Pope	2
297254		
Pits, shale, and gravel	Pits, shale	40
	Pits, gravel	40
309440		
Edgemere-Shohola complex, 3 to 15 percent slopes, very rubbly	Edgemere	42
	Shohola	42
	Mardin	11
	Freetown	5
319863		
Oquaga-Arnot-Rock outcrop complex, 20 to 60 percent slopes, very rubbly	Oquaga	40
	Arnot	30
	Rock outcrop	20
	Lackawanna	6
	Wellsboro	4

Table 1.--Soil Legend--Continued

Map unit symbol and map unit name	Components in map unit	Pct. of map unit
319865		
Wellsboro stony loam, 0 to 8 percent slopes, extremely stony	Wellsboro	89
	Oquaga	6
	Edgemere	3
	Rock outcrop	1
	Shohola	1
741008		
Oquaga very stony loam, 0 to 8 percent slopes, extremely bouldery	Oquaga	78
	Lackawanna	5
	Wellsboro	5
	Shohola	3

Table 2.--Land Capability Classification

[Land capability classification is a system of grouping soils primarily on the basis of their capability to produce common cultivated crops and pasture plants without deteriorating over a long period of time. Classifications in the table are for nonirrigated areas]

Map unit symbol and component name	Land capability
290457	
Barbour	1
290461	
Bath	3e
290465	
Cadosia	7s
290466	
Cadosia	7s
290468	
Chenango	2s
290483	
Fluvaquents	5w
Udifluvents	5w
290484	
Halcott	6s
Mongaup	6s
Vly	6s
290485	
Halcott	7s
Mongaup	7s
Vly	7s
290487	
Lackawanna	2e
290488	
Lackawanna	3e
290489	
Lackawanna	4e
290490	
Lackawanna	6e
290491	
Lackawanna	6s
Bath	6s
290492	
Lackawanna	7s
Bath	7s

Table 2.--Land Capability Classification--Continued

Map unit symbol and component name	Land capability
290493	
Lackawanna	7s
Bath	7s
290506	
Lordstown	2e
290507	
Lordstown	3e
290509	
Lordstown	6e
290510	
Maplecrest	2e
290511	
Maplecrest	3e
290512	
Maplecrest	4e
290514	
Mardin	2w
290515	
Mardin	3e
290519	
Mongaup	2e
290522	
Morris	3w
290523	
Morris	3w
290525	
Morris	6s
Volusia	6s
290526	
Norchip	4w
290535	
Oquaga	2e
290536	
Oquaga	3e
290539	
Oquaga	7e
290540	
Oquaga	6s
Lordstown	6s
Arnot	6s

Table 2.--Land Capability Classification--Continued

Map unit symbol and component name	Land capability
290541	
Oquaga	7s
Lordstown	7s
Arnot	7s
290542	
Oquaga	7s
Lordstown	7s
Arnot	7s
290546	
Raypol	4w
290547	
Red Hook	3w
290548	
Riverhead	2s
290549	
Riverhead	2e
290555	
Torull	4w
Gretor	3w
290556	
Tunkhannock	2s
290562	
Tunkhannock	2s
Chenango	2s
290563	
Udorthents.	
290565	
Unadilla	1
290567	
Valois	2e
290568	
Valois	3e
290569	
Valois	4e
290570	
Valois	6e
290576	
Volusia	3w
290578	
Wellsboro	2w
290579	
Wellsboro	3e

Table 2.--Land Capability Classification--Continued

Map unit symbol and component name	Land capability
290581	
Wellsboro	6s
Mardin	6s
290582	
Wenonah	1
290592	
Carlisle	5w
Palms	5w
293892	
Alden, extremely stony	7s
293895	
Arnot	4e
Lordstown	3e
293896	
Arnot	6e
Lordstown	4e
293897	
Arnot	7e
Lordstown	7e
293921	
Erie, extremely stony	7s
293929	
Hoosic	3s
293930	
Hoosic	3e
293931	
Hoosic	4e
293932	
Lordstown	2e
293939	
Middlebury	2w
293943	
Otisville	3s
293944	
Otisville	4e
293945	
Otisville	6s
293946	
Otisville	7s
Hoosic	6e
293961	
Arnot	6s

Table 2.--Land Capability Classification--Continued

Map unit symbol and component name	Land capability
293962	
Arnot	6s
293963	
Arnot	7s
293975	
Suncook	3s
293979	
Swartswood, very stony	6s
Mardin	6s
293980	
Swartswood, very stony	7s
Mardin	7s
293981	
Swartswood, very stony	7s
Mardin	7s
293983	
Udifluvents, frequently flooded	5w
Fluvaquents	5w
295043	
Alden	5w
295044	
Arnot	6s
Lordstown	6s
295045	
Arnot	7s
Lordstown	7s
295046	
Arnot	6s
Oquaga	6s
295047	
Arnot	7s
Oquaga	7s
295048	
Arnot	6s
295049	
Arnot	7s
295050	
Arnot	7s
295051	
Barbour	1

Table 2.--Land Capability Classification--Continued

Map unit symbol and component name	Land capability
295052	
Bash	3w
295053	
Carlisle	5w
295054	
Carlisle, ponded	5w
Palms, ponded	5w
Alden, ponded	5w
295055	
Chenango	2s
295056	
Chenango	2s
295057	
Chenango	3e
295059	
Cheshire, stony	2e
295060	
Cheshire, stony	3e
295061	
Cheshire, stony	4e
295062	
Cheshire, stony	6e
295063	
Cheshire, stony	7e
295069	
Fluvaquents	5w
Udifluvents, frequently flooded	5w
295074	
Lackawanna	2e
295075	
Lackawanna	3e
295076	
Lackawanna	4e
295082	
Lordstown, stony	2e
295083	
Lordstown, very stony	6s
Arnot, very stony	6s
295092	
Morris	3w
295093	
Morris	3w

Table 2.--Land Capability Classification--Continued

Map unit symbol and component name	Land capability
295094	
Morris	3e
295095	
Neversink	4w
295101	
Oquaga	2e
295102	
Oquaga	3e
Arnot	4e
295103	
Oquaga	4e
Arnot	6e
295105	
Otisville	3s
295106	
Otisville	3s
295107	
Otisville	4e
295109	
Palms	5w
295110	
Philo	2w
295113	
Pompton	2w
295114	
Pompton	2w
295115	
Pope, occasionally flooded	2w
295116	
Pope, rarely flooded	1
295117	
Raynham, poorly drained	3w
Raynham, somewhat poorly drained	3w
295118	
Red Hook	3w
295119	
Riverhead	2s
295120	
Riverhead	2s
295121	
Riverhead	3e
295122	
Scio	2e

Table 2.--Land Capability Classification--Continued

Map unit symbol and component name	Land capability
295123	
Scriba, stony	3w
295124	
Scriba, stony	3w
295125	
Scriba, extremely stony	7s
Morris, extremely stony	7s
295126	
Suncook	3s
295129	
Swartswood	2e
295130	
Swartswood	3e
295131	
Swartswood	4e
295132	
Swartswood, stony	6e
Lackawanna, stony	6e
295133	
Swartswood, very stony	7s
Lackawanna, very stony	7s
295134	
Swartswood, very stony	7s
Lackawanna, very stony	7s
295136	
Tuller, somewhat poorly drained	6s
Tuller, poorly drained	6s
295137	
Tunkhannock	2s
295138	
Tunkhannock	2s
295139	
Tunkhannock	3e
295140	
Tunkhannock	4e
295141	
Tunkhannock	6e
Otisville	7s
295142	
Tunkhannock	7e
Otisville	7s

Table 2.--Land Capability Classification--Continued

Map unit symbol and component name	Land capability
295143	
Udorthents	7s
295144	
Unadilla	1
295145	
Unadilla	2e
295146	
Valois	2e
295147	
Valois	3e
295148	
Valois	4e
295149	
Valois	6e
295150	
Valois	7e
295153	
Wayland	5w
295154	
Wellsboro	2w
295155	
Wellsboro	2w
295156	
Wellsboro	3e
295157	
Wellsboro, extremely stony	7s
Wurtsboro, extremely stony	7s
295162	
Wurtsboro, stony	2w
295163	
Wurtsboro, stony	2w
295164	
Wurtsboro, stony	3e
296588	
Arnot	3e
296589	
Arnot	4e
296590	
Arnot	6e
296591	
Barbour	1
296592	
Basher	2w

Table 2.--Land Capability Classification--Continued

Map unit symbol and component name	Land capability
296593	
Fluvents	7s
Fluvaquents	7s
296594	
Holly	3w
296595	
Linden	1
296596	
Lordstown	2e
296599	
Lordstown	7s
296600	
Lordstown	7s
296601	
Medihemists	8w
Medifibrists	8w
296602	
Mardin	2w
296603	
Mardin	3e
296604	
Mardin	4e
296605	
Mardin	7s
296606	
Mardin	7s
296608	
Morris	3w
296609	
Morris	3e
296610	
Morris	7s
296611	
Morris	7s
296613	
Norwich	7s
Chippewa	7s
296614	
Oquaga	2e
296615	
Oquaga	3e
296616	
Oquaga	4e

Table 2.--Land Capability Classification--Continued

Map unit symbol and component name	Land capability
296617	
Oquaga	7s
296618	
Oquaga	7s
296619	
Oquaga	7s
Lordstown	7s
296622	
Rexford, poorly drained	3w
Rexford, somewhat poorly drained	3w
296623	
Arnot	6e
296625	
Swartswood	3e
296628	
Swartswood	7s
296630	
Volusia	3w
296632	
Volusia	7s
296633	
Volusia	7s
296634	
Wellsboro	2w
296635	
Wellsboro	3e
296636	
Wellsboro	3e
296637	
Wellsboro	7s
296638	
Wellsboro	7s
296639	
Wellsboro	7s
Mardin	7s
296640	
Wyoming	3s
296641	
Wyoming	4s
296642	
Wyoming	4e
296643	
Wyoming	7e

Table 2.--Land Capability Classification--Continued

Map unit symbol and component name	Land capability
297185	
Edgemere	7s
Shohola	7s
297186	
Edgemere	7s
297188	
Manlius	7s
Arnot	7s
297189	
Manlius	7s
Arnot	7s
297190	
Braceville	2w
297191	
Wyalusing	4w
297192	
Pope	2w
297193	
Paupack	5w
297194	
Morris	6s
297196	
Freetown	5w
297199	
Oquaga	6s
297200	
Oquaga	6s
297201	
Oquaga	6s
297202	
Oquaga	7s
Arnot	7s
297203	
Delaware	1
297204	
Delaware	2e
297205	
Delaware	4e
297207	
Wurtsboro	2w
297208	
Wurtsboro	3e

Table 2.--Land Capability Classification--Continued

Map unit symbol and component name	Land capability
297209	
Philo	2w
297210	
Barbour	1
297211	
Wellsboro	6s
297212	
Wellsboro	6s
297213	
Wellsboro	6s
297215	
Wellsboro	3e
297216	
Wurtsboro	6s
297217	
Wurtsboro	6s
297218	
Wurtsboro	6s
297221	
Lackawanna	7s
297223	
Lackawanna	7s
297224	
Swartswood	6s
297225	
Swartswood	6s
297226	
Swartswood	6s
297227	
Arnot	6s
297228	
Arnot	7s
297229	
Wyoming	3s
297230	
Wyoming	4s
297231	
Wyoming	4e
297236	
Suncook	3s
297239	
Mardin	6s
297240	
Mardin	6s

Table 2.--Land Capability Classification--Continued

Map unit symbol and component name	Land capability
297241	
Unadilla	1
297242	
Shohola	7s
Edgemere	7s
297243	
Shohola	7s
Edgemere	7s
297244	
Lordstown	7s
Swartswood	7s
297245	
Lordstown	7s
Swartswood	7s
297246	
Lordstown	7s
Swartswood	7s
297247	
Chenango	2s
297248	
Chenango	3e
297249	
Chenango	4e
297250	
Lordstown	6s
297251	
Lordstown	6s
297253	
Craigsville	6s
Wyoming	6s
309440	
Edgemere	7s
Shohola	7s
319863	
Oquaga	7s
Arnot	7s
319865	
Wellsboro	6s
741008	
Oquaga	6s

Table 3.--Prime Farmland and Other Important Farmland

[Only the soils considered prime or important farmland are listed. Urban or built-up areas of the soils listed are not considered prime or important farmland]

Map unit symbol	Map unit name	Farmland classification
290457	Barbour loam	All areas are prime farmland
290461	Bath channery silt loam, 8 to 15 percent slopes	Farmland of statewide importance
290468	Chenango gravelly silt loam, 3 to 8 percent slopes	All areas are prime farmland
290487	Lackawanna flaggy silt loam, 3 to 8 percent slopes	All areas are prime farmland
290488	Lackawanna flaggy silt loam, 8 to 15 percent slopes	Farmland of statewide importance
290506	Lordstown channery silt loam, 2 to 8 percent slopes	All areas are prime farmland
290507	Lordstown channery silt loam, 8 to 15 percent slopes	Farmland of statewide importance
290510	Maplecrest gravelly silt loam, 3 to 8 percent slopes	All areas are prime farmland
290511	Maplecrest gravelly silt loam, 8 to 15 percent slopes	Farmland of statewide importance
290514	Mardin channery silt loam, 3 to 8 percent slopes	Farmland of statewide importance
290515	Mardin channery silt loam, 8 to 15 percent slopes	Farmland of statewide importance
290519	Mongaup channery loam, 2 to 8 percent slopes	All areas are prime farmland
290522	Morris flaggy silt loam, 0 to 3 percent slopes	Farmland of statewide importance
290523	Morris flaggy silt loam, 3 to 8 percent slopes	Farmland of statewide importance
290526	Norchip silt loam	Farmland of statewide importance
290535	Oquaga channery silt loam, 2 to 8 percent slopes	Farmland of statewide importance
290536	Oquaga channery silt loam, 8 to 15 percent slopes	Farmland of statewide importance
290546	Raypol silt loam	Farmland of statewide importance
290547	Red Hook gravelly silt loam	Prime farmland where drained
290548	Riverhead loam, 0 to 3 percent slopes	All areas are prime farmland
290549	Riverhead loam, 3 to 8 percent slopes	All areas are prime farmland
290555	Torull-Gretor complex, 0 to 6 percent slopes	Farmland of statewide importance
290556	Tunkhannock gravelly loam, 0 to 3 percent slopes	All areas are prime farmland
290562	Tunkhannock and Chenango soils, fan, 3 to 8 percent slopes	All areas are prime farmland
290565	Unadilla silt loam	All areas are prime farmland
290567	Valois very fine sandy loam, 3 to 8 percent slopes	All areas are prime farmland
290568	Valois very fine sandy loam, 8 to 15 percent slopes	Farmland of statewide importance
290576	Volusia channery silt loam, 3 to 8 percent slopes	Farmland of statewide importance
290578	Wellsboro channery silt loam, 3 to 8 percent slopes	Farmland of statewide importance
290579	Wellsboro channery silt loam, 8 to 15 percent slopes	Farmland of statewide importance
290582	Wenonah silt loam	All areas are prime farmland
293929	Hoosic gravelly sandy loam, 3 to 8 percent slopes	Farmland of statewide importance
293930	Hoosic gravelly sandy loam, 8 to 15 percent slopes	Farmland of statewide importance
293932	Lordstown channery silt loam, 3 to 8 percent slopes	All areas are prime farmland
293939	Middlebury silt loam	All areas are prime farmland
293975	Suncook sandy loam	Farmland of statewide importance
295051	Barbour loam	All areas are prime farmland
295052	Bash silt loam	Prime farmland where drained
295055	Chenango gravelly loam, 0 to 3 percent slopes	All areas are prime farmland
295056	Chenango gravelly loam, 3 to 8 percent slopes	All areas are prime farmland
295057	Chenango gravelly loam, 8 to 15 percent slopes	Farmland of statewide importance
295059	Cheshire channery loam, 3 to 8 percent slopes, stony	All areas are prime farmland
295060	Cheshire channery loam, 8 to 15 percent slopes, stony	Farmland of statewide importance
295074	Lackawanna channery loam, 3 to 8 percent slopes	All areas are prime farmland
295075	Lackawanna channery loam, 8 to 15 percent slopes	Farmland of statewide importance
295082	Lordstown silt loam, 3 to 8 percent slopes, stony	All areas are prime farmland
295092	Morris loam, 0 to 3 percent slopes	Farmland of statewide importance
295093	Morris loam, 3 to 8 percent slopes	Farmland of statewide importance
295094	Morris loam, 8 to 15 percent slopes	Farmland of statewide importance
295095	Neversink loam	Farmland of statewide importance
295101	Oquaga very channery silt loam, 3 to 8 percent slopes	Farmland of statewide importance
295102	Oquaga-Arnot complex, 8 to 15 percent slopes	Farmland of statewide importance
295110	Philo silt loam	All areas are prime farmland
295113	Pompton gravelly fine sandy loam, 0 to 3 percent slopes	All areas are prime farmland
295114	Pompton gravelly fine sandy loam, 3 to 8 percent slopes	All areas are prime farmland
295115	Pope silt loam, occasionally flooded	All areas are prime farmland
295116	Pope very fine sandy loam, rarely flooded	All areas are prime farmland
295117	Raynham silt loam	Prime farmland where drained
295118	Red Hook sandy loam	Prime farmland where drained

Table 3.--Prime Farmland and Other Important Farmland--Continued

Map unit symbol	Map unit name	Farmland classification
295119	Riverhead sandy loam, 0 to 3 percent slopes	All areas are prime farmland
295120	Riverhead sandy loam, 3 to 8 percent slopes	All areas are prime farmland
295121	Riverhead sandy loam, 8 to 15 percent slopes	Farmland of statewide importance
295122	Scio silt loam, 2 to 6 percent slopes	All areas are prime farmland
295123	Scriba loam, 0 to 3 percent slopes, stony	Farmland of statewide importance
295124	Scriba loam, 3 to 8 percent slopes, stony	Farmland of statewide importance
295126	Suncook fine sandy loam	Farmland of statewide importance
295129	Swartswood gravelly loam, 3 to 8 percent slopes, stony	Farmland of statewide importance
295130	Swartswood gravelly loam, 8 to 15 percent slopes, stony	Farmland of statewide importance
295137	Tunkhannock gravelly loam, 0 to 3 percent slopes	All areas are prime farmland
295138	Tunkhannock gravelly loam, 3 to 8 percent slopes	All areas are prime farmland
295139	Tunkhannock gravelly loam, 8 to 15 percent slopes	Farmland of statewide importance
295144	Unadilla silt loam, 0 to 2 percent slopes	All areas are prime farmland
295145	Unadilla silt loam, 2 to 6 percent slopes	All areas are prime farmland
295146	Valois gravelly sandy loam, 3 to 8 percent slopes	All areas are prime farmland
295147	Valois gravelly sandy loam, 8 to 15 percent slopes	Farmland of statewide importance
295154	Wellsboro gravelly loam, 0 to 3 percent slopes	Farmland of statewide importance
295155	Wellsboro gravelly loam, 3 to 8 percent slopes	Farmland of statewide importance
295156	Wellsboro gravelly loam, 8 to 15 percent slopes	Farmland of statewide importance
295162	Wurtsboro loam, 0 to 3 percent slopes, stony	Farmland of statewide importance
295163	Wurtsboro loam, 3 to 8 percent slopes, stony	Farmland of statewide importance
295164	Wurtsboro loam, 8 to 15 percent slopes, stony	Farmland of statewide importance
296591	Barbour loam	All areas are prime farmland
296592	Basher silt loam	All areas are prime farmland
296595	Linden fine sandy loam, rarely flooded	All areas are prime farmland
296596	Lordstown channery loam, 3 to 8 percent slopes	All areas are prime farmland
296602	Mardin channery loam, 3 to 8 percent slopes	All areas are prime farmland
296603	Mardin channery loam, 8 to 15 percent slopes	Farmland of statewide importance
296608	Morris channery loam, 3 to 8 percent slopes	Farmland of statewide importance
296609	Morris channery loam, 8 to 15 percent slopes	Farmland of statewide importance
296614	Oquaga channery loam, 3 to 8 percent slopes	Farmland of statewide importance
296615	Oquaga channery loam, 8 to 15 percent slopes	Farmland of statewide importance
296622	Rexford silt loam	Farmland of statewide importance
296625	Swartswood channery sandy loam, 8 to 15 percent slopes	Farmland of statewide importance
296630	Volusia channery silt loam, 3 to 8 percent slopes	Farmland of statewide importance
296634	Wellsboro channery loam, 3 to 8 percent slopes	All areas are prime farmland
296635	Wellsboro channery loam, 8 to 15 percent slopes	Farmland of statewide importance
296636	Wellsboro channery loam, 15 to 25 percent slopes	Farmland of statewide importance
296640	Wyoming gravelly sandy loam, 3 to 8 percent slopes	Farmland of statewide importance
296641	Wyoming gravelly sandy loam, 8 to 15 percent slopes	Farmland of statewide importance
297190	Braceville fine sandy loam	All areas are prime farmland
297192	Pope fine sandy loam	All areas are prime farmland
297203	Delaware fine sandy loam, 0 to 3 percent slopes	All areas are prime farmland
297204	Delaware fine sandy loam, 3 to 8 percent slopes	All areas are prime farmland
297207	Wurtsboro channery fine sandy loam, 0 to 8 percent slopes, stony	All areas are prime farmland
297208	Wurtsboro channery fine sandy loam, 8 to 15 percent slopes, stony	Farmland of statewide importance
297209	Philo loam	All areas are prime farmland
297210	Barbour fine sandy loam	All areas are prime farmland
297215	Wellsboro channery loam, 8 to 15 percent slopes, stony	Farmland of statewide importance
297229	Wyoming very cobbly sandy loam, 3 to 8 percent slopes	Farmland of statewide importance
297236	Suncook loamy sand, 0 to 8 percent slopes	Farmland of statewide importance
297241	Unadilla silt loam	All areas are prime farmland
297247	Chenango gravelly fine sandy loam, 0 to 8 percent slopes	All areas are prime farmland
297248	Chenango gravelly fine sandy loam, 8 to 15 percent slopes	Farmland of statewide importance

Table 4.--Hydric Soils

[This report lists only those map unit components that are rated as hydric. Definitions of hydric criteria codes are included at the end of the table]

Map unit symbol and map unit name	Component	Percent of map unit	Landform	Hydric soils criteria			
				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
290457							
Barbour loam	Fluvaquents	3	Flood plains	4, 2B3	Yes	Yes	No
290468							
Chenango gravelly silt loam, 3 to 8 percent slopes	Raypol	5	Flood plains	2B3	Yes	No	No
290483							
Fluvaquents-Udifluvents complex, frequently flooded	Fluvaquents	45	Flood plains	2B3, 4	Yes	Yes	No
290522							
Morris flaggy silt loam, 0 to 3 percent slopes	Norchip	5	Depressions	2B3	Yes	No	No
	Fluvaquents	3	Flood plains	2B3, 4	Yes	Yes	No
290523							
Morris flaggy silt loam, 3 to 8 percent slopes	Norchip	5	Depressions	2B3	Yes	No	No
	Fluvaquents	3	Flood plains	2B3, 4	Yes	Yes	No
290525							
Morris and Volusia soils, 2 to 10 percent slopes, very stony	Norchip	5	Depressions	2B3	Yes	No	No
290526							
Norchip silt loam	Norchip	80	Depressions	2B3	Yes	No	No
	Bucksport	5	Swamps, marshes, bogs	3, 1	No	No	Yes
	Wonsqueak	5	Swamps, marshes	3, 1	No	No	Yes
290546							
Raypol silt loam	Raypol	80	Flood plains	2B3	Yes	No	No
	Saprists	3	Swamps, marshes	1, 3	No	No	Yes
	Aquents	2	Depressions	3, 2B3	Yes	No	Yes
290547							
Red Hook gravelly silt loam	Raypol	5	Flood plains	2B3	Yes	No	No
	Fluvaquents	3	Flood plains	2B3, 4	Yes	Yes	No
290555							
Torull-Gretor complex, 0 to 6 percent slopes	Torull	40	Benches, depressions	2B3	Yes	No	No
290562							
Tunkhannock and Chenango soils, fan, 3 to 8 percent slopes	Fluvaquents	2	Flood plains	4, 2B3	Yes	Yes	No
290576							
Volusia channery silt loam, 3 to 8 percent slopes	Norchip	5	Depressions	2B3	Yes	No	No

Table 4.--Hydric Soils--Continued

Map unit symbol and map unit name	Component	Percent of map unit	Landform	Hydric soils criteria			
				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
290582							
Wenonah silt loam	Raypol	5	Flood plains	2B3	Yes	No	No
	Fluvaquents	3	Flood plains	4, 2B3	Yes	Yes	No
290592							
Carlisle and Palms soils	Carlisle	45	Marshes, swamps	3, 1	No	No	Yes
	Palms	40	Marshes, swamps	3, 1	No	No	Yes
	Norchip	5	Depressions	2B3	Yes	No	No
293892							
Alden extremely stony soils	Alden, extremely stony	75	Depressions	2B3, 3	Yes	No	Yes
	Canandaigua	5	Depressions	3, 2B3	Yes	No	Yes
	Lyons	5	Depressions	2B3	Yes	No	No
	Palms	5	Swamps, marshes	1, 3	No	No	Yes
	Wayland	5	Flood plains	2B3, 3, 4	Yes	Yes	Yes
293921							
Erie extremely stony soils, gently sloping	Alden	5	Depressions	2B3, 3	Yes	No	Yes
293939							
Middlebury silt loam	Wayland	5	Flood plains	3, 4, 2B3	Yes	Yes	Yes
293949							
Pits, gravel	Scarboro	5	Depressions	2B3, 3	Yes	No	Yes
293983							
Udifluvents-Fluvaquents complex, frequently flooded	Fluvaquents	30	Flood plains	2B3, 3, 4	Yes	Yes	Yes
	Canandaigua	5	Depressions	3, 2B3	Yes	No	Yes
	Humaquepts	5	Swamps, marshes	2B3, 3	Yes	No	Yes
	Palms	5	Swamps, marshes	3, 1	No	No	Yes
	Wallkill	5	Flood plains	3, 2B3, 4	Yes	Yes	Yes
	Wayland	5	Flood plains	2B3, 4, 3	Yes	Yes	Yes
295043							
Alden silt loam	Alden	80	Depressions	3, 2B3	Yes	No	Yes
	Neversink	5	Depressions	2B3, 3	Yes	No	Yes
	Palms	5	Swamps, marshes	1, 3	No	No	Yes
295051							
Barbour loam	Wayland	1	Flood plains	2B3, 4, 3	Yes	Yes	Yes
295052							
Bash silt loam	Wayland	1	Flood plains	3, 4, 2B3	Yes	Yes	Yes
295053							
Carlisle muck	Carlisle	85	Marshes, swamps	3, 1	No	No	Yes
	Palms	5	Swamps, marshes	3, 1	No	No	Yes
	Wayland	5	Flood plains	2B3, 3, 4	Yes	Yes	Yes
	Alden	2	Depressions	3, 2B3	Yes	No	Yes
	Neversink	2	Depressions	2B3, 3	Yes	No	Yes
295054							
Carlisle, Palms, and Alden soils, ponded	Alden, ponded	25	Depressions	3, 2B3	Yes	No	Yes
	Carlisle, ponded	25	Marshes, swamps	1, 3	No	No	Yes
	Palms, ponded	25	Depressions	1, 3	No	No	Yes
	Unnamed soils	10	Depressions	2B3, 3	Yes	No	Yes
	Fluvaquents	5	Flood plains	4, 2B3	Yes	Yes	No
	Wayland	5	Flood plains	4, 2B3, 3	Yes	Yes	Yes

Table 4.--Hydric Soils--Continued

Map unit symbol and map unit name	Component	Percent of map unit	Landform	Hydric soils criteria			
				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
295069							
Fluvaquents-Udifluvents complex, frequently flooded	Fluvaquents	45	Flood plains	2B3, 4	Yes	Yes	No
	Wayland	2	Flood plains	2B3, 4, 3	Yes	Yes	Yes
295092							
Morris loam, 0 to 3 percent slopes	Alden	5	Depressions	3, 2B3	Yes	No	Yes
	Neversink	1	Depressions	3, 2B3	Yes	No	Yes
295093							
Morris loam, 3 to 8 percent slopes	Alden	5	Depressions	3, 2B3	Yes	No	Yes
	Neversink	1	Depressions	2B3, 3	Yes	No	Yes
295095							
Neversink loam	Neversink	80	Depressions	2B3	Yes	No	No
	Alden	5	Depressions	3, 2B3	Yes	No	Yes
	Unnamed soils	4	Depressions	2B3, 3	Yes	No	Yes
295105							
Otisville gravelly loamy coarse sand, 0 to 3 percent slopes	Fluvaquents	2	Flood plains	2B3, 4	Yes	Yes	No
295106							
Otisville gravelly loamy coarse sand, 3 to 8 percent slopes	Fluvaquents	2	Flood plains	4, 2B3	Yes	Yes	No
295109							
Palms muck	Palms	85	Marshes, swamps	3, 1	No	No	Yes
	Alden	5	Depressions	2B3, 3	Yes	No	Yes
	Carlisle	5	Swamps, marshes	1, 3	No	No	Yes
	Wayland	3	Flood plains	3, 4, 2B3	Yes	Yes	Yes
	Neversink	2	Depressions	3, 2B3	Yes	No	Yes
295110							
Philo silt loam	Wayland	1	Flood plains	3, 4, 2B3	Yes	Yes	Yes
295113							
Pompton gravelly fine sandy loam, 0 to 3 percent slopes	Raynham	2	Depressions	2B3	Yes	No	No
295114							
Pompton gravelly fine sandy loam, 3 to 8 percent slopes	Raynham	2	Depressions	2B3	Yes	No	No
295115							
Pope silt loam, occasionally flooded	Wayland	1	Flood plains	3, 2B3, 4	Yes	Yes	Yes
295116							
Pope very fine sandy loam, rarely flooded	Raynham	2	---	2B3	Yes	No	No
295117							
Raynham silt loam	Raynham, poorly drained	50	Depressions	2B3	Yes	No	No
	Fluvaquents	2	Flood plains	4, 2B3	Yes	Yes	No

Table 4.--Hydric Soils--Continued

Map unit symbol and map unit name	Component	Percent of map unit	Landform	Hydric soils criteria			
				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
295118							
Red Hook sandy loam	Fluvaquents	2	Flood plains	2B3, 4	Yes	Yes	No
295122							
Scio silt loam, 2 to 6 percent slopes	Alden	5	Depressions	3, 2B3	Yes	No	Yes
	Raynham	5	---	2B3	Yes	No	No
295123							
Scriba loam, 0 to 3 percent slopes, stony	Neversink	5	Depressions	2B3, 3	Yes	No	Yes
295124							
Scriba loam, 3 to 8 percent slopes, stony	Neversink	5	Depressions	3, 2B3	Yes	No	Yes
295125							
Scriba and Morris loams, gently sloping, extremely stony	Neversink	5	Depressions	2B3, 3	Yes	No	Yes
	Alden	3	Depressions	2B3, 3	Yes	No	Yes
295126							
Suncook fine sandy loam	Fluvaquents	1	Flood plains	4, 2B3	Yes	Yes	No
295136							
Tuller-Rock outcrop complex, 1 to 5 percent slopes	Tuller, poorly drained	20	Benches, ridges, hills	2B3	Yes	No	No
	Alden	2	Depressions	3, 2B3	Yes	No	Yes
	Neversink	2	Depressions	2B3, 3	Yes	No	Yes
295143							
Udorthents, smoothed	Alden	5	Depressions	3, 2B3	Yes	No	Yes
295144							
Unadilla silt loam, 0 to 2 percent slopes	Raynham	3	---	2B3	Yes	No	No
295145							
Unadilla silt loam, 2 to 6 percent slopes	Raynham	3	---	2B3	Yes	No	No
295153							
Wayland silt loam	Wayland	85	Flood plains	2B3, 3, 4	Yes	Yes	Yes
	Unnamed soils	5	Marshes	3, 1, 4	No	Yes	Yes
	Fluvaquents	4	Flood plains	2B3, 4	Yes	Yes	No
296591							
Barbour loam	Holly	2	Depressions on flood plains, backswamps	2B3	Yes	No	No
296592							
Basher silt loam	Holly	5	Depressions on flood plains, backswamps	2B3	Yes	No	No
296593							
Fluvents and Fluvaquents, cobbly	Fluvaquents	20	Depressions	2B3, 4	Yes	Yes	No

Table 4.--Hydric Soils--Continued

Map unit symbol and map unit name	Component	Percent of map unit	Landform	Hydric soils criteria			
				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
296594							
Holly silt loam	Holly	95	Depressions on flood plains, backswamps	2B3	Yes	No	No
296595							
Linden fine sandy loam, rarely flooded	Holly	2	Depressions on flood plains, backswamps	4, 3, 2B3	Yes	Yes	Yes
296601							
Medihemists and Medifibrists	Medihemists	60	Bogs	4, 1, 3	No	Yes	Yes
	Medifibrists	30	Bogs	3, 4, 1	No	Yes	Yes
	Terric Haplohemists	10	Swamps	1, 3	No	No	Yes
296602							
Mardin channery loam, 3 to 8 percent slopes	Chippewa	8	Depressions	2B3	Yes	No	No
296603							
Mardin channery loam, 8 to 15 percent slopes	Chippewa	5	Depressions	2B3	Yes	No	No
296605							
Mardin channery loam, 3 to 8 percent slopes	Chippewa	8	Depressions	3, 2B3	Yes	No	Yes
296606							
Mardin channery loam, 8 to 25 percent slopes	Chippewa	2	Depressions	3, 2B3	Yes	No	Yes
296608							
Morris channery loam, 3 to 8 percent slopes	Norwich	20	Depressions	2B3	Yes	No	No
296609							
Morris channery loam, 8 to 15 percent slopes	Norwich	12	Depressions	2B3	Yes	No	No
296610							
Morris channery loam, 0 to 8 percent slopes	Norwich	20	Depressions	2B3	Yes	No	No
296611							
Morris channery loam, 8 to 15 percent slopes	Norwich	10	Swamps	2B3	Yes	No	No
296613							
Norwich and Chippewa channery silt loams 0 to 3 percent slopes	Norwich	63	Depressions	2B3	Yes	No	No
	Chippewa	33	Depressions	3, 2B3	Yes	No	Yes
296622							
Rexford loam	Rexford, poorly drained	45	Drainageways	2A	Yes	No	No

Table 4.--Hydric Soils--Continued

Map unit symbol and map unit name	Component	Percent of map unit	Landform	Hydric soils criteria			
				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
296630							
Volusia channery silt loam, 3 to 8 percent slopes	Chippewa	20	Depressions	2B3	Yes	No	No
296632							
Volusia channery silt loam, 0 to 8 percent slopes	Chippewa	20	Depressions	2B3, 3	Yes	No	Yes
296633							
Volusia channery silt loam, 8 to 15 percent slopes	Chippewa	10	Depressions	3, 2B3	Yes	No	Yes
296634							
Wellsboro channery loam, 3 to 8 percent slopes	Norwich	8	Depressions	2B3	Yes	No	No
296635							
Wellsboro channery loam, 8 to 15 percent slopes	Norwich	5	Depressions	2B3	Yes	No	No
296636							
Wellsboro channery loam, 15 to 25 percent slopes	Norwich	5	Depressions	2B3	Yes	No	
296637							
Wellsboro channery loam, 3 to 8 percent slopes	Norwich	8	Depressions	2B3	Yes	No	No
296638							
Wellsboro channery loam, 8 to 25 percent slopes	Norwich	3	Depressions	2B3	Yes	No	No
297185							
Edgemere-Shohola complex, 3 to 15 percent slopes, very rubbly	Edgemere	42	Depressions	2B3, 3	Yes	No	Yes
	Freetown	5	Swamps	1, 3	No	No	Yes
297186							
Edgemere extremely stony loam, 0 to 3 percent slopes, very rubbly	Edgemere	75	Depressions	2B3, 3	Yes	No	Yes
	Freetown	4	Swamps	3, 1	No	No	Yes
	Wyalusing	4	Flood plains	4, 2B2	Yes	Yes	No
297190							
Braceville fine sandy loam	Rexford, poorly drained	3	Outwash terraces	2B3	Yes	No	No
297191							
Wyalusing fine sandy loam	Wyalusing	85	Flood plains	2B2, 4	Yes	Yes	No

Table 4.--Hydric Soils--Continued

Map unit symbol and map unit name	Component	Percent of map unit	Landform	Hydric soils criteria			
				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
297192							
Pope fine sandy loam	Wyalusing	5	Flood plains	4, 2B2	Yes	Yes	No
297193							
Paupack mucky peat	Paupack	90	Swamps	1	No	No	No
	Edgemere	8	Depressions	2B3, 3	Yes	No	Yes
	Kimbles	2	Depressions	2B3	Yes	No	No
297194							
Morris very channery loam, 0 to 8 percent slopes, very stony	Edgemere	12	Depressions	3, 2B3	Yes	No	Yes
297196							
Freetown mucky peat	Freetown	94	Swamps	1, 3	No	No	Yes
	Gleneyre	6	Relict lakebeds	4, 3, 2B3	Yes	Yes	Yes
297207							
Wurtsboro channery fine sandy loam, 0 to 8 percent slopes, stony	Edgemere	3	Depressions	3, 2B3	Yes	No	Yes
297208							
Wurtsboro channery fine sandy loam, 8 to 15 percent slopes, stony	Edgemere	2	Depressions	3, 2B3	Yes	No	Yes
297209							
Philo loam	Wyalusing	2	Flood plains	4, 2B2	Yes	Yes	No
297211							
Wellsboro stony loam, 0 to 8 percent slopes, extremely stony	Edgemere	3	Depressions	3, 2B3	Yes	No	Yes
297212							
Wellsboro stony loam, 8 to 15 percent slopes, extremely stony	Edgemere	2	Depressions	2B3, 3	Yes	No	Yes
297215							
Wellsboro channery loam, 8 to 15 percent slopes, stony	Edgemere	2	Depressions	2B3, 3	Yes	No	Yes
297216							
Wurtsboro stony fine sandy loam, 0 to 8 percent slopes, extremely stony	Edgemere	3	Depressions	3, 2B3	Yes	No	Yes
297217							
Wurtsboro stony fine sandy loam, 8 to 15 percent slopes, extremely stony	Edgemere	1	Depressions	2B3, 3	Yes	No	Yes

Table 4.--Hydric Soils--Continued

Map unit symbol and map unit name	Component	Percent of map unit	Landform	Hydric soils criteria			
				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
297236							
Suncook loamy sand, 0 to 8 percent slopes	Wyalusing	4	Flood plains	4, 2B2	Yes	Yes	No
297239							
Mardin stony loam, 0 to 8 percent slopes, extremely stony	Edgemere	3	Depressions	2B3, 3	Yes	No	Yes
297240							
Mardin stony loam, 8 to 15 percent slopes, extremely stony	Edgemere	3	Depressions	3, 2B3	Yes	No	Yes
297242							
Shohola-Edgemere complex, 0 to 8 percent slopes, very rubbly	Edgemere	29	Depressions	3, 2B3	Yes	No	Yes
297243							
Shohola-Edgemere complex, 8 to 15 percent slopes, very rubbly	Edgemere	29	Depressions	2B3, 3	Yes	No	Yes
297253							
Craigsville-Wyoming complex, 0 to 8 percent slopes, extremely stony	Wyalusing	6	Flood plains	2B2, 4	Yes	Yes	No
309440							
Edgemere-Shohola complex, 3 to 15 percent slopes, very rubbly	Edgemere	42	Depressions	3, 2B3	Yes	No	Yes
	Freetown	5	Swamps	3, 1	No	No	Yes
319865							
Wellsboro stony loam, 0 to 8 percent slopes, extremely stony	Edgemere	3	Depressions	2B3, 3	Yes	No	Yes

Explanation of hydric criteria codes:

1. All Histels (except for Folistels), and Histosols (except for Folists), which are, by definition, saturated.
2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Historthels great group, Histoturbels great group, Pachic subgroups, or Cumulic subgroups that
   A. are somewhat poorly drained and have a water table at the surface (0.0 feet) during the growing season, or
   B. are poorly drained or very poorly drained and have either
      1.) a water table at the surface (0.0 feet) during the growing season if textures are coarse sand, sand, or fine sand in all layers within a depth of 20 inches, or
      2.) a water table at a depth of 0.5 foot or less during the growing season if permeability is equal to or greater than 6.0 in/hr in all layers within a depth of 20 inches, or
      3.) a water table at a depth of 1.0 foot or less during the growing season if permeability is less than 6.0 in/hr in any layer within a depth of 20 inches.
3. Soils that are frequently ponded for periods of long or very long duration during the growing season.
4. Soils that are frequently flooded for periods of long or very long duration during the growing season.

Table 5.--Landform and Parent Material

[Only major components are displayed. Miscellaneous nonsoil components may not be included. Components may not add up to 100 percent. MAP is the mean annual precipitation]

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
290457						
Barbour	85	0-3	249-1499	38-46	Flood plain	Loamy over sandy and gravelly alluvium derived mainly from areas of acid, reddish sandstone, siltstone, and shale
290461						
Bath	80	8-15	801-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from gray and brown siltstone, sandstone, and shale
290465						
Cadosia	75	15-35	1001-1801	38-46	Hill Valley side	Channery, loamy till and local colluvium derived from sandstone, siltstone, and shale
290466						
Cadosia	75	35-70	735-1801	38-46	Hill Valley side	Channery, loamy till and local colluvium derived from sandstone, siltstone, and shale
290468						
Chenango	85	3-8	600-1801	38-46	Terrace Valley train	Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from sandstone, shale, and siltstone
290483						
Fluvaquents	45	0-3	299-1801	38-46	Flood plain	Alluvium with highly variable texture
Udifluvents	35	0-3	98-2999	38-46	Flood plain	Alluvium with a wide range of texture

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
290484						
Halcott	25	2-15	1749-4101	38-46	Hill Mountain	A thin mantle of channery, loamy till derived from reddish sandstone, siltstone, and shale
Mongaup	25	2-15	1001-2001	38-46	Hill Mountain	Loamy till derived from sandstone, siltstone, and shale
Vly	25	2-15	1801-2402	38-46	Hill Mountain	Channery, loamy till that is derived mainly from reddish sandstone, siltstone, and shale
290485						
Halcott	25	15-35	1749-4101	38-46	Hill Mountain	A thin mantle of channery, loamy till derived from reddish sandstone, siltstone, and shale
Mongaup	25	15-35	1001-2001	38-46	Hill Mountain	Loamy till derived from sandstone, siltstone, and shale
Vly	25	15-35	1801-2402	38-46	Hill Mountain	Channery, loamy till that is derived mainly from reddish sandstone, siltstone, and shale
290487						
Lackawanna	80	3-8	1099-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale
290488						
Lackawanna	80	8-15	1099-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale
290489						
Lackawanna	80	15-25	1099-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
290490						
Lackawanna	80	25-40	1099-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale
290491						
Lackawanna	50	3-15	1099-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale
Bath	30	3-15	801-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from gray and brown siltstone, sandstone, and shale
290492						
Lackawanna	50	15-35	1099-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale
Bath	30	15-35	801-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from gray and brown siltstone, sandstone, and shale
290493						
Lackawanna	50	35-55	1099-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale
Bath	30	35-55	801-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from gray and brown siltstone, sandstone, and shale
290506						
Lordstown	80	2-8	751-1801	38-46	Bench Hill Ridge	Loamy till derived from sandstone and siltstone
290507						
Lordstown	80	8-15	751-1801	38-46	Bench Hill Ridge	Loamy till derived from sandstone and siltstone
290509						
Lordstown	80	25-40	751-1801	38-46	Bench Hill Ridge	Loamy till derived from sandstone and siltstone

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
290510						
Maplecrest	80	3-8	1201-1801	38-46	End moraine Lateral moraine Valley side	Loamy till dominated by material from reddish sandstone, siltstone, or shale
290511						
Maplecrest	80	8-15	1201-1801	38-46	End moraine Lateral moraine Valley side	Loamy till dominated by material from reddish sandstone, siltstone, or shale
290512						
Maplecrest	80	15-25	1201-1801	38-46	End moraine Lateral moraine Valley side	Loamy till dominated by material from reddish sandstone, siltstone, or shale
290514						
Mardin	80	3-8	801-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from acid sedimentary rock
290515						
Mardin	80	8-15	801-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from acid sedimentary rock
290519						
Mongaup	80	2-8	1749-2500	38-46	Hill Mountain	Loamy till derived from sandstone, siltstone, and shale
290522						
Morris	85	0-3	299-1699	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale
290523						
Morris	85	3-8	299-1699	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale
290525						
Morris	50	2-10	299-1699	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
290525						
Volusia	30	2-10	801-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from siltstone, sandstone, and shale or slate
290526						
Norchip	80	0-3	1749-2402	38-46	Depression	Loamy till derived mainly from sandstone, siltstone, and shale
290535						
Oquaga	80	2-8	600-1801	38-46	Bench Hill Ridge	Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
290536						
Oquaga	80	8-15	600-1801	38-46	Bench Hill Ridge	Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
290539						
Oquaga	80	35-50	600-1801	38-46	Bench Hill Ridge	Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
290540						
Arnot	25	2-15	1001-1801	38-46	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale
Lordstown	25	2-15	751-1801	38-46	Bench Hill Ridge	Loamy till derived from sandstone and siltstone
Oquaga	25	2-15	699-1801	38-46	Bench Hill Ridge	Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
290541						
Arnot	25	15-35	1001-1801	38-46	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
290541						
Lordstown	25	15-35	751-1801	38-46	Bench Hill Ridge	Loamy till derived from sandstone and siltstone
Oquaga	25	15-35	699-1801	38-46	Bench Hill Ridge	Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and
290542						
Arnot	25	35-70	1001-1801	38-46	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale
Lordstown	25	35-70	751-1801	38-46	Bench Hill Ridge	Loamy till derived from sandstone and siltstone
Oquaga	25	35-70	699-1801	38-46	Bench Hill Ridge	Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
290544						
Pits, gravel	85	0-3	None assigned	38-46	None assigned	None assigned
290546						
Raypol	80	0-3	None assigned	38-46	Flood plain	Loamy over sandy and gravelly glaciofluvial deposits derived mainly from acid sedimentary rocks
290547						
Red Hook	80	0-3	None assigned	38-46	Terrace Valley train	Loamy glaciofluvial deposits
290548						
Riverhead	85	0-3	None assigned	38-46	Proglacial delta Terrace	Loamy glaciofluvial deposits overlying stratified sand and gravel
290549						
Riverhead	85	3-8	None assigned	38-46	Proglacial delta Terrace	Loamy glaciofluvial deposits overlying stratified sand and gravel
290555						
Gretor	40	0-6	1749-2500	38-46	Hill Mountain	Loamy till derived from sandstone, siltstone, and shale

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
290555						
Torull	40	0-6	1699-2402	38-46	Bench Depression	Loamy till derived mainly from sandstone, siltstone, and shale
290556						
Tunkhannock	85	0-3	801-1801	38-46	Terrace Valley train	Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale
290562						
Tunkhannock	50	3-8	801-1801	38-46	Terrace Valley train	Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale
Chenango	30	3-8	299-1499	38-46	Terrace Valley train	Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from sandstone, shale, and siltstone
290563						
Udorthents	80	0-15	None assigned	38-46	None assigned	None assigned
290565						
Unadilla	80	0-3	98-1401	38-46	Proglacial lake plain	Glaciolacustrine deposits, eolian deposits, or old alluvium, comprised mainly of silt and very fine sand
290567						
Valois	80	3-8	600-1601	38-46	End moraine Lateral moraine Valley side	Loamy till derived mainly from sandstone, siltstone, and shale

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
290568						
Valois	80	8-15	600-1749	38-46	End moraine Lateral moraine Valley side	Loamy till derived mainly from sandstone, siltstone, and shale
290569						
Valois	80	15-25	600-1601	38-46	End moraine Lateral moraine Valley side	Loamy till derived mainly from sandstone, siltstone, and shale
290570						
Valois	80	25-60	600-1601	38-46	End moraine Lateral moraine Valley side	Loamy till derived mainly from sandstone, siltstone, and shale
290576						
Volusia	85	3-8	801-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from siltstone, sandstone, and shale or slate
290578						
Wellsboro	80	3-8	1099-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from reddish sandstone, siltstone, and shale
290579						
Wellsboro	80	8-15	1099-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from reddish sandstone, siltstone, and shale
290581						
Wellsboro	50	2-15	1099-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from reddish sandstone, siltstone, and shale
Mardin	30	2-15	801-1801	38-46	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from acid sedimentary rock
290582						
Wenonah	85	0-3	200-1499	38-46	Flood plain	Loamy alluvium derived from glacial drift containing mainly sandstone, siltstone, and shale

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
290592						
Carlisle	45	0-2	249-1001	38-46	Marsh Swamp	Deep organic material
Palms	40	0-2	249-1499	38-46	Marsh Swamp	Organic material over loamy glacial drift
293892						
Alden, extremely stony	75	0-3	None assigned	42-52	Depression	A silty mantle of local deposition overlying loamy till
293895						
Arnot	50	8-15	1001-1801	42-52	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale
Lordstown	35	8-15	751-1801	42-52	Bench Hill Ridge	Loamy till derived from sandstone and siltstone
293896						
Arnot	60	15-25	1001-1801	42-52	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale
Lordstown	30	15-25	751-1801	42-52	Bench Hill Ridge	Loamy till derived from sandstone and siltstone
293897						
Arnot	65	35-50	1001-1801	42-52	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale
Lordstown	25	35-50	751-1801	42-52	Bench Hill Ridge	Loamy till derived from sandstone and siltstone
293921						
Erie, extremely stony	80	3-8	None assigned	42-52	Drumlinoid ridge Hill Till plain	Loamy till derived from siltstone, sandstone, shale, and limestone
293929						
Hoosic	80	3-8	98-1099	42-52	Proglacial delta Outwash plain Terrace	Sandy and gravelly glaciofluvial deposits
293930						
Hoosic	80	8-15	98-1099	42-52	Proglacial delta Outwash plain Terrace	Sandy and gravelly glaciofluvial deposits

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
293931						
Hoosic	80	15-25	98-1099	42-52	Proglacial delta Outwash plain Terrace	Sandy and gravelly glaciofluvial deposits
293932						
Lordstown	80	3-8	751-1801	42-52	Bench Hill Ridge	Loamy till derived from sandstone and siltstone
293939						
Middlebury	80	0-3	None assigned	42-52	Flood plain	Loamy alluvium predominantly from areas of shale and sandstone with some lime-bearing material
293943						
Otisville	80	0-8	None assigned	42-52	Proglacial delta Outwash plain Terrace	Sandy and gravelly glaciofluvial deposits
293944						
Otisville	80	8-15	None assigned	42-52	Proglacial delta Outwash plain Terrace	Sandy and gravelly glaciofluvial deposits
293945						
Otisville	80	15-25	None assigned	42-52	Proglacial delta Outwash plain Terrace	Sandy and gravelly glaciofluvial deposits
293946						
Hoosic	40	25-35	98-1099	42-52	Proglacial delta Outwash plain Terrace	Sandy and gravelly glaciofluvial deposits
Otisville	40	25-35	None assigned	42-52	Proglacial delta Outwash plain Terrace	Sandy and gravelly glaciofluvial deposits
293949						
Pits, gravel	75	None assigned	None assigned	42-52	None assigned	None assigned
293961						
Rock outcrop	50	8-15	None assigned	42-52	None assigned	None assigned
Arnot	35	8-15	1001-1801	42-52	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
293962						
Rock outcrop	50	15-25	None assigned	42-52	None assigned	None assigned
Arnot	40	15-25	1001-1801	42-52	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale
293963						
Rock outcrop	60	35-45	None assigned	42-52	None assigned	None assigned
Arnot	30	35-45	1001-1801	42-52	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale
293975						
Suncook	80	0-2	None assigned	42-52	Flood plain	Sandy alluvium derived mainly from varying amounts of sandstone, conglomerate, granite, gneiss, and quartzite
293979						
Mardin	40	8-15	801-1801	42-52	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from acid sedimentary rock
Swartswood, very stony	40	8-15	600-1801	42-52	Hill Till plain	Loamy till derived mainly from quartzite, conglomerate, and sandstone
293980						
Mardin	40	15-35	801-1801	42-52	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from acid sedimentary rock
Swartswood, very stony	40	15-35	600-1801	42-52	Hill Till plain	Loamy till derived mainly from quartzite, conglomerate, and sandstone
293981						
Swartswood, very stony	40	35-45	600-1801	42-52	Hill Till plain	Loamy till derived mainly from quartzite, conglomerate, and sandstone

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
293981						
Mardin	35	35-45	801-1801	42-52	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from acid sedimentary rock
293983						
Udifluvents, frequently flooded	45	0-5	98-2999	42-52	Flood plain	Alluvium with a wide range of texture
Fluvaquents	30	0-3	299-1801	42-52	Flood plain	Alluvium with highly variable texture
295043						
Alden	80	0-3	299-1499	41-51	Depression	A silty mantle of local deposition overlying loamy till
295044						
Arnot	40	0-15	1001-1801	41-51	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale
Lordstown	40	0-15	751-1801	41-51	Bench Hill Ridge	Loamy till derived from sandstone and siltstone
295045						
Arnot	40	15-35	1001-1801	41-51	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale
Lordstown	40	15-35	751-1801	41-51	Bench Hill Ridge	Loamy till derived from sandstone and siltstone
295046						
Arnot	45	0-15	1001-1801	41-51	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale
Oquaga	40	0-15	600-1801	41-51	Bench Hill Ridge	Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
295047						
Arnot	50	15-35	1001-1801	41-51	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
295047						
Oquaga	35	15-35	600-1801	41-51	Bench Hill Ridge	Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
295048						
Arnot	60	0-15	1001-1801	41-51	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale
Rock outcrop	25	0-15	None assigned	41-51	None assigned	None assigned
295049						
Arnot	55	15-35	1001-1801	41-51	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale
Rock outcrop	30	15-35	None assigned	41-51	None assigned	None assigned
295050						
Arnot	45	35-70	1001-1801	41-51	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale
Rock outcrop	40	35-70	None assigned	41-51	None assigned	None assigned
295051						
Barbour	85	0-3	249-1499	41-51	Flood plain	Loamy over sandy and gravelly alluvium derived mainly from areas of acid, reddish sandstone, siltstone, and shale
295052						
Bash	85	0-3	None assigned	41-51	Flood plain	Loamy alluvium derived from acid, reddish sandstone, siltstone, and shale
295053						
Carlisle	85	0-2	249-1001	41-51	Marsh Swamp	Deep organic material
295054						
Alden, ponded	25	0-3	299-1499	41-51	Depression	A silty mantle of local deposition overlying loamy till

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
295054						
Carlisle, ponded	25	0-2	249-1001	41-51	Marsh Swamp	Deep organic material
Palms, ponded	25	0-2	249-1499	41-51	Depression	Organic material over loamy glacial drift
295055						
Chenango	85	0-3	600-1801	41-51	Terrace Valley train	Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from sandstone, shale, and siltstone
295056						
Chenango	85	3-8	600-1801	41-51	Terrace Valley train	Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from sandstone, shale, and siltstone
295057						
Chenango	85	8-15	600-1801	41-51	Terrace Valley train	Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from sandstone, shale, and siltstone
295059						
Cheshire, stony	85	3-8	None assigned	41-51	Hill Till plain	Loamy till derived mostly from reddish sandstone, shale, and conglomerate
295060						
Cheshire, stony	85	8-15	None assigned	41-51	Hill Till plain	Loamy till derived mostly from reddish sandstone, shale, and conglomerate
295061						
Cheshire, stony	85	15-25	None assigned	41-51	Hill Till plain	Loamy till derived mostly from reddish sandstone, shale, and conglomerate

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
295062						
Cheshire, stony----	85	25-35	None assigned	41-51	Hill Till plain	Loamy till derived mostly from reddish sandstone, shale, and conglomerate
295063						
Cheshire, stony----	85	35-60	None assigned	41-51	Hill Till plain	Loamy till derived mostly from reddish sandstone, shale, and conglomerate
295069						
Fluvaquents--------	45	0-3	299-1801	41-51	Flood plain	Alluvium with highly variable texture
Udifluvents, frequently flooded	40	0-5	98-2999	41-51	Flood plain	Alluvium with a wide range of texture
295074						
Lackawanna---------	80	3-8	1099-1801	41-51	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale
295075						
Lackawanna---------	85	8-15	1099-1801	41-51	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale
295076						
Lackawanna---------	85	15-25	1099-1801	41-51	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale
295082						
Lordstown, stony---	85	3-8	751-1801	41-51	Bench Hill Ridge	Loamy till derived from sandstone and siltstone
295083						
Lordstown, very stony----------	55	8-15	751-1801	41-51	Bench Hill Ridge	Loamy till derived from sandstone and siltstone
Arnot, very stony--	25	8-15	None assigned	41-51	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
295092						
Morris	85	0-3	600-1801	41-51	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale
295093						
Morris	85	3-8	600-1801	41-51	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale
295094						
Morris	85	8-15	600-1801	41-51	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale
295095						
Neversink	80	0-3	None assigned	41-51	Depression	Acid, loamy till derived from sandstone, siltstone, and shale
295101						
Oquaga	85	3-8	600-1801	41-51	Bench Hill Ridge	Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
295102						
Oquaga	50	8-15	600-1801	41-51	Bench Hill Ridge	Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
Arnot	35	8-15	1001-1801	41-51	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale
295103						
Oquaga	50	15-25	600-1801	41-51	Bench Hill Ridge	Channery, loamy till with lithology dominated by reddish sandstone, siltstone, and shale
Arnot	35	15-25	1001-1801	41-51	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
295105 Otisville	85	0-3	None assigned	41-51	Proglacial delta Outwash plain Terrace	Sandy and gravelly glaciofluvial deposits
295106 Otisville	85	3-8	None assigned	41-51	Proglacial delta Outwash plain Terrace	Sandy and gravelly glaciofluvial deposits
295107 Otisville	85	8-15	None assigned	41-51	Proglacial delta Outwash plain Terrace	Sandy and gravelly glaciofluvial deposits
295109 Palms	85	0-2	249-1499	41-51	Marsh Swamp	Organic material over loamy glacial drift
295110 Philo	85	0-3	600-2999	41-51	Flood plain	Loamy alluvium over stratified sand and gravel
295111 Pits, gravel	80	0-50	None assigned	41-51	None assigned	None assigned
295112 Pits, quarry	80	0-70	None assigned	41-51	None assigned	None assigned
295113 Pompton	85	0-3	None assigned	41-51	Terrace Valley train	Loamy over sandy and gravelly glaciofluvial deposits
295114 Pompton	85	3-8	None assigned	41-51	Terrace Valley train	Loamy over sandy and gravelly glaciofluvial deposits
295115 Pope, occasionally flooded	85	0-3	None assigned	41-51	Flood plain	Loamy alluvium derived from acid sandstone, siltstone, and shale
295116 Pope, rarely flooded	85	0-3	None assigned	41-51	Flood plain	Loamy alluvium derived from acid sandstone, siltstone, and shale

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
295117 Raynham, poorly drained	50	0-3	49-499	41-51	Depression	Glaciolacustrine, eolian, or old alluvial deposits, comprised mainly of silt and very fine sand
Raynham, somewhat poorly drained	30	0-3	49-499	41-51	Depression	Glaciolacustrine, eolian, or old alluvial deposits, comprised mainly of silt and very fine sand
295118 Red Hook	80	0-3	None assigned	41-51	Terrace Valley train	Loamy glaciofluvial deposits
295119 Riverhead	85	0-3	None assigned	41-51	Proglacial delta Terrace	Loamy glaciofluvial deposits overlying stratified sand and gravel
295120 Riverhead	85	3-8	None assigned	41-51	Proglacial delta Terrace	Loamy glaciofluvial deposits overlying stratified sand and gravel
295121 Riverhead	85	8-15	None assigned	41-51	Proglacial delta Terrace	Loamy glaciofluvial deposits overlying stratified sand and gravel
295122 Scio	80	2-6	98-1001	41-51	Proglacial lake plain	Glaciolacustrine deposits, eolian deposits, or old alluvium, comprised mainly of silt and very fine sand
295123 Scriba, stony	80	0-3	None assigned	41-51	Drumlin Till plain	Loamy till dominated by sandstone, with lesser amounts of limestone and shale
295124 Scriba, stony	75	3-8	None assigned	41-51	Drumlin Till plain	Loamy till dominated by sandstone, with lesser amounts of limestone and shale

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
295125						
Morris, extremely stony	40	2-8	600-1801	41-51	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale
Scriba, extremely stony	40	2-8	None assigned	41-51	Drumlin Till plain	Loamy till dominated by sandstone, with lesser amounts of limestone and shale
295126						
Suncook	80	0-2	None assigned	41-51	Flood plain	Sandy alluvium derived mainly from varying amounts of sandstone, conglomerate, granite, gneiss, and quartzite
295129						
Swartswood	85	3-8	1001-1801	41-51	Hill Till plain	Loamy till derived mainly from quartzite, conglomerate, and sandstone
295130						
Swartswood	85	8-15	1001-1801	41-51	Hill Till plain	Loamy till derived mainly from quartzite, conglomerate, and sandstone
295131						
Swartswood	85	15-25	1001-1801	41-51	Hill Till plain	Loamy till derived mainly from quartzite, conglomerate, and sandstone
295132						
Lackawanna, stony	40	25-35	1099-1801	41-51	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale
Swartswood, stony	40	25-35	1001-1801	41-51	Hill Till plain	Loamy till derived mainly from quartzite, conglomerate, and sandstone
295133						
Lackawanna, very stony	40	15-35	1099-1801	41-51	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
295133						
Swartswood, very stony	40	15-35	1001-1801	41-51	Hill Till plain	Loamy till derived mainly from quartzite, conglomerate, and sandstone
295134						
Lackawanna, very stony	40	35-50	1099-1801	41-51	Drumlinoid ridge Hill Till plain	Loamy till derived from reddish sandstone, siltstone, and shale
Swartswood, very stony	40	35-50	1001-1801	41-51	Hill Till plain	Loamy till derived mainly from quartzite, conglomerate, and sandstone
295136						
Tuller, somewhat poorly drained	40	1-5	600-1801	41-51	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale
Rock outcrop	20	1-5	None assigned	41-51	None assigned	None assigned
Tuller, poorly drained	20	1-5	600-1801	41-51	Bench Hill Ridge	Loamy till derived mainly from acid sandstone, siltstone, and shale
295137						
Tunkhannock	85	0-3	699-2001	41-51	Terrace Valley train	Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale
295138						
Tunkhannock	85	3-8	699-2001	41-51	Terrace Valley train	Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
295139						
Tunkhannock	85	8-15	699-2001	41-51	Terrace Valley train	Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale
295140						
Tunkhannock	85	15-25	699-2001	41-51	Terrace Valley train	Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale
295141						
Tunkhannock	45	25-35	699-2001	41-51	Terrace Valley train	Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale
Otisville	40	25-35	None assigned	41-51	Proglacial delta Outwash plain Terrace	Sandy and gravelly glaciofluvial deposits
295142						
Tunkhannock	45	35-50	699-2001	41-51	Terrace Valley train	Gravelly, loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale
Otisville	40	35-50	None assigned	41-51	Proglacial delta Outwash plain Terrace	Sandy and gravelly glaciofluvial deposits
295143						
Udorthents	75	0-15	None assigned	41-51	None assigned	None assigned

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
295144						
Unadilla	85	0-2	600-1801	41-51	Proglacial lake plain	Glaciolacustrine deposits, eolian deposits, or old alluvium, comprised mainly of silt and very fine sand
295145						
Unadilla	85	2-6	600-1801	41-51	Proglacial lake plain	Glaciolacustrine deposits, eolian deposits, or old alluvium, comprised mainly of silt and very fine sand
295146						
Valois	80	3-8	600-1749	41-51	End moraine Lateral moraine Valley side	Loamy till derived mainly from sandstone, siltstone, and shale
295147						
Valois	80	8-15	600-1749	41-51	End moraine Lateral moraine Valley side	Loamy till derived mainly from sandstone, siltstone, and shale
295148						
Valois	80	15-25	600-1749	41-51	End moraine Lateral moraine Valley side	Loamy till derived mainly from sandstone, siltstone, and shale
295149						
Valois	80	25-35	600-1749	41-51	End moraine Lateral moraine Valley side	Loamy till derived mainly from sandstone, siltstone, and shale
295150						
Valois	80	35-50	600-1749	41-51	End moraine Lateral moraine Valley side	Loamy till derived mainly from sandstone, siltstone, and shale
295153						
Wayland	85	0-3	200-1499	41-51	Flood plain	Silty and clayey alluvium washed from uplands that contain some calcareous drift

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
295154						
Wellsboro----------	85	0-3	1099-1801	41-51	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from reddish sandstone, siltstone, and shale
295155						
Wellsboro----------	85	3-8	1099-1801	41-51	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from reddish sandstone, siltstone, and shale
295156						
Wellsboro----------	85	8-15	1099-1801	41-51	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from reddish sandstone, siltstone, and shale
295157						
Wellsboro, extremely stony---	40	0-15	1099-1801	41-51	Drumlinoid ridge Hill Till plain	Loamy till derived mainly from reddish sandstone, siltstone, and shale
Wurtsboro, extremely stony---	40	0-15	None assigned	41-51	Hill Till plain	Loamy till derived mainly from acid quartzite, conglomerate, and sandstone
295162						
Wurtsboro, stony---	85	0-3	1001-1801	41-51	Hill Till plain	Loamy till derived mainly from acid quartzite, conglomerate, and sandstone
295163						
Wurtsboro, stony---	85	3-8	1001-1801	41-51	Hill Till plain	Loamy till derived mainly from acid quartzite, conglomerate, and sandstone
295164						
Wurtsboro, stony---	85	8-15	1001-1801	41-51	Hill Till plain	Loamy till derived mainly from acid quartzite, conglomerate, and sandstone
296588						
Arnot---------------	90	3-8	1001-1801	35-45	Valley side	Till derived from sandstone, siltstone, and shale

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
296589						
Arnot	90	8-15	1001-1801	35-45	Valley side	Till derived from sandstone, siltstone, and shale
296590						
Arnot	95	15-25	1001-1801	35-45	Valley side	Till derived from sandstone, siltstone, and shale
296591						
Barbour	70	0-3	None assigned	34-51	Flood plain	Reddish alluvium derived from sedimentary rock
296592						
Basher	87	0-3	400-801	32-45	Flood plain	Reddish alluvium derived from sedimentary rock
296593						
Fluvents	70	0-3	200-1001	35-45	Flood-plain step	None assigned
Fluvaquents	20	0-3	None assigned	34-51	Depression	None assigned
296594						
Holly	95	0-3	801-840	30-40	Backswamp Depression on flood plain	Loamy alluvium derived from sandstone and hale
296595						
Linden	85	0-3	200-1001	32-45	Flood plain	Alluvium derived from sedimentary rock
296596						
Lordstown	94	3-8	751-1801	32-50	Hill	None assigned
296599						
Lordstown	80	3-8	751-1801	32-50	Hill	None assigned
296600						
Lordstown	90	8-25	751-1801	32-50	Hill	None assigned
296601						
Medihemists	60	0-3	None assigned	34-51	Bog	Organic material
Medifibrists	30	0-3	None assigned	34-51	Bog	Slightly decomposed organic material
296602						
Mardin	90	3-8	801-1801	30-40	Hill	Loamy till
296603						
Mardin	90	8-15	801-1801	30-40	Hill	Loamy till
296604						
Mardin	90	15-25	801-1801	30-40	Hill	Loamy till

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
296605						
Mardin	90	3-8	801-1801	30-40	Hill	Loamy till
296606						
Mardin	85	8-25	801-1801	30-40	Hill	Loamy till
296608						
Morris	75	3-8	600-1801	32-50	Till plain	None assigned
296609						
Morris	80	8-18	600-1801	32-50	Till plain	None assigned
296610						
Morris	75	0-8	600-1801	32-50	Till plain	None assigned
296611						
Morris	90	8-15	600-1801	32-50	Till plain	Reddish ablation till derived from sandstone and siltstone
296613						
Norwich	63	0-3	None assigned	34-51	Depression	None assigned
Chippewa	33	0-3	801-1801	30-45	None assigned	None assigned
296614						
Oquaga	85	3-8	600-1801	35-50	Hillslope	None assigned
296615						
Oquaga	85	8-15	600-1801	35-50	Hillslope	None assigned
296616						
Oquaga	85	15-25	600-1801	35-50	Hillslope	None assigned
296617						
Oquaga	85	3-8	699-1801	35-50	Hillslope	None assigned
296618						
Oquaga	85	8-25	699-1801	35-50	Hillslope	None assigned
296619						
Oquaga	45	25-70	699-1801	35-50	Hillslope	None assigned
Lordstown	20	25-70	751-1801	32-50	Hill	None assigned
296621						
Quarries	100	None assigned	None assigned	34-51	None assigned	None assigned
296622						
Rexford, poorly drained	45	0-3	None assigned	34-51	Drainageway	Coarse-loamy outwash derived from sandstone and shale
Rexford, somewhat poorly drained	40	0-3	None assigned	34-51	Drainageway	Coarse-loamy outwash derived from sandstone and shale

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
296623						
Rock outcrop	70	3-25	None assigned	34-51	None assigned	None assigned
Arnot	20	3-25	1001-1801	35-45	Valley side	Till derived from sandstone, siltstone, and shale
296625						
Swartswood	90	8-15	1001-1801	40-46	Hill	Coarse-loamy till derived from sandstone
296628						
Swartswood	90	8-25	600-1801	38-46	Hill	Coarse-loamy till derived from sandstone
296630						
Volusia	75	3-8	801-1801	30-40	Hill	None assigned
296632						
Volusia	75	0-8	801-1801	30-40	Valley side	None assigned
296633						
Volusia	90	8-15	801-1801	30-40	Valley side	Fine-loamy basal till derived from sandstone and siltstone
296634						
Wellsboro	80	3-8	1099-1801	32-50	Valley side	None assigned
296635						
Wellsboro	85	8-15	1099-1801	32-50	Valley side	None assigned
296636						
Wellsboro		8-15	1099-1801	32-50	Valley side	None assigned
296637						
Wellsboro	80	3-8	1099-1801	32-50	Valley side	None assigned
296638						
Wellsboro	85	8-25	1099-1801	32-50	Valley side	None assigned
296639						
Wellsboro	70	25-50	1099-1801	32-50	Valley side	Reddish ablation till derived from sandstone and siltstone
Mardin	20	25-50	801-1801	30-40	Hill	Loamy till
296640						
Wyoming	85	3-8	400-1801	42-50	Terrace	None assigned
296641						
Wyoming	85	8-15	400-1801	42-50	Terrace	None assigned
296642						
Wyoming	85	15-25	400-1801	42-50	Terrace	None assigned

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
296643						
Wyoming	90	25-45	400-1801	42-50	Terrace	None assigned
296644						
Water	100	None assigned	None assigned	34-51	None assigned	None assigned
297185						
Edgemere	42	3-8	600-1299	35-50	Depression	None assigned
Shohola	42	3-15	600-1299	40-46	None assigned	None assigned
297186						
Edgemere	75	0-3	600-1299	35-50	Depression	None assigned
297188						
Manlius	40	15-30	200-1801	30-50	Valley side	Channery till derived from shale
Arnot	35	15-30	None assigned	34-51	Valley side	None assigned
Rock outcrop	15	15-30	None assigned	34-51	None assigned	None assigned
297189						
Manlius	40	30-80	200-1801	30-50	Valley side	Channery till derived from shale
Arnot	35	30-80	None assigned	34-51	Valley side	None assigned
Rock outcrop	15	30-80	None assigned	34-51	None assigned	None assigned
297190						
Braceville	82	0-3	400-899	44-47	Outwash terrace	None assigned
297191						
Wyalusing	85	0-3	400-801	30-50	Flood plain	Coarse-loamy alluvium over sandy and gravelly alluvium
297192						
Pope	95	0-3	None assigned	34-51	Flood plain	Acid alluvium derived from sedimentary rock
297193						
Paupack	90	0-2	801-2001	42-47	Swamp	Woody organic material over gravelly alluvium
297194						
Morris	82	0-8	600-1801	32-50	Till plain	Reddish ablation till derived from sandstone and siltstone
297196						
Freetown	94	0-1	None assigned	34-51	Swamp	Highly decomposed organic material

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
297199						
Oquaga	78	0-8	699-1801	35-50	Hillslope	Reddish ablation till derived from sandstone and siltstone
297200						
Oquaga	78	8-15	699-1801	35-50	Hillslope	Reddish ablation till derived from sandstone and siltstone
297201						
Oquaga	75	15-30	699-1801	35-50	Hillslope	Reddish ablation till derived from sandstone and siltstone
297202						
Oquaga	40	20-60	699-1801	35-50	Hillslope	Reddish ablation till derived from sandstone and siltstone
Arnot	30	20-60	None assigned	34-51	Valley side	Till derived from sandstone, siltstone, and shale
Rock outcrop	20	20-60	None assigned	34-51	None assigned	None assigned
297203						
Delaware	93	0-3	400-600	35-50	Low to middle river terrace	Postglacial alluvium derived from sandstone and shale
297204						
Delaware	82	3-8	400-600	35-50	Low to middle river terrace	Postglacial alluvium derived from sandstone and shale
297205						
Delaware	80	8-20	400-600	35-50	Low to middle river terrace	Postglacial alluvium derived from sandstone and shale
297207						
Wurtsboro	92	0-8	1001-1801	40-46	Hill	Coarse-loamy till derived from sandstone
297208						
Wurtsboro	92	8-15	1001-1801	40-46	Hill	Coarse-loamy till derived from sandstone

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
297209						
Philo	85	0-3	600-1401	35-50	Flood plain	Coarse-loamy alluvium derived from sandstone and siltstone
297210						
Barbour	85	0-3	None assigned	34-51	Flood plain	None assigned
297211						
Wellsboro	89	0-8	1099-1801	32-50	Valley side	Reddish ablation till derived from sandstone and siltstone
297212						
Wellsboro	89	8-15	1099-1801	32-50	Valley side	Reddish ablation till derived from sandstone and siltstone
297213						
Wellsboro	82	15-25	1099-1801	32-50	Valley side	Reddish ablation till derived from sandstone and siltstone
297215						
Wellsboro	91	8-15	1099-1801	32-50	Valley side	Reddish ablation till derived from sandstone and siltstone
297216						
Wurtsboro	92	0-8	None assigned	34-51	Hill	Coarse-loamy till derived from sandstone
297217						
Wurtsboro	88	8-15	None assigned	34-51	Hill	Coarse-loamy till derived from sandstone
297218						
Wurtsboro	88	15-25	None assigned	34-51	Hill	Coarse-loamy till derived from sandstone
297221						
Lackawanna	81	3-8	1099-1801	32-50	Glaciated hillslope Ridge	Reddish ablation till derived from sandstone and siltstone
297223						
Lackawanna	75	15-30	1099-1801	32-50	Glaciated hillslope Ridge	Reddish ablation till derived from sandstone and siltstone

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
297224						
Swartswood	95	0-8	1001-1801	40-46	Hill	Coarse-loamy till derived from sandstone
297225						
Swartswood	95	8-15	1001-1801	40-46	Hill	Coarse-loamy till derived from sandstone
297226						
Swartswood	90	15-30	1001-1801	40-46	Hill	Coarse-loamy till derived from sandstone
297227						
Arnot	88	3-15	1001-1801	35-45	Valley side	None assigned
297228						
Arnot	85	15-35	1001-1801	35-45	Valley side	None assigned
297229						
Wyoming	90	3-8	400-1801	42-50	Terrace	None assigned
297230						
Wyoming	90	8-15	400-1801	42-50	Terrace	None assigned
297231						
Wyoming	90	15-30	400-1801	42-50	Terrace	None assigned
297236						
Suncook	91	0-8	None assigned	34-51	Flood plain	Sandy glaciofluvial deposits derived from sandstone
297239						
Mardin	85	0-8	801-1801	30-40	Hill	Loamy till
297240						
Mardin	85	8-15	801-1801	30-40	Hill	Loamy till
297241						
Unadilla	90	0-3	400-600	42-50	Outwash terrace	Outwash
297242						
Shohola	62	0-8	600-1299	40-46	None assigned	None assigned
Edgemere	29	0-8	600-1299	35-50	Depression	None assigned
297243						
Shohola	62	8-15	600-1299	40-46	None assigned	None assigned
Edgemere	29	8-15	600-1299	35-50	Depression	None assigned
297244						
Lordstown	40	0-8	751-1801	32-50	Hill	None assigned
Swartswood	35	0-8	1001-1801	40-46	Hill	Coarse-loamy till derived from sandstone

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
297245						
Lordstown	40	8-15	751-1801	32-50	Hill	None assigned
Swartswood	35	8-15	1001-1801	40-46	Hill	Coarse-loamy till derived from sandstone
297246						
Lordstown	40	15-30	751-1801	32-50	Hill	None assigned
Swartswood	35	15-30	1001-1801	40-46	Hill	Coarse-loamy till derived from sandstone
297247						
Chenango	86	0-8	400-1099	38-42	Glacial outwash terrace	None assigned
297248						
Chenango	85	8-15	400-1099	38-42	Glacial outwash terrace	None assigned
297249						
Chenango	90	15-25	400-1099	38-42	Glacial outwash terrace	None assigned
297250						
Lordstown	94	3-8	751-1801	32-50	Hill	None assigned
297251						
Lordstown	86	8-15	751-1801	32-50	Hill	None assigned
297253						
Craigsville	50	0-5	899-3501	36-46	Flood plain	None assigned
Wyoming	40	0-8	400-1801	42-50	Terrace	None assigned
297254						
Pits, shale	40	0-40	None assigned	36-46	None assigned	None assigned
Pits, gravel	40	0-40	None assigned	36-46	None assigned	None assigned
309440						
Edgemere	42	3-8	600-1299	35-50	Depression	None assigned
Shohola	42	3-15	600-1299	40-46	None assigned	None assigned
319863						
Oquaga	40	20-60	699-1801	35-50	Hillslope	Reddish ablation till derived from sandstone and siltstone
Arnot	30	20-60	None assigned	34-51	Valley side	Till derived from sandstone, siltstone, and shale

Table 5.--Landscape, Landform, and Parent Material--Continued

Map unit symbol and soil name	Percent of map unit	Slope	Elevation	MAP	Landform	Parent material
	Pct	*Pct*	*Ft*	*In*		
319863						
Rock outcrop	20	20-60	None assigned	34-51	None assigned	None assigned
319865						
Wellsboro	89	0-8	1099-1801	32-50	Valley side	Reddish ablation till derived from sandstone and siltstone
741008						
Oquaga	78	0-8	699-1801	35-50	Hillslope	Reddish ablation till derived from sandstone and siltstone

Table 6a.--Land Management, Part I (Planting)

[Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table]

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290457							
Barbour	85	Well suited		Well suited		Severe	
						Low strength	1.00
290461							
Bath	80	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
				Rock fragments	0.50		
290465							
Cadosia	75	Moderately suited		Poorly suited		Slight	
		Rock fragments	0.50	Slope	0.75	Strength	0.10
				Rock fragments	0.75		
290466							
Cadosia	75	Moderately suited		Unsuited		Slight	
		Slope	0.50	Slope	1.00	Strength	0.10
		Rock fragments	0.50	Rock fragments	0.75		
290468							
Chenango	85	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
				Slope	0.50		
290483							
Fluvaquents	45	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
Udifluvents	35	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
290484							
Halcott	25	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
				Slope	0.50		
Mongaup	25	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
				Slope	0.50		
Vly	25	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
				Slope	0.50		
290485							
Halcott	25	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50		
Mongaup	25	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50		

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290485							
Vly	25	Well suited		Poorly suited		Severe	
				Slope	0.75	Low strength	1.00
				Rock fragments	0.50		
290487							
Lackawanna	80	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
				Rock fragments	0.50		
290488							
Lackawanna	80	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
				Rock fragments	0.50		
290489							
Lackawanna	80	Well suited		Poorly suited		Severe	
				Slope	0.75	Low strength	1.00
				Rock fragments	0.50		
290490							
Lackawanna	80	Well suited		Unsuited		Severe	
				Slope	1.00	Low strength	1.00
				Rock fragments	0.50		
290491							
Lackawanna	50	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
				Slope	0.50		
Bath	30	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
				Slope	0.50		
290492							
Lackawanna	50	Well suited		Poorly suited		Severe	
				Slope	0.75	Low strength	1.00
				Rock fragments	0.50		
Bath	30	Well suited		Poorly suited		Severe	
				Slope	0.75	Low strength	1.00
				Rock fragments	0.50		
290493							
Lackawanna	50	Moderately suited		Unsuited		Severe	
		Slope	0.50	Slope	1.00	Low strength	1.00
				Rock fragments	0.50		
Bath	30	Moderately suited		Unsuited		Severe	
		Slope	0.50	Slope	1.00	Low strength	1.00
				Rock fragments	0.50		
290506							
Lordstown	80	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
290507							
Lordstown	80	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290509							
Lordstown	80	Well suited		Unsuited		Severe	
				Slope	1.00	Low strength	1.00
290510							
Maplecrest	80	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
290511							
Maplecrest	80	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
290512							
Maplecrest	80	Well suited		Poorly suited		Severe	
				Slope	0.75	Low strength	1.00
290514							
Mardin	80	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
				Rock fragments	0.50		
290515							
Mardin	80	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
				Rock fragments	0.50		
290519							
Mongaup	80	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
				Rock fragments	0.50		
290522							
Morris	85	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
290523							
Morris	85	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
				Rock fragments	0.50		
290525							
Morris	50	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
				Slope	0.50		
Volusia	30	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
				Slope	0.50		
290526							
Norchip	80	Well suited		Well suited		Severe	
						Low strength	1.00
290535							
Oquaga	80	Well suited		Moderately suited		Slight	
				Rock fragments	0.50	Strength	0.10
				Slope	0.50		

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290536							
Oquaga	80	Well suited		Moderately suited		Slight	
				Rock fragments	0.50	Strength	0.10
				Slope	0.50		
290539							
Oquaga	80	Moderately suited		Unsuited		Slight	
		Slope	0.50	Slope	1.00	Strength	0.10
				Rock fragments	0.50		
290540							
Oquaga	25	Well suited		Moderately suited		Slight	
				Rock fragments	0.50	Strength	0.10
				Slope	0.50		
Lordstown	25	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
				Slope	0.50		
Arnot	25	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
				Slope	0.50		
290541							
Oquaga	25	Well suited		Poorly suited		Slight	
				Slope	0.75	Strength	0.10
				Rock fragments	0.50		
Lordstown	25	Well suited		Poorly suited		Severe	
				Slope	0.75	Low strength	1.00
				Rock fragments	0.50		
Arnot	25	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50		
290542							
Oquaga	25	Moderately suited		Unsuited		Slight	
		Slope	0.50	Slope	1.00	Strength	0.10
				Rock fragments	0.50		
Lordstown	25	Moderately suited		Unsuited		Severe	
		Slope	0.50	Slope	1.00	Low strength	1.00
				Rock fragments	0.50		
Arnot	25	Moderately suited		Unsuited		Moderate	
		Slope	0.50	Slope	1.00	Low strength	0.50
				Rock fragments	0.50		
290544							
Pits, gravel	85	Not rated		Not rated		Not rated	
290546							
Raypol	80	Well suited		Well suited		Severe	
						Low strength	1.00
290547							
Red Hook	80	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290548							
Riverhead	85	Well suited		Well suited		Severe	
						Low strength	1.00
290549							
Riverhead	85	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
290555							
Torull	40	Well suited		Well suited		Severe	
						Low strength	1.00
Gretor	40	Well suited		Well suited		Severe	
						Low strength	1.00
290556							
Tunkhannock	85	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
290562							
Tunkhannock	50	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
				Slope	0.50		
Chenango	30	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
				Slope	0.50		
290563							
Udorthents	80	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
				Slope	0.50		
290565							
Unadilla	80	Well suited		Well suited		Severe	
						Low strength	1.00
290567							
Valois	80	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
290568							
Valois	80	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
290569							
Valois	80	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
290570							
Valois	80	Moderately suited		Unsuited		Moderate	
		Slope	0.50	Slope	1.00	Low strength	0.50
290576							
Volusia	85	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
290578							
Wellsboro	80	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290579							
Wellsboro	80	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
290581							
Wellsboro	50	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
				Slope	0.50		
Mardin	30	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
				Slope	0.50		
290582							
Wenonah	85	Well suited		Well suited		Severe	
						Low strength	1.00
290592							
Carlisle	45	Well suited		Well suited		Severe	
						Low strength	1.00
Palms	40	Well suited		Well suited		Severe	
						Low strength	1.00
293892							
Alden, extremely stony	75	Moderately suited		Poorly suited		Severe	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	1.00
293895							
Arnot	50	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
				Rock fragments	0.50		
Lordstown	35	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
293896							
Arnot	60	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50		
Lordstown	30	Well suited		Poorly suited		Severe	
				Slope	0.75	Low strength	1.00
293897							
Arnot	65	Moderately suited		Unsuited		Moderate	
		Slope	0.50	Slope	1.00	Low strength	0.50
				Rock fragments	0.50		
Lordstown	25	Moderately suited		Unsuited		Severe	
		Slope	0.50	Slope	1.00	Low strength	1.00
293921							
Erie, extremely stony	80	Moderately suited		Poorly suited		Severe	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	1.00
				Slope	0.50		

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293929							
Hoosic	80	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
				Rock fragments	0.50		
293930							
Hoosic	80	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
				Rock fragments	0.50		
293931							
Hoosic	80	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50		
293932							
Lordstown	80	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
293939							
Middlebury	80	Well suited		Well suited		Severe	
						Low strength	1.00
293943							
Otisville	80	Moderately suited		Moderately suited		Moderate	
		Sandiness	0.50	Sandiness	0.50	Low strength	0.50
				Rock fragments	0.50		
293944							
Otisville	80	Moderately suited		Moderately suited		Moderate	
		Sandiness	0.50	Slope	0.50	Low strength	0.50
				Sandiness	0.50		
				Rock fragments	0.50		
293945							
Otisville	80	Moderately suited		Poorly suited		Moderate	
		Sandiness	0.50	Slope	0.75	Low strength	0.50
				Sandiness	0.50		
				Rock fragments	0.50		
293946							
Otisville	40	Moderately suited		Unsuited		Moderate	
		Sandiness	0.50	Slope	1.00	Low strength	0.50
				Sandiness	0.50		
				Rock fragments	0.50		
Hoosic	40	Well suited		Unsuited		Moderate	
				Slope	1.00	Low strength	0.50
				Rock fragments	0.50		
293949							
Pits, gravel	75	Not rated		Not rated		Not rated	
293961							
Rock outcrop	50	Not rated		Not rated		Not rated	
Arnot	35	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
				Rock fragments	0.50		

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293962							
Rock outcrop	50	Not rated		Not rated		Not rated	
Arnot	40	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50		
293963							
Rock outcrop	60	Not rated		Not rated		Not rated	
Arnot	30	Moderately suited		Unsuited		Moderate	
		Slope	0.50	Slope	1.00	Low strength	0.50
				Rock fragments	0.50		
293975							
Suncook	80	Well suited		Well suited		Moderate	
						Low strength	0.50
293979							
Swartswood, very stony	40	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
				Rock fragments	0.50		
Mardin	40	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
				Rock fragments	0.50		
293980							
Swartswood, very stony	40	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50		
Mardin	40	Well suited		Poorly suited		Severe	
				Slope	0.75	Low strength	1.00
				Rock fragments	0.50		
293981							
Swartswood, very stony	40	Moderately suited		Unsuited		Moderate	
		Slope	0.50	Slope	1.00	Low strength	0.50
				Rock fragments	0.50		
Mardin	35	Moderately suited		Unsuited		Severe	
		Slope	0.50	Slope	1.00	Low strength	1.00
				Rock fragments	0.50		
293983							
Udifluvents, frequently flooded	45	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
Fluvaquents	30	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
295043							
Alden	80	Well suited		Well suited		Severe	
						Low strength	1.00

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295044							
Arnot	40	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
				Slope	0.50		
Lordstown	40	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
295045							
Arnot	40	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50		
Lordstown	40	Well suited		Poorly suited		Severe	
				Slope	0.75	Low strength	1.00
295046							
Arnot	45	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
				Slope	0.50		
Oquaga	40	Well suited		Moderately suited		Slight	
				Rock fragments	0.50	Strength	0.10
				Slope	0.50		
295047							
Arnot	50	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50		
Oquaga	35	Well suited		Poorly suited		Slight	
				Slope	0.75	Strength	0.10
				Rock fragments	0.50		
295048							
Arnot	60	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
				Slope	0.50		
Rock outcrop	25	Not rated		Not rated		Not rated	
295049							
Arnot	55	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50		
Rock outcrop	30	Not rated		Not rated		Not rated	
295050							
Arnot	45	Moderately suited		Unsuited		Moderate	
		Slope	0.50	Slope	1.00	Low strength	0.50
				Rock fragments	0.50		
Rock outcrop	40	Not rated		Not rated		Not rated	
295051							
Barbour	85	Well suited		Well suited		Severe	
						Low strength	1.00

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295052							
Bash	85	Well suited		Well suited		Severe	
						Low strength	1.00
295053							
Carlisle	85	Moderately suited		Moderately suited		Severe	
		Sandiness	0.50	Sandiness	0.50	Low strength	1.00
295054							
Carlisle, ponded	25	Poorly suited		Poorly suited		Severe	
		Wetness	0.75	Wetness	0.75	Low strength	1.00
		Sandiness	0.50	Sandiness	0.50		
Palms, ponded	25	Poorly suited		Poorly suited		Severe	
		Wetness	0.75	Wetness	0.75	Low strength	1.00
		Sandiness	0.50	Sandiness	0.50		
Alden, ponded	25	Poorly suited		Poorly suited		Severe	
		Wetness	0.75	Wetness	0.75	Low strength	1.00
295055							
Chenango	85	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
295056							
Chenango	85	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
				Slope	0.50		
295057							
Chenango	85	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
				Slope	0.50		
295059							
Cheshire, stony	85	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
				Rock fragments	0.50		
295060							
Cheshire, stony	85	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
				Rock fragments	0.50		
295061							
Cheshire, stony	85	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50		
295062							
Cheshire, stony	85	Well suited		Unsuited		Moderate	
				Slope	1.00	Low strength	0.50
				Rock fragments	0.50		
295063							
Cheshire, stony	85	Moderately suited		Unsuited		Moderate	
		Slope	0.50	Slope	1.00	Low strength	0.50
				Rock fragments	0.50		

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295069							
Fluvaquents	45	Well suited		Moderately suited Rock fragments	0.50	Severe Low strength	1.00
Udifluvents, frequently flooded	40	Well suited		Moderately suited Rock fragments	0.50	Moderate Low strength	0.50
295074							
Lackawanna	80	Well suited		Moderately suited Slope	0.50	Moderate Low strength	0.50
295075							
Lackawanna	85	Well suited		Moderately suited Slope	0.50	Moderate Low strength	0.50
295076							
Lackawanna	85	Well suited		Poorly suited Slope	0.75	Moderate Low strength	0.50
295082							
Lordstown, stony	85	Well suited		Moderately suited Slope	0.50	Severe Low strength	1.00
295083							
Lordstown, very stony	55	Well suited		Moderately suited Slope Rock fragments	0.50 0.50	Severe Low strength	1.00
Arnot, very stony	25	Well suited		Moderately suited Rock fragments Slope	0.50 0.50	Moderate Low strength	0.50
295092							
Morris	85	Well suited		Well suited		Severe Low strength	1.00
295093							
Morris	85	Well suited		Moderately suited Slope	0.50	Severe Low strength	1.00
295094							
Morris	85	Well suited		Moderately suited Slope	0.50	Severe Low strength	1.00
295095							
Neversink	80	Well suited		Well suited		Severe Low strength	1.00
295101							
Oquaga	85	Well suited		Moderately suited Rock fragments Slope	0.50 0.50	Slight Strength	0.10
295102							
Oquaga	50	Well suited		Moderately suited Rock fragments Slope	0.50 0.50	Slight Strength	0.10

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295102							
Arnot	35	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
				Slope	0.50		
295103							
Oquaga	50	Well suited		Poorly suited		Slight	
				Slope	0.75	Strength	0.10
				Rock fragments	0.50		
Arnot	35	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50		
295105							
Otisville	85	Moderately suited		Poorly suited		Moderate	
		Sandiness	0.50	Rock fragments	0.75	Low strength	0.50
		Rock fragments	0.50	Sandiness	0.50		
295106							
Otisville	85	Moderately suited		Poorly suited		Moderate	
		Sandiness	0.50	Rock fragments	0.75	Low strength	0.50
		Rock fragments	0.50	Sandiness	0.50		
				Slope	0.50		
295107							
Otisville	85	Moderately suited		Poorly suited		Moderate	
		Sandiness	0.50	Rock fragments	0.75	Low strength	0.50
		Rock fragments	0.50	Slope	0.50		
				Sandiness	0.50		
295109							
Palms	85	Moderately suited		Moderately suited		Severe	
		Sandiness	0.50	Sandiness	0.50	Low strength	1.00
295110							
Philo	85	Well suited		Well suited		Severe	
						Low strength	1.00
295111							
Pits, gravel	80	Not rated		Not rated		Not rated	
295112							
Pits, quarry	80	Not rated		Not rated		Not rated	
295113							
Pompton	85	Well suited		Well suited		Moderate	
						Low strength	0.50
295114							
Pompton	85	Well suited		Well suited		Moderate	
						Low strength	0.50
295115							
Pope, occasionally flooded	85	Well suited		Well suited		Severe	
						Low strength	1.00
295116							
Pope, rarely flooded	85	Well suited		Well suited		Severe	
						Low strength	1.00

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295117							
Raynham, poorly drained	50	Well suited		Well suited		Severe Low strength	 1.00
Raynham, somewhat poorly drained	30	Well suited		Well suited		Severe Low strength	 1.00
295118							
Red Hook	80	Well suited		Well suited		Moderate Low strength	 0.50
295119							
Riverhead	85	Well suited		Well suited		Moderate Low strength	 0.50
295120							
Riverhead	85	Well suited		Moderately suited Slope	 0.50	Moderate Low strength	 0.50
295121							
Riverhead	85	Well suited		Moderately suited Slope	 0.50	Moderate Low strength	 0.50
295122							
Scio	80	Well suited		Well suited		Severe Low strength	 1.00
295123							
Scriba, stony	80	Well suited		Well suited		Severe Low strength	 1.00
295124							
Scriba, stony	75	Well suited		Moderately suited Slope	 0.50	Severe Low strength	 1.00
295125							
Scriba, extremely stony	40	Moderately suited Rock fragments	 0.50	Poorly suited Rock fragments Slope	 0.75 0.50	Severe Low strength	 1.00
Morris, extremely stony	40	Moderately suited Rock fragments	 0.50	Poorly suited Rock fragments Slope	 0.75 0.50	Severe Low strength	 1.00
295126							
Suncook	80	Well suited		Well suited		Moderate Low strength	 0.50
295129							
Swartswood	85	Well suited		Moderately suited Slope Rock fragments	 0.50 0.50	Moderate Low strength	 0.50
295130							
Swartswood	85	Well suited		Moderately suited Slope Rock fragments	 0.50 0.50	Moderate Low strength	 0.50

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295131							
Swartswood	85	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50		
295132							
Swartswood, stony	40	Well suited		Unsuited		Moderate	
				Slope	1.00	Low strength	0.50
				Rock fragments	0.50		
Lackawanna, stony	40	Well suited		Unsuited		Moderate	
				Slope	1.00	Low strength	0.50
295133							
Swartswood, very stony	40	Well suited		Unsuited		Moderate	
				Slope	1.00	Low strength	0.50
				Rock fragments	0.50		
Lackawanna, very stony	40	Well suited		Unsuited		Moderate	
				Slope	1.00	Low strength	0.50
				Rock fragments	0.50		
295134							
Swartswood, very stony	40	Moderately suited		Unsuited		Moderate	
		Slope	0.50	Slope	1.00	Low strength	0.50
				Rock fragments	0.50		
Lackawanna, very stony	40	Moderately suited		Unsuited		Moderate	
		Slope	0.50	Slope	1.00	Low strength	0.50
				Rock fragments	0.50		
295136							
Tuller, somewhat poorly drained	40	Unsuited		Unsuited		Severe	
		Restrictive layer	1.00	Restrictive layer	1.00	Low strength	1.00
				Rock fragments	0.50		
Tuller, poorly drained	20	Unsuited		Unsuited		Severe	
		Restrictive layer	1.00	Restrictive layer	1.00	Low strength	1.00
				Rock fragments	0.50		
Rock outcrop	20	Not rated		Not rated		Not rated	
295137							
Tunkhannock	85	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
295138							
Tunkhannock	85	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
				Slope	0.50		
295139							
Tunkhannock	85	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
				Slope	0.50		

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295140							
Tunkhannock	85	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50		
295141							
Tunkhannock	45	Well suited		Unsuited		Moderate	
				Slope	1.00	Low strength	0.50
				Rock fragments	0.50		
Otisville	40	Moderately suited		Unsuited		Moderate	
		Sandiness	0.50	Slope	1.00	Low strength	0.50
		Rock fragments	0.50	Rock fragments	0.75		
				Sandiness	0.50		
295142							
Tunkhannock	45	Moderately suited		Unsuited		Moderate	
		Slope	0.50	Slope	1.00	Low strength	0.50
				Rock fragments	0.50		
Otisville	40	Moderately suited		Unsuited		Moderate	
		Slope	0.50	Slope	1.00	Low strength	0.50
		Sandiness	0.50	Rock fragments	0.75		
		Rock fragments	0.50	Sandiness	0.50		
295143							
Udorthents	75	Not rated		Not rated		Not rated	
295144							
Unadilla	85	Well suited		Well suited		Severe	
						Low strength	1.00
295145							
Unadilla	85	Well suited		Well suited		Severe	
						Low strength	1.00
295146							
Valois	80	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
295147							
Valois	80	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
295148							
Valois	80	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
295149							
Valois	80	Well suited		Unsuited		Moderate	
				Slope	1.00	Low strength	0.50
295150							
Valois	80	Moderately suited		Unsuited		Moderate	
		Slope	0.50	Slope	1.00	Low strength	0.50
295153							
Wayland	85	Well suited		Well suited		Severe	
						Low strength	1.00

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295154							
Wellsboro	85	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
295155							
Wellsboro	85	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
				Rock fragments	0.50		
295156							
Wellsboro	85	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
				Rock fragments	0.50		
295157							
Wellsboro, extremely stony	40	Moderately suited		Poorly suited		Moderate	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	0.50
				Slope	0.50		
Wurtsboro, extremely stony	40	Moderately suited		Poorly suited		Severe	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	1.00
				Slope	0.50		
295162							
Wurtsboro, stony	85	Well suited		Well suited		Severe	
						Low strength	1.00
295163							
Wurtsboro, stony	85	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
295164							
Wurtsboro, stony	85	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
296588							
Arnot	90	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
				Slope	0.50		
296589							
Arnot	90	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
				Slope	0.50		
296590							
Arnot	95	Well suited		Poorly suited		Severe	
				Slope	0.75	Low strength	1.00
				Rock fragments	0.50		
296591							
Barbour	70	Well suited		Well suited		Moderate	
						Low strength	0.50
296592							
Basher	87	Well suited		Well suited		Severe	
						Low strength	1.00

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296593							
Fluvents	70	Well suited		Well suited		Moderate	
						Low strength	0.50
Fluvaquents	20	Well suited		Well suited		Severe	
						Low strength	1.00
296594							
Holly	95	Well suited		Well suited		Severe	
						Low strength	1.00
296595							
Linden	85	Well suited		Well suited		Severe	
						Low strength	1.00
296596							
Lordstown	94	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
				Rock fragments	0.50		
296599							
Lordstown	80	Moderately suited		Poorly suited		Severe	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	1.00
				Slope	0.50		
296600							
Lordstown	90	Moderately suited		Poorly suited		Severe	
		Rock fragments	0.50	Slope	0.75	Low strength	1.00
				Rock fragments	0.75		
296601							
Medihemists	60	Moderately suited		Moderately suited		Severe	
		Sandiness	0.50	Sandiness	0.50	Low strength	1.00
Medifibrists	30	Moderately suited		Moderately suited		Slight	
		Sandiness	0.50	Sandiness	0.50		
296602							
Mardin	90	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
				Slope	0.50		
296603							
Mardin	90	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
				Slope	0.50		
296604							
Mardin	90	Well suited		Poorly suited		Severe	
				Slope	0.75	Low strength	1.00
				Rock fragments	0.50		
296605							
Mardin	90	Moderately suited		Poorly suited		Severe	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	1.00
				Slope	0.50		
296606							
Mardin	85	Moderately suited		Poorly suited		Severe	
		Rock fragments	0.50	Slope	0.75	Low strength	1.00
				Rock fragments	0.75		

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296608							
Morris	75	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
296609							
Morris	80	Well suited		Moderately suited		Severe	
				Slope	0.50	Low strength	1.00
296610							
Morris	75	Moderately suited		Poorly suited		Severe	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	1.00
296611							
Morris	90	Moderately suited		Poorly suited		Severe	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	1.00
				Slope	0.50		
296613							
Norwich	63	Moderately suited		Poorly suited		Severe	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	1.00
Chippewa	33	Moderately suited		Poorly suited		Moderate	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	0.50
296614							
Oquaga	85	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
				Slope	0.50		
296615							
Oquaga	85	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
				Rock fragments	0.50		
296616							
Oquaga	85	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50		
296617							
Oquaga	85	Moderately suited		Poorly suited		Moderate	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	0.50
				Slope	0.50		
296618							
Oquaga	85	Moderately suited		Poorly suited		Moderate	
		Rock fragments	0.50	Slope	0.75	Low strength	0.50
				Rock fragments	0.75		
296619							
Oquaga	45	Moderately suited		Unsuited		Moderate	
		Rock fragments	0.50	Slope	1.00	Low strength	0.50
		Slope	0.50	Rock fragments	0.75		
Lordstown	20	Moderately suited		Unsuited		Severe	
		Rock fragments	0.50	Slope	1.00	Low strength	1.00
		Slope	0.50	Rock fragments	0.75		
296621							
Quarries	100	Not rated		Not rated		Not rated	

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296622							
Rexford, poorly drained	45	Well suited		Well suited		Severe Low strength	1.00
Rexford, somewhat poorly drained	40	Well suited		Well suited		Severe Low strength	1.00
296623							
Rock outcrop	70	Not rated		Not rated		Not rated	
Arnot	20	Well suited		Moderately suited Rock fragments Slope	0.50 0.50	Slight Strength	0.10
296625							
Swartswood	90	Well suited		Moderately suited Slope Rock fragments	0.50 0.50	Moderate Low strength	0.50
296628							
Swartswood	90	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Moderate Low strength	0.50
296630							
Volusia	75	Well suited		Moderately suited Slope Rock fragments	0.50 0.50	Severe Low strength	1.00
296632							
Volusia	75	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments	0.75	Severe Low strength	1.00
296633							
Volusia	90	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments Slope	0.75 0.50	Severe Low strength	1.00
296634							
Wellsboro	80	Well suited		Moderately suited Rock fragments Slope	0.50 0.50	Severe Low strength	1.00
296635							
Wellsboro	85	Well suited		Moderately suited Rock fragments Slope	0.50 0.50	Severe Low strength	1.00
296636							
Wellsboro		Well suited		Moderately suited Rock fragments Slope	0.50 0.50	Severe Low strength	1.00
296637							
Wellsboro	80	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments Slope	0.75 0.50	Severe Low strength	1.00

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296638							
Wellsboro	85	Moderately suited		Poorly suited		Severe	
		Rock fragments	0.50	Slope	0.75	Low strength	1.00
				Rock fragments	0.75		
296639							
Wellsboro	70	Moderately suited		Unsuited		Severe	
		Rock fragments	0.50	Slope	1.00	Low strength	1.00
		Slope	0.50	Rock fragments	0.75		
Mardin	20	Moderately suited		Unsuited		Severe	
		Rock fragments	0.50	Slope	1.00	Low strength	1.00
		Slope	0.50	Rock fragments	0.75		
296640							
Wyoming	85	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
				Rock fragments	0.50		
296641							
Wyoming	85	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
				Rock fragments	0.50		
296642							
Wyoming	85	Well suited		Poorly suited		Moderate	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50		
296643							
Wyoming	90	Moderately suited		Unsuited		Moderate	
		Slope	0.50	Slope	1.00	Low strength	0.50
				Rock fragments	0.50		
296644							
Water	100	Not rated		Not rated		Not rated	
297185							
Edgemere	42	Unsuited		Unsuited		Moderate	
		Rock fragments	1.00	Rock fragments	1.00	Low strength	0.50
				Slope	0.50		
Shohola	42	Unsuited		Unsuited		Moderate	
		Rock fragments	1.00	Rock fragments	1.00	Low strength	0.50
				Slope	0.50		
297186							
Edgemere	75	Unsuited		Unsuited		Moderate	
		Rock fragments	1.00	Rock fragments	1.00	Low strength	0.50
297188							
Manlius	40	Poorly suited		Unsuited		Slight	
		Rock fragments	0.75	Rock fragments	1.00	Strength	0.10
				Slope	0.75		
Arnot	35	Poorly suited		Unsuited		Severe	
		Rock fragments	0.75	Rock fragments	1.00	Low strength	1.00
				Slope	0.75		
Rock outcrop	15	Not rated		Not rated		Not rated	

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297189							
Manlius	40	Poorly suited		Unsuited		Slight	
		Rock fragments	0.75	Slope	1.00	Strength	0.10
		Slope	0.50	Rock fragments	1.00		
Arnot	35	Poorly suited		Unsuited		Severe	
		Rock fragments	0.75	Slope	1.00	Low strength	1.00
		Slope	0.50	Rock fragments	1.00		
Rock outcrop	15	Not rated		Not rated		Not rated	
297190							
Braceville	82	Well suited		Well suited		Moderate	
						Low strength	0.50
297191							
Wyalusing	85	Well suited		Well suited		Severe	
						Low strength	1.00
297192							
Pope	95	Well suited		Well suited		Moderate	
						Low strength	0.50
297193							
Paupack	90	Poorly suited		Poorly suited		Moderate	
		Wetness	0.75	Wetness	0.75	Wetness	0.50
		Sandiness	0.50	Sandiness	0.50	Low strength	0.50
297194							
Morris	82	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
297196							
Freetown	94	Poorly suited		Poorly suited		Moderate	
		Wetness	0.75	Wetness	0.75	Wetness	0.50
		Sandiness	0.50	Sandiness	0.50		
297199							
Oquaga	78	Moderately suited		Poorly suited		Moderate	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	0.50
297200							
Oquaga	78	Moderately suited		Poorly suited		Moderate	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	0.50
				Slope	0.50		
297201							
Oquaga	75	Moderately suited		Poorly suited		Moderate	
		Rock fragments	0.50	Slope	0.75	Low strength	0.50
				Rock fragments	0.75		
297202							
Oquaga	40	Moderately suited		Unsuited		Moderate	
		Rock fragments	0.50	Slope	1.00	Low strength	0.50
		Slope	0.50	Rock fragments	0.75		
Arnot	30	Moderately suited		Unsuited		Slight	
		Rock fragments	0.50	Slope	1.00	Strength	0.10
		Slope	0.50	Rock fragments	0.75		
Rock outcrop	20	Not rated		Not rated		Not rated	

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297203							
Delaware	93	Well suited		Well suited		Severe	
						Low strength	1.00
297204							
Delaware	82	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
297205							
Delaware	80	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
297207							
Wurtsboro	92	Well suited		Moderately suited		Moderate	
				Rock fragments	0.50	Low strength	0.50
297208							
Wurtsboro	92	Well suited		Moderately suited		Moderate	
				Slope	0.50	Low strength	0.50
				Rock fragments	0.50		
297209							
Philo	85	Well suited		Well suited		Severe	
						Low strength	1.00
297210							
Barbour	85	Well suited		Well suited		Severe	
						Low strength	1.00
297211							
Wellsboro	89	Moderately suited		Poorly suited		Slight	
		Rock fragments	0.50	Rock fragments	0.75	Strength	0.10
297212							
Wellsboro	89	Moderately suited		Poorly suited		Slight	
		Rock fragments	0.50	Rock fragments	0.75	Strength	0.10
				Slope	0.50		
297213							
Wellsboro	82	Moderately suited		Poorly suited		Slight	
		Rock fragments	0.50	Rock fragments	0.75	Strength	0.10
				Slope	0.75		
297215							
Wellsboro	91	Well suited		Moderately suited		Slight	
				Slope	0.50	Strength	0.10
				Rock fragments	0.50		
297216							
Wurtsboro	92	Moderately suited		Poorly suited		Moderate	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	0.50
297217							
Wurtsboro	88	Moderately suited		Poorly suited		Moderate	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	0.50
				Slope	0.50		
297218							
Wurtsboro	88	Moderately suited		Poorly suited		Moderate	
		Rock fragments	0.50	Slope	0.75	Low strength	0.50
				Rock fragments	0.75		

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297221							
Lackawanna	81	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments Slope	0.75 0.50	Severe Low strength	1.00
297223							
Lackawanna	75	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Severe Low strength	1.00
297224							
Swartswood	95	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments	0.75	Moderate Low strength	0.50
297225							
Swartswood	95	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments Slope	0.75 0.50	Moderate Low strength	0.50
297226							
Swartswood	90	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Moderate Low strength	0.50
297227							
Arnot	88	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments Slope	0.75 0.50	Slight Strength	0.10
297228							
Arnot	85	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Slight Strength	0.10
297229							
Wyoming	90	Well suited		Moderately suited Rock fragments Slope	0.50 0.50	Moderate Low strength	0.50
297230							
Wyoming	90	Well suited		Moderately suited Rock fragments Slope	0.50 0.50	Moderate Low strength	0.50
297231							
Wyoming	90	Well suited		Poorly suited Slope Rock fragments	0.75 0.50	Moderate Low strength	0.50
297236							
Suncook	91	Well suited		Well suited		Moderate Low strength	0.50
297239							
Mardin	85	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments	0.75	Moderate Low strength	0.50
297240							
Mardin	85	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments Slope	0.75 0.50	Moderate Low strength	0.50

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297241							
Unadilla	90	Well suited		Well suited		Severe Low strength	1.00
297242							
Shohola	62	Unsuited Rock fragments	1.00	Unsuited Rock fragments	1.00	Moderate Low strength	0.50
Edgemere	29	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments	0.75	Moderate Low strength	0.50
297243							
Shohola	62	Unsuited Rock fragments	1.00	Unsuited Rock fragments Slope	1.00 0.50	Moderate Low strength	0.50
Edgemere	29	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments Slope	0.75 0.50	Moderate Low strength	0.50
297244							
Lordstown	40	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments	0.75	Severe Low strength	1.00
Swartswood	35	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments	0.75	Moderate Low strength	0.50
297245							
Lordstown	40	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments Slope	0.75 0.50	Severe Low strength	1.00
Swartswood	35	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments Slope	0.75 0.50	Moderate Low strength	0.50
297246							
Lordstown	40	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Severe Low strength	1.00
Swartswood	35	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Moderate Low strength	0.50
297247							
Chenango	86	Well suited		Moderately suited Rock fragments	0.50	Moderate Low strength	0.50
297248							
Chenango	85	Well suited		Moderately suited Slope Rock fragments	0.50 0.50	Moderate Low strength	0.50
297249							
Chenango	90	Well suited		Poorly suited Slope Rock fragments	0.75 0.50	Moderate Low strength	0.50

Table 6a.--Land Management, Part I (Planting)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297250							
Lordstown	94	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
				Slope	0.50		
297251							
Lordstown	86	Well suited		Moderately suited		Severe	
				Rock fragments	0.50	Low strength	1.00
				Slope	0.50		
297253							
Craigsville	50	Moderately suited		Poorly suited		Moderate	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	0.50
Wyoming	40	Moderately suited		Poorly suited		Moderate	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	0.50
297254							
Pits, shale	40	Not rated		Not rated		Not rated	
Pits, gravel	40	Not rated		Not rated		Not rated	
309440							
Edgemere	42	Unsuited		Unsuited		Moderate	
		Rock fragments	1.00	Rock fragments	1.00	Low strength	0.50
				Slope	0.50		
Shohola	42	Unsuited		Unsuited		Moderate	
		Rock fragments	1.00	Rock fragments	1.00	Low strength	0.50
				Slope	0.50		
319863							
Oquaga	40	Moderately suited		Unsuited		Moderate	
		Rock fragments	0.50	Slope	1.00	Low strength	0.50
		Slope	0.50	Rock fragments	0.75		
Arnot	30	Moderately suited		Unsuited		Slight	
		Rock fragments	0.50	Slope	1.00	Strength	0.10
		Slope	0.50	Rock fragments	0.75		
Rock outcrop	20	Not rated		Not rated		Not rated	
319865							
Wellsboro	89	Moderately suited		Poorly suited		Slight	
		Rock fragments	0.50	Rock fragments	0.75	Strength	0.10
741008							
Oquaga	78	Moderately suited		Poorly suited		Moderate	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)

[Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table]

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290457							
Barbour	85	Slight		Slight		Moderately suited	
						Low strength	0.50
290461							
Bath	80	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Low strength	0.50
						Wetness	0.50
290465							
Cadosia	75	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Rock fragments	0.50
						Sandiness	0.50
290466							
Cadosia	75	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Rock fragments	0.50
						Sandiness	0.50
290468							
Chenango	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Low strength	0.50
						Slope	0.50
290483							
Fluvaquents	45	Slight		Slight		Poorly suited	
						Ponding	1.00
						Flooding	1.00
						Wetness	1.00
Udifluvents	35	Slight		Slight		Poorly suited	
						Flooding	1.00
290484							
Halcott	25	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
Mongaup	25	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
Vly	25	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Low strength	0.50
290485							
Halcott	25	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
Mongaup	25	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290485							
Vly	25	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
290487							
Lackawanna	80	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Low strength	0.50
						Slope	0.50
						Wetness	0.50
						Stickiness; high plasticity index	0.50
290488							
Lackawanna	80	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Low strength	0.50
						Wetness	0.50
						Stickiness; high plasticity index	0.50
290489							
Lackawanna	80	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
						Wetness	0.50
						Stickiness; high plasticity index	0.50
290490							
Lackawanna	80	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
						Wetness	0.50
						Stickiness; high plasticity index	0.50
290491							
Lackawanna	50	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Low strength	0.50
						Wetness	0.50
						Stickiness; high plasticity index	0.50
Bath	30	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Low strength	0.50
						Wetness	0.50
290492							
Lackawanna	50	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
						Wetness	0.50
						Stickiness; high plasticity index	0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290492							
Bath	30	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
						Wetness	0.50
290493							
Lackawanna	50	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
						Wetness	0.50
						Stickiness; high plasticity index	0.50
Bath	30	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
						Wetness	0.50
290506							
Lordstown	80	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Low strength	0.50
290507							
Lordstown	80	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Low strength	0.50
290509							
Lordstown	80	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
290510							
Maplecrest	80	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Low strength	0.50
						Slope	0.50
290511							
Maplecrest	80	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Low strength	0.50
290512							
Maplecrest	80	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
290514							
Mardin	80	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Low strength	0.50
						Wetness	0.50
						Slope	0.50
290515							
Mardin	80	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Low strength	0.50
						Wetness	0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290519							
Mongaup	80	Slight		Moderate		Well suited	
				Slope/erodibility	0.50		
290522							
Morris	85	Slight		Slight		Poorly suited	
						Wetness	1.00
						Low strength	0.50
290523							
Morris	85	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Wetness	1.00
						Low strength	0.50
						Slope	0.50
290525							
Morris	50	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Wetness	1.00
						Low strength	0.50
						Slope	0.50
Volusia	30	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Wetness	1.00
						Low strength	0.50
						Slope	0.50
290526							
Norchip	80	Slight		Slight		Poorly suited	
						Wetness	1.00
						Low strength	0.50
290535							
Oquaga	80	Slight		Moderate		Well suited	
				Slope/erodibility	0.50		
290536							
Oquaga	80	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
290539							
Oquaga	80	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
290540							
Oquaga	25	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
Lordstown	25	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Low strength	0.50
Arnot	25	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
290541							
Oquaga	25	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
Lordstown	25	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290541							
Arnot	25	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
290542							
Oquaga	25	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
Lordstown	25	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
Arnot	25	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
290544							
Pits, gravel	85	Not rated		Not rated		Not rated	
290546							
Raypol	80	Slight		Slight		Poorly suited	
						Ponding	1.00
						Wetness	1.00
						Low strength	0.50
290547							
Red Hook	80	Slight		Slight		Moderately suited	
						Wetness	0.50
290548							
Riverhead	85	Slight		Slight		Moderately suited	
						Low strength	0.50
290549							
Riverhead	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Low strength	0.50
						Slope	0.50
290555							
Torull	40	Slight		Slight		Poorly suited	
						Low strength	1.00
						Wetness	1.00
Gretor	40	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Wetness	0.50
						Low strength	0.50
290556							
Tunkhannock	85	Slight		Slight		Moderately suited	
						Stickiness; high plasticity index	0.50
290562							
Tunkhannock	50	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
						Stickiness; high plasticity index	0.50
Chenango	30	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Low strength	0.50
						Slope	0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290563							
Udorthents	80	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope	0.50
290565							
Unadilla	80	Slight		Slight		Moderately suited Low strength	0.50
290567							
Valois	80	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope	0.50
290568							
Valois	80	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope	0.50
290569							
Valois	80	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
290570							
Valois	80	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
290576							
Volusia	85	Slight		Moderate Slope/erodibility	0.50	Poorly suited Wetness Low strength Slope	1.00 0.50 0.50
290578							
Wellsboro	80	Slight		Moderate Slope/erodibility	0.50	Moderately suited Wetness Low strength	0.50 0.50
290579							
Wellsboro	80	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Wetness Low strength	0.50 0.50 0.50
290581							
Wellsboro	50	Slight		Severe Slope/erodibility	0.95	Moderately suited Wetness Slope Low strength	0.50 0.50 0.50
Mardin	30	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Low strength Wetness	0.50 0.50 0.50
290582							
Wenonah	85	Slight		Slight		Moderately suited Low strength	0.50
290592							
Carlisle	45	Slight		Slight		Poorly suited Low strength Ponding Wetness	1.00 1.00 1.00

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290592							
Palms	40	Slight		Slight		Poorly suited	
						Low strength	1.00
						Ponding	1.00
						Wetness	1.00
293892							
Alden, extremely stony	75	Slight		Slight		Poorly suited	
						Ponding	1.00
						Wetness	1.00
						Rock fragments	0.50
						Low strength	0.50
293895							
Arnot	50	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
Lordstown	35	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Low strength	0.50
293896							
Arnot	60	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
Lordstown	30	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
293897							
Arnot	65	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
Lordstown	25	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
293921							
Erie, extremely stony	80	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Wetness	0.50
						Rock fragments	0.50
						Low strength	0.50
						Slope	0.50
293929							
Hoosic	80	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
293930							
Hoosic	80	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
293931							
Hoosic	80	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293932							
Lordstown	80	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Low strength	0.50
						Slope	0.50
293939							
Middlebury	80	Slight		Slight		Poorly suited	
						Flooding	1.00
						Wetness	0.50
						Low strength	0.50
293943							
Otisville	80	Slight		Slight		Well suited	
293944							
Otisville	80	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
293945							
Otisville	80	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
293946							
Otisville	40	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Sandiness	0.50
Hoosic	40	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
293949							
Pits, gravel	75	Not rated		Not rated		Not rated	
293961							
Rock outcrop	50	Not rated		Not rated		Not rated	
Arnot	35	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
293962							
Rock outcrop	50	Not rated		Not rated		Not rated	
Arnot	40	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
293963							
Rock outcrop	60	Not rated		Not rated		Not rated	
Arnot	30	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
293975							
Suncook	80	Slight		Slight		Moderately suited	
						Flooding	0.50
293979							
Swartswood, very stony	40	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293979							
Mardin	40	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Low strength	0.50
						Wetness	0.50
293980							
Swartswood, very stony	40	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
Mardin	40	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
						Wetness	0.50
293981							
Swartswood, very stony	40	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
Mardin	35	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
						Wetness	0.50
293983							
Udifluvents, frequently flooded	45	Slight		Slight		Poorly suited	
						Flooding	1.00
						Low strength	0.50
Fluvaquents	30	Slight		Slight		Poorly suited	
						Ponding	1.00
						Flooding	1.00
						Wetness	1.00
						Low strength	0.50
295043							
Alden	80	Slight		Slight		Poorly suited	
						Ponding	1.00
						Wetness	1.00
						Low strength	0.50
295044							
Arnot	40	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
Lordstown	40	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Low strength	1.00
						Slope	0.50
295045							
Arnot	40	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
Lordstown	40	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Low strength	1.00

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295046							
Arnot	45	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope	0.50
Oquaga	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope	0.50
295047							
Arnot	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
Oquaga	35	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
295048							
Arnot	60	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope	0.50
Rock outcrop	25	Not rated		Not rated		Not rated	
295049							
Arnot	55	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
Rock outcrop	30	Not rated		Not rated		Not rated	
295050							
Arnot	45	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
Rock outcrop	40	Not rated		Not rated		Not rated	
295051							
Barbour	85	Slight		Slight		Moderately suited Low strength	0.50
295052							
Bash	85	Slight		Slight		Moderately suited Wetness Low strength Flooding	0.50 0.50 0.50
295053							
Carlisle	85	Slight		Slight		Poorly suited Low strength Ponding Wetness	1.00 1.00 1.00
295054							
Carlisle, ponded	25	Slight		Slight		Poorly suited Low strength Ponding Wetness	1.00 1.00 1.00
Palms, ponded	25	Slight		Slight		Poorly suited Low strength Ponding Wetness	1.00 1.00 1.00

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295054							
Alden, ponded	25	Slight		Slight		Poorly suited	
						Ponding	1.00
						Wetness	1.00
						Low strength	0.50
295055							
Chenango	85	Slight		Slight		Well suited	
295056							
Chenango	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
295057							
Chenango	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
295059							
Cheshire, stony	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
295060							
Cheshire, stony	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
295061							
Cheshire, stony	85	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
295062							
Cheshire, stony	85	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
295063							
Cheshire, stony	85	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
295069							
Fluvaquents	45	Slight		Slight		Poorly suited	
						Ponding	1.00
						Flooding	1.00
						Wetness	1.00
						Low strength	0.50
Udifluvents, frequently flooded	40	Slight		Slight		Poorly suited	
						Flooding	1.00
295074							
Lackawanna	80	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
						Wetness	0.50
295075							
Lackawanna	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
						Wetness	0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295076							
Lackawanna	85	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Wetness	0.50
295082							
Lordstown, stony	85	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Low strength	1.00
						Slope	0.50
295083							
Lordstown, very stony	55	Slight		Severe		Poorly suited	
				Slope/erodibility	0.95	Low strength	1.00
						Slope	0.50
Arnot, very stony	25	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
295092							
Morris	85	Slight		Slight		Moderately suited	
						Wetness	0.50
						Low strength	0.50
295093							
Morris	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Wetness	0.50
						Low strength	0.50
295094							
Morris	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
						Wetness	0.50
						Low strength	0.50
295095							
Neversink	80	Slight		Slight		Poorly suited	
						Wetness	1.00
						Low strength	0.50
295101							
Oquaga	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
295102							
Oquaga	50	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
Arnot	35	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
295103							
Oquaga	50	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
Arnot	35	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
295105							
Otisville	85	Slight		Slight		Moderately suited	
						Sandiness	0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295106							
Otisville	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Sandiness	0.50
						Slope	0.50
295107							
Otisville	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
						Sandiness	0.50
295109							
Palms	85	Slight		Slight		Poorly suited	
						Low strength	1.00
						Ponding	1.00
						Wetness	1.00
295110							
Philo	85	Slight		Slight		Poorly suited	
						Flooding	1.00
						Low strength	0.50
						Wetness	0.50
295111							
Pits, gravel	80	Not rated		Not rated		Not rated	
295112							
Pits, quarry	80	Not rated		Not rated		Not rated	
295113							
Pompton	85	Slight		Slight		Moderately suited	
						Wetness	0.50
295114							
Pompton	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Wetness	0.50
295115							
Pope, occasionally flooded	85	Slight		Slight		Poorly suited	
						Flooding	1.00
						Low strength	0.50
295116							
Pope, rarely flooded	85	Slight		Slight		Moderately suited	
						Low strength	0.50
295117							
Raynham, poorly drained	50	Slight		Slight		Poorly suited	
						Wetness	1.00
						Low strength	0.50
Raynham, somewhat poorly drained	30	Slight		Slight		Moderately suited	
						Wetness	0.50
						Low strength	0.50
295118							
Red Hook	80	Slight		Slight		Poorly suited	
						Wetness	1.00

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295119							
Riverhead	85	Slight		Slight		Well suited	
295120							
Riverhead	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
295121							
Riverhead	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
295122							
Scio	80	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Low strength	0.50
						Wetness	0.50
295123							
Scriba, stony	80	Slight		Slight		Poorly suited	
						Wetness	1.00
						Low strength	0.50
295124							
Scriba, stony	75	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Wetness	1.00
						Low strength	0.50
						Slope	0.50
295125							
Scriba, extremely stony	40	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Wetness	1.00
						Rock fragments	0.50
						Low strength	0.50
Morris, extremely stony	40	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Wetness	0.50
						Rock fragments	0.50
						Low strength	0.50
295126							
Suncook	80	Slight		Slight		Moderately suited	
						Flooding	0.50
295129							
Swartswood	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
						Wetness	0.50
295130							
Swartswood	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
						Wetness	0.50
295131							
Swartswood	85	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Wetness	0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295132							
Swartswood, stony---	40	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Wetness	0.50
Lackawanna, stony---	40	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Wetness	0.50
295133							
Swartswood, very stony---	40	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Wetness	0.50
Lackawanna, very stony---	40	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Wetness	0.50
295134							
Swartswood, very stony---	40	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Wetness	0.50
Lackawanna, very stony---	40	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Wetness	0.50
295136							
Tuller, somewhat poorly drained-----	40	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Wetness	1.00
						Low strength	0.50
Tuller, poorly drained----------	20	Slight		Slight		Poorly suited	
						Wetness	1.00
						Low strength	0.50
Rock outcrop--------	20	Not rated		Not rated		Not rated	
295137							
Tunkhannock---------	85	Slight		Slight		Well suited	
295138							
Tunkhannock---------	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
295139							
Tunkhannock---------	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
295140							
Tunkhannock---------	85	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295141							
Tunkhannock	45	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
Otisville	40	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Sandiness	0.50
295142							
Tunkhannock	45	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
Otisville	40	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Sandiness	0.50
295143							
Udorthents	75	Not rated		Not rated		Not rated	
295144							
Unadilla	85	Slight		Slight		Moderately suited	
						Low strength	0.50
295145							
Unadilla	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Low strength	0.50
295146							
Valois	80	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
295147							
Valois	80	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
295148							
Valois	80	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
295149							
Valois	80	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
295150							
Valois	80	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
295153							
Wayland	85	Slight		Slight		Poorly suited	
						Ponding	1.00
						Flooding	1.00
						Wetness	1.00
						Low strength	0.50
295154							
Wellsboro	85	Slight		Slight		Moderately suited	
						Wetness	0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295155							
Wellsboro	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Wetness	0.50
						Slope	0.50
295156							
Wellsboro	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
						Wetness	0.50
295157							
Wellsboro, extremely stony	40	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
						Wetness	0.50
						Rock fragments	0.50
Wurtsboro, extremely stony	40	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Wetness	0.50
						Slope	0.50
						Rock fragments	0.50
						Low strength	0.50
295162							
Wurtsboro, stony	85	Slight		Slight		Moderately suited	
						Wetness	0.50
						Low strength	0.50
295163							
Wurtsboro, stony	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Wetness	0.50
						Low strength	0.50
						Slope	0.50
295164							
Wurtsboro, stony	85	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Wetness	0.50
						Low strength	0.50
296588							
Arnot	90	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Low strength	0.50
						Slope	0.50
296589							
Arnot	90	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Low strength	0.50
296590							
Arnot	95	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
296591							
Barbour	70	Slight		Slight		Moderately suited	
						Flooding	0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296592							
Basher	87	Slight		Slight		Moderately suited	
						Low strength	0.50
						Flooding	0.50
						Wetness	0.50
296593							
Fluvents	70	Slight		Slight		Poorly suited	
						Flooding	1.00
Fluvaquents	20	Slight		Slight		Poorly suited	
						Flooding	1.00
						Wetness	1.00
						Low strength	0.50
296594							
Holly	95	Slight		Slight		Poorly suited	
						Ponding	1.00
						Flooding	1.00
						Wetness	1.00
						Low strength	0.50
296595							
Linden	85	Slight		Slight		Moderately suited	
						Low strength	0.50
						Stickiness; high plasticity index	0.50
296596							
Lordstown	94	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Low strength	0.50
						Slope	0.50
296599							
Lordstown	80	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Rock fragments	0.50
						Low strength	0.50
						Slope	0.50
296600							
Lordstown	90	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Rock fragments	0.50
						Low strength	0.50
296601							
Medihemists	60	Slight		Slight		Poorly suited	
						Low strength	1.00
						Ponding	1.00
						Wetness	1.00
Medifibrists	30	Slight		Slight		Poorly suited	
						Ponding	1.00
						Wetness	1.00
296602							
Mardin	90	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Wetness	0.50
						Low strength	0.50
						Slope	0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296603							
Mardin	90	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Wetness	0.50
						Low strength	0.50
296604							
Mardin	90	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Wetness	0.50
						Low strength	0.50
296605							
Mardin	90	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Wetness	0.50
						Rock fragments	0.50
						Low strength	0.50
						Slope	0.50
296606							
Mardin	85	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Wetness	0.50
						Rock fragments	0.50
						Low strength	0.50
296608							
Morris	75	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Wetness	1.00
						Low strength	0.50
						Slope	0.50
296609							
Morris	80	Slight		Severe		Poorly suited	
				Slope/erodibility	0.95	Slope	1.00
						Wetness	1.00
						Low strength	0.50
296610							
Morris	75	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Wetness	1.00
						Rock fragments	0.50
						Low strength	0.50
296611							
Morris	90	Slight		Severe		Poorly suited	
				Slope/erodibility	0.95	Wetness	1.00
						Slope	0.50
						Rock fragments	0.50
						Low strength	0.50
296613							
Norwich	63	Slight		Slight		Poorly suited	
						Ponding	1.00
						Wetness	1.00
						Rock fragments	0.50
						Low strength	0.50
Chippewa	33	Slight		Slight		Poorly suited	
						Wetness	1.00
						Rock fragments	0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296614							
Oquaga	85	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope	0.50
296615							
Oquaga	85	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope	0.50
296616							
Oquaga	85	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
296617							
Oquaga	85	Slight		Moderate Slope/erodibility	0.50	Moderately suited Rock fragments Slope	0.50 0.50
296618							
Oquaga	85	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	1.00 0.50
296619							
Oquaga	45	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	1.00 0.50
Lordstown	20	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments Low strength	1.00 0.50 0.50
296621							
Quarries	100	Not rated		Not rated		Not rated	
296622							
Rexford, poorly drained	45	Slight		Slight		Poorly suited Wetness Low strength	1.00 0.50
Rexford, somewhat poorly drained	40	Slight		Slight		Poorly suited Wetness Low strength	1.00 0.50
296623							
Rock outcrop	70	Not rated		Not rated		Not rated	
Arnot	20	Slight		Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
296625							
Swartswood	90	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Stickiness; high plasticity index	0.50 0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296628							
Swartswood	90	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Rock fragments	0.50
						Stickiness; high plasticity index	0.50
296630							
Volusia	75	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Wetness	1.00
						Low strength	0.50
						Slope	0.50
296632							
Volusia	75	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Wetness	1.00
						Rock fragments	0.50
						Low strength	0.50
296633							
Volusia	90	Slight		Severe		Poorly suited	
				Slope/erodibility	0.95	Wetness	1.00
						Slope	0.50
						Rock fragments	0.50
						Low strength	0.50
296634							
Wellsboro	80	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Wetness	0.50
						Low strength	0.50
						Slope	0.50
296635							
Wellsboro	85	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Wetness	0.50
						Low strength	0.50
296636							
Wellsboro	85	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Wetness	0.50
						Low strength	0.50
296637							
Wellsboro	80	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Wetness	0.50
						Rock fragments	0.50
						Low strength	0.50
						Slope	0.50
296638							
Wellsboro	85	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Wetness	0.50
						Rock fragments	0.50
						Low strength	0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296639							
Wellsboro	70	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Wetness	0.50
						Rock fragments	0.50
						Low strength	0.50
Mardin	20	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Wetness	0.50
						Rock fragments	0.50
						Low strength	0.50
296640							
Wyoming	85	Slight		Slight		Moderately suited	
						Slope	0.50
296641							
Wyoming	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
296642							
Wyoming	85	Moderate		Moderate		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.50	Slope	1.00
296643							
Wyoming	90	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
296644							
Water	100	Not rated		Not rated		Not rated	
297185							
Edgemere	42	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Rock fragments	1.00
						Ponding	1.00
						Wetness	1.00
						Low strength	0.50
						Slope	0.50
Shohola	42	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Rock fragments	1.00
						Wetness	0.50
						Slope	0.50
						Low strength	0.50
297186							
Edgemere	75	Slight		Slight		Poorly suited	
						Rock fragments	1.00
						Ponding	1.00
						Wetness	1.00
						Low strength	0.50
297188							
Manlius	40	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Rock fragments	1.00

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297188							
Arnot	35	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Rock fragments	1.00
						Low strength	0.50
Rock outcrop	15	Not rated		Not rated		Not rated	
297189							
Manlius	40	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Rock fragments	1.00
Arnot	35	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Rock fragments	1.00
						Low strength	0.50
Rock outcrop	15	Not rated		Not rated		Not rated	
297190							
Braceville	82	Slight		Slight		Moderately suited	
						Wetness	0.50
297191							
Wyalusing	85	Slight		Slight		Poorly suited	
						Flooding	1.00
						Wetness	1.00
						Low strength	0.50
297192							
Pope	95	Slight		Slight		Poorly suited	
						Flooding	1.00
297193							
Paupack	90	Slight		Slight		Poorly suited	
						Ponding	1.00
						Wetness	1.00
297194							
Morris	82	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Wetness	1.00
						Low strength	0.50
297196							
Freetown	94	Slight		Slight		Poorly suited	
						Ponding	1.00
						Wetness	1.00
297199							
Oquaga	78	Slight		Slight		Poorly suited	
						Rock fragments	1.00
297200							
Oquaga	78	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Rock fragments	1.00
						Slope	0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297201							
Oquaga	75	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope Rock fragments	 1.00 1.00
297202							
Oquaga	40	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	 1.00 1.00
Arnot	30	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	 1.00 1.00
Rock outcrop	20	Not rated		Not rated		Not rated	
297203							
Delaware	93	Slight		Slight		Moderately suited Low strength	 0.50
297204							
Delaware	82	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope	 0.50
297205							
Delaware	80	Slight		Severe Slope/erodibility	0.95	Poorly suited Slope	 1.00
297207							
Wurtsboro	92	Slight		Moderate Slope/erodibility	0.50	Moderately suited Wetness	 0.50
297208							
Wurtsboro	92	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Wetness	 0.50 0.50
297209							
Philo	85	Slight		Slight		Poorly suited Flooding Low strength	 1.00 0.50
297210							
Barbour	85	Slight		Slight		Poorly suited Flooding Low strength	 1.00 0.50
297211							
Wellsboro	89	Slight		Moderate Slope/erodibility	0.50	Moderately suited Wetness Rock fragments	 0.50 0.50
297212							
Wellsboro	89	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Wetness Rock fragments	 0.50 0.50 0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297213							
Wellsboro	82	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Wetness	0.50
						Rock fragments	0.50
297215							
Wellsboro	91	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Wetness	0.50
297216							
Wurtsboro	92	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Rock fragments	0.50
						Wetness	0.50
297217							
Wurtsboro	88	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Rock fragments	0.50
						Wetness	0.50
297218							
Wurtsboro	88	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Rock fragments	0.50
						Wetness	0.50
297221							
Lackawanna	81	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Rock fragments	0.50
						Low strength	0.50
						Slope	0.50
297223							
Lackawanna	75	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Rock fragments	0.50
						Low strength	0.50
297224							
Swartswood	95	Slight		Slight		Moderately suited	
						Rock fragments	0.50
297225							
Swartswood	95	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
						Rock fragments	0.50
297226							
Swartswood	90	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Rock fragments	0.50
297227							
Arnot	88	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
297228							
Arnot	85	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297229							
Wyoming	90	Slight		Slight		Well suited	
297230							
Wyoming	90	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
297231							
Wyoming	90	Moderate		Moderate		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.50	Slope	1.00
297236							
Suncook	91	Slight		Slight		Poorly suited	
						Flooding	1.00
297239							
Mardin	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Wetness	0.50
						Rock fragments	0.50
297240							
Mardin	85	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Wetness	0.50
						Rock fragments	0.50
297241							
Unadilla	90	Slight		Slight		Moderately suited	
						Low strength	0.50
297242							
Shohola	62	Slight		Slight		Poorly suited	
						Rock fragments	1.00
						Wetness	0.50
						Low strength	0.50
Edgemere	29	Slight		Slight		Poorly suited	
						Ponding	1.00
						Wetness	1.00
						Rock fragments	0.50
						Low strength	0.50
297243							
Shohola	62	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Rock fragments	1.00
						Slope	0.50
						Wetness	0.50
						Low strength	0.50
Edgemere	29	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Ponding	1.00
						Wetness	1.00
						Slope	0.50
						Rock fragments	0.50
						Low strength	0.50
297244							
Lordstown	40	Slight		Slight		Moderately suited	
						Rock fragments	0.50
						Low strength	0.50

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297244							
Swartswood	35	Slight		Slight		Moderately suited	
						Rock fragments	0.50
297245							
Lordstown	40	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
						Rock fragments	0.50
						Low strength	0.50
Swartswood	35	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
						Rock fragments	0.50
297246							
Lordstown	40	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Rock fragments	0.50
						Low strength	0.50
Swartswood	35	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Rock fragments	0.50
297247							
Chenango	86	Slight		Slight		Well suited	
297248							
Chenango	85	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
297249							
Chenango	90	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
297250							
Lordstown	94	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Low strength	0.50
						Slope	0.50
297251							
Lordstown	86	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
						Low strength	0.50
297253							
Craigsville	50	Slight		Slight		Poorly suited	
						Flooding	1.00
						Rock fragments	0.50
Wyoming	40	Slight		Slight		Moderately suited	
						Rock fragments	0.50
297254							
Pits, shale	40	Not rated		Not rated		Not rated	
Pits, gravel	40	Not rated		Not rated		Not rated	

Table 6b.--Land Management, Part II (Hazard of Erosion and Suitability for Roads)--Continued

Map unit symbol and soil name	Pct. of map unit	Hazard of erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
309440							
Edgemere	42	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Rock fragments	1.00
						Ponding	1.00
						Wetness	1.00
						Low strength	0.50
						Slope	0.50
Shohola	42	Slight		Moderate		Poorly suited	
				Slope/erodibility	0.50	Rock fragments	1.00
						Wetness	0.50
						Slope	0.50
						Low strength	0.50
319863							
Oquaga	40	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Rock fragments	1.00
Arnot	30	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Rock fragments	1.00
Rock outcrop	20	Not rated		Not rated		Not rated	
319865							
Wellsboro	89	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Wetness	0.50
						Rock fragments	0.50
741008							
Oquaga	78	Slight		Slight		Poorly suited	
						Rock fragments	1.00

Table 6c.--Land Management, Part III (Site Preparation)

[Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table]

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290457					
Barbour	85	Well suited		Well suited	
290461					
Bath	80	Well suited		Well suited	
290465					
Cadosia	75	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
				Rock fragments	0.50
290466					
Cadosia	75	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
				Rock fragments	0.50
290468					
Chenango	85	Well suited		Well suited	
290483					
Fluvaquents	45	Well suited		Well suited	
Udifluvents	35	Well suited		Well suited	
290484					
Halcott	25	Unsuited		Well suited	
		Restrictive layer	1.00		
Mongaup	25	Poorly suited		Well suited	
		Restrictive layer	0.50		
Vly	25	Poorly suited		Well suited	
		Restrictive layer	0.50		
290485					
Halcott	25	Unsuited		Poorly suited	
		Restrictive layer	1.00	Slope	0.50
		Slope	0.50		
Mongaup	25	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
		Restrictive layer	0.50		
Vly	25	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
		Restrictive layer	0.50		
290487					
Lackawanna	80	Well suited		Well suited	
290488					
Lackawanna	80	Well suited		Well suited	

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290489					
Lackawanna	80	Poorly suited Slope	 0.50	Poorly suited Slope	 0.50
290490					
Lackawanna	80	Poorly suited Slope	 0.50	Poorly suited Slope	 0.50
290491					
Lackawanna	50	Well suited		Well suited	
Bath	30	Well suited		Well suited	
290492					
Lackawanna	50	Poorly suited Slope	 0.50	Poorly suited Slope	 0.50
Bath	30	Poorly suited Slope	 0.50	Poorly suited Slope	 0.50
290493					
Lackawanna	50	Unsuited Slope	 1.00	Unsuited Slope	 1.00
Bath	30	Unsuited Slope	 1.00	Unsuited Slope	 1.00
290506					
Lordstown	80	Poorly suited Restrictive layer	 0.50	Well suited	
290507					
Lordstown	80	Poorly suited Restrictive layer	 0.50	Well suited	
290509					
Lordstown	80	Poorly suited Slope Restrictive layer	 0.50 0.50	Poorly suited Slope	 0.50
290510					
Maplecrest	80	Well suited		Well suited	
290511					
Maplecrest	80	Well suited		Well suited	
290512					
Maplecrest	80	Poorly suited Slope	 0.50	Poorly suited Slope	 0.50
290514					
Mardin	80	Well suited		Well suited	
290515					
Mardin	80	Well suited		Well suited	
290519					
Mongaup	80	Poorly suited Restrictive layer	 0.50	Well suited	

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290522					
Morris	85	Well suited		Well suited	
290523					
Morris	85	Well suited		Well suited	
290525					
Morris	50	Well suited		Well suited	
Volusia	30	Well suited		Well suited	
290526					
Norchip	80	Well suited		Well suited	
290535					
Oquaga	80	Poorly suited		Well suited	
		Restrictive layer	0.50		
290536					
Oquaga	80	Poorly suited		Well suited	
		Restrictive layer	0.50		
290539					
Oquaga	80	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Restrictive layer	0.50		
290540					
Oquaga	25	Poorly suited		Well suited	
		Restrictive layer	0.50		
Lordstown	25	Poorly suited		Well suited	
		Restrictive layer	0.50		
Arnot	25	Unsuited		Well suited	
		Restrictive layer	1.00		
290541					
Oquaga	25	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
		Restrictive layer	0.50		
Lordstown	25	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
		Restrictive layer	0.50		
Arnot	25	Unsuited		Poorly suited	
		Restrictive layer	1.00	Slope	0.50
		Slope	0.50		
290542					
Oquaga	25	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Restrictive layer	0.50		
Lordstown	25	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Restrictive layer	0.50		

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290542					
Arnot	25	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Restrictive layer	1.00		
290544					
Pits, gravel	85	Not rated		Not rated	
290546					
Raypol	80	Well suited		Well suited	
290547					
Red Hook	80	Well suited		Well suited	
290548					
Riverhead	85	Well suited		Well suited	
290549					
Riverhead	85	Well suited		Well suited	
290555					
Torull	40	Unsuited		Well suited	
		Restrictive layer	1.00		
Gretor	40	Poorly suited		Well suited	
		Restrictive layer	0.50		
290556					
Tunkhannock	85	Well suited		Well suited	
290562					
Tunkhannock	50	Well suited		Well suited	
Chenango	30	Well suited		Well suited	
290563					
Udorthents	80	Well suited		Well suited	
290565					
Unadilla	80	Well suited		Well suited	
290567					
Valois	80	Well suited		Well suited	
290568					
Valois	80	Well suited		Well suited	
290569					
Valois	80	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
290570					
Valois	80	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
290576					
Volusia	85	Well suited		Well suited	
290578					
Wellsboro	80	Well suited		Well suited	

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290579					
Wellsboro	80	Well suited		Well suited	
290581					
Wellsboro	50	Well suited		Well suited	
Mardin	30	Well suited		Well suited	
290582					
Wenonah	85	Well suited		Well suited	
290592					
Carlisle	45	Well suited		Well suited	
Palms	40	Well suited		Well suited	
293892					
Alden, extremely stony	75	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
293895					
Arnot	50	Unsuited		Well suited	
		Restrictive layer	1.00		
Lordstown	35	Poorly suited		Well suited	
		Restrictive layer	0.50		
293896					
Arnot	60	Unsuited		Poorly suited	
		Restrictive layer	1.00	Slope	0.50
		Slope	0.50		
Lordstown	30	Poorly suited		Poorly suited	
		Restrictive layer	0.50	Slope	0.50
		Slope	0.50		
293897					
Arnot	65	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Restrictive layer	1.00		
Lordstown	25	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Restrictive layer	0.50		
293921					
Erie, extremely stony	80	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
293929					
Hoosic	80	Well suited		Well suited	
293930					
Hoosic	80	Well suited		Well suited	
293931					
Hoosic	80	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
293932					
Lordstown	80	Well suited		Well suited	
293939					
Middlebury	80	Well suited		Well suited	
293943					
Otisville	80	Well suited		Well suited	
293944					
Otisville	80	Well suited		Well suited	
293945					
Otisville	80	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
293946					
Otisville	40	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
Hoosic	40	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
293949					
Pits, gravel	75	Not rated		Not rated	
293961					
Rock outcrop	50	Not rated		Not rated	
Arnot	35	Unsuited		Well suited	
		Restrictive layer	1.00		
293962					
Rock outcrop	50	Not rated		Not rated	
Arnot	40	Unsuited		Poorly suited	
		Restrictive layer	1.00	Slope	0.50
		Slope	0.50		
293963					
Rock outcrop	60	Not rated		Not rated	
Arnot	30	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Restrictive layer	1.00		
293975					
Suncook	80	Well suited		Well suited	
293979					
Swartswood, very stony	40	Well suited		Well suited	
Mardin	40	Well suited		Well suited	
293980					
Swartswood, very stony	40	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
293980					
Mardin	40	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
293981					
Swartswood, very stony	40	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
Mardin	35	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
293983					
Udifluvents, frequently flooded	45	Well suited		Well suited	
Fluvaquents	30	Well suited		Well suited	
295043					
Alden	80	Well suited		Well suited	
295044					
Arnot	40	Unsuited		Well suited	
		Restrictive layer	1.00		
Lordstown	40	Poorly suited		Well suited	
		Restrictive layer	0.50		
295045					
Arnot	40	Unsuited		Poorly suited	
		Restrictive layer	1.00	Slope	0.50
		Slope	0.50		
Lordstown	40	Poorly suited		Poorly suited	
		Restrictive layer	0.50	Slope	0.50
		Slope	0.50		
295046					
Arnot	45	Unsuited		Well suited	
		Restrictive layer	1.00		
Oquaga	40	Poorly suited		Well suited	
		Restrictive layer	0.50		
295047					
Arnot	50	Unsuited		Poorly suited	
		Restrictive layer	1.00	Slope	0.50
		Slope	0.50		
Oquaga	35	Poorly suited		Poorly suited	
		Restrictive layer	0.50	Slope	0.50
		Slope	0.50		
295048					
Arnot	60	Unsuited		Well suited	
		Restrictive layer	1.00		
Rock outcrop	25	Not rated		Not rated	

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295049					
Arnot	55	Unsuited		Poorly suited	
		Restrictive layer	1.00	Slope	0.50
		Slope	0.50		
Rock outcrop	30	Not rated		Not rated	
295050					
Arnot	45	Unsuited		Unsuited	
		Restrictive layer	1.00	Slope	1.00
		Slope	1.00		
Rock outcrop	40	Not rated		Not rated	
295051					
Barbour	85	Well suited		Well suited	
295052					
Bash	85	Well suited		Well suited	
295053					
Carlisle	85	Well suited		Well suited	
295054					
Carlisle, ponded	25	Unsuited		Poorly suited	
		Wetness	0.75	Wetness	0.75
Palms, ponded	25	Unsuited		Poorly suited	
		Wetness	0.75	Wetness	0.75
Alden, ponded	25	Unsuited		Poorly suited	
		Wetness	0.75	Wetness	0.75
295055					
Chenango	85	Well suited		Well suited	
295056					
Chenango	85	Well suited		Well suited	
295057					
Chenango	85	Well suited		Well suited	
295059					
Cheshire, stony	85	Well suited		Well suited	
295060					
Cheshire, stony	85	Well suited		Well suited	
295061					
Cheshire, stony	85	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
295062					
Cheshire, stony	85	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
295063					
Cheshire, stony	85	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295069					
Fluvaquents	45	Well suited		Well suited	
Udifluvents, frequently flooded	40	Well suited		Well suited	
295074					
Lackawanna	80	Well suited		Well suited	
295075					
Lackawanna	85	Well suited		Well suited	
295076					
Lackawanna	85	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
295082					
Lordstown, stony	85	Poorly suited		Well suited	
		Restrictive layer	0.50		
295083					
Lordstown, very stony	55	Poorly suited		Well suited	
		Restrictive layer	0.50		
Arnot, very stony	25	Unsuited		Well suited	
		Restrictive layer	1.00		
295092					
Morris	85	Well suited		Well suited	
295093					
Morris	85	Well suited		Well suited	
295094					
Morris	85	Well suited		Well suited	
295095					
Neversink	80	Well suited		Well suited	
295101					
Oquaga	85	Poorly suited		Well suited	
		Restrictive layer	0.50		
295102					
Oquaga	50	Poorly suited		Well suited	
		Restrictive layer	0.50		
Arnot	35	Unsuited		Well suited	
		Restrictive layer	1.00		
295103					
Oquaga	50	Poorly suited		Poorly suited	
		Restrictive layer	0.50	Slope	0.50
		Slope	0.50		
Arnot	35	Unsuited		Poorly suited	
		Restrictive layer	1.00	Slope	0.50
		Slope	0.50		

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295105					
Otisville	85	Well suited		Poorly suited	
				Rock fragments	0.50
295106					
Otisville	85	Well suited		Poorly suited	
				Rock fragments	0.50
295107					
Otisville	85	Well suited		Poorly suited	
				Rock fragments	0.50
295109					
Palms	85	Well suited		Well suited	
295110					
Philo	85	Well suited		Well suited	
295111					
Pits, gravel	80	Not rated		Not rated	
295112					
Pits, quarry	80	Not rated		Not rated	
295113					
Pompton	85	Well suited		Well suited	
295114					
Pompton	85	Well suited		Well suited	
295115					
Pope, occasionally flooded	85	Well suited		Well suited	
295116					
Pope, rarely flooded	85	Well suited		Well suited	
295117					
Raynham, poorly drained	50	Well suited		Well suited	
Raynham, somewhat poorly drained	30	Well suited		Well suited	
295118					
Red Hook	80	Well suited		Well suited	
295119					
Riverhead	85	Well suited		Well suited	
295120					
Riverhead	85	Well suited		Well suited	
295121					
Riverhead	85	Well suited		Well suited	
295122					
Scio	80	Well suited		Well suited	

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295123					
Scriba, stony-------	80	Well suited		Well suited	
295124					
Scriba, stony-------	75	Well suited		Well suited	
295125					
Scriba, extremely stony--------------	40	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
Morris, extremely stony--------------	40	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
295126					
Suncook-------------	80	Well suited		Well suited	
295129					
Swartswood----------	85	Well suited		Well suited	
295130					
Swartswood----------	85	Well suited		Well suited	
295131					
Swartswood----------	85	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
295132					
Swartswood, stony---	40	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
Lackawanna, stony---	40	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
295133					
Swartswood, very stony--------------	40	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
Lackawanna, very stony--------------	40	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
295134					
Swartswood, very stony--------------	40	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
Lackawanna, very stony--------------	40	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
295136					
Tuller, somewhat poorly drained-----	40	Unsuited		Unsuited	
		Restrictive layer	1.00	Restrictive layer	1.00

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295136					
Tuller, poorly drained	20	Unsuited		Unsuited	
		Restrictive layer	1.00	Restrictive layer	1.00
Rock outcrop	20	Not rated		Not rated	
295137					
Tunkhannock	85	Well suited		Well suited	
295138					
Tunkhannock	85	Well suited		Well suited	
295139					
Tunkhannock	85	Well suited		Well suited	
295140					
Tunkhannock	85	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
295141					
Tunkhannock	45	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
Otisville	40	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
				Rock fragments	0.50
295142					
Tunkhannock	45	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
Otisville	40	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
				Rock fragments	0.50
295143					
Udorthents	75	Not rated		Not rated	
295144					
Unadilla	85	Well suited		Well suited	
295145					
Unadilla	85	Well suited		Well suited	
295146					
Valois	80	Well suited		Well suited	
295147					
Valois	80	Well suited		Well suited	
295148					
Valois	80	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
295149					
Valois	80	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295150					
Valois	80	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
295153					
Wayland	85	Well suited		Well suited	
295154					
Wellsboro	85	Well suited		Well suited	
295155					
Wellsboro	85	Well suited		Well suited	
295156					
Wellsboro	85	Well suited		Well suited	
295157					
Wellsboro, extremely stony	40	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
Wurtsboro, extremely stony	40	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
295162					
Wurtsboro, stony	85	Well suited		Well suited	
295163					
Wurtsboro, stony	85	Well suited		Well suited	
295164					
Wurtsboro, stony	85	Well suited		Well suited	
296588					
Arnot	90	Unsuited		Well suited	
		Restrictive layer	1.00		
296589					
Arnot	90	Unsuited		Well suited	
		Restrictive layer	1.00		
296590					
Arnot	95	Unsuited		Poorly suited	
		Restrictive layer	1.00	Slope	0.50
		Slope	0.50		
296591					
Barbour	70	Well suited		Well suited	
296592					
Basher	87	Well suited		Well suited	
296593					
Fluvents	70	Well suited		Well suited	
Fluvaquents	20	Well suited		Well suited	
296594					
Holly	95	Well suited		Well suited	

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296595					
Linden	85	Well suited		Well suited	
296596					
Lordstown	94	Unsuited		Well suited	
		Restrictive layer	1.00		
296599					
Lordstown	80	Unsuited		Poorly suited	
		Restrictive layer	1.00	Rock fragments	0.50
		Rock fragments	0.50		
296600					
Lordstown	90	Unsuited		Poorly suited	
		Restrictive layer	1.00	Rock fragments	0.50
		Rock fragments	0.50	Slope	0.50
		Slope	0.50		
296601					
Medihemists	60	Well suited		Well suited	
Medifibrists	30	Well suited		Well suited	
296602					
Mardin	90	Well suited		Well suited	
296603					
Mardin	90	Well suited		Well suited	
296604					
Mardin	90	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
296605					
Mardin	90	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
296606					
Mardin	85	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
		Slope	0.50	Slope	0.50
296608					
Morris	75	Well suited		Well suited	
296609					
Morris	80	Well suited		Well suited	
296610					
Morris	75	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
296611					
Morris	90	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
296613					
Norwich	63	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296613					
Chippewa	33	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
296614					
Oquaga	85	Unsuited		Well suited	
		Restrictive layer	1.00		
296615					
Oquaga	85	Unsuited		Well suited	
		Restrictive layer	1.00		
296616					
Oquaga	85	Unsuited		Poorly suited	
		Restrictive layer	1.00	Slope	0.50
		Slope	0.50		
296617					
Oquaga	85	Unsuited		Poorly suited	
		Restrictive layer	1.00	Rock fragments	0.50
		Rock fragments	0.50		
296618					
Oquaga	85	Unsuited		Poorly suited	
		Restrictive layer	1.00	Rock fragments	0.50
		Rock fragments	0.50	Slope	0.50
		Slope	0.50		
296619					
Oquaga	45	Unsuited		Unsuited	
		Restrictive layer	1.00	Slope	1.00
		Slope	1.00	Rock fragments	0.50
		Rock fragments	0.50		
Lordstown	20	Unsuited		Unsuited	
		Restrictive layer	1.00	Slope	1.00
		Slope	1.00	Rock fragments	0.50
		Rock fragments	0.50		
296621					
Quarries	100	Not rated		Not rated	
296622					
Rexford, poorly drained	45	Well suited		Well suited	
Rexford, somewhat poorly drained	40	Well suited		Well suited	
296623					
Rock outcrop	70	Not rated		Not rated	
Arnot	20	Unsuited		Well suited	
		Restrictive layer	1.00		
296625					
Swartswood	90	Well suited		Well suited	

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296628					
Swartswood	90	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
		Slope	0.50	Slope	0.50
296630					
Volusia	75	Well suited		Well suited	
296632					
Volusia	75	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
296633					
Volusia	90	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
296634					
Wellsboro	80	Well suited		Well suited	
296635					
Wellsboro	85	Well suited		Well suited	
296636					
Wellsboro	85	Well suited		Well suited	
296637					
Wellsboro	80	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
296638					
Wellsboro	85	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
		Slope	0.50	Slope	0.50
296639					
Wellsboro	70	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.50
Mardin	20	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.50
296640					
Wyoming	85	Well suited		Well suited	
296641					
Wyoming	85	Well suited		Well suited	
296642					
Wyoming	85	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
296643					
Wyoming	90	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
296644					
Water	100	Not rated		Not rated	

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297185					
Edgemere	42	Unsuited		Unsuited	
		Rock fragments	1.00	Rock fragments	1.00
Shohola	42	Unsuited		Unsuited	
		Rock fragments	1.00	Rock fragments	1.00
297186					
Edgemere	75	Unsuited		Unsuited	
		Rock fragments	1.00	Rock fragments	1.00
297188					
Manlius	40	Unsuited		Unsuited	
		Restrictive layer	1.00	Rock fragments	1.00
		Rock fragments	1.00	Slope	0.50
		Slope	0.50		
Arnot	35	Unsuited		Unsuited	
		Restrictive layer	1.00	Rock fragments	1.00
		Rock fragments	1.00	Slope	0.50
		Slope	0.50		
Rock outcrop	15	Not rated		Not rated	
297189					
Manlius	40	Unsuited		Unsuited	
		Restrictive layer	1.00	Slope	1.00
		Slope	1.00	Rock fragments	1.00
		Rock fragments	1.00		
Arnot	35	Unsuited		Unsuited	
		Restrictive layer	1.00	Slope	1.00
		Slope	1.00	Rock fragments	1.00
		Rock fragments	1.00		
Rock outcrop	15	Not rated		Not rated	
297190					
Braceville	82	Well suited		Well suited	
297191					
Wyalusing	85	Well suited		Well suited	
297192					
Pope	95	Well suited		Well suited	
297193					
Paupack	90	Unsuited		Poorly suited	
		Wetness	1.00	Wetness	0.75
297194					
Morris	82	Well suited		Well suited	
297196					
Freetown	94	Unsuited		Poorly suited	
		Wetness	1.00	Wetness	0.75

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297199					
Oquaga	78	Unsuited		Unsuited	
		Restrictive layer	1.00	Rock fragments	1.00
		Rock fragments	0.50		
297200					
Oquaga	78	Unsuited		Unsuited	
		Restrictive layer	1.00	Rock fragments	1.00
		Rock fragments	0.50		
297201					
Oquaga	75	Unsuited		Unsuited	
		Restrictive layer	1.00	Rock fragments	1.00
		Slope	0.50	Slope	0.50
		Rock fragments	0.50		
297202					
Oquaga	40	Unsuited		Unsuited	
		Restrictive layer	1.00	Slope	1.00
		Slope	1.00	Rock fragments	1.00
		Rock fragments	0.50		
Arnot	30	Unsuited		Unsuited	
		Restrictive layer	1.00	Slope	1.00
		Slope	1.00	Rock fragments	1.00
		Rock fragments	0.50		
Rock outcrop	20	Not rated		Not rated	
297203					
Delaware	93	Well suited		Well suited	
297204					
Delaware	82	Well suited		Well suited	
297205					
Delaware	80	Well suited		Well suited	
297207					
Wurtsboro	92	Well suited		Well suited	
297208					
Wurtsboro	92	Well suited		Well suited	
297209					
Philo	85	Well suited		Well suited	
297210					
Barbour	85	Well suited		Well suited	
297211					
Wellsboro	89	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
297212					
Wellsboro	89	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297213					
Wellsboro	82	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
		Rock fragments	0.50	Rock fragments	0.50
297215					
Wellsboro	91	Well suited		Well suited	
297216					
Wurtsboro	92	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
297217					
Wurtsboro	88	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
297218					
Wurtsboro	88	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
		Rock fragments	0.50	Rock fragments	0.50
297221					
Lackawanna	81	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
297223					
Lackawanna	75	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
		Rock fragments	0.50	Rock fragments	0.50
297224					
Swartswood	95	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
297225					
Swartswood	95	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
297226					
Swartswood	90	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
		Rock fragments	0.50	Rock fragments	0.50
297227					
Arnot	88	Unsuited		Poorly suited	
		Restrictive layer	1.00	Rock fragments	0.50
297228					
Arnot	85	Unsuited		Poorly suited	
		Restrictive layer	1.00	Slope	0.50
		Slope	0.50	Rock fragments	0.50
297229					
Wyoming	90	Well suited		Well suited	
297230					
Wyoming	90	Well suited		Well suited	

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297231					
Wyoming	90	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
297236					
Suncook	91	Well suited		Well suited	
297239					
Mardin	85	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
297240					
Mardin	85	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
297241					
Unadilla	90	Well suited		Well suited	
297242					
Shohola	62	Unsuited		Unsuited	
		Rock fragments	1.00	Rock fragments	1.00
Edgemere	29	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
297243					
Shohola	62	Unsuited		Unsuited	
		Rock fragments	1.00	Rock fragments	1.00
Edgemere	29	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
297244					
Lordstown	40	Unsuited		Poorly suited	
		Restrictive layer	1.00	Rock fragments	0.50
		Rock fragments	0.50		
Swartswood	35	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
297245					
Lordstown	40	Unsuited		Poorly suited	
		Restrictive layer	1.00	Rock fragments	0.50
		Rock fragments	0.50		
Swartswood	35	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
297246					
Lordstown	40	Unsuited		Poorly suited	
		Restrictive layer	1.00	Slope	0.50
		Slope	0.50	Rock fragments	0.50
		Rock fragments	0.50		
Swartswood	35	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
		Rock fragments	0.50	Rock fragments	0.50
297247					
Chenango	86	Well suited		Well suited	

Table 6c.--Land Management, Part III (Site Preparation)--Continued

Map unit symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (deep)		Suitability for mechanical site preparation (surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297248					
Chenango	85	Well suited		Well suited	
297249					
Chenango	90	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
297250					
Lordstown	94	Unsuited		Well suited	
		Restrictive layer	1.00		
297251					
Lordstown	86	Unsuited		Well suited	
		Restrictive layer	1.00		
297253					
Craigsville	50	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
Wyoming	40	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
297254					
Pits, shale	40	Not rated		Not rated	
Pits, gravel	40	Not rated		Not rated	
309440					
Edgemere	42	Unsuited		Unsuited	
		Rock fragments	1.00	Rock fragments	1.00
Shohola	42	Unsuited		Unsuited	
		Rock fragments	1.00	Rock fragments	1.00
319863					
Oquaga	40	Unsuited		Unsuited	
		Restrictive layer	1.00	Slope	1.00
		Slope	1.00	Rock fragments	1.00
		Rock fragments	0.50		
Arnot	30	Unsuited		Unsuited	
		Restrictive layer	1.00	Slope	1.00
		Slope	1.00	Rock fragments	1.00
		Rock fragments	0.50		
Rock outcrop	20	Not rated		Not rated	
319865					
Wellsboro	89	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
741008					
Oquaga	78	Unsuited		Unsuited	
		Restrictive layer	1.00	Rock fragments	1.00
		Rock fragments	0.50		

Table 6d.--Land Management, Part IV (Site Restoration)

[Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table]

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290457					
Barbour	85	Low Texture/rock fragments	0.10	Low	
290461					
Bath	80	Low Texture/rock fragments	0.10	Low	
290465					
Cadosia	75	Moderate Texture/rock fragments	0.50	Low	
290466					
Cadosia	75	High Texture/slope/ rock fragments	1.00	Low	
290468					
Chenango	85	Low Texture/rock fragments	0.10	Low	
290483					
Fluvaquents	45	Low Texture/rock fragments	0.10	High Wetness	1.00
Udifluvents	35	Moderate Texture/rock fragments	0.50	Low	
290484					
Halcott	25	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
Mongaup	25	Low Texture/rock fragments	0.10	Low	
Vly	25	Low Texture/rock fragments	0.10	Low	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290485					
Halcott	25	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
Mongaup	25	Low Texture/rock fragments	0.10	Low	
Vly	25	Low Texture/rock fragments	0.10	Low	
290487					
Lackawanna	80	Low Texture/rock fragments	0.10	Low	
290488					
Lackawanna	80	Low Texture/rock fragments	0.10	Low	
290489					
Lackawanna	80	Low Texture/rock fragments	0.10	Low	
290490					
Lackawanna	80	Low		Low	
290491					
Lackawanna	50	Low Texture/rock fragments	0.10	Low	
Bath	30	Low Texture/rock fragments	0.10	Low	
290492					
Lackawanna	50	Low Texture/rock fragments	0.10	Low	
Bath	30	Low Texture/rock fragments	0.10	Low	
290493					
Lackawanna	50	Low		Low	
Bath	30	Low Texture/rock fragments	0.10	Low	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290506					
Lordstown	80	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
290507					
Lordstown	80	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
290509					
Lordstown	80	Moderate		Low	
		Texture/slope/ surface layer thickness/rock fragments	0.50		
290510					
Maplecrest	80	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
290511					
Maplecrest	80	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
290512					
Maplecrest	80	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
290514					
Mardin	80	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
290515					
Mardin	80	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
290519					
Mongaup	80	Low		Low	
		Texture/rock fragments	0.10		
290522					
Morris	85	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290523					
Morris	85	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
290525					
Morris	50	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
Volusia	30	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
290526					
Norchip	80	Moderate		High	
		Texture/surface layer thickness/rock fragments	0.50	Wetness	1.00
290535					
Oquaga	80	Low		Low	
		Texture/rock fragments	0.10		
290536					
Oquaga	80	Low		Low	
		Texture/rock fragments	0.10		
290539					
Oquaga	80	Low		Low	
290540					
Oquaga	25	Low		Low	
		Texture/rock fragments	0.10		
Lordstown	25	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
Arnot	25	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
290541					
Oquaga	25	Low		Low	
		Texture/rock fragments	0.10		
Lordstown	25	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290541					
Arnot	25	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
290542					
Oquaga	25	Low		Low	
Lordstown	25	Moderate Texture/slope/ surface layer thickness/rock fragments	0.50	Low	
Arnot	25	Moderate Texture/slope/ surface layer thickness/rock fragments	0.50	Low	
290544					
Pits, gravel	85	Not rated		Not rated	
290546					
Raypol	80	Low Texture/rock fragments	0.10	High Wetness	1.00
290547					
Red Hook	80	Low Texture/rock fragments	0.10	High Wetness	1.00
290548					
Riverhead	85	Low Texture/rock fragments	0.10	Low	
290549					
Riverhead	85	Low Texture/rock fragments	0.10	Low	
290555					
Torull	40	Moderate Texture/surface layer thickness/rock fragments	0.50	High Wetness	1.00
Gretor	40	Low Texture/rock fragments	0.10	High Wetness	1.00
290556					
Tunkhannock	85	Low Texture/rock fragments	0.10	Low	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290562					
Tunkhannock	50	Low Texture/rock fragments	0.10	Low	
Chenango	30	Low Texture/rock fragments	0.10	Low	
290563					
Udorthents	80	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
290565					
Unadilla	80	Low Texture/rock fragments	0.10	Low	
290567					
Valois	80	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
290568					
Valois	80	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
290569					
Valois	80	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
290570					
Valois	80	Moderate Texture/slope/ surface layer thickness/rock fragments	0.50	Low	
290576					
Volusia	85	Low Texture/rock fragments	0.10	High Wetness	1.00
290578					
Wellsboro	80	Low Texture/rock fragments	0.10	High Wetness	1.00

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290579					
Wellsboro	80	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
290581					
Wellsboro	50	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
Mardin	30	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
290582					
Wenonah	85	Low		Low	
		Texture/rock fragments	0.10		
290592					
Carlisle	45	Low		High	
				Wetness	1.00
Palms	40	Low		High	
				Wetness	1.00
293892					
Alden, extremely stony	75	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
293895					
Arnot	50	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
Lordstown	35	Low		Low	
		Texture/rock fragments	0.10		
293896					
Arnot	60	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
Lordstown	30	Low		Low	
		Texture/rock fragments	0.10		
293897					
Arnot	65	Moderate		Low	
		Texture/slope/surface layer thickness/rock fragments	0.50		

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
293897					
Lordstown	25	Low		Low	
293921					
Erie, extremely stony	80	Moderate Texture/surface layer thickness/rock fragments	0.50	High Wetness	1.00
293929					
Hoosic	80	Low Texture/rock fragments	0.10	Low	
293930					
Hoosic	80	Low Texture/rock fragments	0.10	Low	
293931					
Hoosic	80	Low Texture/rock fragments	0.10	Low	
293932					
Lordstown	80	Low Texture/rock fragments	0.10	Low	
293939					
Middlebury	80	Low Texture/rock fragments	0.10	High Wetness	1.00
293943					
Otisville	80	Low Texture/rock fragments	0.10	Low	
293944					
Otisville	80	Low Texture/rock fragments	0.10	Low	
293945					
Otisville	80	Low Texture/rock fragments	0.10	Low	
293946					
Otisville	40	Moderate Texture/slope/ surface layer thickness/rock fragments	0.50	Low	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
293946					
Hoosic	40	Moderate Texture/slope/ surface layer thickness/rock fragments	0.50	Low	
293949					
Pits, gravel	75	Not rated		Not rated	
293961					
Rock outcrop	50	Not rated		Not rated	
Arnot	35	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
293962					
Rock outcrop	50	Not rated		Not rated	
Arnot	40	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
293963					
Rock outcrop	60	Not rated		Not rated	
Arnot	30	Moderate Texture/slope/ surface layer thickness/rock fragments	0.50	Low	
293975					
Suncook	80	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
293979					
Swartswood, very stony	40	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
Mardin	40	Low Texture/rock fragments	0.10	Low	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
293980 Swartswood, very stony	40	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
Mardin	40	Low Texture/rock fragments	0.10	Low	
293981 Swartswood, very stony	40	Moderate Texture/slope/surface layer thickness/rock fragments	0.50	Low	
Mardin	35	Low		Low	
293983 Udifluvents, frequently flooded	45	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
Fluvaquents	30	Low Texture/rock fragments	0.10	High Wetness	1.00
295043 Alden	80	Low Texture/rock fragments	0.10	High Wetness	1.00
295044 Arnot	40	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
Lordstown	40	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
295045 Arnot	40	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295045					
Lordstown	40	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
295046					
Arnot	45	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
Oquaga	40	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
295047					
Arnot	50	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
Oquaga	35	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
295048					
Arnot	60	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
Rock outcrop	25	Not rated		Not rated	
295049					
Arnot	55	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
Rock outcrop	30	Not rated		Not rated	
295050					
Arnot	45	Moderate Texture/slope/surface layer thickness/rock fragments	0.50	Low	
Rock outcrop	40	Not rated		Not rated	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295051					
Barbour	85	Low Texture/rock fragments	0.10	Low	
295052					
Bash	85	Low Texture/rock fragments	0.10	High Wetness	1.00
295053					
Carlisle	85	Low		High Wetness	1.00
295054					
Carlisle, ponded	25	Low		High Wetness	1.00
Palms, ponded	25	Low		High Wetness	1.00
Alden, ponded	25	Low Texture/rock fragments	0.10	High Wetness	1.00
295055					
Chenango	85	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
295056					
Chenango	85	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
295057					
Chenango	85	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
295059					
Cheshire, stony	85	Low Texture/rock fragments	0.10	Low	
295060					
Cheshire, stony	85	Low Texture/rock fragments	0.10	Low	
295061					
Cheshire, stony	85	Low Texture/rock fragments	0.10	Low	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295062					
Cheshire, stony-----	85	Low		Low	
295063					
Cheshire, stony-----	85	Low		Low	
295069					
Fluvaquents---------	45	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
Udifluvents, frequently flooded-	40	High		Low	
		Texture/surface layer thickness/rock fragments	1.00		
295074					
Lackawanna----------	80	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
295075					
Lackawanna----------	85	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
295076					
Lackawanna----------	85	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
295082					
Lordstown, stony----	85	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
295083					
Lordstown, very stony--------------	55	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
Arnot, very stony---	25	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295092					
Morris	85	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
295093					
Morris	85	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
295094					
Morris	85	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
295095					
Neversink	80	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
295101					
Oquaga	85	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
295102					
Oquaga	50	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
Arnot	35	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
295103					
Oquaga	50	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
Arnot	35	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
295105					
Otisville	85	Moderate		Low	
		Texture/rock fragments	0.50		

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295106					
Otisville	85	Moderate Texture/rock fragments	0.50	Low	
295107					
Otisville	85	Moderate Texture/rock fragments	0.50	Low	
295109					
Palms	85	Low		High Wetness	1.00
295110					
Philo	85	Low Texture/rock fragments	0.10	Low	
295111					
Pits, gravel	80	Not rated		Not rated	
295112					
Pits, quarry	80	Not rated		Not rated	
295113					
Pompton	85	Low Texture/rock fragments	0.10	High Wetness	1.00
295114					
Pompton	85	Low Texture/rock fragments	0.10	High Wetness	1.00
295115					
Pope, occasionally flooded	85	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
295116					
Pope, rarely flooded	85	Low Texture/rock fragments	0.10	Low	
295117					
Raynham, poorly drained	50	Low Texture/rock fragments	0.10	High Wetness	1.00
Raynham, somewhat poorly drained	30	Low Texture/rock fragments	0.10	High Wetness	1.00

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295118					
Red Hook	80	Low Texture/rock fragments	0.10	High Wetness	1.00
295119					
Riverhead	85	Low Texture/rock fragments	0.10	Low	
295120					
Riverhead	85	Low Texture/rock fragments	0.10	Low	
295121					
Riverhead	85	Low Texture/rock fragments	0.10	Low	
295122					
Scio	80	Low Texture/rock fragments	0.10	Low	
295123					
Scriba, stony	80	Low Texture/rock fragments	0.10	High Wetness	1.00
295124					
Scriba, stony	75	Low Texture/rock fragments	0.10	High Wetness	1.00
295125					
Scriba, extremely stony	40	Low Texture/rock fragments	0.10	High Wetness	1.00
Morris, extremely stony	40	Low Texture/rock fragments	0.10	High Wetness	1.00
295126					
Suncook	80	Low Texture/rock fragments	0.10	Low	
295129					
Swartswood	85	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295130					
Swartswood	85	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
295131					
Swartswood	85	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
295132					
Swartswood, stony	40	Moderate Texture/slope/ surface layer thickness/rock fragments	0.50	Low	
Lackawanna, stony	40	Moderate Texture/slope/ surface layer thickness/rock fragments	0.50	Low	
295133					
Swartswood, very stony	40	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
Lackawanna, very stony	40	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
295134					
Swartswood, very stony	40	Moderate Texture/slope/ surface layer thickness/rock fragments	0.50	Low	
Lackawanna, very stony	40	Moderate Texture/slope/ surface layer thickness/rock fragments	0.50	Low	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295136					
Tuller, somewhat poorly drained	40	Moderate Texture/surface layer thickness/rock fragments	0.50	High Wetness	1.00
Tuller, poorly drained	20	Moderate Texture/surface layer thickness/rock fragments	0.50	High Wetness	1.00
Rock outcrop	20	Not rated		Not rated	
295137					
Tunkhannock	85	Low Texture/rock fragments	0.10	Low	
295138					
Tunkhannock	85	Low Texture/rock fragments	0.10	Low	
295139					
Tunkhannock	85	Low Texture/rock fragments	0.10	Low	
295140					
Tunkhannock	85	Low Texture/rock fragments	0.10	Low	
295141					
Tunkhannock	45	Low		Low	
Otisville	40	Moderate Texture/rock fragments	0.50	Low	
295142					
Tunkhannock	45	Low		Low	
Otisville	40	Moderate Texture/rock fragments	0.50	Low	
295143					
Udorthents	75	Not rated		Not rated	
295144					
Unadilla	85	Low Texture/rock fragments	0.10	Low	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295145					
Unadilla	85	Low Texture/rock fragments	0.10	Low	
295146					
Valois	80	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
295147					
Valois	80	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
295148					
Valois	80	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
295149					
Valois	80	Moderate Texture/slope/ surface layer thickness/rock fragments	0.50	Low	
295150					
Valois	80	Moderate Texture/slope/ surface layer thickness/rock fragments	0.50	Low	
295153					
Wayland	85	Low Texture/rock fragments	0.10	High Wetness	1.00
295154					
Wellsboro	85	Low Texture/rock fragments	0.10	Low	
295155					
Wellsboro	85	Low Texture/rock fragments	0.10	Low	
295156					
Wellsboro	85	Low Texture/rock fragments	0.10	Low	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295157 Wellsboro, extremely stony	40	Low Texture/rock fragments	0.10	Low	
Wurtsboro, extremely stony	40	Moderate Texture/surface layer thickness/rock fragments	0.50	High Wetness	1.00
295162 Wurtsboro, stony	85	Moderate Texture/surface layer thickness/rock fragments	0.50	High Wetness	1.00
295163 Wurtsboro, stony	85	Moderate Texture/surface layer thickness/rock fragments	0.50	High Wetness	1.00
295164 Wurtsboro, stony	85	Moderate Texture/surface layer thickness/rock fragments	0.50	High Wetness	1.00
296588 Arnot	90	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
296589 Arnot	90	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
296590 Arnot	95	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
296591 Barbour	70	Low Texture/rock fragments	0.10	Low	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296592					
Basher	87	Low Texture/rock fragments	0.10	Low	
296593					
Fluvents	70	Moderate Texture/rock fragments	0.50	Low	
Fluvaquents	20	Low Texture/rock fragments	0.10	High Wetness	1.00
296594					
Holly	95	Low Texture/rock fragments	0.10	High Wetness	1.00
296595					
Linden	85	Low Texture/rock fragments	0.10	Low	
296596					
Lordstown	94	Low Texture/rock fragments	0.10	Low	
296599					
Lordstown	80	Low Texture/rock fragments	0.10	Low	
296600					
Lordstown	90	Low Texture/rock fragments	0.10	Low	
296601					
Medihemists	60	Low		High Wetness	1.00
Medifibrists	30	Low		High Wetness	1.00
296602					
Mardin	90	Low Texture/rock fragments	0.10	High Wetness	1.00
296603					
Mardin	90	Low Texture/rock fragments	0.10	High Wetness	1.00
296604					
Mardin	90	Low Texture/rock fragments	0.10	High Wetness	1.00

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296605					
Mardin	90	Low Texture/rock fragments	0.10	High Wetness	1.00
296606					
Mardin	85	Low Texture/rock fragments	0.10	High Wetness	1.00
296608					
Morris	75	Low Texture/rock fragments	0.10	High Wetness	1.00
296609					
Morris	80	Low Texture/rock fragments	0.10	High Wetness	1.00
296610					
Morris	75	Low Texture/rock fragments	0.10	High Wetness	1.00
296611					
Morris	90	Low Texture/rock fragments	0.10	High Wetness	1.00
296613					
Norwich	63	Low Texture/rock fragments	0.10	High Wetness	1.00
Chippewa	33	Low Texture/rock fragments	0.10	High Wetness	1.00
296614					
Oquaga	85	Low Texture/rock fragments	0.10	Low	
296615					
Oquaga	85	Low Texture/rock fragments	0.10	Low	
296616					
Oquaga	85	Low Texture/rock fragments	0.10	Low	
296617					
Oquaga	85	Low Texture/rock fragments	0.10	Low	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296618					
Oquaga	85	Low Texture/rock fragments	0.10	Low	
296619					
Oquaga	45	Low		Low	
Lordstown	20	Low		Low	
296621					
Quarries	100	Not rated		Not rated	
296622					
Rexford, poorly drained	45	Low Texture/rock fragments	0.10	High Wetness	1.00
Rexford, somewhat poorly drained	40	Low Texture/rock fragments	0.10	High Wetness	1.00
296623					
Rock outcrop	70	Not rated		Not rated	
Arnot	20	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
296625					
Swartswood	90	Low Texture/rock fragments	0.10	Low	
296628					
Swartswood	90	Low Texture/rock fragments	0.10	Low	
296630					
Volusia	75	Low Texture/rock fragments	0.10	High Wetness	1.00
296632					
Volusia	75	Low Texture/rock fragments	0.10	High Wetness	1.00
296633					
Volusia	90	Low Texture/rock fragments	0.10	High Wetness	1.00

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296634					
Wellsboro	80	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
296635					
Wellsboro	85	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
296636					
Wellsboro	85	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
296637					
Wellsboro	80	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
296638					
Wellsboro	85	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
296639					
Wellsboro	70	Low		High	
				Wetness	1.00
Mardin	20	Low		High	
				Wetness	1.00
296640					
Wyoming	85	Low		Low	
		Texture/rock fragments	0.10		
296641					
Wyoming	85	Low		Low	
		Texture/rock fragments	0.10		
296642					
Wyoming	85	Low		Low	
		Texture/rock fragments	0.10		
296643					
Wyoming	90	Low		Low	
296644					
Water	100	Not rated		Not rated	
297185					
Edgemere	42	High		High	
		Texture/surface layer thickness/rock fragments	1.00	Wetness	1.00

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297185					
Shohola	42	Moderate		High	
		Texture/surface layer thickness/rock fragments	0.50	Wetness	1.00
				Soil reaction	0.50
297186					
Edgemere	75	High		High	
		Texture/surface layer thickness/rock fragments	1.00	Wetness	1.00
297188					
Manlius	40	Moderate		Low	
		Texture/rock fragments	0.50		
Arnot	35	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
Rock outcrop	15	Not rated		Not rated	
297189					
Manlius	40	Moderate		Low	
		Texture/slope/ rock fragments	0.50		
Arnot	35	High		Low	
		Texture/slope/ surface layer thickness/rock fragments	1.00		
Rock outcrop	15	Not rated		Not rated	
297190					
Braceville	82	Low		Low	
		Texture/rock fragments	0.10		
297191					
Wyalusing	85	Low		High	
		Texture/rock fragments	0.10	Wetness	1.00
297192					
Pope	95	Low		Low	
		Texture/rock fragments	0.10		
297193					
Paupack	90	Low		High	
				Wetness	1.00
				Soil reaction	0.50

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297194					
Morris	82	Moderate		High	
		Texture/rock fragments	0.50	Wetness	1.00
297196					
Freetown	94	Low		High	
				Wetness	1.00
				Soil reaction	0.50
297199					
Oquaga	78	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
297200					
Oquaga	78	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
297201					
Oquaga	75	Moderate		Low	
		Texture/surface layer thickness/rock fragments	0.50		
297202					
Oquaga	40	High		Low	
		Texture/slope/ surface layer thickness/rock fragments	1.00		
Arnot	30	High		Low	
		Texture/slope/ surface layer thickness/rock fragments	1.00		
Rock outcrop	20	Not rated		Not rated	
297203					
Delaware	93	Low		Low	
		Texture/rock fragments	0.10		
297204					
Delaware	82	Low		Low	
		Texture/rock fragments	0.10		
297205					
Delaware	80	Low		Low	
		Texture/rock fragments	0.10		

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297207					
Wurtsboro	92	Low Texture/rock fragments	0.10	Low	
297208					
Wurtsboro	92	Low Texture/rock fragments	0.10	Low	
297209					
Philo	85	Low Texture/rock fragments	0.10	Low	
297210					
Barbour	85	Low Texture/rock fragments	0.10	Low	
297211					
Wellsboro	89	Low Texture/rock fragments	0.10	High Wetness	1.00
297212					
Wellsboro	89	Low Texture/rock fragments	0.10	High Wetness	1.00
297213					
Wellsboro	82	Low Texture/rock fragments	0.10	High Wetness	1.00
297215					
Wellsboro	91	Low Texture/rock fragments	0.10	High Wetness	1.00
297216					
Wurtsboro	92	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
297217					
Wurtsboro	88	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
297218					
Wurtsboro	88	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297221					
Lackawanna	81	Low Texture/rock fragments	0.10	Low	
297223					
Lackawanna	75	Low Texture/rock fragments	0.10	Low	
297224					
Swartswood	95	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
297225					
Swartswood	95	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
297226					
Swartswood	90	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
297227					
Arnot	88	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
297228					
Arnot	85	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
297229					
Wyoming	90	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
297230					
Wyoming	90	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297231					
Wyoming	90	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
297236					
Suncook	91	Moderate Texture/rock fragments	0.50	Low	
297239					
Mardin	85	Low Texture/rock fragments	0.10	High Wetness	1.00
297240					
Mardin	85	Low Texture/rock fragments	0.10	High Wetness	1.00
297241					
Unadilla	90	Low Texture/rock fragments	0.10	Low	
297242					
Shohola	62	Moderate Texture/surface layer thickness/rock fragments	0.50	High Wetness Soil reaction	1.00 0.50
Edgemere	29	High Texture/surface layer thickness/rock fragments	1.00	High Wetness	1.00
297243					
Shohola	62	Moderate Texture/surface layer thickness/rock fragments	0.50	High Wetness Soil reaction	1.00 0.50
Edgemere	29	High Texture/surface layer thickness/rock fragments	1.00	High Wetness	1.00
297244					
Lordstown	40	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297244					
Swartswood	35	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
297245					
Lordstown	40	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
Swartswood	35	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
297246					
Lordstown	40	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
Swartswood	35	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
297247					
Chenango	86	Low Texture/rock fragments	0.10	Low	
297248					
Chenango	85	Low Texture/rock fragments	0.10	Low	
297249					
Chenango	90	Low Texture/rock fragments	0.10	Low	
297250					
Lordstown	94	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
297251					
Lordstown	86	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	

Table 6d.--Land Management, Part IV (Site Restoration)--Continued

Map unit symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297253					
Craigsville	50	Moderate Texture/rock fragments	0.50	Low	
Wyoming	40	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	
297254					
Pits, shale	40	Not rated		Not rated	
Pits, gravel	40	Not rated		Not rated	
309440					
Edgemere	42	High Texture/surface layer thickness/rock fragments	1.00	High Wetness	1.00
Shohola	42	Moderate Texture/surface layer thickness/rock fragments	0.50	High Wetness Soil reaction	1.00 0.50
319863					
Oquaga	40	High Texture/slope/surface layer thickness/rock fragments	1.00	Low	
Arnot	30	High Texture/slope/surface layer thickness/rock fragments	1.00	Low	
Rock outcrop	20	Not rated		Not rated	
319865					
Wellsboro	89	Low Texture/rock fragments	0.10	High Wetness	1.00
741008					
Oquaga	78	Moderate Texture/surface layer thickness/rock fragments	0.50	Low	

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)

[Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table]

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290457					
Barbour	85	Very limited		Not limited	
		Flooding	1.00		
290461					
Bath	80	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.90	Slope	0.63
		Slope	0.63	Depth to saturated zone	0.60
290465					
Cadosia	75	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	1.00	Gravel	1.00
		Large stones	0.53	Large stones	0.53
290466					
Cadosia	75	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	1.00	Gravel	1.00
		Large stones	0.53	Large stones	0.53
290468					
Chenango	85	Not limited		Not limited	
290483					
Fluvaquents	45	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Flooding	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Flooding	0.40
Udifluvents	35	Very limited		Somewhat limited	
		Flooding	1.00	Flooding	0.40
		Gravel	0.22	Gravel	0.22
290484					
Halcott	25	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Large stones	0.53	Large stones	0.53
		Gravel	0.22	Gravel	0.22
		Slope	0.04	Slope	0.04
Mongaup	25	Somewhat limited		Somewhat limited	
		Large stones	0.53	Large stones	0.53
		Slope	0.04	Slope	0.04
		Gravel	0.04	Gravel	0.04
Vly	25	Somewhat limited		Somewhat limited	
		Large stones	0.53	Large stones	0.53
		Gravel	0.06	Gravel	0.06
		Slope	0.04	Slope	0.04

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290485					
Halcott	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Large stones	0.53	Large stones	0.53
		Gravel	0.22	Gravel	0.22
Mongaup	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Large stones	0.53	Large stones	0.53
		Gravel	0.04	Gravel	0.04
Vly	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Large stones	0.53	Large stones	0.53
		Gravel	0.06	Gravel	0.06
290487					
Lackawanna	80	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.67	Depth to saturated zone	0.35
290488					
Lackawanna	80	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.67	Slope	0.63
		Slope	0.63	Depth to saturated zone	0.35
290489					
Lackawanna	80	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to saturated zone	0.67	Depth to saturated zone	0.35
290490					
Lackawanna	80	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to saturated zone	0.67	Depth to saturated zone	0.35
290491					
Lackawanna	50	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.67	Large stones	0.53
		Large stones	0.53	Depth to saturated zone	0.35
		Slope	0.04	Slope	0.04
Bath	30	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.90	Depth to saturated zone	0.60
		Large stones	0.53	Large stones	0.53
		Slope	0.04	Slope	0.04
290492					
Lackawanna	50	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to saturated zone	0.67	Large stones	0.53
		Large stones	0.53	Depth to saturated zone	0.35

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290492					
Bath	30	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to saturated zone	0.90	Depth to saturated zone	0.60
		Large stones	0.53	Large stones	0.53
290493					
Lackawanna	50	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to saturated zone	0.67	Large stones	0.53
		Large stones	0.53	Depth to saturated zone	0.35
Bath	30	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to saturated zone	0.90	Depth to saturated zone	0.60
		Large stones	0.53	Large stones	0.53
290506					
Lordstown	80	Not limited		Not limited	
290507					
Lordstown	80	Somewhat limited		Somewhat limited	
		Slope	0.63	Slope	0.63
290509					
Lordstown	80	Very limited		Very limited	
		Slope	1.00	Slope	1.00
290510					
Maplecrest	80	Not limited		Not limited	
290511					
Maplecrest	80	Somewhat limited		Somewhat limited	
		Slope	0.63	Slope	0.63
290512					
Maplecrest	80	Very limited		Very limited	
		Slope	1.00	Slope	1.00
290514					
Mardin	80	Very limited		Somewhat limited	
		Depth to saturated zone	1.00	Depth to saturated zone	0.90
290515					
Mardin	80	Very limited		Somewhat limited	
		Depth to saturated zone	1.00	Depth to saturated zone	0.90
		Slope	0.63	Slope	0.63
290519					
Mongaup	80	Somewhat limited		Somewhat limited	
		Gravel	0.04	Gravel	0.04
290522					
Morris	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290523					
Morris	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
290525					
Morris	50	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Large stones	0.53	Large stones	0.53
Volusia	30	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Large stones	0.53	Large stones	0.53
290526					
Norchip	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
290535					
Oquaga	80	Somewhat limited		Somewhat limited	
		Gravel	0.54	Gravel	0.54
290536					
Oquaga	80	Somewhat limited		Somewhat limited	
		Slope	0.63	Slope	0.63
		Gravel	0.54	Gravel	0.54
290539					
Oquaga	80	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.54	Gravel	0.54
290540					
Oquaga	25	Somewhat limited		Somewhat limited	
		Gravel	0.54	Large stones	0.53
		Large stones	0.53	Gravel	0.54
		Slope	0.04	Slope	0.04
Lordstown	25	Somewhat limited		Somewhat limited	
		Large stones	0.53	Large stones	0.53
		Slope	0.04	Slope	0.04
Arnot	25	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Large stones	0.53	Large stones	0.53
		Gravel	0.06	Gravel	0.06
		Slope	0.04	Slope	0.04
290541					
Oquaga	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.54	Large stones	0.53
		Large stones	0.53	Gravel	0.54
Lordstown	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Large stones	0.53	Large stones	0.53

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290541					
Arnot	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Large stones	0.53	Large stones	0.53
		Gravel	0.06	Gravel	0.06
290542					
Oquaga	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.54	Large stones	0.53
		Large stones	0.53	Gravel	0.54
Lordstown	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Large stones	0.53	Large stones	0.53
Arnot	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Large stones	0.53	Large stones	0.53
		Gravel	0.06	Gravel	0.06
290544					
Pits, gravel	85	Not rated		Not rated	
290546					
Raypol	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Flooding	1.00	Depth to saturated zone	1.00
		Ponding	1.00		
290547					
Red Hook	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Gravel	0.92	Gravel	0.92
290548					
Riverhead	85	Not limited		Not limited	
290549					
Riverhead	85	Not limited		Not limited	
290555					
Torull	40	Not rated		Not rated	
Gretor	40	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slow water movement	0.49	Slow water movement	0.49
290556					
Tunkhannock	85	Somewhat limited		Somewhat limited	
		Gravel	0.90	Gravel	0.90
290562					
Tunkhannock	50	Very limited		Somewhat limited	
		Flooding	1.00	Gravel	0.90
		Gravel	0.90		

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290562					
Chenango	30	Very limited		Not limited	
		Flooding	1.00		
290563					
Udorthents	80	Not rated		Not rated	
290565					
Unadilla	80	Not limited		Not limited	
290567					
Valois	80	Not limited		Not limited	
290568					
Valois	80	Somewhat limited		Somewhat limited	
		Slope	0.63	Slope	0.63
290569					
Valois	80	Very limited		Very limited	
		Slope	1.00	Slope	1.00
290570					
Valois	80	Very limited		Very limited	
		Slope	1.00	Slope	1.00
290576					
Volusia	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
290578					
Wellsboro	80	Very limited		Somewhat limited	
		Depth to saturated zone	1.00	Depth to saturated zone	0.94
290579					
Wellsboro	80	Very limited		Somewhat limited	
		Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Slope	0.63	Slope	0.63
290581					
Wellsboro	50	Very limited		Somewhat limited	
		Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Large stones	0.53	Large stones	0.53
		Slope	0.04	Slope	0.04
Mardin	30	Very limited		Somewhat limited	
		Depth to saturated zone	1.00	Depth to saturated zone	0.90
		Large stones	0.53	Large stones	0.53
		Slope	0.04	Slope	0.04
290582					
Wenonah	85	Very limited		Not limited	
		Flooding	1.00		
290592					
Carlisle	45	Not rated		Not rated	
Palms	40	Not rated		Not rated	

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
293892					
Alden, extremely stony	75	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Ponding	1.00	Ponding	1.00
		Large stones	1.00	Depth to saturated zone	1.00
		Slow water movement	0.49	Slow water movement	0.49
293895					
Arnot	50	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	0.63	Slope	0.63
		Gravel	0.25	Gravel	0.25
Lordstown	35	Not rated		Not rated	
293896					
Arnot	60	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Gravel	0.25	Gravel	0.25
Lordstown	30	Not rated		Not rated	
293897					
Arnot	65	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Gravel	0.25	Gravel	0.25
Lordstown	25	Not rated		Not rated	
293921					
Erie, extremely stony	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	1.00
		Depth to cemented pan	1.00	Depth to cemented pan	1.00
293929					
Hoosic	80	Somewhat limited		Somewhat limited	
		Gravel	0.54	Gravel	0.54
293930					
Hoosic	80	Somewhat limited		Somewhat limited	
		Slope	0.63	Slope	0.63
		Gravel	0.54	Gravel	0.54
293931					
Hoosic	80	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.54	Gravel	0.54
293932					
Lordstown	80	Not rated		Not rated	

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
293939					
Middlebury	80	Very limited		Somewhat limited	
		Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Flooding	1.00		
293943					
Otisville	80	Somewhat limited		Somewhat limited	
		Gravel	0.25	Gravel	0.25
293944					
Otisville	80	Somewhat limited		Somewhat limited	
		Slope	0.63	Slope	0.63
		Gravel	0.25	Gravel	0.25
293945					
Otisville	80	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.25	Gravel	0.25
293946					
Otisville	40	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.25	Gravel	0.25
Hoosic	40	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.54	Gravel	0.54
293949					
Pits, gravel	75	Not rated		Not rated	
293961					
Rock outcrop	50	Not rated		Not rated	
Arnot	35	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	0.63	Slope	0.63
		Gravel	0.25	Gravel	0.25
293962					
Rock outcrop	50	Not rated		Not rated	
Arnot	40	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Gravel	0.25	Gravel	0.25
293963					
Rock outcrop	60	Not rated		Not rated	
Arnot	30	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Gravel	0.25	Gravel	0.25
293975					
Suncook	80	Very limited		Not limited	
		Flooding	1.00		

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
293979					
Swartswood, very stony	40	Somewhat limited		Somewhat limited	
		Slope	0.63	Slope	0.63
		Large stones	0.53	Large stones	0.53
		Depth to cemented pan	0.35	Depth to cemented pan	0.35
		Depth to saturated zone	0.07	Gravel	0.04
		Gravel	0.04	Depth to saturated zone	0.03
Mardin	40	Very limited		Very limited	
		Depth to cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	0.77	Slope	0.63
		Slope	0.63	Large stones	0.53
		Large stones	0.53	Depth to saturated zone	0.43
293980					
Swartswood, very stony	40	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to cemented pan	0.65	Depth to cemented pan	0.65
		Large stones	0.53	Large stones	0.53
		Depth to saturated zone	0.07	Gravel	0.04
		Gravel	0.04	Depth to saturated zone	0.03
Mardin	40	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	0.77	Large stones	0.53
		Large stones	0.53	Depth to saturated zone	0.43
293981					
Swartswood, very stony	40	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to cemented pan	0.80	Depth to cemented pan	0.80
		Large stones	0.53	Large stones	0.53
		Depth to saturated zone	0.07	Gravel	0.04
		Gravel	0.04	Depth to saturated zone	0.03
Mardin	35	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	0.77	Large stones	0.53
		Large stones	0.53	Depth to saturated zone	0.43
293983					
Udifluvents, frequently flooded	45	Very limited		Somewhat limited	
		Flooding	1.00	Flooding	0.40

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
293983					
Fluvaquents	30	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Flooding	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Flooding	0.40
295043					
Alden	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Ponding	1.00	Depth to saturated zone	1.00
		Slow water movement	0.49	Slow water movement	0.49
295044					
Arnot	40	Not rated		Not rated	
Lordstown	40	Not rated		Not rated	
295045					
Arnot	40	Not rated		Not rated	
Lordstown	40	Not rated		Not rated	
295046					
Arnot	45	Not rated		Not rated	
Oquaga	40	Not rated		Not rated	
295047					
Arnot	50	Not rated		Not rated	
Oquaga	35	Not rated		Not rated	
295048					
Arnot	60	Not rated		Not rated	
Rock outcrop	25	Not rated		Not rated	
295049					
Arnot	55	Not rated		Not rated	
Rock outcrop	30	Not rated		Not rated	
295050					
Arnot	45	Not rated		Not rated	
Rock outcrop	40	Not rated		Not rated	
295051					
Barbour	85	Very limited		Not limited	
		Flooding	1.00		
295052					
Bash	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	1.00		
295053					
Carlisle	85	Not rated		Not rated	

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295054					
Carlisle, ponded	25	Not rated		Not rated	
Palms, ponded	25	Not rated		Not rated	
Alden, ponded	25	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Ponding	1.00	Depth to saturated zone	1.00
		Slow water movement	0.49	Slow water movement	0.49
295055					
Chenango	85	Somewhat limited		Somewhat limited	
		Gravel	0.27	Gravel	0.27
295056					
Chenango	85	Somewhat limited		Somewhat limited	
		Gravel	0.27	Gravel	0.27
295057					
Chenango	85	Somewhat limited		Somewhat limited	
		Slope	0.63	Slope	0.63
		Gravel	0.27	Gravel	0.27
295059					
Cheshire, stony	85	Somewhat limited		Somewhat limited	
		Gravel	0.05	Gravel	0.05
295060					
Cheshire, stony	85	Somewhat limited		Somewhat limited	
		Slope	0.63	Slope	0.63
		Gravel	0.05	Gravel	0.05
295061					
Cheshire, stony	85	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.05	Gravel	0.05
295062					
Cheshire, stony	85	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.05	Gravel	0.05
295063					
Cheshire, stony	85	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.05	Gravel	0.05
295069					
Fluvaquents	45	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Flooding	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Flooding	0.40
Udifluvents, frequently flooded	40	Very limited		Somewhat limited	
		Flooding	1.00	Flooding	0.40
		Gravel	0.22	Gravel	0.22

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295074					
Lackawanna	80	Not rated		Not rated	
295075					
Lackawanna	85	Not rated		Not rated	
295076					
Lackawanna	85	Not rated		Not rated	
295082					
Lordstown, stony	85	Not rated		Not rated	
295083					
Lordstown, very stony	55	Not rated		Not rated	
Arnot, very stony	25	Not rated		Not rated	
295092					
Morris	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to cemented pan	1.00	Depth to cemented pan	1.00
295093					
Morris	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to cemented pan	1.00	Depth to cemented pan	1.00
295094					
Morris	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to cemented pan	1.00	Depth to cemented pan	1.00
		Slope	0.16	Slope	0.16
295095					
Neversink	80	Not rated		Not rated	
295101					
Oquaga	85	Not rated		Not rated	
295102					
Oquaga	50	Not rated		Not rated	
Arnot	35	Not rated		Not rated	
295103					
Oquaga	50	Not rated		Not rated	
Arnot	35	Not rated		Not rated	
295105					
Otisville	85	Somewhat limited		Somewhat limited	
		Gravel	0.89	Gravel	0.89
		Too sandy	0.82	Too sandy	0.82

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295106					
Otisville	85	Somewhat limited		Somewhat limited	
		Gravel	0.89	Gravel	0.89
		Too sandy	0.82	Too sandy	0.82
295107					
Otisville	85	Somewhat limited		Somewhat limited	
		Gravel	0.89	Gravel	0.89
		Too sandy	0.82	Too sandy	0.82
		Slope	0.63	Slope	0.63
295109					
Palms	85	Not rated		Not rated	
295110					
Philo	85	Very limited		Somewhat limited	
		Flooding	1.00	Depth to saturated zone	0.75
		Depth to saturated zone	0.98		
295111					
Pits, gravel	80	Not rated		Not rated	
295112					
Pits, quarry	80	Not rated		Not rated	
295113					
Pompton	85	Very limited		Somewhat limited	
		Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Gravel	0.07	Gravel	0.07
295114					
Pompton	85	Very limited		Somewhat limited	
		Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Gravel	0.07	Gravel	0.07
295115					
Pope, occasionally flooded	85	Very limited		Not limited	
		Flooding	1.00		
295116					
Pope, rarely flooded	85	Not limited		Not limited	
295117					
Raynham, poorly drained	50	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slow water movement	0.96	Slow water movement	0.96
Raynham, somewhat poorly drained	30	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slow water movement	0.96	Slow water movement	0.96

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295118					
Red Hook	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
295119					
Riverhead	85	Not limited		Not limited	
295120					
Riverhead	85	Not limited		Not limited	
295121					
Riverhead	85	Somewhat limited		Somewhat limited	
		Slope	0.63	Slope	0.63
295122					
Scio	80	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.98	Depth to saturated zone	0.75
295123					
Scriba, stony	80	Not rated		Not rated	
295124					
Scriba, stony	75	Not rated		Not rated	
295125					
Scriba, extremely stony	40	Not rated		Not rated	
Morris, extremely stony	40	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	1.00
		Depth to cemented pan	1.00	Depth to cemented pan	1.00
295126					
Suncook	80	Very limited		Not limited	
		Flooding	1.00		
295129					
Swartswood	85	Somewhat limited		Somewhat limited	
		Depth to cemented pan	0.80	Depth to cemented pan	0.80
		Depth to saturated zone	0.67	Depth to saturated zone	0.35
		Gravel	0.25	Gravel	0.25
295130					
Swartswood	85	Somewhat limited		Somewhat limited	
		Depth to cemented pan	0.80	Depth to cemented pan	0.80
		Depth to saturated zone	0.67	Slope	0.63
		Slope	0.63	Depth to saturated zone	0.35
		Gravel	0.25	Gravel	0.25

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295131					
Swartswood	85	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to cemented pan	0.80	Depth to cemented pan	0.80
		Depth to saturated zone	0.67	Depth to saturated zone	0.35
		Gravel	0.25	Gravel	0.25
295132					
Swartswood, stony	40	Not rated		Not rated	
Lackawanna, stony	40	Not rated		Not rated	
295133					
Swartswood, very stony	40	Not rated		Not rated	
Lackawanna, very stony	40	Not rated		Not rated	
295134					
Swartswood, very stony	40	Not rated		Not rated	
Lackawanna, very stony	40	Not rated		Not rated	
295136					
Tuller, somewhat poorly drained	40	Not rated		Not rated	
Tuller, poorly drained	20	Not rated		Not rated	
Rock outcrop	20	Not rated		Not rated	
295137					
Tunkhannock	85	Somewhat limited		Somewhat limited	
		Gravel	0.25	Gravel	0.25
295138					
Tunkhannock	85	Somewhat limited		Somewhat limited	
		Gravel	0.25	Gravel	0.25
295139					
Tunkhannock	85	Somewhat limited		Somewhat limited	
		Slope	0.63	Slope	0.63
		Gravel	0.25	Gravel	0.25
295140					
Tunkhannock	85	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.25	Gravel	0.25
295141					
Tunkhannock	45	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.25	Gravel	0.25

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295141					
Otisville	40	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.89	Gravel	0.89
		Too sandy	0.82	Too sandy	0.82
295142					
Tunkhannock	45	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.25	Gravel	0.25
Otisville	40	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.89	Gravel	0.89
		Too sandy	0.82	Too sandy	0.82
295143					
Udorthents	75	Not rated		Not rated	
295144					
Unadilla	85	Not limited		Not limited	
295145					
Unadilla	85	Not limited		Not limited	
295146					
Valois	80	Not rated		Not rated	
295147					
Valois	80	Not rated		Not rated	
295148					
Valois	80	Not rated		Not rated	
295149					
Valois	80	Not rated		Not rated	
295150					
Valois	80	Not rated		Not rated	
295153					
Wayland	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Flooding	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Slow water movement	0.96
		Slow water movement	0.96	Flooding	0.40
295154					
Wellsboro	85	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.95	Depth to cemented pan	0.95
		Depth to cemented pan	0.95	Depth to saturated zone	0.68
		Gravel	0.22	Gravel	0.22

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295155					
Wellsboro	85	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.95	Depth to cemented pan	0.95
		Depth to cemented pan	0.95	Depth to saturated zone	0.68
		Gravel	0.22	Gravel	0.22
295156					
Wellsboro	85	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.95	Depth to cemented pan	0.95
		Depth to cemented pan	0.95	Depth to saturated zone	0.68
		Slope	0.63	Slope	0.63
		Gravel	0.22	Gravel	0.22
295157					
Wellsboro, extremely stony	40	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	0.95	Depth to cemented pan	0.95
		Depth to cemented pan	0.95	Depth to saturated zone	0.68
		Gravel	0.13	Gravel	0.13
Wurtsboro, extremely stony	40	Not rated		Not rated	
295162					
Wurtsboro, stony	85	Not rated		Not rated	
295163					
Wurtsboro, stony	85	Not rated		Not rated	
295164					
Wurtsboro, stony	85	Not rated		Not rated	
296588					
Arnot	90	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Gravel	0.08	Gravel	0.08
296589					
Arnot	90	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	0.63	Slope	0.63
		Gravel	0.08	Gravel	0.08
296590					
Arnot	95	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Gravel	0.08	Gravel	0.08
296591					
Barbour	70	Very limited		Not limited	
		Flooding	1.00		

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296592					
Basher	87	Very limited		Somewhat limited	
		Flooding	1.00	Depth to saturated zone	0.43
		Depth to saturated zone	0.77		
296593					
Fluvents	70	Very limited		Somewhat limited	
		Flooding	1.00	Flooding	0.40
Fluvaquents	20	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	1.00	Flooding	0.40
296594					
Holly	95	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Flooding	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Flooding	0.40
296595					
Linden	85	Not limited		Not limited	
296596					
Lordstown	94	Somewhat limited		Somewhat limited	
		Gravel	0.18	Gravel	0.18
296599					
Lordstown	80	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
296600					
Lordstown	90	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	1.00	Slope	1.00
296601					
Medihemists	60	Not rated		Not rated	
Medifibrists	30	Not rated		Not rated	
296602					
Mardin	90	Very limited		Somewhat limited	
		Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Large stones	0.14	Large stones	0.14
296603					
Mardin	90	Very limited		Somewhat limited	
		Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Slope	0.63	Slope	0.63
		Large stones	0.14	Large stones	0.14
296604					
Mardin	90	Very limited		Very limited	
		Depth to saturated zone	1.00	Slope	1.00
		Slope	1.00	Depth to saturated zone	0.94
		Large stones	0.14	Large stones	0.14

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296605					
Mardin	90	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	0.94
296606					
Mardin	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00
		Slope	1.00	Depth to saturated zone	0.94
296608					
Morris	75	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Gravel	0.29	Gravel	0.29
296609					
Morris	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slope	0.84	Slope	0.84
		Gravel	0.29	Gravel	0.29
296610					
Morris	75	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	1.00
296611					
Morris	90	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	1.00
		Slope	0.63	Slope	0.63
296613					
Norwich	63	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Ponding	1.00	Ponding	1.00
		Large stones	1.00	Depth to saturated zone	1.00
Chippewa	33	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	1.00
296614					
Oquaga	85	Somewhat limited		Somewhat limited	
		Gravel	0.62	Gravel	0.62
296615					
Oquaga	85	Somewhat limited		Somewhat limited	
		Slope	0.63	Slope	0.63
		Gravel	0.62	Gravel	0.62

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296616					
Oquaga	85	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.62	Gravel	0.62
296617					
Oquaga	85	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Gravel	0.08	Gravel	0.08
296618					
Oquaga	85	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	1.00	Slope	1.00
		Gravel	0.08	Gravel	0.08
296619					
Oquaga	45	Very limited		Very limited	
		Slope	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00
		Gravel	0.08	Gravel	0.08
Lordstown	20	Very limited		Very limited	
		Slope	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00
296621					
Quarries	100	Not rated		Not rated	
296622					
Rexford, poorly drained	45	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slow water movement	0.96	Slow water movement	0.96
Rexford, somewhat poorly drained	40	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slow water movement	0.96	Slow water movement	0.96
296623					
Rock outcrop	70	Not rated		Not rated	
Arnot	20	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	0.96	Slope	0.96
		Gravel	0.08	Gravel	0.08
296625					
Swartswood	90	Somewhat limited		Somewhat limited	
		Slope	0.63	Slope	0.63
		Slow water movement	0.43	Slow water movement	0.43
		Gravel	0.24	Gravel	0.24
		Depth to saturated zone	0.07	Depth to saturated zone	0.03

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296628					
Swartswood	90	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	1.00	Slope	1.00
		Slow water movement	0.43	Slow water movement	0.43
		Depth to saturated zone	0.07	Depth to saturated zone	0.03
296630					
Volusia	75	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
296632					
Volusia	75	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	1.00
296633					
Volusia	90	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	1.00
		Slope	0.63	Slope	0.63
296634					
Wellsboro	80	Very limited		Somewhat limited	
		Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Large stones	0.14	Large stones	0.14
296635					
Wellsboro	85	Very limited		Somewhat limited	
		Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Slope	0.63	Slope	0.63
		Large stones	0.14	Large stones	0.14
296636					
Wellsboro		Very limited		Somewhat limited	
		Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Slope	0.63	Slope	0.63
		Large stones	0.14	Large stones	0.14
296637					
Wellsboro	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	0.94
296638					
Wellsboro	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00
		Slope	1.00	Depth to saturated zone	0.94

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296639					
Wellsboro	70	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Slope	1.00	Slope	1.00
		Large stones	1.00	Depth to saturated zone	0.94
Mardin	20	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Slope	1.00	Slope	1.00
		Large stones	1.00	Depth to saturated zone	0.94
296640					
Wyoming	85	Somewhat limited		Somewhat limited	
		Gravel	0.76	Gravel	0.76
296641					
Wyoming	85	Somewhat limited		Somewhat limited	
		Gravel	0.76	Gravel	0.76
		Slope	0.63	Slope	0.63
296642					
Wyoming	85	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.76	Gravel	0.76
296643					
Wyoming	90	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.76	Gravel	0.76
296644					
Water	100	Not rated		Not rated	
297185					
Edgemere	42	Not rated		Not rated	
Shohola	42	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	1.00
		Slope	0.04	Slope	0.04
297186					
Edgemere	75	Not rated		Not rated	
297188					
Manlius	40	Very limited		Very limited	
		Slope	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00
		Gravel	0.90	Gravel	0.90
Arnot	35	Very limited		Very limited	
		Slope	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00
Rock outcrop	15	Not rated		Not rated	

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297189					
Manlius	40	Very limited		Very limited	
		Slope	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00
		Gravel	0.90	Gravel	0.90
Arnot	35	Very limited		Very limited	
		Slope	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00
Rock outcrop	15	Not rated		Not rated	
297190					
Braceville	82	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.81	Depth to saturated zone	0.48
297191					
Wyalusing	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	1.00	Flooding	0.40
297192					
Pope	95	Very limited		Somewhat limited	
		Flooding	1.00	Flooding	0.40
297193					
Paupack	90	Not rated		Not rated	
297194					
Morris	82	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Large stones	0.53	Large stones	0.53
297196					
Freetown	94	Not rated		Not rated	
297199					
Oquaga	78	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
297200					
Oquaga	78	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	0.63	Slope	0.63
		Gravel	0.45	Gravel	0.45
297201					
Oquaga	75	Very limited		Very limited	
		Slope	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00
		Gravel	0.45	Gravel	0.45
297202					
Oquaga	40	Very limited		Very limited	
		Slope	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00
		Gravel	0.17	Gravel	0.17

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297202					
Arnot	30	Very limited		Very limited	
		Slope	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00
Rock outcrop	20	Not rated		Not rated	
297203					
Delaware	93	Very limited		Not limited	
		Flooding	1.00		
297204					
Delaware	82	Very limited		Not limited	
		Flooding	1.00		
297205					
Delaware	80	Very limited		Somewhat limited	
		Flooding	1.00	Slope	0.96
		Slope	0.96		
297207					
Wurtsboro	92	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.95	Depth to saturated zone	0.68
		Gravel	0.04	Gravel	0.04
297208					
Wurtsboro	92	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.95	Depth to saturated zone	0.68
		Slope	0.63	Slope	0.63
		Gravel	0.04	Gravel	0.04
297209					
Philo	85	Very limited		Somewhat limited	
		Flooding	1.00	Flooding	0.40
		Depth to saturated zone	0.07	Depth to saturated zone	0.03
297210					
Barbour	85	Very limited		Somewhat limited	
		Flooding	1.00	Too sandy	0.01
		Too sandy	0.01		
297211					
Wellsboro	89	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	0.94
		Gravel	0.01	Gravel	0.01
297212					
Wellsboro	89	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	0.94
		Slope	0.63	Slope	0.63
		Gravel	0.01	Gravel	0.01

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297213					
Wellsboro	82	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Slope	1.00	Slope	1.00
		Large stones	1.00	Depth to saturated zone	0.94
		Gravel	0.01	Gravel	0.01
297215					
Wellsboro	91	Very limited		Somewhat limited	
		Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Slope	0.63	Slope	0.63
		Gravel	0.62	Gravel	0.62
297216					
Wurtsboro	92	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	0.95	Depth to saturated zone	0.68
297217					
Wurtsboro	88	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	0.95	Depth to saturated zone	0.68
		Slope	0.63	Slope	0.63
297218					
Wurtsboro	88	Very limited		Very limited	
		Slope	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00
		Depth to saturated zone	0.95	Depth to saturated zone	0.68
297221					
Lackawanna	81	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	0.07	Depth to saturated zone	0.03
297223					
Lackawanna	75	Very limited		Very limited	
		Slope	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00
		Depth to saturated zone	0.07	Depth to saturated zone	0.03
297224					
Swartswood	95	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
297225					
Swartswood	95	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	0.63	Slope	0.63
297226					
Swartswood	90	Very limited		Very limited	
		Slope	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297227					
Arnot	88	Very limited		Very limited	
		Gravel	1.00	Gravel	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	0.04	Slope	0.04
297228					
Arnot	85	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	1.00	Gravel	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00
297229					
Wyoming	90	Somewhat limited		Somewhat limited	
		Large stones	0.08	Large stones	0.08
		Gravel	0.06	Gravel	0.06
297230					
Wyoming	90	Somewhat limited		Somewhat limited	
		Slope	0.63	Slope	0.63
		Large stones	0.08	Large stones	0.08
		Gravel	0.06	Gravel	0.06
297231					
Wyoming	90	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Large stones	0.08	Large stones	0.08
		Gravel	0.06	Gravel	0.06
297236					
Suncook	91	Very limited		Somewhat limited	
		Flooding	1.00	Too sandy	0.59
		Too sandy	0.59		
297239					
Mardin	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	0.94
		Gravel	0.01	Gravel	0.01
297240					
Mardin	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	0.94
		Slope	0.63	Slope	0.63
		Gravel	0.01	Gravel	0.01
297241					
Unadilla	90	Not limited		Not limited	
297242					
Shohola	62	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	1.00
Edgemere	29	Not rated		Not rated	

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297243					
Shohola	62	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	1.00
		Slope	0.63	Slope	0.63
Edgemere	29	Not rated		Not rated	
297244					
Lordstown	40	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
Swartswood	35	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
297245					
Lordstown	40	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	0.63	Slope	0.63
Swartswood	35	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	0.63	Slope	0.63
297246					
Lordstown	40	Very limited		Very limited	
		Slope	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00
Swartswood	35	Very limited		Very limited	
		Slope	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00
297247					
Chenango	86	Somewhat limited		Somewhat limited	
		Gravel	0.12	Gravel	0.12
297248					
Chenango	85	Somewhat limited		Somewhat limited	
		Slope	0.63	Slope	0.63
		Gravel	0.12	Gravel	0.12
297249					
Chenango	90	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Gravel	0.12	Gravel	0.12
297250					
Lordstown	94	Somewhat limited		Somewhat limited	
		Large stones	0.53	Large stones	0.53
297251					
Lordstown	86	Somewhat limited		Somewhat limited	
		Slope	0.63	Slope	0.63
		Large stones	0.53	Large stones	0.53
297253					
Craigsville	50	Very limited		Very limited	
		Flooding	1.00	Large stones	1.00
		Large stones	1.00		

Table 7a.--Recreational Development, Part I (Camp and Picnic Areas)--Continued

Map unit symbol and soil name	Pct. of map unit	Camp areas		Picnic areas	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297253					
Wyoming	40	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Gravel	0.06	Gravel	0.06
297254					
Pits, shale	40	Not rated		Not rated	
Pits, gravel	40	Not rated		Not rated	
309440					
Edgemere	42	Not rated		Not rated	
Shohola	42	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	1.00
		Slope	0.04	Slope	0.04
319863					
Oquaga	40	Very limited		Very limited	
		Slope	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00
		Gravel	0.17	Gravel	0.17
Arnot	30	Very limited		Very limited	
		Slope	1.00	Large stones	1.00
		Large stones	1.00	Slope	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00
Rock outcrop	20	Not rated		Not rated	
319865					
Wellsboro	89	Very limited		Very limited	
		Depth to saturated zone	1.00	Large stones	1.00
		Large stones	1.00	Depth to saturated zone	0.94
		Gravel	0.01	Gravel	0.01
741008					
Oquaga	78	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00

Table 7b.--Recreational Development, Part II (Trail Management)

[Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table]

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290457					
Barbour	85	Not limited		Not limited	
290461					
Bath	80	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.22	Depth to saturated zone	0.22
290465					
Cadosia	75	Very limited		Somewhat limited	
		Slope	1.00	Large stones	0.53
		Large stones	0.53		
290466					
Cadosia	75	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Large stones	0.53	Large stones	0.53
290468					
Chenango	85	Not limited		Not limited	
290483					
Fluvaquents	45	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00
		Flooding	0.40	Flooding	0.40
Udifluvents	35	Somewhat limited		Somewhat limited	
		Flooding	0.40	Flooding	0.40
290484					
Halcott	25	Somewhat limited		Somewhat limited	
		Large stones	0.53	Large stones	0.53
Mongaup	25	Somewhat limited		Somewhat limited	
		Large stones	0.53	Large stones	0.53
Vly	25	Somewhat limited		Somewhat limited	
		Large stones	0.53	Large stones	0.53
290485					
Halcott	25	Very limited		Somewhat limited	
		Slope	1.00	Large stones	0.53
		Large stones	0.53		
Mongaup	25	Very limited		Somewhat limited	
		Slope	1.00	Large stones	0.53
		Large stones	0.53		
Vly	25	Very limited		Somewhat limited	
		Slope	1.00	Large stones	0.53
		Large stones	0.53		

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290487					
Lackawanna	80	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.04	Depth to saturated zone	0.04
290488					
Lackawanna	80	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.04	Depth to saturated zone	0.04
290489					
Lackawanna	80	Somewhat limited		Somewhat limited	
		Slope	0.50	Depth to saturated zone	0.04
		Depth to saturated zone	0.04		
290490					
Lackawanna	80	Very limited		Somewhat limited	
		Slope	1.00	Slope	0.56
		Depth to saturated zone	0.04	Depth to saturated zone	0.04
290491					
Lackawanna	50	Somewhat limited		Somewhat limited	
		Large stones	0.53	Large stones	0.53
		Depth to saturated zone	0.04	Depth to saturated zone	0.04
Bath	30	Somewhat limited		Somewhat limited	
		Large stones	0.53	Large stones	0.53
		Depth to saturated zone	0.22	Depth to saturated zone	0.22
290492					
Lackawanna	50	Very limited		Somewhat limited	
		Slope	1.00	Large stones	0.53
		Large stones	0.53	Depth to saturated zone	0.04
		Depth to saturated zone	0.04		
Bath	30	Very limited		Somewhat limited	
		Slope	1.00	Large stones	0.53
		Large stones	0.53	Depth to saturated zone	0.22
		Depth to saturated zone	0.22		
290493					
Lackawanna	50	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Large stones	0.53	Large stones	0.53
		Depth to saturated zone	0.04	Depth to saturated zone	0.04
Bath	30	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Large stones	0.53	Large stones	0.53
		Depth to saturated zone	0.22	Depth to saturated zone	0.22
290506					
Lordstown	80	Not limited		Not limited	

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290507					
Lordstown	80	Not limited		Not limited	
290509					
Lordstown	80	Very limited		Somewhat limited	
		Slope	1.00	Slope	0.56
290510					
Maplecrest	80	Not limited		Not limited	
290511					
Maplecrest	80	Not limited		Not limited	
290512					
Maplecrest	80	Somewhat limited		Not limited	
		Slope	0.50		
290514					
Mardin	80	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.78	Depth to saturated zone	0.78
290515					
Mardin	80	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.78	Depth to saturated zone	0.78
290519					
Mongaup	80	Not limited		Not limited	
290522					
Morris	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
290523					
Morris	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
290525					
Morris	50	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Large stones	0.53	Large stones	0.53
Volusia	30	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Large stones	0.53	Large stones	0.53
290526					
Norchip	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
290535					
Oquaga	80	Not limited		Not limited	
290536					
Oquaga	80	Not limited		Not limited	

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290539					
Oquaga	80	Very limited		Very limited	
		Slope	1.00	Slope	1.00
290540					
Oquaga	25	Somewhat limited		Somewhat limited	
		Large stones	0.53	Large stones	0.53
Lordstown	25	Somewhat limited		Somewhat limited	
		Large stones	0.53	Large stones	0.53
Arnot	25	Somewhat limited		Somewhat limited	
		Large stones	0.53	Large stones	0.53
290541					
Oquaga	25	Very limited		Somewhat limited	
		Slope	1.00	Large stones	0.53
		Large stones	0.53		
Lordstown	25	Very limited		Somewhat limited	
		Slope	1.00	Large stones	0.53
		Large stones	0.53		
Arnot	25	Very limited		Somewhat limited	
		Slope	1.00	Large stones	0.53
		Large stones	0.53		
290542					
Oquaga	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Large stones	0.53	Large stones	0.53
Lordstown	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Large stones	0.53	Large stones	0.53
Arnot	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Large stones	0.53	Large stones	0.53
290544					
Pits, gravel	85	Very limited		Very limited	
		Too sandy	1.00	Too sandy	1.00
		Gravel	1.00	Gravel	1.00
290546					
Raypol	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00
290547					
Red Hook	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
290548					
Riverhead	85	Not limited		Not limited	
290549					
Riverhead	85	Not limited		Not limited	

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290555					
Torull	40	Not rated		Not rated	
Gretor	40	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
290556					
Tunkhannock	85	Not limited		Not limited	
290562					
Tunkhannock	50	Not limited		Not limited	
Chenango	30	Not limited		Not limited	
290563					
Udorthents	80	Not rated		Not rated	
290565					
Unadilla	80	Not limited		Not limited	
290567					
Valois	80	Not limited		Not limited	
290568					
Valois	80	Not limited		Not limited	
290569					
Valois	80	Somewhat limited Slope	0.50	Not limited	
290570					
Valois	80	Very limited Slope	1.00	Very limited Slope	1.00
290576					
Volusia	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
290578					
Wellsboro	80	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86
290579					
Wellsboro	80	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86
290581					
Wellsboro	50	Somewhat limited Depth to saturated zone Large stones	0.86 0.53	Somewhat limited Depth to saturated zone Large stones	0.86 0.53
Mardin	30	Somewhat limited Depth to saturated zone Large stones	0.78 0.53	Somewhat limited Depth to saturated zone Large stones	0.78 0.53

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290582					
Wenonah	85	Not limited		Not limited	
290592					
Carlisle	45	Not rated		Not rated	
Palms	40	Not rated		Not rated	
293892					
Alden, extremely stony	75	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00
293895					
Arnot	50	Not limited		Not limited	
Lordstown	35	Not rated		Not rated	
293896					
Arnot	60	Somewhat limited		Not limited	
		Slope	0.50		
Lordstown	30	Not rated		Not rated	
293897					
Arnot	65	Very limited		Very limited	
		Slope	1.00	Slope	1.00
Lordstown	25	Not rated		Not rated	
293921					
Erie, extremely stony	80	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
293929					
Hoosic	80	Not limited		Not limited	
293930					
Hoosic	80	Not limited		Not limited	
293931					
Hoosic	80	Somewhat limited		Not limited	
		Slope	0.50		
293932					
Lordstown	80	Not rated		Not rated	
293939					
Middlebury	80	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
293943					
Otisville	80	Not limited		Not limited	

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
293944					
Otisville	80	Not limited		Not limited	
293945					
Otisville	80	Somewhat limited		Not limited	
		Slope	0.50		
293946					
Otisville	40	Very limited		Somewhat limited	
		Slope	1.00	Slope	0.22
Hoosic	40	Very limited		Somewhat limited	
		Slope	1.00	Slope	0.22
293949					
Pits, gravel	75	Not rated		Not rated	
293961					
Rock outcrop	50	Not rated		Not rated	
Arnot	35	Not limited		Not limited	
293962					
Rock outcrop	50	Not rated		Not rated	
Arnot	40	Somewhat limited		Not limited	
		Slope	0.50		
293963					
Rock outcrop	60	Not rated		Not rated	
Arnot	30	Very limited		Very limited	
		Slope	1.00	Slope	1.00
293975					
Suncook	80	Not limited		Not limited	
293979					
Swartswood, very stony	40	Somewhat limited		Somewhat limited	
		Large stones	0.53	Large stones	0.53
Mardin	40	Somewhat limited		Somewhat limited	
		Large stones	0.53	Large stones	0.53
		Depth to saturated zone	0.08	Depth to saturated zone	0.08
293980					
Swartswood, very stony	40	Very limited		Somewhat limited	
		Slope	1.00	Large stones	0.53
		Large stones	0.53		
Mardin	40	Very limited		Somewhat limited	
		Slope	1.00	Large stones	0.53
		Large stones	0.53	Depth to saturated zone	0.08
		Depth to saturated zone	0.08		

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
293981					
Swartswood, very stony	40	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Large stones	0.53	Large stones	0.53
Mardin	35	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Large stones	0.53	Large stones	0.53
		Depth to saturated zone	0.08	Depth to saturated zone	0.08
293983					
Udifluvents, frequently flooded	45	Somewhat limited		Somewhat limited	
		Flooding	0.40	Flooding	0.40
Fluvaquents	30	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00
		Flooding	0.40	Flooding	0.40
295043					
Alden	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00
295044					
Arnot	40	Not rated		Not rated	
Lordstown	40	Not rated		Not rated	
295045					
Arnot	40	Not rated		Not rated	
Lordstown	40	Not rated		Not rated	
295046					
Arnot	45	Not rated		Not rated	
Oquaga	40	Not rated		Not rated	
295047					
Arnot	50	Not rated		Not rated	
Oquaga	35	Not rated		Not rated	
295048					
Arnot	60	Not rated		Not rated	
Rock outcrop	25	Not rated		Not rated	
295049					
Arnot	55	Not rated		Not rated	
Rock outcrop	30	Not rated		Not rated	

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295050					
Arnot	45	Not rated		Not rated	
Rock outcrop	40	Not rated		Not rated	
295051					
Barbour	85	Not limited		Not limited	
295052					
Bash	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
295053					
Carlisle	85	Not rated		Not rated	
295054					
Carlisle, ponded	25	Not rated		Not rated	
Palms, ponded	25	Not rated		Not rated	
Alden, ponded	25	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00
295055					
Chenango	85	Not limited		Not limited	
295056					
Chenango	85	Not limited		Not limited	
295057					
Chenango	85	Not limited		Not limited	
295059					
Cheshire, stony	85	Not limited		Not limited	
295060					
Cheshire, stony	85	Not limited		Not limited	
295061					
Cheshire, stony	85	Somewhat limited		Not limited	
		Slope	0.50		
295062					
Cheshire, stony	85	Very limited		Somewhat limited	
		Slope	1.00	Slope	0.22
295063					
Cheshire, stony	85	Very limited		Very limited	
		Slope	1.00	Slope	1.00
295069					
Fluvaquents	45	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00
		Flooding	0.40	Flooding	0.40

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295069 Udifluvents, frequently flooded-	40	Somewhat limited Flooding	0.40	Somewhat limited Flooding	0.40
295074 Lackawanna----------	80	Not rated		Not rated	
295075 Lackawanna----------	85	Not rated		Not rated	
295076 Lackawanna----------	85	Not rated		Not rated	
295082 Lordstown, stony----	85	Not rated		Not rated	
295083 Lordstown, very stony----------	55	Not rated		Not rated	
Arnot, very stony---	25	Not rated		Not rated	
295092 Morris----------	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
295093 Morris----------	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
295094 Morris----------	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
295095 Neversink----------	80	Not rated		Not rated	
295101 Oquaga----------	85	Not rated		Not rated	
295102 Oquaga----------	50	Not rated		Not rated	
Arnot----------	35	Not rated		Not rated	
295103 Oquaga----------	50	Not rated		Not rated	
Arnot----------	35	Not rated		Not rated	
295105 Otisville----------	85	Somewhat limited Too sandy	0.82	Somewhat limited Too sandy	0.82
295106 Otisville----------	85	Somewhat limited Too sandy	0.82	Somewhat limited Too sandy	0.82

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295107 Otisville	85	Somewhat limited Too sandy	0.82	Somewhat limited Too sandy	0.82
295109 Palms	85	Not rated		Not rated	
295110 Philo	85	Somewhat limited Depth to saturated zone	0.44	Somewhat limited Depth to saturated zone	0.44
295111 Pits, gravel	80	Not rated		Not rated	
295112 Pits, quarry	80	Not rated		Not rated	
295113 Pompton	85	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86
295114 Pompton	85	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86
295115 Pope, occasionally flooded	85	Not limited		Not limited	
295116 Pope, rarely flooded	85	Not limited		Not limited	
295117 Raynham, poorly drained	50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
Raynham, somewhat poorly drained	30	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
295118 Red Hook	80	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
295119 Riverhead	85	Not limited		Not limited	
295120 Riverhead	85	Not limited		Not limited	
295121 Riverhead	85	Not limited		Not limited	

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295122					
Scio	80	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.44	Depth to saturated zone	0.44
295123					
Scriba, stony	80	Not rated		Not rated	
295124					
Scriba, stony	75	Not rated		Not rated	
295125					
Scriba, extremely stony	40	Not rated		Not rated	
Morris, extremely stony	40	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
295126					
Suncook	80	Not limited		Not limited	
295129					
Swartswood	85	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.04	Depth to saturated zone	0.04
295130					
Swartswood	85	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.04	Depth to saturated zone	0.04
295131					
Swartswood	85	Somewhat limited		Somewhat limited	
		Slope	0.50	Depth to saturated zone	0.04
		Depth to saturated zone	0.04		
295132					
Swartswood, stony	40	Not rated		Not rated	
Lackawanna, stony	40	Not rated		Not rated	
295133					
Swartswood, very stony	40	Not rated		Not rated	
Lackawanna, very stony	40	Not rated		Not rated	
295134					
Swartswood, very stony	40	Not rated		Not rated	
Lackawanna, very stony	40	Not rated		Not rated	

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295136					
Tuller, somewhat poorly drained	40	Not rated		Not rated	
Tuller, poorly drained	20	Not rated		Not rated	
Rock outcrop	20	Not rated		Not rated	
295137					
Tunkhannock	85	Not limited		Not limited	
295138					
Tunkhannock	85	Not limited		Not limited	
295139					
Tunkhannock	85	Not limited		Not limited	
295140					
Tunkhannock	85	Somewhat limited		Not limited	
		Slope	0.50		
295141					
Tunkhannock	45	Very limited		Somewhat limited	
		Slope	1.00	Slope	0.22
Otisville	40	Very limited		Somewhat limited	
		Slope	1.00	Too sandy	0.82
		Too sandy	0.82	Slope	0.22
295142					
Tunkhannock	45	Very limited		Very limited	
		Slope	1.00	Slope	1.00
Otisville	40	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Too sandy	0.82	Too sandy	0.82
295143					
Udorthents	75	Not rated		Not rated	
295144					
Unadilla	85	Not limited		Not limited	
295145					
Unadilla	85	Not limited		Not limited	
295146					
Valois	80	Not rated		Not rated	
295147					
Valois	80	Not rated		Not rated	
295148					
Valois	80	Not rated		Not rated	
295149					
Valois	80	Not rated		Not rated	
295150					
Valois	80	Not rated		Not rated	

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295153					
Wayland	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00
		Flooding	0.40	Flooding	0.40
295154					
Wellsboro	85	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.32	Depth to saturated zone	0.32
295155					
Wellsboro	85	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.32	Depth to saturated zone	0.32
295156					
Wellsboro	85	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.32	Depth to saturated zone	0.32
295157					
Wellsboro, extremely stony	40	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	0.32	Depth to saturated zone	0.32
Wurtsboro, extremely stony	40	Not rated		Not rated	
295162					
Wurtsboro, stony	85	Not rated		Not rated	
295163					
Wurtsboro, stony	85	Not rated		Not rated	
295164					
Wurtsboro, stony	85	Not rated		Not rated	
296588					
Arnot	90	Not limited		Not limited	
296589					
Arnot	90	Not limited		Not limited	
296590					
Arnot	95	Somewhat limited		Not limited	
		Slope	0.50		
296591					
Barbour	70	Not limited		Not limited	
296592					
Basher	87	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.08	Depth to saturated zone	0.08

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296593					
Fluvents	70	Somewhat limited		Somewhat limited	
		Flooding	0.40	Flooding	0.40
Fluvaquents	20	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	0.40	Flooding	0.40
296594					
Holly	95	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00
		Flooding	0.40	Flooding	0.40
296595					
Linden	85	Not limited		Not limited	
296596					
Lordstown	94	Not limited		Not limited	
296599					
Lordstown	80	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
296600					
Lordstown	90	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	0.08		
296601					
Medihemists	60	Not rated		Not rated	
Medifibrists	30	Not rated		Not rated	
296602					
Mardin	90	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
		Large stones	0.14	Large stones	0.14
296603					
Mardin	90	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
		Large stones	0.14	Large stones	0.14
296604					
Mardin	90	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
		Slope	0.50	Large stones	0.14
		Large stones	0.14		
296605					
Mardin	90	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	0.86	Depth to saturated zone	0.86

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296606					
Mardin	85	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
		Slope	0.08		
296608					
Morris	75	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
296609					
Morris	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
296610					
Morris	75	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
296611					
Morris	90	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
296613					
Norwich	63	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00
Chippewa	33	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
296614					
Oquaga	85	Not limited		Not limited	
296615					
Oquaga	85	Not limited		Not limited	
296616					
Oquaga	85	Somewhat limited		Not limited	
		Slope	0.50		
296617					
Oquaga	85	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
296618					
Oquaga	85	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	0.08		

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296619					
Oquaga	45	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	1.00	Slope	1.00
Lordstown	20	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	1.00	Slope	1.00
296621					
Quarries	100	Not rated		Not rated	
296622					
Rexford, poorly drained	45	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
Rexford, somewhat poorly drained	40	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
296623					
Rock outcrop	70	Not rated		Not rated	
Arnot	20	Not limited		Not limited	
296625					
Swartswood	90	Not limited		Not limited	
296628					
Swartswood	90	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	0.08		
296630					
Volusia	75	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
296632					
Volusia	75	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
296633					
Volusia	90	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
296634					
Wellsboro	80	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
		Large stones	0.14	Large stones	0.14

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296635					
Wellsboro	85	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
		Large stones	0.14	Large stones	0.14
296636					
Wellsboro		Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
		Large stones	0.14	Large stones	0.14
296637					
Wellsboro	80	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
296638					
Wellsboro	85	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
		Slope	0.08		
296639					
Wellsboro	70	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	1.00	Slope	0.96
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
Mardin	20	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	1.00	Slope	0.96
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
296640					
Wyoming	85	Not limited		Not limited	
296641					
Wyoming	85	Not limited		Not limited	
296642					
Wyoming	85	Somewhat limited		Not limited	
		Slope	0.50		
296643					
Wyoming	90	Very limited		Somewhat limited	
		Slope	1.00	Slope	0.78
296644					
Water	100	Not rated		Not rated	
297185					
Edgemere	42	Not rated		Not rated	
Shohola	42	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297186					
Edgemere	75	Not rated		Not rated	
297188					
Manlius	40	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	0.92		
Arnot	35	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	0.92		
Rock outcrop	15	Not rated		Not rated	
297189					
Manlius	40	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	1.00	Slope	1.00
Arnot	35	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	1.00	Slope	1.00
Rock outcrop	15	Not rated		Not rated	
297190					
Braceville	82	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.11	Depth to saturated zone	0.11
297191					
Wyalusing	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	0.40	Flooding	0.40
297192					
Pope	95	Somewhat limited		Somewhat limited	
		Flooding	0.40	Flooding	0.40
297193					
Paupack	90	Not rated		Not rated	
297194					
Morris	82	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Large stones	0.53	Large stones	0.53
297196					
Freetown	94	Not rated		Not rated	
297199					
Oquaga	78	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
297200					
Oquaga	78	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297201					
Oquaga	75	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	0.92		
297202					
Oquaga	40	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	1.00	Slope	1.00
Arnot	30	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	1.00	Slope	1.00
Rock outcrop	20	Not rated		Not rated	
297203					
Delaware	93	Not limited		Not limited	
297204					
Delaware	82	Not limited		Not limited	
297205					
Delaware	80	Not limited		Not limited	
297207					
Wurtsboro	92	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.32	Depth to saturated zone	0.32
297208					
Wurtsboro	92	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.32	Depth to saturated zone	0.32
297209					
Philo	85	Somewhat limited		Somewhat limited	
		Flooding	0.40	Flooding	0.40
297210					
Barbour	85	Somewhat limited		Somewhat limited	
		Too sandy	0.01	Too sandy	0.01
297211					
Wellsboro	89	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
297212					
Wellsboro	89	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
297213					
Wellsboro	82	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
		Slope	0.50		

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297215					
Wellsboro	91	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
297216					
Wurtsboro	92	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	0.32	Depth to saturated zone	0.32
297217					
Wurtsboro	88	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	0.32	Depth to saturated zone	0.32
297218					
Wurtsboro	88	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	0.50	Depth to saturated zone	0.32
		Depth to saturated zone	0.32		
297221					
Lackawanna	81	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
297223					
Lackawanna	75	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	0.92		
297224					
Swartswood	95	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
297225					
Swartswood	95	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
297226					
Swartswood	90	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	0.92		
297227					
Arnot	88	Not limited		Not limited	
297228					
Arnot	85	Very limited		Not limited	
		Slope	1.00		
297229					
Wyoming	90	Somewhat limited		Somewhat limited	
		Large stones	0.08	Large stones	0.08
297230					
Wyoming	90	Somewhat limited		Somewhat limited	
		Large stones	0.08	Large stones	0.08

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297231					
Wyoming	90	Somewhat limited		Somewhat limited	
		Slope	0.92	Large stones	0.08
		Large stones	0.08		
297236					
Suncook	91	Somewhat limited		Somewhat limited	
		Too sandy	0.59	Too sandy	0.59
297239					
Mardin	85	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
297240					
Mardin	85	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	0.86	Depth to saturated zone	0.86
297241					
Unadilla	90	Not limited		Not limited	
297242					
Shohola	62	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
Edgemere	29	Not rated		Not rated	
297243					
Shohola	62	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
Edgemere	29	Not rated		Not rated	
297244					
Lordstown	40	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
Swartswood	35	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
297245					
Lordstown	40	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
Swartswood	35	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
297246					
Lordstown	40	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	0.92		

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297246					
Swartswood	35	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	0.92		
297247					
Chenango	86	Not limited		Not limited	
297248					
Chenango	85	Not limited		Not limited	
297249					
Chenango	90	Somewhat limited		Not limited	
		Slope	0.50		
297250					
Lordstown	94	Somewhat limited		Somewhat limited	
		Large stones	0.53	Large stones	0.53
297251					
Lordstown	86	Somewhat limited		Somewhat limited	
		Large stones	0.53	Large stones	0.53
297253					
Craigsville	50	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
Wyoming	40	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
297254					
Pits, shale	40	Not rated		Not rated	
Pits, gravel	40	Not rated		Not rated	
309440					
Edgemere	42	Not rated		Not rated	
Shohola	42	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
319863					
Oquaga	40	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	1.00	Slope	1.00
Arnot	30	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Slope	1.00	Slope	1.00
Rock outcrop	20	Not rated		Not rated	
319865					
Wellsboro	89	Very limited		Very limited	
		Large stones	1.00	Large stones	1.00
		Depth to saturated zone	0.86	Depth to saturated zone	0.86

Table 7b.--Recreational Development, Part II (Trail Management)--Continued

Map unit symbol and soil name	Pct. of map unit	Foot traffic and equestrian trails		Mountain bike and off-road vehicle trails	
		Rating class and limiting features	Value	Rating class and limiting features	Value
741008 Oquaga	78	Very limited Large stones	1.00	Very limited Large stones	1.00

Table 8.--Dwellings and Small Commercial Buildings

[Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table]

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290457							
Barbour	85	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
				Depth to saturated zone	0.35		
290461							
Bath	80	Somewhat limited		Very limited		Very limited	
		Depth to saturated zone	0.90	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	0.90
		Depth to thin cemented pan	0.50				
290465							
Cadosia	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
290466							
Cadosia	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
290468							
Chenango	85	Not limited		Not limited		Somewhat limited	
						Slope	0.50
290483							
Fluvaquents	45	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
Udifluvents	35	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
				Depth to saturated zone	0.61		
290484							
Halcott	25	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
		Slope	0.04	Slope	0.04	Slope	1.00
Mongaup	25	Somewhat limited		Very limited		Very limited	
		Depth to hard bedrock	0.64	Depth to hard bedrock	1.00	Slope	1.00
		Slope	0.04	Slope	0.04	Depth to hard bedrock	0.64
Vly	25	Somewhat limited		Very limited		Very limited	
		Depth to hard bedrock	0.35	Depth to hard bedrock	1.00	Slope	1.00
		Slope	0.04	Slope	0.04	Depth to hard bedrock	0.35

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290485							
Halcott	25	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
Mongaup	25	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.64	Depth to hard bedrock	1.00	Depth to hard bedrock	0.64
Vly	25	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.35	Depth to hard bedrock	1.00	Depth to hard bedrock	0.35
290487							
Lackawanna	80	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.67	Depth to saturated zone	1.00	Depth to saturated zone	0.67
		Depth to thin cemented pan	0.50			Slope	0.50
290488							
Lackawanna	80	Somewhat limited		Very limited		Very limited	
		Depth to saturated zone	0.67	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	0.67
		Depth to thin cemented pan	0.50				
290489							
Lackawanna	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.67	Depth to saturated zone	1.00	Depth to saturated zone	0.67
		Depth to thin cemented pan	0.50				
290490							
Lackawanna	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.67	Depth to saturated zone	1.00	Depth to saturated zone	0.67
		Depth to thin cemented pan	0.50				
290491							
Lackawanna	50	Somewhat limited		Very limited		Very limited	
		Depth to saturated zone	0.67	Depth to saturated zone	1.00	Slope	1.00
		Depth to thin cemented pan	0.50	Slope	0.04	Depth to saturated zone	0.67
		Slope	0.04				
Bath	30	Somewhat limited		Very limited		Very limited	
		Depth to saturated zone	0.90	Depth to saturated zone	1.00	Slope	1.00
		Depth to thin cemented pan	0.50	Slope	0.04	Depth to saturated zone	0.90
		Slope	0.04				

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290492							
Lackawanna	50	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.67	Depth to saturated zone	1.00	Depth to saturated zone	0.67
		Depth to thin cemented pan	0.50				
Bath	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.90	Depth to saturated zone	1.00	Depth to saturated zone	0.90
		Depth to thin cemented pan	0.50				
290493							
Lackawanna	50	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.67	Depth to saturated zone	1.00	Depth to saturated zone	0.67
		Depth to thin cemented pan	0.50				
Bath	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.90	Depth to saturated zone	1.00	Depth to saturated zone	0.90
		Depth to thin cemented pan	0.50				
290506							
Lordstown	80	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.29	Depth to hard bedrock	1.00	Depth to hard bedrock	0.29
						Slope	0.12
290507							
Lordstown	80	Somewhat limited		Very limited		Very limited	
		Slope	0.63	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.29	Slope	0.63	Depth to hard bedrock	0.29
290509							
Lordstown	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.29	Depth to hard bedrock	1.00	Depth to hard bedrock	0.29
290510							
Maplecrest	80	Not limited		Not limited		Somewhat limited	
						Slope	0.50
290511							
Maplecrest	80	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Slope	1.00
290512							
Maplecrest	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290514							
Mardin	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50			Slope	0.50
290515							
Mardin	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
290519							
Mongaup	80	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.64	Depth to hard bedrock	1.00	Depth to hard bedrock	0.64
						Slope	0.12
290522							
Morris	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
290523							
Morris	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
						Slope	0.50
290525							
Morris	50	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
						Slope	0.50
Volusia	30	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50			Slope	0.50
290526							
Norchip	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
290535							
Oquaga	80	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.90	Depth to hard bedrock	1.00	Depth to hard bedrock	0.90
						Slope	0.12
290536							
Oquaga	80	Somewhat limited		Very limited		Very limited	
		Depth to hard bedrock	0.90	Depth to hard bedrock	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to hard bedrock	0.90

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290539							
Oquaga	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.90	Depth to hard bedrock	1.00	Depth to hard bedrock	0.90
290540							
Oquaga	25	Somewhat limited		Very limited		Very limited	
		Depth to hard bedrock	0.90	Depth to hard bedrock	1.00	Slope	1.00
		Slope	0.04	Slope	0.04	Depth to hard bedrock	0.90
Lordstown	25	Somewhat limited		Very limited		Very limited	
		Depth to hard bedrock	0.29	Depth to hard bedrock	1.00	Slope	1.00
		Slope	0.04	Slope	0.04	Depth to hard bedrock	0.29
Arnot	25	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
		Slope	0.04	Slope	0.04	Slope	1.00
290541							
Oquaga	25	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.90	Depth to hard bedrock	1.00	Depth to hard bedrock	0.90
Lordstown	25	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.29	Depth to hard bedrock	1.00	Depth to hard bedrock	0.29
Arnot	25	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
290542							
Oquaga	25	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.90	Depth to hard bedrock	1.00	Depth to hard bedrock	0.90
Lordstown	25	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.29	Depth to hard bedrock	1.00	Depth to hard bedrock	0.29
Arnot	25	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
290544							
Pits, gravel	85	Not limited		Not limited		Not limited	

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290546							
Raypol	80	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
290547							
Red Hook	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
290548							
Riverhead	85	Not limited		Not limited		Not limited	
290549							
Riverhead	85	Not limited		Not limited		Somewhat limited	
						Slope	0.50
290555							
Torull	40	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
Gretor	40	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to hard bedrock	0.79	Depth to hard bedrock	1.00	Depth to hard bedrock	0.79
290556							
Tunkhannock	85	Not limited		Not limited		Not limited	
290562							
Tunkhannock	50	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
				Depth to saturated zone	0.35	Slope	0.50
Chenango	30	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
				Depth to saturated zone	0.35	Slope	0.50
290563							
Udorthents	80	Not rated		Not rated		Not rated	
290565							
Unadilla	80	Not limited		Not limited		Not limited	
290567							
Valois	80	Not limited		Not limited		Somewhat limited	
						Slope	0.50
290568							
Valois	80	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Slope	1.00

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290569							
Valois	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
290570							
Valois	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
290576							
Volusia	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50			Slope	0.50
290578							
Wellsboro	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50			Slope	0.12
290579							
Wellsboro	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
290581							
Wellsboro	50	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50	Slope	0.04	Slope	1.00
		Slope	0.04				
Mardin	30	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50	Slope	0.04	Slope	1.00
		Slope	0.04				
290582							
Wenonah	85	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
				Depth to saturated zone	0.35		
290592							
Carlisle	45	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Subsidence	1.00	Subsidence	1.00	Subsidence	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Organic matter content	1.00	Organic matter content	1.00	Organic matter content	1.00

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290592							
Palms	40	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Subsidence	1.00	Subsidence	1.00	Subsidence	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Organic matter content	1.00			Organic matter content	1.00
293892							
Alden, extremely stony	75	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
293895							
Arnot	50	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to hard bedrock	1.00
Lordstown	35	Somewhat limited		Very limited		Very limited	
		Slope	0.63	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.03	Slope	0.63	Depth to hard bedrock	0.03
293896							
Arnot	60	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
Lordstown	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.10	Depth to hard bedrock	1.00	Depth to hard bedrock	0.10
293897							
Arnot	65	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
Lordstown	25	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.15	Depth to hard bedrock	1.00	Depth to hard bedrock	0.15
293921							
Erie, extremely stony	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00
				Depth to thin cemented pan	1.00	Depth to thin cemented pan	1.00
						Slope	0.50

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293929							
Hoosic	80	Not limited		Not limited		Somewhat limited	
						Slope	0.50
293930							
Hoosic	80	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Slope	1.00
293931							
Hoosic	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
293932							
Lordstown	80	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.01	Depth to hard bedrock	1.00	Slope	0.50
						Depth to hard bedrock	0.01
293939							
Middlebury	80	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
293943							
Otisville	80	Not limited		Not limited		Not limited	
293944							
Otisville	80	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Slope	1.00
293945							
Otisville	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
293946							
Otisville	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
Hoosic	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
293949							
Pits, gravel	75	Not rated		Not rated		Not rated	
293961							
Rock outcrop	50	Not rated		Not rated		Not rated	
Arnot	35	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to hard bedrock	1.00
293962							
Rock outcrop	50	Not rated		Not rated		Not rated	
Arnot	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293963							
Rock outcrop	60	Not rated		Not rated		Not rated	
Arnot	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
293975							
Suncook	80	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
				Depth to saturated zone	0.35		
293979							
Swartswood, very stony	40	Somewhat limited		Very limited		Very limited	
		Slope	0.63	Depth to saturated zone	1.00	Slope	1.00
		Depth to thick cemented pan	0.35	Depth to thick cemented pan	1.00	Depth to thick cemented pan	0.35
		Depth to saturated zone	0.07	Slope	0.63	Depth to saturated zone	0.07
				Depth to thin cemented pan	0.35		
Mardin	40	Very limited		Very limited		Very limited	
		Depth to thick cemented pan	1.00	Depth to saturated zone	1.00	Slope	1.00
		Depth to saturated zone	0.77	Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00
		Slope	0.63	Depth to thin cemented pan	1.00	Depth to thin cemented pan	1.00
				Slope	0.63	Depth to saturated zone	0.77
293980							
Swartswood, very stony	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to thick cemented pan	0.65	Depth to saturated zone	1.00	Depth to thick cemented pan	0.65
		Depth to saturated zone	0.07	Depth to thick cemented pan	1.00	Depth to saturated zone	0.07
				Depth to thin cemented pan	0.65		
Mardin	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to thick cemented pan	1.00	Depth to saturated zone	1.00	Depth to thick cemented pan	1.00
		Depth to saturated zone	0.77	Depth to thick cemented pan	1.00	Depth to thin cemented pan	1.00
				Depth to thin cemented pan	1.00	Depth to saturated zone	0.77

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293981							
Swartswood, very stony	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to thick cemented pan	0.80	Depth to saturated zone	1.00	Depth to thick cemented pan	0.80
		Depth to saturated zone	0.07	Depth to thick cemented pan	1.00	Depth to saturated zone	0.07
				Depth to thin cemented pan	0.79		
Mardin	35	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to thick cemented pan	1.00	Depth to saturated zone	1.00	Depth to thick cemented pan	1.00
		Depth to saturated zone	0.77	Depth to thick cemented pan	1.00	Depth to thin cemented pan	1.00
				Depth to thin cemented pan	1.00	Depth to saturated zone	0.77
293983							
Udifluvents, frequently flooded	45	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
				Depth to saturated zone	0.61		
Fluvaquents	30	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
295043							
Alden	80	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
295044							
Arnot	40	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
						Slope	1.00
Lordstown	40	Somewhat limited		Very limited		Very limited	
		Depth to hard bedrock	0.64	Depth to hard bedrock	1.00	Slope	1.00
						Depth to hard bedrock	0.64
295045							
Arnot	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
Lordstown	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.64	Depth to hard bedrock	1.00	Depth to hard bedrock	0.64

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295046							
Arnot	45	Very limited Depth to hard bedrock	 1.00	Very limited Depth to hard bedrock	 1.00	Very limited Depth to hard bedrock Slope	 1.00 1.00
Oquaga	40	Somewhat limited Depth to hard bedrock	 0.06	Very limited Depth to hard bedrock	 1.00	Very limited Slope Depth to hard bedrock	 1.00 0.06
295047							
Arnot	50	Very limited Slope Depth to hard bedrock	 1.00 1.00	Very limited Slope Depth to hard bedrock	 1.00 1.00	Very limited Slope Depth to hard bedrock	 1.00 1.00
Oquaga	35	Very limited Slope Depth to hard bedrock	 1.00 0.06	Very limited Slope Depth to hard bedrock	 1.00 1.00	Very limited Slope Depth to hard bedrock	 1.00 0.06
295048							
Arnot	60	Very limited Depth to hard bedrock	 1.00	Very limited Depth to hard bedrock	 1.00	Very limited Depth to hard bedrock Slope	 1.00 1.00
Rock outcrop	25	Not rated		Not rated		Not rated	
295049							
Arnot	55	Very limited Slope Depth to hard bedrock	 1.00 1.00	Very limited Slope Depth to hard bedrock	 1.00 1.00	Very limited Slope Depth to hard bedrock	 1.00 1.00
Rock outcrop	30	Not rated		Not rated		Not rated	
295050							
Arnot	45	Very limited Slope Depth to hard bedrock	 1.00 1.00	Very limited Slope Depth to hard bedrock	 1.00 1.00	Very limited Slope Depth to hard bedrock	 1.00 1.00
Rock outcrop	40	Not rated		Not rated		Not rated	
295051							
Barbour	85	Very limited Flooding	 1.00	Very limited Flooding Depth to saturated zone	 1.00 0.35	Very limited Flooding	 1.00
295052							
Bash	85	Very limited Flooding Depth to saturated zone	 1.00 1.00	Very limited Flooding Depth to saturated zone	 1.00 1.00	Very limited Flooding Depth to saturated zone	 1.00 1.00

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295053							
Carlisle	85	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Subsidence	1.00	Subsidence	1.00	Subsidence	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Organic matter content	1.00	Organic matter content	1.00	Organic matter content	1.00
295054							
Carlisle, ponded	25	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Subsidence	1.00	Subsidence	1.00	Subsidence	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Organic matter content	1.00	Organic matter content	1.00	Organic matter content	1.00
Palms, ponded	25	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Subsidence	1.00	Subsidence	1.00	Subsidence	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
Alden, ponded	25	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
295055							
Chenango	85	Not limited		Not limited		Not limited	
295056							
Chenango	85	Not limited		Not limited		Somewhat limited	
						Slope	0.50
295057							
Chenango	85	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Slope	1.00
295059							
Cheshire, stony	85	Not limited		Not limited		Somewhat limited	
						Slope	0.50
295060							
Cheshire, stony	85	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Slope	1.00
295061							
Cheshire, stony	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
295062							
Cheshire, stony	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
295063							
Cheshire, stony	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295069							
Fluvaquents	45	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
Udifluvents, frequently flooded	40	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
				Depth to saturated zone	0.61		
295074							
Lackawanna	80	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.24	Depth to saturated zone	1.00	Slope	0.50
		Depth to thick cemented pan	0.16	Depth to thick cemented pan	1.00	Depth to saturated zone	0.34
				Depth to thin cemented pan	0.16	Depth to thick cemented pan	0.16
295075							
Lackawanna	85	Somewhat limited		Very limited		Very limited	
		Slope	0.63	Depth to saturated zone	1.00	Slope	1.00
		Depth to saturated zone	0.24	Depth to thick cemented pan	1.00	Depth to saturated zone	0.24
		Depth to thick cemented pan	0.16	Slope	0.63	Depth to thick cemented pan	0.16
				Depth to thin cemented pan	0.16		
295076							
Lackawanna	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.24	Depth to saturated zone	1.00	Depth to saturated zone	0.24
		Depth to thick cemented pan	0.16	Depth to thick cemented pan	1.00	Depth to thick cemented pan	0.16
				Depth to thin cemented pan	0.16		
295082							
Lordstown, stony	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.64	Depth to hard bedrock	1.00	Depth to hard bedrock	0.64
						Slope	0.50
295083							
Lordstown, very stony	55	Somewhat limited		Very limited		Very limited	
		Depth to hard bedrock	0.64	Depth to hard bedrock	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to hard bedrock	0.64
Arnot, very stony	25	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to hard bedrock	1.00

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295092							
Morris	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00
				Depth to thin cemented pan	1.00		
295093							
Morris	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00
				Depth to thin cemented pan	1.00	Slope	0.12
295094							
Morris	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to saturated zone	1.00
		Slope	0.16	Depth to thin cemented pan	1.00	Depth to thick cemented pan	1.00
				Slope	0.16		
295095							
Neversink	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
295101							
Oquaga	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.06	Depth to hard bedrock	1.00	Slope	0.50
						Depth to hard bedrock	0.06
295102							
Oquaga	50	Somewhat limited		Very limited		Very limited	
		Slope	0.63	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.06	Slope	0.63	Depth to hard bedrock	0.06
Arnot	35	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to hard bedrock	1.00
295103							
Oquaga	50	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.06	Depth to hard bedrock	1.00	Depth to hard bedrock	0.06
Arnot	35	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295105							
Otisville	85	Not limited		Not limited		Not limited	
295106							
Otisville	85	Not limited		Not limited		Somewhat limited	
						Slope	0.50
295107							
Otisville	85	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Slope	1.00
295109							
Palms	85	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Subsidence	1.00	Subsidence	1.00	Subsidence	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
295110							
Philo	85	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	0.98	Depth to saturated zone	1.00	Depth to saturated zone	0.98
295111							
Pits, gravel	80	Not rated		Not rated		Not rated	
295112							
Pits, quarry	80	Not rated		Not rated		Not rated	
295113							
Pompton	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
295114							
Pompton	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
295115							
Pope, occasionally flooded	85	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
295116							
Pope, rarely flooded	85	Not limited		Not limited		Not limited	
295117							
Raynham, poorly drained	50	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
Raynham, somewhat poorly drained	30	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295118							
Red Hook	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
295119							
Riverhead	85	Not limited		Not limited		Not limited	
295120							
Riverhead	85	Not limited		Not limited		Somewhat limited	
						Slope	0.50
295121							
Riverhead	85	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Slope	1.00
295122							
Scio	80	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.98	Depth to saturated zone	1.00	Depth to saturated zone	0.98
295123							
Scriba, stony	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00
				Depth to thin cemented pan	1.00		
295124							
Scriba, stony	75	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00
				Depth to thin cemented pan	1.00	Slope	0.50
295125							
Scriba, extremely stony	40	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00
				Depth to thin cemented pan	1.00	Slope	0.12
Morris, extremely stony	40	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00
				Depth to thin cemented pan	1.00	Slope	0.12

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295126							
Suncook	80	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
				Depth to saturated zone	0.35		
295129							
Swartswood	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to thick cemented pan	0.80	Depth to saturated zone	1.00	Depth to thick cemented pan	0.80
		Depth to saturated zone	0.67	Depth to thick cemented pan	1.00	Depth to saturated zone	0.67
				Depth to thin cemented pan	0.79	Slope	0.50
295130							
Swartswood	85	Somewhat limited		Very limited		Very limited	
		Depth to thick cemented pan	0.80	Depth to saturated zone	1.00	Slope	1.00
		Depth to saturated zone	0.67	Depth to thick cemented pan	1.00	Depth to thick cemented pan	0.80
		Slope	0.63	Depth to thin cemented pan	0.79	Depth to saturated zone	0.67
				Slope	0.63		
295131							
Swartswood	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to thick cemented pan	0.80	Depth to saturated zone	1.00	Depth to thick cemented pan	0.80
		Depth to saturated zone	0.67	Depth to thick cemented pan	1.00	Depth to saturated zone	0.67
				Depth to thin cemented pan	0.79		
295132							
Swartswood, stony	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to thick cemented pan	0.80	Depth to saturated zone	1.00	Depth to thick cemented pan	0.80
		Depth to saturated zone	0.67	Depth to thick cemented pan	1.00	Depth to saturated zone	0.67
				Depth to thin cemented pan	0.79		
Lackawanna, stony	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.24	Depth to saturated zone	1.00	Depth to saturated zone	0.24
		Depth to thick cemented pan	0.16	Depth to thick cemented pan	1.00	Depth to thick cemented pan	0.16
				Depth to thin cemented pan	0.16		

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295133							
Swartswood, very stony	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to thick cemented pan	0.80	Depth to saturated zone	1.00	Depth to thick cemented pan	0.80
		Depth to saturated zone	0.67	Depth to thick cemented pan	1.00	Depth to saturated zone	0.67
				Depth to thin cemented pan	0.79		
Lackawanna, very stony	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.24	Depth to saturated zone	1.00	Depth to saturated zone	0.24
		Depth to thick cemented pan	0.16	Depth to thick cemented pan	1.00	Depth to thick cemented pan	0.16
				Depth to thin cemented pan	0.16		
295134							
Swartswood, very stony	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to thick cemented pan	0.80	Depth to saturated zone	1.00	Depth to thick cemented pan	0.80
		Depth to saturated zone	0.67	Depth to thick cemented pan	1.00	Depth to saturated zone	0.67
				Depth to thin cemented pan	0.79		
Lackawanna, very stony	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.24	Depth to saturated zone	1.00	Depth to saturated zone	0.24
		Depth to thick cemented pan	0.16	Depth to thick cemented pan	1.00	Depth to thick cemented pan	0.16
				Depth to thin cemented pan	0.16		
295136							
Tuller, somewhat poorly drained	40	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
Tuller, poorly drained	20	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
Rock outcrop	20	Not rated		Not rated		Not rated	
295137							
Tunkhannock	85	Not limited		Not limited		Not limited	

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295138							
Tunkhannock	85	Not limited		Not limited		Somewhat limited	
						Slope	0.50
295139							
Tunkhannock	85	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Slope	1.00
295140							
Tunkhannock	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
295141							
Tunkhannock	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
Otisville	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
295142							
Tunkhannock	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
Otisville	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
295143							
Udorthents	75	Not rated		Not rated		Not rated	
295144							
Unadilla	85	Not limited		Not limited		Not limited	
295145							
Unadilla	85	Not limited		Not limited		Not limited	
295146							
Valois	80	Not limited		Not limited		Somewhat limited	
						Slope	0.50
295147							
Valois	80	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Slope	1.00
295148							
Valois	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
295149							
Valois	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
295150							
Valois	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
295153							
Wayland	85	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295154							
Wellsboro	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.95	Depth to saturated zone	1.00	Depth to saturated zone	0.95
		Depth to thick cemented pan	0.95	Depth to thick cemented pan	1.00	Depth to thick cemented pan	0.95
				Depth to thin cemented pan	0.95		
295155							
Wellsboro	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.95	Depth to saturated zone	1.00	Depth to saturated zone	0.95
		Depth to thick cemented pan	0.95	Depth to thick cemented pan	1.00	Depth to thick cemented pan	0.95
				Depth to thin cemented pan	0.95	Slope	0.50
295156							
Wellsboro	85	Somewhat limited		Very limited		Very limited	
		Depth to saturated zone	0.95	Depth to saturated zone	1.00	Slope	1.00
		Depth to thick cemented pan	0.95	Depth to thick cemented pan	1.00	Depth to saturated zone	0.95
		Slope	0.63	Depth to thin cemented pan	0.95	Depth to thick cemented pan	0.95
				Slope	0.63		
295157							
Wellsboro, extremely stony	40	Somewhat limited		Very limited		Very limited	
		Depth to saturated zone	0.95	Depth to saturated zone	1.00	Slope	1.00
		Depth to thick cemented pan	0.95	Depth to thick cemented pan	1.00	Depth to saturated zone	0.95
				Depth to thin cemented pan	0.95	Depth to thick cemented pan	0.95
Wurtsboro, extremely stony	40	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thick cemented pan	0.65	Depth to thick cemented pan	1.00	Slope	1.00
				Depth to thin cemented pan	0.65	Depth to thick cemented pan	0.65
295162							
Wurtsboro, stony	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thick cemented pan	0.65	Depth to thick cemented pan	1.00	Depth to thick cemented pan	0.65
				Depth to thin cemented pan	0.65		

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295163							
Wurtsboro, stony----	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thick cemented pan	0.65	Depth to thick cemented pan	1.00	Depth to thick cemented pan	0.65
				Depth to thin cemented pan	0.65	Slope	0.50
295164							
Wurtsboro, stony----	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Depth to thick cemented pan	0.65	Depth to thick cemented pan	1.00	Depth to saturated zone	1.00
		Slope	0.63	Depth to thin cemented pan	0.65	Depth to thick cemented pan	0.65
				Slope	0.63		
296588							
Arnot----------	90	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
						Slope	0.50
296589							
Arnot----------	90	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to hard bedrock	1.00
296590							
Arnot----------	95	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
296591							
Barbour----------	70	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
				Depth to saturated zone	0.35		
296592							
Basher----------	87	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	0.77	Depth to saturated zone	1.00	Depth to saturated zone	0.77
296593							
Fluvents----------	70	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
				Depth to saturated zone	0.95		
Fluvaquents---------	20	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296594							
Holly	95	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
296595							
Linden	85	Not limited		Somewhat limited		Not limited	
				Depth to saturated zone	0.35		
296596							
Lordstown	94	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Slope	0.50
						Depth to hard bedrock	0.46
296599							
Lordstown	80	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Slope	0.50
						Depth to hard bedrock	0.46
296600							
Lordstown	90	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Slope	1.00	Depth to hard bedrock	0.46
296601							
Medihemists	60	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Organic matter content	1.00	Organic matter content	1.00	Organic matter content	1.00
		Subsidence	1.00	Subsidence	1.00	Subsidence	1.00
Medifibrists	30	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Subsidence	1.00	Subsidence	1.00	Subsidence	1.00
296602							
Mardin	90	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50			Slope	0.50
296603							
Mardin	90	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296604							
Mardin	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
296605							
Mardin	90	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50			Slope	0.50
296606							
Mardin	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Slope	1.00	Slope	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
296608							
Morris	75	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50			Slope	0.50
296609							
Morris	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.84	Slope	0.84	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
296610							
Morris	75	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
296611							
Morris	90	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
296613							
Norwich	63	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296613							
Chippewa	33	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
296614							
Oquaga	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Slope	0.50
						Depth to hard bedrock	0.46
296615							
Oquaga	85	Somewhat limited		Very limited		Very limited	
		Slope	0.63	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Slope	0.63	Depth to hard bedrock	0.46
296616							
Oquaga	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Depth to hard bedrock	0.46
296617							
Oquaga	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Slope	0.50
						Depth to hard bedrock	0.46
296618							
Oquaga	85	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Slope	1.00	Depth to hard bedrock	0.46
296619							
Oquaga	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Depth to hard bedrock	0.46
Lordstown	20	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Depth to hard bedrock	0.46
		Large stones	0.10	Large stones	0.10	Large stones	0.10
296621							
Quarries	100	Not rated		Not rated		Not rated	
296622							
Rexford, poorly drained	45	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296622							
Rexford, somewhat poorly drained	40	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
296623							
Rock outcrop	70	Not rated		Not rated		Not rated	
Arnot	20	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
		Slope	0.96	Slope	0.96	Slope	1.00
296625							
Swartswood	90	Somewhat limited		Very limited		Very limited	
		Slope	0.63	Depth to saturated zone	1.00	Slope	1.00
		Depth to thin cemented pan	0.50	Slope	0.63	Depth to saturated zone	0.07
		Depth to saturated zone	0.07				
296628							
Swartswood	90	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Slope	1.00
		Depth to thin cemented pan	0.50	Slope	1.00	Depth to saturated zone	0.07
		Depth to saturated zone	0.07	Large stones	0.06	Large stones	0.06
		Large stones	0.06				
296630							
Volusia	75	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50			Slope	0.50
296632							
Volusia	75	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
296633							
Volusia	90	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
296634							
Wellsboro	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50			Slope	0.50

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296635							
Wellsboro	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
296636							
Wellsboro		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
296637							
Wellsboro	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50			Slope	0.50
296638							
Wellsboro	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Slope	1.00	Slope	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
296639							
Wellsboro	70	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
Mardin	20	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
296640							
Wyoming	85	Not limited		Not limited		Somewhat limited	
						Slope	0.50
296641							
Wyoming	85	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Slope	1.00
296642							
Wyoming	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
296643							
Wyoming	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296644							
Water	100	Not rated		Not rated		Not rated	
297185							
Edgemere	42	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50			Slope	0.50
Shohola	42	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50	Slope	0.04	Slope	1.00
		Slope	0.04				
297186							
Edgemere	75	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
297188							
Manlius	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Depth to hard bedrock	0.46
Arnot	35	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
		Large stones	0.10	Large stones	0.10	Large stones	0.10
Rock outcrop	15	Not rated		Not rated		Not rated	
297189							
Manlius	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Depth to hard bedrock	0.46
Arnot	35	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
		Large stones	0.10	Large stones	0.10	Large stones	0.10
Rock outcrop	15	Not rated		Not rated		Not rated	
297190							
Braceville	82	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.81	Depth to saturated zone	1.00	Depth to saturated zone	0.81
		Depth to thin cemented pan	0.50				

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297191							
Wyalusing	85	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
297192							
Pope	95	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
297193							
Paupack	90	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Subsidence	1.00	Subsidence	1.00	Subsidence	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
297194							
Morris	82	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
297196							
Freetown	94	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
297199							
Oquaga	78	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.29	Depth to hard bedrock	1.00	Depth to hard bedrock	0.29
		Large stones	0.07	Large stones	0.07	Large stones	0.07
297200							
Oquaga	78	Somewhat limited		Very limited		Very limited	
		Slope	0.63	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.29	Slope	0.63	Depth to hard bedrock	0.29
		Large stones	0.07	Large stones	0.07	Large stones	0.07
297201							
Oquaga	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.29	Depth to hard bedrock	1.00	Depth to hard bedrock	0.29
		Large stones	0.02	Large stones	0.02	Large stones	0.02
297202							
Oquaga	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Large stones	0.35	Depth to hard bedrock	1.00	Large stones	0.35
		Depth to hard bedrock	0.29	Large stones	0.35	Depth to hard bedrock	0.29
Arnot	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297202							
Rock outcrop	20	Not rated		Not rated		Not rated	
297203							
Delaware	93	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
297204							
Delaware	82	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
						Slope	0.50
297205							
Delaware	80	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Slope	1.00
		Slope	0.96	Slope	0.96	Flooding	1.00
297207							
Wurtsboro	92	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.95	Depth to saturated zone	1.00	Depth to saturated zone	0.95
		Depth to thin cemented pan	0.50				
297208							
Wurtsboro	92	Somewhat limited		Very limited		Very limited	
		Depth to saturated zone	0.95	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	0.95
		Depth to thin cemented pan	0.50				
297209							
Philo	85	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	0.07	Depth to saturated zone	1.00	Depth to saturated zone	0.07
297210							
Barbour	85	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
				Depth to saturated zone	0.35		
297211							
Wellsboro	89	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
297212							
Wellsboro	89	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297213							
Wellsboro	82	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
297215							
Wellsboro	91	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
297216							
Wurtsboro	92	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.95	Depth to saturated zone	1.00	Depth to saturated zone	0.95
		Depth to thin cemented pan	0.50				
297217							
Wurtsboro	88	Somewhat limited		Very limited		Very limited	
		Depth to saturated zone	0.95	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	0.95
		Depth to thin cemented pan	0.50				
297218							
Wurtsboro	88	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.95	Depth to saturated zone	1.00	Depth to saturated zone	0.95
		Depth to thin cemented pan	0.50				
297221							
Lackawanna	81	Somewhat limited		Very limited		Somewhat limited	
		Depth to thin cemented pan	0.50	Depth to saturated zone	1.00	Slope	0.50
		Depth to saturated zone	0.07			Depth to saturated zone	0.07
297223							
Lackawanna	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to thin cemented pan	0.50	Depth to saturated zone	1.00	Depth to saturated zone	0.07
		Depth to saturated zone	0.07				
297224							
Swartswood	95	Somewhat limited		Very limited		Not limited	
		Depth to thin cemented pan	0.50	Depth to saturated zone	1.00		

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297225							
Swartswood	95	Somewhat limited		Very limited		Very limited	
		Slope	0.63	Depth to saturated zone	1.00	Slope	1.00
		Depth to thin cemented pan	0.50	Slope	0.63		
297226							
Swartswood	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to thin cemented pan	0.50	Depth to saturated zone	1.00		
297227							
Arnot	88	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
		Slope	0.04	Slope	0.04	Slope	1.00
297228							
Arnot	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
297229							
Wyoming	90	Somewhat limited		Somewhat limited		Somewhat limited	
		Large stones	0.26	Large stones	0.26	Large stones	0.26
						Slope	0.12
297230							
Wyoming	90	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Slope	1.00
297231							
Wyoming	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Large stones	0.53	Large stones	0.53	Large stones	0.53
297236							
Suncook	91	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
297239							
Mardin	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
297240							
Mardin	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
297241							
Unadilla	90	Not limited		Not limited		Not limited	

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297242							
Shohola	62	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
Edgemere	29	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
297243							
Shohola	62	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
Edgemere	29	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
297244							
Lordstown	40	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Depth to hard bedrock	0.46
Swartswood	35	Somewhat limited		Very limited		Not limited	
		Depth to thin cemented pan	0.50	Depth to saturated zone	1.00		
297245							
Lordstown	40	Somewhat limited		Very limited		Very limited	
		Slope	0.63	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Slope	0.63	Depth to hard bedrock	0.46
Swartswood	35	Somewhat limited		Very limited		Very limited	
		Slope	0.63	Depth to saturated zone	1.00	Slope	1.00
		Depth to thin cemented pan	0.50	Slope	0.63		
297246							
Lordstown	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Depth to hard bedrock	0.46
Swartswood	35	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to thin cemented pan	0.50	Depth to saturated zone	1.00		

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297247							
Chenango	86	Not limited		Not limited		Not limited	
297248							
Chenango	85	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Slope	1.00
297249							
Chenango	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
297250							
Lordstown	94	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Slope	0.50
						Depth to hard bedrock	0.46
297251							
Lordstown	86	Somewhat limited		Very limited		Very limited	
		Slope	0.63	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Slope	0.63	Depth to hard bedrock	0.46
297253							
Craigsville	50	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Large stones	0.99	Large stones	0.99	Large stones	0.99
Wyoming	40	Not limited		Not limited		Not limited	
297254							
Pits, shale	40	Not rated		Not rated		Not rated	
Pits, gravel	40	Not rated		Not rated		Not rated	
309440							
Edgemere	42	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50			Slope	0.50
Shohola	42	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50	Slope	0.04	Slope	1.00
		Slope	0.04				
319863							
Oquaga	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Large stones	0.35	Depth to hard bedrock	1.00	Large stones	0.35
		Depth to hard bedrock	0.29	Large stones	0.35	Depth to hard bedrock	0.29

Table 8.--Dwellings and Small Commercial Buildings--Continued

Map unit symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
319863							
Arnot	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
Rock outcrop	20	Not rated		Not rated		Not rated	
319865							
Wellsboro	89	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	0.50				
741008							
Oquaga	78	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.29	Depth to hard bedrock	1.00	Depth to hard bedrock	0.29
		Large stones	0.07	Large stones	0.07	Large stones	0.07

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping

[Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table]

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290457							
Barbour	85	Somewhat limited		Very limited		Not limited	
		Frost action	0.50	Unstable excavation walls	1.00		
		Flooding	0.40	Depth to saturated zone	0.35		
290461							
Bath	80	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Depth to saturated zone	1.00	Slope	0.63
		Depth to saturated zone	0.60	Slope	0.63	Depth to saturated zone	0.60
		Frost action	0.50	Dense layer	0.50	Droughty	0.06
				Unstable excavation walls	0.10		
290465							
Cadosia	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Unstable excavation walls	1.00	Gravel	1.00
						Large stones	0.68
290466							
Cadosia	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Unstable excavation walls	1.00	Gravel	1.00
						Large stones	0.68
290468							
Chenango	85	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Unstable excavation walls	1.00	Droughty	0.23
290483							
Fluvaquents	45	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Frost action	1.00	Unstable excavation walls	1.00	Depth to saturated zone	1.00
		Flooding	1.00	Flooding	0.80		
Udifluvents	35	Very limited		Very limited		Very limited	
		Flooding	1.00	Unstable excavation walls	1.00	Flooding	1.00
		Frost action	0.50	Flooding	0.80	Gravel	0.22
				Depth to saturated zone	0.61	Droughty	0.01
290484							
Halcott	25	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Droughty	1.00
		Slope	0.04	Slope	0.04	Gravel	0.22
						Slope	0.04

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290484							
Mongaup	25	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.64	Depth to hard bedrock	1.00	Depth to bedrock	0.65
		Frost action	0.50	Unstable excavation walls	0.10	Droughty	0.06
		Slope	0.04	Slope	0.04	Slope	0.04
						Gravel	0.04
Vly	25	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to hard bedrock	1.00	Droughty	0.67
		Depth to hard bedrock	0.35	Unstable excavation walls	0.10	Depth to bedrock	0.35
		Slope	0.04	Slope	0.04	Gravel	0.06
						Slope	0.04
290485							
Halcott	25	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Droughty	1.00
						Gravel	0.22
Mongaup	25	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.64	Slope	1.00	Depth to bedrock	0.65
		Frost action	0.50	Unstable excavation walls	0.10	Droughty	0.06
						Gravel	0.04
Vly	25	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Frost action	0.50	Slope	1.00	Droughty	0.67
		Depth to hard bedrock	0.35	Unstable excavation walls	0.10	Depth to bedrock	0.35
						Gravel	0.06
290487							
Lackawanna	80	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to saturated zone	1.00	Depth to saturated zone	0.35
		Depth to saturated zone	0.35	Unstable excavation walls	0.10	Large stones	0.32
						Droughty	0.06
290488							
Lackawanna	80	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Depth to saturated zone	1.00	Slope	0.63
		Frost action	0.50	Slope	0.63	Depth to saturated zone	0.35
		Depth to saturated zone	0.35	Unstable excavation walls	0.10	Large stones	0.32
						Droughty	0.06
290489							
Lackawanna	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Depth to saturated zone	1.00	Depth to saturated zone	0.35
		Depth to saturated zone	0.35	Unstable excavation walls	0.10	Large stones	0.32
						Droughty	0.06

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290490							
Lackawanna	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Depth to saturated zone	1.00	Depth to saturated zone	0.35
		Depth to saturated zone	0.35	Unstable excavation walls	0.10	Large stones	0.32
						Droughty	0.06
290491							
Lackawanna	50	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to saturated zone	1.00	Depth to saturated zone	0.35
		Depth to saturated zone	0.35	Unstable excavation walls	0.10	Large stones	0.32
		Slope	0.04	Slope	0.04	Droughty	0.06
						Slope	0.04
Bath	30	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.60	Depth to saturated zone	1.00	Depth to saturated zone	0.60
		Frost action	0.50	Dense layer	0.50	Droughty	0.06
		Slope	0.04	Unstable excavation walls	0.10	Slope	0.04
				Slope	0.04		
290492							
Lackawanna	50	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Depth to saturated zone	1.00	Depth to saturated zone	0.35
		Depth to saturated zone	0.35	Unstable excavation walls	0.10	Large stones	0.32
						Droughty	0.06
Bath	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.60	Depth to saturated zone	1.00	Depth to saturated zone	0.60
		Frost action	0.50	Dense layer	0.50	Droughty	0.06
				Unstable excavation walls	0.10		
290493							
Lackawanna	50	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Depth to saturated zone	1.00	Depth to saturated zone	0.35
		Depth to saturated zone	0.35	Unstable excavation walls	0.10	Large stones	0.32
						Droughty	0.06
Bath	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.60	Depth to saturated zone	1.00	Depth to saturated zone	0.60
		Frost action	0.50	Dense layer	0.50	Droughty	0.06
				Unstable excavation walls	0.10		
290506							
Lordstown	80	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to hard bedrock	1.00	Depth to bedrock	0.29
		Depth to hard bedrock	0.29	Unstable excavation walls	1.00		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290507							
Lordstown	80	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Depth to hard bedrock	1.00	Slope	0.63
		Frost action	0.50	Unstable excavation walls	1.00	Depth to bedrock	0.29
		Depth to hard bedrock	0.29	Slope	0.63		
290509							
Lordstown	80	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Frost action	0.50	Slope	1.00	Depth to bedrock	0.29
		Depth to hard bedrock	0.29	Unstable excavation walls	1.00		
290510							
Maplecrest	80	Somewhat limited		Very limited		Not limited	
		Frost action	0.50	Unstable excavation walls	1.00		
290511							
Maplecrest	80	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Unstable excavation walls	1.00	Slope	0.63
		Frost action	0.50	Slope	0.63		
290512							
Maplecrest	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Unstable excavation walls	1.00		
290514							
Mardin	80	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.90	Depth to saturated zone	1.00	Depth to saturated zone	0.90
		Frost action	0.50	Dense layer	0.50	Droughty	0.15
				Unstable excavation walls	0.10	Large stones	0.01
290515							
Mardin	80	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.90	Depth to saturated zone	1.00	Depth to saturated zone	0.90
		Slope	0.63	Slope	0.63	Slope	0.63
		Frost action	0.50	Dense layer	0.50	Droughty	0.15
				Unstable excavation walls	0.10	Large stones	0.01
290519							
Mongaup	80	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.64	Depth to hard bedrock	1.00	Depth to bedrock	0.65
		Frost action	0.50	Unstable excavation walls	0.10	Droughty	0.06
						Gravel	0.04

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290522							
Morris	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	0.10	Droughty	1.00
						Large stones	0.68
290523							
Morris	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	0.10	Droughty	1.00
						Large stones	0.68
290525							
Morris	50	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	0.10	Droughty	1.00
						Large stones	0.68
Volusia	30	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Dense layer	0.50	Droughty	0.53
				Unstable excavation walls	0.10	Large stones	0.01
290526							
Norchip	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	1.00	Droughty	1.00
				Dense layer	0.50		
290535							
Oquaga	80	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.90	Depth to hard bedrock	1.00	Droughty	0.97
		Frost action	0.50	Unstable excavation walls	0.10	Depth to bedrock	0.90
						Gravel	0.54
290536							
Oquaga	80	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.90	Depth to hard bedrock	1.00	Droughty	0.97
		Slope	0.63	Slope	0.63	Depth to bedrock	0.90
		Frost action	0.50	Unstable excavation walls	0.10	Slope	0.63
						Gravel	0.54
290539							
Oquaga	80	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.90	Slope	1.00	Droughty	0.97
		Frost action	0.50	Unstable excavation walls	0.10	Depth to bedrock	0.90
						Gravel	0.54

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290540							
Oquaga	25	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.90	Depth to hard bedrock	1.00	Droughty	0.97
		Frost action	0.50	Unstable excavation walls	0.10	Depth to bedrock	0.90
		Slope	0.04	Slope	0.04	Gravel	0.54
						Slope	0.04
Lordstown	25	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to hard bedrock	1.00	Depth to bedrock	0.29
		Depth to hard bedrock	0.29	Unstable excavation walls	1.00	Slope	0.04
		Slope	0.04	Slope	0.04		
Arnot	25	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Droughty	1.00
		Slope	0.04	Slope	0.04	Gravel	0.06
			0.04			Slope	0.04
290541							
Oquaga	25	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.90	Slope	1.00	Droughty	0.97
		Frost action	0.50	Unstable excavation walls	0.10	Depth to bedrock	0.90
						Gravel	0.54
Lordstown	25	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Frost action	0.50	Slope	1.00	Depth to bedrock	0.29
		Depth to hard bedrock	0.29	Unstable excavation walls	1.00		
Arnot	25	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Droughty	1.00
						Gravel	0.06
290542							
Oquaga	25	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.90	Slope	1.00	Droughty	0.97
		Frost action	0.50	Unstable excavation walls	0.10	Depth to bedrock	0.90
						Gravel	0.54
Lordstown	25	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Frost action	0.50	Slope	1.00	Depth to bedrock	0.29
		Depth to hard bedrock	0.29	Unstable excavation walls	1.00		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290542							
Arnot	25	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Droughty	1.00
						Gravel	0.06
290544							
Pits, gravel	85	Not limited		Very limited		Not rated	
				Unstable excavation walls	1.00		
290546							
Raypol	80	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	1.00		
		Flooding	0.40				
290547							
Red Hook	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	1.00	Gravel	0.92
290548							
Riverhead	85	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Unstable excavation walls	1.00	Droughty	0.03
290549							
Riverhead	85	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Unstable excavation walls	1.00	Droughty	0.03
290555							
Torull	40	Very limited		Very limited		Not rated	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00		
		Depth to saturated zone	1.00	Depth to saturated zone	1.00		
		Frost action	1.00	Unstable excavation walls	0.50		
Gretor	40	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to hard bedrock	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Depth to saturated zone	1.00	Depth to bedrock	0.80
		Depth to hard bedrock	0.79	Unstable excavation walls	0.10	Droughty	0.11
290556							
Tunkhannock	85	Not limited		Very limited		Somewhat limited	
				Unstable excavation walls	1.00	Gravel	0.90
						Droughty	0.20

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290562							
Tunkhannock	50	Somewhat limited		Very limited		Somewhat limited	
		Flooding	0.40	Unstable excavation walls	1.00	Gravel	0.90
				Depth to saturated zone	0.35	Droughty	0.20
Chenango	30	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Unstable excavation walls	1.00	Droughty	0.23
		Flooding	0.40	Depth to saturated zone	0.35		
290563							
Udorthents	80	Not rated		Not rated		Not rated	
290565							
Unadilla	80	Very limited		Very limited		Not limited	
		Frost action	1.00	Unstable excavation walls	1.00		
290567							
Valois	80	Somewhat limited		Very limited		Not limited	
		Frost action	0.50	Unstable excavation walls	1.00		
290568							
Valois	80	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Unstable excavation walls	1.00	Slope	0.63
		Frost action	0.50	Slope	0.63		
290569							
Valois	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Unstable excavation walls	1.00		
290570							
Valois	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Unstable excavation walls	1.00		
290576							
Volusia	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Dense layer	0.50	Droughty	0.53
				Unstable excavation walls	0.10		
290578							
Wellsboro	80	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Depth to saturated zone	0.94	Dense layer	0.50	Droughty	0.45
				Unstable excavation walls	0.10		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290579							
Wellsboro	80	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Depth to saturated zone	0.94	Slope	0.63	Slope	0.63
		Slope	0.63	Dense layer	0.50	Droughty	0.45
				Unstable excavation walls	0.10		
290581							
Wellsboro	50	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Depth to saturated zone	0.94	Dense layer	0.50	Droughty	0.45
		Slope	0.04	Unstable excavation walls	0.10	Slope	0.04
				Slope	0.04		
Mardin	30	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.90	Depth to saturated zone	1.00	Depth to saturated zone	0.90
		Frost action	0.50	Dense layer	0.50	Droughty	0.15
		Slope	0.04	Unstable excavation walls	0.10	Slope	0.04
				Slope	0.04	Large stones	0.01
290582							
Wenonah	85	Somewhat limited		Somewhat limited		Not limited	
		Frost action	0.50	Depth to saturated zone	0.35		
		Flooding	0.40	Unstable excavation walls	0.10		
290592							
Carlisle	45	Very limited		Very limited		Not rated	
		Ponding	1.00	Ponding	1.00		
		Depth to saturated zone	1.00	Depth to saturated zone	1.00		
		Subsidence	1.00	Organic matter content	1.00		
		Frost action	1.00				
Palms	40	Very limited		Very limited		Not rated	
		Ponding	1.00	Ponding	1.00		
		Depth to saturated zone	1.00	Depth to saturated zone	1.00		
		Subsidence	1.00	Unstable excavation walls	1.00		
		Frost action	1.00				
293892							
Alden, extremely stony	75	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	1.00		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293895							
Arnot	50	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	0.63	Slope	0.63	Droughty	1.00
		Frost action	0.50	Unstable excavation walls	0.50	Slope	0.63
						Gravel	0.25
Lordstown	35	Somewhat limited		Very limited		Not rated	
		Slope	0.63	Depth to hard bedrock	1.00		
		Frost action	0.50	Slope	0.63		
		Depth to hard bedrock	0.03	Unstable excavation walls	0.10		
293896							
Arnot	60	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Unstable excavation walls	0.50	Droughty	1.00
						Gravel	0.25
Lordstown	30	Very limited		Very limited		Not rated	
		Slope	1.00	Depth to hard bedrock	1.00		
		Frost action	0.50	Slope	1.00		
		Depth to hard bedrock	0.10	Unstable excavation walls	0.10		
293897							
Arnot	65	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Unstable excavation walls	0.50	Droughty	1.00
						Gravel	0.25
Lordstown	25	Very limited		Very limited		Not rated	
		Slope	1.00	Depth to hard bedrock	1.00		
		Frost action	0.50	Slope	1.00		
		Depth to hard bedrock	0.15	Unstable excavation walls	0.10		
293921							
Erie, extremely stony	80	Very limited		Very limited		Very limited	
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	1.00	Depth to thin cemented pan	1.00	Depth to saturated zone	1.00
		Depth to thin cemented pan	1.00	Depth to saturated zone	1.00	Droughty	0.64
		Frost action	1.00	Dense layer	0.50	Large stones	0.01
				Unstable excavation walls	0.10		
293929							
Hoosic	80	Not limited		Very limited		Somewhat limited	
				Unstable excavation walls	1.00	Droughty	0.78
						Gravel	0.54

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293930							
Hoosic	80	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Unstable excavation walls	1.00	Droughty	0.86
				Slope	0.63	Slope	0.63
						Gravel	0.54
293931							
Hoosic	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Unstable excavation walls	1.00	Droughty	0.92
						Gravel	0.54
293932							
Lordstown	80	Somewhat limited		Very limited		Not rated	
		Frost action	0.50	Depth to hard bedrock	1.00		
		Depth to hard bedrock	0.01	Unstable excavation walls	0.10		
293939							
Middlebury	80	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Flooding	1.00	Unstable excavation walls	1.00	Flooding	0.60
		Depth to saturated zone	0.94	Flooding	0.60		
293943							
Otisville	80	Not limited		Very limited		Very limited	
				Unstable excavation walls	1.00	Droughty	1.00
						Gravel	0.25
293944							
Otisville	80	Somewhat limited		Very limited		Very limited	
		Slope	0.63	Unstable excavation walls	1.00	Droughty	1.00
				Slope	0.63	Slope	0.63
						Gravel	0.25
293945							
Otisville	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Unstable excavation walls	1.00	Droughty	1.00
						Gravel	0.25
293946							
Otisville	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Unstable excavation walls	1.00	Droughty	1.00
						Gravel	0.25
Hoosic	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Unstable excavation walls	1.00	Droughty	0.94
						Gravel	0.54
293949							
Pits, gravel	75	Not rated		Not rated		Not rated	
293961							
Rock outcrop	50	Not rated		Not rated		Not rated	

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293961							
Arnot	35	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
						Droughty	1.00
		Slope	0.63	Slope	0.63	Slope	0.63
		Frost action	0.50	Unstable excavation walls	0.50	Gravel	0.25
293962							
Rock outcrop	50	Not rated		Not rated		Not rated	
Arnot	40	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
						Slope	1.00
		Slope	1.00	Slope	1.00	Droughty	1.00
		Frost action	0.50	Unstable excavation walls	0.50	Gravel	0.25
293963							
Rock outcrop	60	Not rated		Not rated		Not rated	
Arnot	30	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
						Slope	1.00
		Slope	1.00	Slope	1.00	Droughty	1.00
		Frost action	0.50	Unstable excavation walls	0.50	Gravel	0.25
293975							
Suncook	80	Very limited		Very limited		Somewhat limited	
		Flooding	1.00	Unstable excavation walls	1.00	Flooding	0.60
						Droughty	0.46
				Flooding	0.60		
				Depth to saturated zone	0.35		
293979							
Swartswood, very stony	40	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Depth to thick cemented pan	1.00	Slope	0.63
		Frost action	0.50			Droughty	0.37
		Depth to thick cemented pan	0.35	Depth to saturated zone	1.00	Depth to cemented pan	0.35
		Depth to saturated zone	0.03	Unstable excavation walls	1.00	Gravel	0.04
			0.03	Slope	0.63	Depth to saturated zone	0.03
				Depth to thin cemented pan	0.35		
Mardin	40	Very limited		Very limited		Very limited	
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to cemented pan	1.00
		Depth to thin cemented pan	1.00	Depth to thin cemented pan	1.00	Droughty	0.81
		Slope	0.63	Depth to saturated zone	1.00	Slope	0.63
		Frost action	0.50	Slope	0.63	Depth to saturated zone	0.43
		Depth to saturated zone	0.43	Dense layer	0.50		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293980							
Swartswood, very stony	40	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to thick cemented pan	1.00	Slope	1.00
		Depth to thick cemented pan	0.65	Slope	1.00	Droughty	0.66
		Frost action	0.50	Depth to saturated zone	1.00	Depth to cemented pan	0.64
		Depth to saturated zone	0.03	Unstable excavation walls	1.00	Gravel	0.04
				Depth to thin cemented pan	0.65	Depth to saturated zone	0.03
Mardin	40	Very limited		Very limited		Very limited	
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to cemented pan	1.00
		Slope	1.00	Depth to thin cemented pan	1.00	Slope	1.00
		Depth to thin cemented pan	1.00	Slope	1.00	Droughty	0.92
		Frost action	0.50	Depth to saturated zone	1.00	Depth to saturated zone	0.43
		Depth to saturated zone	0.43	Dense layer	0.50		
293981							
Swartswood, very stony	40	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to thick cemented pan	1.00	Slope	1.00
		Depth to thick cemented pan	0.80	Slope	1.00	Droughty	0.80
		Frost action	0.50	Depth to saturated zone	1.00	Depth to cemented pan	0.79
		Depth to saturated zone	0.03	Unstable excavation walls	1.00	Gravel	0.04
				Depth to thin cemented pan	0.79	Depth to saturated zone	0.03
Mardin	35	Very limited		Very limited		Very limited	
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to cemented pan	1.00
		Slope	1.00	Depth to thin cemented pan	1.00	Slope	1.00
		Depth to thin cemented pan	1.00	Slope	1.00	Droughty	0.95
		Frost action	0.50	Depth to saturated zone	1.00	Depth to saturated zone	0.43
		Depth to saturated zone	0.43	Dense layer	0.50		
293983							
Udifluvents, frequently flooded	45	Very limited		Very limited		Very limited	
		Flooding	1.00	Unstable excavation walls	1.00	Flooding	1.00
		Frost action	0.50	Flooding	0.80		
				Depth to saturated zone	0.61		
Fluvaquents	30	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Frost action	1.00	Unstable excavation walls	1.00	Depth to saturated zone	1.00
		Flooding	1.00	Flooding	0.80		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295043							
Alden	80	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	1.00		
		Low strength	0.22				
295044							
Arnot	40	Very limited		Very limited		Not rated	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00		
		Frost action	0.50	Unstable excavation walls	0.50		
Lordstown	40	Somewhat limited		Very limited		Not rated	
		Depth to hard bedrock	0.64	Depth to hard bedrock	1.00		
		Frost action	0.50	Unstable excavation walls	0.10		
295045							
Arnot	40	Very limited		Very limited		Not rated	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00		
		Slope	1.00	Slope	1.00		
		Frost action	0.50	Unstable excavation walls	0.50		
Lordstown	40	Very limited		Very limited		Not rated	
		Slope	1.00	Depth to hard bedrock	1.00		
		Depth to hard bedrock	0.64	Slope	1.00		
		Frost action	0.50	Unstable excavation walls	0.10		
295046							
Arnot	45	Very limited		Very limited		Not rated	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00		
		Frost action	0.50	Unstable excavation walls	0.50		
Oquaga	40	Somewhat limited		Very limited		Not rated	
		Frost action	0.50	Depth to hard bedrock	1.00		
		Depth to hard bedrock	0.06	Unstable excavation walls	0.10		
295047							
Arnot	50	Very limited		Very limited		Not rated	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00		
		Slope	1.00	Slope	1.00		
		Frost action	0.50	Unstable excavation walls	0.50		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295047							
Oquaga	35	Very limited		Very limited		Not rated	
		Slope	1.00	Depth to hard bedrock	1.00		
		Frost action	0.50	Slope	1.00		
		Depth to hard bedrock	0.06	Unstable excavation walls	0.10		
295048							
Arnot	60	Very limited		Very limited		Not rated	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00		
		Frost action	0.50	Unstable excavation walls	0.50		
Rock outcrop	25	Not rated		Not rated		Not rated	
295049							
Arnot	55	Very limited		Very limited		Not rated	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00		
		Slope	1.00	Slope	1.00		
		Frost action	0.50	Unstable excavation walls	0.50		
Rock outcrop	30	Not rated		Not rated		Not rated	
295050							
Arnot	45	Very limited		Very limited		Not rated	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00		
		Slope	1.00	Slope	1.00		
		Frost action	0.50	Unstable excavation walls	0.50		
Rock outcrop	40	Not rated		Not rated		Not rated	
295051							
Barbour	85	Somewhat limited		Very limited		Not limited	
		Frost action	0.50	Unstable excavation walls	1.00		
		Flooding	0.40	Depth to saturated zone	0.35		
295052							
Bash	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Flooding	0.60	Flooding	0.60
		Flooding	1.00	Unstable excavation walls	0.10		
295053							
Carlisle	85	Very limited		Very limited		Not rated	
		Ponding	1.00	Ponding	1.00		
		Depth to saturated zone	1.00	Depth to saturated zone	1.00		
		Subsidence	1.00	Organic matter content	1.00		
		Frost action	1.00				

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295054							
Carlisle, ponded	25	Very limited		Very limited		Not rated	
		Ponding	1.00	Ponding	1.00		
		Depth to saturated zone	1.00	Depth to saturated zone	1.00		
		Subsidence	1.00	Organic matter content	1.00		
		Frost action	1.00				
Palms, ponded	25	Very limited		Very limited		Not rated	
		Ponding	1.00	Ponding	1.00		
		Depth to saturated zone	1.00	Depth to saturated zone	1.00		
		Subsidence	1.00	Unstable excavation walls	0.10		
		Frost action	1.00				
Alden, ponded	25	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	1.00		
		Low strength	0.22				
295055							
Chenango	85	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Unstable excavation walls	1.00	Gravel	0.27
						Droughty	0.04
295056							
Chenango	85	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Unstable excavation walls	1.00	Gravel	0.27
						Droughty	0.04
295057							
Chenango	85	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Unstable excavation walls	1.00	Slope	0.63
		Frost action	0.50	Slope	0.63	Gravel	0.27
						Droughty	0.04
295059							
Cheshire, stony	85	Not limited		Somewhat limited		Somewhat limited	
				Unstable excavation walls	0.10	Gravel	0.05
295060							
Cheshire, stony	85	Somewhat limited		Somewhat limited		Somewhat limited	
		Slope	0.63	Slope	0.63	Slope	0.63
				Unstable excavation walls	0.10	Gravel	0.05
295061							
Cheshire, stony	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Unstable excavation walls	0.10	Gravel	0.05
295062							
Cheshire, stony	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Unstable excavation walls	0.10	Gravel	0.05

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295063							
Cheshire, stony-----	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Unstable excavation walls	0.10	Gravel	0.05
295069							
Fluvaquents----------	45	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Frost action	1.00	Unstable excavation walls	1.00	Depth to saturated zone	1.00
		Flooding	1.00	Flooding	0.80		
Udifluvents, frequently flooded-	40	Very limited		Very limited		Very limited	
		Flooding	1.00	Unstable excavation walls	1.00	Flooding	1.00
		Frost action	0.50	Flooding	0.80	Gravel	0.22
				Depth to saturated zone	0.61		
295074							
Lackawanna----------	80	Somewhat limited		Very limited		Not rated	
		Frost action	0.50	Depth to thick cemented pan	1.00		
		Depth to thick cemented pan	0.16	Depth to saturated zone	1.00		
		Depth to saturated zone	0.12	Dense layer	0.50		
				Depth to thin cemented pan	0.16		
				Unstable excavation walls	0.10		
295075							
Lackawanna----------	85	Somewhat limited		Very limited		Not rated	
		Slope	0.63	Depth to thick cemented pan	1.00		
		Frost action	0.50	Depth to saturated zone	1.00		
		Depth to thick cemented pan	0.16	Slope	0.63		
		Depth to saturated zone	0.12	Dense layer	0.50		
				Depth to thin cemented pan	0.16		
295076							
Lackawanna----------	85	Very limited		Very limited		Not rated	
		Slope	1.00	Depth to thick cemented pan	1.00		
		Frost action	0.50	Slope	1.00		
		Depth to thick cemented pan	0.16	Depth to saturated zone	1.00		
		Depth to saturated zone	0.12	Dense layer	0.50		
				Depth to thin cemented pan	0.16		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295082							
Lordstown, stony----	85	Somewhat limited		Very limited		Not rated	
		Depth to hard bedrock	0.64	Depth to hard bedrock	1.00		
		Frost action	0.50	Unstable excavation walls	0.10		
295083							
Lordstown, very stony----------	55	Somewhat limited		Very limited		Not rated	
		Depth to hard bedrock	0.64	Depth to hard bedrock	1.00		
		Slope	0.63	Slope	0.63		
		Frost action	0.50	Unstable excavation walls	0.10		
Arnot, very stony---	25	Very limited		Very limited		Not rated	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00		
		Slope	0.63	Slope	0.63		
		Frost action	0.50	Unstable excavation walls	0.50		
295092							
Morris----------	85	Very limited		Very limited		Very limited	
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	1.00	Depth to thin cemented pan	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Depth to saturated zone	1.00		
				Unstable excavation walls	1.00		
				Dense layer	0.50		
295093							
Morris----------	85	Very limited		Very limited		Very limited	
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	1.00	Depth to thin cemented pan	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Depth to saturated zone	1.00		
				Unstable excavation walls	1.00		
				Dense layer	0.50		
295094							
Morris----------	85	Very limited		Very limited		Very limited	
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	1.00	Depth to thin cemented pan	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Depth to saturated zone	1.00	Slope	0.16
		Slope	0.16	Unstable excavation walls	1.00		
				Dense layer	0.50		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295095							
Neversink	80	Very limited		Very limited		Not rated	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00		
		Frost action	1.00	Unstable excavation walls	1.00		
295101							
Oquaga	85	Somewhat limited		Very limited		Not rated	
		Frost action	0.50	Depth to hard bedrock	1.00		
		Depth to hard bedrock	0.06	Unstable excavation walls	0.10		
295102							
Oquaga	50	Somewhat limited		Very limited		Not rated	
		Slope	0.63	Depth to hard bedrock	1.00		
		Frost action	0.50	Slope	0.63		
		Depth to hard bedrock	0.06	Unstable excavation walls	0.10		
Arnot	35	Very limited		Very limited		Not rated	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00		
		Slope	0.63	Slope	0.63		
		Frost action	0.50	Unstable excavation walls	0.50		
295103							
Oquaga	50	Very limited		Very limited		Not rated	
		Slope	1.00	Depth to hard bedrock	1.00		
		Frost action	0.50	Slope	1.00		
		Depth to hard bedrock	0.06	Unstable excavation walls	0.10		
Arnot	35	Very limited		Very limited		Not rated	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00		
		Slope	1.00	Slope	1.00		
		Frost action	0.50	Unstable excavation walls	0.50		
295105							
Otisville	85	Not limited		Very limited		Very limited	
				Unstable excavation walls	1.00	Droughty	1.00
						Gravel	0.89
						Too sandy	0.50
295106							
Otisville	85	Not limited		Very limited		Very limited	
				Unstable excavation walls	1.00	Droughty	1.00
						Gravel	0.89
						Too sandy	0.50
295107							
Otisville	85	Somewhat limited		Very limited		Very limited	
		Slope	0.63	Unstable excavation walls	1.00	Droughty	1.00
						Gravel	0.89
				Slope	0.63	Slope	0.63
						Too sandy	0.50

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295109							
Palms	85	Very limited		Very limited		Not rated	
		Ponding	1.00	Ponding	1.00		
		Depth to saturated zone	1.00	Depth to saturated zone	1.00		
		Subsidence	1.00	Unstable excavation walls	0.10		
		Frost action	1.00				
295110							
Philo	85	Very limited		Very limited		Somewhat limited	
		Flooding	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.75
		Depth to saturated zone	0.75	Unstable excavation walls	1.00	Flooding	0.60
		Frost action	0.50	Flooding	0.60		
295111							
Pits, gravel	80	Not rated		Not rated		Not rated	
295112							
Pits, quarry	80	Not rated		Not rated		Not rated	
295113							
Pompton	85	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Depth to saturated zone	0.94	Unstable excavation walls	1.00	Gravel	0.07
295114							
Pompton	85	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Depth to saturated zone	0.94	Unstable excavation walls	1.00	Gravel	0.07
295115							
Pope, occasionally flooded	85	Very limited		Somewhat limited		Somewhat limited	
		Flooding	1.00	Flooding	0.60	Flooding	0.60
		Frost action	0.50	Unstable excavation walls	0.10		
295116							
Pope, rarely flooded	85	Somewhat limited		Somewhat limited		Not limited	
		Frost action	0.50	Unstable excavation walls	0.10		
295117							
Raynham, poorly drained	50	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	0.10		
Raynham, somewhat poorly drained	30	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	0.10		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295118							
Red Hook	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	1.00		
295119							
Riverhead	85	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Unstable excavation walls	1.00	Droughty	0.03
295120							
Riverhead	85	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Unstable excavation walls	1.00	Droughty	0.03
295121							
Riverhead	85	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Unstable excavation walls	1.00	Slope	0.63
		Frost action	0.50	Slope	0.63	Droughty	0.03
295122							
Scio	80	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.75
		Depth to saturated zone	0.75	Unstable excavation walls	0.10		
295123							
Scriba, stony	80	Very limited		Very limited		Not rated	
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00		
		Depth to saturated zone	1.00	Depth to thin cemented pan	1.00		
		Frost action	1.00	Depth to saturated zone	1.00		
				Dense layer	0.50		
				Unstable excavation walls	0.10		
295124							
Scriba, stony	75	Very limited		Very limited		Not rated	
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00		
		Depth to saturated zone	1.00	Depth to thin cemented pan	1.00		
		Frost action	1.00	Depth to saturated zone	1.00		
				Dense layer	0.50		
				Unstable excavation walls	0.10		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295125							
Scriba, extremely stony	40	Very limited		Very limited		Not rated	
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00		
		Depth to saturated zone	1.00	Depth to thin cemented pan	1.00		
		Frost action	1.00	Depth to saturated zone	1.00		
				Dense layer	0.50		
				Unstable excavation walls	0.10		
Morris, extremely stony	40	Very limited		Very limited		Very limited	
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	1.00	Depth to thin cemented pan	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Depth to saturated zone	1.00		
				Unstable excavation walls	1.00		
295126							
Suncook	80	Very limited		Very limited		Somewhat limited	
		Flooding	1.00	Unstable excavation walls	1.00	Flooding	0.60
				Flooding	0.60	Droughty	0.22
				Depth to saturated zone	0.35		
295129							
Swartswood	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to thick cemented pan	0.80	Depth to thick cemented pan	1.00	Droughty	0.80
		Frost action	0.50	Depth to saturated zone	1.00	Depth to cemented pan	0.79
		Depth to saturated zone	0.35	Unstable excavation walls	1.00	Depth to saturated zone	0.35
				Depth to thin cemented pan	0.79	Gravel	0.25
				Dense layer	0.50		
295130							
Swartswood	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to thick cemented pan	0.80	Depth to thick cemented pan	1.00	Droughty	0.80
		Slope	0.63	Depth to saturated zone	1.00	Depth to cemented pan	0.79
		Frost action	0.50	Unstable excavation walls	1.00	Slope	0.63
		Depth to saturated zone	0.35	Depth to thin cemented pan	0.79	Depth to saturated zone	0.35
				Slope	0.63	Gravel	0.25

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295131							
Swartswood	85	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to thick cemented pan	1.00	Slope	1.00
		Depth to thick cemented pan	0.80	Slope	1.00	Droughty	0.80
		Frost action	0.50	Depth to saturated zone	1.00	Depth to cemented pan	0.79
		Depth to saturated zone	0.35	Unstable excavation walls	1.00	Depth to saturated zone	0.35
				Depth to thin cemented pan	0.79	Gravel	0.25
295132							
Swartswood, stony	40	Very limited		Very limited		Not rated	
		Slope	1.00	Depth to thick cemented pan	1.00		
		Depth to thick cemented pan	0.80	Slope	1.00		
		Frost action	0.50	Depth to saturated zone	1.00		
		Depth to saturated zone	0.35	Unstable excavation walls	1.00		
				Depth to thin cemented pan	0.79		
Lackawanna, stony	40	Very limited		Very limited		Not rated	
		Slope	1.00	Depth to thick cemented pan	1.00		
		Frost action	0.50	Slope	1.00		
		Depth to thick cemented pan	0.16	Depth to saturated zone	1.00		
		Depth to saturated zone	0.12	Dense layer	0.50		
				Depth to thin cemented pan	0.16		
295133							
Swartswood, very stony	40	Very limited		Very limited		Not rated	
		Slope	1.00	Depth to thick cemented pan	1.00		
		Depth to thick cemented pan	0.80	Slope	1.00		
		Frost action	0.50	Depth to saturated zone	1.00		
		Depth to satuarated zone	0.35	Unstable excavation walls	1.00		
				Depth to thin cemented pan	0.79		
Lackawanna, very stony	40	Very limited		Very limited		Not rated	
		Slope	1.00	Depth to thick cemented pan	1.00		
		Frost action	0.50	Slope	1.00		
		Depth to thick cemented pan	0.16	Depth to saturated zone	1.00		
		Depth to saturated zone	0.12	Dense layer	0.50		
				Depth to thin cemented pan	0.16		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295134							
Swartswood, very stony	40	Very limited		Very limited		Not rated	
		Slope	1.00	Depth to thick cemented pan	1.00		
		Depth to thick cemented pan	0.80	Slope	1.00		
		Frost action	0.50	Depth to saturated zone	1.00		
		Depth to saturated zone	0.35	Unstable excavation walls	1.00		
				Depth to thin cemented pan	0.79		
Lackawanna, very stony	40	Very limited		Very limited		Not rated	
		Slope	1.00	Depth to thick cemented pan	1.00		
		Frost action	0.50	Slope	1.00		
		Depth to thick cemented pan	0.16	Depth to saturated zone	1.00		
		Depth to saturated zone	0.12	Dense layer	0.50		
				Depth to thin cemented pan	0.16		
295136							
Tuller, somewhat poorly drained	40	Very limited		Very limited		Not rated	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00		
		Depth to saturated zone	1.00	Depth to saturated zone	1.00		
		Frost action	1.00	Unstable excavation walls	0.50		
Tuller, poorly drained	20	Very limited		Very limited		Not rated	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00		
		Depth to saturated zone	1.00	Depth to saturated zone	1.00		
		Frost action	1.00	Unstable excavation walls	0.50		
Rock outcrop	20	Not rated		Not rated		Not rated	
295137							
Tunkhannock	85	Not limited		Very limited		Somewhat limited	
				Unstable excavation walls	1.00	Gravel	0.25
295138							
Tunkhannock	85	Not limited		Very limited		Somewhat limited	
				Unstable excavation walls	1.00	Gravel	0.25
295139							
Tunkhannock	85	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Unstable excavation walls	1.00	Slope	0.63
				Slope	0.63	Gravel	0.25

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295140							
Tunkhannock	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Unstable excavation walls	1.00	Gravel	0.25
295141							
Tunkhannock	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Unstable excavation walls	1.00	Gravel	0.25
Otisville	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Unstable excavation walls	1.00	Droughty	1.00
						Gravel	0.89
						Too sandy	0.50
295142							
Tunkhannock	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Unstable excavation walls	1.00	Gravel	0.25
Otisville	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Unstable excavation walls	1.00	Droughty	1.00
						Gravel	0.89
						Too sandy	0.50
295143							
Udorthents	75	Not rated		Not rated		Not rated	
295144							
Unadilla	85	Very limited		Somewhat limited		Not limited	
		Frost action	1.00	Unstable excavation walls	0.10		
295145							
Unadilla	85	Very limited		Somewhat limited		Not limited	
		Frost action	1.00	Unstable excavation walls	0.10		
295146							
Valois	80	Somewhat limited		Very limited		Not rated	
		Frost action	0.50	Unstable excavation walls	1.00		
295147							
Valois	80	Somewhat limited		Very limited		Not rated	
		Slope	0.63	Unstable excavation walls	1.00		
		Frost action	0.50	Slope	0.63		
295148							
Valois	80	Very limited		Very limited		Not rated	
		Slope	1.00	Slope	1.00		
		Frost action	0.50	Unstable excavation walls	1.00		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295149							
Valois	80	Very limited		Very limited		Not rated	
		Slope	1.00	Slope	1.00		
		Frost action	0.50	Unstable excavation walls	1.00		
295150							
Valois	80	Very limited		Very limited		Not rated	
		Slope	1.00	Slope	1.00		
		Frost action	0.50	Unstable excavation walls	1.00		
295153							
Wayland	85	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Frost action	1.00	Flooding	0.80	Depth to saturated zone	1.00
		Flooding	1.00	Unstable excavation walls	0.10		
295154							
Wellsboro	85	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to thick cemented pan	1.00	Depth to cemented pan	0.95
		Depth to thick cemented pan	0.95	Depth to saturated zone	1.00	Droughty	0.70
		Depth to saturated zone	0.68	Unstable excavation walls	1.00	Depth to saturated zone	0.68
				Depth to thin cemented pan	0.95	Gravel	0.22
				Dense layer	0.50		
295155							
Wellsboro	85	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to thick cemented pan	1.00	Depth to cemented pan	0.95
		Depth to thick cemented pan	0.95	Depth to saturated zone	1.00	Droughty	0.70
		Depth to saturated zone	0.68	Unstable excavation walls	1.00	Depth to saturated zone	0.68
				Depth to thin cemented pan	0.95	Gravel	0.22
				Dense layer	0.50		
295156							
Wellsboro	85	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to thick cemented pan	1.00	Depth to cemented pan	0.95
		Depth to thick cemented pan	0.95	Depth to saturated zone	1.00	Droughty	0.70
		Depth to saturated zone	0.68	Unstable excavation walls	1.00	Depth to saturated zone	0.68
		Slope	0.63	Depth to thin cemented pan	0.95	Slope	0.63
				Slope	0.63	Gravel	0.22

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295157							
Wellsboro, extremely stony	40	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to thick cemented pan	1.00	Depth to cemented pan	0.95
		Depth to thick cemented pan	0.95	Depth to saturated zone	1.00	Droughty	0.70
		Depth to saturated zone	0.68	Unstable excavation walls	1.00	Depth to saturated zone	0.68
						Gravel	0.13
				Depth to thin cemented pan	0.95	Large stones	0.08
				Dense layer	0.50		
Wurtsboro, extremely stony	40	Somewhat limited		Very limited		Not rated	
		Depth to saturated zone	0.88	Depth to thick cemented pan	1.00		
		Depth to thick cemented pan	0.65	Depth to saturated zone	1.00		
		Frost action	0.50	Unstable excavation walls	1.00		
				Depth to thin cemented pan	0.65		
				Dense layer	0.50		
295162							
Wurtsboro, stony	85	Somewhat limited		Very limited		Not rated	
		Depth to saturated zone	0.88	Depth to thick cemented pan	1.00		
		Depth to thick cemented pan	0.65	Depth to saturated zone	1.00		
		Frost action	0.50	Unstable excavation walls	1.00		
				Depth to thin cemented pan	0.65		
				Dense layer	0.50		
295163							
Wurtsboro, stony	85	Somewhat limited		Very limited		Not rated	
		Depth to saturated zone	0.88	Depth to thick cemented pan	1.00		
		Depth to thick cemented pan	0.65	Depth to saturated zone	1.00		
		Frost action	0.50	Unstable excavation walls	1.00		
				Depth to thin cemented pan	0.65		
				Dense layer	0.50		
295164							
Wurtsboro, stony	85	Somewhat limited		Very limited		Not rated	
		Depth to saturated zone	0.88	Depth to thick cemented pan	1.00		
		Depth to thick cemented pan	0.65	Depth to saturated zone	1.00		
		Slope	0.63	Unstable excavation walls	1.00		
		Frost action	0.50	Depth to thin cemented pan	0.65		
				Slope	0.63		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296588							
Arnot	90	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Droughty	1.00
						Gravel	0.08
						Large stones	0.03
296589							
Arnot	90	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	0.63	Slope	0.63	Droughty	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Slope	0.63
						Gravel	0.08
						Large stones	0.03
296590							
Arnot	95	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Droughty	1.00
						Gravel	0.08
						Large stones	0.03
296591							
Barbour	70	Very limited		Very limited		Somewhat limited	
		Flooding	1.00	Unstable excavation walls	1.00	Flooding	0.60
		Frost action	0.50	Flooding	0.60		
				Depth to saturated zone	0.35		
296592							
Basher	87	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to saturated zone	1.00	Flooding	0.60
		Flooding	1.00	Unstable excavation walls	1.00	Depth to saturated zone	0.43
		Depth to saturated zone	0.43	Flooding	0.60		
296593							
Fluvents	70	Very limited		Somewhat limited		Very limited	
		Flooding	1.00	Depth to saturated zone	0.95	Flooding	1.00
		Frost action	0.50	Flooding	0.80	Large stones	0.08
				Unstable excavation walls	0.10	Droughty	0.02
Fluvaquents	20	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Frost action	1.00	Flooding	0.80	Depth to saturated zone	1.00
		Flooding	1.00	Unstable excavation walls	0.10	Large stones	0.08
						Droughty	0.02
296594							
Holly	95	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Frost action	1.00	Unstable excavation walls	1.00	Depth to saturated zone	1.00
		Flooding	1.00	Flooding	0.80		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296595							
Linden	85	Somewhat limited		Very limited		Not limited	
		Frost action	0.50	Unstable excavation walls	1.00		
				Depth to saturated zone	0.35		
296596							
Lordstown	94	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to hard bedrock	1.00	Depth to bedrock	0.46
		Depth to hard bedrock	0.46	Unstable excavation walls	0.10	Large stones	0.20
						Gravel	0.18
						Droughty	0.01
296599							
Lordstown	80	Somewhat limited		Very limited		Very limited	
		Frost action	0.50	Depth to hard bedrock	1.00	Large stones	1.00
		Depth to hard bedrock	0.46	Unstable excavation walls	0.10	Depth to bedrock	0.46
						Droughty	0.01
296600							
Lordstown	90	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Large stones	1.00
		Frost action	0.50	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Unstable excavation walls	0.10	Depth to bedrock	0.46
						Droughty	0.01
296601							
Medihemists	60	Very limited		Very limited		Not rated	
		Ponding	1.00	Ponding	1.00		
		Depth to saturated zone	1.00	Depth to saturated zone	1.00		
		Frost action	1.00	Organic matter content	1.00		
		Subsidence	1.00				
Medifibrists	30	Very limited		Very limited		Not rated	
		Ponding	1.00	Ponding	1.00		
		Depth to saturated zone	1.00	Depth to saturated zone	1.00		
		Frost action	1.00				
		Subsidence	1.00				
296602							
Mardin	90	Somewhat limited		Very limited		Very limited	
		Depth to saturated zone	0.94	Depth to saturated zone	1.00	Large stones	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Depth to saturated zone	0.94
						Droughty	0.39
296603							
Mardin	90	Somewhat limited		Very limited		Very limited	
		Depth to saturated zone	0.94	Depth to saturated zone	1.00	Large stones	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	0.94
		Frost action	0.50	Unstable excavation walls	0.10	Slope	0.63
						Droughty	0.39

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296604							
Mardin	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.94	Depth to saturated zone	1.00	Large stones	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Depth to saturated zone	0.94
						Droughty	0.39
296605							
Mardin	90	Somewhat limited		Very limited		Very limited	
		Depth to saturated zone	0.94	Depth to saturated zone	1.00	Large stones	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Depth to saturated zone	0.94
						Droughty	0.39
296606							
Mardin	85	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Large stones	1.00
		Depth to saturated zone	0.94	Slope	1.00	Slope	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Depth to saturated zone	0.94
						Droughty	0.39
296608							
Morris	75	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Dense layer	0.50	Gravel	0.29
				Unstable excavation walls	0.10	Droughty	0.07
						Large stones	0.03
296609							
Morris	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Slope	0.84	Slope	0.84
		Slope	0.84	Dense layer	0.50	Gravel	0.29
				Unstable excavation walls	0.10	Droughty	0.07
						Large stones	0.03
296610							
Morris	75	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Dense layer	0.50	Large stones	1.00
				Unstable excavation walls	0.10		
296611							
Morris	90	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Slope	0.63	Large stones	1.00
		Slope	0.63	Dense layer	0.50	Slope	0.63
				Unstable excavation walls	0.10		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296613							
Norwich	63	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Dense layer	0.50	Large stones	1.00
				Unstable excavation walls	0.10	Droughty	0.36
Chippewa	33	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Dense layer	0.50	Large stones	1.00
				Unstable excavation walls	0.10	Droughty	0.65
296614							
Oquaga	85	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to hard bedrock	1.00	Droughty	0.70
		Depth to hard bedrock	0.46	Unstable excavation walls	0.10	Gravel	0.62
						Depth to bedrock	0.46
						Large stones	0.20
296615							
Oquaga	85	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Depth to hard bedrock	1.00	Droughty	0.70
		Frost action	0.50	Slope	0.63	Slope	0.63
		Depth to hard bedrock	0.46	Unstable excavation walls	0.10	Gravel	0.62
						Depth to bedrock	0.46
						Large stones	0.20
296616							
Oquaga	85	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Frost action	0.50	Slope	1.00	Droughty	0.70
		Depth to hard bedrock	0.46	Unstable excavation walls	0.10	Gravel	0.62
						Depth to bedrock	0.46
						Large stones	0.20
296617							
Oquaga	85	Somewhat limited		Very limited		Very limited	
		Frost action	0.50	Depth to hard bedrock	1.00	Large stones	1.00
		Depth to hard bedrock	0.46	Unstable excavation walls	0.10	Droughty	0.70
						Depth to bedrock	0.46
						Gravel	0.08
296618							
Oquaga	85	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Large stones	1.00
		Frost action	0.50	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Unstable excavation walls	0.10	Droughty	0.70
						Depth to bedrock	0.46
						Gravel	0.08
296619							
Oquaga	45	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Frost action	0.50	Slope	1.00	Large stones	1.00
		Depth to hard bedrock	0.46	Unstable excavation walls	0.10	Droughty	0.70
						Depth to bedrock	0.46
						Gravel	0.08

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296619							
Lordstown	20	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Frost action	0.50	Slope	1.00	Large stones	1.00
		Depth to hard bedrock	0.46	Large stones	0.10	Depth to bedrock	0.46
		Large stones	0.10	Unstable excavation walls	0.10		
296621							
Quarries	100	Not rated		Not rated		Not rated	
296622							
Rexford, poorly drained	45	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	0.10	Droughty	0.34
Rexford, somewhat poorly drained	40	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	0.10	Droughty	0.34
296623							
Rock outcrop	70	Not rated		Not rated		Not rated	
Arnot	20	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	0.96	Slope	0.96	Droughty	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Slope	0.96
						Gravel	0.08
						Large stones	0.03
296625							
Swartswood	90	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Depth to saturated zone	1.00	Slope	0.63
		Frost action	0.50	Slope	0.63	Gravel	0.24
		Depth to saturated zone	0.03	Unstable excavation walls	0.10	Large stones	0.09
						Droughty	0.04
						Depth to saturated zone	0.03
296628							
Swartswood	90	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Large stones	1.00
		Frost action	0.50	Slope	1.00	Slope	1.00
		Large stones	0.06	Unstable excavation walls	0.10	Droughty	0.04
		Depth to saturated zone	0.03	Large stones	0.06	Depth to saturated zone	0.03
296630							
Volusia	75	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Dense layer	0.50	Droughty	0.85
				Unstable excavation walls	0.10	Large stones	0.03

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296632							
Volusia	75	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Dense layer	0.50	Large stones	1.00
				Unstable excavation walls	0.10	Droughty	0.85
296633							
Volusia	90	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Slope	0.63	Large stones	1.00
		Slope	0.63	Dense layer	0.50	Droughty	0.85
				Unstable excavation walls	0.10	Slope	0.63
296634							
Wellsboro	80	Very limited		Very limited		Very limited	
		Frost action	1.00	Depth to saturated zone	1.00	Large stones	1.00
		Depth to saturated zone	0.94	Unstable excavation walls	0.10	Depth to saturated zone	0.94
296635							
Wellsboro	85	Very limited		Very limited		Very limited	
		Frost action	1.00	Depth to saturated zone	1.00	Large stones	1.00
		Depth to saturated zone	0.94	Slope	0.63	Depth to saturated zone	0.94
		Slope	0.63	Unstable excavation walls	0.10	Slope	0.63
296636							
Wellsboro		Very limited		Very limited		Very limited	
		Frost action	1.00	Depth to saturated zone	1.00	Large stones	1.00
		Depth to saturated zone	0.94	Slope	0.63	Depth to saturated zone	0.94
		Slope	0.63	Unstable excavation walls	0.10	Slope	0.63
296637							
Wellsboro	80	Very limited		Very limited		Very limited	
		Frost action	1.00	Depth to saturated zone	1.00	Large stones	1.00
		Depth to saturated zone	0.94	Unstable excavation walls	0.10	Depth to saturated zone	0.94
296638							
Wellsboro	85	Very limited		Very limited		Very limited	
		Frost action	1.00	Depth to saturated zone	1.00	Large stones	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.94	Unstable excavation walls	0.10	Depth to saturated zone	0.94
296639							
Wellsboro	70	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	1.00	Depth to saturated zone	1.00	Large stones	1.00
		Depth to saturated zone	0.94	Unstable excavation walls	0.10	Depth to saturated zone	0.94

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296639							
Mardin	20	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.94	Depth to saturated zone	1.00	Large stones	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Depth to saturated zone	0.94
						Droughty	0.39
296640							
Wyoming	85	Not limited		Very limited		Somewhat limited	
				Unstable excavation walls	1.00	Droughty	0.81
						Gravel	0.76
						Large stones	0.03
296641							
Wyoming	85	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Unstable excavation walls	1.00	Droughty	0.81
				Slope	0.63	Gravel	0.76
						Slope	0.63
						Large stones	0.03
296642							
Wyoming	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Unstable excavation walls	1.00	Droughty	0.81
						Gravel	0.76
						Large stones	0.03
296643							
Wyoming	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Unstable excavation walls	1.00	Droughty	0.81
						Gravel	0.76
						Large stones	0.03
296644							
Water	100	Not rated		Not rated		Not rated	
297185							
Edgemere	42	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	1.00		
				Dense layer	0.50		
Shohola	42	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Dense layer	0.50	Large stones	1.00
		Slope	0.04	Unstable excavation walls	0.10	Droughty	0.08
				Slope	0.04	Slope	0.04

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297186							
Edgemere	75	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	1.00	Large stones	0.92
				Dense layer	0.50		
297188							
Manlius	40	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Frost action	0.50	Slope	1.00	Gravel	0.90
		Depth to hard bedrock	0.46	Dense layer	0.50	Droughty	0.69
				Unstable excavation walls	0.10	Large stones	0.61
						Depth to bedrock	0.46
Arnot	35	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Large stones	0.10	Large stones	1.00
		Large stones	0.10	Unstable excavation walls	0.10	Droughty	1.00
Rock outcrop	15	Not rated		Not rated		Not rated	
297189							
Manlius	40	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Frost action	0.50	Slope	1.00	Gravel	0.90
		Depth to hard bedrock	0.46	Dense layer	0.50	Droughty	0.69
				Unstable excavation walls	0.10	Large stones	0.61
						Depth to bedrock	0.46
Arnot	35	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Large stones	0.10	Large stones	1.00
		Large stones	0.10	Unstable excavation walls	0.10	Droughty	1.00
Rock outcrop	15	Not rated		Not rated		Not rated	
297190							
Braceville	82	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to saturated zone	1.00	Depth to saturated zone	0.48
		Depth to saturated zone	0.48	Unstable excavation walls	1.00		
297191							
Wyalusing	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Frost action	1.00	Unstable excavation walls	1.00	Depth to saturated zone	1.00
		Flooding	1.00	Flooding	0.80		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297192							
Pope	95	Very limited		Somewhat limited		Very limited	
		Flooding	1.00	Flooding	0.80	Flooding	1.00
		Frost action	0.50	Unstable excavation walls	0.10		
297193							
Paupack	90	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Subsidence	1.00	Unstable excavation walls	0.10		
		Frost action	1.00				
297194							
Morris	82	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	1.00	Large stones	0.32
				Dense layer	0.50		
297196							
Freetown	94	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00				
297199							
Oquaga	78	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to hard bedrock	1.00	Droughty	0.77
		Depth to hard bedrock	0.29	Unstable excavation walls	0.10	Large stones	0.54
		Large stones	0.07		0.07	Depth to bedrock	0.29
			0.07				
297200							
Oquaga	78	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Depth to hard bedrock	1.00	Droughty	0.77
		Frost action	0.50	Slope	0.63	Slope	0.63
		Depth to hard bedrock	0.29	Unstable excavation walls	0.10	Large stones	0.54
		Large stones	0.07	Large stones	0.07	Gravel	0.45
						Depth to bedrock	0.29
297201							
Oquaga	75	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Frost action	0.50	Slope	1.00	Droughty	0.77
		Depth to hard bedrock	0.29	Unstable excavation walls	0.10	Large stones	0.54
		Large stones	0.02	Large stones	0.02	Gravel	0.45
						Depth to bedrock	0.29

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297202							
Oquaga	40	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Frost action	0.50			Large stones	0.99
		Large stones	0.35	Slope	1.00	Droughty	0.77
		Depth to hard bedrock	0.29	Large stones	0.35	Depth to bedrock	0.29
				Unstable excavation walls	0.10	Gravel	0.17
Arnot	30	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Droughty	1.00
						Large stones	1.00
Rock outcrop	20	Not rated		Not rated		Not rated	
297203							
Delaware	93	Somewhat limited		Somewhat limited		Not limited	
		Frost action	0.50	Unstable excavation walls	0.10		
		Flooding	0.40				
297204							
Delaware	82	Somewhat limited		Somewhat limited		Not limited	
		Frost action	0.50	Unstable excavation walls	0.10		
		Flooding	0.40				
297205							
Delaware	80	Somewhat limited		Somewhat limited		Somewhat limited	
		Slope	0.96	Slope	0.96	Slope	0.96
		Frost action	0.50	Unstable excavation walls	0.10		
		Flooding	0.40				
297207							
Wurtsboro	92	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.68	Depth to saturated zone	1.00	Depth to saturated zone	0.68
		Frost action	0.50	Unstable excavation walls	1.00	Gravel	0.04
297208							
Wurtsboro	92	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.68	Depth to saturated zone	1.00	Depth to saturated zone	0.68
		Slope	0.63	Unstable excavation walls	1.00	Slope	0.63
		Frost action	0.50	Slope	0.63	Gravel	0.04
297209							
Philo	85	Very limited		Very limited		Very limited	
		Flooding	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Frost action	0.50	Unstable excavation walls	1.00	Depth to saturated zone	0.03
		Depth to saturated zone	0.03	Flooding	0.80		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297210							
Barbour	85	Very limited		Very limited		Somewhat limited	
		Flooding	1.00	Unstable excavation walls	1.00	Flooding	0.60
		Frost action	0.50	Flooding	0.60		
				Depth to saturated zone	0.35		
297211							
Wellsboro	89	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Depth to saturated zone	0.94	Unstable excavation walls	1.00	Large stones	0.84
						Gravel	0.01
297212							
Wellsboro	89	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Depth to saturated zone	0.94	Unstable excavation walls	1.00	Large stones	0.84
		Slope	0.63	Slope	0.63	Slope	0.63
						Gravel	0.01
297213							
Wellsboro	82	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Depth to saturated zone	0.94	Unstable excavation walls	1.00	Large stones	0.84
						Gravel	0.01
297215							
Wellsboro	91	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Depth to saturated zone	0.94	Unstable excavation walls	1.00	Slope	0.63
		Slope	0.63	Slope	0.63	Gravel	0.62
						Large stones	0.03
297216							
Wurtsboro	92	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.68	Depth to saturated zone	1.00	Depth to saturated zone	0.68
		Frost action	0.50	Unstable excavation walls	1.00	Large stones	0.61
297217							
Wurtsboro	88	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.68	Depth to saturated zone	1.00	Depth to saturated zone	0.68
		Slope	0.63	Unstable excavation walls	1.00	Slope	0.63
		Frost action	0.50	Slope	0.63	Large stones	0.61
297218							
Wurtsboro	88	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.68	Depth to saturated zone	1.00	Depth to saturated zone	0.68
		Frost action	0.50	Unstable excavation walls	1.00	Large stones	0.61

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297221							
Lackawanna	81	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to saturated zone	1.00	Large stones	0.84
		Depth to saturated zone	0.03	Unstable excavation walls	1.00	Depth to saturated zone	0.03
297223							
Lackawanna	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Depth to saturated zone	1.00	Large stones	0.84
		Depth to saturated zone	0.03	Unstable excavation walls	1.00	Depth to saturated zone	0.03
297224							
Swartswood	95	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to saturated zone	1.00	Large stones	0.88
				Unstable excavation walls	1.00	Droughty	0.02
297225							
Swartswood	95	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Depth to saturated zone	1.00	Large stones	0.88
		Frost action	0.50	Unstable excavation walls	1.00	Slope	0.63
				Slope	0.63	Droughty	0.02
297226							
Swartswood	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Depth to saturated zone	1.00	Large stones	0.88
				Unstable excavation walls	1.00	Droughty	0.02
297227							
Arnot	88	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Droughty	1.00
		Slope	0.04	Slope	0.04	Gravel	1.00
						Large stones	0.54
						Slope	0.04
297228							
Arnot	85	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Droughty	1.00
						Gravel	1.00
						Large stones	0.54
						Gravel	1.00
297229							
Wyoming	90	Somewhat limited		Very limited		Very limited	
		Large stones	0.26	Unstable excavation walls	1.00	Large stones	1.00
				Large stones	0.26	Droughty	0.57
						Gravel	0.06

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297230							
Wyoming	90	Somewhat limited		Very limited		Very limited	
		Slope	0.63	Unstable excavation walls	1.00	Large stones	1.00
				Slope	0.63	Slope	0.63
						Droughty	0.57
						Gravel	0.06
297231							
Wyoming	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Large stones	0.53	Unstable excavation walls	1.00	Large stones	1.00
				Large stones	0.53	Droughty	0.57
						Gravel	0.06
297236							
Suncook	91	Very limited		Very limited		Somewhat limited	
		Flooding	1.00	Unstable excavation walls	1.00	Droughty	0.69
				Flooding	0.60	Flooding	0.60
297239							
Mardin	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.94	Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Frost action	0.50	Unstable excavation walls	0.10	Large stones	0.84
						Droughty	0.33
						Gravel	0.01
297240							
Mardin	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.94	Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Slope	0.63	Slope	0.63	Large stones	0.84
		Frost action	0.50	Unstable excavation walls	0.10	Slope	0.63
						Droughty	0.33
						Gravel	0.01
297241							
Unadilla	90	Very limited		Somewhat limited		Not limited	
		Frost action	1.00	Unstable excavation walls	0.10		
297242							
Shohola	62	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	1.00	Large stones	1.00
				Dense layer	0.50	Droughty	0.08
Edgemere	29	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	1.00		
				Dense layer	0.50		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297243							
Shohola	62	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	1.00	Large stones	1.00
		Slope	0.63	Slope	0.63	Slope	0.63
				Dense layer	0.50	Droughty	0.08
Edgemere	29	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	1.00	Slope	0.63
		Slope	0.63	Slope	0.63		
				Dense layer	0.50		
297244							
Lordstown	40	Somewhat limited		Very limited		Very limited	
		Frost action	0.50	Depth to hard bedrock	1.00	Large stones	1.00
		Depth to hard bedrock	0.46	Unstable excavation walls	1.00	Depth to bedrock	0.46
						Droughty	0.01
Swartswood	35	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to saturated zone	1.00	Large stones	0.84
				Unstable excavation walls	1.00	Droughty	0.02
297245							
Lordstown	40	Somewhat limited		Very limited		Very limited	
		Slope	0.63	Depth to hard bedrock	1.00	Large stones	1.00
		Frost action	0.50	Unstable excavation walls	1.00	Slope	0.63
		Depth to hard bedrock	0.46	Slope	0.63	Depth to bedrock	0.46
						Droughty	0.01
Swartswood	35	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Depth to saturated zone	1.00	Large stones	0.84
		Frost action	0.50	Unstable excavation walls	1.00	Slope	0.63
				Slope	0.63	Droughty	0.02
297246							
Lordstown	40	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Frost action	0.50	Slope	1.00	Large stones	1.00
		Depth to hard bedrock	0.46	Unstable excavation walls	1.00	Depth to bedrock	0.46
						Droughty	0.01
Swartswood	35	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Depth to saturated zone	1.00	Large stones	0.84
				Unstable excavation walls	1.00	Droughty	0.02

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297247							
Chenango	86	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Unstable excavation walls	1.00	Gravel	0.12
						Droughty	0.07
297248							
Chenango	85	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Unstable excavation walls	1.00	Slope	0.63
		Frost action	0.50	Slope	0.63	Gravel	0.12
						Droughty	0.07
297249							
Chenango	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Unstable excavation walls	1.00	Gravel	0.12
						Droughty	0.07
297250							
Lordstown	94	Somewhat limited		Very limited		Very limited	
		Frost action	0.50	Depth to hard bedrock	1.00	Large stones	1.00
		Depth to hard bedrock	0.46	Unstable excavation walls	1.00	Depth to bedrock	0.46
						Droughty	0.01
297251							
Lordstown	86	Somewhat limited		Very limited		Very limited	
		Slope	0.63	Depth to hard bedrock	1.00	Large stones	1.00
		Frost action	0.50	Unstable excavation walls	1.00	Slope	0.63
		Depth to hard bedrock	0.46	Slope	0.63	Depth to bedrock	0.46
						Droughty	0.01
297253							
Craigsville	50	Very limited		Very limited		Somewhat limited	
		Flooding	1.00	Unstable excavation walls	1.00	Large stones	0.99
		Large stones	0.99	Large stones	0.99	Flooding	0.60
		Frost action	0.50	Flooding	0.60	Droughty	0.01
Wyoming	40	Not limited		Very limited		Very limited	
				Unstable excavation walls	1.00	Large stones	1.00
						Droughty	0.57
						Gravel	0.06
297254							
Pits, shale	40	Not rated		Not rated		Not rated	
Pits, gravel	40	Not rated		Not rated		Not rated	
309440							
Edgemere	42	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Unstable excavation walls	1.00		
				Dense layer	0.50		

Table 9.--Roads and Streets, Shallow Excavations, and Landscaping--Continued

Map unit symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
309440							
Shohola	42	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Dense layer	0.50	Large stones	1.00
		Slope	0.04	Unstable excavation walls	0.10	Droughty	0.08
				Slope	0.04	Slope	0.04
319863							
Oquaga	40	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Frost action	0.50	Slope	1.00	Large stones	0.99
		Large stones	0.35	Large stones	0.35	Droughty	0.77
		Depth to hard bedrock	0.29	Unstable excavation walls	0.10	Depth to bedrock	0.29
						Gravel	0.17
Arnot	30	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Unstable excavation walls	0.10	Droughty	1.00
						Large stones	1.00
Rock outcrop	20	Not rated		Not rated		Not rated	
319865							
Wellsboro	89	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Depth to saturated zone	0.94	Unstable excavation walls	1.00	Large stones	0.84
						Gravel	0.01
741008							
Oquaga	78	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to hard bedrock	1.00	Droughty	0.77
		Depth to hard bedrock	0.29	Unstable excavation walls	0.10	Large stones	0.54
		Large stones	0.07	Large stones	0.07	Depth to bedrock	0.29

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania

[New York and Pennsylvania have separate requirements for design of septic systems. Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table]

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290457					
Barbour	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
		Flooding	0.40	Flooding	0.40
		Depth to saturated zone	0.17	Depth to saturated zone	0.22
290461					
Bath	80	Somewhat limited		Very limited	
		Depth to saturated zone	0.86	Depth to saturated zone	1.00
		Restricted permeability	0.31	Slow water movement	1.00
		Depth to dense material	0.30	Depth to bedrock	1.00
		Slope	0.20	Slope	0.11
290465					
Cadosia	75	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
		Surface rock fragments	0.30	Depth to saturated zone	1.00
				Slow water movement	0.50
290466					
Cadosia	75	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
		Surface rock fragments	0.30	Depth to saturated zone	1.00
				Slow water movement	0.50
290468					
Chenango	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
				Depth to saturated zone	1.00
290483					
Fluvaquents	45	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Ponding	1.00
		Seepage	1.00	Depth to saturated zone	1.00
		Filtering capacity	1.00	Filtering capacity	1.00
		Ponding	1.00	Depth to bedrock	1.00

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290483					
Udifluvents	35	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
		Depth to saturated zone	0.33	Depth to saturated zone	0.40
290484					
Halcott	25	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Surface rock fragments	0.60	Depth to saturated zone	1.00
		Restricted permeability	0.31	Slope	0.01
		Slope	0.20		
Mongaup	25	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Surface rock fragments	0.60	Depth to bedrock	0.95
		Restricted permeability	0.31	Slow water movement	0.50
		Slope	0.20	Slope	0.01
Vly	25	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Surface rock fragments	0.60	Depth to bedrock	0.90
		Restricted permeability	0.31	Slow water movement	0.50
		Slope	0.20	Slope	0.01
290485					
Halcott	25	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00
		Surface rock fragments	0.60	Depth to saturated zone	1.00
		Restricted permeability	0.31		
Mongaup	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Surface rock fragments	0.60	Depth to bedrock	0.95
		Restricted permeability	0.31	Slow water movement	0.50
Vly	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Surface rock fragments	0.60	Depth to bedrock	0.90
		Restricted permeability	0.31	Slow water movement	0.50

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290487					
Lackawanna	80	Somewhat limited		Very limited	
		Depth to saturated zone	0.80	Slow water movement	1.00
		Depth to dense material	0.76	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	0.99
290488					
Lackawanna	80	Somewhat limited		Very limited	
		Depth to saturated zone	0.80	Slow water movement	1.00
		Depth to dense material	0.76	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	0.99
		Slope	0.20	Slope	0.11
290489					
Lackawanna	80	Very limited		Very limited	
		Slope	1.00	Slow water movement	1.00
		Depth to saturated zone	0.80	Depth to bedrock	1.00
		Depth to dense material	0.76	Depth to saturated zone	0.99
		Restricted permeability	0.31	Slope	0.83
290490					
Lackawanna	80	Very limited		Very limited	
		Slope	1.00	Slow water movement	1.00
		Depth to saturated zone	0.80	Slope	1.00
		Depth to dense material	0.76	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	0.99
290491					
Lackawanna	50	Somewhat limited		Very limited	
		Depth to saturated zone	0.80	Slow water movement	1.00
		Depth to dense material	0.76	Depth to bedrock	1.00
		Surface rock fragments	0.60	Depth to saturated zone	0.99
		Restricted permeability	0.31	Slope	0.11
		Slope	0.20		
Bath	30	Somewhat limited		Very limited	
		Depth to saturated zone	0.86	Depth to saturated zone	1.00
		Surface rock fragments	0.60	Slow water movement	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
		Depth to dense material	0.30	Slope	0.01
		Slope	0.20		

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290492					
Lackawanna	50	Very limited		Very limited	
		Slope	1.00	Slow water movement	1.00
		Depth to saturated zone	0.80	Slope	1.00
		Depth to dense material	0.76	Depth to bedrock	1.00
		Surface rock fragments	0.60	Depth to saturated zone	0.99
		Restricted permeability	0.31		
Bath	30	Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	0.86	Slow water movement	1.00
		Surface rock fragments	0.60	Slope	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
		Depth to dense material	0.30		
290493					
Lackawanna	50	Very limited		Very limited	
		Slope	1.00	Slow water movement	1.00
		Depth to saturated zone	0.80	Slope	1.00
		Depth to dense material	0.76	Depth to bedrock	1.00
		Surface rock fragments	0.60	Depth to saturated zone	0.99
		Restricted permeability	0.31		
Bath	30	Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	0.86	Slow water movement	1.00
		Surface rock fragments	0.60	Slope	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
		Depth to dense material	0.30		
290506					
Lordstown	80	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	0.89
				Slow water movement	0.50

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290507					
Lordstown	80	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	0.89
		Slope	0.20	Slow water movement	0.50
				Slope	0.11
290509					
Lordstown	80	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	0.89
			0.31	Slow water movement	0.50
290510					
Maplecrest	80	Somewhat limited		Very limited	
		Restricted permeability	0.31	Depth to bedrock	1.00
				Depth to saturated zone	1.00
				Slow water movement	0.50
290511					
Maplecrest	80	Somewhat limited		Very limited	
		Restricted permeability	0.31	Depth to bedrock	1.00
		Slope	0.20	Depth to saturated zone	1.00
				Slow water movement	0.50
				Slope	0.11
290512					
Maplecrest	80	Very limited		Very limited	
		Slope	1.00	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00
				Slope	0.83
				Slow water movement	0.50
290514					
Mardin	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.88	Slow water movement	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290515					
Mardin	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.88	Slow water movement	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
		Slope	0.20	Slope	0.11
					0.11
290519					
Mongaup	80	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	0.95
				Slow water movement	0.50
290522					
Morris	85	Very limited		Very limited	
		Depth to dense material	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slow water movement	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
290523					
Morris	85	Very limited		Very limited	
		Depth to dense material	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slow water movement	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
290525					
Morris	50	Very limited		Very limited	
		Depth to dense material	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slow water movement	1.00
		Surface rock fragments	0.60	Depth to bedrock	1.00
		Restricted permeability	0.31		
		Slope	0.06		
Volusia	30	Very limited		Very limited	
		Depth to dense material	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slow water movement	1.00
		Surface rock fragments	0.60	Depth to bedrock	1.00
		Restricted permeability	0.31		
		Slope	0.06		

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290526					
Norchip	80	Very limited		Very limited	
		Depth to dense material	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slow water movement	1.00
				Depth to bedrock	1.00
290535					
Oquaga	80	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	0.99
				Slow water movement	0.50
290536					
Oquaga	80	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	0.99
		Slope	0.20	Slow water movement	0.50
				Slope	0.11
290539					
Oquaga	80	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	0.99
				Slow water movement	0.50
290540					
Oquaga	25	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Surface rock fragments	0.60	Depth to bedrock	0.99
		Restricted permeability	0.31	Slow water movement	0.50
		Slope	0.20	Slope	0.01
Lordstown	25	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Surface rock fragments	0.60	Depth to bedrock	0.89
		Restricted permeability	0.31	Slow water movement	0.50
		Slope	0.20	Slope	0.01
Arnot	25	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Surface rock fragments	0.60	Depth to saturated zone	1.00
		Restricted permeability	0.31	Slope	0.01
		Slope	0.20		

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290541					
Oquaga	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Surface rock fragments	0.60	Depth to bedrock	0.99
		Restricted permeability	0.31	Slow water movement	0.50
Lordstown	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Surface rock fragments	0.60	Depth to bedrock	0.89
		Restricted permeability	0.31	Slow water movement	0.50
Arnot	25	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00
		Surface rock fragments	0.60	Depth to saturated zone	1.00
		Restricted permeability	0.31		
290542					
Oquaga	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Surface rock fragments	0.60	Depth to bedrock	0.99
		Restricted permeability	0.31	Slow water movement	0.50
Lordstown	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Surface rock fragments	0.60	Depth to bedrock	0.89
		Restricted permeability	0.31	Slow water movement	0.50
Arnot	25	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00
		Surface rock fragments	0.60	Depth to saturated zone	1.00
		Restricted permeability	0.31		
290544					
Pits, gravel	85	Not rated		Very limited	
				Filtering capacity	1.00
				Depth to bedrock	1.00
				Depth to saturated zone	1.00

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290546					
Raypol	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Ponding	1.00	Depth to saturated zone	1.00
		Seepage	0.90	Filtering capacity	1.00
		Flooding	0.40	Depth to bedrock	1.00
		Restricted permeability	0.31	Flooding	0.40
290547					
Red Hook	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
				Slow water movement	0.50
290548					
Riverhead	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
				Depth to saturated zone	1.00
290549					
Riverhead	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
				Depth to saturated zone	1.00
290555					
Torull	40	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.99		
Gretor	40	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.84	Slow water movement	1.00
		Depth to bedrock	0.75	Depth to bedrock	0.97
290556					
Tunkhannock	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
				Depth to saturated zone	1.00
290562					
Tunkhannock	50	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
		Flooding	0.40	Flooding	0.40
		Depth to saturated zone	0.17	Depth to saturated zone	0.22

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290562					
Chenango	30	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
		Flooding	0.40	Flooding	0.40
		Depth to saturated zone	0.17	Depth to saturated zone	0.22
290563					
Udorthents	80	Not rated		Not rated	
290565					
Unadilla	80	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00
				Slow water movement	0.50
290567					
Valois	80	Somewhat limited		Very limited	
		Restricted permeability	0.31	Depth to bedrock	1.00
				Depth to saturated zone	1.00
				Slow water movement	0.50
290568					
Valois	80	Somewhat limited		Very limited	
		Restricted permeability	0.31	Depth to bedrock	1.00
		Slope	0.20	Depth to saturated zone	1.00
				Slow water movement	0.50
				Slope	0.11
290569					
Valois	80	Very limited		Very limited	
		Slope	1.00	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00
				Slope	0.83
				Slow water movement	0.50
290570					
Valois	80	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
				Depth to saturated zone	1.00
				Slow water movement	0.50
290576					
Volusia	85	Very limited		Very limited	
		Depth to dense material	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slow water movement	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290578					
Wellsboro	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.88	Slow water movement	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
290579					
Wellsboro	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.88	Slow water movement	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
		Slope	0.20	Slope	0.11
290581					
Wellsboro	50	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.88	Slow water movement	1.00
		Surface rock fragments	0.60	Depth to bedrock	1.00
		Restricted permeability	0.31	Slope	0.01
		Slope	0.20		
Mardin	30	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.88	Slow water movement	1.00
		Surface rock fragments	0.60	Depth to bedrock	1.00
		Restricted permeability	0.31	Slope	0.01
		Slope	0.20		
290582					
Wenonah	85	Somewhat limited		Very limited	
		Flooding	0.40	Depth to bedrock	1.00
		Depth to saturated zone	0.17	Flooding	0.40
				Depth to saturated zone	0.22
290592					
Carlisle	45	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Ponding	1.00	Depth to saturated zone	1.00
				Subsidence	1.00
				Depth to bedrock	1.00

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
290592					
Palms	40	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Ponding	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.08	Subsidence	1.00
				Depth to bedrock	1.00
				Slow water movement	0.73
293892					
Alden, extremely stony	75	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Ponding	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.99	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
293895					
Arnot	50	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00
		Slope	0.20	Slope	0.11
Lordstown	35	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	0.78
		Slope	0.20	Slow water movement	0.50
				Slope	0.11
293896					
Arnot	60	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.31	Slope	0.83
Lordstown	30	Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00
		Depth to bedrock	0.75	Slope	0.83
		Restricted permeability	0.31	Depth to bedrock	0.83
				Slow water movement	0.50
293897					
Arnot	65	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
293897					
Lordstown	25	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	0.85
				Slow water movement	0.50
293921					
Erie, extremely stony	80	Very limited		Very limited	
		Depth to dense material	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Surface rock fragments	0.80	Slow water movement	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
293929					
Hoosic	80	Very limited		Very limited	
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
				Depth to saturated zone	1.00
293930					
Hoosic	80	Very limited		Very limited	
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
		Slope	0.20	Depth to saturated zone	1.00
				Slope	0.11
293931					
Hoosic	80	Very limited		Very limited	
		Slope	1.00	Filtering capacity	1.00
		Seepage	1.00	Depth to bedrock	1.00
		Filtering capacity	1.00	Depth to saturated zone	1.00
				Slope	0.83
293932					
Lordstown	80	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	0.75
				Slow water movement	0.50

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
293939					
Middlebury	80	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Seepage	0.90	Depth to bedrock	1.00
		Restricted permeability	0.31	Slow water movement	0.50
293943					
Otisville	80	Very limited		Very limited	
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
				Depth to saturated zone	1.00
293944					
Otisville	80	Very limited		Very limited	
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
		Slope	0.20	Depth to saturated zone	1.00
				Slope	0.11
293945					
Otisville	80	Very limited		Very limited	
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
		Slope	1.00	Depth to saturated zone	1.00
				Slope	0.83
293946					
Otisville	40	Very limited		Very limited	
		Seepage	1.00	Slope	1.00
		Filtering capacity	1.00	Filtering capacity	1.00
		Slope	1.00	Depth to bedrock	1.00
				Depth to saturated zone	1.00
Hoosic	40	Very limited		Very limited	
		Slope	1.00	Filtering capacity	1.00
		Seepage	1.00	Slope	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
				Depth to saturated zone	1.00
293949					
Pits, gravel	75	Not rated		Not rated	
293961					
Rock outcrop	50	Not rated		Not rated	

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
293961					
Arnot	35	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00
		Slope	0.20	Slope	0.11
293962					
Rock outcrop	50	Not rated		Not rated	
Arnot	40	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.31	Slope	0.83
293963					
Rock outcrop	60	Not rated		Not rated	
Arnot	30	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00
293975					
Suncook	80	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
		Depth to saturated zone	0.17	Depth to saturated zone	0.22
293979					
Swartswood, very stony	40	Somewhat limited		Very limited	
		Depth to dense material	0.75	Depth to cemented pan	1.00
		Depth to saturated zone	0.68	Slow water movement	1.00
		Surface rock fragments	0.60	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	0.96
		Slope	0.20	Slope	0.11
Mardin	40	Somewhat limited		Very limited	
		Depth to dense material	0.89	Depth to cemented pan	1.00
		Depth to saturated zone	0.80	Slow water movement	1.00
		Surface rock fragments	0.60	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	0.99
		Slope	0.20	Slope	0.11

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
293980					
Swartswood, very stony	40	Very limited		Very limited	
		Slope	1.00	Depth to cemented pan	1.00
		Depth to dense material	0.75	Slow water movement	1.00
		Depth to saturated zone	0.68	Slope	1.00
		Surface rock fragments	0.60	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	0.96
Mardin	40	Very limited		Very limited	
		Slope	1.00	Depth to cemented pan	1.00
		Depth to dense material	0.89	Slow water movement	1.00
		Depth to saturated zone	0.80	Slope	1.00
		Surface rock fragments	0.60	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	0.99
293981					
Swartswood, very stony	40	Very limited		Very limited	
		Slope	1.00	Depth to cemented pan	1.00
		Depth to dense material	0.75	Slow water movement	1.00
		Depth to saturated zone	0.68	Slope	1.00
		Surface rock fragments	0.60	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	0.96
Mardin	35	Very limited		Very limited	
		Slope	1.00	Depth to cemented pan	1.00
		Depth to dense material	0.89	Slow water movement	1.00
		Depth to saturated zone	0.80	Slope	1.00
		Surface rock fragments	0.60	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	0.99
293983					
Udifluvents, frequently flooded	45	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
		Depth to saturated zone	0.33	Depth to saturated zone	0.40

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
293983					
Fluvaquents	30	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Ponding	1.00
		Seepage	1.00	Depth to saturated zone	1.00
		Filtering capacity	1.00	Filtering capacity	1.00
		Ponding	1.00	Depth to bedrock	1.00
295043					
Alden	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Ponding	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.94	Slow water movement	1.00
				Depth to bedrock	1.00
295044					
Arnot	40	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00
		Slope	0.20		
Lordstown	40	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	0.95
		Slope	0.20	Slow water movement	0.50
295045					
Arnot	40	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00
Lordstown	40	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	0.95
				Slow water movement	0.50
295046					
Arnot	45	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00
		Slope	0.20		
Oquaga	40	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	0.81
		Slope	0.20	Slow water movement	0.50

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295047					
Arnot	50	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00
Oquaga	35	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	0.81
				Slow water movement	0.50
295048					
Arnot	60	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00
		Slope	0.20		
Rock outcrop	25	Not rated		Not rated	
295049					
Arnot	55	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00
Rock outcrop	30	Not rated		Not rated	
295050					
Arnot	45	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00
Rock outcrop	40	Not rated		Not rated	
295051					
Barbour	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
		Flooding	0.40	Flooding	0.40
		Depth to saturated zone	0.17	Depth to saturated zone	0.22
295052					
Bash	85	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
				Slow water movement	0.32

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295053					
Carlisle	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Ponding	1.00	Depth to saturated zone	1.00
				Subsidence	1.00
				Depth to bedrock	1.00
295054					
Carlisle, ponded	25	Very limited		Very limited	
		Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
				Subsidence	1.00
				Depth to bedrock	1.00
Palms, ponded	25	Very limited		Very limited	
		Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.35	Subsidence	1.00
				Depth to bedrock	1.00
				Slow water movement	0.73
Alden, ponded	25	Very limited		Very limited	
		Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.94	Slow water movement	1.00
				Depth to bedrock	1.00
295055					
Chenango	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
				Depth to saturated zone	1.00
295056					
Chenango	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
				Depth to saturated zone	1.00
295057					
Chenango	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
		Slope	0.20	Depth to saturated zone	1.00
				Slope	0.11
295059					
Cheshire, stony	85	Not limited		Very limited	
				Depth to bedrock	1.00
				Depth to saturated zone	1.00

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295060					
Cheshire, stony---	85	Somewhat limited		Very limited	
		Slope	0.20	Depth to bedrock	1.00
				Depth to saturated zone	1.00
				Slope	0.11
295061					
Cheshire, stony---	85	Very limited		Very limited	
		Slope	1.00	Depth to bedrock	1.00
				Depth to saturated zone	1.00
				Slope	0.83
295062					
Cheshire, stony---	85	Very limited		Very limited	
		Slope	1.00	Slope	1.00
				Depth to bedrock	1.00
				Depth to saturated zone	1.00
295063					
Cheshire, stony---	85	Very limited		Very limited	
		Slope	1.00	Slope	1.00
				Depth to bedrock	1.00
				Depth to saturated zone	1.00
295069					
Fluvaquents---	45	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Ponding	1.00
		Ponding	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
				Slow water movement	0.50
Udifluvents, frequently flooded---	40	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
		Depth to saturated zone	0.33	Depth to saturated zone	0.40
295074					
Lackawanna---	80	Somewhat limited		Very limited	
		Depth to saturated zone	0.85	Depth to cemented pan	1.00
		Depth to dense material	0.82	Slow water movement	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
				Depth to saturated zone	0.98

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295075					
Lackawanna	85	Somewhat limited		Very limited	
		Depth to saturated zone	0.85	Depth to cemented pan	1.00
		Depth to dense material	0.82	Slow water movement	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
		Slope	0.20	Depth to saturated zone	0.98
				Slope	0.11
295076					
Lackawanna	85	Very limited		Very limited	
		Slope	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	0.85	Slow water movement	1.00
		Depth to dense material	0.82	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	0.98
				Slope	0.83
295082					
Lordstown, stony	85	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	0.95
				Slow water movement	0.50
295083					
Lordstown, very stony	55	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Surface rock fragments	0.60	Depth to bedrock	0.95
		Restricted permeability	0.31	Slow water movement	0.50
		Slope	0.20	Slope	0.11
Arnot, very stony	25	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Surface rock fragments	0.60	Depth to saturated zone	1.00
		Restricted permeability	0.31	Slope	0.11
		Slope	0.20		
295092					
Morris	85	Very limited		Very limited	
		Depth to dense material	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.31	Slow water movement	1.00
				Depth to bedrock	1.00

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295093					
Morris	85	Very limited		Very limited	
		Depth to dense material	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.31	Slow water movement	1.00
				Depth to bedrock	1.00
295094					
Morris	85	Very limited		Very limited	
		Depth to dense material	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.31	Slow water movement	1.00
		Slope	0.20	Depth to bedrock	1.00
				Slope	0.03
295095					
Neversink	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	1.00	Slow water movement	1.00
				Depth to bedrock	1.00
295101					
Oquaga	85	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	0.81
				Slow water movement	0.50
295102					
Oquaga	50	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	0.81
		Slope	0.20	Slow water movement	0.50
				Slope	0.11
Arnot	35	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00
		Slope	0.20	Slope	0.11
295103					
Oquaga	50	Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00
		Depth to bedrock	0.75	Slope	0.83
		Restricted permeability	0.31	Depth to bedrock	0.81
				Slow water movement	0.50

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295103					
Arnot	35	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.31	Slope	0.83
295105					
Otisville	85	Very limited		Very limited	
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
				Depth to saturated zone	1.00
295106					
Otisville	85	Very limited		Very limited	
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
				Depth to saturated zone	1.00
295107					
Otisville	85	Very limited		Very limited	
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
		Slope	0.20	Depth to saturated zone	1.00
				Slope	0.11
295109					
Palms	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Ponding	1.00	Depth to	1.00
		Restricted permeability	0.35	Subsidence	1.00
				Depth to bedrock	1.00
				Slow water movement	0.73
295110					
Philo	85	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Depth to saturated zone	0.89	Depth to saturated zone	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
				Slow water movement	0.50
295111					
Pits, gravel	80	Not rated		Not rated	
295112					
Pits, quarry	80	Not rated		Not rated	
295113					
Pompton	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Seepage	0.90	Depth to bedrock	1.00

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295114					
Pompton	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Seepage	0.90	Depth to bedrock	1.00
295115					
Pope, occasionally flooded	85	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
				Depth to bedrock	1.00
				Depth to saturated zone	1.00
295116					
Pope, rarely flooded	85	Not limited		Very limited	
				Depth to bedrock	1.00
				Depth to saturated zone	1.00
295117					
Raynham, poorly drained	50	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.49	Slow water movement	1.00
				Depth to bedrock	1.00
Raynham, somewhat poorly drained	30	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.49	Slow water movement	1.00
				Depth to bedrock	1.00
295118					
Red Hook	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.49	Depth to bedrock	1.00
				Slow water movement	0.73
295119					
Riverhead	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
				Depth to saturated zone	1.00
295120					
Riverhead	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
				Depth to saturated zone	1.00

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295121					
Riverhead	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
		Slope	0.20	Depth to saturated zone	1.00
				Slope	0.11
295122					
Scio	80	Somewhat limited		Very limited	
		Seepage	0.90	Depth to saturated zone	1.00
		Depth to saturated zone	0.89	Depth to bedrock	1.00
		Restricted permeability	0.31	Slow water movement	0.50
295123					
Scriba, stony	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to cemented pan	1.00
		Restricted permeability	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.95	Slow water movement	1.00
				Depth to bedrock	1.00
295124					
Scriba, stony	75	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to cemented pan	1.00
		Restricted permeability	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.95	Slow water movement	1.00
				Depth to bedrock	1.00
295125					
Scriba, extremely stony	40	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to cemented pan	1.00
		Restricted permeability	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.95	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
Morris, extremely stony	40	Very limited		Very limited	
		Depth to dense material	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Surface rock fragments	0.80	Slow water movement	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295126					
Suncook	80	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
		Depth to saturated zone	0.17	Depth to saturated zone	0.22
295129					
Swartswood	85	Somewhat limited		Very limited	
		Depth to saturated zone	0.80	Depth to cemented pan	1.00
		Depth to dense material	0.71	Slow water movement	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
				Depth to saturated zone	0.99
295130					
Swartswood	85	Somewhat limited		Very limited	
		Depth to saturated zone	0.80	Depth to cemented pan	1.00
		Depth to dense material	0.71	Slow water movement	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
		Slope	0.20	Depth to saturated zone	0.99
				Slope	0.11
295131					
Swartswood	85	Very limited		Very limited	
		Slope	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	0.80	Slow water movement	1.00
		Depth to dense material	0.71	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	0.99
				Slope	0.83
295132					
Swartswood, stony	40	Very limited		Very limited	
		Slope	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	0.80	Slow water movement	1.00
		Depth to dense material	0.71	Slope	1.00
				Depth to bedrock	1.00
				Depth to saturated zone	0.99
Lackawanna, stony	40	Very limited		Very limited	
		Slope	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	0.85	Slow water movement	1.00
		Depth to dense material	0.82	Slope	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
				Depth to saturated zone	0.98

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295133					
Swartswood, very stony	40	Very limited		Very limited	
		Slope	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	0.80	Slow water movement	1.00
		Depth to dense material	0.71	Slope	1.00
		Surface rock fragments	0.60	Depth to bedrock	1.00
				Depth to saturated zone	0.99
Lackawanna, very stony	40	Very limited		Very limited	
		Slope	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	0.85	Slow water movement	1.00
		Depth to dense material	0.82	Slope	1.00
		Surface rock fragments	0.60	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	0.98
295134					
Swartswood, very stony	40	Very limited		Very limited	
		Slope	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	0.80	Slow water movement	1.00
		Depth to dense material	0.71	Slope	1.00
		Surface rock fragments	0.60	Depth to bedrock	1.00
				Depth to saturated zone	0.99
Lackawanna, very stony	40	Very limited		Very limited	
		Slope	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	0.85	Slow water movement	1.00
		Depth to dense material	0.82	Slope	1.00
		Surface rock fragments	0.60	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	0.98
295136					
Tuller, somewhat poorly drained	40	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.99		

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295136					
Tuller, poorly drained	20	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.99		
Rock outcrop	20	Not rated		Not rated	
295137					
Tunkhannock	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
				Depth to saturated zone	1.00
295138					
Tunkhannock	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
				Depth to saturated zone	1.00
295139					
Tunkhannock	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
		Slope	0.20	Depth to saturated zone	1.00
				Slope	0.11
295140					
Tunkhannock	85	Very limited		Very limited	
		Slope	1.00	Depth to bedrock	1.00
		Seepage	0.90	Depth to saturated zone	1.00
				Slope	0.83
295141					
Tunkhannock	45	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Seepage	0.90	Depth to bedrock	1.00
				Depth to saturated zone	1.00
Otisville	40	Very limited		Very limited	
		Seepage	1.00	Slope	1.00
		Filtering capacity	1.00	Filtering capacity	1.00
		Slope	1.00	Depth to bedrock	1.00
				Depth to saturated zone	1.00
295142					
Tunkhannock	45	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Seepage	0.90	Depth to bedrock	1.00
				Depth to saturated zone	1.00

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295142					
Otisville	40	Very limited		Very limited	
		Seepage	1.00	Slope	1.00
		Filtering capacity	1.00	Filtering capacity	1.00
		Slope	1.00	Depth to bedrock	1.00
				Depth to saturated zone	1.00
295143					
Udorthents	75	Not rated		Not rated	
295144					
Unadilla	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00
				Slow water movement	0.50
295145					
Unadilla	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00
				Slow water movement	0.50
295146					
Valois	80	Somewhat limited		Very limited	
		Restricted permeability	0.31	Depth to bedrock	1.00
				Depth to saturated zone	1.00
				Slow water movement	0.50
295147					
Valois	80	Somewhat limited		Very limited	
		Restricted permeability	0.31	Depth to bedrock	1.00
		Slope	0.20	Depth to saturated zone	1.00
				Slow water movement	0.50
				Slope	0.11
295148					
Valois	80	Very limited		Very limited	
		Slope	1.00	Depth to bedrock	1.00
		Restricted permeability	0.31	Depth to saturated zone	1.00
				Slope	0.83
				Slow water movement	0.50

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295149					
Valois	80	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
				Depth to saturated zone	1.00
				Slow water movement	0.50
295150					
Valois	80	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
				Depth to saturated zone	1.00
				Slow water movement	0.50
295153					
Wayland	85	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Ponding	1.00
		Restricted permeability	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Slow water movement	1.00
				Depth to bedrock	1.00
295154					
Wellsboro	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to cemented pan	1.00
		Depth to dense material	0.95	Depth to saturated zone	1.00
		Restricted permeability	0.31	Slow water movement	1.00
				Depth to bedrock	1.00
295155					
Wellsboro	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to cemented pan	1.00
		Depth to dense material	0.95	Depth to saturated zone	1.00
		Restricted permeability	0.31	Slow water movement	1.00
				Depth to bedrock	1.00
295156					
Wellsboro	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to cemented pan	1.00
		Depth to dense material	0.95	Depth to saturated zone	1.00
		Restricted permeability	0.31	Slow water movement	1.00
		Slope	0.20	Depth to bedrock	1.00
				Slope	0.11

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
295157					
Wellsboro, extremely stony	40	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to cemented pan	1.00
		Depth to dense material	0.95	Depth to saturated zone	1.00
		Surface rock fragments	0.80	Slow water movement	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
		Slope	0.20		
Wurtsboro, extremely stony	40	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to cemented pan	1.00
		Surface rock fragments	0.80	Depth to saturated zone	1.00
		Depth to dense material	0.76	Slow water movement	1.00
		Restricted permeability	0.31	Depth to bedrock	1.00
		Slope	0.20		
295162					
Wurtsboro, stony	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to cemented pan	1.00
		Depth to dense material	0.76	Depth to saturated zone	1.00
		Restricted permeability	0.31	Slow water movement	1.00
				Depth to bedrock	1.00
295163					
Wurtsboro, stony	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to cemented pan	1.00
		Depth to dense material	0.76	Depth to saturated zone	1.00
		Restricted permeability	0.31	Slow water movement	1.00
				Depth to bedrock	1.00
295164					
Wurtsboro, stony	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to cemented pan	1.00
		Depth to dense material	0.76	Depth to saturated zone	1.00
		Restricted permeability	0.31	Slow water movement	1.00
		Slope	0.20	Depth to bedrock	1.00
				Slope	0.11
296588					
Arnot	90	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Restricted permeability	0.29	Depth to saturated zone	1.00

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296589					
Arnot	90	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Restricted permeability	0.29	Depth to saturated zone	1.00
		Slope	0.20	Slope	0.11
296590					
Arnot	95	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.29	Slope	0.83
296591					
Barbour	70	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Seepage	0.90	Depth to bedrock	1.00
		Restricted permeability	0.29	Depth to saturated zone	0.22
		Depth to saturated zone	0.17		
296592					
Basher	87	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Depth to saturated zone	0.80	Depth to bedrock	1.00
		Restricted permeability	0.48	Depth to saturated zone	0.99
				Slow water movement	0.72
296593					
Fluvents	70	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Depth to saturated zone	0.17	Depth to bedrock	1.00
				Depth to saturated zone	0.80
Fluvaquents	20	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
				Depth to bedrock	1.00
296594					
Holly	95	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Ponding	1.00
		Ponding	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.48	Depth to bedrock	1.00
				Slow water movement	0.72
296595					
Linden	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
		Depth to saturated zone	0.17	Depth to saturated zone	0.22

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296596					
Lordstown	94	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.29	Depth to bedrock	0.92
				Slow water movement	0.47
296599					
Lordstown	80	Somewhat limited		Very limited	
		Surface rock fragments	0.80	Depth to saturated zone	1.00
		Depth to bedrock	0.75	Depth to bedrock	0.92
		Restricted permeability	0.29	Slow water movement	0.47
296600					
Lordstown	90	Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00
		Surface rock fragments	0.80	Depth to bedrock	0.92
		Depth to bedrock	0.75	Slope	0.56
		Restricted permeability	0.29	Slow water movement	0.47
296601					
Medihemists	60	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Ponding	1.00	Depth to saturated zone	1.00
				Subsidence	1.00
				Depth to bedrock	1.00
Medifibrists	30	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Ponding	1.00	Depth to saturated zone	1.00
				Subsidence	1.00
				Depth to bedrock	1.00
296602					
Mardin	90	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.89	Slow water movement	1.00
		Restricted permeability	0.29	Depth to bedrock	1.00
296603					
Mardin	90	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.89	Slow water movement	1.00
		Restricted permeability	0.29	Depth to bedrock	1.00
		Slope	0.20	Slope	0.11

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296604					
Mardin	90	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slope	1.00	Slow water movement	1.00
		Depth to dense material	0.89	Depth to bedrock	1.00
		Restricted permeability	0.29	Slope	0.83
296605					
Mardin	90	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.89	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29		
296606					
Mardin	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slope	1.00	Slow water movement	1.00
		Depth to dense material	0.89	Depth to bedrock	1.00
		Surface rock fragments	0.80	Slope	0.56
		Restricted permeability	0.29		
296608					
Morris	75	Very limited		Very limited	
		Depth to dense material	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slow water movement	1.00
		Restricted permeability	0.29	Depth to bedrock	1.00
296609					
Morris	80	Very limited		Very limited	
		Depth to dense material	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slow water movement	1.00
		Slope	1.00	Depth to bedrock	1.00
		Restricted permeability	0.29	Slope	0.17

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296610					
Morris	75	Very limited		Very limited	
		Depth to dense material	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29		
296611					
Morris	90	Very limited		Very limited	
		Depth to dense material	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29	Slope	0.11
		Slope	0.20		
296613					
Norwich	63	Very limited		Very limited	
		Depth to dense material	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29		
Chippewa	33	Very limited		Very limited	
		Depth to dense material	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29		
296614					
Oquaga	85	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.29	Depth to bedrock	0.92
				Slow water movement	0.47
296615					
Oquaga	85	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Restricted permeability	0.29	Depth to bedrock	0.92
		Slope	0.20	Slow water movement	0.47
				Slope	0.11

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296616					
Oquaga	85	Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00
		Depth to bedrock	0.75	Depth to bedrock	0.92
		Restricted permeability	0.29	Slope	0.83
				Slow water movement	0.47
296617					
Oquaga	85	Somewhat limited		Very limited	
		Surface rock fragments	0.80	Depth to saturated zone	1.00
		Depth to bedrock	0.75	Depth to bedrock	0.92
		Restricted permeability	0.29	Slow water movement	0.47
296618					
Oquaga	85	Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00
		Surface rock fragments	0.80	Depth to bedrock	0.92
		Depth to bedrock	0.75	Slope	0.56
		Restricted permeability	0.29	Slow water movement	0.47
296619					
Oquaga	45	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Surface rock fragments	0.80	Depth to saturated zone	1.00
		Depth to bedrock	0.75	Depth to bedrock	0.92
		Restricted permeability	0.29	Slow water movement	0.47
Lordstown	20	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Surface rock fragments	0.80	Depth to saturated zone	1.00
		Depth to bedrock	0.75	Depth to bedrock	0.92
		Restricted permeability	0.29	Slow water movement	0.47
		Content of large stones	0.10	Large stones	0.10
296621					
Quarries	100	Not rated		Not rated	
296622					
Rexford, poorly drained	45	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	1.00	Slow water movement	1.00
		Seepage	0.90	Depth to bedrock	1.00
		Depth to dense material	0.88		

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296622					
Rexford, somewhat poorly drained	40	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	1.00	Slow water movement	1.00
		Seepage	0.90	Depth to bedrock	1.00
		Depth to dense material	0.88		
296623					
Rock outcrop	70	Not rated		Not rated	
Arnot	20	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.29	Slope	0.25
296625					
Swartswood	90	Somewhat limited		Very limited	
		Depth to saturated zone	0.75	Slow water movement	1.00
		Depth to dense material	0.71	Depth to bedrock	1.00
		Restricted permeability	0.29	Depth to saturated zone	0.96
		Slope	0.20	Slope	0.11
296628					
Swartswood	90	Very limited		Very limited	
		Slope	1.00	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Depth to saturated zone	0.75	Depth to saturated zone	0.96
		Depth to dense material	0.71	Slope	0.56
		Restricted permeability	0.29	Large stones	0.06
296630					
Volusia	75	Very limited		Very limited	
		Depth to dense material	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slow water movement	1.00
		Restricted permeability	0.29	Depth to bedrock	1.00
296632					
Volusia	75	Very limited		Very limited	
		Depth to dense material	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29		

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296633					
Volusia	90	Very limited		Very limited	
		Depth to dense material	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29	Slope	0.11
		Slope	0.20		
296634					
Wellsboro	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.89	Slow water movement	1.00
		Restricted permeability	0.29	Depth to bedrock	1.00
296635					
Wellsboro	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.89	Slow water movement	1.00
		Restricted permeability	0.29	Depth to bedrock	1.00
		Slope	0.20	Slope	0.11
296636					
Wellsboro		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.89	Slow water movement	1.00
		Restricted permeability	0.29	Depth to bedrock	1.00
		Slope	0.20	Slope	0.11
296637					
Wellsboro	80	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.89	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29		

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296638					
Wellsboro	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slope	1.00	Slow water movement	1.00
		Depth to dense material	0.89	Depth to bedrock	1.00
		Surface rock fragments	0.80	Slope	0.56
		Restricted permeability	0.29		
296639					
Wellsboro	70	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slope	1.00	Slow water movement	1.00
		Depth to dense material	0.89	Slope	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29		
Mardin	20	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slope	1.00	Slow water movement	1.00
		Depth to dense material	0.89	Slope	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29		
296640					
Wyoming	85	Very limited		Very limited	
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
				Depth to saturated zone	1.00
296641					
Wyoming	85	Very limited		Very limited	
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
		Slope	0.20	Depth to saturated zone	1.00
				Slope	0.11
296642					
Wyoming	85	Very limited		Very limited	
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
		Slope	1.00	Depth to saturated zone	1.00
				Slope	0.83

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
296643					
Wyoming	90	Very limited		Very limited	
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Slope	1.00
		Slope	1.00	Depth to bedrock	1.00
				Depth to saturated zone	1.00
296644					
Water	100	Not rated		Not rated	
297185					
Edgemere	42	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Surface rock fragments	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Slow water movement	1.00
		Depth to dense material	0.88	Depth to bedrock	1.00
		Restricted permeability	0.29		
Shohola	42	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Surface rock fragments	1.00	Slow water movement	1.00
		Depth to dense material	0.81	Depth to bedrock	1.00
		Restricted permeability	0.29	Slope	0.01
		Slope	0.20		
297186					
Edgemere	75	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Surface rock fragments	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Slow water movement	1.00
		Depth to dense material	0.88	Depth to bedrock	1.00
		Restricted permeability	0.29		
297188					
Manlius	40	Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00
		Surface rock fragments	1.00	Slope	0.97
		Depth to bedrock	0.75	Depth to bedrock	0.92
		Restricted permeability	0.29	Slow water movement	0.47

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297188					
Arnot	35	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Depth to saturated zone	1.00
		Surface rock fragments	1.00	Slope	0.97
		Restricted permeability	0.29	Large stones	0.10
		Content of large stones	0.10		
Rock outcrop	15	Not rated		Not rated	
297189					
Manlius	40	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Surface rock fragments	1.00	Depth to saturated zone	1.00
		Depth to bedrock	0.75	Depth to bedrock	0.92
		Restricted permeability	0.29	Slow water movement	0.47
Arnot	35	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00
		Surface rock fragments	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.29	Large stones	0.10
		Content of large stones	0.10		
Rock outcrop	15	Not rated		Not rated	
297190					
Braceville	82	Very limited		Very limited	
		Depth to saturated zone	1.00	Slow water movement	1.00
		Seepage	0.90	Depth to bedrock	1.00
		Depth to dense material	0.88	Depth to saturated zone	0.99
297191					
Wyalusing	85	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Seepage	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
297192					
Pope	95	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
				Depth to bedrock	1.00
				Depth to saturated zone	1.00

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297193					
Paupack	90	Very limited		Very limited	
		Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.15	Subsidence	1.00
				Depth to bedrock	1.00
				Slow water movement	0.72
297194					
Morris	82	Very limited		Very limited	
		Depth to dense material	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slow water movement	1.00
		Surface rock fragments	0.60	Depth to bedrock	1.00
		Restricted permeability	0.29		
297196					
Freetown	94	Very limited		Very limited	
		Ponding	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
				Depth to bedrock	1.00
297199					
Oquaga	78	Somewhat limited		Very limited	
		Surface rock fragments	0.80	Depth to saturated zone	1.00
		Depth to bedrock	0.75	Depth to bedrock	0.89
		Restricted permeability	0.29	Slow water movement	0.47
		Content of large stones	0.07	Large stones	0.07
297200					
Oquaga	78	Somewhat limited		Very limited	
		Surface rock fragments	0.80	Depth to saturated zone	1.00
		Depth to bedrock	0.75	Depth to bedrock	0.89
		Restricted permeability	0.29	Slow water movement	0.47
		Slope	0.20	Slope	0.11
		Content of large stones	0.07	Large stones	0.07
297201					
Oquaga	75	Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00
		Surface rock fragments	0.80	Slope	0.97
		Depth to bedrock	0.75	Depth to bedrock	0.89
		Restricted permeability	0.29	Slow water movement	0.47
		Content of large stones	0.02	Large stones	0.02

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297202					
Oquaga	40	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Surface rock fragments	0.80	Depth to saturated zone	1.00
		Depth to bedrock	0.75	Depth to bedrock	0.89
		Content of large stones	0.35	Slow water movement	0.47
		Restricted permeability	0.29	Large stones	0.35
Arnot	30	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00
		Surface rock fragments	0.80	Depth to saturated zone	1.00
		Restricted permeability	0.29		
Rock outcrop	20	Not rated		Not rated	
297203					
Delaware	93	Somewhat limited		Very limited	
		Seepage	0.90	Depth to saturated zone	1.00
		Flooding	0.40	Flooding	0.40
297204					
Delaware	82	Somewhat limited		Very limited	
		Seepage	0.90	Depth to saturated zone	1.00
		Flooding	0.40	Flooding	0.40
297205					
Delaware	80	Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00
		Seepage	0.90	Flooding	0.40
		Flooding	0.40	Slope	0.25
297207					
Wurtsboro	92	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.83	Slow water movement	1.00
		Restricted permeability	0.29	Depth to bedrock	1.00
297208					
Wurtsboro	92	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.83	Slow water movement	1.00
		Restricted permeability	0.29	Depth to bedrock	1.00
		Slope	0.20	Slope	0.11

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297209					
Philo	85	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Depth to saturated zone	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29	Depth to saturated zone	0.96
				Slow water movement	0.47
297210					
Barbour	85	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Seepage	0.90	Depth to bedrock	1.00
		Depth to saturated zone	0.17	Depth to saturated zone	0.22
297211					
Wellsboro	89	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.89	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29		
297212					
Wellsboro	89	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.89	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29	Slope	0.11
		Slope	0.20		
297213					
Wellsboro	82	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slope	1.00	Slow water movement	1.00
		Depth to dense material	0.89	Depth to bedrock	1.00
		Surface rock fragments	0.80	Slope	0.83
		Restricted permeability	0.29		
297215					
Wellsboro	91	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.89	Slow water movement	1.00
		Restricted permeability	0.29	Depth to bedrock	1.00
		Slope	0.20	Slope	0.11

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297216					
Wurtsboro	92	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.84	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29		
297217					
Wurtsboro	88	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.84	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29	Slope	0.11
		Slope	0.20		
297218					
Wurtsboro	88	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slope	1.00	Slow water movement	1.00
		Depth to dense material	0.84	Depth to bedrock	1.00
		Surface rock fragments	0.80	Slope	0.83
		Restricted permeability	0.29		
297221					
Lackawanna	81	Somewhat limited		Very limited	
		Surface rock fragments	0.80	Slow water movement	1.00
		Depth to saturated zone	0.74	Depth to bedrock	1.00
		Restricted permeability	0.29	Depth to saturated zone	0.96
		Depth to dense material	0.28		
297223					
Lackawanna	75	Very limited		Very limited	
		Slope	1.00	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Depth to saturated zone	0.74	Slope	0.97
		Restricted permeability	0.29	Depth to saturated zone	0.96
		Depth to dense material	0.28		

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297224					
Swartswood	95	Somewhat limited		Very limited	
		Surface rock fragments	0.80	Slow water movement	1.00
		Depth to saturated zone	0.30	Depth to bedrock	1.00
		Restricted permeability	0.29	Depth to saturated zone	0.92
		Depth to dense material	0.28		
297225					
Swartswood	95	Somewhat limited		Very limited	
		Surface rock fragments	0.80	Slow water movement	1.00
		Depth to saturated zone	0.30	Depth to bedrock	1.00
		Restricted permeability	0.29	Depth to saturated zone	0.92
		Depth to dense material	0.28	Slope	0.11
		Slope	0.20		
297226					
Swartswood	90	Very limited		Very limited	
		Slope	1.00	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Depth to saturated zone	0.30	Slope	0.97
		Restricted permeability	0.29	Depth to saturated zone	0.92
		Depth to dense material	0.28		
297227					
Arnot	88	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Restricted permeability	0.29	Depth to saturated zone	1.00
		Slope	0.20	Slope	0.01
297228					
Arnot	85	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00
		Restricted permeability	0.29	Depth to saturated zone	1.00
297229					
Wyoming	90	Very limited		Very limited	
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
		Content of large stones	0.50	Depth to saturated zone	1.00
				Large stones	0.26

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297230					
Wyoming	90	Very limited		Very limited	
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
		Slope	0.20	Depth to saturated zone	1.00
		Content of large stones	0.01	Slope	0.11
297231					
Wyoming	90	Very limited		Very limited	
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
		Slope	1.00	Depth to saturated zone	1.00
		Content of large stones	0.72	Slope	0.97
				Large stones	0.53
297236					
Suncook	91	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
				Depth to saturated zone	1.00
297239					
Mardin	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.89	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29		
297240					
Mardin	85	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.89	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29	Slope	0.11
		Slope	0.20		
297241					
Unadilla	90	Somewhat limited		Very limited	
		Restricted permeability	0.29	Depth to bedrock	1.00
				Depth to saturated zone	1.00
				Slow water movement	0.47

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297242					
Shohola	62	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Surface rock fragments	1.00	Slow water movement	1.00
		Depth to dense material	0.81	Depth to bedrock	1.00
		Restricted permeability	0.29		
Edgemere	29	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Ponding	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.88	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29		
297243					
Shohola	62	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Surface rock fragments	1.00	Slow water movement	1.00
		Depth to dense material	0.81	Depth to bedrock	1.00
		Restricted permeability	0.29	Slope	0.11
		Slope	0.20		
Edgemere	29	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Ponding	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.88	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29	Slope	0.11
297244					
Lordstown	40	Somewhat limited		Very limited	
		Surface rock fragments	0.80	Depth to saturated zone	1.00
		Depth to bedrock	0.75	Depth to bedrock	0.92
		Restricted permeability	0.29	Slow water movement	0.47

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297244					
Swartswood	35	Somewhat limited		Very limited	
		Surface rock fragments	0.80	Slow water movement	1.00
		Depth to saturated zone	0.30	Depth to bedrock	1.00
		Restricted permeability	0.29	Depth to saturated zone	0.92
		Depth to dense material	0.28		
297245					
Lordstown	40	Somewhat limited		Very limited	
		Surface rock fragments	0.80	Depth to saturated zone	1.00
		Depth to bedrock	0.75	Depth to bedrock	0.92
		Restricted permeability	0.29	Slow water movement	0.47
		Slope	0.20	Slope	0.11
Swartswood	35	Somewhat limited		Very limited	
		Surface rock fragments	0.80	Slow water movement	1.00
		Depth to saturated zone	0.30	Depth to bedrock	1.00
		Restricted permeability	0.29	Depth to saturated zone	0.92
		Depth to dense material	0.28	Slope	0.11
		Slope	0.20		
297246					
Lordstown	40	Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00
		Surface rock fragments	0.80	Slope	0.97
		Depth to bedrock	0.75	Depth to bedrock	0.92
		Restricted permeability	0.29	Slow water movement	0.47
Swartswood	35	Very limited		Very limited	
		Slope	1.00	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Depth to saturated zone	0.30	Slope	0.97
		Restricted permeability	0.29	Depth to saturated zone	0.92
		Depth to dense material	0.28		
297247					
Chenango	86	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
				Depth to saturated zone	1.00

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
297248					
Chenango	85	Somewhat limited		Very limited	
		Seepage	0.90	Depth to bedrock	1.00
		Slope	0.20	Depth to saturated zone	1.00
				Slope	0.11
297249					
Chenango	90	Very limited		Very limited	
		Slope	1.00	Depth to bedrock	1.00
		Seepage	0.90	Depth to saturated zone	1.00
				Slope	0.83
297250					
Lordstown	94	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Surface rock fragments	0.60	Depth to bedrock	0.92
		Restricted permeability	0.29	Slow water movement	0.47
297251					
Lordstown	86	Somewhat limited		Very limited	
		Depth to bedrock	0.75	Depth to saturated zone	1.00
		Surface rock fragments	0.60	Depth to bedrock	0.92
		Restricted permeability	0.29	Slow water movement	0.47
		Slope	0.20	Slope	0.11
297253					
Craigsville	50	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Seepage	1.00	Filtering capacity	1.00
		Content of large stones	1.00	Depth to bedrock	1.00
		Filtering capacity	1.00	Large stones	0.99
		Surface rock fragments	0.80		
Wyoming	40	Very limited		Very limited	
		Seepage	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Depth to bedrock	1.00
		Surface rock fragments	0.40	Depth to saturated zone	1.00
297254					
Pits, shale	40	Not rated		Not rated	
Pits, gravel	40	Not rated		Not rated	

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
309440					
Edgemere	42	Very limited		Very limited	
		Depth to saturated zone	1.00	Ponding	1.00
		Surface rock fragments	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Slow water movement	1.00
		Depth to dense material	0.88	Depth to bedrock	1.00
		Restricted permeability	0.29		
Shohola	42	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Surface rock fragments	1.00	Slow water movement	1.00
		Depth to dense material	0.81	Depth to bedrock	1.00
		Restricted permeability	0.29	Slope	0.01
		Slope	0.20		
319863					
Oquaga	40	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Surface rock fragments	0.80	Depth to saturated zone	1.00
		Depth to bedrock	0.75	Depth to bedrock	0.89
		Content of large stones	0.35	Slow water movement	0.47
		Restricted permeability	0.29	Large stones	0.35
Arnot	30	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00
		Surface rock fragments	0.80	Depth to saturated zone	1.00
		Restricted permeability	0.29		
Rock outcrop	20	Not rated		Not rated	
319865					
Wellsboro	89	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to dense material	0.89	Slow water movement	1.00
		Surface rock fragments	0.80	Depth to bedrock	1.00
		Restricted permeability	0.29		

Table 10.--Septic Tank Absorption Fields for New York and Pennsylvania--Continued

Map unit symbol and soil name	Pct. of map unit	Septic tank absorption fields (NY)		Septic tank absorption fields (PA)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
741008 Oquaga	78	Somewhat limited		Very limited	
		Surface rock fragments	0.80	Depth to saturated zone	1.00
		Depth to bedrock	0.75	Depth to bedrock	0.89
		Restricted permeability	0.29	Slow water movement	0.47
		Content of large stones	0.07	Large stones	0.07

Table 11.--Source of Gravel and Sand

[Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table]

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
290457					
Barbour	85	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.07
290461					
Bath	80	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
290465					
Cadosia	75	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.03
290466					
Cadosia	75	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.03
290468					
Chenango	85	Fair		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.22	Bottom layer	0.14
290483					
Fluvaquents	45	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Udifluvents	35	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
290484					
Halcott	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Mongaup	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Vly	25	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.12	Thickest layer	0.00
290485					
Halcott	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
290485					
Mongaup	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Vly	25	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.12	Thickest layer	0.00
290487					
Lackawanna	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
290488					
Lackawanna	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
290489					
Lackawanna	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
290490					
Lackawanna	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
290491					
Lackawanna	50	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Bath	30	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
290492					
Lackawanna	50	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Bath	30	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
290493					
Lackawanna	50	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Bath	30	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
290506					
Lordstown	80	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
290507					
Lordstown	80	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
290509					
Lordstown	80	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
290510					
Maplecrest	80	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.07	Thickest layer	0.00
290511					
Maplecrest	80	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.07	Thickest layer	0.00
290512					
Maplecrest	80	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.07	Thickest layer	0.00
290514					
Mardin	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
290515					
Mardin	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
290519					
Mongaup	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
290522					
Morris	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
290523					
Morris	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
290525					
Morris	50	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Volusia	30	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
290526					
Norchip	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
290535					
Oquaga	80	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
290536					
Oquaga	80	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
290539					
Oquaga	80	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
290540					
Oquaga	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Lordstown	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Arnot	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
290541					
Oquaga	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Lordstown	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Arnot	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
290542					
Oquaga	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Lordstown	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Arnot	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
290544					
Pits, gravel	85	Fair		Fair	
		Bottom layer	0.44	Bottom layer	0.58
		Thickest layer	0.63	Thickest layer	0.58
290546					
Raypol	80	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.02
		Thickest layer	0.00	Bottom layer	0.86
290547					
Red Hook	80	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
290548					
Riverhead	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.86
290549					
Riverhead	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.86
290555					
Torull	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Gretor	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
290556					
Tunkhannock	85	Fair		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.25	Bottom layer	0.14
290562					
Tunkhannock	50	Fair		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.25	Bottom layer	0.14
Chenango	30	Fair		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.12	Bottom layer	0.14
290563					
Udorthents	80	Not rated		Not rated	
290565					
Unadilla	80	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.07
290567					
Valois	80	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.07	Thickest layer	0.00

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
290568					
Valois	80	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.07	Thickest layer	0.00
290569					
Valois	80	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.07	Thickest layer	0.00
290570					
Valois	80	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.07	Thickest layer	0.00
290576					
Volusia	85	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
290578					
Wellsboro	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
290579					
Wellsboro	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
290581					
Wellsboro	50	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Mardin	30	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
290582					
Wenonah	85	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
290592					
Carlisle	45	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Palms	40	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.03
293892					
Alden, extremely stony	75	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
293895					
Arnot	50	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Lordstown	35	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
293896					
Arnot	60	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Lordstown	30	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
293897					
Arnot	65	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Lordstown	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
293921					
Erie, extremely stony	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
293929					
Hoosic	80	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.03
		Bottom layer	0.00	Bottom layer	0.77
293930					
Hoosic	80	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.03
		Bottom layer	0.00	Bottom layer	0.77
293931					
Hoosic	80	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.03
		Bottom layer	0.00	Bottom layer	0.77
293932					
Lordstown	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
293939					
Middlebury	80	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.86
293943					
Otisville	80	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.07
		Bottom layer	0.00	Bottom layer	0.86

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
293944					
Otisville	80	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.07
		Bottom layer	0.00	Bottom layer	0.86
293945					
Otisville	80	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.07
		Bottom layer	0.00	Bottom layer	0.86
293946					
Otisville	40	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.07
		Bottom layer	0.00	Bottom layer	0.86
Hoosic	40	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.03
		Bottom layer	0.00	Bottom layer	0.77
293949					
Pits, gravel	75	Not rated		Not rated	
293961					
Rock outcrop	50	Not rated		Not rated	
Arnot	35	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
293962					
Rock outcrop	50	Not rated		Not rated	
Arnot	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
293963					
Rock outcrop	60	Not rated		Not rated	
Arnot	30	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
293975					
Suncook	80	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.36
		Thickest layer	0.00	Thickest layer	0.36
293979					
Swartswood, very stony	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Mardin	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
293980					
Swartswood, very stony	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Mardin	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
293981					
Swartswood, very stony	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Mardin	35	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
293983					
Udifluvents, frequently flooded	45	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.77
Fluvaquents	30	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.77
295043					
Alden	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295044					
Arnot	40	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Lordstown	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295045					
Arnot	40	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Lordstown	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295046					
Arnot	45	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Oquaga	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
295047					
Arnot	50	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Oquaga	35	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295048					
Arnot	60	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Rock outcrop	25	Not rated		Not rated	
295049					
Arnot	55	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Rock outcrop	30	Not rated		Not rated	
295050					
Arnot	45	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Rock outcrop	40	Not rated		Not rated	
295051					
Barbour	85	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.07
295052					
Bash	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295053					
Carlisle	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295054					
Carlisle, ponded	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Palms, ponded	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Alden, ponded	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295055					
Chenango	85	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.14

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
295056					
Chenango	85	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.14
295057					
Chenango	85	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.14
295059					
Cheshire, stony	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295060					
Cheshire, stony	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295061					
Cheshire, stony	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295062					
Cheshire, stony	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295063					
Cheshire, stony	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295069					
Fluvaquents	45	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.03
Udifluvents, frequently flooded	40	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.03
295074					
Lackawanna	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295075					
Lackawanna	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295076					
Lackawanna	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
295082					
Lordstown, stony----	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295083					
Lordstown, very stony----------	55	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Arnot, very stony---	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
295092					
Morris----------	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295093					
Morris----------	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295094					
Morris----------	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295095					
Neversink----------	80	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.03
295101					
Oquaga----------	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295102					
Oquaga----------	50	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Arnot----------	35	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
295103					
Oquaga----------	50	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Arnot----------	35	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
295105					
Otisville----------	85	Fair		Fair	
		Bottom layer	0.12	Thickest layer	0.14
		Thickest layer	0.25	Bottom layer	0.86

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
295106					
Otisville	85	Fair		Fair	
		Bottom layer	0.12	Thickest layer	0.14
		Thickest layer	0.25	Bottom layer	0.86
295107					
Otisville	85	Fair		Fair	
		Bottom layer	0.12	Thickest layer	0.14
		Thickest layer	0.25	Bottom layer	0.86
295109					
Palms	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295110					
Philo	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.02
295111					
Pits, gravel	80	Not rated		Not rated	
295112					
Pits, quarry	80	Not rated		Not rated	
295113					
Pompton	85	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.03
		Bottom layer	0.00	Bottom layer	0.86
295114					
Pompton	85	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.03
		Bottom layer	0.00	Bottom layer	0.86
295115					
Pope, occasionally flooded	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295116					
Pope, rarely flooded	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295117					
Raynham, poorly drained	50	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Raynham, somewhat poorly drained	30	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295118					
Red Hook	80	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.06

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
295119					
Riverhead	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.03
		Thickest layer	0.00	Bottom layer	0.07
295120					
Riverhead	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.03
		Thickest layer	0.00	Bottom layer	0.07
295121					
Riverhead	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.03
		Thickest layer	0.00	Bottom layer	0.07
295122					
Scio	80	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
295123					
Scriba, stony	80	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
295124					
Scriba, stony	75	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
295125					
Scriba, extremely stony	40	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Morris, extremely stony	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295126					
Suncook	80	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.07
		Bottom layer	0.00	Bottom layer	0.14
295129					
Swartswood	85	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.03
295130					
Swartswood	85	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.03
295131					
Swartswood	85	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.03

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
295132					
Swartswood, stony---	40	Poor		Poor	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.03
Lackawanna, stony---	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295133					
Swartswood, very stony---	40	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.03
Lackawanna, very stony---	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295134					
Swartswood, very stony---	40	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.03
Lackawanna, very stony---	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295136					
Tuller, somewhat poorly drained-----	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Tuller, poorly drained---	20	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Rock outcrop---	20	Not rated		Not rated	
295137					
Tunkhannock---	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.86
295138					
Tunkhannock---	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.86
295139					
Tunkhannock---	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.86

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
295140					
Tunkhannock	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.86
295141					
Tunkhannock	45	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.86
Otisville	40	Fair		Fair	
		Bottom layer	0.12	Thickest layer	0.14
		Thickest layer	0.25	Bottom layer	0.86
295142					
Tunkhannock	45	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.86
Otisville	40	Fair		Fair	
		Bottom layer	0.12	Thickest layer	0.14
		Thickest layer	0.25	Bottom layer	0.86
295143					
Udorthents	75	Not rated		Not rated	
295144					
Unadilla	85	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
295145					
Unadilla	85	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
295146					
Valois	80	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.03
		Bottom layer	0.00	Thickest layer	0.03
295147					
Valois	80	Poor		Fair	
		Thickest layer	0.00	Bottom layer	0.03
		Bottom layer	0.00	Thickest layer	0.03
295148					
Valois	80	Poor		Fair	
		Thickest layer	0.00	Bottom layer	0.03
		Bottom layer	0.00	Thickest layer	0.03
295149					
Valois	80	Poor		Fair	
		Thickest layer	0.00	Bottom layer	0.03
		Bottom layer	0.00	Thickest layer	0.03
295150					
Valois	80	Poor		Fair	
		Thickest layer	0.00	Bottom layer	0.03
		Bottom layer	0.00	Thickest layer	0.03

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
295153					
Wayland	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295154					
Wellsboro	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295155					
Wellsboro	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295156					
Wellsboro	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295157					
Wellsboro, extremely stony	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Wurtsboro, extremely stony	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295162					
Wurtsboro, stony	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295163					
Wurtsboro, stony	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
295164					
Wurtsboro, stony	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
296588					
Arnot	90	Fair		Poor	
		Thickest layer	0.04	Bottom layer	0.00
		Bottom layer	0.12	Thickest layer	0.00
296589					
Arnot	90	Fair		Poor	
		Thickest layer	0.04	Bottom layer	0.00
		Bottom layer	0.12	Thickest layer	0.00
296590					
Arnot	95	Fair		Poor	
		Thickest layer	0.04	Bottom layer	0.00
		Bottom layer	0.12	Thickest layer	0.00

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
296591					
Barbour	70	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.08
296592					
Basher	87	Poor		Fair	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.02
296593					
Fluvents	70	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.03
		Thickest layer	0.00	Bottom layer	0.04
Fluvaquents	20	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.03
		Thickest layer	0.00	Bottom layer	0.04
296594					
Holly	95	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.03
		Thickest layer	0.00	Bottom layer	0.64
296595					
Linden	85	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.01
		Bottom layer	0.00	Bottom layer	0.10
296596					
Lordstown	94	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
296599					
Lordstown	80	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
296600					
Lordstown	90	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
296601					
Medihemists	60	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Medifibrists	30	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
296602					
Mardin	90	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.01
296603					
Mardin	90	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.01

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
296604					
Mardin	90	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.01
296605					
Mardin	90	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.01
296606					
Mardin	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.01
296608					
Morris	75	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
296609					
Morris	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
296610					
Morris	75	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
296611					
Morris	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
296613					
Norwich	63	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Chippewa	33	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
296614					
Oquaga	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
296615					
Oquaga	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
296616					
Oquaga	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
296617					
Oquaga	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
296618					
Oquaga	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
296619					
Oquaga	45	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Lordstown	20	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
296621					
Quarries	100	Not rated		Not rated	
296622					
Rexford, poorly drained	45	Fair		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.06	Bottom layer	0.04
Rexford, somewhat poorly drained	40	Fair		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.06	Bottom layer	0.04
296623					
Rock outcrop	70	Not rated		Not rated	
Arnot	20	Fair		Poor	
		Thickest layer	0.04	Bottom layer	0.00
		Bottom layer	0.12	Thickest layer	0.00
296625					
Swartswood	90	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.01
		Thickest layer	0.00	Thickest layer	0.03
296628					
Swartswood	90	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.01
		Thickest layer	0.00	Thickest layer	0.03
296630					
Volusia	75	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
296632					
Volusia	75	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
296633					
Volusia	90	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
296634					
Wellsboro	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
296635					
Wellsboro	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
296636					
Wellsboro		Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
296637					
Wellsboro	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
296638					
Wellsboro	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
296639					
Wellsboro	70	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Mardin	20	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.01
296640					
Wyoming	85	Fair		Fair	
		Thickest layer	0.00	Thickest layer	0.03
		Bottom layer	0.06	Bottom layer	0.15
296641					
Wyoming	85	Fair		Fair	
		Thickest layer	0.00	Thickest layer	0.03
		Bottom layer	0.06	Bottom layer	0.15
296642					
Wyoming	85	Fair		Fair	
		Thickest layer	0.00	Thickest layer	0.03
		Bottom layer	0.06	Bottom layer	0.15
296643					
Wyoming	90	Fair		Fair	
		Thickest layer	0.00	Thickest layer	0.03
		Bottom layer	0.06	Bottom layer	0.15
296644					
Water	100	Not rated		Not rated	

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
297185					
Edgemere	42	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.04
Shohola	42	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
297186					
Edgemere	75	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.04
297188					
Manlius	40	Fair		Poor	
		Thickest layer	0.19	Bottom layer	0.00
		Bottom layer	0.31	Thickest layer	0.00
Arnot	35	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.12	Thickest layer	0.00
Rock outcrop	15	Not rated		Not rated	
297189					
Manlius	40	Fair		Poor	
		Thickest layer	0.19	Bottom layer	0.00
		Bottom layer	0.31	Thickest layer	0.00
Arnot	35	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.12	Thickest layer	0.00
Rock outcrop	15	Not rated		Not rated	
297190					
Braceville	82	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.01
		Thickest layer	0.00	Bottom layer	0.08
297191					
Wyalusing	85	Poor		Poor	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.00
297192					
Pope	95	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.04
297193					
Paupack	90	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.02
297194					
Morris	82	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
297196					
Freetown	94	Not rated		Not rated	
297199					
Oquaga	78	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00
297200					
Oquaga	78	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00
297201					
Oquaga	75	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00
297202					
Oquaga	40	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00
Arnot	30	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.12	Thickest layer	0.00
Rock outcrop	20	Not rated		Not rated	
297203					
Delaware	93	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
297204					
Delaware	82	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
297205					
Delaware	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
297207					
Wurtsboro	92	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.02
		Thickest layer	0.00	Thickest layer	0.02
297208					
Wurtsboro	92	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.02
		Thickest layer	0.00	Thickest layer	0.02
297209					
Philo	85	Poor		Fair	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.01

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
297210					
Barbour	85	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.02
		Bottom layer	0.00	Bottom layer	0.69
297211					
Wellsboro	89	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
297212					
Wellsboro	89	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
297213					
Wellsboro	82	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
297215					
Wellsboro	91	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.03
297216					
Wurtsboro	92	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.01
		Thickest layer	0.00	Thickest layer	0.01
297217					
Wurtsboro	88	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
297218					
Wurtsboro	88	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
297221					
Lackawanna	81	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.02
297223					
Lackawanna	75	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.02
297224					
Swartswood	95	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.01
		Thickest layer	0.00	Thickest layer	0.01
297225					
Swartswood	95	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.01
		Thickest layer	0.00	Thickest layer	0.01

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
297226					
Swartswood	90	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.01
		Thickest layer	0.00	Thickest layer	0.01
297227					
Arnot	88	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.12	Thickest layer	0.00
297228					
Arnot	85	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.12	Thickest layer	0.00
297229					
Wyoming	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
297230					
Wyoming	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
297231					
Wyoming	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
297236					
Suncook	91	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.08
		Thickest layer	0.00	Bottom layer	0.89
297239					
Mardin	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
297240					
Mardin	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
297241					
Unadilla	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
297242					
Shohola	62	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Edgemere	29	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.02
		Thickest layer	0.00	Bottom layer	0.04

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
297243					
Shohola	62	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Edgemere	29	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.02
		Thickest layer	0.00	Bottom layer	0.04
297244					
Lordstown	40	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.01
		Bottom layer	0.00	Bottom layer	0.02
Swartswood	35	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.01
		Thickest layer	0.00	Thickest layer	0.01
297245					
Lordstown	40	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.01
		Bottom layer	0.00	Bottom layer	0.02
Swartswood	35	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.01
		Thickest layer	0.00	Thickest layer	0.01
297246					
Lordstown	40	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.01
		Bottom layer	0.00	Bottom layer	0.02
Swartswood	35	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.01
		Thickest layer	0.00	Thickest layer	0.01
297247					
Chenango	86	Fair		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.06	Bottom layer	0.10
297248					
Chenango	85	Fair		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.06	Bottom layer	0.10
297249					
Chenango	90	Fair		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.06	Bottom layer	0.10
297250					
Lordstown	94	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.01
		Bottom layer	0.00	Bottom layer	0.02
297251					
Lordstown	86	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.01
		Bottom layer	0.00	Bottom layer	0.02

Table 11.--Source of Gravel and Sand--Continued

Map unit symbol and soil name	Pct. of map unit	Gravel source		Sand source	
		Rating class	Value	Rating class	Value
297253					
Craigsville	50	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Wyoming	40	Fair		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.06	Bottom layer	0.13
297254					
Pits, shale	40	Not rated		Not rated	
Pits, gravel	40	Not rated		Not rated	
309440					
Edgemere	42	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.04
Shohola	42	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
319863					
Oquaga	40	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00
Arnot	30	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.12	Thickest layer	0.00
Rock outcrop	20	Not rated		Not rated	
319865					
Wellsboro	89	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
741008					
Oquaga	78	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil

[Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.00 to 0.99. The smaller the value, the greater the limitation. See text for further explanation of ratings in this table]

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290457							
Barbour	85	Fair		Good		Poor	
		Low content of organic matter	0.18			Hard to reclaim (rock fragments)	0.00
		Too sandy	0.38			Rock fragments	0.00
		Too acid	0.54			Too sandy	0.38
290461							
Bath	80	Fair		Fair		Poor	
		Droughty	0.11	Wetness	0.22	Rock fragments	0.00
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.00
		Too acid	0.54			Wetness	0.22
290465							
Cadosia	75	Fair		Poor		Poor	
		Low content of organic matter	0.12	Slope	0.00	Rock fragments	0.00
		Too acid	0.54			Slope	0.00
		Stone content	0.95			Hard to reclaim (rock fragments)	0.00
290466							
Cadosia	75	Fair		Poor		Poor	
		Low content of organic matter	0.12	Slope	0.00	Rock fragments	0.00
		Too acid	0.54			Slope	0.00
		Stone content	0.95			Hard to reclaim (rock fragments)	0.00
290468							
Chenango	85	Fair		Good		Poor	
		Too sandy	0.01			Rock fragments	0.00
		Droughty	0.40			Hard to reclaim (rock fragments)	0.00
		Too acid	0.50			Too sandy	0.01
290483							
Fluvaquents	45	Fair		Poor		Poor	
		Low content of organic matter	0.50	Wetness	0.00	Wetness	0.00
		Too acid	0.88			Rock fragments	0.00
						Hard to reclaim (rock fragments)	0.68
Udifluvents	35	Fair		Good		Poor	
		Low content of organic matter	0.12			Rock fragments	0.00
		Too acid	0.88			Hard to reclaim (rock fragments)	0.68
290484							
Halcott	25	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00			Depth to bedrock	0.00
		Too acid	0.50			Too acid	0.88

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290484							
Mongaup	25	Fair		Poor		Poor	
		Droughty	0.11	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.35			Depth to bedrock	0.35
		Too acid	0.50			Too acid	0.59
Vly	25	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50			Depth to bedrock	0.65
		Depth to bedrock	0.65			Too acid	0.88
290485							
Halcott	25	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.00	Depth to bedrock	0.00
		Too acid	0.50			Slope	0.00
Mongaup	25	Fair		Poor		Poor	
		Droughty	0.11	Depth to bedrock	0.00	Slope	0.00
		Depth to bedrock	0.35	Slope	0.00	Rock fragments	0.00
		Too acid	0.50			Depth to bedrock	0.35
Vly	25	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50	Slope	0.00	Slope	0.00
		Depth to bedrock	0.65			Depth to bedrock	0.65
290487							
Lackawanna	80	Fair		Fair		Fair	
		Droughty	0.11	Wetness	0.38	Rock fragments	0.12
		Low content of organic matter	0.12			Wetness	0.38
		Too acid	0.32			Hard to reclaim (rock fragments)	0.50
290488							
Lackawanna	80	Fair		Fair		Fair	
		Droughty	0.11	Wetness	0.38	Rock fragments	0.12
		Low content of organic matter	0.12			Slope	0.37
		Too acid	0.32			Wetness	0.38
290489							
Lackawanna	80	Fair		Fair		Poor	
		Droughty	0.11	Wetness	0.38	Slope	0.00
		Low content of organic matter	0.12	Slope	0.50	Rock fragments	0.12
		Too acid	0.32			Wetness	0.38
290490							
Lackawanna	80	Fair		Poor		Poor	
		Droughty	0.11	Slope	0.00	Slope	0.00
		Low content of organic matter	0.12	Wetness	0.38	Rock fragments	0.12
		Too acid	0.32			Wetness	0.38
290491							
Lackawanna	50	Fair		Fair		Fair	
		Droughty	0.11	Wetness	0.38	Rock fragments	0.12
		Low content of organic matter	0.12			Wetness	0.38
		Too acid	0.32			Hard to reclaim (rock fragments)	0.50

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290491							
Bath	30	Fair		Fair		Poor	
		Droughty	0.11	Wetness	0.22	Rock fragments	0.00
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.00
		Too acid	0.54			Wetness	0.22
290492							
Lackawanna	50	Fair		Poor		Poor	
		Droughty	0.11	Slope	0.00	Slope	0.00
		Low content of organic matter	0.12	Wetness	0.38	Rock fragments	0.12
		Too acid	0.32			Wetness	0.38
Bath	30	Fair		Poor		Poor	
		Droughty	0.11	Slope	0.00	Slope	0.00
		Low content of organic matter	0.50	Wetness	0.22	Rock fragments	0.00
		Too acid	0.54			Hard to reclaim (rock fragments)	0.00
290493							
Lackawanna	50	Fair		Poor		Poor	
		Droughty	0.11	Slope	0.00	Slope	0.00
		Low content of organic matter	0.12	Wetness	0.38	Rock fragments	0.12
		Too acid	0.32			Wetness	0.38
Bath	30	Fair		Poor		Poor	
		Droughty	0.11	Slope	0.00	Slope	0.00
		Low content of organic matter	0.50	Wetness	0.22	Rock fragments	0.00
		Too acid	0.54			Hard to reclaim (rock fragments)	0.00
290506							
Lordstown	80	Fair		Poor		Poor	
		Droughty	0.27	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.54			Depth to bedrock	0.71
		Depth to bedrock	0.71			Too acid	0.98
290507							
Lordstown	80	Fair		Poor		Poor	
		Droughty	0.27	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.54			Slope	0.37
		Depth to bedrock	0.71			Depth to bedrock	0.71
290509							
Lordstown	80	Fair		Poor		Poor	
		Droughty	0.27	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.54	Slope	0.00	Slope	0.00
		Depth to bedrock	0.71			Depth to bedrock	0.71
290510							
Maplecrest	80	Fair		Good		Poor	
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.00
		Too acid	0.54			Rock fragments	0.00

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290511							
Maplecrest	80	Fair		Good		Poor	
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.00
		Too acid	0.54			Rock fragments	0.00
						Slope	0.37
290512							
Maplecrest	80	Fair		Fair		Poor	
		Low content of organic matter	0.50	Slope	0.50	Slope	0.00
		Too acid	0.54			Hard to reclaim (rock fragments)	0.00
						Rock fragments	0.00
290514							
Mardin	80	Fair		Fair		Poor	
		Droughty	0.05	Wetness	0.06	Rock fragments	0.00
		Too acid	0.20			Hard to reclaim (rock fragments)	0.00
		Low content of organic matter	0.50			Wetness	0.06
290515							
Mardin	80	Fair		Fair		Poor	
		Droughty	0.05	Wetness	0.06	Rock fragments	0.00
		Too acid	0.20			Hard to reclaim (rock fragments)	0.00
		Low content of organic matter	0.50			Wetness	0.06
290519							
Mongaup	80	Fair		Poor		Poor	
		Droughty	0.11	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.35			Depth to bedrock	0.35
		Too acid	0.50			Too acid	0.59
290522							
Morris	85	Poor		Poor		Poor	
		Droughty	0.00	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.12			Rock fragments	0.12
		Too acid	0.54			Hard to reclaim (rock fragments)	0.50
290523							
Morris	85	Poor		Poor		Poor	
		Droughty	0.00	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.12			Rock fragments	0.12
		Too acid	0.54			Hard to reclaim (rock fragments)	0.50
290525							
Morris	50	Poor		Poor		Poor	
		Droughty	0.00	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.12			Rock fragments	0.12
		Too acid	0.54			Hard to reclaim (rock fragments)	0.50
Volusia	30	Poor		Poor		Poor	
		Droughty	0.00	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50			Rock fragments	0.00
		Too acid	0.68			Hard to reclaim (rock fragments)	0.08

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290526							
Norchip	80	Poor		Poor		Poor	
		Droughty	0.00	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50			Rock fragments	0.00
		Too acid	0.68			Hard to reclaim (rock fragments)	0.00
290535							
Oquaga	80	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.10			Depth to bedrock	0.10
		Too acid	0.50			Too acid	0.76
290536							
Oquaga	80	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.10			Depth to bedrock	0.10
		Too acid	0.50			Slope	0.37
290539							
Oquaga	80	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.10	Slope	0.00	Slope	0.00
		Too acid	0.50			Depth to bedrock	0.10
290540							
Oquaga	25	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.10			Depth to bedrock	0.10
		Too acid	0.50			Too acid	0.76
Lordstown	25	Fair		Poor		Poor	
		Droughty	0.27	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.54			Depth to bedrock	0.71
		Depth to bedrock	0.71			Slope	0.96
Arnot	25	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00			Depth to bedrock	0.00
		Too acid	0.50			Too acid	0.76
290541							
Oquaga	25	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.10	Slope	0.00	Slope	0.00
		Too acid	0.50			Depth to bedrock	0.10
Lordstown	25	Fair		Poor		Poor	
		Droughty	0.27	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.54	Slope	0.00	Slope	0.00
		Depth to bedrock	0.71			Depth to bedrock	0.71
Arnot	25	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.00	Depth to bedrock	0.00
		Too acid	0.50			Slope	0.00

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290542							
Oquaga	25	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.10	Slope	0.00	Slope	0.00
		Too acid	0.50			Depth to bedrock	0.10
Lordstown	25	Fair		Poor		Poor	
		Droughty	0.27	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.54	Slope	0.00	Slope	0.00
		Depth to bedrock	0.71			Depth to bedrock	0.71
Arnot	25	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.00	Depth to bedrock	0.00
		Too acid	0.50			Slope	0.00
290544							
Pits, gravel	85	Not rated		Good		Not rated	
290546							
Raypol	80	Fair		Poor		Poor	
		Too acid	0.32	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.00
		Water erosion	0.68			Too acid	0.88
290547							
Red Hook	80	Fair		Poor		Poor	
		Low content of organic matter	0.50	Wetness	0.00	Wetness	0.00
		Too acid	0.84			Hard to reclaim (rock fragments)	0.00
						Rock fragments	0.12
290548							
Riverhead	85	Fair		Good		Fair	
		Too acid	0.50			Too acid	0.76
		Low content of organic matter	0.50				
		Droughty	0.67				
290549							
Riverhead	85	Fair		Good		Fair	
		Too acid	0.50			Too acid	0.76
		Low content of organic matter	0.50				
		Droughty	0.67				
290555							
Torull	40	Poor		Poor		Poor	
		Depth to bedrock	0.00	Depth to bedrock	0.00	Wetness	0.00
		Droughty	0.00	Wetness	0.00	Depth to bedrock	0.00
		Too acid	0.50			Rock fragments	0.12
Gretor	40	Fair		Poor		Poor	
		Droughty	0.07	Depth to bedrock	0.00	Wetness	0.00
		Depth to bedrock	0.21	Wetness	0.00	Rock fragments	0.00
		Low content of organic matter	0.50			Depth to bedrock	0.21

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290556							
Tunkhannock	85	Fair		Good		Poor	
		Too sandy	0.01			Hard to reclaim (rock fragments)	0.00
		Low content of organic matter	0.12			Rock fragments	0.00
		Too acid	0.50			Too sandy	0.01
290562							
Tunkhannock	50	Fair		Good		Poor	
		Too sandy	0.01			Hard to reclaim (rock fragments)	0.00
		Low content of organic matter	0.12			Rock fragments	0.00
		Too acid	0.50			Too sandy	0.01
Chenango	30	Fair		Good		Poor	
		Too sandy	0.01			Rock fragments	0.00
		Droughty	0.40			Hard to reclaim (rock fragments)	0.00
		Too acid	0.50			Too sandy	0.01
290563							
Udorthents	80	Not rated		Not rated		Poor	
						Rock fragments	0.00
						Hard to reclaim (rock fragments)	0.68
290565							
Unadilla	80	Fair		Good		Fair	
		Water erosion	0.06			Too acid	0.98
		Low content of organic matter	0.12				
		Too acid	0.54				
290567							
Valois	80	Fair		Good		Poor	
		Too acid	0.50			Hard to reclaim (rock fragments)	0.00
		Low content of organic matter	0.50			Rock fragments	0.12
						Too acid	0.76
290568							
Valois	80	Fair		Good		Poor	
		Too acid	0.50			Hard to reclaim (rock fragments)	0.00
		Low content of organic matter	0.50			Rock fragments	0.12
						Slope	0.37
290569							
Valois	80	Fair		Fair		Poor	
		Too acid	0.50	Slope	0.50	Slope	0.00
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.00
						Rock fragments	0.12
290570							
Valois	80	Fair		Poor		Poor	
		Too acid	0.50	Slope	0.00	Slope	0.00
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.00
						Rock fragments	0.12

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290576							
Volusia	85	Poor		Poor		Poor	
		Droughty	0.00	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50			Rock fragments	0.00
		Too acid	0.68			Hard to reclaim (rock fragments)	0.08
290578							
Wellsboro	80	Poor		Fair		Poor	
		Droughty	0.00	Wetness	0.04	Rock fragments	0.00
		Low content of organic matter	0.12			Wetness	0.04
		Too acid	0.54			Hard to reclaim (rock fragments)	0.68
290579							
Wellsboro	80	Poor		Fair		Poor	
		Droughty	0.00	Wetness	0.04	Rock fragments	0.00
		Low content of organic matter	0.12			Wetness	0.04
		Too acid	0.54			Slope	0.37
290581							
Wellsboro	50	Poor		Fair		Poor	
		Droughty	0.00	Wetness	0.04	Rock fragments	0.00
		Low content of organic matter	0.12			Wetness	0.04
		Too acid	0.54			Hard to reclaim (rock fragments)	0.68
Mardin	30	Fair		Fair		Poor	
		Droughty	0.05	Wetness	0.06	Rock fragments	0.00
		Too acid	0.20			Hard to reclaim (rock fragments)	0.00
		Low content of organic matter	0.50			Wetness	0.06
290582							
Wenonah	85	Fair		Good		Fair	
		Too acid	0.54			Too acid	0.98
		Water erosion	0.99				
290592							
Carlisle	45	Poor		Poor		Poor	
		Wind erosion	0.00	Wetness	0.00	Wetness	0.00
		Too acid	0.88			Organic matter content high	0.00
Palms	40	Poor		Poor		Not rated	
		Wind erosion	0.00	Wetness	0.00		
		Too acid	0.97				
		Water erosion	0.99				
293892							
Alden, extremely stony	75	Fair		Poor		Poor	
		Too acid	0.97	Wetness	0.00	Wetness	0.00
		Water erosion	0.99			Rock fragments	0.88
						Hard to reclaim (rock fragments)	0.92

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293895							
Arnot	50	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00			Depth to bedrock	0.00
		Too acid	0.50			Slope	0.37
Lordstown	35	Fair		Poor		Poor	
		Low content of organic matter	0.50	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.54			Slope	0.37
		Droughty	0.86			Depth to bedrock	0.97
293896							
Arnot	60	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.50	Depth to bedrock	0.00
		Too acid	0.50			Slope	0.00
Lordstown	30	Fair		Poor		Poor	
		Low content of organic matter	0.50	Depth to bedrock	0.00	Slope	0.00
				Slope	0.50	Rock fragments	0.00
		Too acid	0.54			Depth to bedrock	0.90
		Droughty	0.77				
293897							
Arnot	65	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.00	Depth to bedrock	0.00
		Too acid	0.50			Slope	0.00
Lordstown	25	Fair		Poor		Poor	
		Too acid	0.54	Depth to bedrock	0.00	Slope	0.00
		Droughty	0.72	Slope	0.00	Rock fragments	0.12
		Depth to bedrock	0.84			Depth to bedrock	0.84
293921							
Erie, extremely stony	80	Fair		Poor		Poor	
		Droughty	0.05	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50			Rock fragments	0.00
						Hard to reclaim (rock fragments)	0.92
		Too acid	0.54				
293929							
Hoosic	80	Fair		Good		Poor	
		Droughty	0.02			Hard to reclaim (rock fragments)	0.00
		Low content of organic matter	0.12			Rock fragments	0.00
		Too acid	0.50			Too acid	0.88
293930							
Hoosic	80	Fair		Good		Poor	
		Droughty	0.01			Hard to reclaim (rock fragments)	0.00
		Low content of organic matter	0.12			Rock fragments	0.00
		Too acid	0.50			Slope	0.37

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293931							
Hoosic	80	Poor		Fair		Poor	
		Droughty	0.00	Slope	0.50	Hard to reclaim (rock fragments)	0.00
		Too acid	0.50			Slope	0.00
		Low content of organic matter	0.50			Rock fragments	0.00
293932							
Lordstown	80	Fair		Poor		Poor	
		Low content of organic matter	0.50	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.54			Depth to bedrock	0.99
		Droughty	0.90				
293939							
Middlebury	80	Fair		Fair		Fair	
		Too acid	0.84	Wetness	0.04	Wetness	0.04
		Water erosion	0.99			Hard to reclaim (rock fragments)	0.68
293943							
Otisville	80	Poor		Good		Poor	
		Droughty	0.00			Hard to reclaim (rock fragments)	0.00
		Low content of organic matter	0.12			Rock fragments	0.00
		Too sandy	0.38			Too sandy	0.38
293944							
Otisville	80	Poor		Good		Poor	
		Droughty	0.00			Hard to reclaim (rock fragments)	0.00
		Low content of organic matter	0.12			Rock fragments	0.00
		Too sandy	0.38			Slope	0.37
293945							
Otisville	80	Poor		Fair		Poor	
		Droughty	0.00	Slope	0.50	Hard to reclaim (rock fragments)	0.00
		Low content of organic matter	0.12			Rock fragments	0.00
		Too sandy	0.38			Slope	0.00
293946							
Otisville	40	Poor		Poor		Poor	
		Droughty	0.00	Slope	0.00	Hard to reclaim (rock fragments)	0.00
		Too sandy	0.00			Rock fragments	0.00
		Low content of organic matter	0.12			Slope	0.00
Hoosic	40	Poor		Poor		Poor	
		Droughty	0.00	Slope	0.00	Hard to reclaim (rock fragments)	0.00
		Low content of organic matter	0.12			Slope	0.00
		Too acid	0.50			Rock fragments	0.00
293949							
Pits, gravel	75	Not rated		Not rated		Not rated	
293961							
Rock outcrop	50	Not rated		Not rated		Not rated	

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293961							
Arnot	35	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00			Depth to bedrock	0.00
		Too acid	0.50			Slope	0.37
293962							
Rock outcrop	50	Not rated		Not rated		Not rated	
Arnot	40	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.50	Depth to bedrock	0.00
		Too acid	0.50			Slope	0.00
293963							
Rock outcrop	60	Not rated		Not rated		Not rated	
Arnot	30	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.00	Depth to bedrock	0.00
		Too acid	0.50			Slope	0.00
293975							
Suncook	80	Poor		Good		Poor	
		Too sandy	0.00			Too sandy	0.00
		Droughty	0.38				
		Low content of organic matter	0.50				
293979							
Swartswood, very stony	40	Fair		Fair		Poor	
		Droughty	0.01	Wetness	0.76	Rock fragments	0.00
		Too acid	0.50			Slope	0.37
		Low content of organic matter	0.50			Too acid	0.59
Mardin	40	Poor		Fair		Poor	
		Droughty	0.00	Wetness	0.32	Rock fragments	0.00
		Low content of organic matter	0.50			Wetness	0.32
		Too acid	0.50			Hard to reclaim (rock fragments)	0.32
293980							
Swartswood, very stony	40	Poor		Poor		Poor	
		Droughty	0.00	Slope	0.00	Slope	0.00
		Too acid	0.50	Wetness	0.76	Rock fragments	0.00
		Low content of organic matter	0.50			Too acid	0.59
Mardin	40	Poor		Poor		Poor	
		Droughty	0.00	Slope	0.00	Rock fragments	0.00
		Low content of organic matter	0.50	Wetness	0.32	Slope	0.00
		Too acid	0.50			Wetness	0.32

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293981							
Swartswood, very stony	40	Poor		Poor		Poor	
		Droughty	0.00	Slope	0.00	Slope	0.00
		Too acid	0.50	Wetness	0.76	Rock fragments	0.00
		Low content of organic matter	0.50			Too acid	0.59
Mardin	35	Poor		Poor		Poor	
		Droughty	0.00	Slope	0.00	Rock fragments	0.00
		Low content of organic matter	0.50	Wetness	0.32	Slope	0.00
		Too acid	0.50			Wetness	0.32
293983							
Udifluvents, frequently flooded	45	Poor		Good		Poor	
		Too sandy	0.00			Rock fragments	0.00
		Low content of organic matter	0.50			Too sandy	0.00
		Too acid	0.88			Hard to reclaim (rock fragments)	0.68
Fluvaquents	30	Poor		Poor		Poor	
		Too sandy	0.00	Wetness	0.00	Wetness	0.00
		Too acid	0.88			Rock fragments	0.00
						Too sandy	0.00
295043							
Alden	80	Fair		Poor		Poor	
		Low content of organic matter	0.50	Wetness	0.00	Wetness	0.00
		Too acid	0.97				
		Water erosion	0.99				
295044							
Arnot	40	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00			Depth to bedrock	0.00
		Too acid	0.50			Too acid	0.95
Lordstown	40	Fair		Poor		Poor	
		Droughty	0.31	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.35			Depth to bedrock	0.35
		Too acid	0.50			Too acid	0.98
295045							
Arnot	40	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.00	Depth to bedrock	0.00
		Too acid	0.50			Slope	0.00
Lordstown	40	Fair		Poor		Poor	
		Droughty	0.31	Depth to bedrock	0.00	Slope	0.00
		Depth to bedrock	0.35	Slope	0.00	Rock fragments	0.00
		Too acid	0.50			Depth to bedrock	0.35
295046							
Arnot	45	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00			Depth to bedrock	0.00
		Too acid	0.50			Too acid	0.95

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295046							
Oquaga	40	Fair		Poor		Poor	
		Droughty	0.05	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50			Too acid	0.76
		Low content of organic matter	0.88			Depth to bedrock	0.93
295047							
Arnot	50	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.00	Depth to bedrock	0.00
		Too acid	0.50			Slope	0.00
Oquaga	35	Fair		Poor		Poor	
		Droughty	0.05	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50	Slope	0.00	Slope	0.00
		Low content of organic matter	0.88			Too acid	0.76
295048							
Arnot	60	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00			Depth to bedrock	0.00
		Too acid	0.50			Too acid	0.95
Rock outcrop	25	Not rated		Not rated		Not rated	
295049							
Arnot	55	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.00	Depth to bedrock	0.00
		Too acid	0.50			Slope	0.00
Rock outcrop	30	Not rated		Not rated		Not rated	
295050							
Arnot	45	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.00	Depth to bedrock	0.00
		Too acid	0.50			Slope	0.00
Rock outcrop	40	Not rated		Not rated		Not rated	
295051							
Barbour	85	Fair		Good		Poor	
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.00
		Too acid	0.54			Too acid	0.98
295052							
Bash	85	Fair		Poor		Poor	
		Too acid	0.12	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50			Too acid	0.98
		Water erosion	0.99				
295053							
Carlisle	85	Not rated		Poor		Not rated	
				Wetness	0.00		

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295054							
Carlisle, ponded	25	Not rated		Poor		Not rated	
				Wetness	0.00		
Palms, ponded	25	Poor		Poor		Poor	
		Wind erosion	0.00	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50				
		Water erosion	0.99				
Alden, ponded	25	Fair		Poor		Poor	
		Low content of organic matter	0.50	Wetness	0.00	Wetness	0.00
		Too acid	0.97				
		Water erosion	0.99				
295055							
Chenango	85	Fair		Good		Poor	
		Low content of organic matter	0.12			Rock fragments	0.00
		Droughty	0.43			Hard to reclaim (rock fragments)	0.00
		Too acid	0.54			Too acid	0.98
295056							
Chenango	85	Fair		Good		Poor	
		Low content of organic matter	0.12			Rock fragments	0.00
		Droughty	0.43			Hard to reclaim (rock fragments)	0.00
		Too acid	0.54			Too acid	0.98
295057							
Chenango	85	Fair		Good		Poor	
		Low content of organic matter	0.12			Rock fragments	0.00
		Droughty	0.43			Hard to reclaim (rock fragments)	0.00
		Too acid	0.54			Slope	0.37
295059							
Cheshire, stony	85	Fair		Good		Poor	
		Too acid	0.54			Rock fragments	0.00
						Hard to reclaim (rock fragments)	0.68
						Too acid	0.98
295060							
Cheshire, stony	85	Fair		Good		Poor	
		Too acid	0.54			Rock fragments	0.00
						Slope	0.37
						Hard to reclaim (rock fragments)	0.68
295061							
Cheshire, stony	85	Fair		Fair		Poor	
		Too acid	0.54	Slope	0.50	Slope	0.00
						Rock fragments	0.00
						Hard to reclaim (rock fragments)	0.68

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295062							
Cheshire, stony-----	85	Fair		Poor		Poor	
		Too acid	0.54	Slope	0.00	Slope	0.00
						Rock fragments	0.00
						Hard to reclaim (rock fragments)	0.68
295063							
Cheshire, stony-----	85	Fair		Poor		Poor	
		Too acid	0.54	Slope	0.00	Slope	0.00
						Rock fragments	0.00
						Hard to reclaim (rock fragments)	0.68
295069							
Fluvaquents----------	45	Fair		Poor		Poor	
		Too acid	0.88	Wetness	0.00	Wetness	0.00
						Rock fragments	0.00
						Hard to reclaim (rock fragments)	0.68
Udifluvents, frequently flooded-	40	Fair		Good		Poor	
		Low content of organic matter	0.50			Rock fragments	0.00
		Too acid	0.88			Hard to reclaim (rock fragments)	0.68
295074							
Lackawanna----------	80	Fair		Fair		Poor	
		Too acid	0.50	Wetness	0.62	Rock fragments	0.00
						Wetness	0.62
						Too acid	0.88
295075							
Lackawanna----------	85	Fair		Fair		Poor	
		Too acid	0.50	Wetness	0.62	Rock fragments	0.00
						Slope	0.37
						Wetness	0.62
295076							
Lackawanna----------	85	Fair		Fair		Poor	
		Too acid	0.50	Slope	0.50	Slope	0.00
				Wetness	0.62	Rock fragments	0.00
						Wetness	0.62
295082							
Lordstown, stony----	85	Fair		Poor		Poor	
		Droughty	0.31	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.35			Depth to bedrock	0.35
		Too acid	0.50			Too acid	0.98
295083							
Lordstown, very stony----------	55	Fair		Poor		Poor	
		Droughty	0.31	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.35			Depth to bedrock	0.35
		Too acid	0.50			Slope	0.37

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295083							
Arnot, very stony---	25	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00			Depth to bedrock	0.00
		Too acid	0.50			Slope	0.37
295092							
Morris----------	85	Fair		Poor		Poor	
		Low content of organic matter	0.50	Wetness	0.00	Wetness	0.00
		Too acid	0.54			Rock fragments	0.00
		Droughty	0.98			Hard to reclaim (rock fragments)	0.92
295093							
Morris----------	85	Fair		Poor		Poor	
		Low content of organic matter	0.50	Wetness	0.00	Wetness	0.00
		Too acid	0.54			Rock fragments	0.00
		Droughty	0.98			Hard to reclaim (rock fragments)	0.92
295094							
Morris----------	85	Fair		Poor		Poor	
		Low content of organic matter	0.50	Wetness	0.00	Wetness	0.00
		Too acid	0.54			Rock fragments	0.00
		Droughty	0.98			Slope	0.84
295095							
Neversink----------	80	Fair		Poor		Poor	
		Droughty	0.33	Wetness	0.00	Wetness	0.00
		Too acid	0.50			Rock fragments	0.00
		Low content of organic matter	0.50			Too acid	0.59
295101							
Oquaga----------	85	Fair		Poor		Poor	
		Droughty	0.05	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50			Too acid	0.76
		Low content of organic matter	0.88			Depth to bedrock	0.93
295102							
Oquaga----------	50	Fair		Poor		Poor	
		Droughty	0.05	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50			Slope	0.37
		Low content of organic matter	0.88			Too acid	0.76
Arnot----------	35	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00			Depth to bedrock	0.00
		Too acid	0.50			Slope	0.37
295103							
Oquaga----------	50	Fair		Poor		Poor	
		Droughty	0.05	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50	Slope	0.50	Slope	0.00
		Low content of organic matter	0.88			Too acid	0.76

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295103							
Arnot	35	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.50	Depth to bedrock	0.00
		Too acid	0.50			Slope	0.00
295105							
Otisville	85	Poor		Good		Poor	
		Droughty	0.00			Hard to reclaim (rock fragments)	0.00
		Too sandy	0.01			Rock fragments	0.00
		Low content of organic matter	0.12			Too sandy	0.01
295106							
Otisville	85	Poor		Good		Poor	
		Droughty	0.00			Hard to reclaim (rock fragments)	0.00
		Too sandy	0.01			Rock fragments	0.00
		Low content of organic matter	0.12			Too sandy	0.01
295107							
Otisville	85	Poor		Good		Poor	
		Droughty	0.00			Hard to reclaim (rock fragments)	0.00
		Too sandy	0.01			Rock fragments	0.00
		Low content of organic matter	0.12			Too sandy	0.01
295109							
Palms	85	Poor		Poor		Poor	
		Wind erosion	0.00	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50			Rock fragments	0.88
		Water erosion	0.99				
295110							
Philo	85	Fair		Fair		Fair	
		Too acid	0.54	Wetness	0.14	Wetness	0.14
		Water erosion	0.99			Too acid	0.98
295111							
Pits, gravel	80	Not rated		Not rated		Not rated	
295112							
Pits, quarry	80	Not rated		Not rated		Not rated	
295113							
Pompton	85	Fair		Fair		Fair	
		Too acid	0.50	Wetness	0.04	Wetness	0.04
		Low content of organic matter	0.50			Rock fragments	0.12
						Too acid	0.88
295114							
Pompton	85	Fair		Fair		Fair	
		Too acid	0.50	Wetness	0.04	Wetness	0.04
		Low content of organic matter	0.50			Rock fragments	0.12
						Too acid	0.88

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295115							
Pope, occasionally flooded	85	Fair		Good		Fair	
		Too acid	0.50			Too acid	0.59
		Water erosion	0.99				
295116							
Pope, rarely flooded	85	Fair		Good		Fair	
		Too acid	0.50			Too acid	0.59
		Low content of organic matter	0.50				
		Water erosion	0.99				
295117							
Raynham, poorly drained	50	Fair		Poor		Poor	
		Water erosion	0.06	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50				
		Too acid	0.97				
Raynham, somewhat poorly drained	30	Fair		Poor		Poor	
		Water erosion	0.06	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50				
		Too acid	0.97				
295118							
Red Hook	80	Fair		Poor		Poor	
		Too acid	0.50	Wetness	0.00	Wetness	0.00
						Hard to reclaim (rock fragments)	0.00
						Rock fragments	0.88
295119							
Riverhead	85	Fair		Good		Poor	
		Low content of organic matter	0.12			Hard to reclaim (rock fragments)	0.00
		Droughty	0.45			Too acid	0.76
		Too acid	0.50			Rock fragments	0.88
295120							
Riverhead	85	Fair		Good		Poor	
		Low content of organic matter	0.12			Hard to reclaim (rock fragments)	0.00
		Droughty	0.45			Too acid	0.76
		Too acid	0.50			Rock fragments	0.88
295121							
Riverhead	85	Fair		Good		Poor	
		Low content of organic matter	0.12			Hard to reclaim (rock fragments)	0.00
		Droughty	0.45			Slope	0.37
		Too acid	0.50			Too acid	0.76

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295122							
Scio	80	Fair		Fair		Fair	
		Low content of organic matter	0.50	Wetness	0.14	Wetness	0.14
		Too acid	0.54			Too acid	0.98
		Water erosion	0.68				
295123							
Scriba, stony	80	Poor		Poor		Poor	
		Droughty	0.00	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50			Rock fragments	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.32
295124							
Scriba, stony	75	Poor		Poor		Poor	
		Droughty	0.00	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50			Rock fragments	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.32
295125							
Scriba, extremely stony	40	Poor		Poor		Poor	
		Droughty	0.00	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50			Rock fragments	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.32
Morris, extremely stony	40	Fair		Poor		Poor	
		Low content of organic matter	0.50	Wetness	0.00	Wetness	0.00
		Too acid	0.54			Rock fragments	0.00
		Droughty	0.98			Hard to reclaim (rock fragments)	0.92
295126							
Suncook	80	Fair		Good		Poor	
		Too sandy	0.38			Hard to reclaim (rock fragments)	0.00
		Low content of organic matter	0.50			Too sandy	0.38
		Droughty	0.60				
295129							
Swartswood	85	Poor		Fair		Poor	
		Droughty	0.00	Wetness	0.38	Rock fragments	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.32
		Low content of organic matter	0.50			Wetness	0.38
295130							
Swartswood	85	Poor		Fair		Poor	
		Droughty	0.00	Wetness	0.38	Rock fragments	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.32
		Low content of organic matter	0.50			Slope	0.37

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295131							
Swartswood	85	Poor		Fair		Poor	
		Droughty	0.00	Wetness	0.38	Slope	0.00
		Too acid	0.50	Slope	0.50	Rock fragments	0.00
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.32
295132							
Swartswood, stony	40	Fair		Poor		Poor	
		Droughty	0.03	Slope	0.00	Slope	0.00
		Too acid	0.50	Wetness	0.38	Rock fragments	0.00
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.32
Lackawanna, stony	40	Fair		Poor		Poor	
		Too acid	0.50	Slope	0.00	Slope	0.00
				Wetness	0.62	Rock fragments	0.00
						Wetness	0.62
295133							
Swartswood, very stony	40	Fair		Poor		Poor	
		Droughty	0.03	Slope	0.00	Slope	0.00
		Too acid	0.50	Wetness	0.38	Rock fragments	0.00
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.32
Lackawanna, very stony	40	Fair		Poor		Poor	
		Too acid	0.50	Slope	0.00	Slope	0.00
				Wetness	0.62	Rock fragments	0.00
						Wetness	0.62
295134							
Swartswood, very stony	40	Fair		Poor		Poor	
		Droughty	0.03	Slope	0.00	Slope	0.00
		Too acid	0.50	Wetness	0.38	Rock fragments	0.00
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.32
Lackawanna, very stony	40	Fair		Poor		Poor	
		Too acid	0.50	Slope	0.00	Slope	0.00
				Wetness	0.62	Rock fragments	0.00
						Wetness	0.62
295136							
Tuller, somewhat poorly drained	40	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Wetness	0.00
		Depth to bedrock	0.00	Wetness	0.00	Depth to bedrock	0.00
		Too acid	0.50			Rock fragments	0.88
Tuller, poorly drained	20	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Wetness	0.00
		Depth to bedrock	0.00	Wetness	0.00	Depth to bedrock	0.00
		Too acid	0.50			Rock fragments	0.88

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295136							
Rock outcrop	20	Not rated		Not rated		Not rated	
295137							
Tunkhannock	85	Fair		Good		Poor	
		Too acid	0.50			Hard to reclaim (rock fragments)	0.00
		Droughty	0.82			Rock fragments	0.00
		Low content of organic matter	0.88			Too acid	0.76
295138							
Tunkhannock	85	Fair		Good		Poor	
		Too acid	0.50			Hard to reclaim (rock fragments)	0.00
		Droughty	0.82			Rock fragments	0.00
		Low content of organic matter	0.88			Too acid	0.76
295139							
Tunkhannock	85	Fair		Good		Poor	
		Too acid	0.50			Hard to reclaim (rock fragments)	0.00
		Droughty	0.82			Rock fragments	0.00
		Low content of organic matter	0.88			Slope	0.37
295140							
Tunkhannock	85	Fair		Fair		Poor	
		Too acid	0.50	Slope	0.50	Hard to reclaim (rock fragments)	0.00
		Droughty	0.82			Slope	0.00
		Low content of organic matter	0.88			Rock fragments	0.00
295141							
Tunkhannock	45	Fair		Poor		Poor	
		Too acid	0.50	Slope	0.00	Hard to reclaim (rock fragments)	0.00
		Droughty	0.82			Slope	0.00
		Low content of organic matter	0.88			Rock fragments	0.00
Otisville	40	Poor		Poor		Poor	
		Droughty	0.00	Slope	0.00	Hard to reclaim (rock fragments)	0.00
		Too sandy	0.01			Rock fragments	0.00
		Low content of organic matter	0.12			Slope	0.00
295142							
Tunkhannock	45	Fair		Poor		Poor	
		Too acid	0.50	Slope	0.00	Hard to reclaim (rock fragments)	0.00
		Droughty	0.82			Slope	0.00
		Low content of organic matter	0.88			Rock fragments	0.00
Otisville	40	Poor		Poor		Poor	
		Droughty	0.00	Slope	0.00	Hard to reclaim (rock fragments)	0.00
		Too sandy	0.01			Rock fragments	0.00
		Low content of organic matter	0.12			Slope	0.00
295143							
Udorthents	75	Not rated		Not rated		Not rated	

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295144							
Unadilla	85	Fair		Good		Fair	
		Water erosion	0.06			Too acid	0.98
		Too acid	0.54				
295145							
Unadilla	85	Fair		Good		Fair	
		Water erosion	0.06			Too acid	0.98
		Too acid	0.54				
295146							
Valois	80	Fair		Good		Poor	
		Too acid	0.50			Rock fragments	0.00
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.32
		Droughty	0.99			Too acid	0.76
295147							
Valois	80	Fair		Good		Poor	
		Too acid	0.50			Rock fragments	0.00
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.32
		Droughty	0.99			Slope	0.37
295148							
Valois	80	Fair		Fair		Poor	
		Too acid	0.50	Slope	0.50	Slope	0.00
		Low content of organic matter	0.50			Rock fragments	0.00
		Droughty	0.99			Hard to reclaim (rock fragments)	0.32
295149							
Valois	80	Fair		Poor		Poor	
		Too acid	0.50	Slope	0.00	Slope	0.00
		Low content of organic matter	0.50			Rock fragments	0.00
		Droughty	0.99			Hard to reclaim (rock fragments)	0.32
295150							
Valois	80	Fair		Poor		Poor	
		Too acid	0.50	Slope	0.00	Slope	0.00
		Low content of organic matter	0.50			Rock fragments	0.00
		Droughty	0.99			Hard to reclaim (rock fragments)	0.32
295153							
Wayland	85	Fair		Poor		Poor	
		Water erosion	0.90	Wetness	0.00	Wetness	0.00
295154							
Wellsboro	85	Poor		Fair		Poor	
		Droughty	0.00	Wetness	0.18	Rock fragments	0.00
		Low content of organic matter	0.50			Wetness	0.18
		Too acid	0.54			Hard to reclaim (rock fragments)	0.68

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295155							
Wellsboro	85	Poor		Fair		Poor	
		Droughty	0.00	Wetness	0.18	Rock fragments	0.00
		Low content of organic matter	0.50			Wetness	0.18
		Too acid	0.54			Hard to reclaim (rock fragments)	0.68
295156							
Wellsboro	85	Poor		Fair		Poor	
		Droughty	0.00	Wetness	0.18	Rock fragments	0.00
		Low content of organic matter	0.50			Wetness	0.18
		Too acid	0.54			Slope	0.37
295157							
Wellsboro, extremely stony	40	Poor		Fair		Poor	
		Droughty	0.00	Wetness	0.18	Rock fragments	0.00
		Low content of organic matter	0.50			Wetness	0.18
		Too acid	0.54			Hard to reclaim (rock fragments)	0.68
Wurtsboro, extremely stony	40	Fair		Fair		Fair	
		Droughty	0.17	Wetness	0.07	Wetness	0.07
		Too acid	0.50			Too acid	0.59
		Low content of organic matter	0.50			Rock fragments	0.88
295162							
Wurtsboro, stony	85	Fair		Fair		Fair	
		Droughty	0.17	Wetness	0.07	Wetness	0.07
		Too acid	0.50			Too acid	0.59
		Low content of organic matter	0.50			Rock fragments	0.88
295163							
Wurtsboro, stony	85	Fair		Fair		Fair	
		Droughty	0.17	Wetness	0.07	Wetness	0.07
		Too acid	0.50			Too acid	0.59
		Low content of organic matter	0.50			Rock fragments	0.88
295164							
Wurtsboro, stony	85	Fair		Fair		Fair	
		Droughty	0.17	Wetness	0.07	Wetness	0.07
		Too acid	0.50			Slope	0.37
		Low content of organic matter	0.50			Too acid	0.59
296588							
Arnot	90	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00			Depth to bedrock	0.00
		Too acid	0.50			Too acid	0.76
296589							
Arnot	90	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00			Depth to bedrock	0.00
		Too acid	0.50			Slope	0.37

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296590							
Arnot	95	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.50	Depth to bedrock	0.00
		Too acid	0.50			Slope	0.00
296591							
Barbour	70	Fair		Good		Fair	
		Low content of organic matter	0.12			Rock fragments	0.12
		Too acid	0.54			Hard to reclaim (rock fragments)	0.50
						Too acid	0.98
296592							
Basher	87	Fair		Fair		Fair	
		Low content of organic matter	0.12	Wetness	0.32	Wetness	0.32
		Too acid	0.20			Too acid	0.76
		Too sandy	0.98			Rock fragments	0.88
296593							
Fluvents	70	Fair		Good		Fair	
		Low content of organic matter	0.08			Rock fragments	0.28
		Too acid	0.61			Hard to reclaim (rock fragments)	0.88
		Water erosion	0.90				
Fluvaquents	20	Fair		Poor		Poor	
		Low content of organic matter	0.08	Wetness	0.00	Wetness	0.00
		Too acid	0.68			Rock fragments	0.50
		Water erosion	0.90			Hard to reclaim (rock fragments)	0.88
296594							
Holly	95	Fair		Poor		Poor	
		Low content of organic matter	0.12	Wetness	0.00	Wetness	0.00
		Too acid	0.97			Rock fragments	0.97
296595							
Linden	85	Fair		Good		Fair	
		Low content of organic matter	0.12			Hard to reclaim (rock fragments)	0.68
		Too acid	0.20			Rock fragments	0.72
		Water erosion	0.99			Too acid	0.76
296596							
Lordstown	94	Fair		Poor		Poor	
		Droughty	0.18	Depth to bedrock	0.00	Rock fragments	0.00
		Low content of organic matter	0.50			Depth to bedrock	0.54
		Too acid	0.54			Too acid	0.98
296599							
Lordstown	80	Fair		Poor		Poor	
		Droughty	0.18	Depth to bedrock	0.00	Rock fragments	0.00
		Low content of organic matter	0.50			Depth to bedrock	0.54
		Too acid	0.54			Too acid	0.98

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296600							
Lordstown	90	Fair		Poor		Poor	
		Droughty	0.18	Depth to bedrock	0.00	Rock fragments	0.00
		Low content of organic matter	0.50	Slope	0.92	Slope	0.00
		Too acid	0.54			Depth to bedrock	0.54
296601							
Medihemists	60	Not rated		Poor		Not rated	
				Wetness	0.00		
Medifibrists	30	Not rated		Poor		Not rated	
				Wetness	0.00		
296602							
Mardin	90	Fair		Fair		Poor	
		Droughty	0.20	Wetness	0.04	Rock fragments	0.00
		Too acid	0.32			Wetness	0.04
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.08
296603							
Mardin	90	Fair		Fair		Poor	
		Droughty	0.20	Wetness	0.04	Rock fragments	0.00
		Too acid	0.32			Wetness	0.04
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.08
296604							
Mardin	90	Fair		Fair		Poor	
		Droughty	0.20	Wetness	0.04	Slope	0.00
		Too acid	0.32	Slope	0.50	Rock fragments	0.00
		Low content of organic matter	0.50			Wetness	0.04
296605							
Mardin	90	Fair		Fair		Poor	
		Droughty	0.20	Wetness	0.04	Rock fragments	0.00
		Too acid	0.32			Wetness	0.04
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.08
296606							
Mardin	85	Fair		Fair		Poor	
		Droughty	0.20	Wetness	0.04	Rock fragments	0.00
		Too acid	0.32	Slope	0.92	Slope	0.00
		Low content of organic matter	0.50			Wetness	0.04
296608							
Morris	75	Fair		Poor		Poor	
		Low content of organic matter	0.08	Wetness	0.00	Wetness	0.00
		Too acid	0.54			Rock fragments	0.00
						Hard to reclaim (rock fragments)	0.50
296609							
Morris	80	Fair		Poor		Poor	
		Low content of organic matter	0.08	Wetness	0.00	Wetness	0.00
		Too acid	0.54			Rock fragments	0.00
						Slope	0.16

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296610							
Morris	75	Fair		Poor		Poor	
		Low content of organic matter	0.08	Wetness	0.00	Wetness	0.00
		Too acid	0.54	Stones	0.96	Rock fragments	0.00
						Hard to reclaim (rock fragments)	0.50
296611							
Morris	90	Fair		Poor		Poor	
		Low content of organic matter	0.08	Wetness	0.00	Wetness	0.00
		Too acid	0.54	Stones	0.96	Rock fragments	0.00
						Slope	0.37
296613							
Norwich	63	Fair		Poor		Poor	
		Droughty	0.26	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.32	Cobble content	0.99	Rock fragments	0.00
		Too acid	0.84			Hard to reclaim (rock fragments)	0.50
Chippewa	33	Fair		Poor		Poor	
		Droughty	0.10	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.32			Rock fragments	0.00
		Too acid	0.68			Hard to reclaim (rock fragments)	0.50
296614							
Oquaga	85	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50	Cobble content	0.98	Depth to bedrock	0.54
		Low content of organic matter	0.50			Too acid	0.76
296615							
Oquaga	85	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50	Cobble content	0.98	Slope	0.37
		Low content of organic matter	0.50			Depth to bedrock	0.54
296616							
Oquaga	85	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50	Slope	0.50	Slope	0.00
		Low content of organic matter	0.50	Cobble content	0.98	Depth to bedrock	0.54
296617							
Oquaga	85	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50	Cobble content	0.96	Depth to bedrock	0.54
		Low content of organic matter	0.50			Too acid	0.76
296618							
Oquaga	85	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50	Slope	0.92	Slope	0.00
		Low content of organic matter	0.50	Cobble content	0.96	Depth to bedrock	0.54

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296619							
Oquaga	45	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50	Slope	0.00	Slope	0.00
		Low content of organic matter	0.50	Cobble content	0.96	Depth to bedrock	0.54
Lordstown	20	Fair		Poor		Poor	
		Stone content	0.08	Depth to bedrock	0.00	Slope	0.00
		Droughty	0.27	Slope	0.00	Rock fragments	0.00
		Low content of organic matter	0.50	Stones	0.08	Depth to bedrock	0.54
296621							
Quarries	100	Not rated		Not rated		Not rated	
296622							
Rexford, poorly drained	45	Fair		Poor		Poor	
		Low content of organic matter	0.02	Wetness	0.00	Wetness	0.00
		Droughty	0.44			Hard to reclaim (rock fragments)	0.00
		Too acid	0.54			Rock fragments	0.12
Rexford, somewhat poorly drained	40	Fair		Poor		Poor	
		Low content of organic matter	0.02	Wetness	0.00	Wetness	0.00
		Droughty	0.44			Hard to reclaim (rock fragments)	0.00
		Too acid	0.54			Rock fragments	0.12
296623							
Rock outcrop	70	Not rated		Not rated		Not rated	
Arnot	20	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00			Depth to bedrock	0.00
		Too acid	0.50			Slope	0.04
296625							
Swartswood	90	Fair		Fair		Poor	
		Too acid	0.50	Wetness	0.76	Rock fragments	0.00
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.18
		Droughty	0.93			Slope	0.37
296628							
Swartswood	90	Fair		Fair		Poor	
		Too acid	0.50	Stones	0.38	Rock fragments	0.00
		Low content of organic matter	0.50	Wetness	0.76	Slope	0.00
		Stone content	0.92	Slope	0.92	Hard to reclaim (rock fragments)	0.18
296630							
Volusia	75	Fair		Poor		Poor	
		Droughty	0.03	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.08			Hard to reclaim (rock fragments)	0.24
		Too acid	0.61			Rock fragments	0.28

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296632							
Volusia	75	Fair		Poor		Poor	
		Droughty	0.03	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.08			Hard to reclaim (rock fragments)	0.24
		Too acid	0.61			Rock fragments	0.28
296633							
Volusia	90	Fair		Poor		Poor	
		Droughty	0.03	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.08			Hard to reclaim (rock fragments)	0.24
		Too acid	0.68			Rock fragments	0.28
296634							
Wellsboro	80	Fair		Fair		Poor	
		Low content of organic matter	0.08	Wetness	0.04	Rock fragments	0.00
		Too acid	0.32			Wetness	0.04
						Hard to reclaim (rock fragments)	0.82
296635							
Wellsboro	85	Fair		Fair		Poor	
		Low content of organic matter	0.08	Wetness	0.04	Rock fragments	0.00
		Too acid	0.32			Wetness	0.04
						Slope	0.37
296636							
Wellsboro		Fair		Fair		Poor	
		Low content of organic matter	0.08	Wetness	0.04	Rock fragments	0.00
		Too acid	0.32			Wetness	0.04
						Slope	0.37
296637							
Wellsboro	80	Fair		Fair		Poor	
		Low content of organic matter	0.08	Wetness	0.04	Rock fragments	0.00
		Too acid	0.32			Wetness	0.04
						Hard to reclaim (rock fragments)	0.82
296638							
Wellsboro	85	Fair		Fair		Poor	
		Low content of organic matter	0.08	Wetness	0.04	Rock fragments	0.00
		Too acid	0.32	Slope	0.92	Slope	0.00
						Wetness	0.04
296639							
Wellsboro	70	Fair		Poor		Poor	
		Low content of organic matter	0.08	Slope	0.00	Slope	0.00
		Too acid	0.32	Wetness	0.04	Rock fragments	0.00
						Wetness	0.04
Mardin	20	Fair		Poor		Poor	
		Droughty	0.20	Slope	0.00	Slope	0.00
		Too acid	0.32	Wetness	0.04	Rock fragments	0.00
		Low content of organic matter	0.50			Wetness	0.04

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296640							
Wyoming	85	Fair		Good		Poor	
		Droughty	0.01			Rock fragments	0.00
		Low content of organic matter	0.08			Hard to reclaim (rock fragments)	0.00
		Too acid	0.50			Too acid	0.76
296641							
Wyoming	85	Fair		Good		Poor	
		Droughty	0.01			Rock fragments	0.00
		Low content of organic matter	0.08			Hard to reclaim (rock fragments)	0.00
		Too acid	0.50			Slope	0.37
296642							
Wyoming	85	Fair		Fair		Poor	
		Droughty	0.01	Slope	0.50	Rock fragments	0.00
		Low content of organic matter	0.08			Slope	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.00
296643							
Wyoming	90	Fair		Poor		Poor	
		Droughty	0.01	Slope	0.00	Rock fragments	0.00
		Low content of organic matter	0.08			Slope	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.00
296644							
Water	100	Not rated		Not rated		Not rated	
297185							
Edgemere	42	Fair		Poor		Poor	
		Too acid	0.50	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50	Stones	0.68	Hard to reclaim (rock fragments)	0.24
		Droughty	0.90			Rock fragments	0.28
Shohola	42	Fair		Poor		Poor	
		Low content of organic matter	0.12	Wetness	0.00	Wetness	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.24
		Droughty	0.59			Rock fragments	0.28
297186							
Edgemere	75	Fair		Poor		Poor	
		Too acid	0.50	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50	Stones	0.55	Hard to reclaim (rock fragments)	0.24
		Droughty	0.90			Rock fragments	0.28
297188							
Manlius	40	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50	Slope	0.08	Slope	0.00
		Low content of organic matter	0.50	Cobble content	0.96	Depth to bedrock	0.54

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297188							
Arnot	35	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.08	Depth to bedrock	0.00
		Stone content	0.24	Stones	0.24	Slope	0.00
Rock outcrop	15	Not rated		Not rated		Not rated	
297189							
Manlius	40	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50	Slope	0.00	Slope	0.00
		Low content of organic matter	0.50	Cobble content	0.96	Depth to bedrock	0.54
Arnot	35	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.00	Depth to bedrock	0.00
		Stone content	0.24	Stones	0.24	Slope	0.00
Rock outcrop	15	Not rated		Not rated		Not rated	
297190							
Braceville	82	Fair		Fair		Fair	
		Low content of organic matter	0.08	Wetness	0.29	Wetness	0.29
		Too acid	0.54			Too acid	0.98
297191							
Wyalusing	85	Fair		Poor		Poor	
		Low content of organic matter	0.08	Wetness	0.00	Wetness	0.00
		Too acid	0.84	Cobble content	0.84	Hard to reclaim (rock fragments)	0.00
		Cobble content	0.99			Rock fragments	0.10
297192							
Pope	95	Fair		Good		Fair	
		Low content of organic matter	0.40			Too acid	0.59
		Too acid	0.50				
297193							
Paupack	90	Fair		Poor		Not rated	
		Too acid	0.50	Wetness	0.00		
297194							
Morris	82	Fair		Poor		Poor	
		Low content of organic matter	0.08	Wetness	0.00	Wetness	0.00
		Too acid	0.54			Rock fragments	0.00
						Hard to reclaim (rock fragments)	0.50
297196							
Freetown	94	Fair		Poor		Not rated	
		Too acid	0.50	Wetness	0.00		
297199							
Oquaga	78	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50	Cobble content	0.76	Depth to bedrock	0.71
		Depth to bedrock	0.71	Stones	0.86	Too acid	0.76

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297200							
Oquaga	78	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50	Cobble content	0.76	Slope	0.37
		Depth to bedrock	0.71	Stones	0.86	Depth to bedrock	0.71
297201							
Oquaga	75	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50	Slope	0.08	Slope	0.00
		Depth to bedrock	0.71	Cobble content	0.76	Depth to bedrock	0.71
297202							
Oquaga	40	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Stone content	0.05	Slope	0.00	Slope	0.00
		Too acid	0.50	Stones	0.05	Depth to bedrock	0.71
Arnot	30	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.00	Depth to bedrock	0.00
		Too acid	0.50	Cobble content	0.92	Slope	0.00
Rock outcrop	20	Not rated		Not rated		Not rated	
297203							
Delaware	93	Fair		Good		Good	
		Low content of organic matter	0.12				
		Too acid	0.97				
297204							
Delaware	82	Fair		Good		Good	
		Low content of organic matter	0.12				
		Too acid	0.97				
297205							
Delaware	80	Fair		Good		Fair	
		Low content of organic matter	0.12			Slope	0.04
		Too acid	0.97				
297207							
Wurtsboro	92	Fair		Fair		Poor	
		Low content of organic matter	0.02	Wetness	0.18	Rock fragments	0.00
		Too acid	0.50			Wetness	0.18
		Too sandy	0.99			Hard to reclaim (rock fragments)	0.50
297208							
Wurtsboro	92	Fair		Fair		Poor	
		Low content of organic matter	0.02	Wetness	0.18	Rock fragments	0.00
		Too acid	0.50			Wetness	0.18
		Too sandy	0.99			Slope	0.37

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297209							
Philo	85	Fair		Fair		Fair	
		Low content of organic matter	0.12	Wetness	0.76	Hard to reclaim (rock fragments)	0.68
		Too acid	0.54			Wetness	0.76
		Water erosion	0.99			Rock fragments	0.97
297210							
Barbour	85	Fair		Good		Fair	
		Low content of organic matter	0.02			Rock fragments	0.12
		Too acid	0.54			Hard to reclaim (rock fragments)	0.50
		Too sandy	0.98			Too acid	0.98
297211							
Wellsboro	89	Fair		Fair		Poor	
		Low content of organic matter	0.12	Wetness	0.04	Rock fragments	0.00
		Too acid	0.39			Wetness	0.04
						Hard to reclaim (rock fragments)	0.82
297212							
Wellsboro	89	Fair		Fair		Poor	
		Low content of organic matter	0.12	Wetness	0.04	Rock fragments	0.00
		Too acid	0.39			Wetness	0.04
						Slope	0.37
297213							
Wellsboro	82	Fair		Fair		Poor	
		Low content of organic matter	0.12	Wetness	0.04	Slope	0.00
		Too acid	0.39	Slope	0.50	Rock fragments	0.00
						Wetness	0.04
297215							
Wellsboro	91	Fair		Fair		Poor	
		Low content of organic matter	0.12	Wetness	0.04	Rock fragments	0.00
		Too acid	0.54			Wetness	0.04
						Slope	0.37
297216							
Wurtsboro	92	Fair		Fair		Fair	
		Low content of organic matter	0.02	Wetness	0.18	Rock fragments	0.03
		Too acid	0.50			Wetness	0.18
						Hard to reclaim (rock fragments)	0.50
297217							
Wurtsboro	88	Fair		Fair		Fair	
		Low content of organic matter	0.02	Wetness	0.18	Rock fragments	0.03
		Too acid	0.50			Wetness	0.18
						Slope	0.37
297218							
Wurtsboro	88	Fair		Fair		Poor	
		Low content of organic matter	0.02	Wetness	0.18	Slope	0.00
		Too acid	0.50	Slope	0.50	Rock fragments	0.03
						Wetness	0.18

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297221							
Lackawanna	81	Fair		Fair		Poor	
		Low content of organic matter	0.12	Wetness	0.76	Rock fragments	0.00
		Too acid	0.54			Hard to reclaim (rock fragments)	0.32
						Wetness	0.76
297223							
Lackawanna	75	Fair		Fair		Poor	
		Low content of organic matter	0.12	Slope	0.08	Slope	0.00
		Too acid	0.54	Wetness	0.76	Rock fragments	0.00
						Hard to reclaim (rock fragments)	0.32
297224							
Swartswood	95	Fair		Fair		Poor	
		Low content of organic matter	0.12	Wetness	0.89	Rock fragments	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.18
						Too acid	0.59
297225							
Swartswood	95	Fair		Fair		Poor	
		Low content of organic matter	0.12	Wetness	0.89	Rock fragments	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.18
						Slope	0.37
297226							
Swartswood	90	Fair		Fair		Poor	
		Low content of organic matter	0.12	Slope	0.08	Slope	0.00
		Too acid	0.50	Wetness	0.89	Rock fragments	0.00
						Hard to reclaim (rock fragments)	0.18
297227							
Arnot	88	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Cobble content	0.96	Depth to bedrock	0.00
		Too acid	0.50			Too acid	0.76
297228							
Arnot	85	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.00	Depth to bedrock	0.00
		Too acid	0.50	Cobble content	0.96	Slope	0.00
297229							
Wyoming	90	Fair		Fair		Poor	
		Low content of organic matter	0.12	Cobble content	0.01	Hard to reclaim (rock fragments)	0.00
		Droughty	0.20			Rock fragments	0.00
		Cobble content	0.27			Too acid	0.76
297230							
Wyoming	90	Fair		Fair		Poor	
		Low content of organic matter	0.12	Cobble content	0.84	Hard to reclaim (rock fragments)	0.00
		Droughty	0.20			Rock fragments	0.00
		Too acid	0.50			Slope	0.37

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297231							
Wyoming	90	Fair		Poor		Poor	
		Low content of organic matter	0.12	Cobble content	0.00	Hard to reclaim (rock fragments)	0.00
		Cobble content	0.16	Slope	0.08	Rock fragments	0.00
		Droughty	0.20			Slope	0.00
297236							
Suncook	91	Poor		Good		Poor	
		Too sandy	0.00			Too sandy	0.00
		Wind erosion	0.00			Rock fragments	0.50
		Low content of organic matter	0.05				
297239							
Mardin	85	Fair		Fair		Poor	
		Low content of organic matter	0.08	Wetness	0.04	Rock fragments	0.00
		Droughty	0.24	Stones	0.83	Wetness	0.04
		Too acid	0.39			Hard to reclaim (rock fragments)	0.08
297240							
Mardin	85	Fair		Fair		Poor	
		Low content of organic matter	0.08	Wetness	0.04	Rock fragments	0.00
		Droughty	0.24	Stones	0.83	Wetness	0.04
		Too acid	0.39			Hard to reclaim (rock fragments)	0.08
297241							
Unadilla	90	Fair		Good		Fair	
		Water erosion	0.06			Too acid	0.98
		Low content of organic matter	0.50				
		Too acid	0.54				
297242							
Shohola	62	Fair		Poor		Poor	
		Low content of organic matter	0.12	Wetness	0.00	Wetness	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.24
		Droughty	0.59			Rock fragments	0.28
Edgemere	29	Fair		Poor		Poor	
		Too acid	0.50	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50	Stones	0.68	Hard to reclaim (rock fragments)	0.24
		Droughty	0.90			Rock fragments	0.28
297243							
Shohola	62	Fair		Poor		Poor	
		Low content of organic matter	0.12	Wetness	0.00	Wetness	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.24
		Droughty	0.59			Rock fragments	0.28
Edgemere	29	Fair		Poor		Poor	
		Too acid	0.50	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50	Stones	0.68	Hard to reclaim (rock fragments)	0.24
		Droughty	0.90			Rock fragments	0.28

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297244							
Lordstown	40	Fair		Poor		Poor	
		Droughty	0.19	Depth to bedrock	0.00	Rock fragments	0.00
		Low content of organic matter	0.50			Depth to bedrock	0.54
		Too acid	0.54			Too acid	0.98
Swartswood	35	Fair		Fair		Poor	
		Low content of organic matter	0.12	Wetness	0.89	Rock fragments	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.18
						Too acid	0.59
297245							
Lordstown	40	Fair		Poor		Poor	
		Droughty	0.19	Depth to bedrock	0.00	Rock fragments	0.00
		Low content of organic matter	0.50			Slope	0.37
		Too acid	0.54			Depth to bedrock	0.54
Swartswood	35	Fair		Fair		Poor	
		Low content of organic matter	0.12	Wetness	0.89	Rock fragments	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.18
						Slope	0.37
297246							
Lordstown	40	Fair		Poor		Poor	
		Droughty	0.19	Depth to bedrock	0.00	Slope	0.00
		Low content of organic matter	0.50	Slope	0.08	Rock fragments	0.00
		Too acid	0.54			Depth to bedrock	0.54
						Depth to bedrock	
Swartswood	35	Fair		Fair		Poor	
		Low content of organic matter	0.12	Slope	0.08	Slope	0.00
		Too acid	0.50	Wetness	0.89	Rock fragments	0.00
						Hard to reclaim (rock fragments)	0.18
297247							
Chenango	86	Fair		Good		Poor	
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.00
		Too acid	0.54			Rock fragments	0.00
		Droughty	0.57			Too acid	0.98
297248							
Chenango	85	Fair		Good		Poor	
		Low content of organic matter	0.50			Hard to reclaim (rock fragments)	0.00
		Too acid	0.54			Rock fragments	0.00
		Droughty	0.57			Slope	0.37
297249							
Chenango	90	Fair		Fair		Poor	
		Low content of organic matter	0.50	Slope	0.50	Hard to reclaim (rock fragments)	0.00
		Too acid	0.54			Slope	0.00
		Droughty	0.57			Rock fragments	0.00

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297250							
Lordstown	94	Fair		Poor		Poor	
		Droughty	0.19	Depth to bedrock	0.00	Rock fragments	0.00
		Low content of organic matter	0.50			Depth to bedrock	0.54
		Too acid	0.54			Too acid	0.98
297251							
Lordstown	86	Fair		Poor		Poor	
		Droughty	0.19	Depth to bedrock	0.00	Rock fragments	0.00
		Low content of organic matter	0.50			Slope	0.37
		Too acid	0.54			Depth to bedrock	0.54
297253							
Craigsville	50	Poor		Poor		Poor	
		Cobble content	0.00	Cobble content	0.00	Hard to reclaim (rock fragments)	0.00
		Low content of organic matter	0.12			Rock fragments	0.00
		Too acid	0.50			Too acid	0.88
Wyoming	40	Fair		Good		Poor	
		Low content of organic matter	0.12			Rock fragments	0.00
		Droughty	0.20			Hard to reclaim (rock fragments)	0.00
		Too acid	0.50			Too acid	0.76
297254							
Pits, shale	40	Not rated		Not rated		Not rated	
Pits, gravel	40	Not rated		Not rated		Not rated	
309440							
Edgemere	42	Fair		Poor		Poor	
		Too acid	0.50	Wetness	0.00	Wetness	0.00
		Low content of organic matter	0.50	Stones	0.68	Hard to reclaim (rock fragments)	0.24
		Droughty	0.90			Rock fragments	0.28
Shohola	42	Fair		Poor		Poor	
		Low content of organic matter	0.12	Wetness	0.00	Wetness	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.24
		Droughty	0.59			Rock fragments	0.28
319863							
Oquaga	40	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Stone content	0.05	Slope	0.00	Slope	0.00
		Too acid	0.50	Stones	0.05	Depth to bedrock	0.71
Arnot	30	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Slope	0.00	Depth to bedrock	0.00
		Too acid	0.50	Cobble content	0.92	Slope	0.00
Rock outcrop	20	Not rated		Not rated		Not rated	

Table 12.--Source of Reclamation Material, Roadfill, and Topsoil--Continued

Map unit symbol and soil name	Pct. of map unit	Source of reclamation material		Roadfill source		Topsoil source	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
319865							
Wellsboro	89	Fair		Fair		Poor	
		Low content of organic matter	0.12	Wetness	0.04	Rock fragments	0.00
		Too acid	0.39			Wetness	0.04
						Hard to reclaim (rock fragments)	0.82
741008							
Oquaga	78	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50	Cobble content	0.76	Depth to bedrock	0.71
		Depth to bedrock	0.71	Stones	0.86	Too acid	0.76

Table 13.--Ponds and Embankments

[Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table]

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290457							
Barbour	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Unstable excavation walls	1.00
						Depth to saturated zone	0.96
290461							
Bath	80	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70				
290465							
Cadosia	75	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Seepage	0.38	Depth to water	1.00
		Seepage	0.70				
290466							
Cadosia	75	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Seepage	0.38	Depth to water	1.00
		Seepage	0.70				
290468							
Chenango	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	0.68				
290483							
Fluvaquents	45	Very limited		Very limited		Very limited	
		Seepage	1.00	Ponding	1.00	Unstable excavation walls	1.00
				Depth to saturated zone	1.00		
Udifluvents	35	Very limited		Not limited		Very limited	
		Seepage	1.00			Unstable excavation walls	1.00
						Depth to saturated zone	0.81
290484							
Halcott	25	Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Thin layer	1.00	Depth to water	1.00
		Slope	1.00				
Mongaup	25	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.91	Depth to water	1.00
		Depth to bedrock	0.91				
		Seepage	0.70				
Vly	25	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.83	Depth to water	1.00
		Depth to bedrock	0.83				
		Seepage	0.70				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290485							
Halcott	25	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
Mongaup	25	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.91	Depth to water	1.00
		Depth to bedrock	0.91				
		Seepage	0.70				
Vly	25	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.83	Depth to water	1.00
		Depth to bedrock	0.83				
		Seepage	0.70				
290487							
Lackawanna	80	Somewhat limited		Very limited		Very limited	
		Seepage	0.70	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	0.68	Piping	1.00		
290488							
Lackawanna	80	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70	Piping	1.00		
290489							
Lackawanna	80	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70	Piping	1.00		
290490							
Lackawanna	80	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70	Piping	1.00		
290491							
Lackawanna	50	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70	Piping	1.00		
Bath	30	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70				
290492							
Lackawanna	50	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70	Piping	1.00		
Bath	30	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290493							
Lackawanna	50	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70	Piping	1.00		
Bath	30	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70				
290506							
Lordstown	80	Somewhat limited		Somewhat limited		Very limited	
		Depth to bedrock	0.81	Thin layer	0.81	Depth to water	1.00
		Seepage	0.70				
		Slope	0.32				
290507							
Lordstown	80	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.81	Depth to water	1.00
		Depth to bedrock	0.81				
		Seepage	0.70				
290509							
Lordstown	80	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.81	Depth to water	1.00
		Depth to bedrock	0.81				
		Seepage	0.70				
290510							
Maplecrest	80	Very limited		Not limited		Very limited	
		Seepage	1.00			Depth to water	1.00
		Slope	0.68				
290511							
Maplecrest	80	Very limited		Not limited		Very limited	
		Slope	1.00			Depth to water	1.00
		Seepage	1.00				
290512							
Maplecrest	80	Very limited		Not limited		Very limited	
		Slope	1.00			Depth to water	1.00
		Seepage	1.00				
290514							
Mardin	80	Somewhat limited		Very limited		Very limited	
		Seepage	0.70	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	0.68				
290515							
Mardin	80	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70				
290519							
Mongaup	80	Somewhat limited		Somewhat limited		Very limited	
		Depth to bedrock	0.91	Thin layer	0.91	Depth to water	1.00
		Seepage	0.70				
		Slope	0.32				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290522							
Morris	85	Not limited		Very limited		Very limited	
				Depth to saturated zone	1.00	Depth to water	1.00
				Piping	1.00		
290523							
Morris	85	Somewhat limited		Very limited		Very limited	
		Slope	0.68	Depth to saturated zone	1.00	Depth to water	1.00
				Piping	1.00		
290525							
Morris	50	Somewhat limited		Very limited		Very limited	
		Slope	0.68	Depth to saturated zone	1.00	Depth to water	1.00
				Piping	1.00		
Volusia	30	Somewhat limited		Very limited		Very limited	
		Seepage	0.70	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	0.68	Piping	1.00		
290526							
Norchip	80	Not limited		Very limited		Very limited	
				Depth to saturated zone	1.00	Depth to water	1.00
290535							
Oquaga	80	Somewhat limited		Somewhat limited		Very limited	
		Depth to bedrock	0.98	Thin layer	0.98	Depth to water	1.00
		Seepage	0.70				
		Slope	0.32				
290536							
Oquaga	80	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.98	Depth to water	1.00
		Depth to bedrock	0.98				
		Seepage	0.70				
290539							
Oquaga	80	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.98	Depth to water	1.00
		Depth to bedrock	0.98				
		Seepage	0.70				
290540							
Oquaga	25	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.98	Depth to water	1.00
		Depth to bedrock	0.98				
		Seepage	0.70				
Lordstown	25	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.81	Depth to water	1.00
		Depth to bedrock	0.81				
		Seepage	0.70				
Arnot	25	Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Thin layer	1.00	Depth to water	1.00
		Slope	1.00				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290541							
Oquaga	25	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.98	Depth to water	1.00
		Depth to bedrock	0.98				
		Seepage	0.70				
Lordstown	25	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.81	Depth to water	1.00
		Depth to bedrock	0.81				
		Seepage	0.70				
Arnot	25	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
290542							
Oquaga	25	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.98	Depth to water	1.00
		Depth to bedrock	0.98				
		Seepage	0.70				
Lordstown	25	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.81	Depth to water	1.00
		Depth to bedrock	0.81				
		Seepage	0.70				
Arnot	25	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
290544							
Pits, gravel	85	Not rated		Not rated		Not rated	
290546							
Raypol	80	Very limited		Very limited		Very limited	
		Seepage	1.00	Ponding	1.00	Unstable excavation walls	1.00
				Depth to saturated zone	1.00		
				Seepage	1.00		
290547							
Red Hook	80	Somewhat limited		Very limited		Very limited	
		Seepage	0.70	Depth to saturated zone	1.00	Unstable excavation walls	1.00
						Slow refill	0.30
290548							
Riverhead	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
290549							
Riverhead	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	0.68				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290555							
Torull	40	Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Depth to saturated zone	1.00	Depth to hard bedrock	1.00
				Thin layer	1.00	Slow refill	0.98
				Piping	1.00	Unstable excavation walls	0.10
Gretor	40	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.95	Depth to saturated zone	1.00	Depth to hard bedrock	1.00
		Seepage	0.02	Thin layer	0.95	Unstable excavation walls	0.50
						Slow refill	0.30
290556							
Tunkhannock	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
290562							
Tunkhannock	50	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Unstable excavation walls	1.00
		Slope	0.68			Depth to saturated zone	0.96
Chenango	30	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Unstable excavation walls	1.00
		Slope	0.68			Depth to saturated zone	0.96
290563							
Udorthents	80	Very limited		Not rated		Not rated	
		Seepage	1.00				
		Slope	1.00				
290565							
Unadilla	80	Very limited		Very limited		Very limited	
		Seepage	1.00	Piping	1.00	Depth to water	1.00
290567							
Valois	80	Very limited		Not limited		Very limited	
		Seepage	1.00			Depth to water	1.00
		Slope	0.68				
290568							
Valois	80	Very limited		Not limited		Very limited	
		Slope	1.00			Depth to water	1.00
		Seepage	1.00				
290569							
Valois	80	Very limited		Not limited		Very limited	
		Slope	1.00			Depth to water	1.00
		Seepage	1.00				
290570							
Valois	80	Very limited		Not limited		Very limited	
		Slope	1.00			Depth to water	1.00
		Seepage	1.00				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
290576							
Volusia	85	Somewhat limited		Very limited		Very limited	
		Seepage	0.70	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	0.68	Piping	1.00		
290578							
Wellsboro	80	Somewhat limited		Very limited		Very limited	
		Seepage	0.70	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	0.32				
290579							
Wellsboro	80	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70				
290581							
Wellsboro	50	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70				
Mardin	30	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70				
290582							
Wenonah	85	Very limited		Very limited		Somewhat limited	
		Seepage	1.00	Piping	1.00	Depth to saturated zone	0.96
						Unstable excavation walls	0.10
290592							
Carlisle	45	Very limited		Very limited		Somewhat limited	
		Seepage	1.00	Organic matter content	1.00	Unstable excavation walls	0.10
				Ponding	1.00		
				Depth to saturated zone	1.00		
				Seepage	1.00		
				Hard to pack	1.00		
Palms	40	Very limited		Very limited		Very limited	
		Seepage	1.00	Ponding	1.00	Unstable excavation walls	1.00
				Depth to saturated zone	1.00		
				Seepage	1.00		
293892							
Alden, extremely stony	75	Somewhat limited		Very limited		Very limited	
		Seepage	0.03	Ponding	1.00	Unstable excavation walls	1.00
				Depth to saturated zone	1.00	Slow refill	0.30
				Piping	1.00		
293895							
Arnot	50	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293895							
Lordstown	35	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.61	Depth to water	1.00
		Seepage	0.70				
		Depth to bedrock	0.61				
293896							
Arnot	60	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
Lordstown	30	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.70	Depth to water	1.00
		Seepage	0.70				
		Depth to bedrock	0.69				
293897							
Arnot	65	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
Lordstown	25	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.74	Depth to water	1.00
		Depth to bedrock	0.74				
		Seepage	0.70				
293921							
Erie, extremely stony	80	Very limited		Very limited		Very limited	
		Depth to cemented pan	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	0.68	Piping	0.97		
293929							
Hoosic	80	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	0.68				
293930							
Hoosic	80	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
293931							
Hoosic	80	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
293932							
Lordstown	80	Somewhat limited		Somewhat limited		Very limited	
		Seepage	0.70	Thin layer	0.56	Depth to water	1.00
		Slope	0.68				
		Depth to bedrock	0.56				
293939							
Middlebury	80	Very limited		Very limited		Very limited	
		Seepage	1.00	Depth to saturated zone	1.00	Unstable excavation walls	1.00

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293943							
Otisville	80	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	0.08				
293944							
Otisville	80	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
293945							
Otisville	80	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
293946							
Otisville	40	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
Hoosic	40	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
293949							
Pits, gravel	75	Not rated		Not rated		Not rated	
293961							
Rock outcrop	50	Not rated		Not rated		Not rated	
Arnot	35	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
293962							
Rock outcrop	50	Not rated		Not rated		Not rated	
Arnot	40	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
293963							
Rock outcrop	60	Not rated		Not rated		Not rated	
Arnot	30	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
293975							
Suncook	80	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Unstable excavation walls	1.00
						Depth to saturated zone	0.96

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293979							
Swartswood, very stony	40	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Depth to saturated zone	0.95	Depth to water	1.00
		Depth to cemented pan	0.83				
		Seepage	0.70				
Mardin	40	Very limited		Very limited		Very limited	
		Depth to cemented pan	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	1.00	Piping	1.00		
293980							
Swartswood, very stony	40	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Depth to saturated zone	0.95	Depth to water	1.00
		Depth to cemented pan	0.91				
		Seepage	0.70				
Mardin	40	Very limited		Very limited		Very limited	
		Depth to cemented pan	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	1.00	Piping	1.00		
293981							
Swartswood, very stony	40	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Depth to saturated zone	0.95	Depth to water	1.00
		Depth to cemented pan	0.95				
		Seepage	0.70				
Mardin	35	Very limited		Very limited		Very limited	
		Depth to cemented pan	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	1.00	Piping	1.00		
293983							
Udifluvents, frequently flooded	45	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Unstable excavation walls	1.00
						Depth to saturated zone	0.81
Fluvaquents	30	Very limited		Very limited		Very limited	
		Seepage	1.00	Ponding	1.00	Unstable excavation walls	1.00
				Depth to saturated zone			
295043							
Alden	80	Somewhat limited		Very limited		Very limited	
		Seepage	0.03	Ponding	1.00	Unstable excavation walls	1.00
				Depth to saturated zone	1.00	Slow refill	0.30
				Piping	1.00		

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295044							
Arnot	40	Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Thin layer	1.00	Depth to water	1.00
		Slope	1.00				
Lordstown	40	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.91	Depth to water	1.00
		Depth to bedrock	0.91				
		Seepage	0.70				
295045							
Arnot	40	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
Lordstown	40	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.91	Depth to water	1.00
		Depth to bedrock	0.91				
		Seepage	0.70				
295046							
Arnot	45	Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Thin layer	1.00	Depth to water	1.00
		Slope	1.00				
Oquaga	40	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.66	Depth to water	1.00
		Seepage	0.70	Seepage	0.50		
		Depth to bedrock	0.66				
295047							
Arnot	50	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
Oquaga	35	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.66	Depth to water	1.00
		Seepage	0.70	Seepage	0.50		
		Depth to bedrock	0.66				
295048							
Arnot	60	Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Thin layer	1.00	Depth to water	1.00
		Slope	1.00				
Rock outcrop	25	Not rated		Not rated		Not rated	
295049							
Arnot	55	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
Rock outcrop	30	Not rated		Not rated		Not rated	
295050							
Arnot	45	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
Rock outcrop	40	Not rated		Not rated		Not rated	

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295051							
Barbour	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Unstable excavation walls	1.00
						Depth to saturated zone	0.96
295052							
Bash	85	Somewhat limited		Very limited		Somewhat limited	
		Seepage	0.81	Depth to saturated zone	1.00	Slow refill	0.19
						Unstable excavation walls	0.10
				Piping	1.00		
295053							
Carlisle	85	Very limited		Not rated		Somewhat limited	
		Seepage	1.00			Unstable excavation walls	0.10
295054							
Carlisle, ponded	25	Very limited		Not rated		Somewhat limited	
		Seepage	1.00			Unstable excavation walls	0.10
Palms, ponded	25	Very limited		Very limited		Somewhat limited	
		Seepage	1.00	Ponding	1.00	Unstable excavation walls	0.50
				Depth to saturated zone	1.00		
				Seepage	1.00		
				Hard to pack	1.00		
Alden, ponded	25	Somewhat limited		Very limited		Very limited	
		Seepage	0.03	Ponding	1.00	Unstable excavation walls	1.00
				Depth to saturated zone	1.00	Slow refill	0.30
				Piping	1.00		
295055							
Chenango	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
295056							
Chenango	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	0.68				
295057							
Chenango	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
295059							
Cheshire, stony	85	Very limited		Not limited		Very limited	
		Seepage	1.00			Depth to water	1.00
		Slope	0.68				
295060							
Cheshire, stony	85	Very limited		Not limited		Very limited	
		Slope	1.00			Depth to water	1.00
		Seepage	1.00				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295061							
Cheshire, stony-----	85	Very limited		Not limited		Very limited	
		Slope	1.00			Depth to water	1.00
		Seepage	1.00				
295062							
Cheshire, stony-----	85	Very limited		Not limited		Very limited	
		Slope	1.00			Depth to water	1.00
		Seepage	1.00				
295063							
Cheshire, stony-----	85	Very limited		Not limited		Very limited	
		Slope	1.00			Depth to water	1.00
		Seepage	1.00				
295069							
Fluvaquents---------	45	Somewhat limited		Very limited		Very limited	
		Seepage	0.70	Ponding	1.00	Unstable excavation walls	1.00
				Depth to saturated zone	1.00	Slow refill	0.30
Udifluvents, frequently flooded-	40	Very limited		Not limited		Very limited	
		Seepage	1.00			Unstable excavation walls	1.00
						Depth to saturated zone	0.81
295074							
Lackawanna----------	80	Somewhat limited		Somewhat limited		Very limited	
		Depth to cemented pan	0.74	Depth to saturated zone	0.99	Depth to water	1.00
		Seepage	0.70				
		Slope	0.68				
295075							
Lackawanna----------	85	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Depth to saturated zone	0.99	Depth to water	1.00
		Depth to cemented pan	0.74				
		Seepage	0.70				
295076							
Lackawanna----------	85	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Depth to saturated zone	0.99	Depth to water	1.00
		Depth to cemented pan	0.74				
		Seepage	0.70				
295082							
Lordstown, stony----	85	Somewhat limited		Somewhat limited		Very limited	
		Depth to bedrock	0.91	Thin layer	0.91	Depth to water	1.00
		Seepage	0.70				
		Slope	0.68				
295083							
Lordstown, very stony----------	55	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.91	Depth to water	1.00
		Depth to bedrock	0.91				
		Seepage	0.70				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295083							
Arnot, very stony---	25	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
295092							
Morris---	85	Very limited		Very limited		Very limited	
		Depth to cemented pan	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70				
295093							
Morris---	85	Very limited		Very limited		Very limited	
		Depth to cemented pan	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70				
		Slope	0.32				
295094							
Morris---	85	Very limited		Very limited		Very limited	
		Depth to cemented pan	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	1.00				
		Seepage	0.70				
295095							
Neversink---	80	Not limited		Very limited		Very limited	
				Depth to saturated zone	1.00	Unstable excavation walls	1.00
						Slow refill	0.30
295101							
Oquaga---	85	Somewhat limited		Somewhat limited		Very limited	
		Seepage	0.70	Thin layer	0.66	Depth to water	1.00
		Slope	0.68	Seepage	0.50		
		Depth to bedrock	0.66				
295102							
Oquaga---	50	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.66	Depth to water	1.00
		Seepage	0.70	Seepage	0.50		
		Depth to bedrock	0.66				
Arnot---	35	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
295103							
Oquaga---	50	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.66	Depth to water	1.00
		Seepage	0.70	Seepage	0.50		
		Depth to bedrock	0.66				
Arnot---	35	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
295105							
Otisville---	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295106							
Otisville	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	0.68				
295107							
Otisville	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
295109							
Palms	85	Very limited		Very limited		Somewhat limited	
		Seepage	1.00	Ponding	1.00	Unstable excavation walls	0.50
				Depth to saturated zone	1.00		
				Seepage	1.00		
				Hard to pack	1.00		
295110							
Philo	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Depth to saturated zone	1.00	Unstable excavation walls	1.00
				Piping	1.00		
295111							
Pits, gravel	80	Not rated		Not rated		Not rated	
295112							
Pits, quarry	80	Not rated		Not rated		Not rated	
295113							
Pompton	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Depth to saturated zone	1.00	Unstable excavation walls	1.00
				Seepage	1.00		
295114							
Pompton	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Depth to saturated zone	1.00	Unstable excavation walls	1.00
		Slope	0.08	Seepage	1.00		
295115							
Pope, occasionally flooded	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Piping	1.00	Depth to water	1.00
295116							
Pope, rarely flooded	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Piping	1.00	Depth to water	1.00
295117							
Raynham, poorly drained	50	Somewhat limited		Very limited		Somewhat limited	
		Seepage	0.53	Depth to saturated zone	1.00	Unstable excavation walls	0.50
				Piping	1.00	Slow refill	0.47

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295117							
Raynham, somewhat poorly drained	30	Somewhat limited		Very limited		Somewhat limited	
		Seepage	0.53	Depth to saturated zone	1.00	Slow refill	0.47
						Unstable excavation walls	0.10
				Piping	1.00		
295118							
Red Hook	80	Somewhat limited		Very limited		Very limited	
		Seepage	0.70	Depth to saturated zone	1.00	Unstable excavation walls	1.00
						Slow refill	0.30
295119							
Riverhead	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
295120							
Riverhead	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	0.68				
295121							
Riverhead	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
295122							
Scio	80	Very limited		Very limited		Somewhat limited	
		Seepage	1.00	Depth to saturated zone	1.00	Unstable excavation walls	0.10
		Slope	0.08				
				Piping	1.00		
295123							
Scriba, stony	80	Very limited		Very limited		Very limited	
		Depth to cemented pan	1.00	Depth to saturated zone	1.00	Depth to water	1.00
295124							
Scriba, stony	75	Very limited		Very limited		Very limited	
		Depth to cemented pan	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	0.68				
295125							
Scriba, extremely stony	40	Very limited		Very limited		Very limited	
		Depth to cemented pan	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	0.32				
Morris, extremely stony	40	Very limited		Very limited		Very limited	
		Depth to cemented pan	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70				
		Slope	0.32				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295126							
Suncook	80	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Unstable excavation walls	1.00
						Depth to saturated zone	0.96
295129							
Swartswood	85	Somewhat limited		Very limited		Very limited	
		Depth to cemented pan	0.95	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70	Seepage	0.68		
		Slope	0.68				
295130							
Swartswood	85	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Depth to cemented pan	0.95	Seepage	0.68		
		Seepage	0.70				
295131							
Swartswood	85	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Depth to cemented pan	0.95	Seepage	0.68		
		Seepage	0.70				
295132							
Swartswood, stony	40	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Depth to cemented pan	0.95	Seepage	0.66		
		Seepage	0.70				
Lackawanna, stony	40	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Depth to saturated zone	0.99	Depth to water	1.00
		Depth to cemented pan	0.74				
		Seepage	0.70				
295133							
Swartswood, very stony	40	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Depth to cemented pan	0.95	Seepage	0.66		
		Seepage	0.70				
Lackawanna, very stony	40	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Depth to saturated zone	0.99	Depth to water	1.00
		Depth to cemented pan	0.74				
		Seepage	0.70				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295134							
Swartswood, very stony	40	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Depth to cemented pan	0.95	Seepage	0.66		
		Seepage	0.70				
Lackawanna, very stony	40	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Depth to saturated zone	0.99	Depth to water	1.00
		Depth to cemented pan	0.74				
		Seepage	0.70				
295136							
Tuller, somewhat poorly drained	40	Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Depth to saturated zone	1.00	Depth to hard bedrock	1.00
				Thin layer	1.00	Slow refill	1.00
						Unstable excavation walls	0.10
Tuller, poorly drained	20	Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Depth to saturated zone	1.00	Depth to hard bedrock	1.00
				Thin layer	1.00	Slow refill	0.98
						Unstable excavation walls	0.10
Rock outcrop	20	Not rated		Not rated		Not rated	
295137							
Tunkhannock	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
295138							
Tunkhannock	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	0.68				
295139							
Tunkhannock	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
295140							
Tunkhannock	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
295141							
Tunkhannock	45	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
Otisville	40	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295142							
Tunkhannock	45	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
Otisville	40	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
295143							
Udorthents	75	Not rated		Not rated		Not rated	
295144							
Unadilla	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Piping	1.00	Depth to water	1.00
295145							
Unadilla	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Piping	1.00	Depth to water	1.00
		Slope	0.08				
295146							
Valois	80	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	0.68				
295147							
Valois	80	Very limited		Very limited		Very limited	
		Slope	1.00	Seepage	1.00	Depth to water	1.00
		Seepage	1.00				
295148							
Valois	80	Very limited		Very limited		Very limited	
		Slope	1.00	Seepage	1.00	Depth to water	1.00
		Seepage	1.00				
295149							
Valois	80	Very limited		Very limited		Very limited	
		Slope	1.00	Seepage	1.00	Depth to water	1.00
		Seepage	1.00				
295150							
Valois	80	Very limited		Very limited		Very limited	
		Slope	1.00	Seepage	1.00	Depth to water	1.00
		Seepage	1.00				
295153							
Wayland	85	Not limited		Very limited		Somewhat limited	
				Ponding	1.00	Slow refill	0.47
				Depth to saturated zone	1.00	Unstable excavation walls	0.10
				Piping	1.00		
295154							
Wellsboro	85	Somewhat limited		Very limited		Very limited	
		Depth to cemented pan	0.99	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295155							
Wellsboro	85	Somewhat limited		Very limited		Very limited	
		Depth to cemented pan	0.99	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70				
		Slope	0.68				
295156							
Wellsboro	85	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Depth to cemented pan	0.99				
		Seepage	0.70				
295157							
Wellsboro, extremely stony	40	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Depth to cemented pan	0.99				
		Seepage	0.70				
Wurtsboro, extremely stony	40	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Depth to cemented pan	0.91				
		Seepage	0.70				
295162							
Wurtsboro, stony	85	Somewhat limited		Very limited		Very limited	
		Depth to cemented pan	0.91	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70				
295163							
Wurtsboro, stony	85	Somewhat limited		Very limited		Very limited	
		Depth to cemented pan	0.91	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.70				
		Slope	0.68				
295164							
Wurtsboro, stony	85	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Depth to cemented pan	0.91				
		Seepage	0.70				
296588							
Arnot	90	Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Thin layer	1.00	Depth to water	1.00
		Slope	0.68				
296589							
Arnot	90	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296590							
Arnot	95	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
296591							
Barbour	70	Very limited		Not limited		Very limited	
		Seepage	1.00			Unstable excavation walls	1.00
						Depth to saturated zone	0.96
296592							
Basher	87	Very limited		Very limited		Very limited	
		Seepage	1.00	Depth to saturated zone	1.00	Unstable excavation walls	1.00
				Piping	1.00		
296593							
Fluvents	70	Very limited		Very limited		Somewhat limited	
		Seepage	1.00	Piping	1.00	Depth to saturated zone	0.24
				Depth to saturated zone	0.46	Unstable excavation walls	0.10
Fluvaquents	20	Very limited		Very limited		Somewhat limited	
		Seepage	1.00	Depth to saturated zone	1.00	Unstable excavation walls	0.10
				Piping	1.00		
296594							
Holly	95	Very limited		Very limited		Very limited	
		Seepage	1.00	Ponding	1.00	Unstable excavation walls	1.00
				Depth to saturated zone	1.00		
				Piping	1.00		
296595							
Linden	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Piping	1.00	Unstable excavation walls	1.00
						Depth to saturated zone	0.96
296596							
Lordstown	94	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.86	Piping	1.00	Depth to water	1.00
		Seepage	0.72	Thin layer	0.86		
		Slope	0.68				
296599							
Lordstown	80	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.86	Piping	1.00	Depth to water	1.00
		Seepage	0.72	Thin layer	0.86		
		Slope	0.68				
296600							
Lordstown	90	Very limited		Very limited		Very limited	
		Slope	1.00	Piping	1.00	Depth to water	1.00
		Depth to bedrock	0.86	Thin layer	0.86		
		Seepage	0.72				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296601							
Medihemists	60	Very limited Seepage	 1.00	Not rated		Somewhat limited Unstable excavation walls	 0.10
Medifibrists	30	Very limited Seepage	 1.00	Not rated		Somewhat limited Unstable excavation walls	 0.10
296602							
Mardin	90	Somewhat limited Seepage Slope	 0.72 0.68	Very limited Depth to saturated zone	 1.00	Very limited Depth to water	 1.00
296603							
Mardin	90	Very limited Slope Seepage	 1.00 0.72	Very limited Depth to saturated zone	 1.00	Very limited Depth to water	 1.00
296604							
Mardin	90	Very limited Slope Seepage	 1.00 0.72	Very limited Depth to saturated zone	 1.00	Very limited Depth to water	 1.00
296605							
Mardin	90	Somewhat limited Seepage Slope	 0.72 0.68	Very limited Depth to saturated zone	 1.00	Very limited Depth to water	 1.00
296606							
Mardin	85	Very limited Slope Seepage	 1.00 0.72	Very limited Depth to saturated zone	 1.00	Very limited Depth to water	 1.00
296608							
Morris	75	Somewhat limited Slope	 0.68	Very limited Depth to saturated zone	 1.00	Very limited Depth to water	 1.00
296609							
Morris	80	Very limited Slope	 1.00	Very limited Depth to saturated zone	 1.00	Very limited Depth to water	 1.00
296610							
Morris	75	Somewhat limited Slope	 0.08	Very limited Depth to saturated zone	 1.00	Very limited Depth to water	 1.00
296611							
Morris	90	Very limited Slope	 1.00	Very limited Depth to saturated zone	 1.00	Very limited Depth to water	 1.00
296613							
Norwich	63	Not limited		Very limited Ponding Depth to saturated zone	 1.00 1.00	Very limited Depth to water	 1.00

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296613							
Chippewa	33	Not limited		Very limited		Very limited	
				Depth to saturated zone	1.00	Depth to water	1.00
296614							
Oquaga	85	Somewhat limited		Somewhat limited		Very limited	
		Depth to bedrock	0.86	Thin layer	0.86	Depth to water	1.00
		Seepage	0.72				
		Slope	0.68				
296615							
Oquaga	85	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.86	Depth to water	1.00
		Depth to bedrock	0.86				
		Seepage	0.72				
296616							
Oquaga	85	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.86	Depth to water	1.00
		Depth to bedrock	0.86				
		Seepage	0.72				
296617							
Oquaga	85	Somewhat limited		Somewhat limited		Very limited	
		Depth to bedrock	0.86	Thin layer	0.86	Depth to water	1.00
		Seepage	0.72				
		Slope	0.68				
296618							
Oquaga	85	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.86	Depth to water	1.00
		Depth to bedrock	0.86				
		Seepage	0.72				
296619							
Oquaga	45	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.86	Depth to water	1.00
		Depth to bedrock	0.86				
		Seepage	0.72				
Lordstown	20	Very limited		Very limited		Very limited	
		Slope	1.00	Piping	1.00	Depth to water	1.00
		Depth to bedrock	0.86	Thin layer	0.86		
		Seepage	0.72	Large stones	0.10		
296621							
Quarries	100	Not rated		Not rated		Not rated	
296622							
Rexford, poorly drained	45	Very limited		Very limited		Very limited	
		Seepage	1.00	Depth to saturated zone	1.00	Depth to water	1.00
Rexford, somewhat poorly drained	40	Very limited		Very limited		Very limited	
		Seepage	1.00	Depth to saturated zone	1.00	Depth to water	1.00

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296623							
Rock outcrop	70	Not rated		Not rated		Not rated	
Arnot	20	Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Thin layer	1.00	Depth to water	1.00
		Slope	1.00				
296625							
Swartswood	90	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Depth to saturated zone	0.95	Depth to water	1.00
		Seepage	0.72				
296628							
Swartswood	90	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Depth to saturated zone	0.95	Depth to water	1.00
		Seepage	0.72	Large stones	0.06		
296630							
Volusia	75	Somewhat limited		Very limited		Very limited	
		Slope	0.68	Depth to saturated zone	1.00	Depth to water	1.00
				Piping	1.00		
296632							
Volusia	75	Somewhat limited		Very limited		Very limited	
		Slope	0.08	Depth to saturated zone	1.00	Depth to water	1.00
				Piping	1.00		
296633							
Volusia	90	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
				Piping	1.00		
296634							
Wellsboro	80	Somewhat limited		Very limited		Very limited	
		Seepage	0.72	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	0.68				
296635							
Wellsboro	85	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.72				
296636							
Wellsboro		Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.72				
296637							
Wellsboro	80	Somewhat limited		Very limited		Very limited	
		Seepage	0.72	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	0.68				
296638							
Wellsboro	85	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.72				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
296639							
Wellsboro	70	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to	1.00	Depth to water	1.00
		Seepage	0.72	saturated zone			
Mardin	20	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to	1.00	Depth to water	1.00
		Seepage	0.72	saturated zone			
296640							
Wyoming	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	0.68				
296641							
Wyoming	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
296642							
Wyoming	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
296643							
Wyoming	90	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
296644							
Water	100	Not rated		Not rated		Not rated	
297185							
Edgemere	42	Somewhat limited		Very limited		Very limited	
		Seepage	0.72	Ponding	1.00	Depth to water	1.00
		Slope	0.68	Depth to	1.00		
				saturated zone			
Shohola	42	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to	1.00	Depth to water	1.00
		Seepage	0.72	saturated zone			
297186							
Edgemere	75	Somewhat limited		Very limited		Very limited	
		Seepage	0.72	Ponding	1.00	Depth to water	1.00
				Depth to	1.00		
				saturated zone			
297188							
Manlius	40	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.86	Depth to water	1.00
		Depth to bedrock	0.86	Seepage	0.07		
		Seepage	0.72				
Arnot	35	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00	Large stones	0.10		
Rock outcrop	15	Not rated		Not rated		Not rated	

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297189							
Manlius	40	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.86	Depth to water	1.00
		Depth to bedrock	0.86	Seepage	0.07		
		Seepage	0.72				
Arnot	35	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00	Large stones	0.10		
Rock outcrop	15	Not rated		Not rated		Not rated	
297190							
Braceville	82	Very limited		Very limited		Very limited	
		Seepage	1.00	Depth to saturated zone	1.00	Depth to water	1.00
297191							
Wyalusing	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Depth to saturated zone	1.00	Unstable excavation walls	1.00
				Seepage	0.13		
297192							
Pope	95	Very limited		Not limited		Very limited	
		Seepage	1.00			Depth to water	1.00
297193							
Paupack	90	Very limited		Very limited		Somewhat limited	
		Seepage	1.00	Ponding	1.00	Unstable excavation walls	0.50
				Depth to saturated zone	1.00		
				Seepage	1.00		
297194							
Morris	82	Somewhat limited		Very limited		Very limited	
		Slope	0.08	Depth to saturated zone	1.00	Depth to water	1.00
297196							
Freetown	94	Very limited		Not rated		Somewhat limited	
		Seepage	1.00			Unstable excavation walls	0.10
297199							
Oquaga	78	Somewhat limited		Somewhat limited		Very limited	
		Depth to bedrock	0.81	Thin layer	0.81	Depth to water	1.00
		Seepage	0.72	Large stones	0.07		
		Slope	0.08				
297200							
Oquaga	78	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.81	Depth to water	1.00
		Depth to bedrock	0.81	Large stones	0.07		
		Seepage	0.72				
297201							
Oquaga	75	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.81	Depth to water	1.00
		Depth to bedrock	0.81	Large stones	0.02		
		Seepage	0.72				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297202							
Oquaga	40	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.81	Depth to water	1.00
		Depth to bedrock	0.81	Large stones	0.35		
		Seepage	0.72				
Arnot	30	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
Rock outcrop	20	Not rated		Not rated		Not rated	
297203							
Delaware	93	Very limited		Not limited		Very limited	
		Seepage	1.00			Depth to water	1.00
297204							
Delaware	82	Very limited		Not limited		Very limited	
		Seepage	1.00			Depth to water	1.00
		Slope	0.68				
297205							
Delaware	80	Very limited		Not limited		Very limited	
		Seepage	1.00			Depth to water	1.00
		Slope	1.00				
297207							
Wurtsboro	92	Somewhat limited		Very limited		Very limited	
		Seepage	0.72	Depth to	1.00	Depth to water	1.00
		Slope	0.08	saturated zone			
297208							
Wurtsboro	92	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to	1.00	Depth to water	1.00
		Seepage	0.72	saturated zone			
297209							
Philo	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Piping	1.00	Unstable excavation walls	1.00
				Depth to saturated zone	0.95	Depth to saturated zone	0.02
297210							
Barbour	85	Very limited		Not limited		Very limited	
		Seepage	1.00			Unstable excavation walls	1.00
						Depth to saturated zone	0.96
297211							
Wellsboro	89	Somewhat limited		Very limited		Very limited	
		Seepage	0.72	Depth to	1.00	Depth to water	1.00
		Slope	0.08	saturated zone			
297212							
Wellsboro	89	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to	1.00	Depth to water	1.00
		Seepage	0.72	saturated zone			

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297213							
Wellsboro	82	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.72				
297215							
Wellsboro	91	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.72				
297216							
Wurtsboro	92	Somewhat limited		Very limited		Very limited	
		Seepage	0.72	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	0.08				
297217							
Wurtsboro	88	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.72				
297218							
Wurtsboro	88	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.72				
297221							
Lackawanna	81	Somewhat limited		Somewhat limited		Very limited	
		Seepage	0.72	Depth to saturated zone	0.95	Depth to water	1.00
		Slope	0.68				
297223							
Lackawanna	75	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Depth to saturated zone	0.95	Depth to water	1.00
		Seepage	0.72				
297224							
Swartswood	95	Somewhat limited		Somewhat limited		Very limited	
		Seepage	0.72	Depth to saturated zone	0.86	Depth to water	1.00
		Slope	0.08				
297225							
Swartswood	95	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Depth to saturated zone	0.86	Depth to water	1.00
		Seepage	0.72				
297226							
Swartswood	90	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Depth to saturated zone	0.86	Depth to water	1.00
		Seepage	0.72				
297227							
Arnot	88	Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Thin layer	1.00	Depth to water	1.00
		Slope	1.00				
297228							
Arnot	85	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297229							
Wyoming	90	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	0.32	Large stones	0.26		
297230							
Wyoming	90	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
297231							
Wyoming	90	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00	Large stones	0.53		
297236							
Suncook	91	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
297239							
Mardin	85	Somewhat limited		Very limited		Very limited	
		Seepage	0.72	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	0.08				
297240							
Mardin	85	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.72				
297241							
Unadilla	90	Somewhat limited		Very limited		Very limited	
		Seepage	0.72	Piping	1.00	Depth to water	1.00
297242							
Shohola	62	Somewhat limited		Very limited		Very limited	
		Seepage	0.72	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	0.08				
Edgemere	29	Somewhat limited		Very limited		Very limited	
		Seepage	0.72	Ponding	1.00	Depth to water	1.00
		Slope	0.08	Depth to saturated zone	1.00		
297243							
Shohola	62	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.72				
Edgemere	29	Very limited		Very limited		Very limited	
		Slope	1.00	Ponding	1.00	Depth to water	1.00
		Seepage	0.72	Depth to saturated zone	1.00		
297244							
Lordstown	40	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.86	Piping	1.00	Depth to water	1.00
		Seepage	0.72	Thin layer	0.86		
		Slope	0.08				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297244							
Swartswood	35	Somewhat limited		Somewhat limited		Very limited	
		Seepage	0.72	Depth to saturated zone	0.86	Depth to water	1.00
		Slope	0.08				
297245							
Lordstown	40	Very limited		Very limited		Very limited	
		Slope	1.00	Piping	1.00	Depth to water	1.00
		Depth to bedrock	0.86	Thin layer	0.86		
		Seepage	0.72				
Swartswood	35	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Depth to saturated zone	0.86	Depth to water	1.00
		Seepage	0.72				
297246							
Lordstown	40	Very limited		Very limited		Very limited	
		Slope	1.00	Piping	1.00	Depth to water	1.00
		Depth to bedrock	0.86	Thin layer	0.86		
		Seepage	0.72				
Swartswood	35	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Depth to saturated zone	0.86	Depth to water	1.00
		Seepage	0.72				
297247							
Chenango	86	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	0.08				
297248							
Chenango	85	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
297249							
Chenango	90	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	1.00				
297250							
Lordstown	94	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.86	Piping	1.00	Depth to water	1.00
		Seepage	0.72	Thin layer	0.86		
		Slope	0.68				
297251							
Lordstown	86	Very limited		Very limited		Very limited	
		Slope	1.00	Piping	1.00	Depth to water	1.00
		Depth to bedrock	0.86	Thin layer	0.86		
		Seepage	0.72				
297253							
Craigsville	50	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
				Large stones	0.99		
Wyoming	40	Very limited		Very limited		Very limited	
		Seepage	1.00	Seepage	1.00	Depth to water	1.00
		Slope	0.08				

Table 13.--Ponds and Embankments--Continued

Map unit symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
297254							
Pits, shale	40	Very limited		Not rated		Not rated	
		Depth to bedrock	1.00				
		Slope	1.00				
Pits, gravel	40	Not rated		Not rated		Not rated	
309440							
Edgemere	42	Somewhat limited		Very limited		Very limited	
		Seepage	0.72	Ponding	1.00	Depth to water	1.00
		Slope	0.68	Depth to saturated zone	1.00		
Shohola	42	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to saturated zone	1.00	Depth to water	1.00
		Seepage	0.72				
319863							
Oquaga	40	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.81	Depth to water	1.00
		Depth to bedrock	0.81	Large stones	0.35		
		Seepage	0.72				
Arnot	30	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00				
Rock outcrop	20	Not rated		Not rated		Not rated	
319865							
Wellsboro	89	Somewhat limited		Very limited		Very limited	
		Seepage	0.72	Depth to saturated zone	1.00	Depth to water	1.00
		Slope	0.08				
741008							
Oquaga	78	Somewhat limited		Somewhat limited		Very limited	
		Depth to bedrock	0.81	Thin layer	0.81	Depth to water	1.00
		Seepage	0.72	Large stones	0.07		
		Slope	0.08				

Table 14.--Engineering Properties

[Absence of an entry indicates that data were not estimated]

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290457												
Barbour	0-6	Loam	CL-ML, ML, SC-SM, SM	A-4, A-2	0	0	65-100	50-100	35-95	20-90	15-25	2-7
	6-18	Silt loam, fine sandy loam, gravelly loam	CL-ML, ML, SC-SM, SM	A-4, A-2, A-1	0	0	65-100	50-100	35-95	20-90	15-25	2-7
	18-26	Gravelly loam	SC-SM, ML, CL-ML, SM	A-4, A-2, A-1	0	0	60-100	50-100	35-95	20-85	15-25	2-7
	26-72	Very gravelly loamy sand, very gravelly sand, gravelly loamy fine sand	SP-SM, GM, GP, SM, SP	A-1, A-2, A-3	0-1	0-5	45-100	30-100	15-80	0-35	0-14	NP
290461												
Bath	0-9	Channery silt loam	ML, GM, SM	A-4, A-2	0	0-15	65-92	50-85	40-80	30-70	30-40	5-10
	9-20	Channery loam, gravelly loam, silt loam, channery silt loam	GM, ML, SM	A-4, A-2	0	0-15	65-92	50-85	40-80	30-70	20-35	NP-7
	20-26	Channery loam, gravelly sandy loam, channery silt loam	SM, ML, GM, GC-GM	A-4, A-2	0	0-15	65-92	50-85	35-80	20-70	15-30	NP-6
	26-72	Very channery silt loam, very channery loam	GM, GW-GM, CL-ML, SC-SM	A-4, A-2	0-8	0-20	45-90	30-75	20-70	10-65	0-25	NP-6
290465												
Cadosia	0-6	Extremely channery loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	1-5	5-15	40-85	20-70	10-65	5-60	15-25	1-10
	6-23	Very channery silt loam, very channery loam, channery loam, very channery fine sandy loam	GC-GM, GM, SC-SM	A-4, A-2	2-8	5-25	40-85	20-70	10-65	5-60	10-25	NP-10
	23-32	Very channery loam, extremely channery loam	GM, GC-GM, SM	A-2, A-1, A-4	2-8	5-30	40-85	20-70	10-65	5-60	10-20	NP-5
	32-58	Extremely channery loam, very channery silt loam, very channery loam	GM, GC-GM, SM	A-1, A-2, A-4	2-8	5-30	40-85	20-70	10-65	5-60	10-20	NP-5
	58-72	Very flaggy loam, very flaggy sandy loam, extremely flaggy sandy loam, extremely gravelly sandy loam	GW-GM, GC-GM, GM	A-1, A-2, A-4	2-15	5-30	40-85	20-70	10-65	5-50	10-20	NP-5

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290466												
Cadosia---------	0-6	Extremely channery loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	1-5	5-15	40-85	20-70	10-65	5-60	15-25	1-10
	6-23	Very channery silt loam, very channery loam, channery loam, very channery fine sandy loam	GC-GM, GM, SC-SM	A-4, A-2	2-8	5-25	40-85	20-70	10-65	5-60	10-25	NP-10
	23-32	Very channery loam, extremely channery loam	GM, GC-GM, SM	A-2, A-1, A-4	2-8	5-30	40-85	20-70	10-65	5-60	10-20	NP-5
	32-58	Extremely channery loam, very channery silt loam, very channery loam	GM, GC-GM, SM	A-1, A-2, A-4	2-8	5-30	40-85	20-70	10-65	5-60	10-20	NP-5
	58-72	Very flaggy loam, very flaggy sandy loam, extremely flaggy sandy loam, extremely gravelly sandy loam	GW-GM, GC-GM, GM	A-1, A-2, A-4	2-15	5-30	40-85	20-70	10-65	5-50	10-20	NP-5
290468												
Chenango---------	0-10	Gravelly silt loam	CL-ML, GM, ML, SM	A-4, A-2, A-1	0	0-15	50-92	35-85	15-80	10-70	0-35	NP-10
	10-21	Very gravelly silt loam	GC-GM	A-4	0	0-15	45-90	30-75	15-70	10-65	0-40	NP-10
	21-25	Very gravelly sandy loam, gravelly fine sandy loam, very gravelly silt loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	0	0-15	45-90	30-75	15-70	10-65	0-40	NP-10
	25-72	Very gravelly loamy coarse sand, very gravelly sand, gravelly loamy fine sand, very gravelly loamy sand	GW-GM, GM, GW, SM	A-1	0	2-15	40-75	20-60	10-45	0-20	0-14	NP
290483												
Fluvaquents------	0-8	Gravelly silt loam	SC, CL, GM, ML, SM	A-4, A-2, A-1	0	0-10	60-100	55-100	30-100	10-90	0-25	NP-15
	8-72	Gravelly sand, very gravelly silt loam, silty clay loam	GC, CL, GM, ML, SC-SM	A-4, A-1, A-2, A-6	0	0-15	35-100	30-100	15-100	5-90	0-30	NP-20
Udifluvents------	0-8	Gravelly loam	SC, CL, GM, ML, SM	A-4, A-2, A-1	0	0-10	60-80	55-75	30-75	10-65	0-25	NP-20
	8-72	Gravelly sand, very gravelly loam	GC, CL, GM, ML	A-4, A-2, A-1, A-6	0	0-15	35-100	30-100	15-100	5-90	0-30	NP-20

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290484												
Halcott	0-3	Channery loam	SM, GM	A-4, A-2, A-5	0-5	0-20	50-90	35-75	20-70	10-65	35-45	1-9
	3-11	Very channery silt loam	GM	A-4, A-2, A-5	0-5	2-20	40-80	20-70	15-65	10-60	35-45	1-9
	11-18	Very channery silt loam, very channery loam, very channery fine sandy loam	GM	A-2, A-4, A-5	0-5	2-20	40-80	20-70	15-65	10-60	35-45	1-9
	18-28	Bedrock	---	---	0	0	---	---	---	---	---	---
Mongaup	0-5	Channery loam	SM, ML	A-4, A-2	0-5	0-15	60-95	50-92	30-90	15-80	0-20	NP-5
	5-12	Channery silt loam	ML, GM, SM	A-4, A-2, A-1	0-5	0-10	60-95	50-92	35-90	20-80	0-20	NP-5
	12-20	Gravelly loam, sandy loam, channery silt loam	GM, ML, SM	A-4, A-2, A-1	0-5	0-10	60-95	50-92	35-90	20-80	0-20	NP-5
	20-28	Very channery silt loam	GM, ML, SM	A-2, A-1, A-4	0-5	0-10	50-90	35-75	20-70	10-65	0-20	NP-5
	28-38	Bedrock	---	---	0	0	---	---	---	---	---	---
Vly	0-6	Channery silt loam	ML, GM, SM	A-4, A-2, A-5	0	0-15	60-85	50-70	40-70	30-65	35-45	1-9
	6-18	Extremely channery loam, very channery silt loam, very gravelly loam	GC-GM, GM, SM	A-4, A-2, A-1	0-1	2-20	45-80	25-50	15-50	10-45	20-30	1-9
	18-24	Very channery silt loam	GC-GM, GM, SM	A-2, A-1, A-4	0-1	2-20	45-80	25-50	15-50	10-45	20-30	1-9
	24-31	Extremely channery silt loam	GC-GM, GM, SM	A-1, A-2, A-4	0-1	2-25	45-80	25-50	15-50	10-45	20-30	1-9
	31-41	Bedrock	---	---	0	0	---	---	---	---	---	---
290485												
Halcott	0-3	Channery loam	SM, GM	A-4, A-2, A-5	0-5	0-20	50-90	35-75	20-70	10-65	35-45	1-9
	3-11	Very channery silt loam	GM	A-4, A-2, A-5	0-5	2-20	40-80	20-70	15-65	10-60	35-45	1-9
	11-18	Very channery silt loam, very channery loam, very channery fine sandy loam	GM	A-2, A-4, A-5	0-5	2-20	40-80	20-70	15-65	10-60	35-45	1-9
	18-28	Bedrock	---	---	0	0	---	---	---	---	---	---
Mongaup	0-5	Channery loam	SM, ML	A-4, A-2	0-5	0-15	60-95	50-92	30-90	15-80	0-20	NP-5
	5-12	Channery silt loam	ML, GM, SM	A-4, A-2, A-1	0-5	0-10	60-95	50-92	35-90	20-80	0-20	NP-5
	12-20	Gravelly loam, sandy loam, channery silt loam	GM, ML, SM	A-4, A-2, A-1	0-5	0-10	60-95	50-92	35-90	20-80	0-20	NP-5
	20-28	Very channery silt loam	GM, ML, SM	A-2, A-1, A-4	0-5	0-10	50-90	35-75	20-70	10-65	0-20	NP-5
	28-38	Bedrock	---	---	0	0	---	---	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290485												
Vly	0-6	Channery silt loam	ML, GM, SM	A-4, A-2, A-5	0	0-15	60-85	50-70	40-70	30-65	35-45	1-9
	6-18	Extremely channery loam, very channery silt loam, very gravelly loam	GC-GM, GM, SM	A-4, A-2, A-1	0-1	2-20	45-80	25-50	15-50	10-45	20-30	1-9
	18-24	Very channery silt loam	GC-GM, GM, SM	A-2, A-1, A-4	0-1	2-20	45-80	25-50	15-50	10-45	20-30	1-9
	24-31	Extremely channery silt loam	GC-GM, GM, SM	A-1, A-2, A-4	0-1	2-25	45-80	25-50	15-50	10-45	20-30	1-9
	31-41	Bedrock	---	---	0	0	---	---	---	---	---	---
290487												
Lackawanna	0-7	Flaggy silt loam	ML, GM, SM	A-4, A-2	0-1	0-20	60-92	45-85	35-80	25-70	0-14	---
	7-18	Flaggy silt loam, silt loam, channery silt loam	CL, GM, ML, SM	A-4, A-2, A-6	0-1	0-20	60-92	45-85	35-80	25-70	20-35	1-14
	18-28	Flaggy silt loam	CL, GM, ML, SM	A-4, A-2, A-6	0-1	0-20	60-92	45-85	35-80	25-70	20-35	1-14
	28-48	Flaggy silt loam	CL-ML, CL, GM, ML, SM	A-4, A-2, A-6	0-2	0-20	45-90	25-75	15-70	10-65	15-35	1-12
	48-72	Flaggy loam, channery silt loam, very channery sandy loam	SC-SM, CL, GM, ML, SM	A-4, A-2, A-6	0-2	0-20	45-90	25-75	15-70	10-65	15-35	1-12
290488												
Lackawanna	0-7	Flaggy silt loam	ML, GM, SM	A-4, A-2	0-1	0-20	60-92	45-85	35-80	25-70	0-14	---
	7-18	Flaggy silt loam, silt loam, channery silt loam	CL, GM, ML, SM	A-4, A-2, A-6	0-1	0-20	60-92	45-85	35-80	25-70	20-35	1-14
	18-28	Flaggy silt loam	CL, GM, ML, SM	A-4, A-2, A-6	0-1	0-20	60-92	45-85	35-80	25-70	20-35	1-14
	28-48	Flaggy silt loam	CL-ML, CL, GM, ML, SM	A-4, A-2, A-6	0-2	0-20	45-90	25-75	15-70	10-65	15-35	1-12
	48-72	Flaggy loam, channery silt loam, very channery sandy loam	SC-SM, CL, GM, ML, SM	A-4, A-2, A-6	0-2	0-20	45-90	25-75	15-70	10-65	15-35	1-12

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290489												
Lackawanna------	0-7	Flaggy silt loam	ML, GM, SM	A-4, A-2	0-1	0-20	60-92	45-85	35-80	25-70	0-14	---
	7-18	Flaggy silt loam, silt loam, channery silt loam	CL, GM, ML, SM	A-4, A-2, A-6	0-1	0-20	60-92	45-85	35-80	25-70	20-35	1-14
	18-28	Flaggy silt loam	CL, GM, ML, SM	A-4, A-2, A-6	0-1	0-20	60-92	45-85	35-80	25-70	20-35	1-14
	28-48	Flaggy silt loam	CL-ML, CL, GM, ML, SM	A-4, A-2, A-6	0-2	0-20	45-90	25-75	15-70	10-65	15-35	1-12
	48-72	Flaggy loam, channery silt loam, very channery sandy loam	SC-SM, CL, GM, ML, SM	A-4, A-2, A-6	0-2	0-20	45-90	25-75	15-70	10-65	15-35	1-12
290490												
Lackawanna------	0-7	Flaggy silt loam	ML, GM, SM	A-4, A-2	0-1	0-20	60-92	45-85	35-80	25-70	0-14	---
	7-18	Flaggy silt loam, silt loam, channery silt loam	CL, GM, ML, SM	A-4, A-2, A-6	0-1	0-20	60-92	45-85	35-80	25-70	20-35	1-14
	18-28	Flaggy silt loam	CL, GM, ML, SM	A-4, A-2, A-6	0-1	0-20	60-92	45-85	35-80	25-70	20-35	1-14
	28-48	Flaggy silt loam	CL-ML, CL, GM, ML, SM	A-4, A-2, A-6	0-2	0-20	45-90	25-75	15-70	10-65	15-35	1-12
	48-72	Flaggy loam, channery silt loam, very channery sandy loam	SC-SM, CL, GM, ML, SM	A-4, A-2, A-6	0-2	0-20	45-90	25-75	15-70	10-65	15-35	1-12
290491												
Lackawanna------	0-7	Flaggy silt loam	ML, GM, SM	A-4, A-2	0-1	0-20	60-92	45-85	35-80	25-70	0-14	---
	7-18	Flaggy silt loam, silt loam, channery silt loam	CL, GM, ML, SM	A-4, A-2, A-6	0-1	0-20	60-92	45-85	35-80	25-70	20-35	1-14
	18-28	Flaggy silt loam	CL, GM, ML, SM	A-4, A-2, A-6	0-1	0-20	60-92	45-85	35-80	25-70	20-35	1-14
	28-48	Flaggy silt loam	CL-ML, CL, GM, ML, SM	A-4, A-2, A-6	0-2	0-20	45-90	25-75	15-70	10-65	15-35	1-12
	48-72	Flaggy loam, channery silt loam, very channery sandy loam	SC-SM, CL, GM, ML, SM	A-4, A-2, A-6	0-2	0-20	45-90	25-75	15-70	10-65	15-35	1-12

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290491												
Bath	0-9	Channery silt loam	ML, GM, SM	A-4, A-2	0	0-15	65-92	50-85	40-80	30-70	30-40	5-10
	9-20	Channery loam, gravelly loam, silt loam, channery silt loam	GM, ML, SM	A-4, A-2	0	0-15	65-92	50-85	40-80	30-70	20-35	NP-7
	20-26	Channery loam, gravelly sandy loam, channery silt loam	SM, ML, GM, GC-GM	A-4, A-2	0	0-15	65-92	50-85	35-80	20-70	15-30	NP-6
	26-72	Very channery silt loam, very channery loam	GM, GW-GM, CL-ML, SC-SM	A-4, A-2	0-8	0-20	45-90	30-75	20-70	10-65	0-25	NP-6
290492												
Lackawanna	0-7	Flaggy silt loam	ML, GM, SM	A-4, A-2	0-1	0-20	60-92	45-85	35-80	25-70	0-14	---
	7-18	Flaggy silt loam, silt loam, channery silt loam	CL, GM, ML, SM	A-4, A-2, A-6	0-1	0-20	60-92	45-85	35-80	25-70	20-35	1-14
	18-28	Flaggy silt loam	CL, GM, ML, SM	A-4, A-2, A-6	0-1	0-20	60-92	45-85	35-80	25-70	20-35	1-14
	28-48	Flaggy silt loam	CL-ML, CL, GM, ML, SM	A-4, A-2, A-6	0-2	0-20	45-90	25-75	15-70	10-65	15-35	1-12
	48-72	Flaggy loam, channery silt loam, very channery sandy loam	SC-SM, CL, GM, ML, SM	A-4, A-2, A-6	0-2	0-20	45-90	25-75	15-70	10-65	15-35	1-12
Bath	0-9	Channery silt loam	ML, GM, SM	A-4, A-2	0	0-15	65-92	50-85	40-80	30-70	30-40	5-10
	9-20	Channery loam, gravelly loam, silt loam, channery silt loam	GM, ML, SM	A-4, A-2	0	0-15	65-92	50-85	40-80	30-70	20-35	NP-7
	20-26	Channery loam, gravelly sandy loam, channery silt loam	SM, ML, GM, GC-GM	A-4, A-2	0	0-15	65-92	50-85	35-80	20-70	15-30	NP-6
	26-72	Very channery silt loam, very channery loam	GM, GW-GM, CL-ML, SC-SM	A-4, A-2	0-8	0-20	45-90	30-75	20-70	10-65	0-25	NP-6

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290493												
Lackawanna------	0-7	Flaggy silt loam	ML, GM, SM	A-4, A-2	0-1	0-20	60-92	45-85	35-80	25-70	0-14	---
	7-18	Flaggy silt loam, silt loam, channery silt loam	CL, GM, ML, SM	A-4, A-2, A-6	0-1	0-20	60-92	45-85	35-80	25-70	20-35	1-14
	18-28	Flaggy silt loam	CL, GM, ML, SM	A-4, A-2, A-6	0-1	0-20	60-92	45-85	35-80	25-70	20-35	1-14
	28-48	Flaggy silt loam	CL-ML, CL, GM, ML, SM	A-4, A-2, A-6	0-2	0-20	45-90	25-75	15-70	10-65	15-35	1-12
	48-72	Flaggy loam, channery silt loam, very channery sandy loam	SC-SM, CL, GM, ML, SM	A-4, A-2, A-6	0-2	0-20	45-90	25-75	15-70	10-65	15-35	1-12
Bath----------	0-9	Channery silt loam	ML, GM, SM	A-4, A-2	0	0-15	65-92	50-85	40-80	30-70	30-40	5-10
	9-20	Channery loam, gravelly loam, silt loam, channery silt loam	GM, ML, SM	A-4, A-2	0	0-15	65-92	50-85	40-80	30-70	20-35	NP-7
	20-26	Channery loam, gravelly sandy loam, channery silt loam	SM, ML, GM, GC-GM	A-4, A-2	0	0-15	65-92	50-85	35-80	20-70	15-30	NP-6
	26-72	Very channery silt loam, very channery loam	GM, GW-GM, CL-ML, SC-SM	A-4, A-2	0-8	0-20	45-90	30-75	20-70	10-65	0-25	NP-6
290506												
Lordstown-------	0-3	Channery silt loam	ML, GM, SM	A-4	0	0-15	65-92	50-85	40-80	30-70	0-30	NP-4
	3-6	Channery silt loam	ML, GM, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	6-19	Channery silt loam	ML, GM, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	19-27	Channery loam, very channery loam	GM, ML, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	27-32	Gravelly loam	GM, ML, SM	A-4, A-2, A-1	0	0-25	45-85	30-70	25-70	20-65	0-30	NP-4
	32-42	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
290507												
Lordstown-------	0-3	Channery silt loam	ML, GM, SM	A-4	0	0-15	65-92	50-85	40-80	30-70	0-30	NP-4
	3-6	Channery silt loam	ML, GM, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	6-19	Channery silt loam	ML, GM, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	19-27	Channery loam, very channery loam	GM, ML, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	27-32	Gravelly loam	GM, ML, SM	A-4, A-2, A-1	0	0-25	45-85	30-70	25-70	20-65	0-30	NP-4
	32-42	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290509												
Lordstown-------	0-3	Channery silt loam	ML, GM, SM	A-4	0	0-15	65-92	50-85	40-80	30-70	0-30	NP-4
	3-6	Channery silt loam	ML, GM, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	6-19	Channery silt loam	ML, GM, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	19-27	Channery loam, very channery loam	GM, ML, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	27-32	Gravelly loam	GM, ML, SM	A-4, A-2, A-1	0	0-25	45-85	30-70	25-70	20-65	0-30	NP-4
	32-42	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
290510												
Maplecrest------	0-3	Gravelly silt loam	ML, GM, GC-GM	A-4, A-2, A-6	0-1	0-5	65-95	50-92	40-90	30-80	20-40	1-12
	3-6	Gravelly silt loam	CL-ML, GC-GM, GM, ML	A-4, A-2	0-1	0-10	65-95	50-92	40-90	30-80	15-25	1-7
	6-18	Gravelly silt loam	CL-ML, GC-GM, GM, ML	A-4, A-2	0-5	0-10	65-95	50-92	40-90	25-80	15-25	1-7
	18-36	Gravelly very fine sandy loam	SC-SM, GC-GM, GM, ML	A-2, A-4	0-5	0-10	65-92	50-90	40-90	25-80	15-25	1-7
	36-46	Gravelly loam	SC-SM, GC-GM, GM, ML	A-2, A-4	0-5	0-20	40-85	20-70	15-70	10-65	15-25	1-7
	46-72	Gravelly fine sandy loam	SM, GM, GC-GM	A-2, A-1, A-4	0-5	0-20	40-85	20-70	10-65	5-50	15-25	NP-7
290511												
Maplecrest------	0-3	Gravelly silt loam	ML, GM, GC-GM	A-4, A-2, A-6	0-1	0-5	65-95	50-92	40-90	30-80	20-40	1-12
	3-6	Gravelly silt loam	CL-ML, GC-GM, GM, ML	A-4, A-2	0-1	0-10	65-95	50-92	40-90	30-80	15-25	1-7
	6-18	Gravelly silt loam	CL-ML, GC-GM, GM, ML	A-4, A-2	0-5	0-10	65-95	50-92	40-90	25-80	15-25	1-7
	18-36	Gravelly very fine sandy loam	SC-SM, GC-GM, GM, ML	A-2, A-4	0-5	0-10	65-92	50-90	40-90	25-80	15-25	1-7
	36-46	Gravelly loam	SC-SM, GC-GM, GM, ML	A-2, A-4	0-5	0-20	40-85	20-70	15-70	10-65	15-25	1-7
	46-72	Gravelly fine sandy loam	SM, GM, GC-GM	A-2, A-1, A-4	0-5	0-20	40-85	20-70	10-65	5-50	15-25	NP-7

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290512												
Maplecrest------	0-3	Gravelly silt loam	ML, GM, GC-GM	A-4, A-2, A-6	0-1	0-5	65-95	50-92	40-90	30-80	20-40	1-12
	3-6	Gravelly silt loam	CL-ML, GC-GM, GM, ML	A-4, A-2	0-1	0-10	65-95	50-92	40-90	30-80	15-25	1-7
	6-18	Gravelly silt loam	CL-ML, GC-GM, GM, ML	A-4, A-2	0-5	0-10	65-95	50-92	40-90	25-80	15-25	1-7
	18-36	Gravelly very fine sandy loam	SC-SM, GC-GM, GM, ML	A-2, A-4	0-5	0-10	65-92	50-90	40-90	25-80	15-25	1-7
	36-46	Gravelly loam	SC-SM, GC-GM, GM, ML	A-2, A-4	0-5	0-20	40-85	20-70	15-70	10-65	15-25	1-7
	46-72	Gravelly fine sandy loam	SM, GM, GC-GM	A-2, A-1, A-4	0-5	0-20	40-85	20-70	10-65	5-50	15-25	NP-7
290514												
Mardin----------	0-5	Channery silt loam	CL, GC, GM, ML	A-4	0-1	0-15	65-95	50-92	40-90	30-80	25-35	5-10
	5-14	Channery silt loam	CL, CL-ML, GC, SC-SM	A-4	0-1	0-15	65-95	50-92	40-90	30-80	15-25	5-10
	14-23	Channery silt loam	GC, CL-ML, CL, SC-SM	A-4	0-1	0-15	65-95	50-92	40-90	30-80	15-25	5-10
	23-26	Channery loam	GC, CL-ML, CL, SC-SM	A-4	0-1	0-15	65-95	50-92	35-90	20-80	15-25	5-10
	26-52	Very channery loam	GC, CL-ML, CL, SC	A-2, A-4, A-1	0-5	0-25	45-90	30-75	25-70	20-65	20-30	5-10
	52-72	Very channery loam	GC, CL-ML, CL, SC	A-2, A-4, A-1	0-5	0-25	45-90	30-75	25-70	20-65	20-30	5-10
290515												
Mardin----------	0-5	Channery silt loam	CL, GC, GM, ML	A-4	0-1	0-15	65-95	50-92	40-90	30-80	25-35	5-10
	5-14	Channery silt loam	CL, CL-ML, GC, SC-SM	A-4	0-1	0-15	65-95	50-92	40-90	30-80	15-25	5-10
	14-23	Channery silt loam	GC, CL-ML, CL, SC-SM	A-4	0-1	0-15	65-95	50-92	40-90	30-80	15-25	5-10
	23-26	Channery loam	GC, CL-ML, CL, SC-SM	A-4	0-1	0-15	65-95	50-92	35-90	20-80	15-25	5-10
	26-52	Very channery loam	GC, CL-ML, CL, SC	A-2, A-4, A-1	0-5	0-25	45-90	30-75	25-70	20-65	20-30	5-10
	52-72	Very channery loam	GC, CL-ML, CL, SC	A-2, A-4, A-1	0-5	0-25	45-90	30-75	25-70	20-65	20-30	5-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290519												
Mongaup	0-5	Channery loam	SM, ML	A-4, A-2	0-5	0-15	60-95	50-92	30-90	15-80	0-20	NP-5
	5-12	Channery silt loam	ML, GM, SM	A-4, A-2, A-1	0-5	0-10	60-95	50-92	35-90	20-80	0-20	NP-5
	12-20	Gravelly loam, sandy loam, channery silt loam	GM, ML, SM	A-4, A-2, A-1	0-5	0-10	60-95	50-92	35-90	20-80	0-20	NP-5
	20-28	Very channery silt loam	GM, ML, SM	A-2, A-1, A-4	0-5	0-10	50-90	35-75	20-70	10-65	0-20	NP-5
	28-38	Bedrock	---	---	0	0	---	---	---	---	---	---
290522												
Morris	0-8	Flaggy silt loam	CL-ML, CL, GM, ML, SM	A-4, A-2	0-1	0-20	60-92	45-85	35-80	25-70	20-30	1-10
	8-14	Channery silt loam	CL-ML, GM, SM	A-4	0-5	0-20	60-92	45-85	35-80	25-70	15-25	NP-10
	14-26	Channery silt loam	CL-ML, CL, GM, ML, SM	A-4, A-2	0-5	0-20	50-90	35-75	25-70	20-65	15-25	NP-9
	26-72	Flaggy silt loam, channery silt loam, channery silty clay loam	CL-ML, CL, GM, ML, SM	A-4, A-2	0-5	0-20	50-90	35-75	25-70	20-65	15-25	NP-9
290523												
Morris	0-8	Flaggy silt loam	CL-ML, CL, GM, ML, SM	A-4, A-2	0-1	0-20	60-92	45-85	35-80	25-70	20-30	1-10
	8-14	Channery silt loam	CL-ML, GM, SM	A-4	0-5	0-20	60-92	45-85	35-80	25-70	15-25	NP-10
	14-26	Channery silt loam	CL-ML, CL, GM, ML, SM	A-4, A-2	0-5	0-20	50-90	35-75	25-70	20-65	15-25	NP-9
	26-72	Flaggy silt loam, channery silt loam, channery silty clay loam	CL-ML, CL, GM, ML, SM	A-4, A-2	0-5	0-20	50-90	35-75	25-70	20-65	15-25	NP-9
290525												
Morris	0-8	Flaggy silt loam	CL-ML, CL, GM, ML, SM	A-4, A-2	0-1	0-20	60-92	45-85	35-80	25-70	20-30	1-10
	8-14	Channery silt loam	CL-ML, GM, SM	A-4	0-5	0-20	60-92	45-85	35-80	25-70	15-25	NP-10
	14-26	Channery silt loam	CL-ML, CL, GM, ML, SM	A-4, A-2	0-5	0-20	50-90	35-75	25-70	20-65	15-25	NP-9
	26-72	Flaggy silt loam, channery silt loam, channery silty clay loam	CL-ML, CL, GM, ML, SM	A-4, A-2	0-5	0-20	50-90	35-75	25-70	20-65	15-25	NP-9

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290525												
Volusia	0-8	Channery silt loam	CL, CL-ML, GC, SC	A-4	1-5	0-10	70-95	55-92	40-90	30-80	15-25	5-10
	8-15	Channery silt loam	CL, CL-ML, GC-GM, SC	A-4	0-5	0-10	70-95	55-92	40-90	30-80	15-25	5-10
	15-22	Channery silt loam	CL, CL-ML, GC-GM, SC	A-4	0-5	0-10	70-95	55-92	40-90	30-80	15-25	5-10
	22-52	Channery silt loam	CL, CL-ML, SC, SC-SM	A-4	0-5	0-25	50-95	35-92	25-90	20-80	20-30	5-10
	52-72	Very channery silt loam	GC, CL, CL-ML, GC-GM, SC	A-4, A-2, A-1	0-5	0-25	45-92	30-85	25-80	20-70	20-30	5-10
290526												
Norchip	0-2	Silt loam	ML, OL	A-5, A-7-5	0-1	0-5	75-100	70-100	60-100	40-90	40-50	5-15
	2-7	Silt loam	ML, OL	A-5, A-7-5	0-1	0-5	75-100	70-100	60-100	40-90	40-50	5-15
	7-11	Silt loam	ML, OL	A-5, A-7-5	0-1	0-5	75-100	70-100	60-100	40-90	40-50	5-15
	11-25	Channery loam	SC, GC-GM, GC, CL-ML	A-4, A-2-4, A-2, A-1-b	0-5	0-15	50-90	35-75	20-70	10-65	15-25	5-10
	25-52	Channery loam	SC, GC-GM, GC, CL-ML	A-4, A-2-4, A-2, A-1-b	0-5	0-20	50-90	35-75	20-70	10-65	15-25	5-10
	52-72	Very gravelly silt loam	GC, CL, CL-ML, GC-GM, SC	A-4, A-2-4, A-2, A-1-b	0-5	0-20	50-90	35-75	20-70	10-65	15-25	5-10
290535												
Oquaga	0-6	Channery silt loam	GM, ML, SM	A-4, A-2, A-5	0-1	0-20	45-90	30-75	15-70	10-65	35-45	2-7
	6-24	Very channery silt loam	SC-SM, GC-GM, GM, ML, SM	A-2, A-1, A-4	0-5	2-25	35-80	10-65	5-60	5-55	20-30	2-7
	24-34	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
290536												
Oquaga	0-6	Channery silt loam	GM, ML, SM	A-4, A-2, A-5	0-1	0-20	45-90	30-75	15-70	10-65	35-45	2-7
	6-24	Very channery silt loam	SC-SM, GC-GM, GM, ML, SM	A-2, A-1, A-4	0-5	2-25	35-80	10-65	5-60	5-55	20-30	2-7
	24-34	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
290539												
Oquaga	0-6	Channery silt loam	GM, ML, SM	A-4, A-2, A-5	0-1	0-20	45-90	30-75	15-70	10-65	35-45	2-7
	6-24	Very channery silt loam	SC-SM, GC-GM, GM, ML, SM	A-2, A-1, A-4	0-5	2-25	35-80	10-65	5-60	5-55	20-30	2-7
	24-34	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290540												
Oquaga	0-6	Channery silt loam	GM, ML, SM	A-4, A-2, A-5	0-1	0-20	45-90	30-75	15-70	10-65	35-45	2-7
	6-24	Very channery silt loam	SC-SM, GC-GM, GM, ML, SM	A-2, A-1, A-4	0-5	2-25	35-80	10-65	5-60	5-55	20-30	2-7
	24-34	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
Lordstown	0-3	Channery silt loam	ML, GM, SM	A-4	0	0-15	65-92	50-85	40-80	30-70	0-30	NP-4
	3-6	Channery silt loam	ML, GM, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	6-19	Channery silt loam	ML, GM, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	19-27	Channery loam, very channery loam	GM, ML, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	27-32	Gravelly loam	GM, ML, SM	A-4, A-2, A-1	0	0-25	45-85	30-70	25-70	20-65	0-30	NP-4
	32-42	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
Arnot	0-2	Channery loam	SM, ML, GM	A-4, A-2, A-5	0-5	0-25	40-85	20-70	15-70	10-65	35-45	1-9
	2-8	Channery silt loam	GM	A-4, A-2, A-1	0-5	0-25	40-85	20-70	15-70	10-65	20-35	1-9
	8-17	Very channery silt loam	GM	A-2, A-1, A-4	0-5	0-25	40-85	20-70	15-70	10-65	20-35	1-9
	17-27	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
290541												
Oquaga	0-6	Channery silt loam	GM, ML, SM	A-4, A-2, A-5	0-1	0-20	45-90	30-75	15-70	10-65	35-45	2-7
	6-24	Very channery silt loam	SC-SM, GC-GM, GM, ML, SM	A-2, A-1, A-4	0-5	2-25	35-80	10-65	5-60	5-55	20-30	2-7
	24-34	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
Lordstown	0-3	Channery silt loam	ML, GM, SM	A-4	0	0-15	65-92	50-85	40-80	30-70	0-30	NP-4
	3-6	Channery silt loam	ML, GM, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	6-19	Channery silt loam	ML, GM, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	19-27	Channery loam, very channery loam	GM, ML, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	27-32	Gravelly loam	GM, ML, SM	A-4, A-2, A-1	0	0-25	45-85	30-70	25-70	20-65	0-30	NP-4
	32-42	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
Arnot	0-2	Channery loam	SM, ML, GM	A-4, A-2, A-5	0-5	0-25	40-85	20-70	15-70	10-65	35-45	1-9
	2-8	Channery silt loam	GM	A-4, A-2, A-1	0-5	0-25	40-85	20-70	15-70	10-65	20-35	1-9
	8-17	Very channery silt loam	GM	A-2, A-1, A-4	0-5	0-25	40-85	20-70	15-70	10-65	20-35	1-9
	17-27	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
290542												
Oquaga	0-6	Channery silt loam	GM, ML, SM	A-4, A-2, A-5	0-1	0-20	45-90	30-75	15-70	10-65	35-45	2-7
	6-24	Very channery silt loam	SC-SM, GC-GM, GM, ML, SM	A-2, A-1, A-4	0-5	2-25	35-80	10-65	5-60	5-55	20-30	2-7
	24-34	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290542												
Lordstown	0-3	Channery silt loam	ML, GM, SM	A-4	0	0-15	65-92	50-85	40-80	30-70	0-30	NP-4
	3-6	Channery silt loam	ML, GM, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	6-19	Channery silt loam	ML, GM, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	19-27	Channery loam, very channery loam	GM, ML, SM	A-4	0	0-15	45-85	30-70	25-70	20-65	0-30	NP-4
	27-32	Gravelly loam	GM, ML, SM	A-4, A-2, A-1	0	0-25	45-85	30-70	25-70	20-65	0-30	NP-4
	32-42	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
Arnot	0-2	Channery loam	SM, ML, GM	A-4, A-2, A-5	0-5	0-25	40-85	20-70	15-70	10-65	35-45	1-9
	2-8	Channery silt loam	GM	A-4, A-2, A-1	0-5	0-25	40-85	20-70	15-70	10-65	20-35	1-9
	8-17	Very channery silt loam	GM	A-2, A-1, A-4	0-5	0-25	40-85	20-70	15-70	10-65	20-35	1-9
	17-27	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
290546												
Raypol	0-5	Silt loam	ML	A-4	0	0	85-100	85-100	65-100	40-90	0-30	NP-7
	5-10	Silt loam	ML	A-4	0	0	85-100	85-100	65-100	40-90	0-25	NP-5
	10-13	Very fine sandy loam	ML	A-4	0	0	85-100	85-100	65-100	40-90	0-25	NP-5
	13-21	Loam	ML	A-4	0	0	85-100	85-100	65-100	40-90	0-25	NP-5
	21-27	Stratified loamy fine sand to fine sandy loam	SM, GP, GM, SP	A-2, A-1, A-3	0	0-10	45-100	30-100	15-80	2-35	0-14	NP
	27-32	Loamy fine sand	SM, GP, GM, SP	A-2, A-1, A-3	0	0-10	45-100	30-100	15-80	2-35	0-14	NP
	32-40	Very gravelly loamy fine sand	SW-SM, GM, GP, SM, SP	A-1, A-2, A-3	0	0-20	45-100	30-100	15-80	2-35	0-14	NP
	40-72	Very gravelly sand	SW, GM, GP, SM, SP	A-1, A-2, A-3	0	0-20	45-100	30-100	15-80	2-30	0-14	NP
290547												
Red Hook	0-8	Gravelly silt loam	GC, CL-ML, GM, ML, SM	A-4, A-2, A-6	0	0-5	65-95	50-92	35-90	20-80	15-30	1-15
	8-17	Gravelly silt loam	CL, GM, ML, SC-SM, SM	A-4, A-2, A-1, A-6	0	0-5	45-92	30-85	20-80	10-70	15-30	1-15
	17-25	Gravelly silt loam	CL, GM, ML, SC-SM, SM	A-4, A-2, A-1, A-6	0	0-5	45-92	30-85	20-80	10-70	15-30	1-15
	25-38	Gravelly very fine sandy loam	SC, GM, ML, SC-SM, SM	A-4, A-2, A-1, A-6	0	0-5	45-92	30-85	20-80	10-70	15-30	1-15
	38-72	Very gravelly very fine sandy loam	SC, GM, ML, SC-SM, SM	A-2, A-1, A-4, A-6	0	0-10	40-92	25-85	10-80	5-70	15-30	1-15
290548												
Riverhead	0-7	Loam	ML, SM	A-4, A-2	0	0-5	65-100	50-100	30-95	15-75	14-18	1-3
	7-22	Fine sandy loam	SM	A-4, A-2, A-1	0	0-4	65-95	50-92	30-75	15-50	14-18	1-3
	22-28	Loamy fine sand	SM, SP-SM, SW-SM	A-2, A-1	0	0-4	65-95	50-92	25-65	10-35	0-14	NP
	28-72	Sand	SW-SM, SW, SP-SM, SP	A-1	0	0-4	65-95	45-92	20-65	0-25	0-14	NP

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290549												
Riverhead-------	0-7	Loam	ML, SM	A-4, A-2	0	0-5	65-100	50-100	30-95	15-75	14-18	1-3
	7-22	Fine sandy loam	SM	A-4, A-2, A-1	0	0-4	65-95	50-92	30-75	15-50	14-18	1-3
	22-28	Loamy fine sand	SM, SP-SM, SW-SM	A-2, A-1	0	0-4	65-95	50-92	25-65	10-35	0-14	NP
	28-72	Sand	SW-SM, SW, SP-SM, SP	A-1	0	0-4	65-95	45-92	20-65	0-25	0-14	NP
290555												
Torull----------	0-3	Mucky peat	PT, ML	A-8	0	0	90-100	80-100	70-100	50-90	35-50	10-20
	3-5	Silt loam	CL-ML, SC-SM, SM	A-4, A-2	0-1	0-10	65-100	50-100	40-95	30-80	20-30	2-7
	5-8	Silt loam	CL-ML, SC-SM, SM	A-4, A-2	0-1	0-10	65-100	50-100	40-95	30-80	20-30	2-7
	8-13	Channery silt loam	CL-ML, ML, SC-SM, SM	A-4, A-2	0-1	0-15	65-98	50-98	35-95	20-80	20-30	2-7
	13-18	Channery very fine sandy loam	SC-SM, ML, SM	A-4, A-2	0-1	0-15	65-98	50-98	35-95	20-80	20-30	2-7
	18-28	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
Gretor----------	0-7	Silt loam	ML, MH, GM, SM	A-7, A-6	0-1	0-10	65-95	50-92	40-90	30-80	35-55	10-20
	7-16	Channery very fine sandy loam	SM, ML, GM	A-7, A-6	0-1	0-10	65-95	50-92	40-90	25-80	35-50	10-20
	16-26	Channery clay loam, channery silt loam, channery loam	SC-SM, ML, CL-ML, SM	A-4	0-1	0-15	65-95	50-92	40-90	30-80	20-30	1-7
	26-36	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
290556												
Tunkhannock-----	0-6	Gravelly loam	SM, GM	A-2, A-1, A-4	0	0-10	50-90	30-75	15-70	10-65	0-14	---
	6-8	Gravelly loam	SM, GM, SP-SM	A-2, A-1, A-4	0	0-20	50-90	30-75	15-70	10-65	0-25	NP-3
	8-18	Very gravelly loam	GM, SM, SP-SM	A-1, A-2, A-4	0	0-20	45-90	30-75	15-70	10-65	0-25	NP-3
	18-25	Very gravelly sandy loam	GM, SM, SP-SM	A-1, A-2, A-4	0	0-20	45-90	30-75	15-70	10-65	0-25	NP-3
	25-72	Very gravelly loamy coarse sand	GP, GM, GP-GM, SP-SM	A-1	0-1	1-25	35-75	15-45	5-30	0-15	0-20	NP-2
290562												
Tunkhannock-----	0-6	Gravelly loam	SM, GM	A-2, A-1, A-4	0	0-10	50-90	30-75	15-70	10-65	0-14	---
	6-8	Gravelly loam	SM, GM, SP-SM	A-2, A-1, A-4	0	0-20	50-90	30-75	15-70	10-65	0-25	NP-3
	8-18	Very gravelly loam	GM, SM, SP-SM	A-1, A-2, A-4	0	0-20	45-90	30-75	15-70	10-65	0-25	NP-3
	18-25	Very gravelly sandy loam	GM, SM, SP-SM	A-1, A-2, A-4	0	0-20	45-90	30-75	15-70	10-65	0-25	NP-3
	25-72	Very gravelly loamy coarse sand	GP, GM, GP-GM, SP-SM	A-1	0-1	1-25	35-75	15-45	5-30	0-15	0-20	NP-2

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290562												
Chenango	0-10	Gravelly silt loam	CL-ML, GM, ML, SM	A-4, A-2, A-1	0	0-15	50-92	35-85	15-80	10-70	0-35	NP-10
	10-21	Very gravelly silt loam	GC-GM	A-4	0	0-15	45-90	30-75	15-70	10-65	0-40	NP-10
	21-25	Very gravelly sandy loam, gravelly fine sandy loam, very gravelly silt loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	0	0-15	45-90	30-75	15-70	10-65	0-40	NP-10
	25-72	Very gravelly loamy coarse sand, very gravelly sand, gravelly loamy fine sand, very gravelly loamy sand	GW-GM, GM, GW, SM	A-1	0	2-15	40-75	20-60	10-45	0-20	0-14	NP
290563												
Udorthents	0-4	Gravelly sandy loam	GC, CL, GM, ML, SM	A-4, A-2, A-6	---	0-10	60-80	55-75	35-75	20-70	0-45	NP-15
	4-70	Very gravelly sandy loam, channery loam, silty clay loam	CL, GM, ML, SC	A-4, A-2, A-1, A-6	---	0-10	35-100	30-100	20-100	10-95	0-45	NP-15
290565												
Unadilla	0-6	Silt loam	CL-ML, ML	A-4	0	0	95-100	92-100	75-100	50-90	0-35	NP-10
	6-15	Silt loam	CL-ML, ML	A-4	0	0	95-100	92-100	75-100	50-90	0-35	NP-10
	15-34	Silt loam	CL-ML, ML	A-4	0	0	95-100	92-100	75-100	50-90	0-25	NP-10
	34-39	Very fine sandy loam	CL-ML, ML	A-4	0	0	95-100	92-100	75-100	50-90	0-25	NP-10
	39-50	Silt loam	CL-ML, ML	A-4	0	0	95-100	92-100	75-100	50-90	0-25	NP-10
	50-72	Very gravelly sand, gravelly sand, loamy sand	SM, GP, GM, SP	A-2, A-1, A-3	0	0-10	45-100	25-100	10-80	1-50	0-14	NP
290567												
Valois	0-4	Very fine sandy loam	SM, SC-SM, ML, CL-ML	A-4, A-2	0	0-5	65-95	50-92	40-90	25-80	20-40	1-12
	4-5	Very fine sandy loam	SM, ML, GM, GC-GM	A-4, A-2, A-1	0	0-3	65-95	50-92	30-90	20-80	15-25	NP-5
	5-15	Gravelly silt loam	ML, GM, GC-GM, SM	A-4, A-2, A-1	0	0-10	65-95	50-92	30-90	15-80	15-25	NP-5
	15-31	Gravelly silt loam	ML, GM, GC-GM, SM	A-4, A-2, A-1	0	0-10	65-90	50-75	30-70	15-65	15-25	NP-5
	31-72	Very gravelly fine sandy loam	GM, GC-GM, GW-GM	A-1, A-2, A-4	0-1	0-15	45-70	30-55	15-50	10-45	15-25	NP-7

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290568												
Valois----------	0-4	Very fine sandy loam	SM, SC-SM, ML, CL-ML	A-4, A-2	0	0-5	65-95	50-92	40-90	25-80	20-40	1-12
	4-5	Very fine sandy loam	SM, ML, GM, GC-GM	A-4, A-2, A-1	0	0-3	65-95	50-92	30-90	20-80	15-25	NP-5
	5-15	Gravelly silt loam	ML, GM, GC-GM, SM	A-4, A-2, A-1	0	0-10	65-95	50-92	30-90	15-80	15-25	NP-5
	15-31	Gravelly silt loam	ML, GM, GC-GM, SM	A-4, A-2, A-1	0	0-10	65-90	50-75	30-70	15-65	15-25	NP-5
	31-72	Very gravelly fine sandy loam	GM, GC-GM, GW-GM	A-1, A-2, A-4	0-1	0-15	45-70	30-55	15-50	10-45	15-25	NP-7
290569												
Valois----------	0-4	Very fine sandy loam	SM, SC-SM, ML, CL-ML	A-4, A-2	0	0-5	65-95	50-92	40-90	25-80	20-40	1-12
	4-5	Very fine sandy loam	SM, ML, GM, GC-GM	A-4, A-2, A-1	0	0-3	65-95	50-92	30-90	20-80	15-25	NP-5
	5-15	Gravelly silt loam	ML, GM, GC-GM, SM	A-4, A-2, A-1	0	0-10	65-95	50-92	30-90	15-80	15-25	NP-5
	15-31	Gravelly silt loam	ML, GM, GC-GM, SM	A-4, A-2, A-1	0	0-10	65-90	50-75	30-70	15-65	15-25	NP-5
	31-72	Very gravelly fine sandy loam	GM, GC-GM, GW-GM	A-1, A-2, A-4	0-1	0-15	45-70	30-55	15-50	10-45	15-25	NP-7
290570												
Valois----------	0-4	Very fine sandy loam	SM, SC-SM, ML, CL-ML	A-4, A-2	0	0-5	65-95	50-92	40-90	25-80	20-40	1-12
	4-5	Very fine sandy loam	SM, ML, GM, GC-GM	A-4, A-2, A-1	0	0-3	65-95	50-92	30-90	20-80	15-25	NP-5
	5-15	Gravelly silt loam	ML, GM, GC-GM, SM	A-4, A-2, A-1	0	0-10	65-95	50-92	30-90	15-80	15-25	NP-5
	15-31	Gravelly silt loam	ML, GM, GC-GM, SM	A-4, A-2, A-1	0	0-10	65-90	50-75	30-70	15-65	15-25	NP-5
	31-72	Very gravelly fine sandy loam	GM, GC-GM, GW-GM	A-1, A-2, A-4	0-1	0-15	45-70	30-55	15-50	10-45	15-25	NP-7

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290576												
Volusia---------	0-8	Channery silt loam	CL, CL-ML, GC, SC	A-4	0-1	0-10	70-95	55-92	40-90	30-80	15-25	5-10
	8-15	Channery silt loam	CL, CL-ML, GC-GM, SC	A-4	0-5	0-10	70-95	55-92	40-90	30-80	15-25	5-10
	15-22	Channery silt loam	CL, CL-ML, GC-GM, SC	A-4	0-5	0-10	70-95	55-92	40-90	30-80	15-25	5-10
	22-52	Channery silt loam	CL, CL-ML, SC, SC-SM	A-4	0-5	0-25	50-95	35-92	25-90	20-80	20-30	5-10
	52-72	Very channery silt loam	GC, CL, CL-ML, GC-GM, SC	A-4, A-2, A-1	0-5	0-25	45-92	30-85	25-80	20-70	20-30	5-10
290578												
Wellsboro-------	0-8	Channery silt loam	CL-ML, ML, SM	A-4, A-2	0-1	0-15	65-95	45-92	35-90	25-80	0-14	3-10
	8-18	Channery silt loam	CL-ML, GC-GM, ML, SM	A-4, A-2	0-1	0-15	65-95	45-92	35-90	25-80	15-30	NP-10
	18-25	Channery silt loam	CL-ML, GC-GM, ML, SM	A-4, A-2	0-1	0-15	65-95	45-92	25-90	10-80	15-30	NP-10
	25-38	Channery silt loam	GC-GM, CL, GM, ML, SM	A-4, A-2	0-2	0-15	60-90	40-75	25-70	10-65	15-30	NP-10
	38-52	Channery loam	SC-SM, CL, GM, ML, SM	A-4, A-2	0-2	0-15	60-90	40-75	25-70	10-65	15-30	NP-10
	52-62	Very channery loam	SC-SM, CL, GM, ML, SM	A-2, A-4	0-2	0-15	55-90	40-75	25-70	10-65	15-30	NP-10
	62-72	Very channery loam	GC-GM, CL, GM, ML, SM	A-2, A-4	0-2	0-20	55-90	40-75	25-70	10-65	15-30	NP-10
290579												
Wellsboro-------	0-8	Channery silt loam	CL-ML, ML, SM	A-4, A-2	0-1	0-15	65-95	45-92	35-90	25-80	0-14	3-10
	8-18	Channery silt loam	CL-ML, GC-GM, ML, SM	A-4, A-2	0-1	0-15	65-95	45-92	35-90	25-80	15-30	NP-10
	18-25	Channery silt loam	CL-ML, GC-GM, ML, SM	A-4, A-2	0-1	0-15	65-95	45-92	25-90	10-80	15-30	NP-10
	25-38	Channery silt loam	GC-GM, CL, GM, ML, SM	A-4, A-2	0-2	0-15	60-90	40-75	25-70	10-65	15-30	NP-10
	38-52	Channery loam	SC-SM, CL, GM, ML, SM	A-4, A-2	0-2	0-15	60-90	40-75	25-70	10-65	15-30	NP-10
	52-62	Very channery loam	SC-SM, CL, GM, ML, SM	A-2, A-4	0-2	0-15	55-90	40-75	25-70	10-65	15-30	NP-10
	62-72	Very channery loam	GC-GM, CL, GM, ML, SM	A-2, A-4	0-2	0-20	55-90	40-75	25-70	10-65	15-30	NP-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290581												
Wellsboro--------	0-8	Channery silt loam	CL-ML, ML, SM	A-4, A-2	0-1	0-15	65-95	45-92	35-90	25-80	0-14	3-10
	8-18	Channery silt loam	CL-ML, GC-GM, ML, SM	A-4, A-2	0-1	0-15	65-95	45-92	35-90	25-80	15-30	NP-10
	18-25	Channery silt loam	CL-ML, GC-GM, ML, SM	A-4, A-2	0-1	0-15	65-95	45-92	25-90	10-80	15-30	NP-10
	25-38	Channery silt loam	GC-GM, CL, GM, ML, SM	A-4, A-2	0-2	0-15	60-90	40-75	25-70	10-65	15-30	NP-10
	38-52	Channery loam	SC-SM, CL, GM, ML, SM	A-4, A-2	0-2	0-15	60-90	40-75	25-70	10-65	15-30	NP-10
	52-62	Very channery loam	SC-SM, CL, GM, ML, SM	A-2, A-4	0-2	0-15	55-90	40-75	25-70	10-65	15-30	NP-10
	62-72	Very channery loam	GC-GM, CL, GM, ML, SM	A-2, A-4	0-2	0-20	55-90	40-75	25-70	10-65	15-30	NP-10
Mardin----------	0-5	Channery silt loam	CL, GC, GM, ML	A-4	0-1	0-15	65-95	50-92	40-90	30-80	25-35	5-10
	5-14	Channery silt loam	CL, CL-ML, GC, SC-SM	A-4	0-1	0-15	65-95	50-92	40-90	30-80	15-25	5-10
	14-23	Channery silt loam	GC, CL-ML, CL, SC-SM	A-4	0-1	0-15	65-95	50-92	40-90	30-80	15-25	5-10
	23-26	Channery loam	GC, CL-ML, CL, SC-SM	A-4	0-1	0-15	65-95	50-92	35-90	20-80	15-25	5-10
	26-52	Very channery loam	GC, CL-ML, CL, SC	A-2, A-4, A-1	0-5	0-25	45-90	30-75	25-70	20-65	20-30	5-10
	52-72	Very channery loam	GC, CL-ML, CL, SC	A-2, A-4, A-1	0-5	0-25	45-90	30-75	25-70	20-65	20-30	5-10
290582												
Wenonah----------	0-10	Silt loam	ML, SM	A-4, A-2-4	0	0	85-100	75-100	45-100	25-90	0-15	NP-4
	10-20	Silt loam	ML, SM	A-4, A-2	0	0	85-100	75-100	50-100	30-90	0-15	NP-4
	20-32	Very fine sandy loam	ML, SM	A-4, A-2	0	0	80-100	75-100	50-100	30-90	0-15	NP-4
	32-60	Fine sandy loam	SM, ML, GW-GM, GM	A-4, A-2, A-1	0	0-3	50-100	35-100	20-95	10-75	0-15	NP-2
	60-72	Very fine sandy loam	SM, ML, GW-GM, GM	A-4, A-2, A-1	0	0-4	45-100	35-100	15-95	5-75	0-15	NP-2
290592												
Carlisle---------	0-8	Muck	PT	A-8	0	0	100	100	100	100	---	---
	8-42	Muck	PT	A-8	0	0	100	100	---	---	---	---
	42-65	Muck	PT	A-8	0	0	100	100	---	---	---	---
	65-72	Mucky peat	PT	A-8	0	0	100	100	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
290592												
Palms	0-6	Muck	PT	A-8	0	0	100	100	100	100	---	---
	6-22	Muck	PT	A-8	0	0	100	---	---	---	---	---
	22-36	Muck	PT	A-8	0	0	100	---	---	---	---	---
	36-72	Clay loam, silty clay loam, gravelly sandy loam	SC, CL-ML, CL, SC-SM	A-2, A-4, A-6, A-7	0	0	70-100	60-100	35-95	15-80	20-45	5-20
293892												
Alden, extremely stony	0-9	Silt loam	OL, ML	A-7, A-5	1-8	0-5	85-100	75-100	60-100	35-85	40-50	5-15
	9-36	Silt loam, silty clay loam, very fine sandy loam	CL-ML, CL	A-6, A-4	0-1	0-3	85-100	75-100	60-95	35-90	20-35	5-15
	36-60	Gravelly fine sandy loam, loam, silty clay loam	GC, SC, CL, CL-ML	A-6, A-4, A-2	0-3	0-5	65-95	50-92	35-90	20-85	20-35	5-15
293895												
Arnot	0-4	Channery silt loam	SM, ML, GM	A-5, A-4, A-2	0-2	0-10	65-90	55-75	40-70	30-65	35-45	1-9
	4-15	Very channery silt loam, very channery loam	GM	A-4, A-2, A-1	0-3	1-25	50-70	30-50	25-50	20-45	20-35	1-9
	15-19	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
Lordstown	0-2	Highly decomposed plant material	PT	A-8	0-2	0-10	100	100	---	---	---	---
	2-8	Channery silt loam	SM, ML, GM	A-4	0-2	0-10	65-92	50-75	40-70	30-65	15-30	NP-4
	8-21	Channery silt loam, channery loam	SM, ML, GM	A-4	0-2	0-10	65-92	50-75	40-70	30-65	15-30	NP-4
	21-37	Channery loam, channery silt loam, very channery fine sandy loam	SM, ML, GM	A-4, A-2	0-3	0-15	65-92	50-75	40-70	30-65	15-30	NP-4
	37-41	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
293896												
Arnot	0-3	Channery silt loam	SM, ML, GM	A-5, A-4, A-2	0-2	0-10	65-90	55-75	40-70	30-65	35-45	1-9
	3-14	Very channery silt loam, very channery loam	GM	A-4, A-2, A-1	0-3	1-25	50-70	30-50	25-50	20-45	20-35	1-9
	14-19	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
293896												
Lordstown-------	0-2	Highly decomposed plant material	PT	A-8	0-2	0-10	100	100	---	---	---	---
	2-7	Channery silt loam	SM, ML, GM	A-4	0-2	0-10	65-92	50-75	40-70	30-65	15-30	NP-4
	7-21	Channery silt loam, channery loam	SM, ML, GM	A-4	0-2	0-10	65-92	50-75	40-70	30-65	15-30	NP-4
	21-35	Channery loam, channery silt loam, very channery fine sandy loam	SM, ML, GM	A-4, A-2	0-3	0-15	65-92	50-75	40-70	30-65	15-30	NP-4
	35-43	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
293897												
Arnot-----------	0-3	Channery silt loam	SM, ML, GM	A-5, A-4, A-2	0-2	0-10	65-90	55-75	40-70	30-65	35-45	1-9
	3-13	Very channery silt loam, very channery loam	GM	A-4, A-2, A-1	0-3	1-25	50-70	30-50	25-50	20-45	20-35	1-9
	13-19	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
Lordstown-------	0-2	Highly decomposed plant material	PT	A-8	0-2	0-10	100	100	---	---	---	---
	2-7	Channery silt loam	SM, ML, GM	A-4	0-2	0-10	65-92	50-75	40-70	30-65	15-30	NP-4
	7-21	Channery silt loam, channery loam	SM, ML, GM	A-4	0-2	0-10	65-92	50-75	40-70	30-65	15-30	NP-4
	21-34	Channery loam, channery silt loam, very channery fine sandy loam	SM, ML, GM	A-4, A-2	0-3	0-15	65-92	50-75	40-70	30-65	15-30	NP-4
	34-43	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
293921												
Erie, extremely stony----------	0-4	Gravelly silt loam	SM, ML, GM	A-4, A-2	1-8	0-5	65-90	50-75	35-70	20-65	30-40	5-10
	4-18	Channery fine sandy loam, channery silt loam, channery loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0-2	0-10	65-90	50-75	35-70	20-65	15-25	5-10
	18-50	Channery silt loam, channery silty clay loam, very channery loam	SC, GC, CL	A-6, A-2	0-5	0-20	50-85	35-70	25-70	20-65	25-35	10-15
	50-70	Channery silt loam, channery silty clay loam, very channery loam	SC, GC, CL	A-6, A-2	0-5	0-25	50-85	35-70	25-70	20-65	25-35	10-15

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
293929												
Hoosic	0-6	Gravelly sandy loam	SM, ML, GM	A-4, A-5, A-1, A-2	0	0-10	50-90	35-75	15-65	10-50	30-45	2-10
	6-28	Gravelly sandy loam, very gravelly sandy loam, gravelly loam	SP-SM, SC-SM, GM, SM	A-4, A-2, A-1	0	0-10	50-90	35-75	15-65	10-50	20-30	2-8
	28-60	Very gravelly sand, very gravelly loamy sand, extremely gravelly loamy sand	GW, GP, GM, SM	A-1	0	0-15	40-75	30-50	15-30	0-15	---	NP
293930												
Hoosic	0-5	Gravelly sandy loam	SM, ML, GM	A-4, A-5, A-1, A-2	0	0-10	50-90	35-75	15-65	10-50	30-45	2-10
	5-25	Gravelly sandy loam, very gravelly sandy loam, gravelly loam	SP-SM, SC-SM, GM, SM	A-4, A-2, A-1	0	0-10	50-90	35-75	15-65	10-50	20-30	2-8
	25-60	Very gravelly sand, very gravelly loamy sand, extremely gravelly loamy sand	SM, GP, GW, GM	A-1	0	0-15	40-75	30-50	15-30	0-15	---	NP
293931												
Hoosic	0-5	Gravelly sandy loam	SM, ML, GM	A-4, A-5, A-1, A-2	0	0-10	50-90	35-75	15-65	10-50	30-45	2-10
	5-23	Gravelly sandy loam, very gravelly sandy loam, gravelly loam	SP-SM, SC-SM, GM, SM	A-4, A-2, A-1	0	0-10	50-90	35-75	15-65	10-50	20-30	2-8
	23-60	Very gravelly sand, very gravelly loamy sand, extremely gravelly loamy sand	SM, GP, GW, GM	A-1	0	0-15	40-75	30-50	15-30	0-15	---	NP
293932												
Lordstown	0-2	Highly decomposed plant material	PT	A-8	0-2	0-10	100	100	---	---	---	---
	2-8	Channery silt loam	SM, ML, GM	A-4	0-2	0-10	65-92	50-75	40-70	30-65	15-30	NP-4
	8-21	Channery silt loam, channery loam	SM, ML, GM	A-4	0-2	0-10	65-92	50-75	40-70	30-65	15-30	NP-4
	21-38	Channery loam, channery silt loam, very channery fine sandy loam	SM, ML, GM	A-4, A-2	0-3	0-15	65-92	50-75	40-70	30-65	15-30	NP-4
	38-42	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
293939												
Middlebury------	0-11	Silt loam	SC-SM, SM, CL, ML	A-4	0	0	85-100	75-100	60-100	40-90	25-35	5-10
	11-42	Silt loam, very fine sandy loam, gravelly fine sandy loam	SC-SM, SM, CL-ML, ML	A-4, A-2	0	0	75-100	70-100	50-100	30-90	20-25	2-5
	42-60	Stratified gravelly sand	SM, SW-SM, GM, GW	A-3, A-2, A-1	0	0-5	50-92	40-85	20-55	0-30	---	NP
293943												
Otisville-------	0-6	Gravelly sandy loam	SM, GM	A-2, A-1	0	0-10	65-90	50-75	25-50	10-30	---	NP
	6-28	Very gravelly sand, very gravelly loamy sand, gravelly loamy sand	SW, SM, GM	A-1	0	0-10	50-75	35-55	15-40	1-15	---	NP
	28-60	Very gravelly sand, very gravelly loamy sand	SP, GW, GW-GM	A-1	0	0-10	40-70	30-50	15-30	0-15	---	NP
293944												
Otisville-------	0-6	Gravelly sandy loam	SM, GM	A-2, A-1	0	0-10	65-90	50-75	25-50	10-30	---	NP
	6-26	Very gravelly sand, very gravelly loamy sand, gravelly loamy sand	SW, SM, GM	A-1	0	0-10	50-75	35-55	15-40	1-15	---	NP
	26-60	Very gravelly sand, very gravelly loamy sand	SP, GW-GM, GW	A-1	0	0-10	40-70	30-50	15-30	0-15	---	NP
293945												
Otisville-------	0-5	Gravelly sandy loam	SM, GM	A-2, A-1	0	0-10	65-90	50-75	25-50	10-30	---	NP
	5-23	Very gravelly sand, very gravelly loamy sand, gravelly loamy sand	SW, SM, GM	A-1	0	0-10	50-75	35-55	15-40	1-15	---	NP
	23-60	Very gravelly sand, very gravelly loamy sand	SP, GW-GM, GW	A-1	0	0-10	40-70	30-50	15-30	0-15	---	NP

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
293946												
Otisville-------	0-4	Gravelly sandy loam	SM, GM	A-2, A-1	0	0-10	65-90	50-75	25-50	10-30	---	NP
	4-20	Very gravelly sand, very gravelly loamy sand, gravelly loamy sand	SW, SM, GM	A-1	0	0-10	50-75	35-55	15-40	1-15	---	NP
	20-60	Very gravelly sand, very gravelly loamy sand	SP, GW-GM, GW	A-1	0	0-10	40-70	30-50	15-30	0-15	---	NP
Hoosic----------	0-4	Gravelly sandy loam	SM, ML, GM	A-4, A-5, A-1, A-2	0	0-10	50-90	35-75	15-65	10-50	30-45	2-10
	4-22	Gravelly sandy loam, very gravelly sandy loam, gravelly loam	SP-SM, SC-SM, GM, SM	A-4, A-2, A-1	0	0-10	50-90	35-75	15-65	10-50	20-30	2-8
	22-60	Very gravelly sand, very gravelly loamy sand, extremely gravelly loamy sand	SM, GP, GW, GM	A-1	0	0-15	40-75	30-50	15-30	0-15	---	NP
293961												
Arnot-----------	0-4	Channery silt loam	SM, ML, GM	A-5, A-4, A-2	0-2	0-10	65-90	55-75	40-70	30-65	35-45	1-9
	4-15	Very channery silt loam, very channery loam	GM	A-4, A-2, A-1	0-3	1-25	50-70	30-50	25-50	20-45	20-35	1-9
	15-19	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
293962												
Arnot-----------	0-4	Channery silt loam	SM, ML, GM	A-5, A-4, A-2	0-2	0-10	65-90	55-75	40-70	30-65	35-45	1-9
	4-14	Very channery silt loam, very channery loam	GM	A-4, A-2, A-1	0-3	1-25	50-70	30-50	25-50	20-45	20-35	1-9
	14-19	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
293963												
Arnot-----------	0-4	Channery silt loam	SM, ML, GM	A-5, A-4, A-2	0-2	0-10	65-90	55-75	40-70	30-65	35-45	1-9
	4-12	Very channery silt loam, very channery loam	GM	A-4, A-2, A-1	0-3	1-25	50-70	30-50	25-50	20-45	20-35	1-9
	12-19	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
293975												
Suncook	0-4	Sandy loam	SM	A-4, A-2	0	0	92-100	85-100	45-70	15-40	---	NP
	4-37	Stratified coarse sand to loamy fine sand, fine sand	SM	A-3, A-2, A-1	0	0	92-100	85-100	40-80	5-35	---	NP
	37-60	Stratified gravelly coarse sand to loamy fine sand, stratified sand to fine sand	SP-SM, SP, SM	A-3, A-2, A-1	0	0	65-100	45-100	20-80	0-35	---	NP
293979												
Swartswood, very stony	0-3	Gravelly loam	SM, ML, GM	A-4, A-2, A-1	1-5	0-15	65-90	50-75	30-65	15-50	---	---
	3-31	Gravelly fine sandy loam, flaggy sandy loam, channery loam	SM, ML, GM	A-4, A-2, A-1	0-3	0-20	65-90	50-75	30-65	15-50	15-25	NP-3
	31-60	Gravelly fine sandy loam, flaggy sandy loam, very channery loam	ML, SM, GM, GW-GM	A-4, A-2, A-1	0-5	0-25	50-90	35-75	15-65	10-50	15-20	NP-3
Mardin	0-6	Gravelly silt loam	GM, ML, CL, GC	A-4	1-5	0-5	65-92	50-85	40-80	30-70	25-35	5-10
	6-17	Channery loam, loam, gravelly silt loam	GC, SC-SM, CL, CL-ML	A-4	0-2	0-10	65-92	50-85	40-80	30-70	15-25	5-10
	17-60	Channery loam, channery silt loam, very channery loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0-3	0-20	50-85	35-70	25-70	20-65	20-30	5-10
293980												
Swartswood, very stony	0-2	Gravelly loam	SM, ML, GM	A-4, A-2, A-1	1-5	0-15	65-90	50-75	30-65	15-50	---	---
	2-28	Gravelly fine sandy loam, flaggy sandy loam, channery loam	SM, ML, GM	A-4, A-2, A-1	0-3	0-20	65-90	50-75	30-65	15-50	15-25	NP-3
	28-60	Gravelly fine sandy loam, flaggy sandy loam, very channery loam	ML, SM, GM, GW-GM	A-4, A-2, A-1	0-5	0-25	50-90	35-75	15-65	10-50	15-20	NP-3
Mardin	0-6	Gravelly silt loam	GM, ML, CL, GC	A-4	1-5	0-5	65-92	50-85	40-80	30-70	25-35	5-10
	6-15	Channery loam, loam, gravelly silt loam	GC, SC-SM, CL, CL-ML	A-4	0-2	0-10	65-92	50-85	40-80	30-70	15-25	5-10
	15-60	Channery loam, channery silt loam, very channery loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0-3	0-20	50-85	35-70	25-70	20-65	20-30	5-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
293981												
Swartswood, very stony-----	0-2	Gravelly loam	SM, ML, GM	A-4, A-2, A-1	1-5	0-15	65-90	50-75	30-65	15-50	---	---
	2-26	Gravelly fine sandy loam, flaggy sandy loam, channery loam	SM, ML, GM	A-4, A-2, A-1	0-3	0-20	65-90	50-75	30-65	15-50	15-25	NP-3
	26-60	Gravelly fine sandy loam, flaggy sandy loam, very channery loam	ML, SM, GM, GW-GM	A-4, A-2, A-1	0-5	0-25	50-90	35-75	15-65	10-50	15-20	NP-3
Mardin----------	0-5	Gravelly silt loam	GM, ML, CL, GC	A-4	1-5	0-5	65-92	50-85	40-80	30-70	25-35	5-10
	5-14	Channery loam, loam, gravelly silt loam	GC, SC-SM, CL, CL-ML	A-4	0-2	0-10	65-92	50-85	40-80	30-70	15-25	5-10
	14-60	Channery loam, channery silt loam, very channery loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0-3	0-20	50-85	35-70	25-70	20-65	20-30	5-10
293983												
Udifluvents, frequently flooded--------	0-4	Gravelly loam	SM, ML, CL	A-6, A-4, A-2	0	0-5	80-100	75-100	40-100	15-95	15-30	NP-20
	4-70	Very gravelly sand, gravelly loam, silty clay loam	ML, SC, CL, GM	A-4, A-6, A-1, A-2	0	0-15	35-100	30-100	15-100	5-90	15-30	NP-20
Fluvaquents-----	0-5	Silt loam	ML, SM, CL, GM	A-4, A-2, A-1	0	0-10	60-100	55-100	30-100	10-90	15-25	NP-15
	5-70	Very gravelly sand, gravelly silt loam, silty clay loam	ML, SC-SM, CL, GC	A-6, A-4, A-1, A-2	0	0-15	35-100	30-100	15-100	5-90	15-30	NP-20
295043												
Alden-----------	0-12	Silt loam	OL, ML	A-7, A-5	0	0	85-100	75-100	65-95	40-90	40-50	5-15
	12-33	Silt loam, silty clay loam, very fine sandy loam	CL-ML, CL	A-6, A-4	0	0	85-100	75-100	65-95	40-90	20-35	5-15
	33-60	Gravelly silt loam, fine sandy loam, channery silty clay loam	GC, SC, CL, CL-ML	A-6, A-4, A-2	0	0-5	65-95	50-92	35-90	20-85	20-35	5-15

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295044												
Arnot	0-1	Moderately decomposed plant material	PT	A-8	0-5	0-10	100	100	---	---	---	---
	1-3	Channery loam	SM, ML, GM	A-5, A-4, A-2	0-5	0-10	40-90	25-80	20-80	15-70	35-45	1-9
	3-17	Very channery silt loam, very channery loam	SM	A-4, A-2, A-2-4	0-5	2-25	40-70	25-50	20-50	15-45	20-35	1-9
	17-21	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
Lordstown	0-3	Moderately decomposed plant material	PT	A-8	---	---	100	100	---	---	---	---
	3-6	Silt loam	SM, ML, GM	A-4	0-5	0-10	65-95	50-92	40-85	30-70	15-30	NP-4
	6-20	Channery silt loam, channery loam	SM, ML, GM	A-4	0-5	0-10	65-90	50-75	40-70	30-65	15-30	NP-4
	20-28	Channery loam, channery silt loam, very channery fine sandy loam	SM, ML, GM	A-4, A-2	0-5	0-15	65-90	50-75	40-70	30-65	15-30	NP-4
	28-32	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
295045												
Arnot	0-1	Moderately decomposed plant material	PT	A-8	0-5	0-10	100	100	---	---	---	---
	1-3	Channery loam	SM, ML, GM	A-5, A-4, A-2	0-5	0-10	40-90	25-80	20-80	15-70	35-45	1-9
	3-17	Very channery silt loam, very channery loam	SM	A-4, A-2, A-2-4	0-5	2-25	40-70	25-50	20-50	15-45	20-35	1-9
	17-21	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
Lordstown	0-3	Moderately decomposed plant material	PT	A-8	---	---	100	100	---	---	---	---
	3-6	Silt loam	SM, ML, GM	A-4	0-5	0-10	65-95	50-92	40-85	30-70	15-30	NP-4
	6-20	Channery silt loam, channery loam	SM, ML, GM	A-4	0-5	0-10	65-90	50-75	40-70	30-65	15-30	NP-4
	20-28	Channery loam, channery silt loam, very channery fine sandy loam	SM, ML, GM	A-4, A-2	0-5	0-15	65-90	50-75	40-70	30-65	15-30	NP-4
	28-32	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295046												
Arnot	0-1	Moderately decomposed plant material	PT	A-8	0-5	0-10	100	100	---	---	---	---
	1-3	Channery loam	SM, ML, GM	A-5, A-4, A-2	0-5	0-10	40-90	25-80	20-80	15-70	35-45	1-9
	3-17	Very channery silt loam, very channery loam	SM	A-4, A-2, A-2-4	0-5	2-25	40-70	25-50	20-50	15-45	20-35	1-9
	17-21	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
Oquaga	0-2	Slightly decomposed plant material	PT	A-8	0-5	0-10	100	100	---	---	---	---
	2-6	Very channery silt loam	SM, ML, GM	A-4, A-5, A-1, A-2	0-5	0-15	45-75	30-60	25-60	20-55	35-45	2-7
	6-36	Very channery loam, very channery silt loam	ML, SM, GC-GM, GM	A-4, A-2, A-1-b	0-5	0-25	45-75	30-60	20-60	20-55	20-30	2-7
	36-40	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
295047												
Arnot	0-1	Moderately decomposed plant material	PT	A-8	0-5	0-10	100	100	---	---	---	---
	1-3	Channery loam	SM, ML, GM	A-5, A-4, A-2	0-5	0-10	40-90	25-80	20-80	15-70	35-45	1-9
	3-17	Very channery silt loam, very channery loam	SM	A-4, A-2, A-2-4	0-5	2-25	40-70	25-50	20-50	15-45	20-35	1-9
	17-21	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
Oquaga	0-2	Slightly decomposed plant material	PT	A-8	0-5	0-10	100	100	---	---	---	---
	2-6	Very channery silt loam	SM, ML, GM	A-4, A-5, A-1, A-2	0-5	0-15	45-75	30-60	25-60	20-55	35-45	2-7
	6-36	Very channery loam, very channery silt loam	ML, SM, GC-GM, GM	A-4, A-2, A-1-b	0-5	0-25	45-75	30-60	20-60	20-55	20-30	2-7
	36-40	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
295048												
Arnot	0-1	Moderately decomposed plant material	PT	A-8	0-5	0-10	100	100	---	---	---	---
	1-3	Channery loam	SM, ML, GM	A-5, A-4, A-2	0-5	0-10	40-90	25-80	20-80	15-70	35-45	1-9
	3-17	Very channery silt loam, very channery loam	SM	A-4, A-2, A-2-4	0-5	2-25	40-70	25-50	20-50	15-45	20-35	1-9
	17-21	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295049												
Arnot	0-1	Moderately decomposed plant material	PT	A-8	0-5	0-10	100	100	---	---	---	---
	1-3	Channery loam	SM, ML, GM	A-5, A-4, A-2	0-5	0-10	40-90	25-80	20-80	15-70	35-45	1-9
	3-17	Very channery silt loam, very channery loam	SM	A-4, A-2, A-2-4	0-5	2-25	40-70	25-50	20-50	15-45	20-35	1-9
	17-21	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
295050												
Arnot	0-1	Moderately decomposed plant material	PT	A-8	0-5	0-10	100	100	---	---	---	---
	1-3	Channery loam	SM, ML, GM	A-5, A-4, A-2	0-5	0-10	40-90	25-80	20-80	15-70	35-45	1-9
	3-17	Very channery silt loam, very channery loam	SM	A-4, A-2, A-2-4	0-5	2-25	40-70	25-50	20-50	15-45	20-35	1-9
	17-21	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
295051												
Barbour	0-8	Loam	SC-SM, SM, CL-ML, ML	A-4, A-2	0	0	65-100	50-100	35-100	20-90	15-25	2-7
	8-30	Silt loam, loam, gravelly fine sandy loam	SC-SM, SM, CL-ML, ML	A-4, A-2	0	0	65-100	50-100	30-100	15-85	15-25	2-7
	30-60	Sand, very gravelly loamy sand, gravelly loamy fine sand	SM, SP-SM, GM, GP	A-3, A-2, A-1-a	0	0-5	45-95	30-92	15-80	0-35	0-26	NP
295052												
Bash	0-5	Silt loam	SM, ML	A-4, A-2	0	0-5	75-100	70-100	50-100	30-90	15-25	NP-5
	5-22	Silt loam, gravelly loam, fine sandy loam	SM, ML	A-4, A-2	0	0-5	75-100	70-100	50-100	30-90	15-25	NP-5
	22-45	Gravelly silt loam, very gravelly loam, fine sandy loam	SM, ML, GM	A-4, A-2, A-1	0	0-5	50-100	35-100	15-100	10-90	15-25	NP-5
	45-60	Gravelly silt loam, very gravelly loam, fine sandy loam	SM, SP-SM, GM, GP-GM	A-4, A-2, A-1	0	0-5	50-100	35-100	15-100	10-80	15-25	NP-5
295053												
Carlisle	0-60	Muck	PT	A-8	0	0	100	100	---	---	---	---
295054												
Carlisle, ponded	0-60	Muck	PT	A-8	0	0	100	100	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295054												
Palms, ponded---	0-12	Muck	PT	A-8	0	0	100	100	---	---	---	---
	12-22	Muck	PT	A-8	0	0	100	100	---	---	---	---
	22-60	Loam, silt loam, fine sandy loam	SC, SC-SM, CL, CL-ML	A-6, A-7, A-2, A-4	0	0	85-100	75-100	50-100	30-90	20-45	5-20
Alden, ponded---	0-12	Silt loam	OL, ML	A-7, A-5	0	0	85-100	75-100	65-95	40-90	40-50	5-15
	12-33	Silt loam, silty clay loam, very fine sandy loam	CL-ML, CL	A-6, A-4	0	0	85-100	75-100	65-95	40-90	20-35	5-15
	33-60	Gravelly silt loam, fine sandy loam, channery silty clay loam	GC, SC, CL, CL-ML	A-6, A-4, A-2	0	0-5	65-95	50-92	35-90	20-85	20-35	5-15
295055												
Chenango---------	0-4	Gravelly loam	SC-SM, ML, GM	A-4, A-2, A-1	0	0-10	65-92	55-85	35-80	15-70	15-35	NP-10
	4-31	Gravelly silt loam, gravelly fine sandy loam, very gravelly loam	SM, ML, GM	A-4, A-2, A-1-b	0	0-10	45-85	30-70	20-70	10-65	15-40	NP-10
	31-60	Very gravelly loamy coarse sand, very gravelly sand, gravelly loamy fine sand	GW, SM, GM, SP	A-1-a	0	0-10	40-75	20-60	10-45	0-20	0-26	NP
295056												
Chenango---------	0-4	Gravelly loam	SC-SM, ML, GM	A-4, A-2, A-1	0	0-10	65-92	55-85	35-80	15-70	15-35	NP-10
	4-31	Gravelly silt loam, gravelly fine sandy loam, very gravelly loam	SM, ML, GM	A-4, A-2, A-1-b	0	0-10	45-85	30-70	20-70	10-65	15-40	NP-10
	31-60	Very gravelly loamy coarse sand, very gravelly sand, gravelly loamy fine sand	GW, SM, GM, SP	A-1-a	0	0-10	40-75	20-60	10-45	0-20	0-26	NP

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295057												
Chenango--------	0-4	Gravelly loam	SC-SM, ML, GM	A-4, A-2, A-1	0	0-10	65-92	55-85	35-80	15-70	15-35	NP-10
	4-31	Gravelly silt loam, gravelly fine sandy loam, very gravelly loam	SM, ML, GM	A-4, A-2, A-1-b	0	0-10	45-85	30-70	20-70	10-65	15-40	NP-10
	31-60	Very gravelly loamy coarse sand, very gravelly sand, gravelly loamy fine sand	GW, SM, GM, SP	A-1-a	0	0-10	40-75	20-60	10-45	0-20	0-26	NP
295059												
Cheshire, stony-	0-5	Channery loam	SC-SM, ML, GM	A-4, A-2	0-5	0-10	70-95	60-92	40-85	25-75	15-35	NP-10
	5-36	Fine sandy loam, silt loam, channery loam	SM, ML, GM	A-4, A-2	0-5	0-15	70-95	60-92	40-85	25-75	15-30	NP-6
	36-60	Gravelly sandy loam, fine sandy loam, channery loam	SM, GM	A-4, A-2, A-1	0-5	0-15	70-95	60-92	40-85	25-75	15-25	NP-4
295060												
Cheshire, stony-	0-5	Channery loam	SC-SM, ML, GM	A-4, A-2	0-5	0-10	70-95	60-92	40-85	25-75	15-35	NP-10
	5-36	Fine sandy loam, silt loam, channery loam	SM, ML, GM	A-4, A-2	0-5	0-15	70-95	60-92	40-85	25-75	15-30	NP-6
	36-60	Gravelly sandy loam, fine sandy loam, channery loam	SM, GM	A-4, A-2, A-1	0-5	0-15	70-95	60-92	40-85	25-75	15-25	NP-4
295061												
Cheshire, stony-	0-5	Channery loam	SC-SM, ML, GM	A-4, A-2	0-5	0-10	70-95	60-92	40-85	25-75	15-35	NP-10
	5-36	Fine sandy loam, silt loam, channery loam	SM, ML, GM	A-4, A-2	0-5	0-15	70-95	60-92	40-85	25-75	15-30	NP-6
	36-60	Gravelly sandy loam, fine sandy loam, channery loam	SM, GM	A-4, A-2, A-1	0-5	0-15	70-95	60-92	40-85	25-75	15-25	NP-4
295062												
Cheshire, stony-	0-5	Channery loam	SC-SM, ML, GM	A-4, A-2	0-5	0-10	70-95	60-92	40-85	25-75	15-35	NP-10
	5-36	Fine sandy loam, silt loam, channery loam	SM, ML, GM	A-4, A-2	0-5	0-15	70-95	60-92	40-85	25-75	15-30	NP-6
	36-60	Gravelly sandy loam, fine sandy loam, channery loam	SM, GM	A-4, A-2, A-1	0-5	0-15	70-95	60-92	40-85	25-75	15-25	NP-4

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295063												
Cheshire, stony-	0-5	Channery loam	SC-SM, ML, GM	A-4, A-2	0-5	0-10	70-95	60-92	40-85	25-75	15-35	NP-10
	5-36	Fine sandy loam, silt loam, channery loam	SM, ML, GM	A-4, A-2	0-5	0-15	70-95	60-92	40-85	25-75	15-30	NP-6
	36-60	Gravelly sandy loam, fine sandy loam, channery loam	SM, GM	A-4, A-2, A-1	0-5	0-15	70-95	60-92	40-85	25-75	15-25	NP-4
295069												
Fluvaquents-----	0-5	Gravelly silt loam	ML, SM, CL, GM	A-4, A-2, A-1	0	0-10	60-100	55-100	30-100	10-90	15-25	NP-15
	5-70	Very gravelly sandy loam, gravelly silt loam, silt loam	ML, SC-SM, CL, GC	A-4, A-2, A-1	0	0-15	35-100	30-100	15-100	5-90	15-30	NP-20
Udifluvents, frequently flooded--------	0-4	Gravelly silt loam	ML, SC, CL, GM	A-4, A-2, A-1	0	0-10	60-80	55-75	30-75	10-65	15-25	NP-20
	4-70	Very gravelly sandy loam, gravelly loamy sand, loam	ML, GC, CL	A-4, A-6, A-1, A-2	0	0-15	35-100	30-100	15-100	5-90	15-30	NP-20
295074												
Lackawanna------	0-2	Moderately decomposed plant material	PT	A-8	0-5	0-5	100	100	---	---	---	---
	2-5	Channery loam	SC-SM, ML, GM	A-4, A-2	0-5	0-15	55-90	45-75	30-70	20-65	20-34	3-11
	5-34	Very gravelly silt loam, channery silt loam, channery loam	ML, SC, CL, GM	A-4, A-6, A-1, A-2	0-5	0-15	55-90	45-75	35-70	25-65	20-35	1-14
	34-60	Silt loam, channery loam, very channery sandy loam	ML, SC-SM, CL, GM	A-4, A-6, A-1, A-2	0-5	0-20	50-90	35-75	20-70	15-65	15-35	1-12
295075												
Lackawanna------	0-2	Moderately decomposed plant material	PT	A-8	0-5	0-5	100	100	---	---	---	---
	2-5	Channery loam	SC-SM, ML, GM	A-4, A-2	0-5	0-15	55-90	45-75	30-70	20-65	20-34	3-11
	5-34	Very gravelly silt loam, channery silt loam, channery loam	ML, SC, CL, GM	A-4, A-6, A-1, A-2	0-5	0-15	55-90	45-75	35-70	25-65	20-35	1-14
	34-60	Silt loam, channery loam, very channery sandy loam	ML, SC-SM, CL, GM	A-4, A-6, A-1, A-2	0-5	0-20	50-90	35-75	20-70	15-65	15-35	1-12

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295076												
Lackawanna------	0-2	Moderately decomposed plant material	PT	A-8	0-5	0-5	100	100	---	---	---	---
	2-5	Channery loam	SC-SM, ML, GM	A-4, A-2	0-5	0-15	55-90	45-75	30-70	20-65	20-34	3-11
	5-34	Very gravelly silt loam, channery silt loam, channery loam	ML, SC, CL, GM	A-4, A-6, A-1, A-2	0-5	0-15	55-90	45-75	35-70	25-65	20-35	1-14
	34-60	Silt loam, channery loam, very channery sandy loam	ML, SC-SM, CL, GM	A-4, A-6, A-1, A-2	0-5	0-20	50-90	35-75	20-70	15-65	15-35	1-12
295082												
Lordstown, stony	0-3	Moderately decomposed plant material	PT	A-8	0-5	0-10	100	100	---	---	---	---
	3-6	Silt loam	SM, ML, GM	A-4	0-5	0-10	65-95	50-92	40-85	30-70	15-30	NP-4
	6-20	Channery silt loam, channery loam	SM, ML, GM	A-4	0-5	0-10	65-90	50-75	40-70	30-65	15-30	NP-4
	20-28	Channery loam, channery silt loam, very channery fine sandy loam	SM, ML, GM	A-4, A-2	0-5	0-15	65-90	50-75	40-70	30-65	15-30	NP-4
	28-32	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
295083												
Lordstown, very stony----------	0-3	Moderately decomposed plant material	PT	A-8	0-7	0-10	100	100	---	---	---	---
	3-6	Silt loam	SM, ML, GM	A-4	1-7	0-10	65-95	50-92	40-85	30-70	15-30	NP-4
	6-20	Channery silt loam, channery loam	SM, ML, GM	A-4	0-5	0-10	65-90	50-75	40-70	30-65	15-30	NP-4
	20-28	Channery loam, channery silt loam, very channery fine sandy loam	SM, ML, GM	A-4, A-2	0-5	0-15	65-90	50-75	40-70	30-65	15-30	NP-4
	28-32	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
Arnot, very stony----------	0-1	Moderately decomposed plant material	PT	A-8	0-5	0-10	100	100	---	---	---	---
	1-3	Channery loam	SM, ML, GM	A-5, A-4, A-2	1-5	0-10	40-90	25-80	20-80	15-70	35-45	1-9
	3-17	Very channery silt loam, very channery loam	SM	A-4, A-2-4, A-1	0-5	2-25	40-70	25-50	20-50	15-45	20-35	1-9
	17-21	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295092												
Morris----------	0-6	Loam	ML, CL-ML, CL	A-4	0-1	0-10	85-95	75-85	60-80	40-70	20-30	1-10
	6-20	Silt loam, gravelly loam	ML, SC-SM, CL	A-4	0-1	0-10	85-95	75-85	60-80	40-70	20-30	1-10
	20-60	Channery silt loam, gravelly loam, channery silty clay loam	SC-SM, SM, CL, GM	A-4, A-2	0-5	0-20	60-90	45-85	35-80	25-70	15-25	NP-9
295093												
Morris----------	0-6	Loam	ML, CL-ML, CL	A-4	0-1	0-10	85-95	75-85	60-80	40-70	20-30	1-10
	6-20	Silt loam, gravelly loam	ML, SC-SM, CL	A-4	0-1	0-10	85-95	75-85	60-80	40-70	20-30	1-10
	20-60	Channery silt loam, gravelly loam, channery silty clay loam	SC-SM, SM, CL, GM	A-4, A-2	0-5	0-20	60-90	45-85	35-80	25-70	15-25	NP-9
295094												
Morris----------	0-6	Loam	ML, CL-ML, CL	A-4	0-1	0-10	85-95	75-85	60-80	40-70	20-30	1-10
	6-20	Silt loam, gravelly loam	ML, SC-SM, CL	A-4	0-1	0-10	85-95	75-85	60-80	40-70	20-30	1-10
	20-60	Channery silt loam, gravelly loam, channery silty clay loam	SC-SM, SM, CL, GM	A-4, A-2	0-5	0-20	60-90	45-85	35-80	25-70	15-25	NP-9
295095												
Neversink-------	0-2	Slightly decomposed plant material	PT	A-8	0-1	0-10	100	100	---	---	---	---
	2-7	Loam	SM, ML	A-4, A-2	0-1	0-10	65-95	50-92	30-85	15-75	15-20	NP-5
	7-23	Gravelly loam, fine sandy loam, gravelly sandy loam	SM, ML, GM	A-4, A-2, A-1	0-3	0-10	65-95	50-92	30-85	15-70	15-20	NP-5
	23-60	Gravelly loam, very gravelly fine sandy loam, gravelly sandy loam	SM, ML, GM	A-4, A-2-4, A-1	0-5	0-15	50-85	35-70	15-65	10-50	15-20	NP-5
295101												
Oquaga----------	0-2	Slightly decomposed plant material	PT	A-8	0-5	0-10	100	100	---	---	---	---
	2-6	Very channery silt loam	SM, ML, GM	A-4, A-5, A-1, A-2	0-5	0-15	45-75	30-60	25-60	20-55	35-45	2-7
	6-36	Very channery loam, very channery silt loam	ML, SM, GC-GM, GM	A-4, A-2, A-1-b	0-5	0-25	45-75	30-60	20-60	20-55	20-30	2-7
	36-40	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295102												
Oquaga	0-2	Slightly decomposed plant material	PT	A-8	0-5	0-10	100	100	---	---	---	---
	2-6	Very channery silt loam	SM, ML, GM	A-4, A-5, A-1, A-2	0-5	0-15	45-75	30-60	25-60	20-55	35-45	2-7
	6-36	Very channery loam, very channery silt loam	ML, SM, GC-GM, GM	A-4, A-2, A-1-b	0-5	0-25	45-75	30-60	20-60	20-55	20-30	2-7
	36-40	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
Arnot	0-1	Moderately decomposed plant material	PT	A-8	0-5	0-10	100	100	---	---	---	---
	1-3	Channery loam	SM, ML, GM	A-5, A-4, A-2	0-5	0-10	40-90	25-80	20-80	15-70	35-45	1-9
	3-17	Very channery silt loam, very channery loam	SM	A-4, A-2-4, A-1	0-5	2-25	40-70	25-50	20-50	15-45	20-35	1-9
	17-21	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
295103												
Oquaga	0-2	Slightly decomposed plant material	PT	A-8	0-5	0-10	100	100	---	---	---	---
	2-6	Very channery silt loam	SM, ML, GM	A-4, A-5, A-1, A-2	0-5	0-15	45-75	30-60	25-60	20-55	35-45	2-7
	6-36	Very channery loam, very channery silt loam	ML, SM, GC-GM, GM	A-4, A-2, A-1-b	0-5	0-25	45-75	30-60	20-60	20-55	20-30	2-7
	36-40	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
Arnot	0-1	Moderately decomposed plant material	PT	A-8	0-5	0-10	100	100	---	---	---	---
	1-3	Channery loam	SM, ML, GM	A-5, A-4, A-2	0-5	0-10	40-90	25-80	20-80	15-70	35-45	1-9
	3-17	Very channery silt loam, very channery loam	SM	A-4, A-2-4, A-1	0-5	2-25	40-70	25-50	20-50	15-45	20-35	1-9
	17-21	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
295105												
Otisville	0-9	Gravelly loamy coarse sand	SM, SW-SM, GM, GW-GM	A-2, A-1-b	0	0-8	65-90	50-75	25-50	10-30	0-35	NP-10
	9-33	Very gravelly sand, very gravelly loamy sand, extremely gravelly loamy coarse sand	SM, GW	A-1-a	0	0-15	40-80	25-55	10-40	0-15	0-26	NP-10
	33-60	Stratified extremely gravelly sand, very gravelly loamy sand	GW, GW-GM	A-1-a	0	0-25	40-75	20-50	10-30	0-15	0-26	NP-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295106												
Otisville-------	0-9	Gravelly loamy coarse sand	SM, SW-SM, GM, GW-GM	A-2, A-1-b	0	0-8	65-90	50-75	25-50	10-30	0-35	NP-10
	9-33	Very gravelly sand, very gravelly loamy sand, extremely gravelly loamy coarse sand	SM, GW	A-1-a	0	0-15	40-80	25-55	10-40	0-15	0-26	NP-10
	33-60	Stratified extremely gravelly sand, very gravelly loamy sand	GW, GW-GM	A-1-a	0	0-25	40-75	20-50	10-30	0-15	0-26	NP-10
295107												
Otisville-------	0-9	Gravelly loamy coarse sand	SM, SW-SM, GM, GW-GM	A-2, A-1-b	0	0-8	65-90	50-75	25-50	10-30	0-35	NP-10
	9-33	Very gravelly sand, very gravelly loamy sand, extremely gravelly loamy coarse sand	SM, GW	A-1-a	0	0-15	40-80	25-55	10-40	0-15	0-26	NP-10
	33-60	Stratified extremely gravelly sand, very gravelly loamy sand	GW, GW-GM	A-1-a	0	0-25	40-75	20-50	10-30	0-15	0-26	NP-10
295109												
Palms-----------	0-12	Muck	PT	A-8	0	0	100	100	---	---	---	---
	12-22	Muck	PT	A-8	0	0	100	100	---	---	---	---
	22-60	Loam, silt loam, gravelly fine sandy loam	SC, SC-SM, CL, CL-ML	A-6, A-7, A-2, A-4	0	0	85-100	75-100	50-100	30-90	20-45	5-20
295110												
Philo-----------	0-10	Silt loam	ML, CL-ML	A-4	0	0-5	85-100	75-100	40-100	20-90	20-35	1-10
	10-38	Silt loam, loam, sandy loam	SM, ML, CL-ML	A-4	0	0-5	85-100	75-100	40-100	20-90	20-35	1-10
	38-45	Silt loam, fine sandy loam, sandy loam	ML, SC-SM, CL-ML, GM	A-4, A-2	0	0-5	65-95	50-92	35-90	20-80	15-30	1-10
	45-60	Gravelly sand, loamy fine sand, gravelly silt loam	ML, SC-SM, CL-ML, GM	A-4, A-2-4	0	0-5	65-95	50-92	25-85	0-70	15-30	1-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295113												
Pompton---------	0-10	Gravelly fine sandy loam	SC-SM, ML, GM	A-4, A-2-4, A-1-b	0	0-5	65-95	50-92	30-85	15-75	20-30	3-10
	10-30	Fine sandy loam, sandy loam, gravelly sandy loam	SM, SC-SM, SC	A-4, A-2-4	0	0-5	65-95	50-92	30-75	15-50	20-30	3-10
	30-60	Stratified gravelly sand, very gravelly loamy sand	SM, SP-SM, GM, GW-GM	A-1-b	0	0-10	40-90	20-75	10-50	0-20	20-30	NP
295114												
Pompton---------	0-10	Gravelly fine sandy loam	SC-SM, ML, GM	A-2-4, A-1-b, A-4	0	0-5	65-95	50-92	30-85	15-75	20-30	3-10
	10-30	Fine sandy loam, sandy loam, gravelly sandy loam	SM, SC-SM, SC	A-4, A-2-4	0	0-5	65-95	50-92	30-75	15-50	20-30	3-10
	30-60	Stratified gravelly sand, very gravelly loamy sand	SM, SP-SM, GM, GW-GM	A-1-b	0	0-10	40-90	20-75	10-50	0-20	20-30	NP
295115												
Pope, occasionally flooded--------	0-3	Silt loam	ML, SM, CL, CL-ML	A-4	0	0-5	85-100	75-100	40-100	20-90	15-30	NP-10
	3-32	Silt loam, sandy loam, loam	SC-SM, SM, CL-ML, ML	A-4, A-2	0	0-5	85-100	75-100	40-100	20-90	15-30	NP-7
	32-60	Sandy loam, loamy sand, fine sandy loam	SC-SM, SM, GM, ML	A-4, A-2, A-1	0	0-15	55-100	45-100	20-85	5-55	15-30	NP-7
295116												
Pope, rarely flooded--------	0-6	Very fine sandy loam	ML, SM, CL, CL-ML	A-4	0	0-5	85-100	75-100	40-100	20-90	15-30	NP-10
	6-31	Silt loam, sandy loam, loam	SC-SM, SM, CL-ML, ML	A-4, A-2	0	0-5	85-100	75-100	40-100	20-90	15-30	NP-7
	31-60	Sandy loam, loamy sand, fine sandy loam	SC-SM, SM, GM, ML	A-4, A-2, A-1	0	0-15	55-100	45-100	20-85	5-55	15-30	NP-7
295117												
Raynham, poorly drained--------	0-8	Silt loam	ML, CL-ML	A-4	0	0	100	96-100	85-100	55-90	15-25	NP-5
	8-30	Silt loam, silt, very fine sandy loam	ML, CL-ML	A-4	0	0	100	96-100	85-100	55-90	15-25	NP-5
	30-62	Silt loam, silt, very fine sandy loam	ML, CL-ML	A-4	0	0	100	96-100	85-100	55-90	15-25	NP-5

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295117												
Raynham, somewhat poorly drained-	0-8	Silt loam	ML, CL-ML	A-4	0	0	100	96-100	85-100	55-90	15-25	NP-5
	8-30	Silt loam, silt, very fine sandy loam	ML, CL-ML	A-4	0	0	100	96-100	85-100	55-90	15-25	NP-5
	30-62	Silt loam, silt, very fine sandy loam	CL-ML, ML	A-4	0	0	100	96-100	85-100	55-90	15-25	NP-5
295118												
Red Hook---------	0-7	Sandy loam	SC-SM, SC, CL-ML, ML	A-6, A-4, A-2-4	0	0-5	85-95	75-92	40-90	20-80	15-40	1-15
	7-38	Silt loam, loam, very gravelly sandy loam	SC-SM, SM, GM, CL	A-4, A-6, A-1, A-2	0	0-5	50-92	35-85	15-80	10-70	15-30	1-15
	38-60	Gravelly loam, gravelly silt loam, very gravelly coarse sandy loam	SP-SC, SM, GM, ML	A-4, A-6, A-1, A-2-4	0	0-10	40-85	25-70	10-65	5-60	15-30	1-15
295119												
Riverhead--------	0-6	Sandy loam	SM, ML	A-4, A-1-b	0	0-5	65-98	50-96	30-85	15-70	14-18	1-3
	6-20	Sandy loam, fine sandy loam, gravelly sandy loam	SM, GM	A-4, A-2, A-1-b	0	0-5	65-98	50-96	30-75	15-50	14-18	1-3
	20-30	Sand, gravelly sandy loam, fine sandy loam	SM, GM	A-4, A-2, A-1-b	0	0-5	60-98	50-96	30-75	15-50	0-28	NP
	30-60	Gravelly sand, very gravelly loamy sand, fine sandy loam	SW-SM, SW, GP, SP	A-1-a	0	0-10	55-98	45-96	20-70	0-30	0-28	NP
295120												
Riverhead--------	0-6	Sandy loam	SM, ML	A-4, A-1-b	0	0-5	65-98	50-96	30-85	15-70	14-18	1-3
	6-20	Sandy loam, fine sandy loam, gravelly sandy loam	SM, GM	A-4, A-2, A-1-b	0	0-5	65-98	50-96	30-75	15-50	14-18	1-3
	20-30	Sand, gravelly sandy loam, fine sandy loam	SM, GM	A-4, A-2, A-1-b	0	0-5	60-98	50-96	30-75	15-50	0-28	NP
	30-60	Gravelly sand, very gravelly loamy sand, fine sandy loam	SW-SM, SW, GP, SP	A-1-a	0	0-10	55-98	45-96	20-70	0-30	0-28	NP

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295121												
Riverhead	0-6	Sandy loam	SM, ML	A-4, A-1-b	0	0-5	65-98	50-96	30-85	15-70	14-18	1-3
	6-20	Sandy loam, fine sandy loam, gravelly sandy loam	SM, GM	A-4, A-2, A-1-b	0	0-5	65-98	50-96	30-75	15-50	14-18	1-3
	20-30	Sand, gravelly sandy loam, fine sandy loam	SM, GM	A-4, A-2, A-1-b	0	0-5	60-98	50-96	30-75	15-50	0-28	NP
	30-60	Gravelly sand, very gravelly loamy sand, fine sandy loam	SW-SM, SW, GP, SP	A-1-a	0	0-10	55-98	45-96	20-70	0-30	0-28	NP
295122												
Scio	0-6	Silt loam	ML	A-4	0	0	95-100	92-100	80-100	50-90	15-20	NP-4
	6-29	Silt loam, very fine sandy loam	ML	A-4	0	0	95-100	92-100	80-100	50-90	15-20	NP-4
	29-60	Stratified very gravelly sand, silt loam	SM, SP, GP-GM, ML	A-3, A-4, A-1, A-2	0	0-10	45-100	30-100	15-100	2-90	10-15	NP-4
295123												
Scriba, stony	0-2	Slightly decomposed plant material	PT	A-8	0-3	0-10	100	100	---	---	---	---
	2-8	Loam	SC-SM, SM, CL-ML, ML	A-4, A-2	0-3	0-10	65-92	50-85	35-80	20-70	15-20	NP-5
	8-20	Channery loam, very gravelly sandy loam, silt loam	ML, SM, CL-ML, GM	A-4, A-2, A-1	0-3	0-10	65-92	50-85	30-80	15-70	15-20	NP-5
	20-60	Channery loam, very gravelly sandy loam, gravelly silt loam	ML, SM, CL-ML, GM	A-4, A-2, A-1	0-5	0-15	45-85	30-70	15-65	10-60	15-20	NP-5
295124												
Scriba, stony	0-2	Slightly decomposed plant material	PT	A-8	0-3	0-10	100	100	---	---	---	---
	2-8	Loam	SC-SM, SM, CL-ML, ML	A-4, A-2	0-3	0-10	65-92	50-85	35-80	20-70	15-20	NP-5
	8-20	Channery loam, very gravelly sandy loam, silt loam	ML, SM, CL-ML, GM	A-4, A-2, A-1	0-3	0-10	65-92	50-85	30-80	15-70	15-20	NP-5
	20-60	Channery loam, very gravelly sandy loam, gravelly silt loam	ML, SM, CL-ML, GM	A-4, A-2, A-1	0-5	0-15	45-85	30-70	15-65	10-60	15-20	NP-5

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295125												
Scriba, extremely stony	0-2	Slightly decomposed plant material	PT	A-8	1-8	0-10	100	100	---	---	---	---
	2-8	Loam	SC-SM, SM, CL-ML, ML	A-4, A-2	1-8	0-10	65-92	50-85	35-80	20-70	15-20	NP-5
	8-20	Channery loam, very gravelly sandy loam, silt loam	ML, SM, CL-ML, GM	A-4, A-2, A-1	0-3	0-10	65-92	50-85	30-80	15-70	15-20	NP-5
	20-60	Channery loam, very gravelly sandy loam, gravelly silt loam	ML, SM, CL-ML, GM	A-4, A-2, A-1	0-5	0-15	45-85	30-70	15-65	10-60	15-20	NP-5
Morris, extremely stony	0-6	Loam	ML, CL-ML, CL	A-4	1-8	0-10	85-95	75-85	60-80	40-70	20-30	1-10
	6-20	Silt loam, gravelly loam	ML, SC-SM, CL	A-4	0-3	0-10	85-95	75-85	60-80	40-70	20-30	1-10
	20-60	Channery silt loam, gravelly loam, channery silty clay loam	SC-SM, SM, CL, GM	A-4, A-2	0-5	0-20	60-90	45-85	35-80	25-70	15-25	NP-9
295126												
Suncook	0-8	Fine sandy loam	SM	A-4, A-2	0	0-1	92-100	85-100	55-85	20-50	0-41	NP
	8-44	Stratified coarse sand to loamy fine sand, loamy sand	SP, SM	A-3, A-2-4, A-1	0	0-1	85-100	70-100	35-80	3-35	0-26	NP
	44-60	Stratified gravelly coarse sand to loamy fine sand, stratified extremely gravelly loamy coarse sand	GP-GM, SM	A-3, A-2, A-1-a	0	0-5	45-100	30-100	15-80	0-35	0-26	NP
295129												
Swartswood	0-1	Gravelly loam	SM, ML, GM	A-4, A-2-4, A-1	0-1	0-10	60-98	45-95	30-85	15-70	22-39	3-11
	1-26	Gravelly loam, flaggy sandy loam, channery fine sandy loam	SM, ML, GM	A-4, A-2-4, A-1	0-5	0-15	60-98	45-95	30-85	15-70	15-25	NP-3
	26-60	Very gravelly fine sandy loam, gravelly sandy loam, channery loam	ML, SM, GM, GW-GM	A-4, A-2, A-1-b	0-5	0-25	45-90	30-75	15-65	10-50	15-20	NP-3

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295130												
Swartswood------	0-1	Gravelly loam	SM, ML, GM	A-4, A-2-4, A-1	0-1	0-10	60-98	45-95	30-85	15-70	22-39	3-11
	1-26	Gravelly loam, flaggy sandy loam, channery fine sandy loam	SM, ML, GM	A-4, A-2-4, A-1	0-5	0-15	60-98	45-95	30-85	15-70	15-25	NP-3
	26-60	Very gravelly fine sandy loam, gravelly sandy loam, channery loam	ML, SM, GM, GW-GM	A-4, A-2, A-1-b	0-5	0-25	45-90	30-75	15-65	10-50	15-20	NP-3
295131												
Swartswood------	0-1	Gravelly loam	SM, ML, GM	A-4, A-2-4, A-1	0-1	0-10	60-98	45-95	30-85	15-70	22-39	3-11
	1-26	Gravelly loam, flaggy sandy loam, channery fine sandy loam	SM, ML, GM	A-4, A-2-4, A-1	0-5	0-15	60-98	45-95	30-85	15-70	15-25	NP-3
	26-60	Very gravelly fine sandy loam, gravelly sandy loam, channery loam	ML, SM, GM, GW-GM	A-4, A-2, A-1-b	0-5	0-25	45-90	30-75	15-65	10-50	15-20	NP-3
295132												
Swartswood, stony----------	0-2	Slightly decomposed plant material	PT	A-8	0-5	0-10	100	100	---	---	---	---
	2-3	Gravelly loam	SM, ML, GM	A-4, A-2-4, A-1	0-5	0-10	60-98	45-95	30-85	15-70	22-39	3-11
	3-28	Gravelly loam, flaggy sandy loam, channery fine sandy loam	SM, ML, GM	A-4, A-2-4, A-1	0-5	0-15	60-98	45-95	30-85	15-70	15-25	NP-3
	28-60	Very gravelly fine sandy loam, gravelly sandy loam, channery loam	ML, SM, GM, GW-GM	A-4, A-2, A-1-b	0-5	0-25	45-90	30-75	15-65	10-50	15-20	NP-3
Lackawanna, stony----------	0-2	Moderately decomposed plant material	PT	A-8	0-5	0-5	100	100	---	---	---	---
	2-5	Channery loam	SC-SM, ML, GM	A-4, A-2	0-5	0-15	55-90	45-75	30-70	20-65	20-34	3-11
	5-34	Very gravelly silt loam, channery silt loam, channery loam	ML, SC, CL, GM	A-4, A-6, A-1, A-2	0-5	0-15	55-90	45-75	35-70	25-65	20-35	1-14
	34-60	Silt loam, channery loam, very channery sandy loam	ML, SC-SM, CL, GM	A-4, A-6, A-1, A-2	0-5	0-20	50-90	35-75	20-70	15-65	15-35	1-12

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295133												
Swartswood, very stony-----	0-2	Slightly decomposed plant material	PT	A-8	1-5	0-10	100	100	---	---	---	---
	2-3	Gravelly loam	SM, ML, GM	A-4, A-2-4, A-1	0-5	0-10	60-98	45-95	30-85	15-70	22-39	3-11
	3-28	Gravelly loam, flaggy sandy loam, channery fine sandy loam	SM, ML, GM	A-4, A-2-4, A-1	0-5	0-15	60-98	45-95	30-85	15-70	15-25	NP-3
	28-60	Very gravelly fine sandy loam, gravelly sandy loam, channery loam	ML, SM, GM, GW-GM	A-4, A-2, A-1-b	0-5	0-25	45-90	30-75	15-65	10-50	15-20	NP-3
Lackawanna, very stony-----	0-2	Moderately decomposed plant material	PT	A-8	1-5	0-5	100	100	---	---	---	---
	2-5	Channery loam	SC-SM, ML, GM	A-4, A-2	1-5	0-15	55-90	45-75	30-70	20-65	20-34	3-11
	5-34	Very gravelly silt loam, channery silt loam, channery loam	ML, SC, CL, GM	A-4, A-6, A-1, A-2	0-5	0-15	55-90	45-75	35-70	25-65	20-35	1-14
	34-60	Silt loam, channery loam, very channery sandy loam	ML, SC-SM, CL, GM	A-4, A-6, A-1, A-2	0-5	0-20	50-90	35-75	20-70	15-65	15-35	1-12
295134												
Swartswood, very stony-----	0-2	Slightly decomposed plant material	PT	A-8	1-5	0-10	100	100	---	---	---	---
	2-3	Gravelly loam	SM, ML, GM	A-4, A-2-4, A-1	0-5	0-10	60-98	45-95	30-85	15-70	22-39	3-11
	3-28	Gravelly loam, flaggy sandy loam, channery fine sandy loam	SM, ML, GM	A-4, A-2-4, A-1	0-5	0-15	60-98	45-95	30-85	15-70	15-25	NP-3
	28-60	Very gravelly fine sandy loam, gravelly sandy loam, channery loam	ML, SM, GM, GW-GM	A-4, A-2, A-1-b	0-5	0-25	45-90	30-75	15-65	10-50	15-20	NP-3

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295134												
Lackawanna, very stony-----	0-2	Moderately decomposed plant material	PT	A-8	1-5	0-5	100	100	---	---	---	---
	2-5	Channery loam	SC-SM, ML, GM	A-4, A-2	1-5	0-15	55-90	45-75	30-70	20-65	20-34	3-11
	5-34	Very gravelly silt loam, channery silt loam, channery loam	ML, SC, CL, GM	A-4, A-6, A-1, A-2	0-5	0-15	55-90	45-75	35-70	25-65	20-35	1-14
	34-60	Silt loam, channery loam, very channery sandy loam	ML, SC-SM, CL, GM	A-4, A-6, A-1, A-2	0-5	0-20	50-90	35-75	20-70	15-65	15-35	1-12
295136												
Tuller, somewhat poorly drained-	0-1	Slightly decomposed plant material	PT	A-8	0-1	0-5	100	100	---	---	---	---
	1-5	Very fine sandy loam	SM, ML, MH	A-7-5	0-3	0-5	85-95	75-92	50-90	30-80	40-55	10-20
	5-12	Channery silt loam, loam, flaggy fine sandy loam	SC-SM, SM, GC-GM, GM	A-4, A-2-4, A-1	0-3	0-15	65-92	50-85	35-75	20-60	20-30	2-7
	12-16	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
Tuller, poorly drained--------	0-1	Slightly decomposed plant material	PT	A-8	0-1	0-5	100	100	---	---	---	---
	1-5	Very fine sandy loam	SM, ML, MH	A-7-5	0-3	0-5	85-95	75-92	50-90	30-80	40-55	10-20
	5-12	Channery silt loam, loam, flaggy fine sandy loam	SC-SM, SM, GC-GM, GM	A-4, A-2-4, A-1	0-3	0-15	65-92	50-85	35-75	20-60	20-30	2-7
	12-16	Unweathered bedrock	---	---	0	0	---	---	---	---	---	---
295137												
Tunkhannock-----	0-6	Gravelly loam	SM, SC	A-6, A-2-4, A-1	0	0-15	65-85	50-75	30-65	15-55	22-45	3-18
	6-38	Gravelly silt loam, cobbly sandy loam, very gravelly very fine sandy loam	SP-SM, SM, GM	A-4, A-2, A-1-b	0	0-25	40-85	30-75	15-65	10-55	15-25	NP-3
	38-60	Gravelly sandy loam, very gravelly loamy sand, stratified very gravelly sand	SM, SP-SM, GM, GW-GM	A-1-a	0	0-30	40-70	25-50	10-35	0-15	15-20	NP-2

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295138												
Tunkhannock-----	0-6	Gravelly loam	SM, SC	A-6, A-2-4, A-1	0	0-15	65-85	50-75	30-65	15-55	22-45	3-18
	6-38	Gravelly silt loam, cobbly sandy loam, very gravelly very fine sandy loam	SP-SM, SM, GM	A-4, A-2, A-1-b	0	0-25	40-85	30-75	15-65	10-55	15-25	NP-3
	38-60	Gravelly sandy loam, very gravelly loamy sand, stratified very gravelly sand	SM, SP-SM, GM, GW-GM	A-1-a	0	0-30	40-70	25-50	10-35	0-15	15-20	NP-2
295139												
Tunkhannock-----	0-6	Gravelly loam	SM, SC	A-6, A-2-4, A-1	0	0-15	65-85	50-75	30-65	15-55	22-45	3-18
	6-38	Gravelly silt loam, cobbly sandy loam, very gravelly very fine sandy loam	SP-SM, SM, GM	A-4, A-2, A-1-b	0	0-25	40-85	30-75	15-65	10-55	15-25	NP-3
	38-60	Gravelly sandy loam, very gravelly loamy sand, stratified very gravelly sand	SM, SP-SM, GM, GW-GM	A-1-a	0	0-30	40-70	25-50	10-35	0-15	15-20	NP-2
295140												
Tunkhannock-----	0-6	Gravelly loam	SM, SC	A-6, A-2-4, A-1	0	0-15	65-85	50-75	30-65	15-55	22-45	3-18
	6-38	Gravelly silt loam, cobbly sandy loam, very gravelly very fine sandy loam	SP-SM, SM, GM	A-4, A-2, A-1-b	0	0-25	40-85	30-75	15-65	10-55	15-25	NP-3
	38-60	Gravelly sandy loam, very gravelly loamy sand, stratified very gravelly sand	SM, SP-SM, GM, GW-GM	A-1-a	0	0-30	40-70	25-50	10-35	0-15	15-20	NP-2
295141												
Tunkhannock-----	0-6	Gravelly loam	SM, SC	A-6, A-2-4, A-1	0	0-15	65-85	50-75	30-65	15-55	22-45	3-18
	6-38	Gravelly silt loam, cobbly sandy loam, very gravelly very fine sandy loam	SP-SM, SM, GM	A-4, A-2, A-1-b	0	0-25	40-85	30-75	15-65	10-55	15-25	NP-3
	38-60	Gravelly sandy loam, very gravelly loamy sand, stratified very gravelly sand	SM, SP-SM, GM, GW-GM	A-1-a	0	0-30	40-70	25-50	10-35	0-15	15-20	NP-2

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295141												
Otisville-------	0-9	Gravelly loamy coarse sand	SM, SW-SM, GM, GW-GM	A-2, A-1-b	0	0-8	65-90	50-75	25-50	10-30	0-35	NP-10
	9-33	Very gravelly sand, very gravelly loamy sand, extremely gravelly loamy coarse sand	SM, GW	A-1-a	0	0-15	40-80	25-55	10-40	0-15	0-26	NP-10
	33-60	Stratified extremely gravelly sand, very gravelly loamy sand	GW, GW-GM	A-1-a	0	0-25	40-75	20-50	10-30	0-15	0-26	NP-10
295142												
Tunkhannock-----	0-6	Gravelly loam	SM, SC	A-6, A-2-4, A-1	0	0-15	65-85	50-75	30-65	15-55	22-45	3-18
	6-38	Gravelly silt loam, cobbly sandy loam, very gravelly very fine sandy loam	SP-SM, SM, GM	A-4, A-2, A-1-b	0	0-25	40-85	30-75	15-65	10-55	15-25	NP-3
	38-60	Gravelly sandy loam, very gravelly loamy sand, stratified very gravelly sand	SM, SP-SM, GM, GW-GM	A-1-a	0	0-30	40-70	25-50	10-35	0-15	15-20	NP-2
Otisville-------	0-9	Gravelly loamy coarse sand	SM, SW-SM, GM, GW-GM	A-2, A-1-b	0	0-8	65-90	50-75	25-50	10-30	0-35	NP-10
	9-33	Very gravelly sand, very gravelly loamy sand, extremely gravelly loamy coarse sand	SM, GW	A-1-a	0	0-15	40-80	25-55	10-40	0-15	0-26	NP-10
	33-60	Stratified extremely gravelly sand, very gravelly loamy sand	GW, GW-GM	A-1-a	0	0-25	40-75	20-50	10-30	0-15	0-26	NP-10
295143												
Udorthents.												
295144												
Unadilla--------	0-5	Silt loam	CL-ML	A-4	0	0	95-100	92-100	80-100	50-90	15-35	NP-10
	5-29	Silt loam, very fine sandy loam	ML, CL-ML	A-4	0	0	95-100	92-100	80-100	50-90	15-25	NP-10
	29-42	Silt loam, very fine sandy loam	ML	A-4	0	0	95-100	92-100	80-100	45-90	0-28	NP
	42-60	Very gravelly sand, gravelly sand, very fine sandy loam	SM, SP, ML, GP	A-4, A-2, A-1	0	0-10	45-100	25-100	10-95	1-65	0-28	NP

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295145												
Unadilla---------	0-5	Silt loam	CL-ML	A-4	0	0	95-100	92-100	80-100	50-90	15-35	NP-10
	5-29	Silt loam, very fine sandy loam	ML, CL-ML	A-4	0	0	95-100	92-100	80-100	50-90	15-25	NP-10
	29-42	Silt loam, very fine sandy loam	ML	A-4	0	0	95-100	92-100	80-100	45-90	0-28	NP
	42-60	Very gravelly sand, gravelly sand, very fine sandy loam	SM, SP, ML, GP	A-4, A-2, A-1	0	0-10	45-100	25-100	10-95	1-65	0-28	NP
295146												
Valois----------	0-1	Moderately decomposed plant material	PT	A-8	0-1	0-5	100	100	---	---	---	---
	1-4	Gravelly sandy loam	ML, SM, GC-GM, GM	A-4, A-2-4, A-1	0-1	0-5	65-95	50-92	30-85	15-75	20-40	1-12
	4-26	Loam, gravelly silt loam, gravelly sandy loam	ML, SM, GC-GM, GM	A-4, A-2, A-1-b	0-1	0-10	65-95	50-92	30-85	15-75	15-25	NP-5
	26-37	Gravelly silt loam, gravelly loam, gravelly sandy loam	ML, SM, GC-GM, GM	A-4, A-2, A-1-b	0-3	0-10	65-85	50-70	30-70	15-65	15-25	NP-5
	37-60	Very gravelly fine sandy loam, gravelly sandy loam, very gravelly loam	SM, GW-GM, GC-GM, GM	A-4, A-2, A-1-b	0-5	0-15	45-85	30-70	15-65	4-45	15-25	NP-7
295147												
Valois----------	0-1	Moderately decomposed plant material	PT	A-8	0-1	0-5	100	100	---	---	---	---
	1-4	Gravelly sandy loam	ML, SM, GC-GM, GM	A-4, A-2-4, A-1	0-1	0-5	65-95	50-92	30-85	15-75	20-40	1-12
	4-26	Loam, gravelly silt loam, gravelly sandy loam	ML, SM, GC-GM, GM	A-4, A-2, A-1-b	0-1	0-10	65-95	50-92	30-85	15-75	15-25	NP-5
	26-37	Gravelly silt loam, gravelly loam, gravelly sandy loam	ML, SM, GC-GM, GM	A-4, A-2, A-1-b	0-3	0-10	65-85	50-70	30-70	15-65	15-25	NP-5
	37-60	Very gravelly fine sandy loam, gravelly sandy loam, very gravelly loam	GW, GW-GM, GC-GM, SM	A-4, A-2, A-1-b	0-5	0-15	45-85	30-70	15-65	4-45	15-25	NP-7

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295148												
Valois----------	0-1	Moderately decomposed plant material	PT	A-8	0-1	0-5	100	100	---	---	---	---
	1-4	Gravelly sandy loam	ML, SM, GC-GM, GM	A-4, A-2-4, A-1	0-1	0-5	65-95	50-92	30-85	15-75	20-40	1-12
	4-26	Loam, gravelly silt loam, gravelly sandy loam	ML, SM, GC-GM, GM	A-4, A-2, A-1-b	0-1	0-10	65-95	50-92	30-85	15-75	15-25	NP-5
	26-37	Gravelly silt loam, gravelly loam, gravelly sandy loam	ML, SM, GC-GM, GM	A-4, A-2, A-1-b	0-3	0-10	65-85	50-70	30-70	15-65	15-25	NP-5
	37-60	Very gravelly fine sandy loam, gravelly sandy loam, very gravelly loam	GW, GW-GM, GC-GM, SM	A-4, A-2, A-1-b	0-5	0-15	45-85	30-70	15-65	4-45	15-25	NP-7
295149												
Valois----------	0-1	Moderately decomposed plant material	PT	A-8	0-1	0-5	100	100	---	---	---	---
	1-4	Gravelly sandy loam	ML, SM, GC-GM, GM	A-4, A-2-4, A-1	0-1	0-5	65-95	50-92	30-85	15-75	20-40	1-12
	4-26	Loam, gravelly silt loam, gravelly sandy loam	ML, SM, GC-GM, GM	A-4, A-2, A-1-b	0-1	0-10	65-95	50-92	30-85	15-75	15-25	NP-5
	26-37	Gravelly silt loam, gravelly loam, gravelly sandy loam	ML, SM, GC-GM, GM	A-4, A-2, A-1-b	0-3	0-10	65-85	50-70	30-70	15-65	15-25	NP-5
	37-60	Very gravelly fine sandy loam, gravelly sandy loam, very gravelly loam	GW, GW-GM, GC-GM, SM	A-4, A-2, A-1-b	0-5	0-15	45-85	30-70	15-65	4-45	15-25	NP-7
295150												
Valois----------	0-1	Moderately decomposed plant material	PT	A-8	0-1	0-5	100	100	---	---	---	---
	1-4	Gravelly sandy loam	ML, SM, GC-GM, GM	A-4, A-2-4, A-1	0-1	0-5	65-95	50-92	30-85	15-75	20-40	1-12
	4-26	Loam, gravelly silt loam, gravelly sandy loam	ML, SM, GC-GM, GM	A-4, A-2, A-1-b	0-1	0-10	65-95	50-92	30-85	15-75	15-25	NP-5
	26-37	Gravelly silt loam, gravelly loam, gravelly sandy loam	ML, SM, GC-GM, GM	A-4, A-2, A-1-b	0-3	0-10	65-85	50-70	30-70	15-65	15-25	NP-5
	37-60	Very gravelly fine sandy loam, gravelly sandy loam, very gravelly loam	GW, GW-GM, GC-GM, SM	A-4, A-2, A-1-b	0-5	0-15	45-85	30-70	15-65	4-45	15-25	NP-7

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295153												
Wayland---------	0-7	Silt loam	OL, ML	A-7, A-5	0	0	96-100	92-100	85-100	70-95	40-50	5-15
	7-20	Silt loam, silty clay loam	ML, CL-ML, CL	A-7, A-4, A-6	0	0	96-100	92-100	85-100	70-95	25-45	5-15
	20-32	Gravelly fine sandy loam, silt loam	CL-ML, CL	A-4	0	0	96-100	92-100	85-100	70-95	15-25	5-10
	32-60	Gravelly fine sandy loam, silt loam	GC, SC, CL, CL-ML	A-4, A-2	0	0	70-100	55-100	35-100	25-90	15-25	5-10
295154												
Wellsboro-------	0-7	Gravelly loam	SC-SM, ML	A-4, A-2	0-1	0-10	70-96	60-92	50-85	35-75	20-34	3-11
	7-23	Loam, channery silt loam, gravelly loam	ML, SC-SM, CL-ML, GC-GM	A-4, A-2	0-2	0-15	70-96	60-92	50-85	35-75	15-30	NP-10
	23-60	Silt loam, channery sandy loam, gravelly loam	ML, SC-SM, CL, GM	A-4, A-2	0-5	0-20	55-90	40-80	25-75	10-65	15-30	NP-10
295155												
Wellsboro-------	0-7	Gravelly loam	SC-SM, ML	A-4, A-2	0-1	0-10	70-96	60-92	50-85	35-75	20-34	3-11
	7-23	Loam, channery silt loam, gravelly loam	ML, SC-SM, CL-ML, GC-GM	A-4, A-2	0-2	0-15	70-96	60-92	50-85	35-75	15-30	NP-10
	23-60	Silt loam, channery sandy loam, gravelly loam	ML, SC-SM, CL, GM	A-4, A-2	0-5	0-20	55-90	40-80	25-75	10-65	15-30	NP-10
295156												
Wellsboro-------	0-7	Gravelly loam	SC-SM, ML	A-4, A-2	0-1	0-10	70-96	60-92	50-85	35-75	20-34	3-11
	7-23	Loam, channery silt loam, gravelly loam	ML, SC-SM, CL-ML, GC-GM	A-4, A-2	0-2	0-15	70-96	60-92	50-85	35-75	15-30	NP-10
	23-60	Silt loam, channery sandy loam, gravelly loam	ML, SC-SM, CL, GM	A-4, A-2	0-5	0-20	55-90	40-80	25-75	10-65	15-30	NP-10
295157												
Wellsboro, extremely stony	0-7	Gravelly loam	SC-SM, ML	A-4, A-2	1-8	0-10	70-96	60-92	50-85	35-75	20-34	3-11
	7-23	Loam, channery silt loam, gravelly loam	ML, SC-SM, CL-ML, GC-GM	A-4, A-2	0-2	0-15	70-96	60-92	50-85	35-75	15-30	NP-10
	23-60	Silt loam, channery sandy loam, gravelly loam	ML, SC-SM, CL, GM	A-4, A-2	0-5	0-20	55-90	40-80	25-75	10-65	15-30	NP-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
295157												
Wurtsboro, extremely stony	0-2	Moderately decomposed plant material	PT	A-8	1-8	0-15	100	100	---	---	---	---
	2-4	Loam	SM, ML, GM	A-4, A-2	1-8	0-15	65-95	50-92	30-85	15-70	22-41	3-11
	4-28	Loam, gravelly sandy loam, channery fine sandy loam	ML, GM	A-4, A-2	0-3	0-15	65-95	50-92	30-85	15-70	15-30	NP-4
	28-60	Gravelly fine sandy loam, very gravelly sandy loam, loam	SM, GM	A-4, A-2, A-1	0-5	0-20	50-92	35-85	15-75	10-60	15-25	NP-4
295162												
Wurtsboro, stony	0-2	Moderately decomposed plant material	PT	A-8	0-3	0-15	100	100	---	---	---	---
	2-4	Loam	SM, ML, GM	A-4, A-2	0-3	0-15	65-95	50-92	30-85	15-70	22-41	3-11
	4-28	Loam, gravelly sandy loam, channery fine sandy loam	ML, GM	A-4, A-2	0-3	0-15	65-95	50-92	30-85	15-70	15-30	NP-4
	28-60	Gravelly fine sandy loam, very gravelly sandy loam, loam	SM, GM	A-4, A-2-4, A-1	0-5	0-20	50-92	35-85	15-75	10-60	15-25	NP-4
295163												
Wurtsboro, stony	0-2	Moderately decomposed plant material	PT	A-8	0-3	0-15	100	100	---	---	---	---
	2-4	Loam	SM, ML, GM	A-4, A-2	0-3	0-15	65-95	50-92	30-85	15-70	22-41	3-11
	4-28	Loam, gravelly sandy loam, channery fine sandy loam	ML, GM	A-4, A-2	0-3	0-15	65-95	50-92	30-85	15-70	15-30	NP-4
	28-60	Gravelly fine sandy loam, very gravelly sandy loam, loam	SM, GM	A-4, A-2-4, A-1	0-5	0-20	50-92	35-85	15-75	10-60	15-25	NP-4
295164												
Wurtsboro, stony	0-2	Moderately decomposed plant material	PT	A-8	0-3	0-15	100	100	---	---	---	---
	2-4	Loam	SM, ML, GM	A-4, A-2	0-3	0-15	65-95	50-92	30-85	15-70	22-41	3-11
	4-28	Loam, gravelly sandy loam, channery fine sandy loam	ML, GM	A-4, A-2	0-3	0-15	65-95	50-92	30-85	15-70	15-30	NP-4
	28-60	Gravelly fine sandy loam, very gravelly sandy loam, loam	SM, GM	A-4, A-2-4, A-1	0-5	0-20	50-92	35-85	15-75	10-60	15-25	NP-4

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
296588												
Arnot	0-4	Channery loam	SM, ML, GM	A-5, A-4, A-2	0	5-10	60-85	55-80	45-80	30-70	35-45	1-9
	4-17	Very channery silt loam, very channery loam	GM	A-4, A-2, A-1	0	10-25	30-60	25-55	20-55	15-50	20-35	1-9
	17-24	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
296589												
Arnot	0-4	Channery loam	SM, ML, GM	A-5, A-4, A-2	0	5-10	60-85	55-80	45-80	30-70	35-45	1-9
	4-17	Very channery silt loam, very channery loam	GM	A-4, A-2, A-1	0	10-25	30-60	25-55	20-55	15-50	20-35	1-9
	17-24	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
296590												
Arnot	0-4	Channery loam	SM, ML, GM	A-5, A-4, A-2	0	5-10	60-85	55-80	45-80	30-70	35-45	1-9
	4-17	Very channery silt loam, very channery loam	GM	A-4, A-2, A-1	0	10-25	30-60	25-55	20-55	15-50	20-35	1-9
	17-24	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
296591												
Barbour	0-12	Loam	SC-SM, SM, CL-ML, ML	A-4, A-2	0	0	80-100	75-100	50-95	30-90	15-25	2-7
	12-28	Silt loam, fine sandy loam, gravelly loam	SC-SM, SM, CL-ML, ML	A-4, A-2, A-1	0	0	60-100	55-95	30-95	15-85	15-25	2-7
	28-60	Very gravelly loamy sand, sand, gravelly loamy fine sand	SM, SP, GM, GP	A-3, A-4, A-1, A-2	0	0-5	35-95	30-95	20-80	2-40	0-0	NP
296592												
Basher	0-14	Silt loam	SC-SM, SM, CL-ML, ML	A-4, A-2, A-1	0	0-5	80-100	75-100	45-100	20-90	15-25	2-7
	14-40	Silt loam, loam, fine sandy loam	SC-SM, SM, CL-ML, ML	A-4, A-2, A-1	0	0-5	75-100	70-100	40-100	20-90	15-25	2-7
	40-56	Silt loam, gravelly loam, very gravelly sandy loam	SC-SM, SM, CL-ML, ML	A-4, A-2, A-1	0	0-5	75-100	70-100	40-100	20-90	15-25	2-7
	56-69	Very gravelly loam, fine sandy loam, gravelly loamy sand, very gravelly sand	SM, SW, GP, ML	A-3, A-4, A-1, A-2	0	0-5	30-100	25-100	10-85	1-55	---	NP

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
296593												
Fluvents	0-6	Gravelly sandy loam	ML, SM, CL-ML, GM	A-4	0	0-20	75-90	60-90	50-80	35-60	10-20	NP-5
	6-60	Cobbly sandy loam, very cobbly loamy sand, gravelly loam	ML, SM, CL-ML, GM	A-4	0	0-20	75-90	60-90	50-90	35-80	10-25	NP-6
Fluvaquents	0-6	Cobbly sandy loam	SC-SM, SM, CL-ML, ML	A-4	0	0-20	75-100	60-85	50-80	35-60	10-20	NP-5
	6-60	Cobbly sandy loam, very gravelly loamy sand, gravelly loam	SC-SM, SM, CL-ML, ML	A-4	0	0-20	75-100	60-85	50-80	35-80	10-25	NP-6
296594												
Holly	0-12	Silt loam	ML	A-4	0	0	90-100	85-100	80-100	70-90	25-35	3-10
	12-28	Silt loam, loam, sandy loam	SM, ML	A-6, A-4	0	0	85-100	75-100	70-95	45-85	20-40	NP-14
	28-42	Silt loam, loam, sandy loam	SM, ML	A-4, A-2	0	0	85-100	75-100	50-95	25-80	20-40	NP-10
	42-60	Stratified gravelly sand to silt loam	SP-SM, SM, ML	A-4, A-2, A-1-b	0	0-5	70-100	65-100	40-90	10-70	20-40	NP-10
296595												
Linden	0-11	Fine sandy loam	SM, ML	A-4	0	0	80-100	80-100	65-100	40-90	---	---
	11-48	Gravelly sandy loam, fine sandy loam, silt loam	SM, ML	A-4, A-2	0	0-5	80-100	65-100	40-95	25-90	15-30	NP-3
	48-65	Very gravelly loamy sand, gravelly sandy loam, very gravelly sand	SM, SP-SM, GM, ML	A-3, A-4, A-1, A-2	0	0-20	40-100	30-100	15-90	5-75	15-25	NP-5
296596												
Lordstown	0-7	Channery loam	SM, ML, GM	A-4	0	5-20	65-85	50-75	45-70	40-65	15-30	NP-4
	7-26	Channery silt loam, channery loam	SM, ML, GM	A-4	0	5-10	65-85	50-75	45-70	40-65	15-30	NP-4
	26-30	Very channery loam, channery loam, very channery fine sandy loam	SM, ML, GM	A-4, A-2, A-1	0	5-25	40-75	30-70	25-70	15-60	15-30	NP-4
	30-42	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
296599												
Lordstown-------	0-7	Channery loam	SM, ML, GM	A-4	2-15	10-25	65-85	50-75	50-75	40-65	15-30	NP-4
	7-26	Channery silt loam, channery loam	SM, ML, GM	A-4	0	5-10	65-85	50-75	50-75	40-65	15-30	NP-4
	26-30	Very channery loam, channery loam, very channery fine sandy loam	SM, ML, GM	A-4, A-2, A-1	0	5-25	40-75	30-70	25-70	15-60	15-30	NP-4
	30-42	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
296600												
Lordstown-------	0-7	Channery loam	SM, ML, GM	A-4	2-15	10-25	65-85	50-75	50-75	40-65	15-30	NP-4
	7-26	Channery silt loam, channery loam	SM, ML, GM	A-4	0	5-10	65-85	50-75	50-75	40-65	15-30	NP-4
	26-30	Very channery loam, channery loam, very channery fine sandy loam	SM, ML, GM	A-4, A-2, A-1	0	5-25	40-75	30-70	25-70	15-60	15-30	NP-4
	30-42	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
296601												
Medihemists-----	0-60	Highly decomposed plant material	PT	A-8	0	0	---	---	---	---	---	---
Medifibrists----	0-60	Moderately decomposed plant material	GP, PT	A-8	0	0	---	---	---	---	---	---
296602												
Mardin----------	0-8	Channery loam	SM, CL, GM, ML	A-4, A-2	2-15	15-30	40-100	40-95	35-90	20-85	15-35	1-12
	8-17	Channery silt loam, loam, channery loam	GC, SC-SM, CL, CL-ML	A-4	0	5-10	60-90	55-90	45-90	35-80	15-25	5-10
	17-21	Channery silt loam, loam, channery loam	GC, SC-SM, CL, CL-ML	A-4	0	5-10	60-90	55-90	45-90	35-80	15-25	5-10
	21-60	Channery loam, channery silt loam, very channery loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0	10-25	40-80	35-75	30-70	20-65	20-30	5-10
	60-80	Channery loam, channery fine sandy loam, very channery silt loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0	10-25	40-80	35-75	30-70	20-65	20-30	5-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
296603												
Mardin	0-8	Channery loam	SM, CL, GM, ML	A-4, A-2	2-15	15-30	40-100	40-95	35-90	20-85	15-35	1-12
	8-17	Channery silt loam, loam, channery loam	GC, SC-SM, CL, CL-ML	A-4	0	5-10	60-90	55-90	45-90	35-80	15-25	5-10
	17-21	Channery silt loam, loam, channery loam	GC, SC-SM, CL, CL-ML	A-4	0	5-10	60-90	55-90	45-90	35-80	15-25	5-10
	21-60	Channery loam, channery silt loam, very channery loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0	10-25	40-80	35-75	30-70	20-65	20-30	5-10
	60-80	Channery loam, channery fine sandy loam, very channery silt loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0	10-25	40-80	35-75	30-70	20-65	20-30	5-10
296604												
Mardin	0-8	Channery loam	SM, CL, GM, ML	A-4, A-2	2-15	15-30	40-100	40-95	35-90	20-85	15-35	1-12
	8-17	Channery silt loam, loam, channery loam	GC, SC-SM, CL, CL-ML	A-4	0	5-10	60-90	55-90	45-90	35-80	15-25	5-10
	17-21	Channery silt loam, loam, channery loam	GC, SC-SM, CL, CL-ML	A-4	0	5-10	60-90	55-90	45-90	35-80	15-25	5-10
	21-60	Channery loam, channery silt loam, very channery loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0	10-25	40-80	35-75	30-70	20-65	20-30	5-10
	60-80	Channery loam, channery fine sandy loam, very channery silt loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0	10-25	40-80	35-75	30-70	20-65	20-30	5-10
296605												
Mardin	0-8	Channery loam	SM, CL, GM, ML	A-4, A-2	2-15	15-30	40-100	40-95	35-90	20-85	15-35	1-12
	8-17	Channery silt loam, loam, channery loam	GC, SC, CL, CL-ML	A-4	0	5-10	60-90	55-90	45-90	35-80	15-25	5-10
	17-21	Channery silt loam, loam, channery loam	GC, SC, CL, CL-ML	A-4	0	5-10	60-90	55-90	45-90	35-80	15-25	5-10
	21-60	Channery loam, channery silt loam, very channery loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0	10-25	40-80	35-75	30-70	20-65	20-30	5-10
	60-80	Channery loam, channery fine sandy loam, very channery silt loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0-2	10-25	40-80	35-75	30-70	20-65	20-30	5-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
296606												
Mardin	0-8	Channery loam	SM, CL, GM, ML	A-4, A-2	2-15	15-30	40-100	40-95	35-90	20-85	15-35	1-12
	8-17	Channery silt loam, loam, channery loam	GC, SC, CL, CL-ML	A-4	0	5-10	60-90	55-90	45-90	35-80	15-25	5-10
	17-21	Channery silt loam, loam, channery loam	GC, SC, CL, CL-ML	A-4	0	5-10	60-90	55-90	45-90	35-80	15-25	5-10
	21-60	Channery loam, channery silt loam, very channery loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0	10-25	40-80	35-75	30-70	20-65	20-30	5-10
	60-80	Channery loam, channery fine sandy loam, very channery silt loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0-2	10-25	40-80	35-75	30-70	20-65	20-30	5-10
296608												
Morris	0-8	Channery loam	ML, SM, CL, GM	A-4, A-2	0	0-15	60-95	50-75	40-75	30-65	20-30	1-10
	8-17	Channery loam	ML, SM, CL, GM	A-4, A-2	0	0-15	60-95	50-75	40-75	30-65	20-30	1-10
	17-70	Channery silt loam, channery loam, very channery silt loam	SM, GM, CL	A-4, A-2	0	0-20	60-95	45-80	40-80	25-75	15-25	NP-9
	70-80	Channery silt loam, channery loam, very channery silt loam	SM, GM, CL	A-4, A-2	0	0-20	60-95	45-80	40-80	25-75	15-25	NP-9
296609												
Morris	0-8	Channery loam	ML, SM, CL, GM	A-4, A-2	0	0-15	60-95	50-75	40-75	30-65	20-30	1-10
	8-17	Channery loam	ML, SM, CL, GM	A-4, A-2	0	0-15	60-95	50-75	40-75	30-65	20-30	1-10
	17-70	Channery silt loam, channery loam, very channery silt loam	SM, GM, CL	A-4, A-2	0	0-20	60-95	45-80	40-80	25-75	15-25	NP-9
	70-80	Channery silt loam, channery loam, very channery silt loam	SM, GM, CL	A-4, A-2	0	0-20	60-95	45-80	40-80	25-75	15-25	NP-9

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
296610												
Morris	0-8	Channery loam	ML, SM, CL, GM	A-4, A-2	2-15	5-25	60-95	55-85	40-80	30-70	20-30	1-10
	8-17	Channery loam	ML, SM, CL, GM	A-4, A-2	2-15	5-25	60-95	55-85	40-80	30-70	20-30	1-10
	17-70	Channery silt loam, channery loam, very channery silt loam	SM, GM, CL	A-4, A-2	0	0-20	60-95	45-80	40-80	25-75	15-25	NP-9
	70-80	Channery silt loam, channery loam, very channery silt loam	SM, GM, CL	A-4, A-2	0	0-20	60-95	45-80	40-80	25-75	15-25	NP-9
296611												
Morris	0-8	Channery loam	ML, SM, CL, GM	A-4, A-2	2-15	5-25	60-95	55-85	40-80	30-70	20-30	1-10
	8-17	Channery loam	ML, SM, CL, GM	A-4, A-2	2-15	5-25	60-95	55-85	40-80	30-70	20-30	1-10
	17-70	Channery loam, channery silt loam, very channery loam	ML, SM, CL, GM	A-4, A-2	0	0-20	60-95	45-80	40-80	25-75	15-25	NP-9
	70-80	Channery loam, channery silt loam, very channery loam	ML, SM, CL, GM	A-4, A-2	0	0-20	60-95	45-80	40-80	25-75	15-25	NP-9
296613												
Norwich	0-8	Channery silt loam	OL, SM, GM, ML	A-7, A-5	2-15	15-25	70-90	65-85	60-80	40-75	40-50	5-15
	8-16	Channery silt loam, channery loam, loam	SM, CL, ML, CL-ML, GM	A-4	0	0-15	65-95	65-90	60-85	40-80	25-35	5-10
	16-48	Channery silt loam, channery loam, very channery sandy loam	SC, SC-SM, CL-ML, GC	A-4, A-2	0	10-25	60-90	55-70	35-70	20-65	15-25	5-10
	48-80	Very channery silt loam, channery loam, channery silt loam	SM, GC, ML, CL-ML, GM	A-4, A-2	0	10-15	60-80	55-70	45-70	30-65	25-35	5-10
Chippewa	0-8	Channery silt loam	SM, ML, GM	A-7, A-5	2-15	5-25	65-90	60-70	50-70	35-65	40-50	5-15
	8-16	Channery silt loam, loam, channery silty clay loam	ML, SC-SM, CL-ML, GM	A-4	0	5-10	65-85	60-85	45-85	35-75	25-35	5-10
	16-48	Very channery silt loam, channery loam, channery silt loam	GC, SC, CL, CL-ML	A-4, A-2	0	10-15	60-80	55-70	45-70	30-65	15-25	5-10
	48-80	Very channery silt loam, channery loam, channery silt loam	SM, GC, ML, CL-ML, GM	A-4, A-2	0	10-15	60-80	55-70	45-70	30-65	25-35	5-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
296614												
Oquaga	0-7	Channery loam	SM, ML, GM	A-5, A-4, A-2	0	5-20	50-85	40-70	35-70	25-65	35-45	2-7
	7-30	Extremely channery silt loam, very channery silt loam, very channery loam	ML, SM, GC-GM, GM	A-4, A-2, A-1	0	10-25	35-70	25-60	20-60	15-55	20-30	2-7
	30-42	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
296615												
Oquaga	0-7	Channery loam	SM, ML, GM	A-5, A-4, A-2	0	5-20	50-85	40-70	35-70	25-65	35-45	2-7
	7-30	Extremely channery silt loam, very channery loam, very channery silt loam	ML, SM, GC-GM, GM	A-4, A-2, A-1	0	10-25	35-70	25-60	20-60	15-55	20-30	2-7
	30-42	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
296616												
Oquaga	0-7	Channery loam	SM, ML, GM	A-5, A-4, A-2	0	5-20	50-85	40-70	35-70	25-65	35-45	2-7
	7-30	Extremely channery silt loam, very channery loam, very channery silt loam	ML, SM, GC-GM, GM	A-4, A-2, A-1	0	10-25	35-70	25-60	20-60	15-55	20-30	2-7
	30-42	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
296617												
Oquaga	0-7	Channery loam	SM, ML, GM	A-5, A-4, A-2	2-15	10-25	50-85	40-70	35-70	25-65	35-45	2-7
	7-30	Extremely channery silt loam, very channery silt loam, very channery loam	ML, SM, GC-GM, GM	A-4, A-2, A-1	0	10-25	35-70	25-60	20-60	15-55	20-30	2-7
	30-42	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
296618												
Oquaga	0-7	Channery loam	SM, ML, GM	A-5, A-4, A-2	2-15	10-25	50-85	40-70	35-70	25-65	35-45	2-7
	7-30	Extremely channery silt loam, very channery silt loam, very channery loam	ML, SM, GC-GM, GM	A-4, A-2, A-1	0	10-25	35-70	25-60	20-60	15-55	20-30	2-7
	30-42	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
296619												
Oquaga	0-7	Channery loam	SM, ML, GM	A-5, A-4, A-2	2-15	10-25	50-85	40-70	35-70	25-65	35-45	2-7
	7-30	Extremely channery silt loam, very channery silt loam, very channery loam	ML, SM, GC-GM, GM	A-4, A-2, A-1	0	10-25	35-70	25-60	20-60	15-55	20-30	2-7
	30-42	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
296619												
Lordstown-------	0-7	Channery silt loam	SM, ML, GM	A-4	2-15	10-25	65-85	50-75	50-75	40-65	15-30	NP-4
	7-26	Channery silt loam	SM, ML, GM	A-4	2-15	10-25	65-85	50-75	50-75	40-65	15-30	NP-4
	26-30	Very channery silt loam, channery silt loam, very channery fine sandy loam	SM, ML, GM	A-4, A-2, A-1	0	5-25	40-75	30-70	25-70	15-60	15-30	NP-4
	30-42	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
296622												
Rexford, poorly drained--------	0-8	Silt loam	SC, SM, CL, ML	A-4, A-2	0	0-5	95-100	80-100	75-95	30-90	15-35	NP-10
	8-18	Gravelly sandy loam, loam, silt loam	SM, ML, GM	A-4, A-2	0	0-10	60-100	50-100	40-85	25-70	20-35	NP-5
	18-40	Gravelly sandy loam, gravelly loam, silt loam	SM, ML, GM	A-4, A-2	0	0-10	60-100	50-100	40-85	25-70	20-35	NP-5
	40-63	Stratifed gravel and very gravelly sandy loam	SP, SP-SM, GP-GM, GW	A-2, A-1	0	0-20	40-55	30-50	10-40	4-35	10-15	NP
Rexford, somewhat poorly drained-	0-8	Silt loam	SC, SM, CL, ML	A-4, A-2	0	0-5	95-100	80-100	75-95	30-90	15-35	NP-10
	8-18	Gravelly sandy loam, loam, silt loam	SM, ML, GM	A-4, A-2	0	0-10	60-100	50-100	40-85	25-70	20-35	NP-5
	18-40	Gravelly sandy loam, gravelly loam, silt loam	SM, ML, GM	A-4, A-2	0	0-10	60-100	50-100	40-85	25-70	20-35	NP-5
	40-63	Error	SP, SP-SM, GP-GM, GW	A-2, A-1	0	0-20	40-55	30-50	10-40	4-35	10-15	NP
296623												
Arnot-----------	0-4	Channery loam	SM, ML, GM	A-5, A-4, A-2	0	5-10	60-85	55-80	45-80	30-70	35-45	1-9
	4-17	Very channery silt loam, very channery loam	GM	A-4, A-2, A-1	0	10-25	30-60	25-55	20-55	15-50	20-35	1-9
	17-24	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
296625												
Swartswood------	0-28	Channery sandy loam	SM, ML, GM	A-4, A-2, A-1	0	0-20	60-90	50-75	30-60	15-55	---	---
	28-60	Channery fine sandy loam, very channery sandy loam, channery loam	ML, SM, GM, GW-GM	A-4, A-2, A-1	0	5-25	50-85	35-80	20-75	10-60	15-20	NP-3

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
296628												
Swartswood------	0-28	Channery sandy loam	SM, ML, GM	A-4, A-2, A-1	2-15	15-25	60-90	50-85	30-80	15-65	---	---
	28-60	Channery fine sandy loam, very channery sandy loam, channery loam	ML, SM, GM, GW-GM	A-4, A-2, A-1	0	5-25	50-80	35-80	20-70	10-60	15-20	NP-3
296630												
Volusia---------	0-8	Channery silt loam	GC, SC, CL, CL-ML	A-4	0	5-10	70-85	65-80	55-80	40-70	15-25	5-10
	8-15	Channery silt loam, channery loam	GC-GM, SC, CL, CL-ML	A-4	0	5-10	65-90	60-85	50-85	35-75	15-25	5-10
	15-70	Channery silt loam, channery loam, very channery silt loam	SC, SC-SM, CL, CL-ML	A-4	0	10-25	75-90	70-85	60-85	40-80	20-30	5-10
	70-80	Very channery loam, channery loam, very channery silt loam	GC-GM, SC, CL, CL-ML	A-4, A-2, A-1	0	10-25	40-90	35-85	30-85	20-75	20-30	5-10
296632												
Volusia---------	0-8	Channery silt loam	SC, GC, CL-ML	A-4	2-15	5-25	65-85	60-80	50-80	35-70	15-25	5-10
	8-15	Channery silt loam, channery loam	GC-GM, SC, CL, CL-ML	A-4	0	5-10	65-90	60-85	50-85	35-75	15-25	5-10
	15-70	Channery silt loam, channery loam, very channery silt loam	SC, SC-SM, CL, CL-ML	A-4	0	10-25	75-90	70-85	60-85	40-80	20-30	5-10
	70-80	Very channery loam, channery loam, very channery silt loam	GC-GM, SC, CL, CL-ML	A-4, A-2, A-1	0-2	10-25	40-90	35-85	30-85	20-75	20-30	5-10
296633												
Volusia---------	0-8	Channery silt loam	SC, CL, CL-ML, GC	A-4	2-15	5-25	65-85	60-80	50-80	35-70	15-25	5-10
	8-15	Channery silt loam, channery loam, silt loam	GC-GM, SC, CL, CL-ML	A-4	0	5-10	65-90	60-85	50-85	35-75	15-25	5-10
	15-70	Channery silt loam, channery loam, silty clay loam	SC, SC-SM, CL, CL-ML	A-4	0	10-25	75-90	70-85	60-85	40-80	20-30	5-10
	70-80	Very channery loam, channery loam, channery silt loam	GC-GM, SC, CL, CL-ML	A-4, A-2, A-1	0-2	10-25	40-90	35-85	30-85	20-75	20-30	5-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
296634												
Wellsboro-------	0-8	Channery loam	SM, CL, GM, ML	A-4, A-2	2-15	15-30	40-100	40-95	35-90	20-85	15-35	1-12
	8-17	Channery loam, channery silt loam, gravelly loam	ML, SM, CL-ML, GC-GM	A-4, A-2	0	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	17-21	Channery loam, channery silt loam, gravelly loam	ML, SM, CL-ML, GC-GM	A-4, A-2	0	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	21-60	Very channery loam, channery sandy loam, channery silt loam	ML, SM, CL, GM	A-4, A-2	0	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
	60-80	Very channery silt loam, channery sandy loam, channery loam	ML, SM, CL, GM	A-4, A-2	0	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
296635												
Wellsboro-------	0-8	Channery loam	SM, CL, GM, ML	A-4, A-2	2-15	15-30	40-100	40-95	35-90	20-85	15-35	1-12
	8-17	Channery loam, channery silt loam, gravelly loam	ML, SM, CL-ML, GC-GM	A-4, A-2	0	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	17-21	Channery loam, channery silt loam, gravelly loam	ML, SM, CL-ML, GC-GM	A-4, A-2	0	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	21-60	Very channery loam, channery sandy loam, channery silt loam	ML, SM, CL, GM	A-4, A-2	0	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
	60-80	Very channery silt loam, channery sandy loam, channery loam	ML, SM, CL, GM	A-4, A-2	0	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
296636												
Wellsboro-------	0-8	Channery loam	SM, CL, GM, ML	A-4, A-2	2-15	15-30	40-100	40-95	35-90	20-85	15-35	1-12
	8-17	Channery loam, channery silt loam, gravelly loam	ML, SM, CL-ML, GC-GM	A-4, A-2	0	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	17-21	Channery loam, channery silt loam, gravelly loam	ML, SM, CL-ML, GC-GM	A-4, A-2	0	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	21-60	Very channery loam, channery sandy loam, channery silt loam	ML, SM, CL, GM	A-4, A-2	0	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
	60-80	Very channery silt loam, channery sandy loam, channery loam	ML, SM, CL, GM	A-4, A-2	0	0-20	55-90	45-90	35-80	25-60	15-30	NP-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
296637												
Wellsboro-------	0-8	Channery loam	SM, CL, GM, ML	A-4, A-2	2-15	15-30	40-100	40-95	35-90	20-85	15-35	1-12
	8-17	Channery loam, channery silt loam, gravelly loam	ML, SM, CL-ML, GC-GM	A-4, A-2	0	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	17-21	Channery loam, channery silt loam, gravelly loam	ML, SM, CL-ML, GC-GM	A-4, A-2	0	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	21-60	Very channery loam, channery sandy loam, channery silt loam	ML, SM, CL, GM	A-4, A-2	0	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
	60-80	Very channery silt loam, channery sandy loam, channery loam	ML, SM, CL, GM	A-4, A-2	0	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
296638												
Wellsboro-------	0-8	Channery loam	SM, CL, GM, ML	A-4, A-2	2-15	15-30	40-100	40-95	35-90	20-85	15-35	1-12
	8-17	Channery loam, channery silt loam, gravelly loam	ML, SM, CL-ML, GC-GM	A-4, A-2	0	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	17-21	Channery loam, channery silt loam, gravelly loam	ML, SM, CL-ML, GC-GM	A-4, A-2	0	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	21-60	Very channery loam, channery sandy loam, channery silt loam	ML, SM, CL, GM	A-4, A-2	0	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
	60-80	Very channery silt loam, channery sandy loam, channery loam	ML, SM, CL, GM	A-4, A-2	0	0-20	55-90	45-90	35-80	25-60	15-30	NP-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
296639												
Wellsboro	0-8	Channery loam	SM, CL, GM, ML	A-4, A-2	2-15	15-30	40-100	40-95	35-90	20-85	15-35	1-12
	8-17	Loam, channery silt loam, channery loam	SM, SC-SM, ML, CL-ML, GC-GM	A-4, A-2	0	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	17-21	Loam, channery silt loam, channery loam	SM, SC-SM, ML, CL-ML, GC-GM	A-4, A-2	0	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	21-60	Very channery loam, channery sandy loam, channery silt loam	ML, SM, CL, GM	A-4, A-2	0	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
	60-80	Channery loam, gravelly silt loam, very channery sandy loam, loam	ML, SM, CL, GM	A-4, A-2	0-2	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
Mardin	0-8	Channery loam	SM, CL, GM, ML	A-4, A-2	2-15	15-30	40-100	40-95	35-90	20-85	15-35	1-12
	8-17	Channery silt loam, loam, channery loam	GC, SC, CL, CL-ML	A-4	0	5-10	60-90	55-90	45-90	35-80	15-25	5-10
	17-21	Channery silt loam, loam, channery loam	GC, SC, CL, CL-ML	A-4	0	5-10	60-90	55-90	45-90	35-80	15-25	5-10
	21-60	Channery loam, channery silt loam, very channery loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0	10-25	40-80	35-75	30-70	20-65	20-30	5-10
	60-80	Channery loam, channery fine sandy loam, very channery silt loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0-2	10-25	40-80	35-75	30-70	20-65	20-30	5-10
296640												
Wyoming	0-7	Gravelly sandy loam	SP-SM, SW-SM, GM, SM	A-3, A-2, A-1	0	0-15	40-90	30-80	10-60	8-35	15-30	NP-5
	7-25	Gravelly sandy loam, very gravelly sandy loam	SM, SP-SM, GM, GP-GM	A-3, A-2, A-1	0	0-25	40-75	35-70	5-55	5-35	15-30	NP-5
	25-60	Extremely gravelly loamy coarse sand, very gravelly sand, gravelly sandy loam	GP-GM, GW, SM, SW	A-1	0	5-30	30-65	20-55	5-50	1-13	15-25	NP-5

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
296641												
Wyoming	0-7	Gravelly sandy loam	SP-SM, SW-SM, GM, SM	A-3, A-2, A-1	0	0-15	40-90	30-80	10-60	8-35	15-30	NP-5
	7-25	Gravelly sandy loam, very gravelly sandy loam	SM, SP-SM, GM, GP-GM	A-3, A-2, A-1	0	0-25	40-75	35-70	5-55	5-35	15-30	NP-5
	25-60	Extremely gravelly loamy coarse sand, very gravelly sand, gravelly sandy loam	GP-GM, GW, SM, SW	A-1	0	5-30	30-65	20-55	5-50	1-13	15-25	NP-5
296642												
Wyoming	0-7	Gravelly sandy loam	SP-SM, SW-SM, GM, SM	A-3, A-2, A-1	0	0-15	40-90	30-80	10-60	8-35	15-30	NP-5
	7-25	Gravelly sandy loam, very gravelly sandy loam	SM, SP-SM, GM, GP-GM	A-3, A-2, A-1	0	0-25	40-75	35-70	5-55	5-35	15-30	NP-5
	25-60	Extremely gravelly loamy coarse sand, very gravelly sand, gravelly sandy loam	GP-GM, GW, SM, SW	A-1	0	5-30	30-65	20-55	5-50	1-13	15-25	NP-5
296643												
Wyoming	0-7	Gravelly sandy loam	SP-SM, SW-SM, GM, SM	A-3, A-2, A-1	0	0-15	40-90	30-80	10-60	8-35	15-30	NP-5
	7-25	Gravelly sandy loam, very gravelly sandy loam	SM, SP-SM, GM, GP-GM	A-3, A-2, A-1	0	0-25	40-75	35-70	5-55	5-35	15-30	NP-5
	25-60	Extremely gravelly loamy coarse sand, very gravelly sand, gravelly sandy loam	GP-GM, GW, SM, SW	A-1	0	5-30	30-65	20-55	5-50	1-13	15-25	NP-5
297185												
Edgemere	0-2	Extremely stony mucky peat	PT	A-8	0	0	0	100	---	---	0-14	NP
	2-5	Extremely stony loam, extremely stony silt loam	OL, SM, GM, ML	A-7, A-5	10-30	5-25	70-90	65-85	60-80	40-75	40-50	5-15
	5-24	Very stony loam, very stony sandy loam	SM, CL, GM, ML	A-4	5-20	5-20	65-95	65-90	60-85	40-80	25-35	5-10
	24-66	Very gravelly sandy loam, very gravelly loam	SC-SM, SC, CL-ML, GC	A-4, A-2	1-5	10-25	60-90	55-70	35-70	20-65	15-25	5-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
297185												
Shohola	0-3	Very flaggy loam	SM, CL, GM, ML	A-6, A-4	5-20	15-35	70-90	65-85	60-80	40-75	20-30	3-15
	3-24	Very flaggy loam, extremely flaggy silt loam, extremely flaggy fine sandy loam	SM, CL, ML, CL-ML, GM	A-6, A-4	1-5	0-15	65-95	65-90	60-85	40-80	15-25	3-12
	24-72	Very flaggy fine sandy loam, very gravelly sandy loam, very gravelly loam	SC, SC-SM, CL-ML, GC	A-4, A-2	1-5	10-25	60-90	55-70	35-70	20-65	15-25	NP-10
297186												
Edgemere	0-2	Extremely stony mucky peat	PT	A-8	10-20	5-12	5-10	100	---	---	20-40	NP
	2-5	Extremely stony loam, extremely stony silt loam	OL, SM, GM, ML	A-7, A-5	10-30	5-25	70-90	65-85	60-80	40-75	40-50	5-15
	5-24	Very stony loam, very stony sandy loam	SM, CL, GM, ML	A-4	5-20	5-20	65-95	65-90	60-85	40-80	25-35	5-10
	24-66	Very gravelly sandy loam, very gravelly loam	SC-SM, SC, CL-ML, GC	A-4, A-2	1-5	10-25	60-90	55-70	35-70	20-65	15-25	5-10
297188												
Manlius	0-5	Very channery silt loam	GM, GC-GM	A-4, A-2, A-1	0-1	10-25	45-55	40-50	30-50	20-45	25-35	4-10
	5-24	Very channery silt loam, very channery loam	GW-GM, GM, GC-GM	A-4, A-2, A-1	0	10-25	25-60	20-55	15-55	10-50	25-35	4-10
	24-30	Very channery silt loam, extremely channery loam	GW-GM, GM, GC-GM	A-4, A-2, A-1	0-1	10-25	15-60	10-55	5-55	5-50	25-35	4-10
	30-40	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
Arnot	0-3	Very channery loam	SM, ML, GM	A-5, A-4, A-2	25-55	15-30	60-85	55-80	45-80	30-70	35-45	1-9
	3-14	Very channery silt loam, very channery loam	GM	A-4, A-2, A-1	0	10-25	30-60	25-55	20-55	15-50	20-35	1-9
	14-24	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
297189												
Manlius	0-5	Very channery silt loam	GM, GC-GM	A-4, A-2, A-1	0-1	10-25	45-55	40-50	30-50	20-45	25-35	4-10
	5-24	Very channery silt loam, very channery loam	GW-GM, GM, GC-GM	A-4, A-2, A-1	0	10-25	25-60	20-55	15-55	10-50	25-35	4-10
	24-30	Very channery silt loam, extremely channery loam	GW-GM, GM, GC-GM	A-4, A-2, A-1	0-1	10-25	15-60	10-55	5-55	5-50	25-35	4-10
	30-40	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
Arnot	0-3	Very channery loam	SM, ML, GM	A-5, A-4, A-2	25-55	15-30	60-85	55-80	45-80	30-70	35-45	1-9
	3-14	Very channery silt loam, very channery loam	GM	A-4, A-2, A-1	0	10-25	30-60	25-55	20-55	15-50	20-35	1-9
	14-24	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
297190												
Braceville	0-11	Fine sandy loam	SC-SM, SM, ML	A-4	0	0-1	95-100	90-100	80-95	45-55	10-20	NP-10
	11-27	Fine sandy loam, gravelly fine sandy loam	SC-SM, SM, ML	A-4	0	0-1	95-100	80-100	40-80	40-55	10-20	NP-10
	27-48	Fine sandy loam	SC-SM, SM, ML	A-4	0	0-5	80-100	70-100	60-90	45-55	10-25	NP-10
	48-70	Loamy sand	SM, ML	A-4	0	0-8	80-100	65-100	60-85	20-55	10-15	NP
297191												
Wyalusing	0-6	Fine sandy loam	SM, ML	A-4	0	0-5	95-100	95-100	70-100	40-90	25-35	NP-10
	6-31	Loam, fine sandy loam, gravelly loam	SM, ML	A-4, A-2	0-1	15-25	80-100	75-100	40-70	20-60	20-35	NP-10
	31-70	Very cobbly loamy sand, gravelly loam, fine sandy loam	SM, GM	A-4, A-2, A-1	0-5	15-50	40-60	30-55	20-40	4-40	15-25	NP-5
297192												
Pope	0-6	Fine sandy loam	SC-SM, SM, CL-ML, ML	A-4, A-2	0	0	85-100	75-100	51-85	25-55	15-20	NP-5
	6-33	Fine sandy loam, sandy loam, loam	SC-SM, SM, CL-ML, ML	A-4, A-2	0	0	95-100	80-100	51-95	25-75	15-30	NP-7
	33-70	Sandy loam, loamy sand	SC-SM, SM, GM, ML	A-4, A-2, A-1	0	0-15	45-100	35-100	30-95	15-70	15-30	NP-7
297193												
Paupack	0-3	Mucky peat	GW, PT	A-1, A-8	0	0	0	---	---	---	0-14	NP
	3-26	Muck	GP, PT	A-1, A-8	0-5	0-10	---	---	---	---	0-14	NP
	26-36	Very stony muck	GW, PT	A-1, A-8	0	0	0	---	---	---	0-14	NP
	36-70	Extremely stony sandy loam, extremely stony loam	SC, GM	A-2, A-1	1-5	5-10	40-90	40-60	30-40	10-25	10-30	NP-15

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
297194												
Morris----------	0-8	Very channery loam	ML, SM, CL, GM	A-4, A-2	1-5	3-20	60-95	55-85	40-80	30-70	20-30	1-10
	8-17	Gravelly fine sandy loam, channery loam, very gravelly fine sandy loam	SC-SM, SM, GM	A-4	0	0-20	60-95	50-85	40-80	25-60	15-25	NP-10
	17-70	Channery loam, channery silt loam, gravelly fine sandy loam	ML, SM, CL, GM	A-4, A-2	0-2	0-20	60-95	45-80	40-80	25-75	15-25	NP-9
	70-80	Channery loam, channery silt loam, gravelly fine sandy loam	ML, SM, CL, GM	A-4, A-2	0-2	0-20	60-95	45-80	40-80	25-75	15-25	NP-9
297196												
Freetown---------	0-6	Mucky peat	GP, PT	A-1, A-8	0	0	---	---	---	---	---	---
	6-72	Muck, mucky peat	GP, PT	A-1, A-8	---	---	---	---	---	---	---	---
297199												
Oquaga----------	0-2	Very stony loam	SM, ML, GM	A-5, A-4, A-2	1-5	10-20	50-85	40-75	35-70	25-65	35-45	2-7
	2-26	Very stony silt loam, very channery loam	ML, SM, GC-GM, GM	A-4, A-2, A-1	0-15	10-25	35-70	25-60	20-60	15-55	20-30	2-7
	26-32	Extremely stony sandy loam, very channery loam	GC-GM, GM, ML, SM	A-4, A-2, A-1	0-15	10-45	35-70	25-60	20-60	15-55	20-30	2-7
	32-42	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
297200												
Oquaga----------	0-2	Very stony loam	SM, ML, GM	A-5, A-4, A-2	1-5	10-20	50-85	40-70	35-70	25-65	35-45	2-7
	2-26	Very stony silt loam, very stony loam	ML, SM, GC-GM, GM	A-4, A-2, A-1	1-15	10-25	35-70	25-60	20-60	15-55	20-30	2-7
	26-32	Extremely stony sandy loam, very channery loam	GC-GM, GM, ML, SM	A-4, A-2, A-1	0-15	10-45	35-70	25-60	20-60	15-55	20-30	2-7
	32-42	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
297201												
Oquaga----------	0-2	Very channery loam	SM, ML, GM	A-5, A-4, A-2	1-5	10-20	50-85	40-70	35-70	25-65	35-45	2-7
	2-26	Very channery silt loam, very stony loam	ML, SM, GC-GM, GM	A-4, A-2, A-1	1-20	10-25	35-70	25-60	20-60	15-55	20-30	2-7
	26-32	Extremely stony sandy loam, very channery loam	GC-GM, GM, ML, SM	A-4, A-2, A-1	0-15	10-45	35-70	25-60	20-60	15-55	20-30	2-7
	32-42	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
297202												
Oquaga	0-2	Very stony loam	SM, ML, GM	A-5, A-4, A-2	4-15	10-25	50-85	40-70	35-70	25-65	35-45	2-7
	2-26	Very stony loam, very channery loam	ML, SM, GC-GM, GM	A-4, A-2, A-1	0-20	10-25	35-70	25-60	20-60	15-55	20-30	2-7
	26-32	Extremely stony sandy loam, very channery loam	GC-GM, GM, ML, SM	A-4, A-2, A-1	0-15	10-45	35-70	25-60	20-60	15-55	20-30	2-7
	32-42	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
Arnot	0-3	Very channery loam	SM, GM, ML	A-5, A-4, A-2	2-15	15-30	60-85	55-80	45-80	30-70	35-45	1-9
	3-14	Very channery silt loam, extremely channery loam	GM	A-4, A-2, A-1	0	10-25	30-60	25-55	20-55	15-50	20-35	1-9
	14-24	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
297203												
Delaware	0-14	Fine sandy loam	SM, ML	A-4	0	0	100	95-100	75-95	45-55	10-15	NP
	14-48	Fine sandy loam, very fine sandy loam	SM, ML	A-4	0	0-1	99-100	95-100	70-90	40-55	10-15	NP
	48-72	Fine sandy loam, loamy fine sand, loamy sand	SM, ML	A-4, A-2	0	0-5	95-100	95-100	80-95	20-55	10-15	NP
297204												
Delaware	0-14	Fine sandy loam	SM, ML	A-4	0	0	100	95-100	75-95	45-55	10-15	NP
	14-48	Fine sandy loam, very fine sandy loam	SM, ML	A-4	0	0-1	99-100	95-100	70-90	40-55	10-15	NP
	48-72	Fine sandy loam, loamy fine sand, loamy sand	SM, ML	A-4, A-2	0	0-5	95-100	95-100	80-95	20-55	10-15	NP
297205												
Delaware	0-14	Fine sandy loam	SM, ML	A-4	0	0	100	95-100	75-95	45-55	10-15	NP
	14-48	Fine sandy loam, very fine sandy loam	SM, ML	A-4	0	0-1	99-100	95-100	70-90	40-55	10-15	NP
	48-72	Fine sandy loam, loamy fine sand, loamy sand	SM, ML	A-4, A-2	0	0-5	95-100	95-100	80-95	20-55	10-15	NP
297207												
Wurtsboro	0-7	Channery fine sandy loam	SM, GM	A-4, A-2	0-1	0-15	70-95	65-75	55-70	30-50	15-25	NP-5
	7-22	Fine sandy loam, gravelly fine sandy loam, channery loam	SM, GM	A-4, A-2	0-2	0-15	70-95	55-90	45-85	30-50	15-30	NP-4
	22-60	Fine sandy loam, gravelly fine sandy loam, very gravelly sandy loam, channery loam	SM, GM	A-4, A-2, A-1	0-2	0-20	50-95	35-90	30-80	20-50	15-30	NP-4

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
297208												
Wurtsboro-------	0-7	Channery fine sandy loam	SM, GM	A-4, A-2	0-1	0-15	70-95	65-75	55-70	30-50	15-25	NP-5
	7-22	Fine sandy loam, gravelly fine sandy loam, gravelly sandy loam, channery loam	SM, GM	A-4, A-2	0-2	0-15	70-95	55-90	45-85	30-50	15-30	NP-4
	22-60	Fine sandy loam, gravelly fine sandy loam, very gravelly sandy loam, channery loam	SM, GM	A-4, A-2, A-1	0-2	0-20	50-95	35-90	30-80	20-50	15-30	NP-4
297209												
Philo-----------	0-6	Loam	ML, CL-ML	A-4	0	0-5	95-100	80-100	75-90	60-80	20-35	1-10
	6-36	Silt loam, loam, fine sandy loam	SM, ML, CL-ML	A-4	0	0-5	95-100	75-100	70-90	45-80	20-35	1-10
	36-70	Stratified sand to very gravelly sandy loam	ML, SM, CL-ML, GM	A-2-4, A-2, A-1	0-2	0-5	45-95	40-90	20-70	10-70	15-30	1-10
297210												
Barbour---------	0-10	Fine sandy loam	SC-SM, SM, CL-ML, ML	A-4, A-2	0	0	80-100	75-100	50-95	30-90	15-25	2-7
	10-38	Silt loam, fine sandy loam, gravelly loam	SC-SM, SM, CL-ML, ML	A-4, A-2, A-1	0	0	60-100	55-95	30-95	15-85	15-25	2-7
	38-72	Loamy fine sand, very cobbly loamy sand, very cobbly sand	SM, SP, GM, GP	A-3, A-4, A-1, A-2	0-1	0-5	35-95	30-95	20-80	2-40	15-25	NP
297211												
Wellsboro-------	0-8	Stony loam	GM, ML, CL, GC	A-4	10-20	5-10	65-75	60-70	50-70	35-60	25-35	5-10
	8-17	Loam, channery silt loam, channery loam	SM, SC-SM, ML, CL-ML, GC-GM	A-4, A-2	0-3	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	17-21	Loam, channery silt loam, channery loam	SM, SC-SM, ML, CL-ML, GC-GM	A-4, A-2	0-3	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	21-60	Channery silt loam, loam, very gravelly fine sandy loam, very channery sandy loam	SM, SC-SM, ML, CL, GM	A-4, A-2	0-5	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
	60-80	Loam, channery silt loam, very gravelly sandy loam, very channery fine sandy loam	SM, SC-SM, ML, CL, GM	A-4, A-2	0-5	0-20	55-90	45-90	35-80	25-60	15-30	NP-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
297212												
Wellsboro-------	0-8	Stony loam	GM, ML, CL, GC	A-4	10-20	5-10	65-75	60-70	50-70	35-60	25-35	5-10
	8-17	Loam, channery silt loam, channery loam	SM, SC-SM, ML, CL-ML, GC-GM	A-4, A-2	0-3	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	17-21	Loam, channery silt loam, channery loam	SM, SC-SM, ML, CL-ML, GC-GM	A-4, A-2	0-3	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	21-60	Loam, very gravelly fine sandy loam, channery silt loam, very channery sandy loam	SM, SC-SM, ML, CL, GM	A-4, A-2	0-5	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
	60-80	Loam, channery silt loam, very gravelly sandy loam, very channery fine sandy loam	SM, SC-SM, ML, CL, GM	A-4, A-2	0-5	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
297213												
Wellsboro-------	0-8	Stony loam	GM, ML, CL, GC	A-4	10-20	5-10	65-75	60-70	50-70	35-60	25-35	5-10
	8-17	Loam, channery silt loam, channery loam	SM, SC-SM, ML, CL-ML, GC-GM	A-4, A-2	0-3	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	17-21	Loam, channery silt loam, channery loam	SM, SC-SM, ML, CL-ML, GC-GM	A-4, A-2	0-3	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	21-60	Loam, very gravelly fine sandy loam, channery silt loam, very channery sandy loam	SM, SC-SM, ML, CL, GM	A-4, A-2	0-5	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
	60-80	Loam, channery silt loam, very gravelly sandy loam, very channery fine sandy loam	SM, SC-SM, ML, CL, GM	A-4, A-2	0-5	0-20	55-90	45-90	35-80	25-60	15-30	NP-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
297215												
Wellsboro-------	0-8	Channery loam	SM, GC-GM, ML, CL, GM	A-4, A-2	0	0-15	40-80	40-75	35-70	20-60	20-40	1-11
	8-17	Loam, channery silt loam, channery loam	SM, SC-SM, ML, CL-ML, GC-GM	A-4, A-2	0-1	0-15	70-100	60-95	55-95	30-70	15-30	NP-10
	17-21	Loam, channery silt loam, channery loam	SM, SC-SM, ML, CL-ML, GC-GM	A-4, A-2	0-1	0-15	70-100	60-95	55-95	30-70	15-30	NP-10
	21-60	Loam, channery fine sandy loam, very channery sandy loam	SM, SC-SM, ML, CL, GM	A-4, A-2	0-2	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
	60-80	Loam, channery silt loam, very gravelly sandy loam, very channery fine sandy loam	SM, SC-SM, ML, CL, GM	A-4, A-2	0-5	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
297216												
Wurtsboro-------	0-4	Stony fine sandy loam	SM, SC-SM, GM, ML	A-4, A-2	15-20	3-5	70-100	65-90	55-90	30-70	20-28	NP-10
	4-22	Fine sandy loam, gravelly fine sandy loam, channery loam	SM, GM	A-4, A-2	0-2	0-15	70-95	55-90	45-85	30-50	15-30	NP-4
	22-70	Gravelly fine sandy loam, fine sandy loam, very gravelly fine sandy loam, channery loam	SM, GM	A-4, A-2, A-1	0-2	0-20	50-95	35-90	30-80	20-50	15-25	NP-4
297217												
Wurtsboro-------	0-4	Stony fine sandy loam	SM, ML, GM	A-4, A-2	15-20	3-5	70-100	65-90	55-90	30-70	20-28	NP-4
	4-22	Fine sandy loam, gravelly fine sandy loam, channery loam	SM, GM	A-4, A-2	0	0-15	70-95	55-90	45-85	30-50	15-30	NP-4
	22-70	Gravelly fine sandy loam, fine sandy loam, very gravelly fine sandy loam, channery loam	SM, GM	A-4, A-2, A-1	0	0-20	50-95	35-90	30-80	20-50	15-25	NP-4

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
297218												
Wurtsboro-------	0-4	Stony fine sandy loam	SM, ML, GM	A-4, A-2	15-20	3-5	70-100	65-90	55-90	30-70	20-28	NP-4
	4-22	Fine sandy loam, gravelly fine sandy loam, channery loam	SM, GM	A-4, A-2	0	0-15	70-95	55-90	45-85	30-50	15-30	NP-4
	22-70	Fine sandy loam, gravelly fine sandy loam, very gravelly fine sandy loam, channery loam	SM, GM	A-4, A-2, A-1	0	0-20	50-95	35-90	30-80	20-50	15-25	NP-4
297221												
Lackawanna------	0-7	Channery loam	SM, CL-ML, ML, CL, GM	A-4, A-2	0-1	15-30	40-100	40-95	35-90	20-85	20-40	1-11
	7-29	Loam, fine sandy loam, channery silt loam	SM, GC, ML, CL, GM	A-4, A-6, A-1, A-2	0-1	0-20	40-80	40-75	35-70	20-60	20-35	1-14
	29-75	Silt loam, channery silt loam, very gravelly sandy loam	ML, SM, CL, GM	A-2, A-4, A-6, A-1	0-2	0-20	50-85	40-80	35-75	20-55	15-35	1-12
297223												
Lackawanna------	0-7	Channery loam	SM, CL-ML, ML, CL, GM	A-4, A-2	0-1	15-30	40-100	40-95	35-90	20-85	20-40	1-11
	7-29	Loam, fine sandy loam, channery silt loam	SM, GC, ML, CL, GM	A-4, A-6, A-1, A-2	0-1	0-20	40-80	40-75	35-70	20-60	20-35	1-14
	29-75	Silt loam, channery silt loam, very gravelly sandy loam	ML, SM, CL, GM	A-2, A-4, A-6, A-1	0-2	0-20	50-85	40-80	35-75	20-55	15-35	1-12
297224												
Swartswood------	0-4	Stony fine sandy loam	SM, ML	A-4, A-2, A-1	15-20	3-15	60-90	50-85	30-80	15-65	15-25	NP-3
	4-32	Channery loam, flaggy sandy loam, channery fine sandy loam	SM, ML, GM	A-4, A-2, A-1	0	0-25	60-90	50-90	30-85	15-65	10-25	NP-3
	32-70	Very gravelly fine sandy loam, flaggy sandy loam, channery loam	ML, SM, GM, GW-GM	A-4, A-2, A-1	0-2	5-25	50-80	35-80	20-70	10-60	10-20	NP-3

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
297225												
Swartswood------	0-4	Stony fine sandy loam	SM, ML	A-4, A-2, A-1	15-20	3-15	60-90	50-85	30-80	15-65	15-25	NP-3
	4-32	Channery loam, flaggy sandy loam, channery fine sandy loam	SM, ML, GM	A-4, A-2, A-1	0	0-25	60-90	50-90	30-85	15-65	10-25	NP-3
	32-70	Very gravelly fine sandy loam, flaggy sandy loam, channery loam	ML, SM, GM, GW-GM	A-4, A-2, A-1	0-2	5-25	50-80	35-80	20-70	10-60	10-20	NP-3
297226												
Swartswood------	0-4	Stony fine sandy loam	SM, ML	A-4, A-2, A-1	15-20	3-15	60-90	50-85	30-80	15-65	15-25	NP-3
	4-32	Channery loam, flaggy sandy loam, channery fine sandy loam	SM, ML, GM	A-4, A-2, A-1	0	0-25	60-90	50-90	30-85	15-65	10-25	NP-3
	32-70	Very gravelly fine sandy loam, flaggy sandy loam, channery loam	ML, SM, GM, GW-GM	A-4, A-2, A-1	0-2	5-25	50-80	35-80	20-70	10-60	10-20	NP-3
297227												
Arnot----------	0-3	Very channery loam	GM	A-4, A-5, A-1, A-2	0	10-25	30-60	25-55	20-55	15-50	35-45	1-9
	3-10	Very channery silt loam, very channery loam	GM	A-4, A-2, A-1	0	10-25	30-60	25-55	20-55	15-50	20-35	1-9
	10-14	Extremely channery loam, very channery loam	GM	A-4, A-2, A-1	0	10-25	30-60	25-55	20-55	15-50	20-35	1-9
	14-24	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
297228												
Arnot----------	0-3	Very channery loam	GM	A-4, A-5, A-1, A-2	0	10-25	30-60	25-55	20-55	15-50	35-45	1-9
	3-10	Very channery silt loam, very channery loam	GM	A-4, A-2, A-1	0	10-25	30-60	25-55	20-55	15-50	20-35	1-9
	10-14	Extremely channery loam, very channery loam	GM	A-4, A-2, A-1	0	10-25	30-60	25-55	20-55	15-50	20-35	1-9
	14-24	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
297229												
Wyoming	0-3	Very cobbly sandy loam	SM, SW-SM, GM, GP-GM	A-3, A-2, A-1	0	20-40	40-90	30-80	10-60	8-35	15-30	NP-5
	3-33	Very cobbly sandy loam, very cobbly fine sandy loam	SM, SP-SM, GM, GP-GM	A-3, A-2, A-1	0	25-40	40-75	35-70	5-55	5-35	15-30	NP-5
	33-72	Extremely cobbly loamy coarse sand, very gravelly sand, gravelly sandy loam	SM, SW, GP-GM, GW	A-1	0-5	40-60	30-65	20-55	5-50	1-13	15-25	NP-5
297230												
Wyoming	0-3	Very cobbly sandy loam	SM, SW-SM, GM, GP-GM	A-3, A-2, A-1	0	20-40	40-90	30-80	10-60	8-35	15-30	NP-5
	3-33	Gravelly sandy loam, very cobbly fine sandy loam, very gravelly sandy loam	SM, SP-SM, GM, GP-GM	A-3, A-2, A-1	0	0-25	40-75	35-70	5-55	5-35	15-30	NP-5
	33-72	Extremely cobbly loamy coarse sand, very gravelly sand, gravelly sandy loam	SM, SW, GP-GM, GW	A-1	0-5	40-60	30-65	20-55	5-50	1-13	15-25	NP-5
297231												
Wyoming	0-3	Very cobbly sandy loam	SM, SW-SM, GM, GP-GM	A-3, A-2, A-1	0	20-40	40-90	30-80	10-60	8-35	0-30	NP-5
	3-33	Very cobbly sandy loam, very cobbly fine sandy loam, very gravelly sandy loam	SM, SP-SM, GM, GP-GM	A-3, A-2, A-1	0-1	20-40	40-75	35-70	5-55	5-35	0-30	NP-5
	33-72	Extremely cobbly loamy coarse sand, very gravelly sand, gravelly sandy loam	SM, SW, GP-GM, GW	A-1	0-5	40-60	30-65	20-55	5-50	1-13	0-25	NP-5
297236												
Suncook	0-10	Loamy sand	SM	A-2	0	0	95-100	85-100	45-85	15-35	0-14	NP-1
	10-70	Sand, loamy sand	SP, SM	A-3, A-2, A-1	0	0	60-100	45-100	20-85	0-35	0-14	NP-1

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
297239												
Mardin	0-8	Stony loam	GM, ML, CL, GC	A-4	10-20	5-10	65-75	60-70	50-70	35-60	25-35	5-10
	8-17	Channery silt loam, loam, channery loam	GC, SC, CL, CL-ML	A-4	5-15	5-10	60-90	55-90	45-90	35-80	15-25	5-10
	17-21	Channery silt loam, loam, channery loam	GC, SC, CL, CL-ML	A-4	5-15	5-10	60-90	55-90	45-90	35-80	15-25	5-10
	21-30	Channery loam, channery silt loam, very channery loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0	10-25	40-80	35-75	30-70	20-65	20-30	5-10
	30-60	Very channery loam, channery silt loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0	10-25	40-80	35-75	30-70	20-65	20-30	5-10
	60-80	Channery loam, channery silt loam, very channery loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0-1	10-25	40-80	35-75	30-70	20-65	20-30	5-10
297240												
Mardin	0-8	Stony loam	GM, ML, CL, GC	A-4	10-20	5-10	65-75	60-70	50-70	35-60	25-35	5-10
	8-17	Channery silt loam, loam, channery loam	GC, SC, CL, CL-ML	A-4	5-15	5-10	60-90	55-90	45-90	35-80	15-25	5-10
	17-21	Channery silt loam, loam, channery loam	GC, SC, CL, CL-ML	A-4	5-15	5-10	60-90	55-90	45-90	35-80	15-25	5-10
	21-30	Channery loam, channery silt loam, very channery loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0	10-25	40-80	35-75	30-70	20-65	20-30	5-10
	30-60	Very channery loam, channery silt loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0	10-25	40-80	35-75	30-70	20-65	20-30	5-10
	60-80	Channery loam, channery silt loam, very channery loam	GC, SC, CL, CL-ML	A-4, A-2, A-1	0-1	10-25	40-80	35-75	30-70	20-65	20-30	5-10
297241												
Unadilla	0-13	Silt loam	ML, CL-ML	A-4	0	0	100	100	100	80-95	15-35	5-10
	13-49	Silt loam	CL, ML, CL-ML	A-4	0	0	100	100	100	80-95	15-25	3-10
	49-80	Silt loam	CL, ML, CL-ML	A-4	0	0	100	100	100	75-90	15-25	3-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
297242												
Shohola	0-3	Extremely flaggy loam	SM, CL, GM, ML	A-6, A-4	5-20	15-35	70-90	65-85	60-80	40-75	20-30	3-15
	3-24	Very flaggy loam, extremely flaggy loam, extremely flaggy fine sandy loam, extremely flaggy silt loam	SM, CL, ML, CL-ML, GM	A-6, A-4	1-5	0-15	65-95	65-90	60-85	40-80	15-25	3-12
	24-72	Very gravelly fine sandy loam, very gravelly loam, very gravelly sandy loam, very flaggy fine sandy loam	SC, SC-SM, CL-ML, GC	A-4, A-2	1-5	10-25	60-90	55-70	35-70	20-65	15-25	NP-10
Edgemere	0-2	Extremely stony mucky peat	GW, PT	A-8	0	0	0	100	---	---	20-40	NP
	2-5	Extremely stony loam, extremely stony silt loam	OL, SM, GM, ML	A-7, A-5	10-30	5-25	70-90	65-85	60-80	40-75	40-50	5-15
	5-24	Very stony sandy loam, extremely stony loam	SM, CL, GM, ML	A-4	5-20	5-20	65-95	65-90	60-85	40-80	25-35	5-10
	24-66	Very gravelly sandy loam, very gravelly loam	SC-SM, SC, CL-ML, GC	A-4, A-2	1-5	10-25	60-90	55-70	35-70	20-65	15-25	5-10
297243												
Shohola	0-3	Extremely flaggy loam	SM, CL, GM, ML	A-6, A-4	5-20	15-35	70-90	65-85	60-80	40-75	20-30	3-15
	3-24	Very flaggy loam, extremely flaggy loam, extremely flaggy fine sandy loam, extremely flaggy silt loam	SM, CL, ML, CL-ML, GM	A-6, A-4	1-5	0-15	65-95	65-90	60-85	40-80	15-25	3-12
	24-72	Very gravelly fine sandy loam, very gravelly loam, very gravelly sandy loam, very flaggy fine sandy loam	SC, SC-SM, CL-ML, GC	A-4, A-2	1-5	10-25	60-90	55-70	35-70	20-65	15-25	NP-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
297243												
Edgemere--------	0-2	Extremely stony mucky peat	GW, PT	A-8	0	0	0	100	---	---	20-40	NP
	2-5	Extremely stony loam, extremely stony silt loam	OL, SM, GM, ML	A-7, A-5	10-30	5-25	70-90	65-85	60-80	40-75	40-50	5-15
	5-24	Very stony sandy loam, extremely stony loam	SM, CL, GM, ML	A-4	5-20	5-20	65-95	65-90	60-85	40-80	25-35	5-10
	24-66	Very gravelly sandy loam, very gravelly loam	SC-SM, SC, CL-ML, GC	A-4, A-2	1-5	10-25	60-90	55-70	35-70	20-65	15-25	5-10
297244												
Lordstown-------	0-3	Very channery loam	SM, ML, GM	A-4	0-1	20-40	65-85	50-75	50-75	40-65	15-30	NP-4
	3-28	Gravelly fine sandy loam, channery loam	SM, ML, GM	A-4	0	5-10	65-85	50-75	50-75	40-65	15-30	NP-4
	28-30	Very gravelly loam, channery silt loam, gravelly sandy loam	SM, ML, GM	A-4, A-2, A-1	0	5-25	40-75	30-70	25-70	15-60	15-30	NP-4
	30-40	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
Swartswood------	0-4	Stony fine sandy loam	SM, ML, GM	A-4, A-2, A-1	5-15	5-20	60-90	50-85	30-80	15-65	15-25	NP-3
	4-32	Channery loam, flaggy sandy loam, channery fine sandy loam	SM, ML, GM	A-4, A-2, A-1	0-1	0-25	60-90	50-90	30-85	15-65	10-25	NP-3
	32-70	Very gravelly fine sandy loam, flaggy sandy loam, channery loam	ML, SM, GM, GW-GM	A-4, A-2, A-1	0-1	5-25	50-80	35-80	20-70	10-60	10-20	NP-3
297245												
Lordstown-------	0-3	Very channery loam	SM, ML, GM	A-4	0-1	20-40	65-85	50-75	50-75	40-65	15-30	NP-4
	3-28	Gravelly fine sandy loam, channery loam	SM, ML, GM	A-4	0	5-10	65-85	50-75	50-75	40-65	15-30	NP-4
	28-30	Very gravelly loam, channery silt loam, gravelly sandy loam	SM, ML, GM	A-4, A-2, A-1	0	5-25	40-75	30-70	25-70	15-60	15-30	NP-4
	30-40	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
Swartswood------	0-4	Stony fine sandy loam	SM, ML, GM	A-4, A-2, A-1	5-15	5-20	60-90	50-85	30-80	15-65	15-25	NP-3
	4-32	Channery loam, flaggy sandy loam, channery fine sandy loam	SM, ML, GM	A-4, A-2, A-1	0-1	0-25	60-90	50-90	30-85	15-65	10-25	NP-3
	32-70	Very gravelly fine sandy loam, flaggy sandy loam, channery loam	ML, SM, GM, GW-GM	A-4, A-2, A-1	0-1	5-25	50-80	35-80	20-70	10-60	10-20	NP-3

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
297246												
Lordstown	0-3	Very channery loam	SM, ML, GM	A-4	0-1	20-40	65-85	50-75	50-75	40-65	15-30	NP-4
	3-28	Gravelly fine sandy loam, channery loam	SM, ML, GM	A-4	0	5-10	65-85	50-75	50-75	40-65	15-30	NP-4
	28-30	Very gravelly loam, channery silt loam, gravelly sandy loam	SM, ML, GM	A-4, A-2, A-1	0	5-25	40-75	30-70	25-70	15-60	15-30	NP-4
	30-40	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
Swartswood	0-4	Stony fine sandy loam	SM, ML, GM	A-4, A-2, A-1	5-15	5-20	60-90	50-85	30-80	15-65	15-25	NP-3
	4-32	Channery loam, flaggy sandy loam, channery fine sandy loam	SM, ML, GM	A-4, A-2, A-1	0-1	0-25	60-90	50-90	30-85	15-65	10-25	NP-3
	32-70	Very gravelly fine sandy loam, flaggy sandy loam, channery loam	ML, SM, GM, GW-GM	A-4, A-2, A-1	0-1	5-25	50-80	35-80	20-70	10-60	10-20	NP-3
297247												
Chenango	0-10	Gravelly fine sandy loam	SM, ML	A-2-4, A-1	0-1	0-5	60-90	55-80	40-80	20-70	15-35	NP-5
	10-29	Gravelly fine sandy loam, very gravelly fine sandy loam	SM, GM	A-2-4, A-1	0-5	0-10	55-80	35-75	30-75	15-50	15-20	NP-5
	29-70	Extremely cobbly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly loamy coarse sand	GW-GM, GP-GM, GM	A-1	5-10	10-25	30-65	15-45	7-40	1-15	10-20	NP
297248												
Chenango	0-10	Gravelly fine sandy loam	SM, ML	A-2-4, A-1	0-1	0-5	60-90	55-80	40-80	20-70	15-35	NP-5
	10-29	Gravelly fine sandy loam, very gravelly fine sandy loam	SM, GM	A-2-4, A-1	0-5	0-10	55-80	35-75	30-75	15-50	15-20	NP-5
	29-70	Extremely cobbly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly loamy coarse sand	GW-GM, GP-GM, GM	A-1	5-10	10-25	30-65	15-45	7-40	1-15	10-20	NP

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
297249												
Chenango--------	0-10	Gravelly fine sandy loam	SM, ML	A-2-4, A-1	0-1	0-5	60-90	55-80	40-80	20-70	15-35	NP-5
	10-29	Gravelly fine sandy loam, very gravelly fine sandy loam	SM, GM	A-2-4, A-1	0-5	0-10	55-80	35-75	30-75	15-50	15-20	NP-5
	29-70	Extremely cobbly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly loamy coarse sand	GW-GM, GP-GM, GM	A-1	5-10	10-25	30-65	15-45	7-40	1-15	10-20	NP
297250												
Lordstown-------	0-3	Very channery loam	SM, ML, GM	A-4	0-1	20-40	65-85	50-75	50-75	40-65	15-30	NP-4
	3-28	Gravelly fine sandy loam, channery loam	SM, ML, GM	A-4	0	5-10	65-85	50-75	50-75	40-65	15-30	NP-4
	28-30	Very gravelly loam, channery silt loam, gravelly sandy loam	SM, ML, GM	A-4, A-2, A-1	0	5-25	40-75	30-70	25-70	15-60	15-30	NP-4
	30-40	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
297251												
Lordstown-------	0-3	Very channery loam	SM, ML, GM	A-4	0-1	20-40	65-85	50-75	50-75	40-65	15-30	NP-4
	3-28	Gravelly fine sandy loam, channery loam	SM, ML, GM	A-4	0	5-10	65-85	50-75	50-75	40-65	15-30	NP-4
	28-30	Very gravelly loam, channery silt loam, gravelly sandy loam	SM, ML, GM	A-4, A-2, A-1	0	5-25	40-75	30-70	25-70	15-60	15-30	NP-4
	30-40	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
297253												
Craigsville-----	0-5	Very gravelly loam	SM, SC-SM, SC, CL-ML, ML	A-4, A-2	2-15	0-25	65-90	60-85	40-75	25-60	20-35	NP-10
	5-27	Gravelly sandy loam, cobbly loam, very gravelly sandy loam	SM, SC-SM, SC, GC, GM	A-4, A-2, A-1	0	25-60	50-80	30-65	25-60	15-40	15-27	NP-10
	27-77	Very gravelly loamy sand, very gravelly sandy loam, extremely cobbly loamy sand	GM, GC-GM, GC	A-2, A-1	0	35-75	35-55	30-50	20-45	10-25	15-25	NP-8

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
297253												
Wyoming---------	0-3	Very cobbly sandy loam	SM, SW-SM, GM, GP-GM	A-3, A-2, A-1	0	10-40	40-90	30-80	10-60	8-35	20-35	NP-5
	3-33	Very cobbly fine sandy loam, gravelly sandy loam, very gravelly sandy loam	SM, SP-SM, GM, GP-GM	A-3, A-2, A-1	0	0-25	40-75	35-70	5-55	5-35	15-27	NP-5
	33-72	Extremely cobbly loamy coarse sand, very gravelly sand, gravelly sandy loam	SM, SW, GP-GM, GW	A-1	0-5	5-30	30-65	20-55	5-50	1-13	10-25	NP-5
309440												
Edgemere---------	0-2	Extremely stony mucky peat	PT	A-8	0	0	0	100	---	---	0-14	NP
	2-5	Extremely stony loam, extremely stony silt loam	OL, SM, GM, ML	A-7, A-5	10-30	5-25	70-90	65-85	60-80	40-75	40-50	5-15
	5-24	Very stony loam, very stony sandy loam	SM, CL, GM, ML	A-4	5-20	5-20	65-95	65-90	60-85	40-80	25-35	5-10
	24-66	Very gravelly sandy loam, very gravelly loam	SC-SM, SC, CL-ML, GC	A-4, A-2	1-5	10-25	60-90	55-70	35-70	20-65	15-25	5-10
Shohola---------	0-3	Very flaggy loam	SM, CL, GM, ML	A-6, A-4	5-20	15-35	70-90	65-85	60-80	40-75	20-30	3-15
	3-24	Very flaggy loam, extremely flaggy silt loam, extremely flaggy fine sandy loam	SM, CL, ML, CL-ML, GM	A-6, A-4	1-5	0-15	65-95	65-90	60-85	40-80	15-25	3-12
	24-72	Very flaggy fine sandy loam, very gravelly sandy loam, very gravelly loam	SC, SC-SM, CL-ML, GC	A-4, A-2	1-5	10-25	60-90	55-70	35-70	20-65	15-25	NP-10

Table 14.--Engineering Properties--Continued

Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 in	3-10 in	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
319863												
Oquaga	0-2	Very stony loam	SM, ML, GM	A-5, A-4, A-2	4-15	10-25	50-85	40-70	35-70	25-65	35-45	2-7
	2-26	Very stony loam, very channery loam	ML, SM, GC-GM, GM	A-4, A-2, A-1	0-20	10-25	35-70	25-60	20-60	15-55	20-30	2-7
	26-32	Extremely stony sandy loam, very channery loam	GC-GM, GM, ML, SM	A-4, A-2, A-1	0-15	10-45	35-70	25-60	20-60	15-55	20-30	2-7
	32-42	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
Arnot	0-3	Very channery loam	SM, GM, ML	A-5, A-4, A-2	2-15	15-30	60-85	55-80	45-80	30-70	35-45	1-9
	3-14	Very channery silt loam, extremely channery loam	GM	A-4, A-2, A-1	0	10-25	30-60	25-55	20-55	15-50	20-35	1-9
	14-24	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
319865												
Wellsboro	0-8	Stony loam	GM, ML, CL, GC	A-4	10-20	5-10	65-75	60-70	50-70	35-60	25-35	5-10
	8-17	Loam, channery silt loam, channery loam	SM, SC-SM, ML, CL-ML, GC-GM	A-4, A-2	0-3	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	17-21	Loam, channery silt loam, channery loam	SM, SC-SM, ML, CL-ML, GC-GM	A-4, A-2	0-3	0-15	70-100	60-100	55-95	30-70	15-30	NP-10
	21-60	Channery silt loam, loam, very gravelly fine sandy loam, very channery sandy loam	SM, SC-SM, ML, CL, GM	A-4, A-2	0-5	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
	60-80	Loam, channery silt loam, very gravelly sandy loam, very channery fine sandy loam	SM, SC-SM, ML, CL, GM	A-4, A-2	0-5	0-20	55-90	45-90	35-80	25-60	15-30	NP-10
741008												
Oquaga	0-2	Very stony loam	SM, ML, GM	A-5, A-4, A-2	1-5	10-20	50-85	40-75	35-70	25-65	35-45	2-7
	2-26	Very stony silt loam, very channery loam	ML, SM, GC-GM, GM	A-4, A-2, A-1	0-15	10-25	35-70	25-60	20-60	15-55	20-30	2-7
	26-32	Extremely stony sandy loam, very channery loam	GC-GM, GM, ML, SM	A-4, A-2, A-1	0-15	10-45	35-70	25-60	20-60	15-55	20-30	2-7
	32-42	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---

Table 15.--Physical Soil Properties

[Sand, silt, and clay values are shown either as a range or as a representative value. Absence of an entry indicates that data were not estimated. Soil properties are measured or inferred from direct observations in the field or laboratory]

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
290457									
Barbour	0-6	24-52	28-50	7-17	1.15-1.40	0.6-2.0	0.16-0.21	0.0-2.9	1.0-5.0
	6-18	15-85	0-80	0-17	1.15-1.45	2.0-5.9	0.10-0.19	0.0-2.9	0.0-2.0
	18-26	24-52	28-50	7-17	1.15-1.45	2.0-5.9	0.10-0.19	0.0-2.9	0.0-2.0
	26-72	70-100	0-29	0-15	1.25-1.55	5.9-20.0	0.02-0.07	0.0-2.9	0.0-0.6
290461									
Bath	0-9	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.10-0.20	0.0-2.9	3.0-6.0
	9-20	15-52	28-80	0-17	1.20-1.50	0.6-2.0	0.08-0.18	0.0-2.9	0.0-1.0
	20-26	15-85	0-80	0-17	1.30-1.60	0.6-2.0	0.06-0.16	0.0-2.9	0.0-1.0
	26-72	15-52	28-80	0-17	1.65-1.95	0.1-0.2	0.00-0.00	0.0-2.9	0.0-1.0
290465									
Cadosia	0-6	24-52	28-50	7-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	2.0-6.0
	6-23	15-85	0-80	0-27	1.20-1.50	0.6-2.0	0.10-0.15	0.0-2.9	0.0-1.0
	23-32	24-52	28-50	7-27	1.40-1.60	0.6-2.0	0.10-0.15	0.0-2.9	0.0-0.5
	32-58	15-52	28-80	0-27	1.40-1.60	0.6-2.0	0.10-0.15	0.0-2.9	0.0-0.5
	58-72	24-85	0-50	0-27	1.40-1.60	0.6-2.0	0.05-0.10	0.0-2.9	0.0-0.5
290466									
Cadosia	0-6	24-52	28-50	7-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	2.0-6.0
	6-23	15-85	0-80	0-27	1.20-1.50	0.6-2.0	0.10-0.15	0.0-2.9	0.0-1.0
	23-32	24-52	28-50	7-27	1.40-1.60	0.6-2.0	0.10-0.15	0.0-2.9	0.0-0.5
	32-58	15-52	28-80	0-27	1.40-1.60	0.6-2.0	0.10-0.15	0.0-2.9	0.0-0.5
	58-72	24-85	0-50	0-27	1.40-1.60	0.6-2.0	0.05-0.10	0.0-2.9	0.0-0.5
290468									
Chenango	0-10	15-50	50-80	0-27	1.20-1.50	0.6-5.9	0.08-0.16	0.0-2.9	2.0-6.0
	10-21	15-50	50-80	0-27	1.25-1.55	0.6-5.9	0.07-0.15	0.0-2.9	0.0-1.0
	21-25	15-85	0-80	0-27	1.25-1.55	0.6-5.9	0.07-0.15	0.0-2.9	0.0-1.0
	25-72	70-100	0-29	0-15	1.45-1.65	5.9-20.0	0.01-0.05	0.0-2.9	0.0-1.0
290483									
Fluvaquents	0-8	15-50	50-80	0-27	1.10-1.50	0.1-20.0	0.06-0.18	0.0-2.9	2.0-7.0
	8-72	15-100	0-80	0-40	1.20-1.60	0.1-20.0	0.03-0.16	0.0-2.9	0.0-1.0
Udifluvents	0-8	24-52	28-50	7-27	1.10-1.50	0.1-20.0	0.03-0.15	0.0-2.9	0.0-3.0
	8-72	24-100	0-50	0-27	1.20-1.70	0.1-20.0	0.03-0.16	0.0-2.9	0.0-0.5
290484									
Halcott	0-3	24-52	28-50	7-27	1.20-1.40	0.6-2.0	0.08-0.12	0.0-2.9	2.0-6.0
	3-11	15-50	50-80	0-27	1.35-1.65	0.6-2.0	0.08-0.12	0.0-2.9	0.0-1.0
	11-18	15-85	0-80	0-27	1.35-1.65	0.6-2.0	0.08-0.12	0.0-2.9	0.0-1.0
	18-28	---	---	---	---	0.0-0.2	---	---	---
Mongaup	0-5	24-52	28-50	7-17	1.10-1.40	0.6-2.0	0.08-0.16	0.0-2.9	3.0-7.0
	5-12	15-50	50-80	0-17	1.20-1.60	0.6-2.0	0.08-0.16	0.0-2.9	0.0-1.0
	12-20	15-85	0-80	0-17	1.20-1.60	0.6-2.0	0.08-0.16	0.0-2.9	0.0-1.0
	20-28	15-50	50-80	0-17	1.20-1.60	0.6-2.0	0.08-0.16	0.0-2.9	0.0-1.0
	28-38	---	---	---	---	0.2-0.6	---	---	---
Vly	0-6	15-50	50-80	0-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	3.0-6.0
	6-18	15-52	28-80	0-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	18-24	15-50	50-80	0-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	24-31	15-50	50-80	0-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	31-41	---	---	---	---	0.1-0.1	---	---	---

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
290485									
Halcott	0-3	24-52	28-50	7-27	1.20-1.40	0.6-2.0	0.08-0.12	0.0-2.9	2.0-6.0
	3-11	15-50	50-80	0-27	1.35-1.65	0.6-2.0	0.08-0.12	0.0-2.9	0.0-1.0
	11-18	15-85	0-80	0-27	1.35-1.65	0.6-2.0	0.08-0.12	0.0-2.9	0.0-1.0
	18-28	---	---	---	---	0.0-0.2	---	---	---
Mongaup	0-5	24-52	28-50	7-17	1.10-1.40	0.6-2.0	0.08-0.16	0.0-2.9	3.0-7.0
	5-12	15-50	50-80	0-17	1.20-1.60	0.6-2.0	0.08-0.16	0.0-2.9	0.0-1.0
	12-20	15-85	0-80	0-17	1.20-1.60	0.6-2.0	0.08-0.16	0.0-2.9	0.0-1.0
	20-28	15-50	50-80	0-17	1.20-1.60	0.6-2.0	0.08-0.16	0.0-2.9	0.0-1.0
	28-38	---	---	---	---	0.2-0.6	---	---	---
Vly	0-6	15-50	50-80	0-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	3.0-6.0
	6-18	15-52	28-80	0-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	18-24	15-50	50-80	0-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	24-31	15-50	50-80	0-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	31-41	---	---	---	---	0.1-0.1	---	---	---
290487									
Lackawanna	0-7	15-50	50-80	0-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	3.0-5.0
	7-18	15-50	50-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	18-28	15-50	50-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	28-48	15-50	50-80	0-17	1.60-1.90	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	48-72	15-85	0-80	0-17	1.60-1.90	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
290488									
Lackawanna	0-7	15-50	50-80	0-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	3.0-5.0
	7-18	15-50	50-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	18-28	15-50	50-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	28-48	15-50	50-80	0-17	1.60-1.90	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	48-72	15-85	0-80	0-17	1.60-1.90	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
290489									
Lackawanna	0-7	15-50	50-80	0-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	3.0-5.0
	7-18	15-50	50-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	18-28	15-50	50-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	28-48	15-50	50-80	0-17	1.60-1.90	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	48-72	15-85	0-80	0-17	1.60-1.90	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
290490									
Lackawanna	0-7	15-50	50-80	0-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	3.0-5.0
	7-18	15-50	50-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	18-28	15-50	50-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	28-48	15-50	50-80	0-17	1.60-1.90	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	48-72	15-85	0-80	0-17	1.60-1.90	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
290491									
Lackawanna	0-7	15-50	50-80	0-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	3.0-5.0
	7-18	15-50	50-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	18-28	15-50	50-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	28-48	15-50	50-80	0-17	1.60-1.90	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	48-72	15-85	0-80	0-17	1.60-1.90	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
Bath	0-9	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.10-0.20	0.0-2.9	3.0-6.0
	9-20	15-52	28-80	0-17	1.20-1.50	0.6-2.0	0.08-0.18	0.0-2.9	0.0-1.0
	20-26	15-85	0-80	0-17	1.30-1.60	0.6-2.0	0.06-0.16	0.0-2.9	0.0-1.0
	26-72	15-52	28-80	0-17	1.65-1.95	0.1-0.2	0.00-0.00	0.0-2.9	0.0-1.0

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
290492									
Lackawanna------	0-7	15-50	50-80	0-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	3.0-5.0
	7-18	15-50	50-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	18-28	15-50	50-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	28-48	15-50	50-80	0-17	1.60-1.90	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	48-72	15-85	0-80	0-17	1.60-1.90	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
Bath----------	0-9	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.10-0.20	0.0-2.9	3.0-6.0
	9-20	15-52	28-80	0-17	1.20-1.50	0.6-2.0	0.08-0.18	0.0-2.9	0.0-1.0
	20-26	15-85	0-80	0-17	1.30-1.60	0.6-2.0	0.06-0.16	0.0-2.9	0.0-1.0
	26-72	15-52	28-80	0-17	1.65-1.95	0.1-0.2	0.00-0.00	0.0-2.9	0.0-1.0
290493									
Lackawanna------	0-7	15-50	50-80	0-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	3.0-5.0
	7-18	15-50	50-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	18-28	15-50	50-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	28-48	15-50	50-80	0-17	1.60-1.90	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	48-72	15-85	0-80	0-17	1.60-1.90	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
Bath----------	0-9	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.10-0.20	0.0-2.9	3.0-6.0
	9-20	15-52	28-80	0-17	1.20-1.50	0.6-2.0	0.08-0.18	0.0-2.9	0.0-1.0
	20-26	15-85	0-80	0-17	1.30-1.60	0.6-2.0	0.06-0.16	0.0-2.9	0.0-1.0
	26-72	15-52	28-80	0-17	1.65-1.95	0.1-0.2	0.00-0.00	0.0-2.9	0.0-1.0
290506									
Lordstown-------	0-3	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-6.0
	3-6	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	6-19	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	19-27	24-52	28-50	7-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	27-32	24-52	28-50	7-17	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-0.5
	32-42	---	---	---	---	0.2-0.6	---	---	---
290507									
Lordstown-------	0-3	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-6.0
	3-6	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	6-19	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	19-27	24-52	28-50	7-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	27-32	24-52	28-50	7-17	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-0.5
	32-42	---	---	---	---	0.2-0.6	---	---	---
290509									
Lordstown-------	0-3	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-6.0
	3-6	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	6-19	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	19-27	24-52	28-50	7-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	27-32	24-52	28-50	7-17	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-0.5
	32-42	---	---	---	---	0.2-0.6	---	---	---
290510									
Maplecrest------	0-3	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.10-0.17	0.0-2.9	2.0-6.0
	3-6	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.19	0.0-2.9	1.0-5.0
	6-18	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.19	0.0-2.9	0.0-1.0
	18-36	44-85	0-49	0-17	1.20-1.50	0.6-2.0	0.10-0.19	0.0-2.9	0.0-1.0
	36-46	24-52	28-50	7-17	1.20-1.50	0.6-5.9	0.10-0.14	0.0-2.9	0.0-1.0
	46-72	44-85	0-49	0-17	1.40-1.60	0.6-5.9	0.02-0.10	0.0-2.9	0.0-1.0
290511									
Maplecrest------	0-3	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.10-0.17	0.0-2.9	2.0-6.0
	3-6	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.19	0.0-2.9	1.0-5.0
	6-18	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.19	0.0-2.9	0.0-1.0
	18-36	44-85	0-49	0-17	1.20-1.50	0.6-2.0	0.10-0.19	0.0-2.9	0.0-1.0
	36-46	24-52	28-50	7-17	1.20-1.50	0.6-5.9	0.10-0.14	0.0-2.9	0.0-1.0
	46-72	44-85	0-49	0-17	1.40-1.60	0.6-5.9	0.02-0.10	0.0-2.9	0.0-1.0

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
290512									
Maplecrest------	0-3	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.10-0.17	0.0-2.9	2.0-6.0
	3-6	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.19	0.0-2.9	1.0-5.0
	6-18	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.19	0.0-2.9	0.0-1.0
	18-36	44-85	0-49	0-17	1.20-1.50	0.6-2.0	0.10-0.19	0.0-2.9	0.0-1.0
	36-46	24-52	28-50	7-17	1.20-1.50	0.6-5.9	0.10-0.14	0.0-2.9	0.0-1.0
	46-72	44-85	0-49	0-17	1.40-1.60	0.6-5.9	0.02-0.10	0.0-2.9	0.0-1.0
290514									
Mardin----------	0-5	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	3.0-7.0
	5-14	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	14-23	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	23-26	24-52	28-50	7-17	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	26-52	24-52	28-50	7-17	1.70-2.00	0.0-0.2	0.00-0.00	0.0-2.9	0.0-1.0
	52-72	24-52	28-50	7-17	1.65-1.95	0.0-0.2	0.00-0.00	0.0-2.9	0.0-1.0
290515									
Mardin----------	0-5	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	3.0-7.0
	5-14	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	14-23	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	23-26	24-52	28-50	7-17	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	26-52	24-52	28-50	7-17	1.70-2.00	0.0-0.2	0.00-0.00	0.0-2.9	0.0-1.0
	52-72	24-52	28-50	7-17	1.65-1.95	0.0-0.2	0.00-0.00	0.0-2.9	0.0-1.0
290519									
Mongaup---------	0-5	24-52	28-50	7-17	1.10-1.40	0.6-2.0	0.08-0.16	0.0-2.9	3.0-7.0
	5-12	15-50	50-80	0-17	1.20-1.60	0.6-2.0	0.08-0.16	0.0-2.9	0.0-1.0
	12-20	15-85	0-80	0-17	1.20-1.60	0.6-2.0	0.08-0.16	0.0-2.9	0.0-1.0
	20-28	15-50	50-80	0-17	1.20-1.60	0.6-2.0	0.08-0.16	0.0-2.9	0.0-1.0
	28-38	---	---	---	---	0.2-0.6	---	---	---
290522									
Morris----------	0-8	15-50	50-80	0-17	1.20-1.40	0.6-2.0	0.12-0.16	0.0-2.9	3.0-8.0
	8-14	15-50	50-80	0-17	1.30-1.50	0.6-2.0	0.12-0.16	0.0-2.9	0.0-0.5
	14-26	15-50	50-80	0-17	1.60-1.70	0.0-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	26-72	15-50	40-80	0-40	1.60-1.70	0.0-0.2	0.00-0.00	0.0-2.9	0.0-0.5
290523									
Morris----------	0-8	15-50	50-80	0-17	1.20-1.40	0.6-2.0	0.12-0.16	0.0-2.9	3.0-8.0
	8-14	15-50	50-80	0-17	1.30-1.50	0.6-2.0	0.12-0.16	0.0-2.9	0.0-0.5
	14-26	15-50	50-80	0-17	1.60-1.70	0.0-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	26-72	15-50	40-80	0-40	1.60-1.70	0.0-0.2	0.00-0.00	0.0-2.9	0.0-0.5
290525									
Morris----------	0-8	15-50	50-80	0-17	1.20-1.40	0.6-2.0	0.12-0.16	0.0-2.9	3.0-8.0
	8-14	15-50	50-80	0-17	1.30-1.50	0.6-2.0	0.12-0.16	0.0-2.9	0.0-0.5
	14-26	15-50	50-80	0-17	1.60-1.70	0.0-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	26-72	15-50	40-80	0-40	1.60-1.70	0.0-0.2	0.00-0.00	0.0-2.9	0.0-0.5
Volusia---------	0-8	15-50	50-80	0-27	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-7.0
	8-15	15-50	50-80	18-27	1.30-1.60	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	15-22	15-50	50-80	18-27	1.30-1.60	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	22-52	15-50	50-80	18-27	1.70-2.00	0.0-0.2	0.00-0.00	0.0-2.9	0.0-1.0
	52-72	15-50	50-80	0-27	1.65-1.95	0.0-0.2	0.00-0.00	0.0-2.9	0.0-1.0
290526									
Norchip---------	0-2	15-80	50-80	0-27	1.10-1.40	0.6-2.0	0.14-0.20	0.0-2.9	3.0-10
	2-7	15-50	50-80	18-27	1.10-1.40	0.6-2.0	0.14-0.20	0.0-2.9	1.0-3.0
	7-11	15-50	50-80	18-27	1.10-1.40	0.6-2.0	0.14-0.20	0.0-2.9	0.5-2.0
	11-25	24-52	28-50	18-27	1.70-2.00	0.0-0.2	0.00-0.00	0.0-2.9	0.0-1.0
	25-52	24-52	28-50	18-27	1.70-2.00	0.0-0.2	0.00-0.00	0.0-2.9	0.0-1.0
	52-72	15-50	50-80	0-27	1.50-1.85	0.0-0.2	0.00-0.00	0.0-2.9	0.0-1.0

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
290535									
Oquaga	0-6	15-50	50-80	0-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	2.0-6.0
	6-24	15-50	50-80	0-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-1.0
	24-34	---	---	---	---	0.1-0.1	---	---	---
290536									
Oquaga	0-6	15-50	50-80	0-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	2.0-6.0
	6-24	15-50	50-80	0-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-1.0
	24-34	---	---	---	---	0.1-0.1	---	---	---
290539									
Oquaga	0-6	15-50	50-80	0-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	2.0-6.0
	6-24	15-50	50-80	0-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-1.0
	24-34	---	---	---	---	0.1-0.1	---	---	---
290540									
Oquaga	0-6	15-50	50-80	0-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	2.0-6.0
	6-24	15-50	50-80	0-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-1.0
	24-34	---	---	---	---	0.1-0.1	---	---	---
Lordstown	0-3	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-6.0
	3-6	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	6-19	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	19-27	24-52	28-50	7-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	27-32	24-52	28-50	7-17	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-0.5
	32-42	---	---	---	---	0.2-0.6	---	---	---
Arnot	0-2	24-52	28-50	7-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	2-8	15-50	50-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	2.0-4.0
	8-17	15-50	50-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-1.0
	17-27	---	---	---	---	0.0-0.2	---	---	---
290541									
Oquaga	0-6	15-50	50-80	0-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	2.0-6.0
	6-24	15-50	50-80	0-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-1.0
	24-34	---	---	---	---	0.1-0.1	---	---	---
Lordstown	0-3	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-6.0
	3-6	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	6-19	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	19-27	24-52	28-50	7-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	27-32	24-52	28-50	7-17	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-0.5
	32-42	---	---	---	---	0.2-0.6	---	---	---
Arnot	0-2	24-52	28-50	7-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	2-8	15-50	50-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	2.0-4.0
	8-17	15-50	50-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-1.0
	17-27	---	---	---	---	0.0-0.2	---	---	---
290542									
Oquaga	0-6	15-50	50-80	0-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	2.0-6.0
	6-24	15-50	50-80	0-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-1.0
	24-34	---	---	---	---	0.1-0.1	---	---	---
Lordstown	0-3	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-6.0
	3-6	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	6-19	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	19-27	24-52	28-50	7-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.5-1.0
	27-32	24-52	28-50	7-17	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-0.5
	32-42	---	---	---	---	0.2-0.6	---	---	---

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
290542									
Arnot	0-2	24-52	28-50	7-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	2-8	15-50	50-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	2.0-4.0
	8-17	15-50	50-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-1.0
	17-27	---	---	---	---	0.0-0.2	---	---	---
290546									
Raypol	0-5	15-50	50-80	0-17	1.00-1.25	0.6-2.0	0.16-0.28	0.0-2.9	2.0-8.0
	5-10	15-50	50-80	0-17	1.35-1.55	0.6-2.0	0.15-0.26	0.0-2.9	2.0-6.0
	10-13	44-85	0-49	0-17	1.35-1.55	0.6-2.0	0.15-0.26	0.0-2.9	1.0-4.0
	13-21	24-52	28-50	7-17	1.35-1.55	0.6-2.0	0.15-0.26	0.0-2.9	0.0-1.0
	21-27	44-91	0-49	0-17	1.40-1.65	5.9-20.0	0.01-0.10	0.0-2.9	0.0-1.0
	27-32	70-91	0-29	0-15	1.40-1.65	5.9-20.0	0.01-0.10	0.0-2.9	0.0-1.0
	32-40	70-91	0-29	0-15	1.40-1.65	5.9-20.0	0.01-0.10	0.0-2.9	0.0-1.0
	40-72	86-100	0-14	0-10	1.40-1.65	5.9-20.0	0.01-0.10	0.0-2.9	0.0-1.0
290547									
Red hook	0-8	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.09-0.12	0.0-2.9	3.0-12
	8-17	15-50	50-80	0-17	1.25-1.55	0.6-2.0	0.04-0.17	0.0-2.9	2.0-6.0
	17-25	15-50	50-80	0-17	1.25-1.55	0.6-2.0	0.04-0.17	0.0-2.9	0.0-1.0
	25-38	44-85	0-49	0-17	1.25-1.55	0.6-2.0	0.04-0.17	0.0-2.9	0.0-1.0
	38-72	44-85	0-49	0-17	1.45-1.65	0.6-2.0	0.04-0.11	0.0-2.9	0.0-1.0
290548									
Riverhead	0-7	24-52	28-50	7-17	1.10-1.40	2.0-5.9	0.14-0.20	0.0-2.9	2.0-4.0
	7-22	44-85	0-49	0-17	1.25-1.55	2.0-5.9	0.09-0.13	0.0-2.9	0.0-1.0
	22-28	70-91	0-29	0-15	1.25-1.55	2.0-5.9	0.04-0.13	0.0-2.9	0.0-1.0
	28-72	86-100	0-14	0-10	1.45-1.65	20.0-20.0	0.02-0.04	0.0-2.9	0.0-1.0
290549									
Riverhead	0-7	24-52	28-50	7-17	1.10-1.40	2.0-5.9	0.14-0.20	0.0-2.9	2.0-4.0
	7-22	44-85	0-49	0-17	1.25-1.55	2.0-5.9	0.09-0.13	0.0-2.9	0.0-1.0
	22-28	70-91	0-29	0-15	1.25-1.55	2.0-5.9	0.04-0.13	0.0-2.9	0.0-1.0
	28-72	86-100	0-14	0-10	1.45-1.65	20.0-20.0	0.02-0.04	0.0-2.9	0.0-1.0
290555									
Torull	0-3	60	30	10	0.10-0.80	0.6-5.9	0.20-0.60	0.0-2.9	30-90
	3-5	15-50	50-80	0-27	1.20-1.50	0.6-2.0	0.09-0.13	0.0-2.9	1.0-6.0
	5-8	15-50	50-80	0-27	1.20-1.50	0.1-0.6	0.08-0.16	0.0-2.9	0.0-4.0
	8-13	15-50	50-80	0-27	1.20-1.50	0.1-0.6	0.08-0.16	0.0-2.9	0.0-1.0
	13-18	44-85	0-49	0-27	1.20-1.50	0.1-0.6	0.08-0.16	0.0-2.9	0.0-1.0
	18-28	---	---	---	---	0.0-0.2	---	---	---
Gretor	0-7	15-50	50-80	0-27	1.00-1.30	0.6-2.0	0.12-0.17	0.0-2.9	3.0-9.0
	7-16	44-85	0-49	18-20	1.10-1.40	0.6-2.0	0.12-0.16	0.0-2.9	0.0-1.0
	16-26	15-52	15-80	18-35	1.30-1.65	0.1-0.6	0.08-0.14	0.0-2.9	0.0-1.0
	26-36	---	---	---	---	0.1-0.2	---	---	---
290556									
Tunkhannock	0-6	24-52	28-50	7-27	1.20-1.40	2.0-5.9	0.08-0.15	0.0-2.9	2.0-4.0
	6-8	24-52	28-50	7-27	1.40-1.60	2.0-5.9	0.08-0.12	0.0-2.9	0.0-0.5
	8-18	24-52	28-50	7-27	1.40-1.60	2.0-5.9	0.08-0.12	0.0-2.9	0.0-0.5
	18-25	44-85	0-49	0-20	1.40-1.60	2.0-5.9	0.08-0.12	0.0-2.9	0.0-0.5
	25-72	70-91	0-29	0-15	1.40-1.60	5.9-20.0	0.01-0.08	0.0-2.9	0.0-0.5
290562									
Tunkhannock	0-6	24-52	28-50	7-27	1.20-1.40	2.0-5.9	0.08-0.15	0.0-2.9	2.0-4.0
	6-8	24-52	28-50	7-27	1.40-1.60	2.0-5.9	0.08-0.12	0.0-2.9	0.0-0.5
	8-18	24-52	28-50	7-27	1.40-1.60	2.0-5.9	0.08-0.12	0.0-2.9	0.0-0.5
	18-25	44-85	0-49	0-20	1.40-1.60	2.0-5.9	0.08-0.12	0.0-2.9	0.0-0.5
	25-72	70-91	0-29	0-15	1.40-1.60	5.9-20.0	0.01-0.08	0.0-2.9	0.0-0.5

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
290562									
Chenango	0-10	15-50	50-80	0-27	1.20-1.50	0.6-5.9	0.08-0.16	0.0-2.9	2.0-6.0
	10-21	15-50	50-80	0-27	1.25-1.55	0.6-5.9	0.07-0.15	0.0-2.9	0.0-1.0
	21-25	15-85	0-80	0-27	1.25-1.55	0.6-5.9	0.07-0.15	0.0-2.9	0.0-1.0
	25-72	70-100	0-29	0-15	1.45-1.65	5.9-20.0	0.01-0.05	0.0-2.9	0.0-1.0
290563									
Udorthents	0-4	44-85	0-49	0-20	1.20-1.80	0.1-20.0	0.05-0.13	0.0-2.9	0.0-5.0
	4-70	15-85	0-73	0-40	1.30-1.90	0.1-5.9	0.04-0.13	0.0-2.9	0.0-1.0
290565									
Unadilla	0-6	0-50	50-80	0-17	1.20-1.50	0.6-2.0	0.18-0.21	0.0-2.9	2.0-7.0
	6-15	0-50	50-80	0-17	1.20-1.50	0.6-2.0	0.18-0.21	0.0-2.9	2.0-7.0
	15-34	0-50	50-80	0-17	1.20-1.50	0.6-2.0	0.17-0.20	0.0-2.9	0.0-1.0
	34-39	44-85	0-49	0-17	1.20-1.50	0.6-2.0	0.17-0.20	0.0-2.9	0.0-1.0
	39-50	0-50	50-80	0-17	1.20-1.50	0.6-2.0	0.17-0.20	0.0-2.9	0.0-1.0
	50-72	70-100	0-29	0-15	1.45-1.65	2.0-20.0	0.01-0.10	0.0-2.9	0.0-0.5
290567									
Valois	0-4	44-85	0-49	0-17	1.10-1.40	0.6-2.0	0.12-0.21	0.0-2.9	2.0-6.0
	4-5	44-85	0-49	0-17	1.20-1.50	0.6-2.0	0.07-0.14	0.0-2.9	0.0-1.0
	5-15	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.07-0.14	0.0-2.9	0.0-1.0
	15-31	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.07-0.14	0.0-2.9	0.0-1.0
	31-72	44-85	0-49	0-17	1.40-1.60	0.6-5.9	0.03-0.09	0.0-2.9	0.0-1.0
290568									
Valois	0-4	44-85	0-49	0-17	1.10-1.40	0.6-2.0	0.12-0.21	0.0-2.9	2.0-6.0
	4-5	44-85	0-49	0-17	1.20-1.50	0.6-2.0	0.07-0.14	0.0-2.9	0.0-1.0
	5-15	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.07-0.14	0.0-2.9	0.0-1.0
	15-31	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.07-0.14	0.0-2.9	0.0-1.0
	31-72	44-85	0-49	0-17	1.40-1.60	0.6-5.9	0.03-0.09	0.0-2.9	0.0-1.0
290569									
Valois	0-4	44-85	0-49	0-17	1.10-1.40	0.6-2.0	0.12-0.21	0.0-2.9	2.0-6.0
	4-5	44-85	0-49	0-17	1.20-1.50	0.6-2.0	0.07-0.14	0.0-2.9	0.0-1.0
	5-15	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.07-0.14	0.0-2.9	0.0-1.0
	15-31	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.07-0.14	0.0-2.9	0.0-1.0
	31-72	44-85	0-49	0-17	1.40-1.60	0.6-5.9	0.03-0.09	0.0-2.9	0.0-1.0
290570									
Valois	0-4	44-85	0-49	0-17	1.10-1.40	0.6-2.0	0.12-0.21	0.0-2.9	2.0-6.0
	4-5	44-85	0-49	0-17	1.20-1.50	0.6-2.0	0.07-0.14	0.0-2.9	0.0-1.0
	5-15	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.07-0.14	0.0-2.9	0.0-1.0
	15-31	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.07-0.14	0.0-2.9	0.0-1.0
	31-72	44-85	0-49	0-17	1.40-1.60	0.6-5.9	0.03-0.09	0.0-2.9	0.0-1.0
290576									
Volusia	0-8	15-50	50-80	0-27	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-7.0
	8-15	15-50	50-80	18-27	1.30-1.60	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	15-22	15-50	50-80	18-27	1.30-1.60	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	22-52	15-50	50-80	18-27	1.70-2.00	0.0-0.2	0.00-0.00	0.0-2.9	0.0-1.0
	52-72	15-50	50-80	18-27	1.65-1.95	0.0-0.2	0.00-0.00	0.0-2.9	0.0-1.0
290578									
Wellsboro	0-8	15-50	50-80	0-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	3.0-5.0
	8-18	15-50	50-80	0-17	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	18-25	15-50	50-80	0-17	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	25-38	15-50	50-80	0-17	1.70-1.95	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	38-52	24-52	28-50	7-17	1.70-1.95	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	52-62	24-52	28-50	7-17	1.70-1.95	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	62-72	24-52	28-50	7-17	1.70-1.95	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
290579									
Wellsboro-------	0-8	15-50	50-80	0-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	3.0-5.0
	8-18	15-50	50-80	0-17	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	18-25	15-50	50-80	0-17	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	25-38	15-50	50-80	0-17	1.70-1.95	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	38-52	24-52	28-50	7-17	1.70-1.95	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	52-62	24-52	28-50	7-17	1.70-1.95	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	62-72	24-52	28-50	7-17	1.70-1.95	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
290581									
Wellsboro-------	0-8	15-50	50-80	0-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	3.0-5.0
	8-18	15-50	50-80	0-17	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	18-25	15-50	50-80	0-17	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	25-38	15-50	50-80	0-17	1.70-1.95	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	38-52	24-52	28-50	7-17	1.70-1.95	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	52-62	24-52	28-50	7-17	1.70-1.95	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
	62-72	24-52	28-50	7-17	1.70-1.95	0.1-0.2	0.00-0.00	0.0-2.9	0.0-0.5
Mardin----------	0-5	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	3.0-7.0
	5-14	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	14-23	15-50	50-80	0-17	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	23-26	24-52	28-50	7-17	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	26-52	24-52	28-50	7-17	1.70-2.00	0.0-0.2	0.00-0.00	0.0-2.9	0.0-1.0
	52-72	24-52	28-50	7-17	1.65-1.95	0.0-0.2	0.00-0.00	0.0-2.9	0.0-1.0
290582									
Wenonah---------	0-10	15-50	50-80	0-17	1.15-1.35	0.6-2.0	0.15-0.21	0.0-2.9	2.0-6.0
	10-20	15-50	50-80	0-17	1.15-1.45	0.6-5.9	0.11-0.19	0.0-2.9	1.0-3.0
	20-32	44-85	0-49	0-17	1.15-1.45	0.6-5.9	0.11-0.19	0.0-2.9	1.0-3.0
	32-60	44-85	0-49	0-17	1.20-1.55	0.6-5.9	0.03-0.18	0.0-2.9	0.0-2.0
	60-72	44-85	0-49	0-17	1.20-1.55	0.6-5.9	0.03-0.18	0.0-2.9	0.0-2.0
290592									
Carlisle--------	0-8	60	30	10	0.13-0.23	0.2-5.9	0.35-0.45	---	70-99
	8-42	60	30	10	0.13-0.23	0.2-5.9	0.35-0.45	---	70-99
	42-65	60	30	10	0.13-0.23	0.2-5.9	0.35-0.45	---	70-99
	65-72	60	30	10	0.13-0.23	0.2-5.9	0.35-0.45	---	70-99
Palms-----------	0-6	60	30	10	0.30-0.40	0.2-5.9	0.35-0.45	---	75-99
	6-22	60	30	10	0.15-0.30	0.2-5.9	0.35-0.45	---	75-99
	22-36	60	30	10	0.15-0.30	0.2-5.9	0.35-0.45	---	75-99
	36-72	15-85	0-73	7-35	1.45-1.75	0.2-2.0	0.14-0.22	0.0-2.9	0.0-2.0
293892									
Alden, extremely stony	0-9	15-32	50-80	18-27	1.10-1.40	0.6-2.0	0.16-0.22	0.0-2.9	4.0-10
	9-36	15-82	0-80	18-35	1.20-1.50	0.2-0.6	0.14-0.20	0.0-2.9	0.0-3.0
	36-60	15-82	0-73	18-35	1.50-1.80	0.1-0.6	0.08-0.15	0.0-2.9	0.0-1.0
293895									
Arnot-----------	0-4	0-50	50-80	0-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	4-15	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	15-19	---	---	---	---	0.0-0.0	---	---	---
Lordstown-------	0-2	60	30	10	0.10-0.40	0.2-5.9	0.35-0.65	---	80-100
	2-8	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-6.0
	8-21	15-52	28-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.0-2.0
	21-37	15-85	0-80	0-17	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-2.0
	37-41	---	---	---	---	0.0-0.0	---	---	---

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
293896									
Arnot	0-3	0-50	50-80	0-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	3-14	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	14-19	---	---	---	---	0.0-0.0	---	---	---
Lordstown	0-2	60	30	10	0.10-0.40	0.2-5.9	0.35-0.65	---	80-100
	2-7	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-6.0
	7-21	15-52	28-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.0-2.0
	21-35	15-85	0-80	0-17	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-2.0
	35-43	---	---	---	---	0.0-0.0	---	---	---
293897									
Arnot	0-3	0-50	50-80	0-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	3-13	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	13-19	---	---	---	---	0.0-0.0	---	---	---
Lordstown	0-2	60	30	10	0.10-0.40	0.2-5.9	0.35-0.65	---	80-100
	2-7	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-6.0
	7-21	15-52	28-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.0-2.0
	21-34	15-85	0-80	0-17	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-2.0
	34-43	---	---	---	---	0.0-0.0	---	---	---
293921									
Erie, extremely stony	0-4	15-32	50-80	18-27	1.10-1.40	0.6-2.0	0.10-0.17	0.0-2.9	3.0-7.0
	4-18	15-82	0-80	18-27	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-2.0
	18-50	15-52	28-80	18-35	1.70-2.00	0.1-0.2	0.01-0.03	0.0-2.9	0.0-2.0
	50-70	15-52	28-80	18-35	1.65-1.95	0.1-0.2	0.01-0.03	0.0-2.9	0.0-1.0
293929									
Hoosic	0-6	44-85	0-49	0-15	1.10-1.40	2.0-20.0	0.05-0.12	0.0-2.9	2.0-6.0
	6-28	24-85	0-50	0-15	1.25-1.55	2.0-20.0	0.05-0.11	0.0-2.9	0.0-2.0
	28-60	70-100	0-29	0-15	1.45-1.65	20.0-20.0	0.01-0.05	0.0-2.9	0.0-0.5
293930									
Hoosic	0-5	44-85	0-49	0-15	1.10-1.40	2.0-20.0	0.05-0.12	0.0-2.9	2.0-6.0
	5-25	24-85	0-50	0-15	1.25-1.55	2.0-20.0	0.05-0.11	0.0-2.9	0.0-2.0
	25-60	70-100	0-29	0-15	1.45-1.65	20.0-20.0	0.01-0.05	0.0-2.9	0.0-0.5
293931									
Hoosic	0-5	44-85	0-49	0-15	1.10-1.40	2.0-20.0	0.05-0.12	0.0-2.9	2.0-6.0
	5-23	24-85	0-50	0-15	1.25-1.55	2.0-20.0	0.05-0.11	0.0-2.9	0.0-2.0
	23-60	70-100	0-29	0-15	1.45-1.65	20.0-20.0	0.01-0.05	0.0-2.9	0.0-1.0
293932									
Lordstown	0-2	60	30	10	0.10-0.40	0.2-5.9	0.35-0.65	---	80-100
	2-8	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-6.0
	8-21	15-52	28-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.0-2.0
	21-38	15-85	0-80	0-17	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-2.0
	38-42	---	---	---	---	0.0-0.0	---	---	---
293939									
Middlebury	0-11	15-50	50-80	0-17	1.15-1.40	0.6-2.0	0.14-0.21	0.0-2.9	3.0-7.0
	11-42	15-85	0-80	0-17	1.15-1.45	0.6-2.0	0.10-0.20	0.0-2.9	0.0-3.0
	42-60	86-100	0-14	0-10	1.25-1.55	2.0-20.0	0.01-0.10	0.0-2.9	0.0-1.0
293943									
Otisville	0-6	44-85	0-49	0-15	1.10-1.40	5.9-20.0	0.09-0.12	0.0-2.9	2.0-4.0
	6-28	70-100	0-29	0-15	1.25-1.55	5.9-20.0	0.02-0.05	0.0-2.9	0.0-1.0
	28-60	70-100	0-29	0-15	1.45-1.65	5.9-20.0	0.01-0.02	0.0-2.9	0.0-0.5

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
293944									
Otisville-------	0-6	44-85	0-49	0-15	1.10-1.40	5.9-20.0	0.09-0.12	0.0-2.9	2.0-4.0
	6-26	70-100	0-29	0-15	1.25-1.55	5.9-20.0	0.02-0.05	0.0-2.9	0.0-1.0
	26-60	70-100	0-29	0-15	1.45-1.65	5.9-20.0	0.01-0.02	0.0-2.9	0.0-0.5
293945									
Otisville-------	0-5	44-85	0-49	0-15	1.10-1.40	5.9-20.0	0.09-0.12	0.0-2.9	2.0-4.0
	5-23	70-100	0-29	0-15	1.25-1.55	5.9-20.0	0.02-0.05	0.0-2.9	0.0-1.0
	23-60	70-100	0-29	0-15	1.45-1.65	5.9-20.0	0.01-0.02	0.0-2.9	0.0-0.5
293946									
Otisville-------	0-4	44-85	0-49	0-15	1.10-1.40	5.9-20.0	0.09-0.12	0.0-2.9	2.0-4.0
	4-20	70-100	0-29	0-15	1.25-1.55	5.9-20.0	0.02-0.05	0.0-2.9	0.0-1.0
	20-60	70-100	0-29	0-15	1.45-1.65	5.9-20.0	0.01-0.02	0.0-2.9	0.0-0.5
Hoosic----------	0-4	44-85	0-49	0-15	1.10-1.40	2.0-20.0	0.05-0.12	0.0-2.9	2.0-6.0
	4-22	24-85	0-50	0-15	1.25-1.55	2.0-20.0	0.05-0.11	0.0-2.9	0.0-2.0
	22-60	70-100	0-29	0-15	1.45-1.65	20.0-20.0	0.01-0.05	0.0-2.9	0.0-0.5
293961									
Arnot-----------	0-4	0-50	50-80	0-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	4-15	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	15-19	---	---	---	---	0.0-0.0	---	---	---
293962									
Arnot-----------	0-4	0-50	50-80	0-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	4-14	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	14-19	---	---	---	---	0.0-0.0	---	---	---
293963									
Arnot-----------	0-4	0-50	50-80	0-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	4-12	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	12-19	---	---	---	---	0.0-0.0	---	---	---
293975									
Suncook---------	0-4	44-85	0-49	0-20	1.10-1.30	5.9-20.0	0.10-0.17	0.0-2.9	2.0-5.0
	4-37	70-100	0-29	0-15	1.20-1.50	5.9-20.0	0.03-0.10	0.0-2.9	0.0-2.0
	37-60	70-100	0-29	0-15	1.20-1.50	5.9-20.0	0.01-0.10	0.0-2.9	0.0-1.0
293979									
Swartswood, very stony-----	0-3	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.08-0.12	0.0-2.9	2.0-4.0
	3-31	32-85	0-50	0-17	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	31-60	32-85	0-50	0-17	1.40-1.80	0.1-0.6	0.00-0.00	0.0-2.9	0.0-1.0
Mardin----------	0-6	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.09-0.14	0.0-2.9	3.0-7.0
	6-17	15-52	28-80	0-17	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-2.0
	17-60	15-52	28-80	0-17	1.70-2.00	0.1-0.2	0.01-0.03	0.0-2.9	0.0-1.0
293980									
Swartswood, very stony-----	0-2	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.08-0.12	0.0-2.9	2.0-4.0
	2-28	32-85	0-50	0-17	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	28-60	32-85	0-50	0-17	1.40-1.80	0.1-0.6	0.00-0.00	0.0-2.9	0.0-1.0
Mardin----------	0-6	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.09-0.14	0.0-2.9	3.0-7.0
	6-15	15-52	28-80	0-17	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-2.0
	15-60	15-52	28-80	0-17	1.70-2.00	0.1-0.2	0.01-0.03	0.0-2.9	0.0-1.0

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
293981									
Swartswood, very stony	0-2	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.08-0.12	0.0-2.9	2.0-4.0
	2-26	32-85	0-50	0-17	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	26-60	32-85	0-50	0-17	1.40-1.80	0.1-0.6	0.00-0.00	0.0-2.9	0.0-1.0
Mardin	0-5	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.09-0.14	0.0-2.9	3.0-7.0
	5-14	15-52	28-80	0-17	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-2.0
	14-60	15-52	28-80	0-17	1.70-2.00	0.1-0.2	0.01-0.03	0.0-2.9	0.0-1.0
293983									
Udifluvents, frequently flooded	0-4	24-52	28-50	7-27	1.10-1.50	0.1-5.9	0.04-0.17	0.0-2.9	0.0-4.0
	4-70	0-100	0-73	0-34	1.20-1.70	0.1-20.0	0.03-0.16	0.0-2.9	0.0-1.0
Fluvaquents	0-5	0-50	50-80	0-27	1.10-1.50	0.2-20.0	0.06-0.18	0.0-2.9	0.0-5.0
	5-70	0-100	0-80	0-34	1.20-1.60	0.1-20.0	0.03-0.16	0.0-2.9	0.0-3.0
295043									
Alden	0-12	15-32	50-80	18-27	1.10-1.40	0.6-2.0	0.16-0.22	0.0-2.9	4.0-10
	12-33	15-82	0-80	18-35	1.20-1.50	0.2-0.6	0.14-0.20	0.0-2.9	0.0-3.0
	33-60	15-82	0-80	18-40	1.50-1.80	0.1-0.6	0.08-0.15	0.0-2.9	0.0-1.0
295044									
Arnot	0-1	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	1-3	24-52	28-50	7-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	3-17	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	17-21	---	---	---	---	0.0-0.0	---	---	---
Lordstown	0-3	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	3-6	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-6.0
	6-20	15-52	28-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.0-2.0
	20-28	15-85	0-80	0-17	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-1.0
	28-32	---	---	---	---	0.0-0.0	---	---	---
295045									
Arnot	0-1	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	1-3	24-52	28-50	7-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	3-17	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	17-21	---	---	---	---	0.0-0.0	---	---	---
Lordstown	0-3	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	3-6	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-6.0
	6-20	15-52	28-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.0-2.0
	20-28	15-85	0-80	0-17	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-1.0
	28-32	---	---	---	---	0.0-0.0	---	---	---
295046									
Arnot	0-1	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	1-3	24-52	28-50	7-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	3-17	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	17-21	---	---	---	---	0.0-0.0	---	---	---
Oquaga	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-6	0-50	50-80	0-27	1.10-1.40	0.6-2.0	0.05-0.13	0.0-2.9	2.0-6.0
	6-36	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	36-40	---	---	---	---	0.0-0.0	---	---	---

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
295047									
Arnot	0-1	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	1-3	24-52	28-50	7-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	3-17	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	17-21	---	---	---	---	0.0-0.0	---	---	---
Oquaga	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-6	0-50	50-80	0-27	1.10-1.40	0.6-2.0	0.05-0.13	0.0-2.9	2.0-6.0
	6-36	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	36-40	---	---	---	---	0.0-0.0	---	---	---
295048									
Arnot	0-1	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	1-3	24-52	28-50	7-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	3-17	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	17-21	---	---	---	---	0.0-0.0	---	---	---
295049									
Arnot	0-1	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	1-3	24-52	28-50	7-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	3-17	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	17-21	---	---	---	---	0.0-0.0	---	---	---
295050									
Arnot	0-1	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	1-3	24-52	28-50	7-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	3-17	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	17-21	---	---	---	---	0.0-0.0	---	---	---
295051									
Barbour	0-8	32-52	28-50	7-17	1.15-1.40	0.6-2.0	0.16-0.21	0.0-2.9	1.0-5.0
	8-30	15-85	0-80	0-17	1.15-1.45	2.0-5.9	0.10-0.19	0.0-2.9	0.0-3.0
	30-60	70-100	0-29	0-15	1.25-1.55	5.9-20.0	0.02-0.07	0.0-2.9	0.0-1.0
295052									
Bash	0-5	15-50	50-80	0-17	1.15-1.40	0.6-2.0	0.15-0.21	0.0-2.9	1.0-5.0
	5-22	15-85	0-80	0-17	1.15-1.55	0.6-2.0	0.10-0.19	0.0-2.9	0.0-3.0
	22-45	15-85	0-80	0-17	1.15-1.55	0.2-2.0	0.10-0.19	0.0-2.9	0.0-2.0
	45-60	15-85	0-80	0-17	1.15-1.55	0.2-2.0	0.04-0.16	0.0-2.9	0.0-1.0
295053									
Carlisle	0-60	60	30	10	0.13-0.23	0.2-5.9	0.35-0.45	---	70-99
295054									
Carlisle ponded	0-60	60	30	10	0.13-0.23	0.2-5.9	0.35-0.45	---	70-99
Palms ponded	0-12	60	30	10	0.30-0.40	0.2-5.9	0.35-0.45	---	75-99
	12-22	60	30	10	0.15-0.30	0.2-5.9	0.35-0.45	---	75-99
	22-60	0-85	0-80	0-27	1.45-1.75	0.2-2.0	0.14-0.22	0.0-2.9	0.0-3.0
Alden ponded	0-12	15-32	50-80	18-27	1.10-1.40	0.6-2.0	0.16-0.22	0.0-2.9	4.0-10
	12-33	15-82	0-80	18-35	1.20-1.50	0.2-0.6	0.14-0.20	0.0-2.9	0.0-3.0
	33-60	15-82	0-80	18-40	1.50-1.80	0.1-0.6	0.08-0.15	0.0-2.9	0.0-1.0
295055									
Chenango	0-4	24-52	28-50	7-27	1.20-1.50	0.6-5.9	0.08-0.16	0.0-2.9	2.0-6.0
	4-31	0-85	0-80	0-27	1.25-1.55	0.6-5.9	0.07-0.15	0.0-2.9	0.0-2.0
	31-60	70-100	0-29	0-15	1.45-1.65	5.9-20.0	0.01-0.05	0.0-2.9	0.0-0.5
295056									
Chenango	0-4	24-52	28-50	7-27	1.20-1.50	0.6-5.9	0.08-0.16	0.0-2.9	2.0-6.0
	4-31	0-85	0-80	0-27	1.25-1.55	0.6-5.9	0.07-0.15	0.0-2.9	0.0-2.0
	31-60	70-100	0-29	0-15	1.45-1.65	5.9-20.0	0.01-0.05	0.0-2.9	0.0-0.5

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
295057									
Chenango--------	0-4	24-52	28-50	7-27	1.20-1.50	0.6-5.9	0.08-0.16	0.0-2.9	2.0-6.0
	4-31	0-85	0-80	0-27	1.25-1.55	0.6-5.9	0.07-0.15	0.0-2.9	0.0-2.0
	31-60	70-100	0-29	0-15	1.45-1.65	5.9-20.0	0.01-0.05	0.0-2.9	0.0-0.5
295059									
Cheshire, stony-	0-5	32-52	28-50	7-17	1.00-1.25	0.6-5.9	0.10-0.18	0.0-2.9	2.0-5.0
	5-36	15-85	0-80	0-17	1.40-1.65	0.6-5.9	0.10-0.20	0.0-2.9	0.0-2.0
	36-60	32-85	0-50	0-17	1.45-1.70	0.6-5.9	0.08-0.18	0.0-2.9	0.0-1.0
295060									
Cheshire, stony-	0-5	32-52	28-50	7-17	1.00-1.25	0.6-5.9	0.10-0.18	0.0-2.9	2.0-5.0
	5-36	15-85	0-80	0-17	1.40-1.65	0.6-5.9	0.10-0.20	0.0-2.9	0.0-2.0
	36-60	32-85	0-50	0-17	1.45-1.70	0.6-5.9	0.08-0.18	0.0-2.9	0.0-1.0
295061									
Cheshire, stony-	0-5	32-52	28-50	7-17	1.00-1.25	0.6-5.9	0.10-0.18	0.0-2.9	2.0-5.0
	5-36	15-85	0-80	0-17	1.40-1.65	0.6-5.9	0.10-0.20	0.0-2.9	0.0-2.0
	36-60	32-85	0-50	0-17	1.45-1.70	0.6-5.9	0.08-0.18	0.0-2.9	0.0-1.0
295062									
Cheshire, stony-	0-5	32-52	28-50	7-17	1.00-1.25	0.6-5.9	0.10-0.18	0.0-2.9	2.0-5.0
	5-36	15-85	0-80	0-17	1.40-1.65	0.6-5.9	0.10-0.20	0.0-2.9	0.0-2.0
	36-60	32-85	0-50	0-17	1.45-1.70	0.6-5.9	0.08-0.18	0.0-2.9	0.0-1.0
295063									
Cheshire, stony-	0-5	32-52	28-50	7-17	1.00-1.25	0.6-5.9	0.10-0.18	0.0-2.9	2.0-5.0
	5-36	15-85	0-80	0-17	1.40-1.65	0.6-5.9	0.10-0.20	0.0-2.9	0.0-2.0
	36-60	32-85	0-50	0-17	1.45-1.70	0.6-5.9	0.08-0.18	0.0-2.9	0.0-1.0
295069									
Fluvaquents-----	0-5	0-50	50-80	0-27	1.10-1.50	0.2-20.0	0.06-0.18	0.0-2.9	0.0-5.0
	5-70	0-85	0-80	0-27	1.20-1.60	0.1-20.0	0.03-0.16	0.0-2.9	0.0-3.0
Udifluvents, frequently flooded--------	0-4	0-50	50-80	0-27	1.10-1.50	0.2-20.0	0.03-0.15	0.0-2.9	0.0-3.0
	4-70	24-91	0-50	0-27	1.20-1.70	0.1-20.0	0.03-0.16	0.0-2.9	0.0-1.0
295074									
Lackawanna------	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-5	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	1.0-3.0
	5-34	15-52	28-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-2.0
	34-60	15-85	0-80	0-17	1.60-2.00	0.1-0.2	0.06-0.12	0.0-2.9	0.0-1.0
295075									
Lackawanna------	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-5	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	1.0-3.0
	5-34	15-52	28-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-2.0
	34-60	15-85	0-80	0-17	1.60-2.00	0.1-0.2	0.06-0.12	0.0-2.9	0.0-1.0
295076									
Lackawanna------	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-5	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	1.0-3.0
	5-34	15-52	28-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-2.0
	34-60	15-85	0-80	0-17	1.60-2.00	0.1-0.2	0.06-0.12	0.0-2.9	0.0-1.0
295082									
Lordstown stony-	0-3	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	3-6	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-6.0
	6-20	15-52	28-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.0-2.0
	20-28	15-85	0-80	0-17	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-1.0
	28-32	---	---	---	---	0.0-0.0	---	---	---

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
295083									
Lordstown, very stony-----	0-3	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	3-6	15-50	50-80	0-17	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-6.0
	6-20	15-52	28-80	0-17	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.0-2.0
	20-28	15-85	0-80	0-17	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-1.0
	28-32	---	---	---	---	0.0-0.0	---	---	---
Arnot, very stony----------	0-1	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	1-3	24-52	28-50	7-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	3-17	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	17-21	---	---	---	---	0.0-0.0	---	---	---
295092									
Morris----------	0-6	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.12-0.16	0.0-2.9	3.0-7.0
	6-20	15-52	28-80	0-17	1.20-1.40	0.6-2.0	0.12-0.16	0.0-2.9	0.0-2.0
	20-60	10-45	30-80	0-35	1.60-2.00	0.1-0.2	0.06-0.08	0.0-2.9	0.0-1.0
295093									
Morris----------	0-6	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.12-0.16	0.0-2.9	3.0-7.0
	6-20	15-52	28-80	0-17	1.20-1.40	0.6-2.0	0.12-0.16	0.0-2.9	0.0-2.0
	20-60	10-45	30-80	0-35	1.60-2.00	0.1-0.2	0.06-0.08	0.0-2.9	0.0-1.0
295094									
Morris----------	0-6	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.12-0.16	0.0-2.9	3.0-7.0
	6-20	15-52	28-80	0-17	1.20-1.40	0.6-2.0	0.12-0.16	0.0-2.9	0.0-2.0
	20-60	10-45	30-80	0-35	1.60-2.00	0.1-0.2	0.06-0.08	0.0-2.9	0.0-1.0
295095									
Neversink-------	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-7	32-52	28-50	7-17	1.10-1.40	0.6-2.0	0.14-0.18	0.0-2.9	3.0-7.0
	7-23	32-85	0-50	0-17	1.10-1.40	0.1-0.2	0.02-0.08	0.0-2.9	0.0-3.0
	23-60	32-85	0-50	0-17	1.50-1.90	0.1-0.2	0.02-0.08	0.0-2.9	0.0-1.0
295101									
Oquaga----------	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-6	0-50	50-80	0-27	1.10-1.40	0.6-2.0	0.05-0.13	0.0-2.9	2.0-6.0
	6-36	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	36-40	---	---	---	---	0.0-0.0	---	---	---
295102									
Oquaga----------	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-6	0-50	50-80	0-27	1.10-1.40	0.6-2.0	0.05-0.13	0.0-2.9	2.0-6.0
	6-36	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	36-40	---	---	---	---	0.0-0.0	---	---	---
Arnot----------	0-1	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	1-3	24-52	28-50	7-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	3-17	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	17-21	---	---	---	---	0.0-0.0	---	---	---
295103									
Oquaga----------	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-6	0-50	50-80	0-27	1.10-1.40	0.6-2.0	0.05-0.13	0.0-2.9	2.0-6.0
	6-36	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	36-40	---	---	---	---	0.0-0.0	---	---	---
Arnot----------	0-1	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	1-3	24-52	28-50	7-27	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	3.0-6.0
	3-17	0-52	28-80	0-27	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	17-21	---	---	---	---	0.0-0.0	---	---	---

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
295105									
Otisville-------	0-9	70-91	0-29	0-15	1.10-1.40	5.9-20.0	0.05-0.10	0.0-2.9	2.0-4.0
	9-33	70-100	0-29	0-15	1.25-1.55	5.9-20.0	0.02-0.05	0.0-2.9	0.0-1.0
	33-60	70-100	0-29	0-15	1.45-1.65	5.9-20.0	0.01-0.02	0.0-2.9	0.0-0.5
295106									
Otisville-------	0-9	70-91	0-29	0-15	1.10-1.40	5.9-20.0	0.05-0.10	0.0-2.9	2.0-4.0
	9-33	70-100	0-29	0-15	1.25-1.55	5.9-20.0	0.02-0.05	0.0-2.9	0.0-1.0
	33-60	70-100	0-29	0-15	1.45-1.65	5.9-20.0	0.01-0.02	0.0-2.9	0.0-0.5
295107									
Otisville-------	0-9	70-91	0-29	0-15	1.10-1.40	5.9-20.0	0.05-0.10	0.0-2.9	2.0-4.0
	9-33	70-100	0-29	0-15	1.25-1.55	5.9-20.0	0.02-0.05	0.0-2.9	0.0-1.0
	33-60	70-100	0-29	0-15	1.45-1.65	5.9-20.0	0.01-0.02	0.0-2.9	0.0-0.5
295109									
Palms-----------	0-12	60	30	10	0.30-0.40	0.2-5.9	0.35-0.45	---	75-99
	12-22	60	30	10	0.15-0.30	0.2-5.9	0.35-0.45	---	75-99
	22-60	0-85	0-80	0-27	1.45-1.75	0.2-2.0	0.14-0.22	0.0-2.9	0.0-3.0
295110									
Philo-----------	0-10	15-50	50-80	0-17	1.20-1.40	0.6-2.0	0.14-0.20	0.0-2.9	2.0-4.0
	10-38	15-85	0-80	0-17	1.20-1.40	0.6-2.0	0.10-0.20	0.0-2.9	0.0-3.0
	38-45	15-85	0-80	0-17	1.20-1.40	0.6-5.9	0.06-0.18	0.0-2.9	0.0-1.0
	45-60	15-100	0-80	0-17	1.20-1.40	2.0-5.9	0.06-0.10	0.0-2.9	0.0-1.0
295113									
Pompton---------	0-10	44-85	0-49	0-17	1.15-1.45	0.6-5.9	0.09-0.14	0.0-2.9	2.0-4.0
	10-30	44-85	0-49	0-17	1.50-1.65	0.6-5.9	0.12-0.16	0.0-2.9	0.0-2.0
	30-60	70-100	0-29	0-15	1.45-1.70	5.9-20.0	0.05-0.10	0.0-2.9	0.0-1.0
295114									
Pompton---------	0-10	44-85	0-49	0-17	1.15-1.45	0.6-5.9	0.09-0.14	0.0-2.9	2.0-4.0
	10-30	44-85	0-49	0-17	1.50-1.65	0.6-5.9	0.12-0.16	0.0-2.9	0.0-2.0
	30-60	70-100	0-29	0-15	1.45-1.70	5.9-20.0	0.05-0.10	0.0-2.9	0.0-1.0
295115									
Pope, occasionally flooded--------	0-3	15-50	50-80	0-17	1.20-1.40	0.6-2.0	0.14-0.23	0.0-2.9	1.0-4.0
	3-32	15-85	0-80	0-17	1.30-1.60	0.6-5.9	0.10-0.18	0.0-2.9	0.0-3.0
	32-60	44-91	0-49	0-17	1.30-1.60	0.6-5.9	0.10-0.18	0.0-2.9	0.0-1.0
295116									
Pope, rarely flooded--------	0-6	44-85	0-49	0-17	1.20-1.40	0.6-2.0	0.14-0.23	0.0-2.9	1.0-4.0
	6-31	15-85	0-80	0-17	1.30-1.60	0.6-5.9	0.10-0.18	0.0-2.9	0.0-3.0
	31-60	44-91	0-49	0-17	1.30-1.60	0.6-5.9	0.10-0.18	0.0-2.9	0.0-1.0
295117									
Raynham, poorly drained--------	0-8	0-50	50-80	0-17	1.20-1.50	0.2-2.0	0.18-0.24	0.0-2.9	3.0-10
	8-30	0-85	0-100	0-17	1.20-1.50	0.2-2.0	0.18-0.22	0.0-2.9	0.0-3.0
	30-62	0-85	0-100	0-17	1.20-1.60	0.1-0.2	0.17-0.21	0.0-2.9	0.0-1.0
Raynham, somewhat poorly drained-	0-8	0-50	50-80	0-17	1.20-1.50	0.2-2.0	0.18-0.24	0.0-2.9	3.0-10
	8-30	0-85	0-100	0-17	1.20-1.50	0.2-2.0	0.18-0.22	0.0-2.9	0.0-3.0
	30-62	0-85	0-100	0-17	1.20-1.60	0.1-0.2	0.17-0.21	0.0-2.9	0.0-1.0

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
295118									
Red hook--------	0-7	44-85	0-49	0-17	1.10-1.40	0.6-2.0	0.14-0.19	0.0-2.9	3.0-12
	7-38	15-85	0-80	0-17	1.25-1.55	0.6-2.0	0.04-0.17	0.0-2.9	0.0-2.0
	38-60	15-85	0-80	0-17	1.45-1.65	0.2-2.0	0.04-0.11	0.0-2.9	0.0-1.0
295119									
Riverhead-------	0-6	44-85	0-49	0-17	1.10-1.40	2.0-5.9	0.14-0.20	0.0-2.9	2.0-4.0
	6-20	44-85	0-49	0-17	1.25-1.55	2.0-5.9	0.09-0.13	0.0-2.9	0.0-2.0
	20-30	44-100	0-49	0-17	1.25-1.55	2.0-5.9	0.04-0.13	0.0-2.9	0.0-1.0
	30-60	44-100	0-49	0-17	1.45-1.65	20.0-20.0	0.02-0.04	0.0-2.9	0.0-0.5
295120									
Riverhead-------	0-6	44-85	0-49	0-17	1.10-1.40	2.0-5.9	0.14-0.20	0.0-2.9	2.0-4.0
	6-20	44-85	0-49	0-17	1.25-1.55	2.0-5.9	0.09-0.13	0.0-2.9	0.0-2.0
	20-30	44-100	0-49	0-17	1.25-1.55	2.0-5.9	0.04-0.13	0.0-2.9	0.0-1.0
	30-60	44-100	0-49	0-17	1.45-1.65	20.0-20.0	0.02-0.04	0.0-2.9	0.0-0.5
295121									
Riverhead-------	0-6	44-85	0-49	0-17	1.10-1.40	2.0-5.9	0.14-0.20	0.0-2.9	2.0-4.0
	6-20	44-85	0-49	0-17	1.25-1.55	2.0-5.9	0.09-0.13	0.0-2.9	0.0-2.0
	20-30	44-100	0-49	0-17	1.25-1.55	2.0-5.9	0.04-0.13	0.0-2.9	0.0-1.0
	30-60	44-100	0-49	0-17	1.45-1.65	20.0-20.0	0.02-0.04	0.0-2.9	0.0-0.5
295122									
Scio------------	0-6	0-50	50-80	0-17	1.20-1.50	0.6-2.0	0.18-0.21	0.0-2.9	2.0-8.0
	6-29	0-85	0-80	0-17	1.20-1.50	0.6-2.0	0.17-0.20	0.0-2.9	0.0-2.0
	29-60	0-100	0-80	0-17	1.45-1.65	2.0-20.0	0.02-0.19	---	0.0-1.0
295123									
Scriba stony----	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-8	32-52	28-50	7-17	1.10-1.40	0.6-2.0	0.14-0.18	0.0-2.9	3.0-7.0
	8-20	15-85	0-80	0-17	1.70-2.00	0.1-0.2	0.00-0.04	0.0-2.9	0.0-2.0
	20-60	15-85	0-80	0-17	1.65-1.95	0.1-0.2	0.00-0.04	0.0-2.9	0.0-1.0
295124									
Scriba stony----	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-8	32-52	28-50	7-17	1.10-1.40	0.6-2.0	0.14-0.18	0.0-2.9	3.0-7.0
	8-20	15-85	0-80	0-17	1.70-2.00	0.1-0.2	0.00-0.04	0.0-2.9	0.0-2.0
	20-60	15-85	0-80	0-17	1.65-1.95	0.1-0.2	0.00-0.04	0.0-2.9	0.0-1.0
295125									
Scriba, extremely stony	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-8	32-52	28-50	7-17	1.10-1.40	0.6-2.0	0.14-0.18	0.0-2.9	3.0-7.0
	8-20	15-85	0-80	0-17	1.70-2.00	0.1-0.2	0.00-0.04	0.0-2.9	0.0-2.0
	20-60	15-85	0-80	0-17	1.65-1.95	0.1-0.2	0.00-0.04	0.0-2.9	0.0-1.0
Morris, extremely stony	0-6	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.12-0.16	0.0-2.9	3.0-7.0
	6-20	15-52	28-80	0-17	1.20-1.40	0.6-2.0	0.12-0.16	0.0-2.9	0.0-2.0
	20-60	10-45	30-80	0-35	1.30-1.70	0.1-0.2	0.06-0.08	0.0-2.9	0.0-1.0
295126									
Suncook---------	0-8	44-85	0-49	0-20	1.10-1.30	5.9-20.0	0.10-0.17	0.0-2.9	2.0-5.0
	8-44	70-100	0-80	0-15	1.20-1.50	5.9-20.0	0.03-0.10	0.0-2.9	0.0-2.0
	44-60	70-100	0-80	0-15	1.20-1.50	5.9-20.0	0.01-0.10	0.0-2.9	0.0-1.0
295129									
Swartswood------	0-1	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.08-0.12	---	2.0-6.0
	1-26	32-85	0-50	0-17	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	26-60	32-85	0-50	0-17	1.60-2.00	0.1-0.6	0.00-0.00	0.0-2.9	0.0-1.0

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
295130									
Swartswood------	0-1	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.08-0.12	---	2.0-6.0
	1-26	32-85	0-50	0-17	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	26-60	32-85	0-50	0-17	1.60-2.00	0.1-0.6	0.00-0.00	0.0-2.9	0.0-1.0
295131									
Swartswood------	0-1	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.08-0.12	---	2.0-6.0
	1-26	32-85	0-50	0-17	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	26-60	32-85	0-50	0-17	1.60-2.00	0.1-0.6	0.00-0.00	0.0-2.9	0.0-1.0
295132									
Swartswood, stony----------	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-3	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.08-0.12	---	2.0-6.0
	3-28	32-85	0-50	0-17	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	28-60	32-85	0-50	0-17	1.60-2.00	0.1-0.6	0.00-0.00	0.0-2.9	0.0-1.0
Lackawanna, stony----------	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-5	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	1.0-3.0
	5-34	15-52	28-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-2.0
	34-60	15-85	0-80	0-17	1.60-2.00	0.1-0.2	0.06-0.12	0.0-2.9	0.0-1.0
295133									
Swartswood, very stony-----	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-3	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.08-0.12	---	2.0-6.0
	3-28	32-85	0-50	0-17	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	28-60	32-85	0-50	0-17	1.60-2.00	0.1-0.6	0.00-0.00	0.0-2.9	0.0-1.0
Lackawanna, very stony-----	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-5	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	1.0-3.0
	5-34	15-52	28-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-2.0
	34-60	15-85	0-80	0-17	1.60-2.00	0.1-0.2	0.06-0.12	0.0-2.9	0.0-1.0
295134									
Swartswood, very stony-----	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-3	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.08-0.12	---	2.0-6.0
	3-28	32-85	0-50	0-17	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	28-60	32-85	0-50	0-17	1.60-2.00	0.1-0.6	0.00-0.00	0.0-2.9	0.0-1.0
Lackawanna, very stony-----	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-5	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	1.0-3.0
	5-34	15-52	28-80	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-2.0
	34-60	15-85	0-80	0-17	1.60-2.00	0.1-0.2	0.06-0.12	0.0-2.9	0.0-1.0
295136									
Tuller, somewhat poorly drained-	0-1	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	1-5	44-85	0-49	0-20	1.10-1.40	0.6-2.0	0.15-0.21	0.0-2.9	4.0-9.0
	5-12	0-85	0-80	0-27	1.20-1.50	0.1-0.6	0.06-0.10	---	0.0-2.0
	12-16	---	---	---	---	0.0-0.0	---	---	---
Tuller, poorly drained--------	0-1	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	1-5	44-85	0-49	0-20	1.10-1.40	0.6-2.0	0.15-0.21	0.0-2.9	4.0-9.0
	5-12	0-85	0-80	0-27	1.20-1.50	0.1-0.6	0.06-0.10	---	0.0-2.0
	12-16	---	---	---	---	0.0-0.0	---	---	---

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
295137									
Tunkhannock-----	0-6	24-52	28-50	7-27	1.20-1.40	2.0-5.9	0.08-0.15	0.0-2.9	2.0-4.0
	6-38	0-85	0-80	0-27	1.40-1.60	2.0-5.9	0.08-0.12	0.0-2.9	0.0-2.0
	38-60	44-100	0-49	0-20	1.40-1.60	2.0-20.0	0.01-0.08	0.0-2.9	0.0-0.5
295138									
Tunkhannock-----	0-6	24-52	28-50	7-27	1.20-1.40	2.0-5.9	0.08-0.15	0.0-2.9	2.0-4.0
	6-38	0-85	0-80	0-27	1.40-1.60	2.0-5.9	0.08-0.12	0.0-2.9	0.0-2.0
	38-60	44-100	0-49	0-20	1.40-1.60	2.0-20.0	0.01-0.08	0.0-2.9	0.0-0.5
295139									
Tunkhannock-----	0-6	24-52	28-50	7-27	1.20-1.40	2.0-5.9	0.08-0.15	0.0-2.9	2.0-4.0
	6-38	0-85	0-80	0-27	1.40-1.60	2.0-5.9	0.08-0.12	0.0-2.9	0.0-2.0
	38-60	44-100	0-49	0-20	1.40-1.60	2.0-20.0	0.01-0.08	0.0-2.9	0.0-0.5
295140									
Tunkhannock-----	0-6	24-52	28-50	7-27	1.20-1.40	2.0-5.9	0.08-0.15	0.0-2.9	2.0-4.0
	6-38	0-85	0-80	0-27	1.40-1.60	2.0-5.9	0.08-0.12	0.0-2.9	0.0-2.0
	38-60	44-100	0-49	0-20	1.40-1.60	2.0-20.0	0.01-0.08	0.0-2.9	0.0-0.5
295141									
Tunkhannock-----	0-6	24-52	28-50	7-27	1.20-1.40	2.0-5.9	0.08-0.15	0.0-2.9	2.0-4.0
	6-38	0-85	0-80	0-27	1.40-1.60	2.0-5.9	0.08-0.12	0.0-2.9	0.0-2.0
	38-60	44-100	0-49	0-20	1.40-1.60	2.0-20.0	0.01-0.08	0.0-2.9	0.0-0.5
Otisville-------	0-9	70-91	0-29	0-15	1.10-1.40	5.9-20.0	0.05-0.10	0.0-2.9	2.0-4.0
	9-33	70-100	0-29	0-15	1.25-1.55	5.9-20.0	0.02-0.05	0.0-2.9	0.0-1.0
	33-60	70-100	0-29	0-15	1.45-1.65	5.9-20.0	0.01-0.02	0.0-2.9	0.0-0.5
295142									
Tunkhannock-----	0-6	24-52	28-50	7-27	1.20-1.40	2.0-5.9	0.08-0.15	0.0-2.9	2.0-4.0
	6-38	0-85	0-80	0-27	1.40-1.60	2.0-5.9	0.08-0.12	0.0-2.9	0.0-2.0
	38-60	44-100	0-49	0-20	1.40-1.60	2.0-20.0	0.01-0.08	0.0-2.9	0.0-0.5
Otisville-------	0-9	70-91	0-29	0-15	1.10-1.40	5.9-20.0	0.05-0.10	0.0-2.9	2.0-4.0
	9-33	70-100	0-29	0-15	1.25-1.55	5.9-20.0	0.02-0.05	0.0-2.9	0.0-1.0
	33-60	70-100	0-29	0-15	1.45-1.65	5.9-20.0	0.01-0.02	0.0-2.9	0.0-0.5
295143									
Udorthents.									
295144									
Unadilla--------	0-5	0-50	50-80	0-17	1.20-1.50	0.6-2.0	0.18-0.21	0.0-2.9	2.0-7.0
	5-29	0-85	0-80	0-17	1.20-1.50	0.6-2.0	0.17-0.20	0.0-2.9	0.0-2.0
	29-42	0-85	0-80	0-17	1.45-1.65	2.0-20.0	0.01-0.10	0.0-2.9	0.0-1.0
	42-60	44-100	0-49	0-17	1.45-1.65	2.0-20.0	0.01-0.10	0.0-2.9	0.0-1.0
295145									
Unadilla--------	0-5	0-50	50-80	0-17	1.20-1.50	0.6-2.0	0.18-0.21	0.0-2.9	2.0-7.0
	5-29	0-85	0-80	0-17	1.20-1.50	0.6-2.0	0.17-0.20	0.0-2.9	0.0-2.0
	29-42	0-85	0-80	0-17	1.45-1.65	2.0-20.0	0.01-0.10	0.0-2.9	0.0-1.0
	42-60	44-100	0-49	0-17	1.45-1.65	2.0-20.0	0.01-0.10	0.0-2.9	0.0-1.0
295146									
Valois----------	0-1	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	1-4	44-85	0-49	0-17	1.10-1.40	0.6-2.0	0.08-0.16	0.0-2.9	1.0-3.0
	4-26	15-85	0-80	0-17	1.20-1.50	0.6-2.0	0.07-0.14	0.0-2.9	0.0-2.0
	26-37	15-85	0-80	0-17	1.20-1.50	0.6-5.9	0.07-0.14	0.0-2.9	0.0-1.0
	37-60	32-85	0-50	0-17	1.40-1.60	0.6-5.9	0.03-0.09	0.0-2.9	0.0-1.0

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
295147									
Valois----------	0-1	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	1-4	44-85	0-49	0-17	1.10-1.40	0.6-2.0	0.08-0.16	0.0-2.9	1.0-3.0
	4-26	15-85	0-80	0-17	1.20-1.50	0.6-2.0	0.07-0.14	0.0-2.9	0.0-2.0
	26-37	15-85	0-80	0-17	1.20-1.50	0.6-5.9	0.07-0.14	0.0-2.9	0.0-1.0
	37-60	32-85	0-50	0-17	1.40-1.60	0.6-5.9	0.03-0.09	0.0-2.9	0.0-1.0
295148									
Valois----------	0-1	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	1-4	44-85	0-49	0-17	1.10-1.40	0.6-2.0	0.08-0.16	0.0-2.9	1.0-3.0
	4-26	15-85	0-80	0-17	1.20-1.50	0.6-2.0	0.07-0.14	0.0-2.9	0.0-2.0
	26-37	15-85	0-80	0-17	1.20-1.50	0.6-5.9	0.07-0.14	0.0-2.9	0.0-1.0
	37-60	32-85	0-50	0-17	1.40-1.60	0.6-5.9	0.03-0.09	0.0-2.9	0.0-1.0
295149									
Valois----------	0-1	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	1-4	44-85	0-49	0-17	1.10-1.40	0.6-2.0	0.08-0.16	0.0-2.9	1.0-3.0
	4-26	15-85	0-80	0-17	1.20-1.50	0.6-2.0	0.07-0.14	0.0-2.9	0.0-2.0
	26-37	15-85	0-80	0-17	1.20-1.50	0.6-5.9	0.07-0.14	0.0-2.9	0.0-1.0
	37-60	32-85	0-50	0-17	1.40-1.60	0.6-5.9	0.03-0.09	0.0-2.9	0.0-1.0
295150									
Valois----------	0-1	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	1-4	44-85	0-49	0-17	1.10-1.40	0.6-2.0	0.08-0.16	0.0-2.9	1.0-3.0
	4-26	15-85	0-80	0-17	1.20-1.50	0.6-2.0	0.07-0.14	0.0-2.9	0.0-2.0
	26-37	15-85	0-80	0-17	1.20-1.50	0.6-5.9	0.07-0.14	0.0-2.9	0.0-1.0
	37-60	32-85	0-50	0-17	1.40-1.60	0.6-5.9	0.03-0.09	0.0-2.9	0.0-1.0
295153									
Wayland---------	0-7	0-32	50-80	18-27	1.05-1.40	0.2-2.0	0.17-0.22	0.0-2.9	3.0-6.0
	7-20	0-14	50-80	18-35	1.10-1.60	0.1-0.2	0.16-0.20	0.0-2.9	0.0-4.0
	20-32	0-82	0-80	18-27	1.25-1.55	0.1-0.2	0.08-0.19	0.0-2.9	0.0-2.0
	32-60	0-82	0-80	18-27	1.25-1.55	0.1-0.2	0.08-0.19	0.0-2.9	0.0-2.0
295154									
Wellsboro-------	0-7	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	1.0-3.0
	7-23	15-52	28-80	0-17	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-2.0
	23-60	15-85	0-80	0-17	1.60-2.00	0.1-0.2	0.00-0.00	0.0-2.9	0.0-1.0
295155									
Wellsboro-------	0-7	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	1.0-3.0
	7-23	15-52	28-80	0-17	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-2.0
	23-60	15-85	0-80	0-17	1.60-1.80	0.1-0.2	0.00-0.00	0.0-2.9	0.0-1.0
295156									
Wellsboro-------	0-7	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	1.0-3.0
	7-23	15-52	28-80	0-17	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-2.0
	23-60	15-85	0-80	0-17	1.60-2.00	0.1-0.2	0.00-0.00	0.0-2.9	0.0-1.0
295157									
Wellsboro, extremely stony	0-7	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	1.0-3.0
	7-23	15-52	28-80	0-17	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-2.0
	23-60	15-85	0-80	0-17	1.60-2.00	0.1-0.2	0.00-0.00	0.0-2.9	0.0-1.0
Wurtsboro, extremely stony	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-4	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	2.0-6.0
	4-28	32-85	0-50	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-2.0
	28-60	32-85	0-50	0-17	1.60-2.00	0.1-0.2	0.00-0.00	0.0-2.9	0.0-1.0

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
295162									
Wurtsboro, stony	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-4	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	2.0-6.0
	4-28	32-85	0-50	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-2.0
	28-60	32-85	0-50	0-17	1.60-2.00	0.1-0.2	0.00-0.00	0.0-2.9	0.0-1.0
295163									
Wurtsboro, stony	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-4	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	2.0-6.0
	4-28	32-85	0-50	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-2.0
	28-60	32-85	0-50	0-17	1.60-2.00	0.1-0.2	0.00-0.00	0.0-2.9	0.0-1.0
295164									
Wurtsboro, stony	0-2	60	30	10	0.10-0.40	0.2-5.9	0.20-0.50	---	50-100
	2-4	32-52	28-50	7-17	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	2.0-6.0
	4-28	32-85	0-50	0-17	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-2.0
	28-60	32-85	0-50	0-17	1.60-2.00	0.1-0.2	0.00-0.00	0.0-2.9	0.0-1.0
296588									
Arnot	0-4	45	42	8-18	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	2.0-8.0
	4-17	45	42	8-18	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.1-3.0
	17-24	---	---	---	---	---	---	---	---
296589									
Arnot	0-4	45	42	8-18	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	2.0-8.0
	4-17	45	42	8-18	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.1-3.0
	17-24	---	---	---	---	---	---	---	---
296590									
Arnot	0-4	45	42	8-18	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	2.0-8.0
	4-17	45	42	8-18	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.1-3.0
	17-24	---	---	---	---	---	---	---	---
296591									
Barbour	0-12	45	43	6-18	1.15-1.40	0.6-2.0	0.16-0.21	0.0-2.9	1.0-5.0
	12-28	45	43	6-18	1.15-1.45	2.0-6.0	0.10-0.19	0.0-2.9	0.0-0.5
	28-60	79	17	1-8	1.25-1.55	6.0-20.0	0.02-0.07	0.0-2.9	0.0-0.5
296592									
Basher	0-14	32	56	6-18	1.15-1.40	0.6-2.0	0.15-0.21	0.0-2.9	1.0-5.0
	14-40	71	17	6-18	1.15-1.45	0.6-2.0	0.10-0.19	0.0-2.9	0.0-0.5
	40-56	45	43	6-18	1.25-1.55	0.2-2.0	0.10-0.19	0.0-2.9	0.0-0.5
	56-69	47	44	1-15	1.25-1.55	0.6-6.0	0.02-0.07	0.0-2.9	0.0-0.5
296593									
Fluvents	0-6	67	23	5-15	1.00-1.40	0.6-2.0	0.10-0.15	0.0-2.9	0.5-2.0
	6-60	68	20	5-20	1.00-1.45	0.6-6.0	0.06-0.12	0.0-2.9	0.0-1.0
Fluvaquents	0-6	67	23	5-15	1.00-1.40	0.6-2.0	0.10-0.15	0.0-2.9	1.0-3.0
	6-60	68	20	5-20	1.00-1.45	0.6-6.0	0.06-0.12	0.0-2.9	0.0-1.5
296594									
Holly	0-12	20-45	40-60	15-27	1.20-1.40	0.6-2.0	0.20-0.24	0.0-2.9	2.0-5.0
	12-28	15-80	10-60	18-30	1.20-1.50	0.2-2.0	0.17-0.21	0.0-2.9	0.0-1.0
	28-42	15-80	10-60	10-27	1.20-1.45	0.6-6.0	0.10-0.20	0.0-2.9	0.0-1.0
	42-60	35-95	1-50	0-20	1.20-1.40	0.6-6.0	0.07-0.18	0.0-2.9	0.0-0.5
296595									
Linden	0-11	70	16	10-18	1.20-1.40	2.0-6.0	0.14-0.18	0.0-2.9	1.0-4.0
	11-48	70	16	10-18	1.20-1.40	2.0-6.0	0.14-0.18	0.0-2.9	0.0-0.5
	48-65	81	9	5-20	1.20-1.40	6.0-20.0	0.05-0.08	0.0-2.9	0.0-0.5

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
296596									
Lordstown-------	0-7	45	42	8-18	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	1.0-6.0
	7-26	45	42	8-18	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.1-2.0
	26-30	45	43	5-18	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-1.0
	30-42	---	---	---	---	---	---	---	---
296599									
Lordstown-------	0-7	45	42	8-18	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	1.0-6.0
	7-26	44	40	5-26	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.1-2.0
	26-30	45	43	5-18	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-1.0
	30-42	---	---	---	---	---	---	---	---
296600									
Lordstown-------	0-7	45	42	8-18	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	1.0-6.0
	7-26	44	40	5-26	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.1-2.0
	26-30	45	43	5-18	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-1.0
	30-42	---	---	---	---	---	---	---	---
296601									
Medihemists-----	0-60	---	---	---	0.10-0.25	0.2-6.0	0.30-0.45	---	50-99
Medifibrists----	0-60	---	---	---	0.10-0.25	0.2-6.0	0.30-0.45	---	50-99
296602									
Mardin----------	0-8	43	38	10-27	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	1.5-7.0
	8-17	45	41	10-18	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	17-21	45	41	10-18	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	21-60	45	41	10-18	1.50-1.90	0.0-0.2	0.01-0.03	0.0-2.9	0.0-1.0
	60-80	70	16	10-18	1.50-1.80	0.0-0.2	0.01-0.03	0.0-2.9	0.0-1.0
296603									
Mardin----------	0-8	43	38	10-27	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	1.5-7.0
	8-17	45	41	10-18	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	17-21	45	41	10-18	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	21-60	45	41	10-18	1.50-1.90	0.0-0.2	0.01-0.03	0.0-2.9	0.0-1.0
	60-80	70	16	10-18	1.50-1.80	0.0-0.2	0.01-0.03	0.0-2.9	0.0-1.0
296604									
Mardin----------	0-8	43	38	10-27	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	1.5-7.0
	8-17	45	41	10-18	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	17-21	45	41	10-18	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	21-60	45	41	10-18	1.50-1.90	0.0-0.2	0.01-0.03	0.0-2.9	0.0-1.0
	60-80	70	16	10-18	1.50-1.80	0.0-0.2	0.01-0.03	0.0-2.9	0.0-1.0
296605									
Mardin----------	0-8	43	38	10-27	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	1.5-7.0
	8-17	45	41	10-18	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	17-21	45	41	10-18	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	21-60	45	41	10-18	1.50-1.90	0.0-0.2	0.01-0.03	0.0-2.9	0.0-1.0
	60-80	70	16	10-18	1.50-1.80	0.0-0.2	0.01-0.03	0.0-2.9	0.0-1.0
296606									
Mardin----------	0-8	43	38	10-27	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	1.5-7.0
	8-17	45	41	10-18	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	17-21	45	41	10-18	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	21-60	45	41	10-18	1.50-1.90	0.0-0.2	0.01-0.03	0.0-2.9	0.0-1.0
	60-80	70	16	10-18	1.50-1.80	0.0-0.2	0.01-0.03	0.0-2.9	0.0-1.0
296608									
Morris----------	0-8	44	41	10-27	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	2.0-8.0
	8-17	44	41	10-27	1.10-1.70	0.6-2.0	0.10-0.14	0.0-2.9	0.2-4.0
	17-70	30	55	10-27	1.60-2.05	0.0-0.2	0.06-0.08	0.0-2.9	0.1-0.6
	70-80	30	55	10-27	1.50-1.80	0.0-0.2	0.06-0.08	0.0-2.9	0.1-0.6

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
296609									
Morris	0-8	44	41	10-27	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	2.0-8.0
	8-17	44	41	10-27	1.10-1.70	0.6-2.0	0.10-0.14	0.0-2.9	0.2-4.0
	17-70	30	55	10-27	1.60-2.05	0.0-0.2	0.06-0.08	0.0-2.9	0.1-0.6
	70-80	30	55	10-27	1.50-1.80	0.0-0.2	0.06-0.08	0.0-2.9	0.1-0.6
296610									
Morris	0-8	44	41	10-25	1.20-1.40	0.6-2.0	0.12-0.16	0.0-2.9	2.0-8.0
	8-17	44	41	10-25	1.10-1.70	0.6-2.0	0.12-0.16	0.0-2.9	0.2-4.0
	17-70	30	55	10-27	1.60-2.05	0.0-0.2	0.06-0.08	0.0-2.9	0.1-0.6
	70-80	30	55	10-27	1.50-1.80	0.0-0.2	0.06-0.08	0.0-2.9	0.1-0.6
296611									
Morris	0-8	42	38	15-25	1.20-1.40	0.6-2.0	0.12-0.16	0.0-2.9	2.0-8.0
	8-17	42	38	15-25	1.10-1.70	0.6-2.0	0.12-0.16	0.0-2.9	0.2-4.0
	17-70	39	37	15-32	1.60-2.05	0.0-0.2	0.06-0.08	0.0-2.9	0.1-0.6
	70-80	39	37	15-32	1.50-1.80	0.0-0.2	0.06-0.08	0.0-2.9	0.1-0.6
296613									
Norwich	0-8	27	54	10-27	1.10-1.40	0.6-2.0	0.12-0.18	0.0-2.9	3.0-10
	8-16	40	38	18-27	1.20-1.50	0.6-2.0	0.11-0.18	0.0-2.9	0.5-5.0
	16-48	27	54	10-27	1.55-2.05	0.0-0.2	0.02-0.04	0.0-2.9	0.2-1.0
	48-80	25	53	10-35	1.50-1.80	0.0-0.2	0.01-0.02	0.0-2.9	0.2-1.0
Chippewa	0-8	27	54	10-27	1.10-1.40	0.6-2.0	0.11-0.18	0.0-2.9	3.0-10
	8-16	19	54	18-35	1.20-1.50	0.6-2.0	0.10-0.17	0.0-2.9	0.5-5.0
	16-48	25	53	10-35	1.55-2.05	0.0-0.2	0.01-0.02	0.0-2.9	0.2-1.0
	48-80	25	53	10-35	1.50-1.80	0.0-0.2	0.01-0.02	0.0-2.9	0.2-1.0
296614									
Oquaga	0-7	43	40	7-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	1.0-6.0
	7-30	29	54	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.1-2.0
	30-42	---	---	---	---	---	---	---	---
296615									
Oquaga	0-7	43	40	7-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	1.0-6.0
	7-30	29	54	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.1-2.0
	30-42	---	---	---	---	---	---	---	---
296616									
Oquaga	0-7	43	40	7-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	1.0-6.0
	7-30	29	54	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.1-2.0
	30-42	---	---	---	---	---	---	---	---
296617									
Oquaga	0-7	43	40	7-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	1.0-6.0
	7-30	29	54	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.1-2.0
	30-42	---	---	---	---	---	---	---	---
296618									
Oquaga	0-7	43	40	7-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	1.0-6.0
	7-30	29	54	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.1-2.0
	30-42	---	---	---	---	---	---	---	---
296619									
Oquaga	0-7	43	40	7-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	1.0-6.0
	7-30	29	54	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.1-2.0
	30-42	---	---	---	---	---	---	---	---
Lordstown	0-7	31	56	8-18	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	1.0-6.0
	7-26	31	56	8-18	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	0.1-2.0
	26-30	32	56	5-18	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-1.0
	30-42	---	---	---	---	---	---	---	---

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
296622									
Rexford, poorly drained	0-8	30	55	10-20	1.20-1.40	0.6-2.0	0.14-0.18	0.0-2.9	2.0-8.0
	8-18	30	56	10-18	1.20-1.50	0.1-0.2	0.04-0.08	0.0-2.9	0.2-4.0
	18-40	45	41	10-18	1.50-1.90	0.1-0.2	0.04-0.08	0.0-2.9	0.1-0.6
	40-63	68	22	5-15	1.20-1.40	2.0-20.0	0.03-0.06	0.0-2.9	0.0-0.6
Rexford, somewhat poorly drained	0-8	30	55	10-20	1.20-1.40	0.6-2.0	0.14-0.18	0.0-2.9	2.0-8.0
	8-18	30	56	10-18	1.20-1.50	0.1-0.2	0.04-0.08	0.0-2.9	0.2-4.0
	18-40	45	41	10-18	1.50-1.90	0.1-0.2	0.04-0.08	0.0-2.9	0.1-0.6
	40-63	68	22	5-15	1.20-1.40	2.0-20.0	0.03-0.06	0.0-2.9	0.0-0.6
296623									
Arnot	0-4	45	42	8-18	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	2.0-8.0
	4-17	45	42	8-18	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.1-3.0
	17-24	---	---	---	---	---	---	---	---
296625									
Swartswood	0-28	65	19	12-20	1.20-1.40	0.6-2.0	0.08-0.12	0.0-2.9	1.0-3.0
	28-60	70	16	8-20	1.40-1.80	0.1-0.6	0.06-0.10	0.0-2.9	0.0-1.0
296628									
Swartswood	0-28	65	19	12-20	1.20-1.40	0.6-2.0	0.08-0.12	0.0-2.9	0.0-4.0
	28-60	70	16	8-20	1.40-1.80	0.1-0.6	0.06-0.10	0.0-2.9	0.0-1.0
296630									
Volusia	0-8	25	53	18-27	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-8.0
	8-15	25	53	18-27	1.30-1.60	0.6-2.0	0.09-0.16	0.0-2.9	0.0-0.4
	15-70	38	36	15-35	1.60-2.05	0.0-0.2	0.01-0.02	0.0-2.9	0.1-0.5
	70-80	42	37	15-27	1.50-1.80	0.0-0.2	0.01-0.02	0.0-2.9	0.1-0.6
296632									
Volusia	0-8	25	53	18-27	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-8.0
	8-15	25	53	18-27	1.30-1.60	0.6-2.0	0.09-0.16	0.0-2.9	0.0-0.4
	15-70	38	36	15-35	1.60-2.05	0.0-0.2	0.01-0.02	0.0-2.9	0.1-0.5
	70-80	42	37	15-27	1.50-1.80	0.0-0.2	0.01-0.02	0.0-2.9	0.1-0.6
296633									
Volusia	0-8	22	55	18-27	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	2.0-8.0
	8-15	22	55	18-27	1.30-1.60	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	15-70	20	54	15-35	1.60-2.05	0.0-0.2	0.01-0.02	0.0-2.9	0.1-0.5
	70-80	26	53	15-27	1.50-1.80	0.0-0.2	0.01-0.02	0.0-2.9	0.1-0.6
296634									
Wellsboro	0-8	43	38	10-27	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	1.5-7.0
	8-17	43	40	10-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.4
	17-21	43	40	10-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.4
	21-60	29	54	10-27	1.50-1.90	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.4
	60-80	29	54	10-27	1.30-1.60	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.4
296635									
Wellsboro	0-8	43	38	10-27	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	1.5-7.0
	8-17	43	40	10-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.4
	17-21	43	40	10-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.4
	21-60	29	54	10-27	1.50-1.90	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.4
	60-80	29	54	10-27	1.30-1.60	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.4

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
296636									
Wellsboro-------	0-8	43	38	10-27	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	1.5-7.0
	8-17	43	40	10-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.4
	17-21	43	40	10-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.4
	21-60	29	54	10-27	1.50-1.90	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.4
	60-80	29	54	10-27	1.30-1.60	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.4
296637									
Wellsboro-------	0-8	43	38	10-27	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	1.5-7.0
	8-17	43	40	10-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.4
	17-21	43	40	10-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.4
	21-60	29	54	10-27	1.50-1.90	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.4
	60-80	29	54	10-27	1.30-1.60	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.4
296638									
Wellsboro-------	0-8	43	38	10-27	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	1.5-7.0
	8-17	43	40	10-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.4
	17-21	43	40	10-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.4
	21-60	29	54	10-27	1.50-1.90	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.4
	60-80	29	54	10-27	1.30-1.60	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.4
296639									
Wellsboro-------	0-8	43	38	10-27	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	1.5-7.0
	8-17	42	37	15-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	17-21	42	37	15-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	21-60	29	54	10-27	1.50-1.90	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.4
	60-80	42	37	15-27	1.50-1.80	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.3
Mardin----------	0-8	43	38	10-27	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	1.5-7.0
	8-17	45	41	10-18	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	17-21	45	41	10-18	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	21-60	45	41	10-18	1.50-1.90	0.0-0.2	0.01-0.03	0.0-2.9	0.0-1.0
	60-80	70	16	10-18	1.50-1.80	0.0-0.2	0.01-0.03	0.0-2.9	0.0-1.0
296640									
Wyoming---------	0-7	67	20	8-18	1.10-1.40	6.0-20.0	0.06-0.14	0.0-2.9	2.0-4.0
	7-25	67	23	5-15	1.10-1.50	6.0-20.0	0.06-0.09	0.0-2.9	0.0-0.4
	25-60	85	9	1-11	1.30-1.60	6.0-20.0	0.02-0.04	0.0-2.9	0.0-0.4
296641									
Wyoming---------	0-7	67	20	8-18	1.10-1.40	6.0-20.0	0.06-0.14	0.0-2.9	2.0-4.0
	7-25	67	23	5-15	1.10-1.50	6.0-20.0	0.06-0.09	0.0-2.9	0.0-0.4
	25-60	85	9	1-11	1.30-1.60	6.0-20.0	0.02-0.04	0.0-2.9	0.0-0.4
296642									
Wyoming---------	0-7	67	20	8-18	1.10-1.40	6.0-20.0	0.06-0.14	0.0-2.9	2.0-4.0
	7-25	67	23	5-15	1.10-1.50	6.0-20.0	0.06-0.09	0.0-2.9	0.0-0.4
	25-60	85	9	1-11	1.30-1.60	6.0-20.0	0.02-0.04	0.0-2.9	0.0-0.4
296643									
Wyoming---------	0-7	67	20	8-18	1.10-1.40	6.0-20.0	0.06-0.14	0.0-2.9	2.0-4.0
	7-25	67	23	5-15	1.10-1.50	6.0-20.0	0.06-0.09	0.0-2.9	0.0-0.4
	25-60	85	9	1-11	1.30-1.60	6.0-20.0	0.02-0.04	0.0-2.9	0.0-0.4
297185									
Edgemere--------	0-2			0-0	0.50-0.90	0.6-2.0	0.23-0.45	0.0-2.9	4.0-20
	2-5	45	43	8-15	1.10-1.40	0.6-2.0	0.12-0.18	0.0-2.9	2.0-8.0
	5-24	45	43	8-15	1.20-1.50	0.6-2.0	0.11-0.18	0.0-2.9	0.0-1.0
	24-66	67	20	8-18	1.70-2.00	0.1-0.2	0.02-0.04	0.0-2.9	0.0-1.0
Shohola---------	0-3	45	43	8-15	1.10-1.40	0.6-2.0	0.08-0.18	0.0-2.9	2.0-4.0
	3-24	45	43	8-15	1.20-1.50	0.6-2.0	0.08-0.18	0.0-2.9	0.0-0.5
	24-72	68	21	8-15	1.70-2.00	0.0-0.2	0.02-0.04	0.0-2.9	0.0-0.5

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
297186									
Edgemere	0-2			0-0	0.50-0.90	0.6-2.0	0.23-0.45	0.0-2.9	4.0-20
	2-5	45	43	8-15	1.10-1.40	0.6-2.0	0.12-0.18	0.0-2.9	2.0-8.0
	5-24	45	43	8-15	1.20-1.50	0.6-2.0	0.11-0.18	0.0-2.9	0.0-1.0
	24-66	67	20	8-18	1.70-2.00	0.1-0.2	0.02-0.04	0.0-2.9	0.0-1.0
297188									
Manlius	0-5	32	56	6-18	1.10-1.40	0.6-2.0	0.08-0.12	0.0-2.9	2.0-8.0
	5-24	45	43	6-18	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-1.0
	24-30	45	43	6-18	1.70-1.95	0.6-2.0	0.03-0.09	0.0-2.9	0.0-0.4
	30-40			0-0	---	0.0-0.2	0.00-0.00	---	---
Arnot	0-3	45	42	8-18	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	2.0-8.0
	3-14	45	42	8-18	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.1-3.0
	14-24	---	---	---	---	---	---	---	---
297189									
Manlius	0-5	32	56	6-18	1.10-1.40	0.6-2.0	0.08-0.12	0.0-2.9	2.0-8.0
	5-24	45	43	6-18	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-1.0
	24-30	45	43	6-18	1.70-1.95	0.6-2.0	0.03-0.09	0.0-2.9	0.0-0.4
	30-40			0-0	---	0.0-0.2	0.00-0.00	---	---
Arnot	0-3	45	42	8-18	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	2.0-8.0
	3-14	45	42	8-18	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.1-3.0
	14-24	---	---	---	---	---	---	---	0.0-0.0
297190									
Braceville	0-11	68	22	5-15	1.15-1.40	2.0-6.0	0.15-0.21	0.0-2.9	2.0-8.0
	11-27	70	22	5-10	1.15-1.45	2.0-6.0	0.07-0.20	0.0-2.9	0.5-4.0
	27-48	70	22	5-10	1.40-1.70	0.1-0.6	0.06-0.10	0.0-2.9	0.0-0.5
	48-70	79	17	2-7	1.20-1.35	2.0-20.0	0.04-0.10	0.0-2.9	0.0-0.5
297191									
Wyalusing	0-6	69	16	15-30	1.15-1.40	6.0-20.0	0.14-0.20	0.0-2.9	2.0-6.0
	6-31	67	14	10-30	1.40-1.65	6.0-20.0	0.10-0.16	0.0-2.9	0.1-1.0
	31-70	80	17	2-9	---	6.0-20.0	0.02-0.10	0.0-2.9	0.1-0.5
297192									
Pope	0-6	68	22	5-15	1.20-1.40	2.0-6.0	0.10-0.16	0.0-2.9	1.0-4.0
	6-33	68	21	5-18	1.30-1.60	0.6-6.0	0.10-0.18	0.0-2.9	0.2-0.5
	33-70	68	20	5-20	1.30-1.60	0.6-6.0	0.10-0.18	0.0-2.9	0.1-0.8
297193									
Paupack	0-3	---	---	0-0	0.15-0.40	0.2-6.0	0.35-0.45	0.0-2.9	30-50
	3-26	---	---	0-0	0.80-0.90	0.2-6.0	0.35-0.45	0.0-2.9	30-50
	26-36	---	---	0-0	1.00-1.20	0.2-2.0	0.20-0.40	0.0-2.9	2.0-10
	36-70	66	23	5-18	1.40-1.60	0.2-2.0	0.11-0.20	0.0-2.9	0.0-2.0
297194									
Morris	0-8	42	38	15-25	1.20-1.40	0.6-2.0	0.12-0.16	0.0-2.9	2.0-8.0
	8-17	42	38	15-25	1.10-1.70	0.6-2.0	0.12-0.16	0.0-2.9	0.2-4.0
	17-70	68	14	15-32	1.60-2.05	0.0-0.2	0.06-0.08	0.0-2.9	0.1-0.6
	70-80	68	14	15-32	1.50-1.80	0.0-0.2	0.06-0.08	0.0-2.9	0.1-0.6
297196									
Freetown	0-6	---	---	0-0	0.10-0.30	0.6-6.0	0.35-0.45	0.0-2.9	50-99
	6-72	---	---	0-0	0.15-0.30	0.6-6.0	0.35-0.45	0.0-2.9	50-95
297199									
Oquaga	0-2	43	40	7-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	2.0-8.0
	2-26	29	54	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	26-32	64	19	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	32-42	---	---	---	---	---	---	---	---

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
297200									
Oquaga	0-2	43	40	7-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	2.0-8.0
	2-26	43	40	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	26-32	64	19	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	32-42	---	---	---	---	---	---	---	---
297201									
Oquaga	0-2	43	40	7-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	2.0-8.0
	2-26	43	40	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	26-32	64	19	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	32-42	---	---	---	---	---	---	---	---
297202									
Oquaga	0-2	43	40	7-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	2.0-8.0
	2-26	43	40	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	26-32	64	19	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	32-42	---	---	---	---	---	---	---	---
Arnot	0-3	45	42	8-18	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	2.0-8.0
	3-14	31	56	8-18	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.1-3.0
	14-24	---	---	---	---	---	---	---	---
297203									
Delaware	0-14	45-70	10-50	2-10	1.15-1.40	2.0-6.0	0.15-0.21	0.0-2.9	2.0-4.0
	14-48	45-90	0-40	2-7	1.15-1.45	2.0-6.0	0.07-0.20	0.0-2.9	0.0-0.5
	48-72	45-90	0-40	2-7	1.25-1.55	6.0-20.0	0.04-0.10	0.0-2.9	0.0-0.5
297204									
Delaware	0-14	64	30	2-10	1.15-1.40	2.0-6.0	0.15-0.21	0.0-2.9	2.0-4.0
	14-48	65	31	2-7	1.15-1.45	2.0-6.0	0.07-0.20	0.0-2.9	0.0-0.5
	48-72	65	31	2-7	1.25-1.55	6.0-20.0	0.04-0.10	0.0-2.9	0.0-0.5
297205									
Delaware	0-14	64	30	2-10	1.15-1.40	2.0-6.0	0.15-0.21	0.0-2.9	2.0-4.0
	14-48	65	31	2-7	1.15-1.45	2.0-6.0	0.07-0.20	0.0-2.9	0.0-0.5
	48-72	65	31	2-7	1.25-1.55	6.0-20.0	0.04-0.10	0.0-2.9	0.0-0.5
297207									
Wurtsboro	0-7	71	17	10-15	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	1.0-3.0
	7-22	71	17	10-15	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.1-2.0
	22-60	71	17	10-15	1.60-1.80	0.1-0.2	0.08-0.12	0.0-2.9	0.0-0.5
297208									
Wurtsboro	0-7	71	17	10-15	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	1.0-3.0
	7-22	71	17	10-15	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.1-2.0
	22-60	71	17	10-15	1.60-1.80	0.1-0.2	0.08-0.12	0.0-2.9	0.0-0.5
297209									
Philo	0-6	45	41	10-18	1.20-1.40	0.6-2.0	0.14-0.20	0.0-2.9	2.0-4.0
	6-36	70	16	10-18	1.20-1.40	0.6-2.0	0.10-0.20	0.0-2.9	0.0-0.5
	36-70	---	---	5-18	1.20-1.40	2.0-6.0	0.06-0.10	0.0-2.9	0.0-0.5
297210									
Barbour	0-10	71	17	6-18	1.15-1.40	0.6-2.0	0.16-0.21	0.0-2.9	1.0-5.0
	10-38	71	17	6-18	1.15-1.45	2.0-6.0	0.10-0.19	0.0-2.9	0.0-0.5
	38-72	94	1	1-8	1.25-1.55	6.0-20.0	0.02-0.07	0.0-2.9	0.0-0.2
297211									
Wellsboro	0-8	45	41	10-18	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	3.0-7.0
	8-17	42	37	15-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	17-21	42	37	15-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	21-60	65	16	15-27	1.50-1.90	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.5
	60-80	65	16	15-27	1.70-1.95	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.5

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
297212									
Wellsboro-------	0-8	45	41	10-18	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	3.0-7.0
	8-17	42	37	15-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	17-21	42	37	15-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	21-60	65	16	15-27	1.50-1.90	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.5
	60-80	65	16	15-27	1.70-1.95	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.5
297213									
Wellsboro-------	0-8	45	41	10-18	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	3.0-7.0
	8-17	42	37	15-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	17-21	42	37	15-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	21-60	65	16	15-27	1.50-1.90	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.5
	60-80	65	16	15-27	1.70-1.95	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.5
297215									
Wellsboro-------	0-8	43	38	10-27	1.20-1.40	0.6-2.0	0.10-0.14	0.0-2.9	3.0-5.0
	8-17	42	37	15-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	17-21	42	37	15-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	21-60	64	17	15-27	1.50-1.90	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.5
	60-80	65	16	15-27	1.70-1.95	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.5
297216									
Wurtsboro-------	0-4	70	16	10-18	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	2.0-4.0
	4-22	70	16	10-18	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-2.0
	22-70	70	16	10-18	1.60-1.80	0.1-0.2	0.08-0.12	0.0-2.9	0.0-0.5
297217									
Wurtsboro-------	0-4	68	21	5-18	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	2.0-4.0
	4-22	68	21	5-18	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.1-2.0
	22-70	68	21	5-18	1.60-1.80	0.1-0.2	0.08-0.12	0.0-2.9	0.0-0.5
297218									
Wurtsboro-------	0-4	68	21	5-18	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	2.0-4.0
	4-22	68	21	5-18	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.1-2.0
	22-70	68	21	5-18	1.60-1.80	0.1-0.2	0.08-0.12	0.0-2.9	0.0-0.5
297221									
Lackawanna------	0-7	43	38	10-27	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	3.0-6.0
	7-29	68	21	5-18	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	29-75	66	23	5-18	1.50-1.90	0.1-0.2	0.06-0.12	0.0-2.9	0.0-0.5
297223									
Lackawanna------	0-7	43	38	10-27	1.20-1.40	0.6-2.0	0.10-0.16	0.0-2.9	3.0-6.0
	7-29	68	21	5-18	1.40-1.60	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	29-75	66	23	5-18	1.50-1.90	0.1-0.2	0.06-0.12	0.0-2.9	0.0-0.5
297224									
Swartswood------	0-4	68	16	12-20	1.20-1.40	0.6-2.0	0.08-0.12	0.0-2.9	5.0-10
	4-32	69	16	10-20	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-1.0
	32-70	70	16	8-20	1.40-1.80	0.1-0.6	0.06-0.10	0.0-2.9	0.0-0.5
297225									
Swartswood------	0-4	68	16	12-20	1.20-1.40	0.6-2.0	0.08-0.12	0.0-2.9	5.0-10
	4-32	69	16	10-20	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-1.0
	32-70	70	16	8-20	1.40-1.80	0.1-0.6	0.06-0.10	0.0-2.9	0.0-0.5
297226									
Swartswood------	0-4	68	16	12-20	1.20-1.40	0.6-2.0	0.08-0.12	0.0-2.9	5.0-10
	4-32	69	16	10-20	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-1.0
	32-70	70	16	8-20	1.40-1.80	0.1-0.6	0.06-0.10	0.0-2.9	0.0-0.5

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
297227									
Arnot	0-3	45	42	8-18	1.10-1.40	0.6-2.0	0.08-0.12	0.0-2.9	2.0-8.0
	3-10	45	42	8-18	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.1-3.0
	10-14	45	42	8-18	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	14-24	---	---	---	---	---	0.00-0.00	---	---
297228									
Arnot	0-3	45	42	8-18	1.10-1.40	0.6-2.0	0.08-0.12	0.0-2.9	2.0-8.0
	3-10	45	42	8-18	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.1-3.0
	10-14	45	42	8-18	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-2.0
	14-24	---	---	---	---	---	0.00-0.00	---	---
297229									
Wyoming	0-3	67	20	8-18	1.10-1.40	6.0-20.0	0.06-0.14	0.0-2.9	2.0-4.0
	3-33	68	22	5-15	1.10-1.50	6.0-20.0	0.06-0.09	0.0-2.9	0.0-0.5
	33-72	83	11	1-11	1.30-1.60	6.0-20.0	0.02-0.04	0.0-2.9	0.0-0.5
297230									
Wyoming	0-3	67	20	8-18	1.10-1.40	6.0-20.0	0.06-0.14	0.0-2.9	2.0-4.0
	3-33	68	22	5-15	1.10-1.50	6.0-20.0	0.06-0.09	0.0-2.9	0.0-0.5
	33-72	83	11	1-11	1.30-1.60	6.0-20.0	0.02-0.04	0.0-2.9	0.0-0.5
297231									
Wyoming	0-3	67	20	8-18	1.10-1.40	6.0-20.0	0.06-0.14	0.0-2.9	2.0-4.0
	3-33	68	22	5-15	1.10-1.50	6.0-20.0	0.06-0.09	0.0-2.9	0.0-0.5
	33-72	83	11	1-11	1.30-1.60	6.0-20.0	0.02-0.04	0.0-2.9	0.0-0.5
297236									
Suncook	0-10	81	17	1-3	1.10-1.30	6.0-20.0	0.07-0.12	0.0-2.9	2.0-5.0
	10-70	97	2	0-3	1.20-1.50	6.0-20.0	0.01-0.10	0.0-2.9	0.1-0.2
297239									
Mardin	0-8	45	41	10-18	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	3.0-7.0
	8-17	45	41	10-18	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	17-21	45	41	10-18	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	21-30	45	41	10-18	1.50-1.90	0.0-0.2	0.01-0.03	0.0-2.9	0.1-0.5
	30-60	45	41	10-18	1.50-1.90	0.0-0.2	0.01-0.03	0.0-2.9	0.1-0.5
	60-80	45	41	10-18	1.65-1.95	0.0-0.2	0.01-0.03	0.0-2.9	0.0-1.0
297240									
Mardin	0-8	45	41	10-18	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	3.0-7.0
	8-17	45	41	10-18	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	17-21	45	41	10-18	1.20-1.50	0.6-2.0	0.09-0.16	0.0-2.9	0.0-1.0
	21-30	45	41	10-18	1.50-1.90	0.0-0.2	0.01-0.03	0.0-2.9	0.1-0.5
	30-60	45	41	10-18	1.50-1.90	0.0-0.2	0.01-0.03	0.0-2.9	0.1-0.5
	60-80	45	41	10-18	1.65-1.95	0.0-0.2	0.01-0.03	0.0-2.9	0.0-1.0
297241									
Unadilla	0-13	21	69	5-15	1.20-1.50	0.6-2.0	0.18-0.21	0.0-2.9	2.0-8.0
	13-49	21	70	3-15	1.20-1.50	0.6-2.0	0.17-0.20	0.0-2.9	0.0-1.0
	49-80	29	68	1-5	1.20-1.50	0.6-2.0	0.15-0.18	0.0-2.9	0.0-1.0
297242									
Shohola	0-3	45	43	8-15	1.10-1.40	0.6-2.0	0.08-0.18	0.0-2.9	2.0-4.0
	3-24	45	43	8-15	1.20-1.50	0.6-2.0	0.08-0.18	0.0-2.9	0.0-0.5
	24-72	68	21	8-15	1.70-2.00	0.0-0.2	0.02-0.04	0.0-2.9	0.0-0.5
Edgemere	0-2			0-0	0.50-0.90	0.6-2.0	0.23-0.45	0.0-2.9	4.0-20
	2-5	45	43	8-15	1.10-1.40	0.6-2.0	0.12-0.18	0.0-2.9	2.0-8.0
	5-24	66	23	8-15	1.20-1.50	0.6-2.0	0.11-0.18	0.0-2.9	0.0-1.0
	24-66	67	20	8-18	1.70-2.00	0.1-0.2	0.02-0.04	0.0-2.9	0.0-1.0

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
297243									
Shohola	0-3	45	43	8-15	1.10-1.40	0.6-2.0	0.08-0.18	0.0-2.9	2.0-4.0
	3-24	45	43	8-15	1.20-1.50	0.6-2.0	0.08-0.18	0.0-2.9	0.0-0.5
	24-72	68	21	8-15	1.70-2.00	0.0-0.2	0.02-0.04	0.0-2.9	0.0-0.5
Edgemere	0-2			0-0	0.50-0.90	0.6-2.0	0.23-0.45	0.0-2.9	4.0-20
	2-5	45	43	8-15	1.10-1.40	0.6-2.0	0.12-0.18	0.0-2.9	2.0-8.0
	5-24	66	23	8-15	1.20-1.50	0.6-2.0	0.11-0.18	0.0-2.9	0.0-1.0
	24-66	67	20	8-18	1.70-2.00	0.1-0.2	0.02-0.04	0.0-2.9	0.0-1.0
297244									
Lordstown	0-3	45	42	8-18	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	3.0-8.0
	3-28	68	16	5-26	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.1-2.0
	28-30	66	23	5-18	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-1.0
	30-40	---	---	---	---	---	---	---	---
Swartswood	0-4	68	16	12-20	1.20-1.40	0.6-2.0	0.08-0.12	0.0-2.9	5.0-10
	4-32	69	16	10-20	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-1.0
	32-70	70	16	8-20	1.40-1.80	0.1-0.6	0.06-0.10	0.0-2.9	0.0-0.5
297245									
Lordstown	0-3	45	42	8-18	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	3.0-8.0
	3-28	68	16	5-26	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.1-2.0
	28-30	66	23	5-18	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-1.0
	30-40	---	---	---	---	---	---	---	---
Swartswood	0-4	68	16	12-20	1.20-1.40	0.6-2.0	0.08-0.12	0.0-2.9	5.0-10
	4-32	69	16	10-20	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-1.0
	32-70	70	16	8-20	1.40-1.80	0.1-0.6	0.06-0.10	0.0-2.9	0.0-0.5
297246									
Lordstown	0-3	45	42	8-18	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	3.0-8.0
	3-28	68	16	5-26	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.1-2.0
	28-30	66	23	5-18	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-1.0
	30-40	---	---	---	---	---	---	---	---
Swartswood	0-4	68	16	12-20	1.20-1.40	0.6-2.0	0.08-0.12	0.0-2.9	5.0-10
	4-32	69	16	10-20	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.0-1.0
	32-70	70	16	8-20	1.40-1.80	0.1-0.6	0.06-0.10	0.0-2.9	0.0-0.5
297247									
Chenango	0-10	70	22	5-12	1.10-1.30	0.6-6.0	0.08-0.16	0.0-2.9	2.0-6.0
	10-29	70	22	5-12	1.10-1.50	0.6-6.0	0.07-0.15	0.0-2.9	0.0-1.0
	29-70	78	18	1-6	1.30-1.60	6.0-20.0	0.01-0.05	0.0-2.9	0.0-1.0
297248									
Chenango	0-10	70	22	5-12	1.10-1.30	0.6-6.0	0.08-0.16	0.0-2.9	2.0-6.0
	10-29	70	22	5-12	1.10-1.50	0.6-6.0	0.07-0.15	0.0-2.9	0.0-1.0
	29-70	78	18	1-6	1.30-1.60	6.0-20.0	0.01-0.05	0.0-2.9	0.0-1.0
297249									
Chenango	0-10	70	22	5-12	1.10-1.30	0.6-6.0	0.08-0.16	0.0-2.9	2.0-6.0
	10-29	70	22	5-12	1.10-1.50	0.6-6.0	0.07-0.15	0.0-2.9	0.0-1.0
	29-70	78	18	1-6	1.30-1.60	6.0-20.0	0.01-0.05	0.0-2.9	0.0-1.0
297250									
Lordstown	0-3	45	42	8-18	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	3.0-8.0
	3-28	68	16	5-26	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.1-2.0
	28-30	66	23	5-18	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-1.0
	30-40	---	---	---	---	---	---	---	---

Table 15.--Physical Soil Properties--Continued

Map unit symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Shrink-swell potential	Organic matter
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*
297251									
Lordstown-------	0-3	45	42	8-18	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	3.0-8.0
	3-28	68	16	5-26	1.20-1.50	0.6-2.0	0.10-0.16	0.0-2.9	0.1-2.0
	28-30	66	23	5-18	1.20-1.50	0.6-2.0	0.05-0.14	0.0-2.9	0.0-1.0
	30-40	---	---	---	---	---	---	---	---
297253									
Craigsville-----	0-5	46	44	5-15	1.20-1.40	2.0-20.0	0.07-0.15	0.0-2.9	2.0-5.0
	5-27	67	23	5-15	1.30-1.60	2.0-20.0	0.06-0.15	0.0-2.9	0.0-0.5
	27-77	84	9	5-10	1.35-1.55	6.0-20.0	0.04-0.09	0.0-2.9	0.0-0.5
Wyoming---------	0-3	67	20	8-18	1.10-1.40	6.0-20.0	0.06-0.14	0.0-2.9	2.0-4.0
	3-33	68	22	5-15	1.10-1.50	6.0-20.0	0.06-0.09	0.0-2.9	0.0-0.5
	33-72	83	11	1-11	1.30-1.60	6.0-20.0	0.02-0.04	0.0-2.9	0.0-0.5
309440									
Edgemere--------	0-2	---	---	0-0	0.50-0.90	0.6-2.0	0.23-0.45	0.0-2.9	4.0-20
	2-5	45	43	8-15	1.10-1.40	0.6-2.0	0.12-0.18	0.0-2.9	2.0-8.0
	5-24	45	43	8-15	1.20-1.50	0.6-2.0	0.11-0.18	0.0-2.9	0.0-1.0
	24-66	67	20	8-18	1.70-2.00	0.1-0.2	0.02-0.04	0.0-2.9	0.0-1.0
Shohola---------	0-3	45	43	8-15	1.10-1.40	0.6-2.0	0.08-0.18	0.0-2.9	2.0-4.0
	3-24	45	43	8-15	1.20-1.50	0.6-2.0	0.08-0.18	0.0-2.9	0.0-0.5
	24-72	68	21	8-15	1.70-2.00	0.0-0.2	0.02-0.04	0.0-2.9	0.0-0.5
319863									
Oquaga----------	0-2	43	40	7-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	2.0-8.0
	2-26	43	40	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	26-32	64	19	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	32-42	---	---	---	---	---	---	---	---
Arnot-----------	0-3	45	42	8-18	1.10-1.40	0.6-2.0	0.10-0.15	0.0-2.9	2.0-8.0
	3-14	31	56	8-18	1.20-1.50	0.6-2.0	0.08-0.12	0.0-2.9	0.1-3.0
	14-24	---	---	---	---	---	---	---	---
319865									
Wellsboro-------	0-8	45	41	10-18	1.10-1.40	0.6-2.0	0.11-0.17	0.0-2.9	3.0-7.0
	8-17	42	37	15-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	17-21	42	37	15-27	1.30-1.50	0.6-2.0	0.10-0.14	0.0-2.9	0.0-0.5
	21-60	65	16	15-27	1.50-1.90	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.5
	60-80	65	16	15-27	1.70-1.95	0.1-0.2	0.06-0.10	0.0-2.9	0.0-0.5
741008									
Oquaga----------	0-2	43	40	7-27	1.10-1.40	0.6-2.0	0.08-0.17	0.0-2.9	2.0-8.0
	2-26	29	54	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	26-32	64	19	7-27	1.20-1.50	0.6-2.0	0.04-0.12	0.0-2.9	0.0-2.0
	32-42	---	---	---	---	---	---	---	---

Table 16.--Erosion Properties

[Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Wind erodibility index" apply only to the surface layer]

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
290457						
Barbour	0-6	.28	.28	3	5	56
	6-18	.32	.37			
	18-26	.32	.37			
	26-72	.17	.20			
290461						
Bath	0-9	.24	.32	3	5	56
	9-20	.24	.28			
	20-26	.24	.32			
	26-72	.24	.32			
290465						
Cadosia	0-6	.15	.28	4	8	0
	6-23	.24	.20			
	23-32	.20	.32			
	32-58	.20	.32			
	58-72	.20	.20			
290466						
Cadosia	0-6	.15	.28	4	8	0
	6-23	.24	.20			
	23-32	.20	.32			
	32-58	.20	.32			
	58-72	.20	.20			
290468						
Chenango	0-10	.24	.32	3	5	56
	10-21	.17	.24			
	21-25	.17	.24			
	25-72	.17	.24			
290483						
Fluvaquents	0-8	.10	.15	5	3	86
	8-72	.28	.32			
Udifluvents	0-8	.28	.32	5	3	86
	8-72	.28	.32			
290484						
Halcott	0-3	.20	.28	2	8	0
	3-11	.17	.24			
	11-18	.17	.24			
	18-28	---	---			
Mongaup	0-5	.20	.28	3	8	0
	5-12	.24	.28			
	12-20	.24	.28			
	20-28	.24	.28			
	28-38	---	---			
Vly	0-6	.24	.32	3	8	0
	6-18	.20	.28			
	18-24	.20	.28			
	24-31	.20	.28			
	31-41	---	---			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
290485						
Halcott	0-3	.20	.28	2	8	0
	3-11	.17	.24			
	11-18	.17	.24			
	18-28	---	---			
Mongaup	0-5	.20	.28	3	8	0
	5-12	.24	.28			
	12-20	.24	.28			
	20-28	.24	.28			
	28-38	---	---			
Vly	0-6	.24	.32	3	8	0
	6-18	.20	.28			
	18-24	.20	.28			
	24-31	.20	.28			
	31-41	---	---			
290487						
Lackawanna	0-7	.24	.32	3	6	48
	7-18	.20	.24			
	18-28	.20	.24			
	28-48	.20	.24			
	48-72	.20	.24			
290488						
Lackawanna	0-7	.24	.32	3	6	48
	7-18	.20	.24			
	18-28	.20	.24			
	28-48	.20	.24			
	48-72	.20	.24			
290489						
Lackawanna	0-7	.24	.32	3	6	48
	7-18	.20	.24			
	18-28	.20	.24			
	28-48	.20	.24			
	48-72	.20	.24			
290490						
Lackawanna	0-7	.24	.32	3	6	48
	7-18	.20	.24			
	18-28	.20	.24			
	28-48	.20	.24			
	48-72	.20	.24			
290491						
Lackawanna	0-7	.24	.32	3	8	0
	7-18	.20	.24			
	18-28	.20	.24			
	28-48	.20	.24			
	48-72	.20	.24			
Bath	0-9	.24	.32	3	8	0
	9-20	.24	.28			
	20-26	.24	.32			
	26-72	.24	.32			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
290492						
Lackawanna	0-7	.24	.32	3	8	0
	7-18	.20	.24			
	18-28	.20	.24			
	28-48	.20	.24			
	48-72	.20	.24			
Bath	0-9	.24	.32	3	8	0
	9-20	.24	.28			
	20-26	.24	.32			
	26-72	.24	.32			
290493						
Lackawanna	0-7	.24	.32	3	8	0
	7-18	.20	.24			
	18-28	.20	.24			
	28-48	.20	.24			
	48-72	.20	.24			
Bath	0-9	.24	.32	3	8	0
	9-20	.24	.28			
	20-26	.24	.32			
	26-72	.24	.32			
290506						
Lordstown	0-3	.24	.32	3	5	56
	3-6	.28	.32			
	6-19	.28	.32			
	19-27	.28	.32			
	27-32	.28	.37			
	32-42	---	---			
290507						
Lordstown	0-3	.24	.32	3	5	56
	3-6	.28	.32			
	6-19	.28	.32			
	19-27	.28	.32			
	27-32	.28	.37			
	32-42	---	---			
290509						
Lordstown	0-3	.24	.32	3	5	56
	3-6	.28	.32			
	6-19	.28	.32			
	19-27	.28	.32			
	27-32	.28	.37			
	32-42	---	---			
290510						
Maplecrest	0-3	.24	.32	5	5	56
	3-6	.24	.28			
	6-18	.24	.28			
	18-36	.24	.28			
	36-46	.24	.28			
	46-72	.24	.32			
290511						
Maplecrest	0-3	.24	.32	5	5	56
	3-6	.24	.28			
	6-18	.24	.28			
	18-36	.24	.28			
	36-46	.24	.28			
	46-72	.24	.32			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
290511						
Maplecrest	0-3	.24	.32	5	5	56
	3-6	.24	.28			
	6-18	.24	.28			
	18-36	.24	.28			
	36-46	.24	.28			
	46-72	.24	.32			
290514						
Mardin	0-5	.24	.32	2	5	56
	5-14	.24	.28			
	14-23	.24	.28			
	23-26	.24	.28			
	26-52	.24	.32			
	52-72	.24	.32			
290515						
Mardin	0-5	.24	.32	2	5	56
	5-14	.24	.28			
	14-23	.24	.28			
	23-26	.24	.28			
	26-52	.24	.32			
	52-72	.24	.32			
290519						
Mongaup	0-5	.20	.28	3	5	56
	5-12	.24	.28			
	12-20	.24	.28			
	20-28	.24	.28			
	28-38	---	---			
290522						
Morris	0-8	.24	.32	2	6	48
	8-14	.24	.28			
	14-26	.24	.28			
	26-72	.24	.28			
290523						
Morris	0-8	.24	.32	2	6	48
	8-14	.24	.28			
	14-26	.24	.28			
	26-72	.24	.28			
290525						
Morris	0-8	.24	.32	2	8	0
	8-14	.24	.28			
	14-26	.24	.28			
	26-72	.24	.28			
Volusia	0-8	.24	.32	2	8	0
	8-15	.24	.28			
	15-22	.24	.28			
	22-52	.24	.28			
	52-72	.24	.32			
290526						
Norchip	0-2	.28	.32	2	5	56
	2-7	.32	.32			
	7-11	.32	.32			
	11-25	.24	.28			
	25-52	.24	.28			
	52-72	.24	.28			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
290535						
Oquaga	0-6	.24	.32	3	5	56
	6-24	.24	.32			
	24-34	---	---			
290536						
Oquaga	0-6	.24	.32	3	5	56
	6-24	.24	.32			
	24-34	---	---			
290539						
Oquaga	0-6	.24	.32	3	5	56
	6-24	.24	.32			
	24-34	---	---			
290540						
Oquaga	0-6	.24	.32	3	8	0
	6-24	.24	.32			
	24-34	---	---			
Lordstown	0-3	.24	.32	3	8	0
	3-6	.28	.32			
	6-19	.28	.32			
	19-27	.28	.32			
	27-32	.28	.37			
	32-42	---	---			
Arnot	0-2	.20	.28	2	8	0
	2-8	.17	.24			
	8-17	.17	.24			
	17-27	---	---			
290541						
Oquaga	0-6	.24	.32	3	8	0
	6-24	.24	.32			
	24-34	---	---			
Lordstown	0-3	.24	.32	3	8	0
	3-6	.28	.32			
	6-19	.28	.32			
	19-27	.28	.32			
	27-32	.28	.37			
	32-42	---	---			
Arnot	0-2	.20	.28	2	8	0
	2-8	.17	.24			
	8-17	.17	.24			
	17-27	---	---			
290542						
Oquaga	0-6	.24	.32	3	8	0
	6-24	.24	.32			
	24-34	---	---			
Lordstown	0-3	.24	.32	3	8	0
	3-6	.28	.32			
	6-19	.28	.32			
	19-27	.28	.32			
	27-32	.28	.37			
	32-42	---	---			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
290542						
Arnot	0-2	.20	.28	2	8	0
	2-8	.17	.24			
	8-17	.17	.24			
	17-27	---	---			
290544						
Pits, gravel.						
290546						
Raypol	0-5	.32	.32	3	5	56
	5-10	.49	.49			
	10-13	.49	.49			
	13-21	.49	.49			
	21-27	.10	.15			
	27-32	.10	.15			
	32-40	.10	.15			
	40-72	.10	.15			
290547						
Red Hook	0-8	.24	.32	4	5	56
	8-17	.24	.28			
	17-25	.24	.28			
	25-38	.24	.28			
	38-72	.17	.24			
290548						
Riverhead	0-7	.24	.28	3	3	86
	7-22	.28	.32			
	22-28	.17	.20			
	28-72	.17	.20			
290549						
Riverhead	0-7	.24	.28	3	3	86
	7-22	.28	.32			
	22-28	.17	.20			
	28-72	.17	.20			
290555						
Torull	0-3	---	---	2	5	56
	3-5	.28	.32			
	5-8	.20	.24			
	8-13	.20	.24			
	13-18	.20	.24			
	18-28	---	---			
Gretor	0-7	.28	.32	3	5	56
	7-16	.28	.32			
	16-26	.28	.32			
	26-36	---	---			
290556						
Tunkhannock	0-6	.20	.28	4	6	48
	6-8	.17	.24			
	8-18	.17	.24			
	18-25	.17	.24			
	25-72	.17	.24			
290562						
Tunkhannock	0-6	.20	.28	4	6	48
	6-8	.17	.24			
	8-18	.17	.24			
	18-25	.17	.24			
	25-72	.17	.24			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
290562						
Chenango	0-10	.24	.32	3	5	56
	10-21	.17	.24			
	21-25	.17	.24			
	25-72	.17	.24			
290563						
Udorthents	0-4	.17	.24	5	6	48
	4-70	.32	.37			
290565						
Unadilla	0-6	.43	.43	4	5	56
	6-15	.49	.49			
	15-34	.64	.64			
	34-39	.64	.64			
	39-50	.64	.64			
	50-72	.17	.20			
290567						
Valois	0-4	.28	.32	4	3	86
	4-5	.24	.28			
	5-15	.24	.28			
	15-31	.24	.28			
	31-72	.24	.32			
290568						
Valois	0-4	.28	.32	4	3	86
	4-5	.24	.28			
	5-15	.24	.28			
	15-31	.24	.28			
	31-72	.24	.32			
290569						
Valois	0-4	.28	.32	4	3	86
	4-5	.24	.28			
	5-15	.24	.28			
	15-31	.24	.28			
	31-72	.24	.32			
290570						
Valois	0-4	.28	.32	4	3	86
	4-5	.24	.28			
	5-15	.24	.28			
	15-31	.24	.28			
	31-72	.24	.32			
290576						
Volusia	0-8	.24	.32	2	5	56
	8-15	.24	.28			
	15-22	.24	.28			
	22-52	.24	.28			
	52-72	.24	.32			
290578						
Wellsboro	0-8	.24	.32	3	6	48
	8-18	.28	.43			
	18-25	.28	.43			
	25-38	.28	.32			
	38-52	.28	.32			
	52-62	.28	.32			
	62-72	.28	.32			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
290579						
Wellsboro	0-8	.24	.32	3	6	48
	8-18	.28	.43			
	18-25	.28	.43			
	25-38	.28	.32			
	38-52	.28	.32			
	52-62	.28	.32			
	62-72	.28	.32			
290581						
Wellsboro	0-8	.24	.32	3	8	0
	8-18	.28	.43			
	18-25	.28	.43			
	25-38	.28	.32			
	38-52	.28	.32			
	52-62	.28	.32			
	62-72	.28	.32			
Mardin	0-5	.24	.32	2	8	0
	5-14	.24	.28			
	14-23	.24	.28			
	23-26	.24	.28			
	26-52	.24	.32			
	52-72	.24	.32			
290582						
Wenonah	0-10	.37	.37	4	5	56
	10-20	.32	.32			
	20-32	.32	.32			
	32-60	.32	.37			
	60-72	.32	.37			
290592						
Carlisle	0-8	---	---	3	2	134
	8-42	---	---			
	42-65	---	---			
	65-72	---	---			
Palms	0-6	---	---	2	2	134
	6-22	---	---			
	22-36	---	---			
	36-72	.37	.37			
293892						
Alden, extremely stony	0-9	.28	.32	4	8	0
	9-36	.37	---			
	36-60	.28	---			
293895						
Arnot	0-4	.24	.32	2	8	0
	4-15	.17	---			
	15-19	---	---			
Lordstown	0-2	---	---	3	8	0
	2-8	.24	.32			
	8-21	.28	---			
	21-37	.28	---			
	37-41	---	---			
293896						
Arnot	0-3	.24	.32	2	8	0
	3-14	.17	---			
	14-19	---	---			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
293896						
Lordstown	0-2	---	---	3	8	0
	2-7	.24	.32			
	7-21	.28	---			
	21-35	.28	---			
	35-43	---	---			
293897						
Arnot	0-3	.24	.32	2	8	0
	3-13	.17	---			
	13-19	---	---			
Lordstown	0-2	---	---	3	8	0
	2-7	.24	.32			
	7-21	.28	---			
	21-34	.28	---			
	34-43	---	---			
293921						
Erie, extremely stony	0-4	.17	.32	2	8	0
	4-18	.24	---			
	18-50	.24	---			
	50-70	.24	---			
293929						
Hoosic	0-6	.17	.24	4	8	0
	6-28	.17	---			
	28-60	.17	---			
293930						
Hoosic	0-5	.17	.24	4	8	0
	5-25	.17	---			
	25-60	.17	---			
293931						
Hoosic	0-5	.17	.24	4	8	0
	5-23	.17	---			
	23-60	.17	---			
293932						
Lordstown	0-2	---	---	3	8	0
	2-8	.24	.32			
	8-21	.28	---			
	21-38	.28	---			
	38-42	---	---			
293939						
Middlebury	0-11	.37	.37	5	8	0
	11-42	.28	---			
	42-60	.20	---			
293943						
Otisville	0-6	.15	.20	4	8	0
	6-28	.17	---			
	28-60	.17	---			
293944						
Otisville	0-6	.15	.20	4	8	0
	6-26	.17	---			
	26-60	.17	---			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
293945						
Otisville	0-5	.15	.20	4	8	0
	5-23	.17	---			
	23-60	.17	---			
293946						
Otisville	0-4	.15	.20	4	8	0
	4-20	.17	---			
	20-60	.17	---			
Hoosic	0-4	.17	.24	4	8	0
	4-22	.17	---			
	22-60	.17	---			
293949						
Pits, gravel.						
293961						
Rock outcrop.						
Arnot	0-4	.24	.32	2	8	0
	4-15	.17	---			
	15-19	---	---			
293962						
Rock outcrop.						
Arnot	0-4	.24	.32	2	8	0
	4-14	.17	---			
	14-19	---	---			
293963						
Rock outcrop.						
Arnot	0-4	.24	.32	2	8	0
	4-12	.17	---			
	12-19	---	---			
293975						
Suncook	0-4	.24	.24	5	8	0
	4-37	.17	---			
	37-60	.10	---			
293979						
Swartswood, very stony	0-3	.20	.28	3	8	0
	3-31	.20	---			
	31-60	.20	---			
Mardin	0-6	.24	.32	2	8	0
	6-17	.24	---			
	17-60	.24	---			
293980						
Swartswood, very stony	0-2	.20	.28	3	8	0
	2-28	.20	---			
	28-60	.20	---			
Mardin	0-6	.24	.32	2	8	0
	6-15	.24	---			
	15-60	.24	---			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
293981						
Swartswood, very stony---	0-2	.20	.28	3	8	0
	2-26	.20	---			
	26-60	.20	---			
Mardin---	0-5	.24	.32	2	8	0
	5-14	.24	---			
	14-60	.24	---			
293983						
Udifluvents, frequently flooded---	0-4	.20	.28	5	8	0
	4-70	---	---			
Fluvaquents---	0-5	.24	.32	5	8	0
	5-70	.28	---			
295043						
Alden---	0-12	.28	.32	4	8	0
	12-33	.37	---			
	33-60	.28	---			
295044						
Arnot---	0-1	---	---	2	8	0
	1-3	.20	.28			
	3-17	.17	---			
	17-21	---	---			
Lordstown---	0-3	---	---	3	8	0
	3-6	.28	.32			
	6-20	.28	---			
	20-28	.28	---			
	28-32	---	---			
295045						
Arnot---	0-1	---	---	2	8	0
	1-3	.20	.28			
	3-17	.17	---			
	17-21	---	---			
Lordstown---	0-3	---	---	3	8	0
	3-6	.28	.32			
	6-20	.28	---			
	20-28	.28	---			
	28-32	---	---			
295046						
Arnot---	0-1	---	---	2	8	0
	1-3	.20	.28			
	3-17	.17	---			
	17-21	---	---			
Oquaga---	0-2	---	---	3	8	0
	2-6	.20	.32			
	6-36	.20	---			
	36-40	---	---			
295047						
Arnot---	0-1	---	---	2	8	0
	1-3	.20	.28			
	3-17	.17	---			
	17-21	---	---			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
295047						
Oquaga	0-2	---	---	3	8	0
	2-6	.20	.32			
	6-36	.20	---			
	36-40	---	---			
295048						
Arnot	0-1	---	---	2	8	0
	1-3	.20	.28			
	3-17	.17	---			
	17-21	---	---			
Rock outcrop.						
295049						
Arnot	0-1	---	---	2	8	0
	1-3	.20	.28			
	3-17	.17	---			
	17-21	---	---			
Rock outcrop.						
295050						
Arnot	0-1	---	---	2	8	0
	1-3	.20	.28			
	3-17	.17	---			
	17-21	---	---			
Rock outcrop.						
295051						
Barbour	0-8	.28	.28	3	8	0
	8-30	.32	---			
	30-60	.17	---			
295052						
Bash	0-5	.37	.37	5	8	0
	5-22	.32	---			
	22-45	.32	---			
	45-60	.24	---			
295053						
Carlisle	0-60	---	---	3	2	134
295054						
Carlisle, ponded	0-60	---	---	3	2	134
Palms, ponded	0-12	---	---	2	2	134
	12-22	---	---			
	22-60	.37	---			
Alden, ponded	0-12	.28	.32	4	8	0
	12-33	.37	---			
	33-60	.28	---			
295055						
Chenango	0-4	.20	.28	3	8	0
	4-31	.17	---			
	31-60	.17	---			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
295056						
Chenango	0-4	.20	.28	3	8	0
	4-31	.17	---			
	31-60	.17	---			
295057						
Chenango	0-4	.20	.28	3	8	0
	4-31	.17	---			
	31-60	.17	---			
295059						
Cheshire, stony	0-5	.20	.28	4	8	0
	5-36	.32	---			
	36-60	.24	---			
295060						
Cheshire, stony	0-5	.20	.28	4	8	0
	5-36	.32	---			
	36-60	.24	---			
295061						
Cheshire, stony	0-5	.20	.28	4	8	0
	5-36	.32	---			
	36-60	.24	---			
295062						
Cheshire, stony	0-5	.20	.28	4	8	0
	5-36	.32	---			
	36-60	.24	---			
295063						
Cheshire, stony	0-5	.20	.28	4	8	0
	5-36	.32	---			
	36-60	.24	---			
295069						
Fluvaquents	0-5	.24	.32	5	8	0
	5-70	.28	---			
Udifluvents, frequently flooded	0-4	.24	.32	5	8	0
	4-70	---	---			
295074						
Lackawanna	0-2	---	---	3	8	0
	2-5	.17	.24			
	5-34	.20	---			
	34-60	.20	---			
295075						
Lackawanna	0-2	---	---	3	8	0
	2-5	.17	.24			
	5-34	.20	---			
	34-60	.20	---			
295076						
Lackawanna	0-2	---	---	3	8	0
	2-5	.17	.24			
	5-34	.20	---			
	34-60	.20	---			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
295082						
Lordstown, stony---	0-3	---	---	3	8	0
	3-6	.28	.32			
	6-20	.28	---			
	20-28	.28	---			
	28-32	---	---			
295083						
Lordstown, very stony---	0-3	---	---	3	8	0
	3-6	.28	.32			
	6-20	.28	---			
	20-28	.28	---			
	28-32	---	---			
Arnot, very stony---	0-1	---	---	2	8	0
	1-3	.20	.28			
	3-17	.17	---			
	17-21	---	---			
295092						
Morris---	0-6	.20	.24	2	8	0
	6-20	.32	---			
	20-60	.24	---			
295093						
Morris---	0-6	.20	.24	2	8	0
	6-20	.32	---			
	20-60	.24	---			
295094						
Morris---	0-6	.20	.24	2	8	0
	6-20	.32	---			
	20-60	.24	---			
295095						
Neversink---	0-2	---	---	4	8	0
	2-7	.24	.28			
	7-23	.20	---			
	23-60	.20	---			
295101						
Oquaga---	0-2	---	---	3	8	0
	2-6	.20	.32			
	6-36	.20	---			
	36-40	---	---			
295102						
Oquaga---	0-2	---	---	3	8	0
	2-6	.20	.32			
	6-36	.20	---			
	36-40	---	---			
Arnot---	0-1	---	---	2	8	0
	1-3	.20	.28			
	3-17	.17	---			
	17-21	---	---			
295103						
Oquaga---	0-2	---	---	3	8	0
	2-6	.20	.32			
	6-36	.20	---			
	36-40	---	---			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
295103						
Arnot	0-1	---	---	2	8	0
	1-3	.20	.28			
	3-17	.17	---			
	17-21	---	---			
295105						
Otisville	0-9	.02	.10	4	8	0
	9-33	.17	---			
	33-60	.17	---			
295106						
Otisville	0-9	.02	.10	4	8	0
	9-33	.17	---			
	33-60	.17	---			
295107						
Otisville	0-9	.02	.10	4	8	0
	9-33	.17	---			
	33-60	.17	---			
295109						
Palms	0-12	---	---	2	2	134
	12-22	---	---			
	22-60	.37	---			
295110						
Philo	0-10	.37	.37	5	8	0
	10-38	.32	---			
	38-45	.24	---			
	45-60	.24	---			
295111.						
Pits, gravel.						
295112.						
Pits, gravel.						
295113						
Pompton	0-10	.24	.28	4	8	0
	10-30	.24	---			
	30-60	.17	---			
295114						
Pompton	0-10	.24	.28	4	8	0
	10-30	.24	---			
	30-60	.17	---			
295115						
Pope, occasionally flooded	0-3	.37	.37	5	8	0
	3-32	.28	---			
	32-60	.28	---			
295116						
Pope, rarely flooded	0-6	.37	.37	5	8	0
	6-31	.28	---			
	31-60	.28	---			
295117						
Raynham, poorly drained	0-8	.49	.49	4	8	0
	8-30	.64	---			
	30-62	.64	---			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
295117						
Raynham, somewhat poorly-	0-8	.49	.49	4	8	0
	8-30	.64	---			
	30-62	.64	---			
295118						
Red Hook----------	0-7	.20	.24	4	8	0
	7-38	.24	---			
	38-60	.17	---			
295119						
Riverhead----------	0-6	.17	.20	3	8	0
	6-20	.28	---			
	20-30	.17	---			
	30-60	.17	---			
295120						
Riverhead----------	0-6	.17	.20	3	8	0
	6-20	.28	---			
	20-30	.17	---			
	30-60	.17	---			
295121						
Riverhead----------	0-6	.17	.20	3	8	0
	6-20	.28	---			
	20-30	.17	---			
	30-60	.17	---			
295122						
Scio----------	0-6	.49	.49	4	8	0
	6-29	.17	---			
	29-60	.17	---			
295123						
Scriba, stony----------	0-2	---	---	2	8	0
	2-8	.24	.28			
	8-20	.20	---			
	20-60	.20	---			
295124						
Scriba, stony----------	0-2	---	---	2	8	0
	2-8	.24	.28			
	8-20	.20	---			
	20-60	.20	---			
295125						
Scriba, extremely stony--	0-2	---	---	2	8	0
	2-8	.24	.28			
	8-20	.20	---			
	20-60	.20	---			
Morris, extremely stony--	0-6	.20	.24	2	8	0
	6-20	.32	---			
	20-60	.24	---			
295126						
Suncook----------	0-8	.32	.32	5	8	0
	8-44	.17	---			
	44-60	.10	---			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
295129						
Swartswood	0-1	.20	.28	3	8	0
	1-26	.20	---			
	26-60	.20	---			
295130						
Swartswood	0-1	.20	.28	3	8	0
	1-26	.20	---			
	26-60	.20	---			
295131						
Swartswood	0-1	.20	.28	3	8	0
	1-26	.20	---			
	26-60	.20	---			
295132						
Swartswood, stony	0-2	---	---	3	8	0
	2-3	.20	.28			
	3-28	.20	---			
	28-60	.20	---			
Lackawanna, stony	0-2	---	---	3	8	0
	2-5	.17	.24			
	5-34	.20	---			
	34-60	.20	---			
295133						
Swartswood, very stony	0-2	---	---	3	8	0
	2-3	.20	.28			
	3-28	.20	---			
	28-60	.20	---			
Lackawanna, very stony	0-2	---	---	3	8	0
	2-5	.17	.24			
	5-34	.20	---			
	34-60	.20	---			
295134						
Swartswood, very stony	0-2	---	---	3	8	0
	2-3	.20	.28			
	3-28	.20	---			
	28-60	.20	---			
Lackawanna, very stony	0-2	---	---	3	8	0
	2-5	.17	.24			
	5-34	.20	---			
	34-60	.20	---			
295136						
Tuller, somewhat poorly drained	0-1	---	---	2	8	0
	1-5	.32	.37			
	5-12	---	---			
	12-16	---	---			
Tuller, poorly drained	0-1	---	---	2	8	0
	1-5	.32	.37			
	5-12	---	---			
	12-16	---	---			
Rock outcrop.						

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
295137						
Tunkhannock	0-6	.20	.28	4	8	0
	6-38	.17	---			
	38-60	.17	---			
295138						
Tunkhannock	0-6	.20	.28	4	8	0
	6-38	.17	---			
	38-60	.17	---			
295139						
Tunkhannock	0-6	.20	.28	4	8	0
	6-38	.17	---			
	38-60	.17	---			
295140						
Tunkhannock	0-6	.20	.28	4	8	0
	6-38	.17	---			
	38-60	.17	---			
295141						
Tunkhannock	0-6	.20	.28	4	8	0
	6-38	.17	---			
	38-60	.17	---			
Otisville	0-9	.02	.10	4	8	0
	9-33	.17	---			
	33-60	.17	---			
295142						
Tunkhannock	0-6	.20	.28	4	8	0
	6-38	.17	---			
	38-60	.17	---			
Otisville	0-9	.02	.10	4	8	0
	9-33	.17	---			
	33-60	.17	---			
295143						
Udorthents	---	---	---	---	8	0
295144						
Unadilla	0-5	.49	.49	4	8	0
	5-29	.64	---			
	29-42	.17	---			
	42-60	.17	---			
295145						
Unadilla	0-5	.49	.49	4	8	0
	5-29	.64	---			
	29-42	.17	---			
	42-60	.17	---			
295146						
Valois	0-1	---	---	4	8	0
	1-4	.15	.20			
	4-26	.24	---			
	26-37	.24	---			
	37-60	.24	---			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
295147						
Valois	0-1	---	---	4	8	0
	1-4	.15	.20			
	4-26	.24	---			
	26-37	.24	---			
	37-60	.24	---			
295148						
Valois	0-1	---	---	4	8	0
	1-4	.15	.20			
	4-26	.24	---			
	26-37	.24	---			
	37-60	.24	---			
295149						
Valois	0-1	---	---	4	8	0
	1-4	.15	.20			
	4-26	.24	---			
	26-37	.24	---			
	37-60	.24	---			
295150						
Valois	0-1	---	---	4	8	0
	1-4	.15	.20			
	4-26	.24	---			
	26-37	.24	---			
	37-60	.24	---			
295153						
Wayland	0-7	.43	.43	5	8	0
	7-20	.43	---			
	20-32	.43	---			
	32-60	.43	---			
295154						
Wellsboro	0-7	.20	.28	3	8	0
	7-23	.28	---			
	23-60	.28	---			
295155						
Wellsboro	0-7	.20	.28	3	8	0
	7-23	.28	---			
	23-60	.28	---			
295156						
Wellsboro	0-7	.20	.28	3	8	0
	7-23	.28	---			
	23-60	.28	---			
295157						
Wellsboro, extremely stony	0-7	.20	.28	3	8	0
	7-23	.28	---			
	23-60	.28	---			
Wurtsboro, extremely stony	0-2	---	---	3	8	0
	2-4	.24	.28			
	4-28	.28	---			
	28-60	.28	---			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
295162						
Wurtsboro, stony---	0-2	---	---	3	8	0
	2-4	.24	.28			
	4-28	.28	---			
	28-60	.28	---			
295163						
Wurtsboro, stony---	0-2	---	---	3	8	0
	2-4	.24	.28			
	4-28	.28	---			
	28-60	.28	---			
295164						
Wurtsboro, stony---	0-2	---	---	3	8	0
	2-4	.24	.28			
	4-28	.28	---			
	28-60	.28	---			
296588						
Arnot---	0-4	.24	.28	2	8	0
	4-17	.17	.24			
	17-24	---	---			
296589						
Arnot---	0-4	.24	.28	2	8	0
	4-17	.17	.24			
	17-24	---	---			
296590						
Arnot---	0-4	.24	.28	2	8	0
	4-17	.17	.24			
	17-24	---	---			
296591						
Barbour---	0-12	.32	.32	5	5	56
	12-28	.32	.37			
	28-60	.17	.20			
296592						
Basher---	0-14	.32	.32	5	5	56
	14-40	.32	.32			
	40-56	.32	.32			
	56-69	.17	.20			
296593						
Fluvents---	0-6	.43	.43	5	8	0
	6-60	.37	.37			
Fluvaquents---	0-6	.43	.43	5	8	0
	6-60	.37	.37			
296594						
Holly---	0-12	.28	.28	5	8	0
	12-28	.28	.32			
	28-42	.28	.32			
	42-60	.28	.37			
296595						
Linden---	0-11	.37	.37	4	5	56
	11-48	.37	.37			
	48-65	.17	.20			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
296596						
Lordstown	0-7	.20	.28	3	5	56
	7-26	.28	.32			
	26-30	.28	.37			
	30-42	---	---			
296599						
Lordstown	0-7	.20	.28	3	8	0
	7-26	.28	.32			
	26-30	.28	.37			
	30-42	---	---			
296600						
Lordstown	0-7	.20	.28	3	8	0
	7-26	.28	.32			
	26-30	.28	.37			
	30-42	---	---			
296601						
Medihemists	0-60	---	---	3	8	0
Medifibrists	0-60	---	---	3	8	0
296602						
Mardin	0-8	.24	.32	3	5	56
	8-17	.24	.28			
	17-21	.24	.28			
	21-60	.24	.32			
	60-80	.24	.32			
296603						
Mardin	0-8	.24	.32	3	5	56
	8-17	.24	.28			
	17-21	.24	.28			
	21-60	.24	.32			
	60-80	.24	.32			
296604						
Mardin	0-8	.24	.32	3	5	56
	8-17	.24	.28			
	17-21	.24	.28			
	21-60	.24	.32			
	60-80	.24	.32			
296605						
Mardin	0-8	.24	.32	3	8	0
	8-17	.24	.28			
	17-21	.24	.28			
	21-60	.24	.32			
	60-80	.24	.32			
296606						
Mardin	0-8	.24	.32	3	8	0
	8-17	.24	.28			
	17-21	.24	.28			
	21-60	.24	.32			
	60-80	.24	.32			
296608						
Morris	0-8	.28	.32	3	6	48
	8-17	.28	.32			
	17-70	.24	.28			
	70-80	.24	.28			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
296609						
Morris	0-8	.28	.32	3	6	48
	8-17	.28	.32			
	17-70	.24	.28			
	70-80	.24	.28			
296610						
Morris	0-8	.24	.32	3	8	0
	8-17	.24	.32			
	17-70	.24	.28			
	70-80	.24	.28			
296611						
Morris	0-8	.24	.32	3	8	0
	8-17	.24	.32			
	17-70	.24	.28			
	70-80	.24	.28			
296613						
Norwich	0-8	.24	.32	3	8	0
	8-16	.24	.28			
	16-48	.24	.32			
	48-80	.24	.32			
Chippewa	0-8	.24	.28	3	8	0
	8-16	.32	.37			
	16-48	.24	.28			
	48-80	.24	.32			
296614						
Oquaga	0-7	.28	.37	3	5	56
	7-30	.20	.32			
	30-42	---	---			
296615						
Oquaga	0-7	.28	.37	3	5	56
	7-30	.20	.32			
	30-42	---	---			
296616						
Oquaga	0-7	.28	.37	3	5	56
	7-30	.20	.32			
	30-42	---	---			
296617						
Oquaga	0-7	.20	.37	3	8	0
	7-30	.20	.28			
	30-42	---	---			
296618						
Oquaga	0-7	.20	.37	3	8	0
	7-30	.20	.28			
	30-42	---	---			
296619						
Oquaga	0-7	.20	.37	3	8	0
	7-30	.20	.28			
	30-42	---	---			
Lordstown	0-7	.20	.28	3	8	0
	7-26	.20	.28			
	26-30	.28	.37			
	30-42	---	---			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
296621						
Quarries.						
296622						
Rexford, poorly drained--	0-8	.24	.28	3	8	0
	8-18	.20	.32			
	18-40	.20	.32			
	40-63	.20	.32			
Rexford, somewhat poorly-	0-8	.24	.28	3	8	0
	8-18	.20	.32			
	18-40	.20	.32			
	40-63	.20	.32			
296623						
Rock outcrop.						
Arnot----------	0-4	.24	.28	2	5	56
	4-17	.17	.24			
	17-24	---	---			
296625						
Swartswood----------	0-28	.20	.28	3	6	48
	28-60	.20	.28			
296628						
Swartswood----------	0-28	.17	.28	3	8	0
	28-60	.20	.28			
296630						
Volusia----------	0-8	.24	.37	3	5	56
	8-15	.24	.28			
	15-70	.24	.28			
	70-80	.24	.32			
296632						
Volusia----------	0-8	.24	.37	3	8	0
	8-15	.24	.28			
	15-70	.24	.28			
	70-80	.24	.32			
296633						
Volusia----------	0-8	.24	.37	3	8	0
	8-15	.24	.28			
	15-70	.24	.28			
	70-80	.24	.32			
296634						
Wellsboro----------	0-8	.24	.32	3	6	48
	8-17	.28	.43			
	17-21	.28	.43			
	21-60	.28	.32			
	60-80	.28	.32			
296635						
Wellsboro----------	0-8	.24	.32	3	6	48
	8-17	.28	.43			
	17-21	.28	.43			
	21-60	.28	.32			
	60-80	.28	.32			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
296636						
Wellsboro	0-8	.24	.32			
	8-17	.28	.43			
	17-21	.28	.43			
	21-60	.28	.32			
	60-80	.28	.32			
296637						
Wellsboro	0-8	.24	.32	3	8	0
	8-17	.28	.43			
	17-21	.28	.43			
	21-60	.28	.32			
	60-80	.28	.32			
296638						
Wellsboro	0-8	.24	.32	3	8	0
	8-17	.28	.43			
	17-21	.28	.43			
	21-60	.28	.32			
	60-80	.28	.32			
296639						
Wellsboro	0-8	.24	.32	3	8	0
	8-17	.28	.32			
	17-21	.28	.32			
	21-60	.28	.32			
	60-80	.28	.43			
Mardin	0-8	.24	.32	3	8	0
	8-17	.24	.28			
	17-21	.24	.28			
	21-60	.24	.32			
	60-80	.24	.32			
296640						
Wyoming	0-7	.17	.20	3	6	48
	7-25	.17	.24			
	25-60	.17	.24			
296641						
Wyoming	0-7	.17	.20	3	6	48
	7-25	.17	.24			
	25-60	.17	.24			
296642						
Wyoming	0-7	.17	.20	3	6	48
	7-25	.17	.24			
	25-60	.17	.24			
296643						
Wyoming	0-7	.17	.20	3	6	48
	7-25	.17	.24			
	25-60	.17	.24			
296644.						
Water						
297185						
Edgemere	0-2	.10	.10	3	8	0
	2-5	.20	.43			
	5-24	.24	.37			
	24-66	.24	.55			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
297185						
Shohola	0-3	.20	.37	3	8	0
	3-24	.24	.37			
	24-72	.24	.28			
297186						
Edgemere	0-2	.10	.10	3	8	0
	2-5	.20	.43			
	5-24	.24	.37			
	24-66	.24	.55			
297188						
Manlius	0-5	.20	.32	2	8	0
	5-24	.20	.28			
	24-30	.20	.32			
	30-40	---	---			
Arnot	0-3	.24	.28	1	8	0
	3-14	.17	.24			
	14-24	---	---			
Rock outcrop.						
297189						
Manlius	0-5	.20	.32	2	8	0
	5-24	.20	.28			
	24-30	.20	.32			
	30-40	---	---			
Arnot	0-3	.24	.28	1	8	0
	3-14	.17	.24			
	14-24	---	---			
Rock outcrop.						
297190						
Braceville	0-11	.32	.37	4	3	86
	11-27	.32	.43			
	27-48	.28	.43			
	48-70	.20	.28			
297191						
Wyalusing	0-6	.37	.37	5	8	0
	6-31	.28	.32			
	31-70	.10	.17			
297192						
Pope	0-6	.28	.28	5	3	86
	6-33	.28	.28			
	33-70	.28	.20			
297193						
Paupack	0-3	.05	.05	2	8	0
	3-26	.05	.05			
	26-36	.10	.24			
	36-70	.17	.28			
297194						
Morris	0-8	.24	.32	3	8	0
	8-17	.24	.28			
	17-70	.24	.28			
	70-80	.24	.28			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
297196						
Freetown	0-6	.05	.05	3	8	0
	6-72	.05	.05			
297199						
Oquaga	0-2	.20	.37	2	8	0
	2-26	.20	.28			
	26-32	.20	.28			
	32-42	---	---			
297200						
Oquaga	0-2	.20	.37	2	8	0
	2-26	.20	.28			
	26-32	.20	.28			
	32-42	---	---			
297201						
Oquaga	0-2	.20	.37	2	8	0
	2-26	.20	.28			
	26-32	.20	.28			
	32-42	---	---			
297202						
Oquaga	0-2	.20	.37	2	8	0
	2-26	.20	.28			
	26-32	.20	.28			
	32-42	---	---			
Arnot	0-3	.24	.28	1	8	0
	3-14	.17	.24			
	14-24	---	---			
Rock outcrop.						
297203						
Delaware	0-14	.28	.28	4	3	86
	14-48	.28	.28			
	48-72	.28	.28			
297204						
Delaware	0-14	.28	.28	4	3	86
	14-48	.28	.28			
	48-72	.28	.28			
297205						
Delaware	0-14	.28	.28	4	3	86
	14-48	.28	.28			
	48-72	.28	.28			
297207						
Wurtsboro	0-7	.28	.32	4	8	0
	7-22	.28	.32			
	22-60	.28	.32			
297208						
Wurtsboro	0-7	.28	.32	4	8	0
	7-22	.28	.32			
	22-60	.28	.32			
297209						
Philo	0-6	.37	.37	4	5	56
	6-36	.32	.32			
	36-70	.10	.24			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
297210						
Barbour	0-10	.32	.32	3	5	56
	10-38	.32	.37			
	38-72	.17	.20			
297211						
Wellsboro	0-8	.24	.32	3	8	0
	8-17	.28	.32			
	17-21	.28	.32			
	21-60	.28	.32			
	60-80	.28	.32			
297212						
Wellsboro	0-8	.24	.32	3	8	0
	8-17	.28	.32			
	17-21	.28	.32			
	21-60	.28	.32			
	60-80	.28	.32			
297213						
Wellsboro	0-8	.24	.32	3	8	0
	8-17	.28	.32			
	17-21	.28	.32			
	21-60	.28	.32			
	60-80	.28	.32			
297215						
Wellsboro	0-8	.28	.32	3	8	0
	8-17	.28	.43			
	17-21	.28	.43			
	21-60	.28	.32			
	60-80	.28	.32			
297216						
Wurtsboro	0-4	.24	.32	4	8	0
	4-22	.28	.32			
	22-70	.28	.32			
297217						
Wurtsboro	0-4	.24	.32	4	8	0
	4-22	.28	.32			
	22-70	.28	.32			
297218						
Wurtsboro	0-4	.24	.32	4	8	0
	4-22	.28	.32			
	22-70	.28	.32			
297221						
Lackawanna	0-7	.24	.32	3	6	48
	7-29	.20	.24			
	29-75	.20	.24			
297223						
Lackawanna	0-7	.24	.32	3	7	38
	7-29	.20	.24			
	29-75	.20	.24			
297224						
Swartswood	0-4	.17	.28	4	8	0
	4-32	.20	.24			
	32-70	.20	.28			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
297225						
Swartswood	0-4	.17	.28	4	8	0
	4-32	.20	.24			
	32-70	.20	.28			
297226						
Swartswood	0-4	.17	.28	4	8	0
	4-32	.20	.24			
	32-70	.20	.28			
297227						
Arnot	0-3	.17	.28	1	8	0
	3-10	.17	.24			
	10-14	.17	.24			
	14-24	---	---			
297228						
Arnot	0-3	.17	.28	1	8	0
	3-10	.17	.24			
	10-14	.17	.24			
	14-24	---	---			
297229						
Wyoming	0-3	.17	.20	5	6	48
	3-33	.17	.24			
	33-72	.17	.24			
297230						
Wyoming	0-3	.17	.20	5	6	48
	3-33	.17	.24			
	33-72	.17	.24			
297231						
Wyoming	0-3	.17	.20	5	6	48
	3-33	.17	.24			
	33-72	.17	.24			
297236						
Suncook	0-10	.17	.17	5	2	134
	10-70	.10	.15			
297239						
Mardin	0-8	.24	.32	3	8	0
	8-17	.24	.28			
	17-21	.24	.28			
	21-30	.24	.32			
	30-60	.24	.32			
	60-80	.24	.32			
297240						
Mardin	0-8	.24	.32	3	8	0
	8-17	.24	.28			
	17-21	.24	.28			
	21-30	.24	.32			
	30-60	.24	.32			
	60-80	.24	.32			
297241						
Unadilla	0-13	.49	.49	3	5	56
	13-49	.64	.64			
	49-80	.64	.64			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
297242						
Shohola	0-3	.20	.37	3	8	0
	3-24	.24	.37			
	24-72	.24	.28			
Edgemere	0-2	.10	.10	3	8	0
	2-5	.20	.43			
	5-24	.24	.37			
	24-66	.24	.55			
297243						
Shohola	0-3	.20	.37	3	8	0
	3-24	.24	.37			
	24-72	.24	.28			
Edgemere	0-2	.10	.10	3	8	0
	2-5	.20	.43			
	5-24	.24	.37			
	24-66	.24	.55			
297244						
Lordstown	0-3	.20	.28	2	8	0
	3-28	.28	.32			
	28-30	.28	.37			
	30-40	---	---			
Swartswood	0-4	.17	.28	4	8	0
	4-32	.20	.24			
	32-70	.20	.28			
297245						
Lordstown	0-3	.20	.28	2	8	0
	3-28	.28	.32			
	28-30	.28	.37			
	30-40	---	---			
Swartswood	0-4	.17	.28	4	8	0
	4-32	.20	.24			
	32-70	.20	.28			
297246						
Lordstown	0-3	.20	.28	2	8	0
	3-28	.28	.32			
	28-30	.28	.37			
	30-40	---	---			
Swartswood	0-4	.17	.28	4	8	0
	4-32	.20	.24			
	32-70	.20	.28			
297247						
Chenango	0-10	.28	.43	3	5	56
	10-29	.17	.28			
	29-70	.10	.20			
297248						
Chenango	0-10	.28	.43	3	5	56
	10-29	.17	.28			
	29-70	.10	.20			

Table 16.--Erosion Properties--Continued

Map unit symbol and soil name	Depth	Erosion factors			Wind erodibility group	Wind erodibility index
		Kw	Kf	T		
	In					
297249						
Chenango	0-10	.28	.43	3	5	56
	10-29	.17	.28			
	29-70	.10	.20			
297250						
Lordstown	0-3	.20	.28	2	8	0
	3-28	.28	.32			
	28-30	.28	.37			
	30-40	---	---			
297251						
Lordstown	0-3	.20	.28	2	8	0
	3-28	.28	.32			
	28-30	.28	.37			
	30-40	---	---			
297253						
Craigsville	0-5	.17	.28	5	8	0
	5-27	.17	.28			
	27-77	.17	.28			
Wyoming	0-3	.17	.20	5	8	0
	3-33	.17	.24			
	33-72	.17	.24			
297254						
Pits, shale, and gravel.						
309440						
Edgemere	0-2	.10	.10	3	8	0
	2-5	.20	.43			
	5-24	.24	.37			
	24-66	.24	.55			
Shohola	0-3	.20	.37	3	8	0
	3-24	.24	.37			
	24-72	.24	.28			
319863						
Oquaga	0-2	.20	.37	2	8	0
	2-26	.20	.28			
	26-32	.20	.28			
	32-42	---	---			
Arnot	0-3	.24	.28	1	8	0
	3-14	.17	.24			
	14-24	---	---			
Rock outcrop.						
319865						
Wellsboro	0-8	.24	.32	3	8	0
	8-17	.28	.32			
	17-21	.28	.32			
	21-60	.28	.32			
	60-80	.28	.32			
741008						
Oquaga	0-2	.20	.37	2	8	0
	2-26	.20	.28			
	26-32	.20	.28			
	32-42	---	---			

Table 17.--Total Soil Carbon

[This table displays soil organic carbon (SOC) and soil inorganic carbon (SIC) in kilograms per square meter to a depth of 2 meters or to the representative top depth of any kind of bedrock or any cemented soil horizon. SOC and SIC are reported on a volumetric whole-soil basis, corrected for representative rock fragments indicated in the database. SOC is converted from soil organic matter of the fraction of the soil less than 2 millimeters in diameter. If soil organic matter is indicated in the database as null, SOC is assumed to be zero. SIC is converted from the content of calcium carbonate by horizon in the fraction of the soil less than 2 millimeters in diameter. If the content of calcium carbonate is indicated in the database as null, SIC is assumed to be zero. A weighted average of all horizons is used in the calculations. Only major components of a map unit are displayed]

Map unit symbol, component name, and component percent	SOC	SIC
	kg/m^2	kg/m^2
290457		
Barbour (85 percent)	9	0
290461		
Bath (80 percent)	11	0
290465		
Cadosia (75 percent)	4	0
290466		
Cadosia (75 percent)	4	0
290468		
Chenango (85 percent)	10	0
290483		
Fluvaquents (45 percent)	11	17
Udifluvents (35 percent)	4	0
290484		
Halcott (25 percent)	3	0
Mongaup (25 percent)	5	0
Vly (25 percent)	7	0
290485		
Halcott (25 percent)	3	0
Mongaup (25 percent)	5	0
Vly (25 percent)	7	0
290487		
Lackawanna (80 percent)	7	0
290488		
Lackawanna (80 percent)	7	0
290489		
Lackawanna (80 percent)	7	0
290490		
Lackawanna (80 percent)	7	0

Table 17.--Total Soil Carbon--Continued

Map unit symbol, component name, and component percent	SOC	SIC
	kg/m^2	kg/m^2
290491		
Lackawanna (50 percent)	7	0
Bath (30 percent)	11	0
290492		
Lackawanna (50 percent)	7	0
Bath (30 percent)	11	0
290493		
Lackawanna (50 percent)	7	0
Bath (30 percent)	11	0
290506		
Lordstown (80 percent)	5	0
290507		
Lordstown (80 percent)	5	0
290509		
Lordstown (80 percent)	5	0
290510		
Maplecrest (80 percent)	8	0
290511		
Maplecrest (80 percent)	8	0
290512		
Maplecrest (80 percent)	8	0
290514		
Mardin (80 percent)	10	0
290515		
Mardin (80 percent)	9	0
290519		
Mongaup (80 percent)	5	0
290522		
Morris (85 percent)	9	0
290523		
Morris (85 percent)	9	0
290525		
Morris (50 percent)	9	0
Volusia (30 percent)	11	0
290526		
Norchip (80 percent)	11	0
290535		
Oquaga (80 percent)	4	0
290536		
Oquaga (80 percent)	4	0
290539		
Oquaga (80 percent)	4	0

Table 17.--Total Soil Carbon--Continued

Map unit symbol, component name, and component percent	SOC	SIC
	kg/m²	kg/m²
290540		
Oquaga (25 percent)	4	0
Lordstown (25 percent)	5	0
Arnot (25 percent)	4	0
290541		
Oquaga (25 percent)	4	0
Lordstown (25 percent)	5	0
Arnot (25 percent)	4	0
290542		
Oquaga (25 percent)	4	0
Lordstown (25 percent)	5	0
Arnot (25 percent)	4	0
290544		
Pits, gravel (85 percent)	0	0
290546		
Raypol (80 percent)	16	0
290547		
Red Hook (80 percent)	19	0
290548		
Riverhead (85 percent)	10	0
290549		
Riverhead (85 percent)	10	0
290555		
Torull (40 percent)	9	0
Gretor (40 percent)	8	0
290556		
Tunkhannock (85 percent)	4	0
290562		
Tunkhannock (50 percent)	4	0
Chenango (30 percent)	10	0
290563		
Udorthents (80 percent)	0	0
290565		
Unadilla (80 percent)	18	0
290567		
Valois (80 percent)	9	2
290568		
Valois (80 percent)	8	1
290569		
Valois (80 percent)	8	1

Table 17.--Total Soil Carbon--Continued

Map unit symbol, component name, and component percent	SOC	SIC
	kg/m^2	kg/m^2
290570		
Valois (80 percent)	8	1
290576		
Volusia (85 percent)	11	0
290578		
Wellsboro (80 percent)	8	0
290579		
Wellsboro (80 percent)	8	0
290581		
Wellsboro (50 percent)	8	0
Mardin (30 percent)	9	0
290582		
Wenonah (85 percent)	23	0
290592		
Carlisle (45 percent)	161	0
Palms (40 percent)	121	13
293892		
Alden, extremely stony (75 percent)	18	1
293895		
Arnot (50 percent)	4	0
Lordstown (35 percent)	13	0
293896		
Arnot (60 percent)	3	0
Lordstown (30 percent)	13	0
293897		
Arnot (65 percent)	3	0
Lordstown (25 percent)	13	0
293921		
Erie, extremely stony (80 percent)	12	0
293929		
Hoosic (80 percent)	7	0
293930		
Hoosic (80 percent)	6	0
293931		
Hoosic (80 percent)	7	0
293932		
Lordstown (80 percent)	14	0
293939		
Middlebury (80 percent)	18	0
293943		
Otisville (80 percent)	5	0

Table 17.--Total Soil Carbon--Continued

Map unit symbol, component name, and component percent	SOC	SIC
	kg/m^2	kg/m^2
293944		
Otisville (80 percent)	5	0
293945		
Otisville (80 percent)	5	0
293946		
Otisville (40 percent)	4	0
Hoosic (40 percent)	5	0
293949		
Pits, gravel (75 percent)	0	0
293961		
Rock outcrop (50 percent)	0	0
Arnot (35 percent)	4	0
293962		
Rock outcrop (50 percent)	0	0
Arnot (40 percent)	4	0
293963		
Rock outcrop (60 percent)	0	0
Arnot (30 percent)	4	0
293975		
Suncook (80 percent)	7	0
293979		
Swartswood, very stony (40 percent)	9	0
Mardin (40 percent)	11	0
293980		
Swartswood, very stony (40 percent)	8	0
Mardin (40 percent)	11	0
293981		
Swartswood, very stony (40 percent)	8	0
Mardin (35 percent)	10	0
293983		
Udifluvents, frequently flooded (45 percent)	7	0
Fluvaquents (30 percent)	12	0
295043		
Alden (80 percent)	24	0
295044		
Arnot (40 percent)	6	0
Lordstown (40 percent)	12	0
295045		
Arnot (40 percent)	6	0
Lordstown (40 percent)	5	0

Table 17.--Total Soil Carbon--Continued

Map unit symbol, component name, and component percent	SOC	SIC
	kg/m²	kg/m²
295046		
Arnot (45 percent)	6	0
Oquaga (40 percent)	10	0
295047		
Arnot (50 percent)	6	0
Oquaga (35 percent)	10	0
295048		
Arnot (60 percent)	6	0
Rock outcrop (25 percent)	0	0
295049		
Arnot (55 percent)	6	0
Rock outcrop (30 percent)	0	0
295050		
Arnot (45 percent)	6	0
Rock outcrop (40 percent)	0	0
295051		
Barbour (85 percent)	10	0
295052		
Bash (85 percent)	12	0
295053		
Carlisle (85 percent)	134	0
295054		
Carlisle, ponded (25 percent)	134	0
Palms, ponded (25 percent)	87	18
Alden, ponded (25 percent)	24	0
295055		
Chenango (85 percent)	6	0
295056		
Chenango (85 percent)	6	0
295057		
Chenango (85 percent)	6	0
295059		
Cheshire, stony (85 percent)	9	0
295060		
Cheshire, stony (85 percent)	9	0
295061		
Cheshire, stony (85 percent)	9	0
295062		
Cheshire, stony (85 percent)	9	0
295063		
Cheshire, stony (85 percent)	9	0

Table 17.--Total Soil Carbon--Continued

Map unit symbol, component name, and component percent	SOC	SIC
	kg/m^2	kg/m^2
295069		
Fluvaquents (45 percent)	12	0
Udifluvents, frequently flooded (40 percent)	6	0
295074		
Lackawanna (80 percent)	14	0
295075		
Lackawanna (85 percent)	14	0
295076		
Lackawanna (85 percent)	14	0
295082		
Lordstown, stony (85 percent)	13	0
295083		
Lordstown, very stony (55 percent)	13	0
Arnot, very stony (25 percent)	6	0
295092		
Morris (85 percent)	13	0
295093		
Morris (85 percent)	13	0
295094		
Morris (85 percent)	13	0
295095		
Neversink (80 percent)	18	0
295101		
Oquaga (85 percent)	10	0
295102		
Oquaga (50 percent)	10	0
Arnot (35 percent)	6	0
295103		
Oquaga (50 percent)	10	0
Arnot (35 percent)	6	0
295105		
Otisville (85 percent)	5	0
295106		
Otisville (85 percent)	5	0
295107		
Otisville (85 percent)	5	0
295109		
Palms (85 percent)	87	17
295110		
Philo (85 percent)	13	0
295111		
Pits, gravel (80 percent)	0	0

Table 17.--Total Soil Carbon--Continued

Map unit symbol, component name, and component percent	SOC	SIC
	kg/m^2	kg/m^2
295112		
Pits, quarry (80 percent)	0	0
295113		
Pompton (85 percent)	13	0
295114		
Pompton (85 percent)	13	0
295115		
Pope, occasionally flooded (85 percent)	11	0
295116		
Pope, rarely flooded (85 percent)	11	0
295117		
Raynham, poorly drained (50 percent)	22	5
Raynham, somewhat poorly drained (30 percent)	22	5
295118		
Red Hook (80 percent)	17	0
295119		
Riverhead (85 percent)	8	0
295120		
Riverhead (85 percent)	8	0
295121		
Riverhead (85 percent)	8	0
295122		
Scio (80 percent)	16	1
295123		
Scriba, stony (80 percent)	19	0
295124		
Scriba, stony (75 percent)	19	0
295125		
Scriba, extremely stony (40 percent)	19	0
Morris, extremely stony (40 percent)	12	0
295126		
Suncook (80 percent)	9	0
295129		
Swartswood (85 percent)	8	0
295130		
Swartswood (85 percent)	8	0
295131		
Swartswood (85 percent)	8	0
295132		
Swartswood, stony (40 percent)	12	0
Lackawanna, stony (40 percent)	14	0

Table 17.--Total Soil Carbon--Continued

Map unit symbol, component name, and component percent	SOC	SIC
	kg/m^2	kg/m^2
295133		
Swartswood, very stony (40 percent)	13	0
Lackawanna, very stony (40 percent)	14	0
295134		
Swartswood, very stony (40 percent)	13	0
Lackawanna, very stony (40 percent)	14	0
295136		
Tuller, somewhat poorly drained (40 percent)	10	0
Tuller, poorly drained (20 percent)	10	0
Rock outcrop (20 percent)	0	0
295137		
Tunkhannock (85 percent)	7	0
295138		
Tunkhannock (85 percent)	7	0
295139		
Tunkhannock (85 percent)	6	0
295140		
Tunkhannock (85 percent)	7	0
295141		
Tunkhannock (45 percent)	7	0
Otisville (40 percent)	5	0
295142		
Tunkhannock (45 percent)	7	0
Otisville (40 percent)	5	0
295143		
Udorthents (75 percent)	0	0
295144		
Unadilla (85 percent)	13	0
295145		
Unadilla (85 percent)	13	0
295146		
Valois (80 percent)	10	1
295147		
Valois (80 percent)	10	1
295148		
Valois (80 percent)	10	1
295149		
Valois (80 percent)	10	1
295150		
Valois (80 percent)	10	1

Table 17.--Total Soil Carbon--Continued

Map unit symbol, component name, and component percent	SOC	SIC
	kg/m²	kg/m²
295153		
Wayland (85 percent)	19	2
295154		
Wellsboro (85 percent)	10	0
295155		
Wellsboro (85 percent)	10	0
295156		
Wellsboro (85 percent)	10	0
295157		
Wellsboro, extremely stony (40 percent)	10	0
Wurtsboro, extremely stony (40 percent)	17	0
295162		
Wurtsboro, stony (85 percent)	17	0
295163		
Wurtsboro, stony (85 percent)	17	0
295164		
Wurtsboro, stony (85 percent)	17	0
296588		
Arnot (90 percent)	3	0
296589		
Arnot (90 percent)	3	0
296590		
Arnot (95 percent)	3	0
296591		
Barbour (70 percent)	8	0
296592		
Basher (87 percent)	10	0
296593		
Fluvents (70 percent)	3	0
Fluvaquents (20 percent)	3	0
296594		
Holly (95 percent)	11	0
296595		
Linden (85 percent)	7	0
296596		
Lordstown (94 percent)	4	0
296599		
Lordstown (80 percent)	3	0
296600		
Lordstown (90 percent)	3	0

Table 17.--Total Soil Carbon--Continued

Map unit symbol, component name, and component percent	SOC	SIC
	kg/m²	kg/m²
296601		
Medihemists (60 percent)	119	0
Medifibrists (30 percent)	119	0
296602		
Mardin (90 percent)	10	0
296603		
Mardin (90 percent)	10	0
296604		
Mardin (90 percent)	10	0
296605		
Mardin (90 percent)	10	0
296606		
Mardin (85 percent)	10	0
296608		
Morris (75 percent)	8	0
296609		
Morris (80 percent)	8	0
296610		
Morris (75 percent)	7	0
296611		
Morris (90 percent)	7	0
296613		
Norwich (63 percent)	11	0
Chippewa (33 percent)	12	0
296614		
Oquaga (85 percent)	3	0
296615		
Oquaga (85 percent)	3	0
296616		
Oquaga (85 percent)	3	0
296617		
Oquaga (85 percent)	3	0
296618		
Oquaga (85 percent)	3	0
296619		
Oquaga (45 percent)	3	0
Lordstown (20 percent)	3	0
296621		
Quarries (100 percent)	0	0
296622		
Rexford, poorly drained (45 percent)	9	0
Rexford, somewhat poorly drained (40 percent)	8	0

Table 17.--Total Soil Carbon--Continued

Map unit symbol, component name, and component percent	SOC	SIC
	kg/m^2	kg/m^2
296623		
Rock outcrop (70 percent)	0	0
Arnot (20 percent)	3	0
296625		
Swartswood (90 percent)	10	0
296628		
Swartswood (90 percent)	9	0
296630		
Volusia (75 percent)	7	0
296632		
Volusia (75 percent)	6	0
296633		
Volusia (90 percent)	7	0
296634		
Wellsboro (80 percent)	6	0
296635		
Wellsboro (85 percent)	5	0
296636		
Wellsboro (85 percent)	5	0
296637		
Wellsboro (80 percent)	6	0
296638		
Wellsboro (85 percent)	5	0
296639		
Wellsboro (70 percent)	6	0
Mardin (20 percent)	8	0
296640		
Wyoming (85 percent)	4	0
296641		
Wyoming (85 percent)	4	0
296642		
Wyoming (85 percent)	4	0
296643		
Wyoming (90 percent)	4	0
296644		
Water (100 percent)	0	0
297185		
Edgemere (42 percent)	9	0
Shohola (42 percent)	4	0
297186		
Edgemere (75 percent)	9	0

Table 17.--Total Soil Carbon--Continued

Map unit symbol, component name, and component percent	SOC	SIC
	kg/m²	kg/m²
297188		
Manlius (40 percent)	4	0
Arnot (35 percent)	3	0
Rock outcrop (15 percent)	0	0
297189		
Manlius (40 percent)	6	0
Arnot (35 percent)	1	0
Rock outcrop (15 percent)	0	0
297190		
Braceville (82 percent)	14	0
297191		
Wyalusing (85 percent)	6	0
297192		
Pope (95 percent)	8	0
297193		
Paupack (90 percent)	90	0
297194		
Morris (82 percent)	8	0
297196		
Freetown (94 percent)	170	0
297199		
Oquaga (78 percent)	5	0
297200		
Oquaga (78 percent)	5	0
297201		
Oquaga (75 percent)	5	0
297202		
Oquaga (40 percent)	4	0
Arnot (30 percent)	2	0
Rock outcrop (20 percent)	0	0
297203		
Delaware (93 percent)	11	0
297204		
Delaware (82 percent)	11	0
297205		
Delaware (80 percent)	11	0
297207		
Wurtsboro (92 percent)	4	0
297208		
Wurtsboro (92 percent)	4	0

Table 17.--Total Soil Carbon--Continued

Map unit symbol, component name, and component percent	SOC	SIC
	kg/m^2	kg/m^2
297209		
Philo (85 percent)	6	0
297210		
Barbour (85 percent)	7	0
297211		
Wellsboro (89 percent)	9	0
297212		
Wellsboro (89 percent)	9	0
297213		
Wellsboro (82 percent)	9	0
297215		
Wellsboro (91 percent)	7	0
297216		
Wurtsboro (92 percent)	4	0
297217		
Wurtsboro (88 percent)	4	0
297218		
Wurtsboro (88 percent)	4	0
297221		
Lackawanna (81 percent)	7	0
297223		
Lackawanna (75 percent)	7	0
297224		
Swartswood (95 percent)	7	0
297225		
Swartswood (95 percent)	7	0
297226		
Swartswood (90 percent)	7	0
297227		
Arnot (88 percent)	2	0
297228		
Arnot (85 percent)	3	0
297229		
Wyoming (90 percent)	2	0
297230		
Wyoming (90 percent)	2	0
297231		
Wyoming (90 percent)	2	0
297236		
Suncook (91 percent)	7	0
297239		
Mardin (85 percent)	9	0

Table 17.--Total Soil Carbon--Continued

Map unit symbol, component name, and component percent	SOC	SIC
	kg/m^2	kg/m^2
297240		
Mardin (85 percent)	9	0
297241		
Unadilla (90 percent)	19	0
297242		
Shohola (62 percent)	4	0
Edgemere (29 percent)	9	0
297243		
Shohola (62 percent)	4	0
Edgemere (29 percent)	9	0
297244		
Lordstown (40 percent)	5	0
Swartswood (35 percent)	7	0
297245		
Lordstown (40 percent)	5	0
Swartswood (35 percent)	7	0
297246		
Lordstown (40 percent)	5	0
Swartswood (35 percent)	7	0
297247		
Chenango (86 percent)	8	0
297248		
Chenango (85 percent)	8	0
297249		
Chenango (90 percent)	8	0
297250		
Lordstown (94 percent)	4	0
297251		
Lordstown (86 percent)	5	0
297253		
Craigsville (50 percent)	3	0
Wyoming (40 percent)	3	0
297254		
Pits, shale (40 percent)	0	0
Pits, gravel (40 percent)	0	0
309440		
Edgemere (42 percent)	9	0
Shohola (42 percent)	4	0

Table 17.--Total Soil Carbon--Continued

Map unit symbol, component name, and component percent	SOC	SIC
	kg/m²	*kg/m²*
319863		
Oquaga (40 percent)	4	0
Arnot (30 percent)	2	0
Rock outcrop (20 percent)	0	0
319865		
Wellsboro (89 percent)	9	0
741008		
Oquaga (78 percent)	5	0

Table 18.--Chemical Soil Properties

[Absence of an entry indicates that data were not estimated]

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
290457					
Barbour	0-6	---	1.5-4.9	4.5-6.0	0
	6-18	---	0.0-7.9	4.5-6.0	0
	18-26	---	1.6-7.9	4.5-6.0	0
	26-72	0.0-8.0	---	4.5-6.5	0
290461					
Bath	0-9	---	0.0-4.3	4.5-6.0	0
	9-20	---	0.0-7.9	4.5-6.0	0
	20-26	0.0-9.1	---	4.5-6.5	0
	26-72	0.0-9.1	---	4.5-6.5	0
290465					
Cadosia	0-6	---	1.4-7.8	4.5-6.0	0
	6-23	---	0.0-13.4	4.5-6.0	0
	23-32	---	1.9-13.4	4.5-6.0	0
	32-58	---	0.0-13.4	4.5-6.0	0
	58-72	---	0.0-13.4	4.5-6.0	0
290466					
Cadosia	0-6	---	1.4-7.8	4.5-6.0	0
	6-23	---	0.0-13.4	4.5-6.0	0
	23-32	---	1.9-13.4	4.5-6.0	0
	32-58	---	0.0-13.4	4.5-6.0	0
	58-72	---	0.0-13.4	4.5-6.0	0
290468					
Chenango	0-10	---	0.1-15.1	4.5-5.5	0
	10-21	---	0.1-14.1	4.5-6.0	0
	21-25	---	0.1-14.1	4.5-6.0	0
	25-72	0.0-12.8	---	5.1-7.8	0
290483					
Fluvaquents	0-8	0.0-21.6	---	4.5-7.3	0-5
	8-72	0.0-26.1	---	4.5-7.3	0-15
Udifluvents	0-8	4.2-20.2	---	4.5-7.3	0
	8-72	0.0-17.5	---	4.5-7.3	0
290484					
Halcott	0-3	---	1.4-7.8	4.5-5.5	0
	3-11	---	0.0-13.4	4.5-5.5	0
	11-18	---	0.0-13.4	4.5-5.5	0
	18-28	---	---	---	---
Mongaup	0-5	---	1.4-4.3	3.6-5.5	0
	5-12	---	0.0-7.9	3.6-5.5	0
	12-20	---	0.0-7.9	3.6-5.5	0
	20-28	---	0.0-7.9	3.6-5.5	0
	28-38	---	---	---	---
Vly	0-6	---	0.1-15.1	4.5-5.5	0
	6-18	---	0.1-14.5	4.5-5.5	0
	18-24	---	0.1-14.5	4.5-5.5	0
	24-31	---	0.1-14.5	4.5-5.5	0
	31-41	---	---	---	---

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
290485					
Halcott	0-3	---	1.4-7.8	4.5-5.5	0
	3-11	---	0.0-13.4	4.5-5.5	0
	11-18	---	0.0-13.4	4.5-5.5	0
	18-28	---	---	---	---
Mongaup	0-5	---	1.4-4.3	3.6-5.5	0
	5-12	---	0.0-7.9	3.6-5.5	0
	12-20	---	0.0-7.9	3.6-5.5	0
	20-28	---	0.0-7.9	3.6-5.5	0
	28-38	---	---	---	---
Vly	0-6	---	0.1-15.1	4.5-5.5	0
	6-18	---	0.1-14.5	4.5-5.5	0
	18-24	---	0.1-14.5	4.5-5.5	0
	24-31	---	0.1-14.5	4.5-5.5	0
	31-41	---	---	---	---
290487					
Lackawanna	0-7	---	0.0-4.3	4.5-5.5	0
	7-18	---	0.0-7.9	4.5-5.5	0
	18-28	---	0.0-7.9	4.5-5.5	0
	28-48	---	0.0-7.9	4.5-6.0	0
	48-72	---	0.0-7.9	4.5-6.0	0
290488					
Lackawanna	0-7	---	0.0-4.3	4.5-5.5	0
	7-18	---	0.0-7.9	4.5-5.5	0
	18-28	---	0.0-7.9	4.5-5.5	0
	28-48	---	0.0-7.9	4.5-6.0	0
	48-72	---	0.0-7.9	4.5-6.0	0
290489					
Lackawanna	0-7	---	0.0-4.3	4.5-5.5	0
	7-18	---	0.0-7.9	4.5-5.5	0
	18-28	---	0.0-7.9	4.5-5.5	0
	28-48	---	0.0-7.9	4.5-6.0	0
	48-72	---	0.0-7.9	4.5-6.0	0
290490					
Lackawanna	0-7	---	0.0-4.3	4.5-5.5	0
	7-18	---	0.0-7.9	4.5-5.5	0
	18-28	---	0.0-7.9	4.5-5.5	0
	28-48	---	0.0-7.9	4.5-6.0	0
	48-72	---	0.0-7.9	4.5-6.0	0
290491					
Lackawanna	0-7	---	0.0-4.3	4.5-5.5	0
	7-18	---	0.0-7.9	4.5-5.5	0
	18-28	---	0.0-7.9	4.5-5.5	0
	28-48	---	0.0-7.9	4.5-6.0	0
	48-72	---	0.0-7.9	4.5-6.0	0
Bath	0-9	---	0.0-4.3	4.5-6.0	0
	9-20	---	0.0-7.9	4.5-6.0	0
	20-26	0.0-9.1	---	4.5-6.5	0
	26-72	0.0-9.1	---	4.5-6.5	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
290492					
Lackawanna	0-7	---	0.0-4.3	4.5-5.5	0
	7-18	---	0.0-7.9	4.5-5.5	0
	18-28	---	0.0-7.9	4.5-5.5	0
	28-48	---	0.0-7.9	4.5-6.0	0
	48-72	---	0.0-7.9	4.5-6.0	0
Bath	0-9	---	0.0-4.3	4.5-6.0	0
	9-20	---	0.0-7.9	4.5-6.0	0
	20-26	0.0-9.1	---	4.5-6.5	0
	26-72	0.0-9.1	---	4.5-6.5	0
290493					
Lackawanna	0-7	---	0.0-4.3	4.5-5.5	0
	7-18	---	0.0-7.9	4.5-5.5	0
	18-28	---	0.0-7.9	4.5-5.5	0
	28-48	---	0.0-7.9	4.5-6.0	0
	48-72	---	0.0-7.9	4.5-6.0	0
Bath	0-9	---	0.0-4.3	4.5-6.0	0
	9-20	---	0.0-7.9	4.5-6.0	0
	20-26	0.0-9.1	---	4.5-6.5	0
	26-72	0.0-9.1	---	4.5-6.5	0
290506					
Lordstown	0-3	0.0-9.4	---	4.5-6.5	0
	3-6	---	0.0-5.3	4.5-6.0	0
	6-19	---	0.0-5.3	4.5-6.0	0
	19-27	---	1.8-5.3	4.5-6.0	0
	27-32	3.6-9.0	---	5.1-6.0	0
	32-42	---	---	---	---
290507					
Lordstown	0-3	0.0-9.4	---	4.5-6.5	0
	3-6	---	0.0-5.3	4.5-6.0	0
	6-19	---	0.0-5.3	4.5-6.0	0
	19-27	---	1.8-5.3	4.5-6.0	0
	27-32	3.6-9.0	---	5.1-6.0	0
	32-42	---	---	---	---
290509					
Lordstown	0-3	0.0-9.4	---	4.5-6.5	0
	3-6	---	0.0-5.3	4.5-6.0	0
	6-19	---	0.0-5.3	4.5-6.0	0
	19-27	---	1.8-5.3	4.5-6.0	0
	27-32	3.6-9.0	---	5.1-6.0	0
	32-42	---	---	---	---
290510					
Maplecrest	0-3	---	0.1-9.9	4.5-6.0	0
	3-6	---	0.1-9.8	4.5-6.0	0
	6-18	---	0.1-9.3	5.1-6.0	0
	18-36	0.0-14.3	---	5.1-6.5	0
	36-46	5.5-14.3	---	5.1-6.0	0
	46-72	0.0-14.3	---	5.1-6.0	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
290511					
Maplecrest	0-3	---	0.1-9.9	4.5-6.0	0
	3-6	---	0.1-9.8	4.5-6.0	0
	6-18	---	0.1-9.3	5.1-6.0	0
	18-36	0.0-14.3	---	5.1-6.5	0
	36-46	5.5-14.3	---	5.1-6.0	0
	46-72	0.0-14.3	---	5.1-6.0	0
290512					
Maplecrest	0-3	---	0.1-9.9	4.5-6.0	0
	3-6	---	0.1-9.8	4.5-6.0	0
	6-18	---	0.1-9.3	5.1-6.0	0
	18-36	0.0-14.3	---	5.1-6.5	0
	36-46	5.5-14.3	---	5.1-6.0	0
	46-72	0.0-14.3	---	5.1-6.0	0
290514					
Mardin	0-5	---	0.0-4.3	3.6-6.0	0
	5-14	---	0.0-7.9	3.6-6.0	0
	14-23	---	0.0-7.9	3.6-6.0	0
	23-26	---	1.8-7.9	3.6-6.0	0
	26-52	3.6-9.1	---	4.5-6.5	0
	52-72	3.6-9.1	---	4.5-6.5	0
290515					
Mardin	0-5	---	0.0-4.3	3.6-6.0	0
	5-14	---	0.0-7.9	3.6-6.0	0
	14-23	---	0.0-7.9	3.6-6.0	0
	23-26	---	1.8-7.9	3.6-6.0	0
	26-52	3.6-9.1	---	4.5-6.5	0
	52-72	3.6-9.1	---	4.5-6.5	0
290519					
Mongaup	0-5	---	1.4-4.3	3.6-5.5	0
	5-12	---	0.0-7.9	3.6-5.5	0
	12-20	---	0.0-7.9	3.6-5.5	0
	20-28	---	0.0-7.9	3.6-5.5	0
	28-38	---	---	---	---
290522					
Morris	0-8	---	0.0-4.3	4.5-6.0	0
	8-14	---	0.0-7.9	4.5-6.0	0
	14-26	---	0.0-7.9	4.5-6.0	0
	26-72	0.0-21.0	---	4.5-6.5	0
290523					
Morris	0-8	---	0.0-4.3	4.5-6.0	0
	8-14	---	0.0-7.9	4.5-6.0	0
	14-26	---	0.0-7.9	4.5-6.0	0
	26-72	0.0-21.0	---	4.5-6.5	0
290525					
Morris	0-8	---	0.0-4.3	4.5-6.0	0
	8-14	---	0.0-7.9	4.5-6.0	0
	14-26	---	0.0-7.9	4.5-6.0	0
	26-72	0.0-21.0	---	4.5-6.5	0
Volusia	0-8	0.0-14.9	---	4.5-6.5	0
	8-15	9.1-14.4	---	4.5-6.5	0
	15-22	9.1-14.4	---	4.5-6.5	0
	22-52	9.1-14.4	---	5.1-6.5	0
	52-72	0.0-14.4	---	5.6-7.8	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
290526					
Norchip	0-2	0.0-14.9	---	4.5-6.5	0
	2-7	9.7-14.7	---	4.5-6.5	0
	7-11	9.6-14.6	---	4.5-6.5	0
	11-25	9.1-14.4	---	5.1-6.5	0
	25-52	9.1-14.4	---	5.6-7.3	0
	52-72	0.0-14.4	---	6.1-7.3	0
290535					
Oquaga	0-6	---	0.1-15.1	3.6-6.0	0
	6-24	---	0.1-14.1	3.6-6.0	0
	24-34	---	---	---	---
290536					
Oquaga	0-6	---	0.1-15.1	3.6-6.0	0
	6-24	---	0.1-14.1	3.6-6.0	0
	24-34	---	---	---	---
290539					
Oquaga	0-6	---	0.1-15.1	3.6-6.0	0
	6-24	---	0.1-14.1	3.6-6.0	0
	24-34	---	---	---	---
290540					
Oquaga	0-6	---	0.1-15.1	3.6-6.0	0
	6-24	---	0.1-14.1	3.6-6.0	0
	24-34	---	---	---	---
Lordstown	0-3	0.0-9.4	---	4.5-6.5	0
	3-6	---	0.0-5.3	4.5-6.0	0
	6-19	---	0.0-5.3	4.5-6.0	0
	19-27	---	1.8-5.3	4.5-6.0	0
	27-32	3.6-9.0	---	5.1-6.0	0
	32-42	---	---	---	---
Arnot	0-2	---	1.4-7.4	3.6-6.0	0
	2-8	---	0.0-7.8	3.6-6.0	0
	8-17	---	0.0-13.4	3.6-6.0	0
	17-27	---	---	---	---
290541					
Oquaga	0-6	---	0.1-15.1	3.6-6.0	0
	6-24	---	0.1-14.1	3.6-6.0	0
	24-34	---	---	---	---
Lordstown	0-3	0.0-9.4	---	4.5-6.5	0
	3-6	---	0.0-5.3	4.5-6.0	0
	6-19	---	0.0-5.3	4.5-6.0	0
	19-27	---	1.8-5.3	4.5-6.0	0
	27-32	3.6-9.0	---	5.1-6.0	0
	32-42	---	---	---	---
Arnot	0-2	---	1.4-7.4	3.6-6.0	0
	2-8	---	0.0-7.8	3.6-6.0	0
	8-17	---	0.0-13.4	3.6-6.0	0
	17-27	---	---	---	---
290542					
Oquaga	0-6	---	0.1-15.1	3.6-6.0	0
	6-24	---	0.1-14.1	3.6-6.0	0
	24-34	---	---	---	---

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
290542					
Lordstown	0-3	0.0-9.4	---	4.5-6.5	0
	3-6	---	0.0-5.3	4.5-6.0	0
	6-19	---	0.0-5.3	4.5-6.0	0
	19-27	---	1.8-5.3	4.5-6.0	0
	27-32	3.6-9.0	---	5.1-6.0	0
	32-42	---	---	---	---
Arnot	0-2	---	1.4-7.4	3.6-6.0	0
	2-8	---	0.0-7.8	3.6-6.0	0
	8-17	---	0.0-13.4	3.6-6.0	0
	17-27	---	---	---	---
290546					
Raypol	0-5	---	0.0-4.6	4.5-5.5	0
	5-10	---	0.0-4.6	4.5-5.5	0
	10-13	---	0.0-4.9	4.5-5.5	0
	13-21	---	1.8-7.9	4.5-5.5	0
	21-27	0.0-9.1	---	5.1-6.5	0
	27-32	0.0-8.1	---	5.1-6.5	0
	32-40	0.0-8.1	---	5.1-6.5	0
	40-72	0.0-5.4	---	5.1-6.5	0
290547					
Red Hook	0-8	0.0-15.8	---	5.1-6.5	0
	8-17	0.0-15.4	---	5.6-6.5	0
	17-25	0.0-14.3	---	5.6-6.5	0
	25-38	0.0-14.3	---	5.6-6.5	0
	38-72	0.0-14.3	---	5.6-7.3	0
290548					
Riverhead	0-7	---	1.5-4.6	3.6-6.0	0
	7-22	---	0.0-7.9	3.6-6.0	0
	22-28	---	0.0-6.8	3.6-6.0	0
	28-72	0.0-5.4	---	4.5-7.3	0
290549					
Riverhead	0-7	---	1.5-4.6	3.6-6.0	0
	7-22	---	0.0-7.9	3.6-6.0	0
	22-28	---	0.0-6.8	3.6-6.0	0
	28-72	0.0-5.4	---	4.5-7.3	0
290555					
Torull	0-3	---	11.6-57.4	4.5-5.5	0
	3-5	---	0.0-8.4	4.5-5.5	0
	5-8	---	0.0-34.0	4.5-5.5	0
	8-13	---	0.0-13.4	4.5-5.5	0
	13-18	---	0.0-13.4	4.5-5.5	0
	18-28	---	---	---	---
Gretor	0-7	---	0.0-7.4	4.5-6.0	0
	7-16	---	0.2-14.4	4.5-6.0	0
	16-26	---	5.3-18.1	4.5-6.0	0
	26-36	---	---	---	---
290556					
Tunkhannock	0-6	---	4.2-14.8	3.6-6.0	0
	6-8	---	3.6-13.8	3.6-6.0	0
	8-18	---	3.6-13.8	3.6-6.0	0
	18-25	---	0.1-10.5	3.6-6.0	0
	25-72	---	0.1-8.1	3.6-6.0	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
290562					
Tunkhannock	0-6	---	4.2-14.8	3.6-6.0	0
	6-8	---	3.6-13.8	3.6-6.0	0
	8-18	---	3.6-13.8	3.6-6.0	0
	18-25	---	0.1-10.5	3.6-6.0	0
	25-72	---	0.1-8.1	3.6-6.0	0
Chenango	0-10	---	0.1-15.1	4.5-5.5	0
	10-21	---	0.1-14.1	4.5-6.0	0
	21-25	---	0.1-14.1	4.5-6.0	0
	25-72	0.0-12.8	---	5.1-7.8	0
290563					
Udorthents	0-4	0.0-16.2	---	4.5-7.8	0-1
	4-70	0.0-26.1	---	4.5-7.8	0-1
290565					
Unadilla	0-6	---	0.0-4.6	4.5-6.0	0
	6-15	---	0.0-4.6	4.5-6.0	0
	15-34	---	0.0-7.9	4.5-6.0	0
	34-39	---	0.0-7.9	4.5-6.0	0
	39-50	---	0.0-7.9	4.5-6.0	0
	50-72	0.0-8.0	---	5.1-7.8	0
290567					
Valois	0-4	---	0.1-9.9	3.6-6.0	0
	4-5	---	0.0-12.8	3.6-6.0	0
	5-15	---	0.1-9.3	3.6-6.0	0
	15-31	---	0.1-9.3	3.6-6.0	0
	31-72	0.0-14.3	---	4.5-7.3	0-2
290568					
Valois	0-4	---	0.1-9.9	3.6-6.0	0
	4-5	---	0.0-12.8	3.6-6.0	0
	5-15	---	0.1-9.3	3.6-6.0	0
	15-31	---	0.1-9.3	3.6-6.0	0
	31-72	0.0-14.3	---	4.5-7.3	0-2
290569					
Valois	0-4	---	0.1-9.9	3.6-6.0	0
	4-5	---	0.0-12.8	3.6-6.0	0
	5-15	---	0.1-9.3	3.6-6.0	0
	15-31	---	0.1-9.3	3.6-6.0	0
	31-72	0.0-14.3	---	4.5-7.3	0-2
290570					
Valois	0-4	---	0.1-9.9	3.6-6.0	0
	4-5	---	0.0-12.8	3.6-6.0	0
	5-15	---	0.1-9.3	3.6-6.0	0
	15-31	---	0.1-9.3	3.6-6.0	0
	31-72	0.0-14.3	---	4.5-7.3	0-2
290576					
Volusia	0-8	0.0-14.9	---	4.5-6.5	0
	8-15	9.1-14.4	---	4.5-6.5	0
	15-22	9.1-14.4	---	4.5-6.5	0
	22-52	9.1-14.4	---	5.1-6.5	0
	52-72	9.1-14.4	---	5.6-7.8	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
290578					
Wellsboro	0-8	---	0.0-4.3	4.5-6.0	0
	8-18	---	0.0-7.9	4.5-6.0	0
	18-25	---	0.0-7.9	4.5-6.0	0
	25-38	---	0.0-7.9	4.5-6.0	0
	38-52	---	1.9-7.9	4.5-6.0	0
	52-62	---	1.9-7.9	4.5-6.0	0
	62-72	---	1.9-7.9	4.5-6.0	0
290579					
Wellsboro	0-8	---	0.0-4.3	4.5-6.0	0
	8-18	---	0.0-7.9	4.5-6.0	0
	18-25	---	0.0-7.9	4.5-6.0	0
	25-38	---	0.0-7.9	4.5-6.0	0
	38-52	---	1.9-7.9	4.5-6.0	0
	52-62	---	1.9-7.9	4.5-6.0	0
	62-72	---	1.9-7.9	4.5-6.0	0
290581					
Wellsboro	0-8	---	0.0-4.3	4.5-6.0	0
	8-18	---	0.0-7.9	4.5-6.0	0
	18-25	---	0.0-7.9	4.5-6.0	0
	25-38	---	0.0-7.9	4.5-6.0	0
	38-52	---	1.9-7.9	4.5-6.0	0
	52-62	---	1.9-7.9	4.5-6.0	0
	62-72	---	1.9-7.9	4.5-6.0	0
Mardin	0-5	---	0.0-4.3	3.6-6.0	0
	5-14	---	0.0-7.9	3.6-6.0	0
	14-23	---	0.0-7.9	3.6-6.0	0
	23-26	---	1.8-7.9	3.6-6.0	0
	26-52	3.6-9.1	---	4.5-6.5	0
	52-72	3.6-9.1	---	4.5-6.5	0
290582					
Wenonah	0-10	---	0.1-9.9	4.5-6.0	0
	10-20	---	0.1-9.6	4.5-6.0	0
	20-32	---	0.1-9.6	4.5-6.0	0
	32-60	0.0-14.7	---	4.5-7.3	0
	60-72	0.0-14.7	---	4.5-7.3	0
290592					
Carlisle	0-8	120.6-184.3	---	4.5-7.3	0
	8-42	120.6-184.3	---	4.5-7.3	0
	42-65	120.6-184.3	---	4.5-7.3	0
	65-72	95.0-138.7	---	4.5-7.3	0
Palms	0-6	132.7-184.3	---	5.1-7.3	0
	6-22	132.7-184.3	---	5.1-7.3	0
	22-36	132.7-184.3	---	5.1-7.3	0
	36-72	1.8-18.0	---	5.6-7.3	0-20
293892					
Alden, extremely stony	0-9	9.9-14.9	---	5.1-7.3	0
	9-36	9.1-18.9	---	5.6-7.3	0
	36-60	9.1-18.6	---	6.1-8.4	0-1
293895					
Arnot	0-4	---	0.0-7.4	3.6-6.0	0
	4-15	---	0.0-13.4	3.6-6.0	0
	15-19	---	---	---	---

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
293895					
Lordstown	0-2	122.9-172.5	---	4.5-6.5	0
	2-8	0.0-9.4	---	4.5-6.5	0
	8-21	---	0.0-7.9	4.5-6.0	0
	21-37	0.0-9.2	---	5.1-6.0	0
	37-41	---	---	---	---
293896					
Arnot	0-3	---	0.0-7.4	3.6-6.0	0
	3-14	---	0.0-13.4	3.6-6.0	0
	14-19	---	---	---	---
Lordstown	0-2	122.9-172.5	---	4.5-6.5	0
	2-7	0.0-9.4	---	4.5-6.5	0
	7-21	---	0.0-7.9	4.5-6.0	0
	21-35	0.0-9.2	---	5.1-6.0	0
	35-43	---	---	---	---
293897					
Arnot	0-3	---	0.0-7.4	3.6-6.0	0
	3-13	---	0.0-13.4	3.6-6.0	0
	13-19	---	---	---	---
Lordstown	0-2	122.9-172.5	---	4.5-6.5	0
	2-7	0.0-9.4	---	4.5-6.5	0
	7-21	---	0.0-7.9	4.5-6.0	0
	21-34	0.0-9.2	---	5.1-6.0	0
	34-43	---	---	---	---
293921					
Erie, extremely stony	0-4	---	4.2-7.4	4.5-6.0	0
	4-18	9.1-14.6	---	5.1-6.5	0
	18-50	9.1-18.8	---	5.1-7.8	0-1
	50-70	9.1-18.6	---	5.6-8.4	0-15
293929					
Hoosic	0-6	---	0.3-9.1	4.5-5.5	0
	6-28	---	0.1-6.7	4.5-5.5	0
	28-60	---	0.1-5.3	4.5-6.0	0
293930					
Hoosic	0-5	---	0.3-9.1	4.5-5.5	0
	5-25	---	0.1-6.7	4.5-5.5	0
	25-60	---	0.1-5.3	4.5-6.0	0
293931					
Hoosic	0-5	---	0.3-9.1	4.5-5.5	0
	5-23	---	0.1-6.7	4.5-5.5	0
	23-60	---	0.1-6.5	4.5-6.0	0
293932					
Lordstown	0-2	122.9-172.5	---	4.5-6.5	0
	2-8	0.0-9.4	---	4.5-6.5	0
	8-21	---	0.0-7.9	4.5-6.0	0
	21-38	0.0-9.2	---	5.1-6.0	0
	38-42	---	---	---	---
293939					
Middlebury	0-11	0.0-15.5	---	5.1-6.5	0
	11-42	0.0-15.0	---	5.6-7.3	0
	42-60	0.0-8.9	---	5.6-7.3	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
293943					
Otisville	0-6	---	0.1-9.0	3.6-5.5	0
	6-28	---	0.0-5.3	3.6-5.5	0
	28-60	---	0.0-4.0	4.5-6.0	0
293944					
Otisville	0-6	---	0.1-9.0	3.6-5.5	0
	6-26	---	0.0-5.3	3.6-5.5	0
	26-60	---	0.0-4.0	4.5-6.0	0
293945					
Otisville	0-5	---	0.1-9.0	3.6-5.5	0
	5-23	---	0.0-5.3	3.6-5.5	0
	23-60	---	0.0-4.0	4.5-6.0	0
293946					
Otisville	0-4	---	0.1-9.0	3.6-5.5	0
	4-20	---	0.0-5.3	3.6-5.5	0
	20-60	---	0.0-4.0	4.5-6.0	0
Hoosic	0-4	---	0.3-9.1	4.5-5.5	0
	4-22	---	0.1-6.7	4.5-5.5	0
	22-60	---	0.1-5.3	4.5-6.0	0
293961					
Arnot	0-4	---	0.0-7.4	3.6-6.0	0
	4-15	---	0.0-13.4	3.6-6.0	0
	15-19	---	---	---	---
293962					
Arnot	0-4	---	0.0-7.4	3.6-6.0	0
	4-14	---	0.0-13.4	3.6-6.0	0
	14-19	---	---	---	---
293963					
Arnot	0-4	---	0.0-7.4	3.6-6.0	0
	4-12	---	0.0-13.4	3.6-6.0	0
	12-19	---	---	---	---
293975					
Suncook	0-4	0.0-16.2	---	4.5-6.5	0
	4-37	0.0-11.7	---	4.5-6.5	0
	37-60	0.0-11.1	---	4.5-6.5	0
293979					
Swartswood, very stony	0-3	---	1.5-4.6	3.6-5.5	0
	3-31	---	0.0-7.9	3.6-5.5	0
	31-60	---	0.0-7.9	3.6-5.5	0
Mardin	0-6	---	0.0-4.3	3.6-6.5	0
	6-17	---	0.0-7.9	3.6-6.5	0
	17-60	0.0-9.1	---	4.5-7.3	0
293980					
Swartswood, very stony	0-2	---	1.5-4.6	3.6-5.5	0
	2-28	---	0.0-7.9	3.6-5.5	0
	28-60	---	0.0-7.9	3.6-5.5	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
293980					
Mardin	0-6	---	0.0-4.3	3.6-6.5	0
	6-15	---	0.0-7.9	3.6-6.5	0
	15-60	0.0-9.1	---	4.5-7.3	0
293981					
Swartswood, very stony	0-2	---	1.5-4.6	3.6-5.5	0
	2-26	---	0.0-7.9	3.6-5.5	0
	26-60	---	0.0-7.9	3.6-5.5	0
Mardin	0-5	---	0.0-4.3	3.6-6.5	0
	5-14	---	0.0-7.9	3.6-6.5	0
	14-60	0.0-9.1	---	4.5-7.3	0
293983					
Udifluvents, frequently flooded	0-4	4.2-20.6	---	4.5-7.3	0
	4-70	0.0-22.7	---	4.5-8.4	0-15
Fluvaquents	0-5	0.0-21.0	---	4.5-7.3	0
	5-70	0.0-24.7	---	4.5-8.4	0-15
295043					
Alden	0-12	9.9-14.9	---	5.1-7.3	0
	12-33	9.1-18.9	---	5.6-7.3	0
	33-60	9.1-21.3	---	6.1-8.4	0-15
295044					
Arnot	0-1	---	16.5-81.5	3.6-6.0	0
	1-3	---	1.4-7.4	3.6-6.0	0
	3-17	---	0.0-13.4	3.6-6.0	0
	17-21	---	---	---	---
Lordstown	0-3	---	16.5-107.7	4.5-6.5	0
	3-6	0.0-9.4	---	4.5-6.5	0
	6-20	---	0.0-7.9	4.5-6.0	0
	20-28	0.0-9.1	---	5.1-6.0	0
	28-32	---	---	---	---
295045					
Arnot	0-1	---	16.5-81.5	3.6-6.0	0
	1-3	---	1.4-7.4	3.6-6.0	0
	3-17	---	0.0-13.4	3.6-6.0	0
	17-21	---	---	---	---
Lordstown	0-3	---	16.5-107.7	4.5-6.5	0
	3-6	0.0-9.4	---	4.5-6.5	0
	6-20	---	0.0-7.9	4.5-6.0	0
	20-28	0.0-9.1	---	5.1-6.0	0
	28-32	---	---	---	---
295046					
Arnot	0-1	---	16.5-81.5	3.6-6.0	0
	1-3	---	1.4-7.4	3.6-6.0	0
	3-17	---	0.0-13.4	3.6-6.0	0
	17-21	---	---	---	---
Oquaga	0-2	---	16.5-81.5	3.6-6.0	0
	2-6	---	0.1-15.1	3.6-6.0	0
	6-36	---	0.1-14.5	3.6-6.0	0
	36-40	---	---	---	---

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
295047					
Arnot	0-1	---	16.5-81.5	3.6-6.0	0
	1-3	---	1.4-7.4	3.6-6.0	0
	3-17	---	0.0-13.4	3.6-6.0	0
	17-21	---	---	---	---
Oquaga	0-2	---	16.5-81.5	3.6-6.0	0
	2-6	---	0.1-15.1	3.6-6.0	0
	6-36	---	0.1-14.5	3.6-6.0	0
	36-40	---	---	---	---
295048					
Arnot	0-1	---	16.5-81.5	3.6-6.0	0
	1-3	---	1.4-7.4	3.6-6.0	0
	3-17	---	0.0-13.4	3.6-6.0	0
	17-21	---	---	---	---
295049					
Arnot	0-1	---	16.5-81.5	3.6-6.0	0
	1-3	---	1.4-7.4	3.6-6.0	0
	3-17	---	0.0-13.4	3.6-6.0	0
	17-21	---	---	---	---
295050					
Arnot	0-1	---	16.5-81.5	3.6-6.0	0
	1-3	---	1.4-7.4	3.6-6.0	0
	3-17	---	0.0-13.4	3.6-6.0	0
	17-21	---	---	---	---
295051					
Barbour	0-8	---	1.5-4.9	4.5-6.0	0
	8-30	---	0.0-7.9	4.5-6.0	0
	30-60	0.0-8.1	---	4.5-6.5	0
295052					
Bash	0-5	---	0.0-3.1	3.6-5.5	0
	5-22	---	0.0-4.0	3.6-5.5	0
	22-45	---	0.0-4.0	4.5-6.0	0
	45-60	---	0.0-4.0	4.5-6.0	0
295053					
Carlisle	0-60	120.6-184.3	---	4.5-7.3	0
295054					
Carlisle, ponded	0-60	120.6-184.3	---	4.5-7.3	0
Palms, ponded	0-12	132.7-189.3	---	5.1-7.8	0
	12-22	132.7-189.3	---	5.1-7.8	0
	22-60	0.0-18.0	---	6.1-8.4	0-20
Alden, ponded	0-12	9.9-14.9	---	5.1-7.3	0
	12-33	9.1-18.9	---	5.6-7.3	0
	33-60	9.1-21.3	---	6.1-8.4	0-15
295055					
Chenango	0-4	---	4.2-15.1	4.5-6.0	0
	4-31	---	0.1-14.5	4.5-6.0	0
	31-60	0.0-12.5	---	5.1-7.8	0-1

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
295056					
Chenango	0-4	---	4.2-15.1	4.5-6.0	0
	4-31	---	0.1-14.5	4.5-6.0	0
	31-60	0.0-12.5	---	5.1-7.8	0-1
295057					
Chenango	0-4	---	4.2-15.1	4.5-6.0	0
	4-31	---	0.1-14.5	4.5-6.0	0
	31-60	0.0-12.5	---	5.1-7.8	0-1
295059					
Cheshire, stony	0-5	---	1.1-3.0	4.5-6.0	0
	5-36	---	0.0-4.0	4.5-6.0	0
	36-60	---	0.0-4.0	4.5-6.0	0
295060					
Cheshire, stony	0-5	---	1.1-3.0	4.5-6.0	0
	5-36	---	0.0-4.0	4.5-6.0	0
	36-60	---	0.0-4.0	4.5-6.0	0
295061					
Cheshire, stony	0-5	---	1.1-3.0	4.5-6.0	0
	5-36	---	0.0-4.0	4.5-6.0	0
	36-60	---	0.0-4.0	4.5-6.0	0
295062					
Cheshire, stony	0-5	---	1.1-3.0	4.5-6.0	0
	5-36	---	0.0-4.0	4.5-6.0	0
	36-60	---	0.0-4.0	4.5-6.0	0
295063					
Cheshire, stony	0-5	---	1.1-3.0	4.5-6.0	0
	5-36	---	0.0-4.0	4.5-6.0	0
	36-60	---	0.0-4.0	4.5-6.0	0
295069					
Fluvaquents	0-5	0.0-21.0	---	4.5-7.3	0
	5-70	0.0-20.2	---	4.5-8.4	0-15
Udifluvents, frequently flooded	0-4	0.0-20.2	---	4.5-7.3	0
	4-70	0.0-18.5	---	4.5-8.4	0-15
295074					
Lackawanna	0-2	---	6.4-61.7	3.6-5.5	0
	2-5	---	1.6-4.9	3.6-5.5	0
	5-34	---	0.0-7.9	3.6-5.5	0
	34-60	---	0.0-7.9	4.5-6.0	0
295075					
Lackawanna	0-2	---	6.4-61.7	3.6-5.5	0
	2-5	---	1.6-4.9	3.6-5.5	0
	5-34	---	0.0-7.9	3.6-5.5	0
	34-60	---	0.0-7.9	4.5-6.0	0
295076					
Lackawanna	0-2	---	6.4-61.7	3.6-5.5	0
	2-5	---	1.6-4.9	3.6-5.5	0
	5-34	---	0.0-7.9	3.6-5.5	0
	34-60	---	0.0-7.9	4.5-6.0	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
295082					
Lordstown, stony-----	0-3	---	16.5-107.7	4.5-6.5	0
	3-6	0.0-9.4	---	4.5-6.5	0
	6-20	---	0.0-7.9	4.5-6.0	0
	20-28	0.0-9.1	---	5.1-6.0	0
	28-32	---	---	---	---
295083					
Lordstown, very stony	0-3	---	16.5-107.7	4.5-6.5	0
	3-6	0.0-9.4	---	4.5-6.5	0
	6-20	---	0.0-7.9	4.5-6.0	0
	20-28	0.0-9.1	---	5.1-6.0	0
	28-32	---	---	---	---
Arnot, very stony----	0-1	---	16.5-81.5	3.6-6.0	0
	1-3	---	1.4-7.4	3.6-6.0	0
	3-17	---	0.0-13.4	3.6-6.0	0
	17-21	---	---	---	---
295092					
Morris----------	0-6	---	1.4-4.3	4.5-6.0	0
	6-20	---	0.0-7.9	4.5-6.0	0
	20-60	0.0-18.6	---	4.5-6.5	0
295093					
Morris----------	0-6	---	1.4-4.3	4.5-6.0	0
	6-20	---	0.0-7.9	4.5-6.0	0
	20-60	0.0-18.6	---	4.5-6.5	0
295094					
Morris----------	0-6	---	1.4-4.3	4.5-6.0	0
	6-20	---	0.0-7.9	4.5-6.0	0
	20-60	0.0-18.6	---	4.5-6.5	0
295095					
Neversink----------	0-2	---	16.5-61.7	3.6-5.5	0
	2-7	---	1.4-4.3	3.6-5.5	0
	7-23	---	0.0-7.9	3.6-5.5	0
	23-60	---	0.0-7.9	3.6-5.5	0
295101					
Oquaga----------	0-2	---	16.5-81.5	3.6-6.0	0
	2-6	---	0.1-15.1	3.6-6.0	0
	6-36	---	0.1-14.5	3.6-6.0	0
	36-40	---	---	---	---
295102					
Oquaga----------	0-2	---	16.5-81.5	3.6-6.0	0
	2-6	---	0.1-15.1	3.6-6.0	0
	6-36	---	0.1-14.5	3.6-6.0	0
	36-40	---	---	---	---
Arnot----------	0-1	---	16.5-81.5	3.6-6.0	0
	1-3	---	1.4-7.4	3.6-6.0	0
	3-17	---	0.0-13.4	3.6-6.0	0
	17-21	---	---	---	---
295103					
Oquaga----------	0-2	---	16.5-81.5	3.6-6.0	0
	2-6	---	0.1-15.1	3.6-6.0	0
	6-36	---	0.1-14.5	3.6-6.0	0
	36-40	---	---	---	---

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
295103					
Arnot	0-1	---	16.5-81.5	3.6-6.0	0
	1-3	---	1.4-7.4	3.6-6.0	0
	3-17	---	0.0-13.4	3.6-6.0	0
	17-21	---	---	---	---
295105					
Otisville	0-9	---	0.1-9.0	3.6-5.5	0
	9-33	---	0.0-5.3	3.6-5.5	0
	33-60	---	0.0-4.0	4.5-6.0	0
295106					
Otisville	0-9	---	0.1-9.0	3.6-5.5	0
	9-33	---	0.0-5.3	3.6-5.5	0
	33-60	---	0.0-4.0	4.5-6.0	0
295107					
Otisville	0-9	---	0.1-9.0	3.6-5.5	0
	9-33	---	0.0-5.3	3.6-5.5	0
	33-60	---	0.0-4.0	4.5-6.0	0
295109					
Palms	0-12	132.7-189.3	---	5.1-7.8	0
	12-22	132.7-189.3	---	5.1-7.8	0
	22-60	0.0-18.0	---	6.1-8.4	0-20
295110					
Philo	0-10	---	0.0-4.6	4.5-6.0	0
	10-38	---	0.0-7.9	4.5-6.0	0
	38-45	---	0.0-7.9	4.5-6.0	0
	45-60	---	0.0-7.9	4.5-6.0	0
295113					
Pompton	0-10	---	0.0-4.6	4.5-5.5	0
	10-30	---	0.0-7.9	4.5-5.5	0
	30-60	---	0.0-6.8	4.5-5.5	0
295114					
Pompton	0-10	---	0.0-4.6	4.5-5.5	0
	10-30	---	0.0-7.9	4.5-5.5	0
	30-60	---	0.0-6.8	4.5-5.5	0
295115					
Pope, occasionally flooded	0-3	---	0.0-4.9	3.6-5.5	0
	3-32	---	0.0-7.9	3.6-5.5	0
	32-60	---	0.0-7.9	3.6-5.5	0
295116					
Pope, rarely flooded	0-6	---	0.0-4.9	3.6-5.5	0
	6-31	---	0.0-7.9	3.6-5.5	0
	31-60	---	0.0-7.9	3.6-5.5	0
295117					
Raynham, poorly drained	0-8	0.0-9.5	---	5.1-7.3	0-2
	8-30	0.0-9.3	---	5.1-7.3	0-2
	30-62	0.0-9.1	---	5.6-7.8	0-5

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
295117					
Raynham, somewhat poorly drained	0-8	0.0-9.5	---	5.1-7.3	0-2
	8-30	0.0-9.3	---	5.1-7.3	0-2
	30-62	0.0-9.1	---	5.6-7.8	0-5
295118					
Red Hook	0-7	---	0.1-10.1	3.6-6.0	0
	7-38	---	0.1-9.5	4.5-5.5	0
	38-60	---	0.1-9.3	4.5-6.0	0
295119					
Riverhead	0-6	---	0.0-4.6	3.6-6.0	0
	6-20	---	0.0-7.9	3.6-6.0	0
	20-30	---	0.0-7.9	4.5-6.0	0
	30-60	0.0-9.0	---	4.5-7.3	0
295120					
Riverhead	0-6	---	0.0-4.6	3.6-6.0	0
	6-20	---	0.0-7.9	3.6-6.0	0
	20-30	---	0.0-7.9	4.5-6.0	0
	30-60	0.0-9.0	---	4.5-7.3	0
295121					
Riverhead	0-6	---	0.0-4.6	3.6-6.0	0
	6-20	---	0.0-7.9	3.6-6.0	0
	20-30	---	0.0-7.9	4.5-6.0	0
	30-60	0.0-9.0	---	4.5-7.3	0
295122					
Scio	0-6	---	0.0-4.6	4.5-6.0	0
	6-29	---	0.0-7.9	4.5-6.0	0
	29-60	0.0-9.1	---	5.1-7.8	0-1
295123					
Scriba, stony	0-2	---	16.5-107.7	3.6-6.5	0
	2-8	---	1.4-4.3	3.6-6.5	0
	8-20	0.0-9.2	---	5.1-7.3	0
	20-60	0.0-9.1	---	5.1-8.4	0-15
295124					
Scriba, stony	0-2	---	16.5-107.7	3.6-6.5	0
	2-8	---	1.4-4.3	3.6-6.5	0
	8-20	0.0-9.2	---	5.1-7.3	0
	20-60	0.0-9.1	---	5.1-8.4	0-15
295125					
Scriba, extremely stony	0-2	---	16.5-107.7	3.6-6.5	0
	2-8	---	1.4-4.3	3.6-6.5	0
	8-20	0.0-9.2	---	5.1-7.3	0
	20-60	0.0-9.1	---	5.1-8.4	0-15
Morris, extremely stony	0-6	---	1.4-4.3	4.5-6.0	0
	6-20	---	0.0-7.9	4.5-6.0	0
	20-60	0.0-18.6	---	4.5-6.5	0
295126					
Suncook	0-8	0.0-16.2	---	4.5-6.5	0
	8-44	0.0-11.7	---	4.5-6.5	0
	44-60	0.0-11.1	---	4.5-6.5	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
295129					
Swartswood	0-1	---	1.4-4.6	3.6-5.5	0
	1-26	---	0.0-7.9	3.6-5.5	0
	26-60	---	0.0-7.9	3.6-5.5	0
295130					
Swartswood	0-1	---	1.4-4.6	3.6-5.5	0
	1-26	---	0.0-7.9	3.6-5.5	0
	26-60	---	0.0-7.9	3.6-5.5	0
295131					
Swartswood	0-1	---	1.4-4.6	3.6-5.5	0
	1-26	---	0.0-7.9	3.6-5.5	0
	26-60	---	0.0-7.9	3.6-5.5	0
295132					
Swartswood, stony	0-2	---	16.5-61.7	3.6-5.5	0
	2-3	---	1.4-4.6	3.6-5.5	0
	3-28	---	0.0-7.9	3.6-5.5	0
	28-60	---	0.0-7.9	3.6-5.5	0
Lackawanna, stony	0-2	---	6.4-61.7	3.6-5.5	0
	2-5	---	1.6-4.9	3.6-5.5	0
	5-34	---	0.0-7.9	3.6-5.5	0
	34-60	---	0.0-7.9	4.5-6.0	0
295133					
Swartswood, very stony	0-2	---	16.5-61.7	3.6-5.5	0
	2-3	---	1.4-4.6	3.6-5.5	0
	3-28	---	0.0-7.9	3.6-5.5	0
	28-60	---	0.0-7.9	3.6-5.5	0
Lackawanna, very stony	0-2	---	6.4-61.7	3.6-5.5	0
	2-5	---	1.6-4.9	3.6-5.5	0
	5-34	---	0.0-7.9	3.6-5.5	0
	34-60	---	0.0-7.9	4.5-6.0	0
295134					
Swartswood, very stony	0-2	---	16.5-61.7	3.6-5.5	0
	2-3	---	1.4-4.6	3.6-5.5	0
	3-28	---	0.0-7.9	3.6-5.5	0
	28-60	---	0.0-7.9	3.6-5.5	0
Lackawanna, very stony	0-2	---	6.4-61.7	3.6-5.5	0
	2-5	---	1.6-4.9	3.6-5.5	0
	5-34	---	0.0-7.9	3.6-5.5	0
	34-60	---	0.0-7.9	4.5-6.0	0
295136					
Tuller, somewhat poorly drained	0-1	---	16.5-81.5	3.6-6.0	0
	1-5	---	0.0-5.1	3.6-6.0	0
	5-12	---	0.0-13.4	4.5-5.5	0
	12-16	---	---	---	---

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
295136					
Tuller, poorly drained	0-1	---	16.5-81.5	3.6-6.0	0
	1-5	---	0.0-5.1	3.6-6.0	0
	5-12	---	0.0-13.4	4.5-5.5	0
	12-16	---	---	---	---
295137					
Tunkhannock	0-6	---	4.2-14.8	3.6-6.0	0
	6-38	---	0.1-14.5	3.6-6.0	0
	38-60	---	0.1-10.5	3.6-6.0	0
295138					
Tunkhannock	0-6	---	4.2-14.8	3.6-6.0	0
	6-38	---	0.1-14.5	3.6-6.0	0
	38-60	---	0.1-10.5	3.6-6.0	0
295139					
Tunkhannock	0-6	---	4.2-14.8	3.6-6.0	0
	6-38	---	0.1-14.5	3.6-6.0	0
	38-60	---	0.1-10.5	3.6-6.0	0
295140					
Tunkhannock	0-6	---	4.2-14.8	3.6-6.0	0
	6-38	---	0.1-14.5	3.6-6.0	0
	38-60	---	0.1-10.5	3.6-6.0	0
295141					
Tunkhannock	0-6	---	4.2-14.8	3.6-6.0	0
	6-38	---	0.1-14.5	3.6-6.0	0
	38-60	---	0.1-10.5	3.6-6.0	0
Otisville	0-9	---	0.1-9.0	3.6-5.5	0
	9-33	---	0.0-5.3	3.6-5.5	0
	33-60	---	0.0-4.0	4.5-6.0	0
295142					
Tunkhannock	0-6	---	4.2-14.8	3.6-6.0	0
	6-38	---	0.1-14.5	3.6-6.0	0
	38-60	---	0.1-10.5	3.6-6.0	0
Otisville	0-9	---	0.1-9.0	3.6-5.5	0
	9-33	---	0.0-5.3	3.6-5.5	0
	33-60	---	0.0-4.0	4.5-6.0	0
295143					
Udorthents.					
295144					
Unadilla	0-5	---	0.0-4.6	4.5-6.0	0
	5-29	---	0.0-7.9	4.5-6.0	0
	29-42	0.0-9.1	---	5.1-7.8	0-1
	42-60	0.0-9.1	---	5.1-7.8	0-1
295145					
Unadilla	0-5	---	0.0-4.6	4.5-6.0	0
	5-29	---	0.0-7.9	4.5-6.0	0
	29-42	0.0-9.1	---	5.1-7.8	0-1
	42-60	0.0-9.1	---	5.1-7.8	0-1

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
295146					
Valois	0-1	---	16.5-81.5	3.6-6.0	0
	1-4	---	0.0-19.2	3.6-6.0	0
	4-26	---	0.1-9.5	3.6-6.0	0
	26-37	---	0.1-9.3	3.6-6.0	0
	37-60	0.0-14.3	---	4.5-7.3	0-2
295147					
Valois	0-1	---	16.5-81.5	3.6-6.0	0
	1-4	---	0.0-19.2	3.6-6.0	0
	4-26	---	0.1-9.5	3.6-6.0	0
	26-37	---	0.1-9.3	3.6-6.0	0
	37-60	0.0-14.3	---	4.5-7.3	0-2
295148					
Valois	0-1	---	16.5-81.5	3.6-6.0	0
	1-4	---	0.0-19.2	3.6-6.0	0
	4-26	---	0.1-9.5	3.6-6.0	0
	26-37	---	0.1-9.3	3.6-6.0	0
	37-60	0.0-14.3	---	4.5-7.3	0-2
295149					
Valois	0-1	---	16.5-81.5	3.6-6.0	0
	1-4	---	0.0-19.2	3.6-6.0	0
	4-26	---	0.1-9.5	3.6-6.0	0
	26-37	---	0.1-9.3	3.6-6.0	0
	37-60	0.0-14.3	---	4.5-7.3	0-2
295150					
Valois	0-1	---	16.5-81.5	3.6-6.0	0
	1-4	---	0.0-19.2	3.6-6.0	0
	4-26	---	0.1-9.5	3.6-6.0	0
	26-37	---	0.1-9.3	3.6-6.0	0
	37-60	0.0-14.3	---	4.5-7.3	0-2
295153					
Wayland	0-7	9.8-14.8	---	5.1-7.8	0-1
	7-20	9.1-19.0	---	5.1-8.4	0-1
	20-32	9.1-14.6	---	5.6-8.4	0-1
	32-60	9.1-14.6	---	5.6-8.4	0-1
295154					
Wellsboro	0-7	---	1.6-4.9	4.5-6.0	0
	7-23	---	0.0-7.9	4.5-6.0	0
	23-60	---	0.0-7.9	4.5-6.0	0
295155					
Wellsboro	0-7	---	1.6-4.9	4.5-6.0	0
	7-23	---	0.0-7.9	4.5-6.0	0
	23-60	---	0.0-7.9	4.5-6.0	0
295156					
Wellsboro	0-7	---	1.6-4.9	4.5-6.0	0
	7-23	---	0.0-7.9	4.5-6.0	0
	23-60	---	0.0-7.9	4.5-6.0	0
295157					
Wellsboro, extremely stony	0-7	---	1.6-4.9	4.5-6.0	0
	7-23	---	0.0-7.9	4.5-6.0	0
	23-60	---	0.0-7.9	4.5-6.0	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
295157					
Wurtsboro, extremely stony	0-2	---	16.5-61.7	3.6-5.5	0
	2-4	---	1.4-4.6	3.6-5.5	0
	4-28	---	0.0-7.9	3.6-5.5	0
	28-60	---	0.0-7.9	3.6-5.5	0
295162					
Wurtsboro, stony	0-2	---	16.5-61.7	3.6-5.5	0
	2-4	---	1.4-4.6	3.6-5.5	0
	4-28	---	0.0-7.9	3.6-5.5	0
	28-60	---	0.0-7.9	3.6-5.5	0
295163					
Wurtsboro, stony	0-2	---	16.5-61.7	3.6-5.5	0
	2-4	---	1.4-4.6	3.6-5.5	0
	4-28	---	0.0-7.9	3.6-5.5	0
	28-60	---	0.0-7.9	3.6-5.5	0
295164					
Wurtsboro, stony	0-2	---	16.5-61.7	3.6-5.5	0
	2-4	---	1.4-4.6	3.6-5.5	0
	4-28	---	0.0-7.9	3.6-5.5	0
	28-60	---	0.0-7.9	3.6-5.5	0
296588					
Arnot	0-4	---	3.9-8.1	3.6-6.0	0
	4-17	---	1.6-3.6	3.6-6.0	0
	17-24	---	---	---	0
296589					
Arnot	0-4	---	3.9-8.1	3.6-6.0	0
	4-17	---	1.6-3.6	3.6-6.0	0
	17-24	---	---	---	0
296590					
Arnot	0-4	---	3.9-8.1	3.6-6.0	0
	4-17	---	1.6-3.6	3.6-6.0	0
	17-24	---	---	---	0
296591					
Barbour	0-12	---	2.0-7.4	4.5-6.0	0
	12-28	---	1.2-3.6	4.5-6.0	0
	28-60	---	0.0-3.0	4.5-6.5	0
296592					
Basher	0-14	---	2.0-7.4	3.6-6.0	0
	14-40	---	1.2-3.6	3.6-6.0	0
	40-56	5.0-12.0	---	4.5-6.5	0
	56-69	0.0-5.0	---	4.5-6.5	0
296593					
Fluvents	0-6	---	2.5-6.8	3.6-7.3	0
	6-60	---	1.0-2.4	3.6-7.3	0
Fluvaquents	0-6	4.2-12.1	2.5-6.8	3.6-7.3	0
	6-60	0.0-5.0	---	3.6-7.3	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
296594					
Holly	0-12	15.0-25.0	---	5.6-7.3	0
	12-28	5.0-12.0	---	5.1-7.3	0
	28-42	5.0-12.0	---	5.6-7.8	0
	42-60	0.0-5.0	---	5.6-7.8	0
296595					
Linden	0-11	---	2.8-6.6	3.6-6.0	0
	11-48	---	2.0-3.6	3.6-6.0	0
	48-65	---	1.0-5.0	3.6-6.0	0
296596					
Lordstown	0-7	15.0-25.0	---	4.5-6.5	0
	7-26	---	1.6-3.6	4.5-6.0	0
	26-30	---	1.0-4.0	5.1-6.0	0
	30-42	---	---	---	0
296599					
Lordstown	0-7	15.0-25.0	---	4.5-6.5	0
	7-26	---	1.0-5.2	4.5-6.0	0
	26-30	---	1.0-4.0	5.1-6.0	0
	30-42	---	---	---	0
296600					
Lordstown	0-7	15.0-25.0	---	4.5-6.5	0
	7-26	---	1.0-5.2	4.5-6.0	0
	26-30	---	1.0-4.0	5.1-6.0	0
	30-42	---	---	---	0
296601					
Medihemists	0-60	---	---	3.6-7.3	0
Medifibrists	0-60	---	---	3.6-7.3	0
296602					
Mardin	0-8	---	2.0-5.4	4.5-5.5	0
	8-17	---	2.0-3.6	3.6-6.5	0
	17-21	---	2.0-3.6	3.6-6.5	0
	21-60	3.0-9.0	---	4.5-7.3	0
	60-80	3.0-9.0	---	5.1-8.4	0
296603					
Mardin	0-8	---	2.0-5.4	4.5-5.5	0
	8-17	---	2.0-3.6	3.6-6.5	0
	17-21	---	2.0-3.6	3.6-6.5	0
	21-60	3.0-9.0	---	4.5-7.3	0
	60-80	3.0-9.0	---	5.1-8.4	0
296604					
Mardin	0-8	---	2.0-5.4	4.5-5.5	0
	8-17	---	2.0-3.6	3.6-6.5	0
	17-21	---	2.0-3.6	3.6-6.5	0
	21-60	3.0-9.0	---	4.5-7.3	0
	60-80	3.0-9.0	---	5.1-8.4	0
296605					
Mardin	0-8	---	2.0-5.4	4.5-5.5	0
	8-17	---	2.0-3.6	3.6-6.5	0
	17-21	---	2.0-3.6	3.6-6.5	0
	21-60	3.0-9.0	---	4.5-7.3	0
	60-80	3.0-9.0	---	5.1-8.4	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
296606					
Mardin	0-8	---	2.0-5.4	4.5-5.5	0
	8-17	---	2.0-3.6	3.6-6.5	0
	17-21	---	2.0-3.6	3.6-6.5	0
	21-60	3.0-9.0	---	4.5-7.3	0
	60-80	3.0-9.0	---	5.1-8.4	0
296608					
Morris	0-8	---	3.8-7.3	4.5-6.0	0
	8-17	---	3.8-7.3	4.5-6.0	0
	17-70	3.0-10.0	---	4.5-6.5	0
	70-80	3.0-10.0	---	4.5-6.5	0
296609					
Morris	0-8	---	3.8-7.3	4.5-6.0	0
	8-17	---	3.8-7.3	4.5-6.0	0
	17-70	3.0-10.0	---	4.5-6.5	0
	70-80	3.0-10.0	---	4.5-6.5	0
296610					
Morris	0-8	---	3.0-5.0	4.5-6.0	0
	8-17	---	3.0-5.0	4.5-6.0	0
	17-70	3.0-10.0	---	4.5-6.5	0
	70-80	3.0-10.0	---	4.5-6.5	0
296611					
Morris	0-8	---	3.0-5.0	4.5-6.0	0
	8-17	---	3.0-5.0	4.5-6.0	0
	17-70	---	2.0-4.0	4.5-6.5	0
	70-80	---	2.0-4.0	4.5-6.5	0
296613					
Norwich	0-8	5.0-15.0	---	5.1-6.5	0
	8-16	5.0-10.0	---	5.1-6.5	0
	16-48	5.0-10.0	---	5.1-7.3	0
	48-80	6.0-20.0	---	5.6-8.4	0
Chippewa	0-8	15.0-22.0	---	4.5-6.5	0
	8-16	12.0-20.0	---	4.5-6.5	0
	16-48	12.0-18.0	---	5.1-7.3	0
	48-80	6.0-20.0	---	5.6-8.4	0
296614					
Oquaga	0-7	---	2.9-9.9	3.6-6.0	0
	7-30	---	1.4-5.4	3.6-6.0	0
	30-42	---	---	---	0
296615					
Oquaga	0-7	---	2.9-9.9	3.6-6.0	0
	7-30	---	1.4-5.4	3.6-6.0	0
	30-42	---	---	---	0
296616					
Oquaga	0-7	---	2.9-9.9	3.6-6.0	0
	7-30	---	1.4-5.4	3.6-6.0	0
	30-42	---	---	---	0
296617					
Oquaga	0-7	---	1.4-5.4	3.6-6.0	0
	7-30	---	1.4-5.4	3.6-6.0	0
	30-42	---	---	---	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
296618					
Oquaga	0-7	---	1.4-5.4	3.6-6.0	0
	7-30	---	1.4-5.4	3.6-6.0	0
	30-42	---	---	---	0
296619					
Oquaga	0-7	---	1.4-5.4	3.6-6.0	0
	7-30	---	1.4-5.4	3.6-6.0	0
	30-42	---	---	---	0
Lordstown	0-7	6.2-14.9	---	4.5-6.5	0
	7-26	4.5-12.9	---	4.5-6.5	0
	26-30	2.5-11.7	---	5.1-6.0	0
	30-42	---	---	---	0
296622					
Rexford, poorly drained	0-8	---	2.8-6.3	4.5-6.0	0
	8-18	5.9-14.1	---	5.1-6.5	0
	18-40	5.4-10.9	---	5.1-6.5	0
	40-63	2.5-9.5	---	5.1-6.5	0
Rexford, somewhat poorly drained	0-8	---	2.8-6.3	4.5-6.0	0
	8-18	5.9-14.1	---	5.1-6.5	0
	18-40	5.4-10.9	---	5.1-6.5	0
	40-63	2.5-9.5	---	5.1-6.5	0
296623					
Arnot	0-4	---	3.9-8.1	3.6-6.0	0
	4-17	---	1.6-3.6	3.6-6.0	0
	17-24	---	---	---	0
296625					
Swartswood	0-28	---	3.2-6.3	3.6-5.5	0
	28-60	---	1.6-4.0	3.6-5.5	0
296628					
Swartswood	0-28	---	2.4-4.0	3.6-5.5	0
	28-60	---	1.6-4.0	3.6-5.5	0
296630					
Volusia	0-8	---	4.5-6.5	4.5-6.5	0
	8-15	10.0-18.0	---	4.5-6.5	0
	15-70	9.0-16.0	---	5.1-7.3	0
	70-80	5.0-17.0	---	5.6-8.4	0
296632					
Volusia	0-8	---	4.5-6.5	4.5-6.5	0
	8-15	10.0-18.0	---	4.5-6.5	0
	15-70	9.0-16.0	---	5.1-7.3	0
	70-80	5.0-17.0	---	5.6-8.4	0
296633					
Volusia	0-8	10.0-20.0	---	4.5-6.5	0
	8-15	5.0-10.0	---	4.5-6.5	0
	15-70	5.0-10.0	---	5.1-7.3	0
	70-80	5.0-10.0	---	5.6-8.4	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
296634					
Wellsboro	0-8	---	2.0-5.4	4.5-5.5	0
	8-17	---	3.0-5.4	4.5-6.0	0
	17-21	---	3.0-5.4	4.5-6.0	0
	21-60	---	3.0-5.4	4.5-6.0	0
	60-80	---	3.0-5.4	4.5-6.0	0
296635					
Wellsboro	0-8	---	2.0-5.4	4.5-5.5	0
	8-17	---	3.0-5.4	4.5-6.0	0
	17-21	---	3.0-5.4	4.5-6.0	0
	21-60	---	3.0-5.4	4.5-6.0	0
	60-80	---	3.0-5.4	4.5-6.0	0
296636					
Wellsboro	0-8	---	2.0-5.4	4.5-5.5	0
	8-17	---	3.0-5.4	4.5-6.0	0
	17-21	---	3.0-5.4	4.5-6.0	0
	21-60	---	3.0-5.4	4.5-6.0	0
	60-80	---	3.0-5.4	4.5-6.0	0
296637					
Wellsboro	0-8	---	2.0-5.4	4.5-5.5	0
	8-17	---	3.0-5.4	4.5-6.0	0
	17-21	---	3.0-5.4	4.5-6.0	0
	21-60	---	3.0-5.4	4.5-6.0	0
	60-80	---	3.0-5.4	4.5-6.0	0
296638					
Wellsboro	0-8	---	2.0-5.4	4.5-5.5	0
	8-17	---	3.0-5.4	4.5-6.0	0
	17-21	---	3.0-5.4	4.5-6.0	0
	21-60	---	3.0-5.4	4.5-6.0	0
	60-80	---	3.0-5.4	4.5-6.0	0
296639					
Wellsboro	0-8	---	2.0-5.4	4.5-5.5	0
	8-17	---	3.0-5.4	4.5-6.0	0
	17-21	---	3.0-5.4	4.5-6.0	0
	21-60	---	3.0-5.4	4.5-6.0	0
	60-80	5.0-15.0	3.0-5.8	4.5-6.0	0
Mardin	0-8	---	2.0-5.4	4.5-5.5	0
	8-17	---	2.0-3.6	3.6-6.5	0
	17-21	---	2.0-3.6	3.6-6.5	0
	21-60	3.0-9.0	---	4.5-7.3	0
	60-80	3.0-9.0	---	5.1-8.4	0
296640					
Wyoming	0-7	---	3.1-6.6	3.6-6.0	0
	7-25	---	1.0-3.0	3.6-6.0	0
	25-60	---	0.2-2.2	3.6-6.0	0
296641					
Wyoming	0-7	---	3.1-6.6	3.6-6.0	0
	7-25	---	1.0-3.0	3.6-6.0	0
	25-60	---	0.2-2.2	3.6-6.0	0
296642					
Wyoming	0-7	---	3.1-6.6	3.6-6.0	0
	7-25	---	1.0-3.0	3.6-6.0	0
	25-60	---	0.2-2.2	3.6-6.0	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
296643					
Wyoming	0-7	---	3.1-6.6	3.6-6.0	0
	7-25	---	1.0-3.0	3.6-6.0	0
	25-60	---	0.2-2.2	3.6-6.0	0
297185					
Edgemere	0-2	15.0-30.0	3.0-15.0	4.0-5.5	0
	2-5	5.0-10.0	3.1-9.0	4.0-5.5	0
	5-24	5.0-10.0	1.6-3.8	4.0-5.5	0
	24-66	5.0-10.0	1.6-4.4	4.0-5.5	0
Shohola	0-3	5.0-15.0	3.1-6.0	3.5-5.0	0
	3-24	5.0-10.0	1.6-3.4	4.5-5.0	0
	24-72	0.0-5.0	1.6-3.4	4.5-5.5	0
297186					
Edgemere	0-2	15.0-30.0	3.0-15.0	4.0-5.5	0
	2-5	5.0-10.0	3.1-9.0	4.0-5.5	0
	5-24	5.0-10.0	1.6-3.8	4.0-5.5	0
	24-66	5.0-10.0	1.6-4.4	4.0-5.5	0
297188					
Manlius	0-5	10.0-23.0	2.7-9.6	3.5-6.0	0
	5-24	3.0-13.0	1.2-4.4	3.5-6.0	0
	24-30	2.0-9.0	1.0-3.0	4.5-6.5	0
	30-40	---	---	---	0
Arnot	0-3	15.0-25.0	3.9-8.1	3.6-6.0	0
	3-14	10.0-20.0	1.6-4.0	3.6-6.0	0
	14-24	---	---	---	0
297189					
Manlius	0-5	10.0-23.0	2.7-9.6	3.5-6.0	0
	5-24	3.0-13.0	1.2-4.4	3.5-6.0	0
	24-30	2.0-9.0	1.0-3.0	4.5-6.5	0
	30-40	---	---	---	0
Arnot	0-3	15.0-25.0	3.9-8.1	3.6-6.0	0
	3-14	10.0-20.0	1.6-4.0	3.6-6.0	0
	14-24	---	0.0-0.0	---	0
297190					
Braceville	0-11	5.0-10.0	2.5-6.0	4.5-6.0	0
	11-27	3.0-6.0	1.0-2.0	4.5-6.0	0
	27-48	3.0-6.0	1.0-3.0	5.1-6.5	0
	48-70	0.0-1.0	0.5-2.0	5.1-6.5	0
297191					
Wyalusing	0-6	15.0-25.0	6.0-16.0	5.1-6.5	0
	6-31	5.0-12.0	2.0-7.0	5.1-6.5	0
	31-70	0.0-5.0	0.5-2.0	5.1-6.5	0
297192					
Pope	0-6	10.0-20.0	1.8-6.0	3.6-5.5	0
	6-33	5.0-15.0	1.2-4.0	3.6-5.5	0
	33-70	5.0-15.0	1.1-4.6	3.6-5.5	0
297193					
Paupack	0-3	150.0-230.0	22.5-37.5	3.2-4.2	0
	3-26	150.0-230.0	22.5-37.5	3.2-4.2	0
	26-36	20.0-40.0	1.5-7.5	4.0-5.5	0
	36-70	2.0-20.0	1.0-5.1	4.0-5.5	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
297194					
Morris	0-8	15.0-25.0	5.3-11.0	4.5-6.0	0
	8-17	5.0-15.0	3.0-5.4	4.5-6.0	0
	17-70	5.0-15.0	3.0-7.0	4.5-6.5	0
	70-80	5.0-15.0	3.0-7.0	4.5-6.5	0
297196					
Freetown	0-6	30.0-80.0	37.5-74.3	3.6-4.4	0
	6-72	30.0-80.0	20.0-80.0	3.6-4.4	0
297199					
Oquaga	0-2	15.0-25.0	2.9-11.4	3.6-6.0	0
	2-26	15.0-20.0	1.4-6.9	3.6-6.0	0
	26-32	15.0-20.0	1.4-6.9	3.6-6.0	0
	32-42	---	---	---	0
297200					
Oquaga	0-2	15.0-25.0	2.9-11.4	3.6-6.0	0
	2-26	15.0-20.0	1.4-6.9	3.6-6.0	0
	26-32	15.0-20.0	1.4-6.9	3.6-6.0	0
	32-42	---	---	---	0
297201					
Oquaga	0-2	15.0-25.0	2.9-11.4	3.6-6.0	0
	2-26	15.0-20.0	1.4-6.9	3.6-6.0	0
	26-32	15.0-20.0	1.4-6.9	3.6-6.0	0
	32-42	---	---	---	0
297202					
Oquaga	0-2	15.0-25.0	2.9-11.4	3.6-6.0	0
	2-26	15.0-20.0	1.4-6.9	3.6-6.0	0
	26-32	15.0-20.0	1.4-6.9	3.6-6.0	0
	32-42	---	---	---	0
Arnot	0-3	12.0-25.0	3.9-8.1	3.6-6.0	0
	3-14	5.0-15.0	1.6-4.0	3.6-6.0	0
	14-24	---	---	---	0
297203					
Delaware	0-14	5.0-10.0	4.0-9.0	5.1-7.3	0
	14-48	3.0-6.0	1.0-3.0	5.1-7.3	0
	48-72	3.0-6.0	1.0-3.0	5.6-7.3	0
297204					
Delaware	0-14	5.0-10.0	4.0-9.0	5.1-7.3	0
	14-48	3.0-6.0	1.0-3.0	5.1-7.3	0
	48-72	3.0-6.0	1.0-3.0	5.6-7.3	0
297205					
Delaware	0-14	5.0-10.0	4.0-9.0	5.1-7.3	0
	14-48	3.0-6.0	1.0-3.0	5.1-7.3	0
	48-72	3.0-6.0	1.0-3.0	5.6-7.3	0
297207					
Wurtsboro	0-7	15.0-35.0	2.8-5.3	3.6-5.5	0
	7-22	5.0-10.0	2.0-3.0	3.6-5.5	0
	22-60	5.0-10.0	2.0-3.0	3.6-5.5	0
297208					
Wurtsboro	0-7	15.0-35.0	2.8-5.3	3.6-5.5	0
	7-22	5.0-10.0	2.0-3.4	3.6-5.5	0
	22-60	5.0-10.0	2.0-3.0	3.6-5.5	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
297209					
Philo	0-6	10.0-20.0	3.5-6.6	4.5-6.0	0
	6-36	6.0-18.0	2.0-4.0	4.5-6.0	0
	36-70	4.0-10.0	1.0-4.0	4.5-6.0	0
297210					
Barbour	0-10	10.0-15.0	2.0-7.4	4.5-6.0	0
	10-38	5.0-10.0	1.2-4.0	4.5-6.0	0
	38-72	5.0-10.0	0.5-2.0	4.5-6.5	0
297211					
Wellsboro	0-8	15.0-25.0	4.3-8.9	3.6-6.5	0
	8-17	5.0-15.0	3.0-5.8	4.5-6.0	0
	17-21	5.0-15.0	3.0-5.8	4.5-6.0	0
	21-60	5.0-15.0	3.0-5.8	4.5-6.0	0
	60-80	5.0-15.0	3.0-5.8	4.5-6.0	0
297212					
Wellsboro	0-8	15.0-25.0	4.3-8.9	3.6-6.5	0
	8-17	5.0-15.0	3.0-5.8	4.5-6.0	0
	17-21	5.0-15.0	3.0-5.8	4.5-6.0	0
	21-60	5.0-15.0	3.0-5.8	4.5-6.0	0
	60-80	5.0-15.0	3.0-5.8	4.5-6.0	0
297213					
Wellsboro	0-8	15.0-25.0	4.3-8.9	3.6-6.5	0
	8-17	5.0-15.0	3.0-5.8	4.5-6.0	0
	17-21	5.0-15.0	3.0-5.8	4.5-6.0	0
	21-60	5.0-15.0	3.0-5.8	4.5-6.0	0
	60-80	5.0-15.0	3.0-5.8	4.5-6.0	0
297215					
Wellsboro	0-8	10.0-20.0	4.3-9.2	4.5-6.0	0
	8-17	5.0-15.0	3.0-5.8	4.5-6.0	0
	17-21	5.0-15.0	3.0-5.8	4.5-6.0	0
	21-60	5.0-15.0	3.0-5.8	4.5-6.0	0
	60-80	5.0-15.0	3.0-5.8	4.5-6.0	0
297216					
Wurtsboro	0-4	15.0-35.0	3.5-6.6	3.6-5.5	0
	4-22	2.0-8.0	2.0-4.0	3.6-5.5	0
	22-70	0.0-1.0	2.0-3.6	3.6-5.5	0
297217					
Wurtsboro	0-4	15.0-35.0	2.5-6.6	3.6-5.5	0
	4-22	2.0-8.0	1.0-4.0	3.6-5.5	0
	22-70	0.0-1.0	1.0-4.0	3.6-5.5	0
297218					
Wurtsboro	0-4	15.0-35.0	2.5-6.6	3.6-5.5	0
	4-22	2.0-8.0	1.0-4.0	3.6-5.5	0
	22-70	0.0-1.0	1.0-4.0	3.6-5.5	0
297221					
Lackawanna	0-7	10.0-30.0	4.3-9.9	4.5-6.0	0
	7-29	5.0-10.0	1.0-4.0	4.5-6.0	0
	29-75	5.0-10.0	1.0-4.0	4.5-6.0	0
297223					
Lackawanna	0-7	10.0-30.0	4.3-9.9	4.5-6.0	0
	7-29	5.0-10.0	1.0-4.0	4.5-6.0	0
	29-75	5.0-10.0	1.0-4.0	4.5-6.0	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
297224					
Swartswood	0-4	15.0-35.0	6.2-11.5	3.6-5.5	0
	4-32	3.0-10.0	2.0-4.8	3.6-5.5	0
	32-70	3.0-10.0	1.6-4.4	3.6-5.5	0
297225					
Swartswood	0-4	15.0-35.0	6.2-11.5	3.6-5.5	0
	4-32	3.0-10.0	2.0-4.8	3.6-5.5	0
	32-70	3.0-10.0	1.6-4.4	3.6-5.5	0
297226					
Swartswood	0-4	15.0-35.0	6.2-11.5	3.6-5.5	0
	4-32	3.0-10.0	2.0-4.8	3.6-5.5	0
	32-70	3.0-10.0	1.6-4.4	3.6-5.5	0
297227					
Arnot	0-3	12.0-22.0	3.9-8.1	3.6-6.0	0
	3-10	3.0-13.0	1.6-5.1	3.6-6.0	0
	10-14	3.0-13.0	1.6-5.1	3.6-6.0	0
	14-24	---	---	---	0
297228					
Arnot	0-3	12.0-22.0	3.9-8.1	3.6-6.0	0
	3-10	3.0-13.0	1.6-5.1	3.6-6.0	0
	10-14	3.0-13.0	1.6-5.1	3.6-6.0	0
	14-24	---	---	---	0
297229					
Wyoming	0-3	10.0-20.0	3.1-6.6	3.6-6.0	0
	3-33	5.0-10.0	1.0-3.4	3.6-6.0	0
	33-72	1.0-5.0	0.2-2.6	3.6-6.0	0
297230					
Wyoming	0-3	10.0-20.0	3.1-6.6	3.6-6.0	0
	3-33	5.0-10.0	1.0-3.4	3.6-6.0	0
	33-72	1.0-5.0	0.2-2.6	3.6-6.0	0
297231					
Wyoming	0-3	10.0-20.0	3.1-6.6	3.6-6.0	0
	3-33	5.0-10.0	1.0-3.4	3.6-6.0	0
	33-72	1.0-5.0	0.2-2.6	3.6-6.0	0
297236					
Suncook	0-10	5.0-15.0	4.0-9.0	4.5-6.5	0
	10-70	1.0-3.0	0.3-1.0	4.5-6.5	0
297239					
Mardin	0-8	15.0-25.0	4.3-8.9	3.6-6.5	0
	8-17	5.0-12.0	2.0-4.4	3.6-6.5	0
	17-21	5.0-12.0	2.0-4.4	3.6-6.5	0
	21-30	3.0-10.0	2.0-4.0	4.5-7.3	0
	30-60	3.0-9.0	2.0-4.0	5.1-8.4	0
	60-80	3.0-9.0	2.0-4.0	5.1-8.4	0
297240					
Mardin	0-8	15.0-25.0	4.3-8.9	3.6-6.5	0
	8-17	5.0-12.0	2.0-4.4	3.6-6.5	0
	17-21	5.0-12.0	2.0-4.4	3.6-6.5	0
	21-30	3.0-10.0	2.0-4.0	4.5-7.3	0
	30-60	3.0-9.0	2.0-4.0	5.1-8.4	0
	60-80	3.0-9.0	2.0-4.0	5.1-8.4	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
297241					
Unadilla	0-13	12.0-28.0	2.5-9.0	4.5-6.0	0
	13-49	3.0-8.0	0.6-3.8	4.5-6.0	0
	49-80	2.0-5.0	0.2-1.8	4.5-6.0	0
297242					
Shohola	0-3	5.0-15.0	3.1-6.0	3.5-5.0	0
	3-24	5.0-10.0	1.6-3.4	4.5-5.0	0
	24-72	0.0-5.0	1.6-3.4	4.5-5.5	0
Edgemere	0-2	15.0-30.0	3.0-15.0	4.0-5.5	0
	2-5	5.0-10.0	3.1-9.0	4.0-5.5	0
	5-24	5.0-10.0	1.6-3.8	4.0-5.5	0
	24-66	5.0-10.0	1.6-4.4	4.0-5.5	0
297243					
Shohola	0-3	5.0-15.0	3.1-6.0	3.5-5.0	0
	3-24	5.0-10.0	1.6-3.4	4.5-5.0	0
	24-72	0.0-5.0	1.6-3.4	4.5-5.5	0
Edgemere	0-2	15.0-30.0	3.0-15.0	4.0-5.5	0
	2-5	5.0-10.0	3.1-9.0	4.0-5.5	0
	5-24	5.0-10.0	1.6-3.8	4.0-5.5	0
	24-66	5.0-10.0	1.6-4.4	4.0-5.5	0
297244					
Lordstown	0-3	15.0-25.0	7.0-17.0	4.5-6.5	0
	3-28	15.0-25.0	1.4-6.0	4.5-6.0	0
	28-30	5.0-15.0	1.0-4.0	4.5-6.0	0
	30-40	---	---	---	0
Swartswood	0-4	15.0-35.0	6.2-11.5	3.6-5.5	0
	4-32	3.0-10.0	2.0-4.8	3.6-5.5	0
	32-70	3.0-10.0	1.6-4.4	3.6-5.5	0
297245					
Lordstown	0-3	15.0-25.0	7.0-17.0	4.5-6.5	0
	3-28	15.0-25.0	1.4-6.0	4.5-6.0	0
	28-30	5.0-15.0	1.0-4.0	4.5-6.0	0
	30-40	---	---	---	0
Swartswood	0-4	15.0-35.0	6.2-11.5	3.6-5.5	0
	4-32	3.0-10.0	2.0-4.8	3.6-5.5	0
	32-70	3.0-10.0	1.6-4.4	3.6-5.5	0
297246					
Lordstown	0-3	15.0-25.0	7.0-17.0	4.5-6.5	0
	3-28	15.0-25.0	1.4-6.0	4.5-6.0	0
	28-30	5.0-15.0	1.0-4.0	4.5-6.0	0
	30-40	---	---	---	0
Swartswood	0-4	15.0-35.0	6.2-11.5	3.6-5.5	0
	4-32	3.0-10.0	2.0-4.8	3.6-5.5	0
	32-70	3.0-10.0	1.6-4.4	3.6-5.5	0
297247					
Chenango	0-10	20.0-35.0	2.5-6.9	4.5-6.0	0
	10-29	10.0-20.0	1.0-3.2	4.5-6.0	0
	29-70	3.0-8.0	0.5-3.0	5.1-7.8	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
297248					
Chenango	0-10	20.0-35.0	2.5-6.9	4.5-6.0	0
	10-29	10.0-20.0	1.0-3.2	4.5-6.0	0
	29-70	3.0-8.0	0.5-3.0	5.1-7.8	0
297249					
Chenango	0-10	20.0-35.0	2.5-6.9	4.5-6.0	0
	10-29	10.0-20.0	1.0-3.2	4.5-6.0	0
	29-70	3.0-8.0	0.5-3.0	5.1-7.8	0
297250					
Lordstown	0-3	15.0-25.0	6.0-17.0	4.5-6.5	0
	3-28	15.0-25.0	1.4-6.0	4.5-6.0	0
	28-30	5.0-15.0	1.0-4.0	4.5-6.0	0
	30-40	---	---	---	0
297251					
Lordstown	0-3	15.0-25.0	6.0-17.0	4.5-6.5	0
	3-28	15.0-25.0	1.4-6.0	4.5-6.0	0
	28-30	5.0-15.0	1.0-4.0	4.5-6.0	0
	30-40	---	---	---	0
297253					
Craigsville	0-5	10.0-15.0	2.5-6.8	4.5-5.5	0
	5-27	5.0-10.0	1.0-3.4	4.5-5.5	0
	27-77	5.0-10.0	1.0-2.4	4.5-5.5	0
Wyoming	0-3	10.0-15.0	3.1-6.6	3.6-6.0	0
	3-33	5.0-10.0	1.0-3.4	3.6-6.0	0
	33-72	1.0-5.0	0.2-2.6	3.6-6.0	0
309440					
Edgemere	0-2	15.0-30.0	3.0-15.0	4.0-5.5	0
	2-5	5.0-10.0	3.1-9.0	4.0-5.5	0
	5-24	5.0-10.0	1.6-3.8	4.0-5.5	0
	24-66	5.0-10.0	1.6-4.4	4.0-5.5	0
Shohola	0-3	5.0-15.0	3.1-6.0	3.5-5.0	0
	3-24	5.0-10.0	1.6-3.4	4.5-5.0	0
	24-72	0.0-5.0	1.6-3.4	4.5-5.5	0
319863					
Oquaga	0-2	15.0-25.0	2.9-11.4	3.6-6.0	0
	2-26	15.0-20.0	1.4-6.9	3.6-6.0	0
	26-32	15.0-20.0	1.4-6.9	3.6-6.0	0
	32-42	---	---	---	0
Arnot	0-3	12.0-25.0	3.9-8.1	3.6-6.0	0
	3-14	5.0-15.0	1.6-4.0	3.6-6.0	0
	14-24	---	---	---	0
319865					
Wellsboro	0-8	15.0-25.0	4.3-8.9	3.6-6.5	0
	8-17	5.0-15.0	3.0-5.8	4.5-6.0	0
	17-21	5.0-15.0	3.0-5.8	4.5-6.0	0
	21-60	5.0-15.0	3.0-5.8	4.5-6.0	0
	60-80	5.0-15.0	3.0-5.8	4.5-6.0	0

Table 18.--Chemical Soil Properties--Continued

Map unit symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*
741008					
Oquaga	0-2	15.0-25.0	2.9-11.4	3.6-6.0	0
	2-26	15.0-20.0	1.4-6.9	3.6-6.0	0
	26-32	15.0-20.0	1.4-6.9	3.6-6.0	0
	32-42	---	---	---	0

Table 19.--Water Features

[See text for definitions of terms used in this table. Estimates of the frequency of ponding and flooding apply to the whole year rather than to individual months. Absence of an entry indicates that the feature is not a concern or that data were not estimated. Depth to water table is based on a representative value]

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
290457									
Barbour	B								
		Jan-Apr	4.5	>6.0	---	---	None	Brief	Rare
		December	4.5	>6.0	---	---	None	Brief	Rare
290461									
Bath	C/D								
		Jan-Mar	1.6	2.2	---	---	None	---	None
		December	1.6	2.2	---	---	None	---	None
290465									
Cadosia	B								
		Jan-Dec	---	---	---	---	None	---	None
290466									
Cadosia	B								
		Jan-Dec	---	---	---	---	None	---	None
290468									
Chenango	A								
		Jan-Dec	---	---	---	---	None	---	None
290483									
Fluvaquents	A/D								
		Jan-Apr	0.5	>6.0	0.0-0.5	Long	Frequent	Long	Frequent
		May	0.5	>6.0	0.0-0.5	Long	Occasional	Long	Frequent
		June	0.5	>6.0	0.0-0.5	Brief	Occasional	Brief	Frequent
		July	0.5	>6.0	---	---	---	Brief	Frequent
		September	0.5	>6.0	---	---	---	Brief	Frequent
		October	0.5	>6.0	0.0-0.5	Brief	Occasional	Brief	Frequent
		November	0.5	>6.0	0.0-0.5	Brief	Occasional	Long	Frequent
		December	0.5	>6.0	0.0-0.5	Long	Frequent	Long	Frequent
Udifluvents	A								
		Jan-Jun	4.0	>6.0	---	---	None	Brief	Frequent
		Oct-Dec	4.0	>6.0	---	---	None	Brief	Frequent

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
290484									
Halcott	D								
		Jan-Dec	---	---	---	---	None	---	None
Mongaup	C								
		Jan-Dec	---	---	---	---	None	---	None
Vly	C								
		Jan-Dec	---	---	---	---	None	---	None
290485									
Halcott	D								
		Jan-Dec	---	---	---	---	None	---	None
Mongaup	C								
		Jan-Dec	---	---	---	---	None	---	None
Vly	C								
		Jan-Dec	---	---	---	---	None	---	None
290487									
Lackawanna	C/D								
		Jan-Mar	1.8	2.3	---	---	None	---	None
		Nov-Dec	1.8	2.3	---	---	None	---	None
290488									
Lackawanna	C/D								
		Jan-Mar	1.8	2.3	---	---	None	---	None
		Nov-Dec	1.8	2.3	---	---	None	---	None
290489									
Lackawanna	C/D								
		Jan-Mar	1.8	2.3	---	---	None	---	None
		Nov-Dec	1.8	2.3	---	---	None	---	None
290490									
Lackawanna	C/D								
		Jan-Mar	1.8	2.3	---	---	None	---	None
		Nov-Dec	1.8	2.3	---	---	None	---	None
290491									
Lackawanna	C/D								
		Jan-Mar	1.8	2.3	---	---	None	---	None
		Nov-Dec	1.8	2.3	---	---	None	---	None
Bath	C/D								
		Jan-Mar	1.6	2.2	---	---	None	---	None
		December	1.6	2.2	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
290492									
Lackawanna	C/D								
		Jan-Mar	1.8	2.3	---	---	None	---	None
		Nov-Dec	1.8	2.3	---	---	None	---	None
Bath	C/D								
		Jan-Mar	1.6	2.2	---	---	None	---	None
		December	1.6	2.2	---	---	None	---	None
290493									
Lackawanna	C/D								
		Jan-Mar	1.8	2.3	---	---	None	---	None
		Nov-Dec	1.8	2.3	---	---	None	---	None
Bath	C/D								
		Jan-Mar	1.6	2.2	---	---	None	---	None
		December	1.6	2.2	---	---	None	---	None
290506									
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
290507									
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
290509									
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
290510									
Maplecrest	B								
		Jan-Dec	---	---	---	---	None	---	None
290511									
Maplecrest	B								
		Jan-Dec	---	---	---	---	None	---	None
290512									
Maplecrest	B								
		Jan-Dec	---	---	---	---	None	---	None
290514									
Mardin	C/D								
		Jan-Apr	1.3	2.2	---	---	None	---	None
		Nov-Dec	1.3	2.2	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
290515									
Mardin	C/D								
		Jan-Apr	1.3	2.2	---	---	None	---	None
		Nov-Dec	1.3	2.2	---	---	None	---	None
290519									
Mongaup	C								
		Jan-Dec	---	---	---	---	None	---	None
290522									
Morris	D								
		Jan-May	0.7	1.2	---	---	None	---	None
		Nov-Dec	0.7	1.2	---	---	None	---	None
290523									
Morris	D								
		Jan-May	0.7	1.2	---	---	None	---	None
		Nov-Dec	0.7	1.2	---	---	None	---	None
290525									
Morris	D								
		Jan-May	0.7	1.2	---	---	None	---	None
		Nov-Dec	0.7	1.2	---	---	None	---	None
Volusia	D								
		Jan-May	0.7	1.8	---	---	None	---	None
		Nov-Dec	0.7	1.8	---	---	None	---	None
290526									
Norchip	D								
		Jan-May	0.1	0.9	---	---	None	---	None
		Nov-Dec	0.1	0.9	---	---	None	---	None
290535									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
290536									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
290539									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
290540									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None
290541									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None
290542									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None
290544									
Pits, gravel.									
290546									
Raypol	B/D								
		Jan-Apr	0.5	>6.0	0.0-0.5	Brief	Occasional	Brief	Rare
		May	0.5	>6.0	0.0-0.5	Brief	Occasional	---	None
		Nov-Dec	0.5	>6.0	0.0-0.5	Brief	Occasional	Brief	Rare
290547									
Red Hook	B/D								
		Jan-May	1.0	>6.0	---	---	None	---	None
		December	1.0	>6.0	---	---	None	---	None
290548									
Riverhead	A								
		Jan-Dec	---	---	---	---	None	---	None
290549									
Riverhead	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
290555									
Torull	D								
		January	0.4	4.9	---	---	None	---	None
		February	0.4	0.4	---	---	None	---	None
		Mar-Jun	0.4	4.9	---	---	None	---	None
		Nov-Dec	0.4	4.9	---	---	None	---	None
Gretor	C/D								
		Jan-Jun	1.0	4.9	---	---	None	---	None
		Nov-Dec	1.0	4.9	---	---	None	---	None
290556									
Tunkhannock	A								
		Jan-Dec	---	---	---	---	None	---	None
290562									
Tunkhannock	A								
		Mar-May	4.5	>6.0	---	---	None	Brief	Rare
Chenango	A								
		Mar-May	4.5	>6.0	---	---	None	Brief	Rare
290563									
Udorthents	B								
		Jan-Jun	3.0	>6.0	---	---	None	---	None
		Nov-Dec	3.0	>6.0	---	---	None	---	None
290565									
Unadilla	B								
		Jan-Dec	---	---	---	---	None	---	None
290567									
Valois	B								
		Jan-Dec	---	---	---	---	None	---	None
290568									
Valois	B								
		Jan-Dec	---	---	---	---	None	---	None
290569									
Valois	B								
		Jan-Dec	---	---	---	---	None	---	None
290570									
Valois	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
290576									
Volusia	D								
		Jan-May	0.7	1.8	---	---	None	---	None
		Nov-Dec	0.7	1.8	---	---	None	---	None
290578									
Wellsboro	C/D								
		Jan-Mar	1.2	2.1	---	---	None	---	None
		Nov-Dec	1.2	2.1	---	---	None	---	None
290579									
Wellsboro	C/D								
		Jan-Mar	1.2	2.1	---	---	None	---	None
		Nov-Dec	1.2	2.1	---	---	None	---	None
290581									
Wellsboro	C/D								
		Jan-Mar	1.2	2.1	---	---	None	---	None
		Nov-Dec	1.2	2.1	---	---	None	---	None
Mardin	C/D								
		Jan-Apr	1.3	2.2	---	---	None	---	None
		Nov-Dec	1.3	2.2	---	---	None	---	None
290582									
Wenonah	B								
		Feb-Apr	4.5	>6.0	---	---	None	Brief	Rare
		December	---	---	---	---	None	Brief	Rare
290591									
Water.									
290592									
Carlisle	A/D								
		Jan-May	0.0	>6.0	0.0-0.5	Very long	Frequent	---	None
		June	0.0	>6.0	0.0-0.5	Very long	Occasional	---	None
		September	0.0	>6.0	0.0-0.5	Very long	Occasional	---	None
		Oct-Dec	0.0	>6.0	0.0-0.5	Very long	Frequent	---	None
Palms	B/D								
		Jan-May	0.0	>6.0	0.0-1.0	Very long	Frequent	---	None
		Nov-Dec	0.0	>6.0	0.0-1.0	Very long	Frequent	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
293892									
Alden, extremely stony	C/D								
		Jan-Apr	0.0	>6.0	0.0-1.0	Very long	Frequent	---	None
		May-Jun	0.0	>6.0	0.0-1.0	Very long	Occasional	---	None
		November	0.0	>6.0	0.0-1.0	Very long	Occasional	---	None
		December	0.0	>6.0	0.0-1.0	Very long	Frequent	---	None
293895									
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
293896									
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
293897									
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
293921									
Erie, extremely stony	D								
		Jan-May	1.0	1.3	---	---	None	---	None
		December	1.0	1.3	---	---	None	---	None
293929									
Hoosic	A								
		Jan-Dec	---	---	---	---	None	---	None
293930									
Hoosic	A								
		Jan-Dec	---	---	---	---	None	---	None
293931									
Hoosic	A								
		Jan-Dec	---	---	---	---	None	---	None
293932									
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
293939									
Middlebury	B/D								
		January	---	---	---	---	None	Very brief	Occasional
		February	1.2	>6.0	---	---	None	Very brief	Occasional
		Mar-Apr	1.2	>6.0	---	---	None	Brief	Occasional
		May	---	---	---	---	None	Brief	Occasional
		November	---	---	---	---	None	Brief	Occasional
		December	---	---	---	---	None	Very brief	Occasional
293943									
Otisville	A								
		Jan-Dec	---	---	---	---	None	---	None
293944									
Otisville	A								
		Jan-Dec	---	---	---	---	None	---	None
293945									
Otisville	A								
		Jan-Dec	---	---	---	---	None	---	None
293946									
Otisville	A								
		Jan-Dec	---	---	---	---	None	---	None
Hoosic	A								
		Jan-Dec	---	---	---	---	None	---	None
293949									
Pits, gravel.									
293961									
Rock outcrop.									
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None
293962									
Rock outcrop.									
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
293963									
Rock outcrop.									
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None
293975									
Suncook	A								
		Jan-Feb	4.5	>6.0	---	---	None	---	None
		Mar-Apr	4.5	>6.0	---	---	None	Extremely brief	Occasional
		May	---	---	---	---	None	Extremely brief	Occasional
293979									
Swartswood, very stony	C								
		Jan-Mar	2.3	2.6	---	---	None	---	None
		Nov-Dec	2.3	2.6	---	---	None	---	None
Mardin	D								
		Jan-Mar	1.8	2.0	---	---	None	---	None
		April	1.8	2.0	---	---	None	---	None
		December	1.8	2.0	---	---	None	---	None
293980									
Swartswood, very stony	C								
		Jan-Mar	2.3	2.6	---	---	None	---	None
		Nov-Dec	2.3	2.6	---	---	None	---	None
Mardin	D								
		Jan-Apr	1.8	2.0	---	---	None	---	None
		December	1.8	2.0	---	---	None	---	None
293981									
Swartswood, very stony	C								
		Jan-Mar	2.3	2.6	---	---	None	---	None
		Nov-Dec	2.3	2.6	---	---	None	---	None
Mardin	D								
		Jan-Apr	1.8	2.0	---	---	None	---	None
		December	1.8	2.0	---	---	None	---	None
293983									
Udifluvents, frequently flooded	A								
		Jan-May	4.0	>6.0	---	---	None	Brief	Frequent
		June	---	---	---	---	None	Brief	Frequent
		October	---	---	---	---	None	Brief	Frequent
		Nov-Dec	4.0	>6.0	---	---	None	Brief	Frequent

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
293983									
Fluvaquents	A/D								
		Jan-Apr	0.0	>6.0	0.0-0.5	Very long	Frequent	Long	Frequent
		May-Jun	0.0	>6.0	0.0-0.5	Very long	Occasional	Long	Frequent
		July	---	---	---	---	---	Long	Frequent
		September	---	---	---	---	---	Long	Frequent
		October	0.0	>6.0	0.0-0.5	Very long	Occasional	Long	Frequent
		Nov-Dec	0.0	>6.0	0.0-0.5	Very long	Frequent	Long	Frequent
293988									
Water.									
295043									
Alden	C/D								
		Jan-Jun	0.0	>6.0	0.0-1.0	Very long	Frequent	---	None
		Nov-Dec	0.0	>6.0	0.0-1.0	Very long	Frequent	---	None
295044									
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
295045									
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
295046									
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
295047									
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
295048									
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop.									

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
295049									
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop.									
295050									
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop.									
295051									
Barbour	B								
		January	4.5	>6.0	---	---	None	---	None
		Feb-Apr	4.5	>6.0	---	---	None	Brief	Rare
295052									
Bash	B/D								
		Jan-Apr	1.0	>6.0	---	---	None	Brief	Occasional
		May	1.0	>6.0	---	---	None	---	None
		December	1.0	>6.0	---	---	None	Brief	Occasional
295053									
Carlisle	A/D								
		Jan-Jun	0.0	>6.0	0.0-0.5	Very long	Frequent	---	None
		Sep-Dec	0.0	>6.0	0.0-0.5	Very long	Frequent	---	None
295054									
Carlisle, ponded	A/D								
		Jan-Jun	0.0	>6.0	0.0-1.0	Very long	Frequent	---	None
		Jul-Aug	---	---	0.0-1.0	Very long	Frequent	---	None
		Sep-Dec	0.0	>6.0	0.0-1.0	Very long	Frequent	---	None
Palms, ponded	B/D								
		Jan-May	0.0	>6.0	0.0-1.0	Very long	Frequent	---	None
		Jun-Oct	---	---	0.0-1.0	Very long	Frequent	---	None
		Nov-Dec	0.0	>6.0	0.0-1.0	Very long	Frequent	---	None
Alden, ponded	C/D								
		Jan-Jun	0.0	>6.0	0.0-1.0	Very long	Frequent	---	None
		Jul-Oct	---	---	0.0-1.0	Very long	Frequent	---	None
		Nov-Dec	0.0	>6.0	0.0-1.0	Very long	Frequent	---	None
295055									
Chenango	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
295056									
Chenango	A								
		Jan-Dec	---	---	---	---	None	---	None
295057									
Chenango	A								
		Jan-Dec	---	---	---	---	None	---	None
295059									
Cheshire, stony	A								
		Jan-Dec	---	---	---	---	None	---	None
295060									
Cheshire, stony	A								
		Jan-Dec	---	---	---	---	None	---	None
295061									
Cheshire, stony	A								
		Jan-Dec	---	---	---	---	None	---	None
295062									
Cheshire, stony	A								
		Jan-Dec	---	---	---	---	None	---	None
295063									
Cheshire, stony	A								
		Jan-Dec	---	---	---	---	None	---	None
295069									
Fluvaquents	B/D								
		Jan-Jun	0.0	>6.0	0.0-0.5	Very long	Occasional	Long	Frequent
		July	---	---	---	---	---	Long	Frequent
		September	---	---	---	---	---	Long	Frequent
		Oct-Dec	0.0	>6.0	0.0-0.5	Very long	Occasional	Long	Frequent
Udifluvents, frequently flooded	A								
		Jan-May	4.0	>6.0	---	---	None	Brief	Frequent
		June	---	---	---	---	None	Brief	Frequent
		October	---	---	---	---	None	Brief	Frequent
		Nov-Dec	4.0	>6.0	---	---	None	Brief	Frequent
295074									
Lackawanna	C								
		Jan-Mar	2.1	2.8	---	---	None	---	None
		Nov-Dec	2.1	2.8	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
295075									
Lackawanna	C								
		Jan-Mar	2.1	2.8	---	---	None	---	None
		Nov-Dec	2.1	2.8	---	---	None	---	None
295076									
Lackawanna	C								
		Jan-Mar	2.1	2.8	---	---	None	---	None
		Nov-Dec	2.1	2.8	---	---	None	---	None
295082									
Lordstown, stony	C								
		Jan-Dec	---	---	---	---	None	---	None
295083									
Lordstown, very stony	C								
		Jan-Dec	---	---	---	---	None	---	None
Arnot, very stony	D								
		Jan-Dec	---	---	---	---	None	---	None
295092									
Morris	D								
		Jan-Mar	1.0	1.7	---	---	None	---	None
		Nov-Dec	1.0	1.7	---	---	None	---	None
295093									
Morris	D								
		Jan-Mar	1.0	1.7	---	---	None	---	None
		Nov-Dec	1.0	1.7	---	---	None	---	None
295094									
Morris	D								
		Jan-Mar	1.0	1.7	---	---	None	---	None
		Nov-Dec	1.0	1.7	---	---	None	---	None
295095									
Neversink	C/D								
		Jan-Apr	0.3	>6.0	---	---	None	---	None
		May	0.3	>6.0	---	---	None	---	None
		December	0.3	>6.0	---	---	None	---	None
295101									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
295102									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None
295103									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
Arnot	D								
		Jan-Dec	---	---	---	---	None	---	None
295105									
Otisville	A								
		Jan-Dec	---	---	---	---	None	---	None
295106									
Otisville	A								
		Jan-Dec	---	---	---	---	None	---	None
295107									
Otisville	A								
		Jan-Dec	---	---	---	---	None	---	None
295109									
Palms	B/D								
		Jan-May	0.0	>6.0	0.0-1.0	Very long	Frequent	---	None
		Nov-Dec	0.0	>6.0	0.0-1.0	Very long	Frequent	---	None
295110									
Philo	B/D								
		Jan-Apr	1.5	>6.0	---	---	None	Brief	Occasional
		May	---	---	---	---	None	Brief	Occasional
		December	1.5	>6.0	---	---	None	Brief	Occasional
295111									
Pits, gravel.									
295112									
Pits, quarry.									
295113									
Pompton	A/D								
		Jan-May	1.2	>6.0	---	---	None	---	None
		Oct-Dec	1.2	>6.0	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
295114									
Pompton	A/D								
		Jan-May	1.2	>6.0	---	---	None	---	None
		Oct-Dec	1.2	>6.0	---	---	None	---	None
295115									
Pope, occasionally flooded	B								
		Jan-Apr	---	---	---	---	None	Brief	Occasional
		Nov-Dec	---	---	---	---	None	Brief	Occasional
295116									
Pope, rarely flooded	B								
		Jan-Dec	---	---	---	---	None	---	Rare
295117									
Raynham, poorly drained	C/D								
		Jan-May	0.5	>6.0	---	---	None	---	None
		Nov-Dec	0.5	>6.0	---	---	None	---	None
Raynham, somewhat poorly drained	C/D								
		Jan-May	1.0	>6.0	---	---	None	---	None
		Nov-Dec	1.0	>6.0	---	---	None	---	None
295118									
Red Hook	B/D								
		Jan-May	0.6	>6.0	---	---	None	---	None
		December	0.6	>6.0	---	---	None	---	None
295119									
Riverhead	A								
		Jan-Dec	---	---	---	---	None	---	None
295120									
Riverhead	A								
		Jan-Dec	---	---	---	---	None	---	None
295121									
Riverhead	A								
		Jan-Dec	---	---	---	---	None	---	None
295122									
Scio	B/D								
		Mar-May	1.5	>6.0	---	---	None	---	None
295123									
Scriba, stony	D								
		Jan-Apr	1.0	1.7	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
295124									
Scriba, stony	D								
		Jan-Apr	1.0	1.7	---	---	None	---	None
295125									
Scriba, extremely stony	D								
		Jan-Apr	1.0	1.7	---	---	None	---	None
Morris, extremely stony	D								
		Jan-Mar	1.0	1.7	---	---	None	---	None
		Nov-Dec	1.0	1.7	---	---	None	---	None
295126									
Suncook	A								
		Jan-Feb	4.5	>6.0	---	---	None	---	None
		Mar-Apr	4.5	>6.0	---	---	None	---	Occasional
		May	---	---	---	---	None	---	Occasional
295129									
Swartswood	C/D								
		Jan-Mar	1.8	2.2	---	---	None	---	None
		Nov-Dec	1.8	2.2	---	---	None	---	None
295130									
Swartswood	C/D								
		Jan-Mar	1.8	2.2	---	---	None	---	None
		Nov-Dec	1.8	2.2	---	---	None	---	None
295131									
Swartswood	C/D								
		Jan-Mar	1.8	2.2	---	---	None	---	None
		Nov-Dec	1.8	2.2	---	---	None	---	None
295132									
Swartswood, stony	C/D								
		Jan-Mar	1.8	2.2	---	---	None	---	None
		Nov-Dec	1.8	2.2	---	---	None	---	None
Lackawanna, stony	C								
		Jan-Mar	2.1	2.8	---	---	None	---	None
		Nov-Dec	2.1	2.8	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
295133									
Swartswood, very stony	C/D								
		Jan-Mar	1.8	2.2	---	---	None	---	None
		Nov-Dec	1.8	2.2	---	---	None	---	None
Lackawanna, very stony	C								
		Jan-Mar	2.1	2.8	---	---	None	---	None
		Nov-Dec	2.1	2.8	---	---	None	---	None
295134									
Swartswood, very stony	C/D								
		Jan-Mar	1.8	2.2	---	---	None	---	None
		Nov-Dec	1.8	2.2	---	---	None	---	None
Lackawanna, very stony	C								
		Jan-Mar	2.1	2.8	---	---	None	---	None
		Nov-Dec	2.1	2.8	---	---	None	---	None
295136									
Tuller, somewhat poorly drained	D								
		Jan-May	1.0	1.0	---	---	None	---	None
		December	1.0	1.0	---	---	None	---	None
Tuller, poorly drained	D								
		Jan-Jun	0.5	1.0	---	---	None	---	None
		December	0.5	1.0	---	---	None	---	None
Rock outcrop.									
295137									
Tunkhannock	A								
		Jan-Dec	---	---	---	---	None	---	None
295138									
Tunkhannock	A								
		Jan-Dec	---	---	---	---	None	---	None
295139									
Tunkhannock	A								
		Jan-Dec	---	---	---	---	None	---	None
295140									
Tunkhannock	A								
		Jan-Dec	---	---	---	---	None	---	None
295141									
Tunkhannock	A								
		Jan-Dec	---	---	---	---	None	---	None
Otisville	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
295142									
Tunkhannock	A								
		Jan-Dec	---	---	---	---	None	---	None
Otisville	A								
		Jan-Dec	---	---	---	---	None	---	None
295143									
Udorthents	---								
		Jan-Jun	4.0	>6.0	---	---	None	---	None
		Nov-Dec	4.0	>6.0	---	---	None	---	None
295144									
Unadilla	B								
		Jan-Dec	---	---	---	---	None	---	None
295145									
Unadilla	B								
		Jan-Dec	---	---	---	---	None	---	None
295146									
Valois	B								
		Jan-Dec	---	---	---	---	None	---	None
295147									
Valois	B								
		Jan-Dec	---	---	---	---	None	---	None
295148									
Valois	B								
		Jan-Dec	---	---	---	---	None	---	None
295149									
Valois	B								
		Jan-Dec	---	---	---	---	None	---	None
295150									
Valois	B								
		Jan-Dec	---	---	---	---	None	---	None
295151									
Water.									

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
295153									
Wayland	C/D								
		Jan-Jun	0.0	>6.0	0.0-0.5	Very long	Frequent	Long	Frequent
		Nov-Dec	0.0	>6.0	0.0-0.5	Very long	Frequent	Long	Frequent
295154									
Wellsboro	D								
		Jan-Mar	1.6	1.9	---	---	None	---	None
		Nov-Dec	1.6	1.9	---	---	None	---	None
295155									
Wellsboro	D								
		Jan-Mar	1.6	1.9	---	---	None	---	None
		Nov-Dec	1.6	1.9	---	---	None	---	None
295156									
Wellsboro	D								
		Jan-Mar	1.6	1.9	---	---	None	---	None
		Nov-Dec	1.6	1.9	---	---	None	---	None
295157									
Wellsboro, extremely stony	D								
		Jan-Mar	1.6	1.9	---	---	None	---	None
		Nov-Dec	1.6	1.9	---	---	None	---	None
Wurtsboro, extremely stony	C/D								
		Jan-Mar	1.3	2.3	---	---	None	---	None
		Nov-Dec	1.3	2.3	---	---	None	---	None
295162									
Wurtsboro, stony	C/D								
		Jan-Mar	1.3	2.3	---	---	None	---	None
		Nov-Dec	1.3	2.3	---	---	None	---	None
295163									
Wurtsboro, stony	C/D								
		Jan-Mar	1.3	2.3	---	---	None	---	None
		Nov-Dec	1.3	2.3	---	---	None	---	None
295164									
Wurtsboro, stony	C/D								
		Jan-Mar	1.3	2.3	---	---	None	---	None
		Nov-Dec	1.3	2.3	---	---	None	---	None
296588									
Arnot	C/D								
		Jan-Dec	---	---	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
296589									
Arnot	C/D								
		Jan-Dec	---	---	---	---	None	---	None
296590									
Arnot	C/D								
		Jan-Dec	---	---	---	---	None	---	None
296591									
Barbour	B								
		Jan-Apr	4.5	>6.0	---	---	None	Very brief	Occasional
		December	---	---	---	---	None	Very brief	Occasional
296592									
Basher	B								
		Jan-Apr	1.8	>6.0	---	---	None	Brief	Occasional
		May	1.8	>6.0	---	---	None	---	None
		December	---	---	---	---	None	Brief	Occasional
296593									
Fluvents	B								
		Jan-Apr	3.0	>6.0	---	---	None	Brief	Frequent
		May-Jul	---	---	---	---	None	Brief	Frequent
		Sep-Oct	---	---	---	---	None	Brief	Frequent
		Nov-Dec	3.0	>6.0	---	---	None	Brief	Frequent
Fluvaquents	D								
		Jan-May	0.5	>6.0	---	---	None	Brief	Frequent
		Jun-Jul	---	---	---	---	None	Brief	Frequent
		September	---	---	---	---	None	Brief	Frequent
		Oct-Dec	0.5	>6.0	---	---	None	Brief	Frequent
296594									
Holly	B/D								
		Jan-May	0.5	>6.0	0.0-0.8	Long	Frequent	Brief	Frequent
		June	---	---	0.0-0.8	Brief	Rare	---	None
		Sep-Oct	---	---	0.0-0.8	Brief	Rare	---	None
		November	---	---	0.0-0.8	Long	Frequent	Brief	Frequent
		December	0.5	>6.0	0.0-0.8	Long	Frequent	Brief	Frequent
296595									
Linden	B								
		Jan-Mar	4.5	>6.0	---	---	None	---	Rare
		Nov-Dec	4.5	>6.0	---	---	None	---	Rare

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
296596									
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
296599									
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
296600									
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
296601									
Medihemists	D								
		Jan-Jul	0.0	>6.0	0.0-2.0	Very long	Frequent	---	None
		Sep-Dec	0.0	>6.0	0.0-2.0	Very long	Frequent	---	None
Medifibrists	D								
		Jan-Jul	0.0	>6.0	0.0-2.0	Very long	Frequent	---	None
		Sep-Dec	0.0	>6.0	0.0-2.0	Very long	Frequent	---	None
296602									
Mardin	C								
		Jan-Feb	1.4	1.7	---	---	None	---	None
		Mar-Apr	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None
296603									
Mardin	C								
		Jan-Feb	1.4	1.7	---	---	None	---	None
		Mar-Apr	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None
296604									
Mardin	C								
		Jan-Feb	1.4	1.7	---	---	None	---	None
		Mar-Apr	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
296605									
Mardin	C								
		Jan-Feb	1.4	1.7	---	---	None	---	None
		Mar-Apr	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None
296606									
Mardin	C								
		Jan-Feb	1.4	1.7	---	---	None	---	None
		Mar-Apr	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None
296608									
Morris	C								
		Jan-Feb	0.9	1.4	---	---	None	---	None
		Mar-Apr	0.5	1.4	---	---	None	---	None
		May	0.9	1.4	---	---	None	---	None
		December	0.9	1.4	---	---	None	---	None
296609									
Morris	C								
		Jan-Feb	0.9	1.4	---	---	None	---	None
		Mar-Apr	0.5	1.4	---	---	None	---	None
		May	0.9	1.4	---	---	None	---	None
		December	0.9	1.4	---	---	None	---	None
296610									
Morris	C								
		Jan-Feb	0.9	1.4	---	---	None	---	None
		Mar-Apr	0.5	1.4	---	---	None	---	None
		May	0.9	1.4	---	---	None	---	None
		December	0.9	1.4	---	---	None	---	None
296611									
Morris	C								
		Jan-Feb	0.9	1.4	---	---	None	---	None
		Mar-Apr	0.5	1.4	---	---	None	---	None
		May	0.9	1.4	---	---	None	---	None
		December	0.9	1.4	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
296613									
Norwich	D								
		Jan-Feb	0.2	1.3	0.0-0.5	Long	Occasional	---	None
		Mar-Apr	0.0	1.3	0.0-0.5	Long	Occasional	---	None
		May	0.2	1.3	0.0-0.5	Long	Occasional	---	None
		June	0.2	1.3	---	---	None	---	None
		November	0.2	1.3	---	---	None	---	None
		December	0.2	1.3	0.0-0.5	Long	Occasional	---	None
Chippewa	D								
		Jan-Feb	0.3	1.3	---	---	None	---	None
		Mar-Apr	0.0	1.3	---	---	None	---	None
		May	0.3	1.3	---	---	None	---	None
		Nov-Dec	0.3	1.3	---	---	None	---	None
296614									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
296615									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
296616									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
296617									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
296618									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
296619									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
296621									
Quarries	---								
		Jan-Dec	---	---	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
296622									
Rexford, poorly drained----------	C								
		Jan-Feb	0.0	0.8	---	---	None	---	None
		Mar-Apr	0.0	0.3	---	---	None	---	None
		May	0.0	0.7	---	---	None	---	None
		December	0.0	0.8	---	---	None	---	None
Rexford, somewhat poorly drained-	C								
		Jan-Feb	1.0	1.5	---	---	None	---	None
		Mar-Apr	0.5	1.5	---	---	None	---	None
		May	0.8	1.5	---	---	None	---	None
		December	1.0	1.5	---	---	None	---	None
296623									
Rock outcrop----------	C								
		Jan-Dec	---	---	---	---	None	---	None
Arnot----------	C/D								
		Jan-Dec	---	---	---	---	None	---	None
296625									
Swartswood----------	C								
		March	2.3	2.4	---	---	None	---	None
		April	2.3	2.4	---	---	None	---	None
296628									
Swartswood----------	C								
		March	2.3	2.4	---	---	None	---	None
		April	2.3	2.4	---	---	None	---	None
296630									
Volusia----------	C								
		Jan-Feb	0.9	1.2	---	---	None	---	None
		Mar-Apr	0.5	1.2	---	---	None	---	None
		May	0.9	1.2	---	---	None	---	None
		December	0.9	1.2	---	---	None	---	None
296632									
Volusia----------	C								
		Jan-Feb	0.9	1.2	---	---	None	---	None
		Mar-Apr	0.5	1.2	---	---	None	---	None
		May	0.9	1.2	---	---	None	---	None
		December	0.9	1.2	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
296633									
Volusia	C								
		Jan-Feb	0.9	1.2	---	---	None	---	None
		Mar-Apr	0.5	1.2	---	---	None	---	None
		May	0.9	1.2	---	---	None	---	None
		December	0.9	1.2	---	---	None	---	None
296634									
Wellsboro	C								
		Jan-Feb	1.4	1.7	---	---	None	---	None
		Mar-Apr	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None
296635									
Wellsboro	C								
		Jan-Feb	1.4	1.7	---	---	None	---	None
		Mar-Apr	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None
296636									
Wellsboro	C								
		Jan-Feb	1.4	1.7	---	---	None	---	None
		Mar-Apr	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None
296637									
Wellsboro	C								
		Jan-Feb	1.4	1.7	---	---	None	---	None
		Mar-Apr	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None
296638									
Wellsboro	C								
		Jan-Feb	1.4	1.7	---	---	None	---	None
		Mar-Apr	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
296639									
Wellsboro	C								
		Jan-Feb	1.4	1.7	---	---	None	---	None
		Mar-Apr	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None
Mardin	C								
		Jan-Feb	1.4	1.7	---	---	None	---	None
		Mar-Apr	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None
296640									
Wyoming	A								
		Jan-Dec	---	---	---	---	None	---	None
296641									
Wyoming	A								
		Jan-Dec	---	---	---	---	None	---	None
296642									
Wyoming	A								
		Jan-Dec	---	---	---	---	None	---	None
296643									
Wyoming	A								
		Jan-Dec	---	---	---	---	None	---	None
296644									
Water.									
297185									
Edgemere	D								
		Jan-May	0.0	2.0	0.0-0.5	Very long	Frequent	---	None
		Nov-Dec	0.0	2.0	0.0-0.5	Very long	Frequent	---	None
Shohola	C								
		Jan-May	1.0	2.0	---	---	None	---	None
		Nov-Dec	1.0	2.0	---	---	None	---	None
297186									
Edgemere	D								
		Jan-May	0.0	2.0	0.0-0.5	Very long	Occasional	---	None
		Nov-Dec	0.0	2.0	0.0-0.5	Very long	Occasional	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
297188									
Manlius	C								
		Jan-Dec	---	---	---	---	None	---	None
Arnot	C/D								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
297189									
Manlius	C								
		Jan-Dec	---	---	---	---	None	---	None
Arnot	C/D								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
297190									
Braceville	C								
		Jan-Apr	1.7	2.2	---	---	None	---	None
		Nov-Dec	1.7	2.2	---	---	None	---	None
297191									
Wyalusing	D								
		Jan-May	0.3	>6.0	---	---	None	Very brief	Frequent
		June	0.3	>6.0	---	---	None	---	None
		Sep-Oct	0.3	>6.0	---	---	None	---	None
		Nov-Dec	0.3	>6.0	---	---	None	Very brief	Frequent
297192									
Pope	B								
		Jan-May	---	---	---	---	None	Brief	Frequent
		Jun-Nov	---	---	---	---	None	Brief	Occasional
		December	---	---	---	---	None	Brief	Frequent
297193									
Paupack	D								
		Jan-Dec	0.0	>6.0	0.0-1.0	Very long	Frequent	---	None
297194									
Morris	C								
		Jan-Feb	0.9	1.4	---	---	None	---	None
		Mar-Apr	0.5	1.4	---	---	None	---	None
		May	0.9	1.4	---	---	None	---	None
		December	0.9	1.4	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
297196									
Freetown	D								
		Jan-May	0.0	>6.0	0.0-0.5	Long	Frequent	---	None
		Jun-Oct	0.5	>6.0	0.0-0.5	Long	Occasional	---	None
		Nov-Dec	0.0	>6.0	0.0-0.5	Long	Frequent	---	None
297199									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
297200									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
297201									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
297202									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
Arnot	C/D								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
297203									
Delaware	B								
		Jan-Dec	---	---	---	---	None	Brief	Rare
297204									
Delaware	B								
		Jan-Dec	---	---	---	---	None	Brief	Rare
297205									
Delaware	B								
		Jan-Dec	---	---	---	---	None	Brief	Rare
297207									
Wurtsboro	C								
		Jan-Apr	1.6	1.8	---	---	None	---	None
		Nov-Dec	1.6	1.8	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
297208									
Wurtsboro	C								
		Jan-Apr	1.6	1.8	---	---	None	---	None
		Nov-Dec	1.6	1.8	---	---	None	---	None
297209									
Philo	B								
		Jan-Apr	2.3	>6.0	---	---	None	Brief	Frequent
		May	---	---	---	---	None	Brief	Frequent
		Jun-Nov	---	---	---	---	None	Brief	Occasional
		December	2.3	>6.0	---	---	None	Brief	Frequent
297210									
Barbour	B								
		Jan-Apr	4.5	>6.0	---	---	None	Brief	Occasional
		May	---	---	---	---	None	Brief	Occasional
		Jun-Nov	---	---	---	---	None	Brief	Rare
		December	---	---	---	---	None	Brief	Occasional
297211									
Wellsboro	C								
		Jan-Feb	1.4	1.7	---	---	None	---	None
		Mar-Apr	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None
297212									
Wellsboro	C								
		Jan-Feb	1.4	1.7	---	---	None	---	None
		Mar-Apr	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None
297213									
Wellsboro	C								
		Jan-Feb	1.4	1.7	---	---	None	---	None
		Mar-Apr	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None
297215									
Wellsboro	C								
		Jan-Feb	1.4	1.7	---	---	None	---	None
		Mar-Apr	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
297216									
Wurtsboro	C								
		Jan-Apr	1.6	1.8	---	---	None	---	None
		Nov-Dec	1.6	1.8	---	---	None	---	None
297217									
Wurtsboro	C								
		Jan-Apr	1.6	1.8	---	---	None	---	None
		Nov-Dec	1.6	1.8	---	---	None	---	None
297218									
Wurtsboro	C								
		Jan-Apr	1.6	1.8	---	---	None	---	None
		Nov-Dec	1.6	1.8	---	---	None	---	None
297221									
Lackawanna	C								
		Mar-Apr	2.3	2.4	---	---	None	---	None
297223									
Lackawanna	C								
		Mar-Apr	2.3	2.4	---	---	None	---	None
297224									
Swartswood	C								
		Mar-Apr	2.5	2.7	---	---	None	---	None
297225									
Swartswood	C								
		Mar-Apr	2.5	2.7	---	---	None	---	None
297226									
Swartswood	C								
		Mar-Apr	2.5	2.7	---	---	None	---	None
297227									
Arnot	C/D								
		Jan-Dec	---	---	---	---	None	---	None
297228									
Arnot	C/D								
		Jan-Dec	---	---	---	---	None	---	None
297229									
Wyoming	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
297230									
Wyoming	A								
		Jan-Dec	---	---	---	---	None	---	None
297231									
Wyoming	A								
		Jan-Dec	---	---	---	---	None	---	None
297236									
Suncook	A								
		Jan-May	---	---	---	---	None	Brief	Occasional
		Jun-Nov	---	---	---	---	None	Brief	Rare
		December	---	---	---	---	None	Brief	Occasional
297239									
Mardin	C								
		Jan-Mar	1.4	1.7	---	---	None	---	None
		April	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None
297240									
Mardin	C								
		Jan-Mar	1.4	1.7	---	---	None	---	None
		April	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None
297241									
Unadilla	B								
		Jan-Dec	---	---	---	---	None	---	None
297242									
Shohola	C								
		Jan-May	1.0	2.0	---	---	None	---	None
		Nov-Dec	1.0	2.0	---	---	None	---	None
Edgemere	D								
		Jan-May	0.0	2.0	0.0-0.5	Very long	Occasional	---	None
		Nov-Dec	0.0	2.0	0.0-0.5	Very long	Occasional	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
297243									
Shohola	C								
		Jan-May	1.0	2.0	---	---	None	---	None
		Nov-Dec	1.0	2.0	---	---	None	---	None
Edgemere	D								
		Jan-May	0.0	2.0	0.0-0.5	Very long	Occasional	---	None
		Nov-Dec	0.0	2.0	0.0-0.5	Very long	Occasional	---	None
297244									
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
Swartswood	C								
		Mar-Apr	2.5	2.7	---	---	None	---	None
297245									
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
Swartswood	C								
		Mar-Apr	2.5	2.7	---	---	None	---	None
297246									
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
Swartswood	C								
		Mar-Apr	2.5	2.7	---	---	None	---	None
297247									
Chenango	A								
		Jan-Dec	---	---	---	---	None	---	None
297248									
Chenango	A								
		Jan-Dec	---	---	---	---	None	---	None
297249									
Chenango	A								
		Jan-Dec	---	---	---	---	None	---	None
297250									
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None
297251									
Lordstown	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 19.--Water Features--Continued

Map unit symbol and soil name	Hydrologic group	Months	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			Ft	*Ft*	*Ft*				
297253									
Craigsville	B								
		Jan-Mar	6.0	>6.0	---	---	None	Very brief	Occasional
		Apr-May	---	---	---	---	None	Very brief	Occasional
		Jun-Nov	---	---	---	---	None	Very brief	Rare
		December	6.0	>6.0	---	---	None	Very brief	Occasional
Wyoming	A								
		Jan-Dec	---	---	---	---	None	---	None
297254									
Pits, shale	D								
		Jan-Dec	---	---	---	---	None	---	None
Pits, gravel	A								
		Jan-Dec	---	---	---	---	None	---	None
297257									
Water.									
309440									
Edgemere	D								
		Jan-May	0.0	2.0	0.0-0.5	Very long	Frequent	---	None
		Nov-Dec	0.0	2.0	0.0-0.5	Very long	Frequent	---	None
Shohola	C								
		Jan-May	1.0	2.0	---	---	None	---	None
		Nov-Dec	1.0	2.0	---	---	None	---	None
319863									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None
Arnot	C/D								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
319865									
Wellsboro	C								
		Jan-Feb	1.4	1.7	---	---	None	---	None
		Mar-Apr	1.2	1.7	---	---	None	---	None
		May	1.4	1.7	---	---	None	---	None
		December	1.4	1.7	---	---	None	---	None
741008									
Oquaga	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 20.--Soil Features

[See text for definitions of terms used in this table. Absence of an entry indicates that data were not estimated]

Map unit symbol and soil name	Restrictive layer				Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness		Uncoated steel	Concrete
		In	*In*				
290457							
Barbour	No restriction	---	---	---	Moderate	Low	Moderate
290461							
Bath	Fragipan	26-38	---	Noncemented	Moderate	Moderate	Moderate
290465							
Cadosia	No restriction	---	---	---	Moderate	Low	Moderate
290466							
Cadosia	No restriction	---	---	---	Moderate	Low	Moderate
290468							
Chenango	No restriction	---	---	---	Moderate	Low	Moderate
290483							
Fluvaquents	No restriction	---	---	---	High	High	High
Udifluvents	No restriction	---	---	---	Moderate	High	High
290484							
Halcott	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
Mongaup	Lithic bedrock	20-40	---	Indurated	Moderate	Low	Moderate
Vly	Lithic bedrock	20-40	---	Indurated	Moderate	Low	Moderate
290485							
Halcott	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
Mongaup	Lithic bedrock	20-40	---	Indurated	Moderate	Low	Moderate
Vly	Lithic bedrock	20-40	---	Indurated	Moderate	Low	Moderate
290487							
Lackawanna	Fragipan	20-36	---	Noncemented	Moderate	Low	Moderate
290488							
Lackawanna	Fragipan	20-36	---	Noncemented	Moderate	Low	Moderate
290489							
Lackawanna	Fragipan	20-36	---	Noncemented	Moderate	Low	Moderate
290490							
Lackawanna	Fragipan	20-36	---	Noncemented	Moderate	Low	Moderate
290491							
Lackawanna	Fragipan	20-36	---	Noncemented	Moderate	Low	Moderate
Bath	Fragipan	26-38	---	Noncemented	Moderate	Moderate	Moderate
290492							
Lackawanna	Fragipan	20-36	---	Noncemented	Moderate	Low	Moderate
Bath	Fragipan	26-38	---	Noncemented	Moderate	Moderate	Moderate
290493							
Lackawanna	Fragipan	20-36	---	Noncemented	Moderate	Low	Moderate

Table 20.--Soil Features--Continued

Map unit symbol and soil name	Restrictive layer				Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness		Uncoated steel	Concrete
		In	*In*				
290493							
Bath	Fragipan	26-38	---	Noncemented	Moderate	Moderate	Moderate
290506							
Lordstown	Lithic bedrock	20-40	---	Indurated	Moderate	Low	High
290507							
Lordstown	Lithic bedrock	20-40	---	Indurated	Moderate	Low	High
290509							
Lordstown	Lithic bedrock	20-40	---	Indurated	Moderate	Low	High
290510							
Maplecrest	No restriction	---	---	---	Moderate	Low	High
290511							
Maplecrest	No restriction	---	---	---	Moderate	Low	High
290512							
Maplecrest	No restriction	---	---	---	Moderate	Low	High
290514							
Mardin	Fragipan	15-26	---	Noncemented	Moderate	Moderate	Low
290515							
Mardin	Fragipan	15-26	---	Noncemented	Moderate	Moderate	Low
290519							
Mongaup	Lithic bedrock	20-40	---	Indurated	Moderate	Low	Moderate
290522							
Morris	Fragipan	10-20	---	Noncemented	High	High	Moderate
290523							
Morris	Fragipan	10-20	---	Noncemented	High	High	Moderate
290525							
Morris	Fragipan	10-20	---	Noncemented	High	High	Moderate
Volusia	Fragipan	10-22	---	Noncemented	High	High	Moderate
290526							
Norchip	Fragipan	10-20	---	Noncemented	High	High	Moderate
290535							
Oquaga	Lithic bedrock	20-40	---	Indurated	Moderate	Low	Moderate
290536							
Oquaga	Lithic bedrock	20-40	---	Indurated	Moderate	Low	Moderate
290539							
Oquaga	Lithic bedrock	20-40	---	Indurated	Moderate	Low	Moderate
290540							
Oquaga	Lithic bedrock	20-40	---	Indurated	Moderate	Low	Moderate
Lordstown	Lithic bedrock	20-40	---	Indurated	Moderate	Low	High
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
290541							
Oquaga	Lithic bedrock	20-40	---	Indurated	Moderate	Low	Moderate

Table 20.--Soil Features--Continued

Map unit symbol and soil name	Restrictive layer				Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness		Uncoated steel	Concrete
		In	*In*				
290541							
Lordstown	Lithic bedrock	20-40	---	Indurated	Moderate	Low	High
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
290542							
Oquaga	Lithic bedrock	20-40	---	Indurated	Moderate	Low	Moderate
Lordstown	Lithic bedrock	20-40	---	Indurated	Moderate	Low	High
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
290544							
Pits, Gravel	No restriction	---	---	---	None	---	---
290546							
Raypol	No restriction	---	---	---	High	Moderate	Moderate
290547							
Red Hook	No restriction	---	---	---	High	High	Moderate
290548							
Riverhead	No restriction	---	---	---	Moderate	Low	High
290549							
Riverhead	No restriction	---	---	---	Moderate	Low	High
290555							
Torull	Lithic bedrock	10-20	---	Indurated	High	High	High
Gretor	Lithic bedrock	20-40	---	Indurated	High	High	High
290556							
Tunkhannock	No restriction	---	---	---	Low	Low	High
290562							
Tunkhannock	No restriction	---	---	---	Low	Low	High
Chenango	No restriction	---	---	---	Moderate	Low	Moderate
290563							
Udorthents	No restriction	---	---	---	Moderate	Moderate	Moderate
290565							
Unadilla	No restriction	---	---	---	High	Low	Moderate
290567							
Valois	No restriction	---	---	---	Moderate	Low	High
290568							
Valois	No restriction	---	---	---	Moderate	Low	High
290569							
Valois	No restriction	---	---	---	Moderate	Low	High
290570							
Valois	No restriction	---	---	---	Moderate	Low	High
290576							
Volusia	Fragipan	10-22	---	Noncemented	High	High	Moderate
290578							
Wellsboro	Fragipan	15-26	---	Noncemented	High	High	Moderate

Table 20.--Soil Features--Continued

Map unit symbol and soil name	Restrictive layer				Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness		Uncoated steel	Concrete
		In	*In*				
290579							
Wellsboro	Fragipan	15-26	---	Noncemented	High	High	Moderate
290581							
Wellsboro	Fragipan	15-26	---	Noncemented	High	High	Moderate
Mardin	Fragipan	15-26	---	Noncemented	Moderate	Moderate	Low
290582							
Wenonah	No restriction	---	---	---	Moderate	Low	High
290591							
Water.							
290592							
Carlisle	No restriction	---	---	---	High	High	Low
Palms	No restriction	---	---	---	High	High	Moderate
293892							
Alden, extremely stony	No restriction	---	---	---	High	High	Low
293895							
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
Lordstown	Lithic bedrock	20-40	---	Indurated	Moderate	Low	High
293896							
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
Lordstown	Lithic bedrock	20-40	---	Indurated	Moderate	Low	High
293897							
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
Lordstown	Lithic bedrock	20-40	---	Indurated	Moderate	Low	High
293921							
Erie, extremely stony	Fragipan	10-21	---	---	High	High	Low
293929							
Hoosic	No restriction	---	---	---	Low	Low	High
293930							
Hoosic	No restriction	---	---	---	Low	Low	High
293931							
Hoosic	No restriction	---	---	---	Low	Low	High
293932							
Lordstown	Lithic bedrock	20-40	---	Indurated	Moderate	Low	High
293939							
Middlebury	No restriction	---	---	---	High	Moderate	Low
293943							
Otisville	No restriction	---	---	---	Low	Low	High
293944							
Otisville	No restriction	---	---	---	Low	Low	High
293945							
Otisville	No restriction	---	---	---	Low	Low	High

Table 20.--Soil Features--Continued

Map unit symbol and soil name	Restrictive layer				Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness		Uncoated steel	Concrete
		In	*In*				
293946							
Otisville	No restriction	---	---	---	Low	Low	High
Hoosic	No restriction	---	---	---	Low	Low	High
293949							
Pits, gravel	No restriction	---	---	---	---	---	---
293961							
Rock outcrop	Lithic bedrock	0	---	Indurated	---	---	---
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
293962							
Rock outcrop	Lithic bedrock	0	---	Indurated	---	---	---
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
293963							
Rock outcrop	Lithic bedrock	0	---	Indurated	---	---	---
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
293975							
Suncook	No restriction	---	---	---	Low	Low	High
293979							
Swartswood, very stony	Fragipan	20-36	---	---	Moderate	Low	High
Mardin	Fragipan	14-26	---	---	Moderate	Moderate	Low
293980							
Swartswood, very stony	Fragipan	20-36	---	---	Moderate	Low	High
Mardin	Fragipan	14-26	---	---	Moderate	Moderate	Low
293981							
Swartswood, very stony	Fragipan	20-36	---	---	Moderate	Low	High
Mardin	Fragipan	14-26	---	---	Moderate	Moderate	Low
293983							
Udifluvents, frequently flooded	No restriction	---	---	---	Moderate	High	High
Fluvaquents	No restriction	---	---	---	High	High	High
293988							
Water.							
295043							
Alden	No restriction	---	---	---	High	High	Low
295044							
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
Lordstown	Lithic bedrock	20-40	---	Indurated	Moderate	Low	High
295045							
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
Lordstown	Lithic bedrock	20-40	---	Indurated	Moderate	Low	High

Table 20.--Soil Features--Continued

Map unit symbol and soil name	Restrictive layer				Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness		Uncoated steel	Concrete
		In	*In*				
295046							
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
Oquaga	Lithic bedrock	20-40	---	Indurated	Moderate	Low	Moderate
295047							
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
Oquaga	Lithic bedrock	20-40	---	Indurated	Moderate	Low	Moderate
295048							
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
Rock outcrop	Lithic bedrock	0	---	Indurated	---	---	---
295049							
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
Rock outcrop	Lithic bedrock	0	---	Indurated	---	---	---
295050							
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
Rock outcrop	Lithic bedrock	0	---	Indurated	---	---	---
295051							
Barbour	No restriction	---	---	---	Moderate	Low	Moderate
295052							
Bash	No restriction	---	---	---	High	Moderate	Moderate
295053							
Carlisle	No restriction	---	---	---	High	High	Low
295054							
Carlisle, ponded	No restriction	---	---	---	High	High	Low
Palms, ponded	No restriction	---	---	---	High	High	Moderate
Alden, ponded	No restriction	---	---	---	High	High	Low
295055							
Chenango	No restriction	---	---	---	Moderate	Low	Moderate
295056							
Chenango	No restriction	---	---	---	Moderate	Low	Moderate
295057							
Chenango	No restriction	---	---	---	Moderate	Low	Moderate
295059							
Cheshire, stony	No restriction	---	---	---	Low	Low	High
295060							
Cheshire, stony	No restriction	---	---	---	Low	Low	High
295061							
Cheshire, stony	No restriction	---	---	---	Low	Low	High
295062							
Cheshire, stony	No restriction	---	---	---	Low	Low	High

Table 20.--Soil Features--Continued

Map unit symbol and soil name	Restrictive layer				Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness		Uncoated steel	Concrete
		In	*In*				
295063							
Cheshire, stony	No restriction	---	---	---	Low	Low	High
295069							
Fluvaquents	No restriction	---	---	---	High	High	High
Udifluvents, frequently flooded	No restriction	---	---	---	Moderate	High	High
295074							
Lackawanna	Fragipan	17-36	---	---	Moderate	Low	Moderate
295075							
Lackawanna	Fragipan	17-36	---	---	Moderate	Low	Moderate
295076							
Lackawanna	Fragipan	17-36	---	---	Moderate	Low	Moderate
295082							
Lordstown, stony	Lithic bedrock	20-40	---	Indurated	Moderate	Low	High
295083							
Lordstown, very stony	Lithic bedrock	20-40	---	Indurated	Moderate	Low	High
Arnot, very stony	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
295092							
Morris	Fragipan	10-22	---	---	High	High	Moderate
295093							
Morris	Fragipan	10-22	---	---	High	High	Moderate
295094							
Morris	Fragipan	10-22	---	---	High	High	Moderate
295095							
Neversink	No restriction	---	---	---	High	High	High
295101							
Oquaga	Lithic bedrock	20-40	---	Indurated	Moderate	Low	Moderate
295102							
Oquaga	Lithic bedrock	20-40	---	Indurated	Moderate	Low	Moderate
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
295103							
Oquaga	Lithic bedrock	20-40	---	Indurated	Moderate	Low	Moderate
Arnot	Lithic bedrock	10-20	---	Indurated	Moderate	Low	High
295105							
Otisville	No restriction	---	---	---	Low	Low	High
295106							
Otisville	No restriction	---	---	---	Low	Low	High
295107							
Otisville	No restriction	---	---	---	Low	Low	High
295109							
Palms	No restriction	---	---	---	High	High	Moderate

Table 20.--Soil Features--Continued

Map unit symbol and soil name	Restrictive layer				Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness		Uncoated steel	Concrete
		In	*In*				
295110							
Philo	No restriction	---	---	---	Moderate	Low	High
295111							
Pits, gravel	No restriction	---	---	---	---	---	---
295112							
Pits, quarry	No restriction	---	---	---	---	---	---
295113							
Pompton	No restriction	---	---	---	High	Moderate	High
295114							
Pompton	No restriction	---	---	---	High	Moderate	High
295115							
Pope, occasionally flooded	No restriction	---	---	---	Moderate	Low	High
295116							
Pope, rarely flooded	No restriction	---	---	---	Moderate	Low	High
295117							
Raynham, poorly drained	No restriction	---	---	---	High	High	Moderate
295118							
Red Hook	No restriction	---	---	---	High	High	Moderate
295119							
Riverhead	No restriction	---	---	---	Moderate	Low	High
295120							
Riverhead	No restriction	---	---	---	Moderate	Low	High
295121							
Riverhead	No restriction	---	---	---	Moderate	Low	High
295122							
Scio	No restriction	---	---	---	High	Moderate	Moderate
295123							
Scriba, stony	Fragipan	12-20	---	---	High	Moderate	Moderate
295124							
Scriba, stony	Fragipan	12-20	---	---	High	Moderate	Moderate
295125							
Scriba, extremely stony	Fragipan	12-20	---	---	High	Moderate	Moderate
Morris, extremely stony	Fragipan	10-22	---	---	High	High	Moderate
295126							
Suncook	No restriction	---	---	---	Low	Low	High
295129							
Swartswood	Fragipan	22-30	---	---	Moderate	Low	High
295130							
Swartswood	Fragipan	22-30	---	---	Moderate	Low	High
295131							
Swartswood	Fragipan	22-30	---	---	Moderate	Low	High

Table 20.--Soil Features--Continued

Map unit symbol and soil name	Restrictive layer				Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness		Uncoated steel	Concrete
		In	*In*				
295132							
Swartswood, stony	Fragipan	22-30	---	---	Moderate	Low	High
Lackawanna, stony	Fragipan	17-36	---	---	Moderate	Low	Moderate
295133							
Swartswood, very stony	Fragipan	22-30	---	---	Moderate	Low	High
Lackawanna, very stony	Fragipan	17-36	---	---	Moderate	Low	Moderate
295134							
Swartswood, very stony	Fragipan	22-30	---	---	Moderate	Low	High
Lackawanna, very stony	Fragipan	17-36	---	---	Moderate	Low	Moderate
295136							
Tuller, somewhat poorly drained	Lithic bedrock	10-20	---	Indurated	High	High	High
Tuller, poorly drained	Lithic bedrock	10-20	---	Indurated	High	High	High
295137							
Tunkhannock	No restriction	---	---	---	Low	Low	High
295138							
Tunkhannock	No restriction	---	---	---	Low	Low	High
295139							
Tunkhannock	No restriction	---	---	---	Low	Low	High
295140							
Tunkhannock	No restriction	---	---	---	Low	Low	High
295141							
Tunkhannock	No restriction	---	---	---	Low	Low	High
Otisville	No restriction	---	---	---	Low	Low	High
295142							
Tunkhannock	No restriction	---	---	---	Low	Low	High
Otisville	No restriction	---	---	---	Low	Low	High
295143							
Udorthents	No restriction	---	---	---	High	---	---
295144							
Unadilla	No restriction	---	---	---	High	Low	Moderate
295145							
Unadilla	No restriction	---	---	---	High	Low	Moderate
295146							
Valois	No restriction	---	---	---	Moderate	Low	High
295147							
Valois	No restriction	---	---	---	Moderate	Low	High
295148							
Valois	No restriction	---	---	---	Moderate	Low	High
295149							
Valois	No restriction	---	---	---	Moderate	Low	High

Table 20.--Soil Features--Continued

Map unit symbol and soil name	Restrictive layer				Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness		Uncoated steel	Concrete
		In	*In*				
295150							
Valois	No restriction	---	---	---	Moderate	Low	High
295151							
Water.							
295153							
Wayland	No restriction	---	---	---	High	High	Low
295154							
Wellsboro	Fragipan	12-30	---	---	High	High	Moderate
295155							
Wellsboro	Fragipan	12-30	---	---	High	High	Moderate
295156							
Wellsboro	Fragipan	12-30	---	---	High	High	Moderate
295157							
Wellsboro, extremely stony	Fragipan	12-30	---	---	High	High	Moderate
Wurtsboro, extremely stony	Fragipan	20-28	---	---	Moderate	High	High
295162							
Wurtsboro, stony	Fragipan	20-28	---	---	Moderate	High	High
295163							
Wurtsboro, stony	Fragipan	20-28	---	---	Moderate	High	High
295164							
Wurtsboro, stony	Fragipan	20-28	---	---	Moderate	High	High
296588							
Arnot	Lithic bedrock	10-20	---	Very strongly cemented	Moderate	Low	High
296589							
Arnot	Lithic bedrock	10-20	---	Very strongly cemented	Moderate	Low	High
296590							
Arnot	Lithic bedrock	10-20	---	Very strongly cemented	Moderate	Low	High
296591							
Barbour	No restriction	---	---	---	Moderate	Low	Moderate
296592							
Basher	No restriction	---	---	---	High	Moderate	Moderate
296593							
Fluvents	No restriction	---	---	---	Moderate	High	High
Fluvaquents	No restriction	---	---	---	High	High	High
296594							
Holly	No restriction	---	---	---	High	High	Moderate
296595							
Linden	No restriction	---	---	---	Moderate	Low	High

Table 20.--Soil Features--Continued

Map unit symbol and soil name	Restrictive layer				Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness		Uncoated steel	Concrete
		In	*In*				
296596							
Lordstown	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	High
296599							
Lordstown	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	High
296600							
Lordstown	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	High
296601							
Medihemists	No restriction	---	---	---	High	High	Low
Medifibrists	No restriction	---	---	---	High	High	Low
296602							
Mardin	Fragipan	14-26	14-65	Noncemented	Moderate	Moderate	Low
296603							
Mardin	Fragipan	14-26	14-65	Noncemented	Moderate	Moderate	Low
296604							
Mardin	Fragipan	14-26	14-65	Noncemented	Moderate	Moderate	Low
296605							
Mardin	Fragipan	14-26	14-65	Noncemented	Moderate	Moderate	Low
296606							
Mardin	Fragipan	14-26	14-65	Noncemented	Moderate	Moderate	Low
296608							
Morris	Fragipan	11-22	26-69	Noncemented	High	High	Moderate
296609							
Morris	Fragipan	11-22	26-69	Noncemented	High	High	Moderate
296610							
Morris	Fragipan	11-22	26-69	Noncemented	High	High	Moderate
296611							
Morris	Fragipan	11-22	26-69	Noncemented	High	High	Moderate
296613							
Norwich	Fragipan	10-24	12-50	Noncemented	High	High	Moderate
Chippewa	Fragipan	10-24	12-50	Noncemented	High	High	Moderate
296614							
Oquaga	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	Moderate
296615							
Oquaga	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	Moderate
296616							
Oquaga	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	Moderate

Table 20.--Soil Features--Continued

Map unit symbol and soil name	Restrictive layer				Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness		Uncoated steel	Concrete
		In	*In*				
296617							
Oquaga	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	Moderate
296618							
Oquaga	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	Moderate
296619							
Oquaga	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	Moderate
Lordstown	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	High
296621							
Quarries	No restriction	---	---	---	---	---	---
296622							
Rexford, poorly drained	Fragipan	15-24	13-35	Noncemented	High	High	High
296623							
Rock outcrop	Lithic bedrock	0	---	Very strongly cemented	---	---	---
Arnot	Lithic bedrock	10-20	---	Very strongly cemented	Moderate	Low	High
296625							
Swartswood	Fragipan	22-36	---	Noncemented	Moderate	Low	High
296628							
Swartswood	Fragipan	22-36	---	Noncemented	Moderate	Low	High
296630							
Volusia	Fragipan	11-22	28-69	Noncemented	High	High	Moderate
296632							
Volusia	Fragipan	11-22	28-69	Noncemented	High	High	Moderate
296633							
Volusia	Fragipan	11-22	28-69	Noncemented	High	High	Moderate
296634							
Wellsboro	Fragipan	14-26	14-65	Noncemented	High	High	Moderate
296635							
Wellsboro	Fragipan	14-26	14-65	Noncemented	High	High	Moderate
296636							
Wellsboro	Fragipan	14-26	14-65	Noncemented	High	High	Moderate
296637							
Wellsboro	Fragipan	14-26	14-65	Noncemented	High	High	Moderate
296638							
Wellsboro	Fragipan	14-26	14-65	Noncemented	High	High	Moderate
296639							
Wellsboro	Fragipan	14-26	14-65	Noncemented	High	High	Moderate
Mardin	Fragipan	14-26	14-65	Noncemented	Moderate	Moderate	Low

Table 20.--Soil Features--Continued

Map unit symbol and soil name	Restrictive layer				Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thick-ness	Hardness		Uncoated steel	Concrete
		In	*In*				
296640							
Wyoming	No restriction	---	---	---	Low	Low	High
296641							
Wyoming	No restriction	---	---	---	Low	Low	High
296642							
Wyoming	No restriction	---	---	---	Low	Low	High
296643							
Wyoming	No restriction	---	---	---	Low	Low	High
296644							
Water.							
297185							
Edgemere	Fragipan	15-25	---	Noncemented	High	High	Moderate
Shohola	Fragipan	18-30	---	Noncemented	High	High	Moderate
297186							
Edgemere	Fragipan	15-25	---	Noncemented	High	High	Moderate
297188							
Manlius	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	Moderate
Arnot	Lithic bedrock	10-20	---	Very strongly cemented	Moderate	Low	High
Rock outcrop	Lithic bedrock	---	---	---	---	---	---
297189							
Manlius	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	Moderate
Arnot	Lithic bedrock	10-20	---	Very strongly cemented	Moderate	Low	High
Rock outcrop	Lithic bedrock	---	---	---	---	---	---
297190							
Braceville	Fragipan	15-30	---	Noncemented	Moderate	Moderate	Moderate
297191							
Wyalusing	No restriction	---	---	---	High	High	Moderate
297192							
Pope	No restriction	---	---	---	Moderate	Low	High
297193							
Paupack	No restriction	---	---	---	High	Moderate	Low
297194							
Morris	Fragipan	11-22	26-69	Noncemented	High	High	Moderate
297196							
Freetown	No restriction	---	---	---	High	High	High
297199							
Oquaga	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	Moderate

Table 20.--Soil Features--Continued

Map unit symbol and soil name	Restrictive layer				Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness		Uncoated steel	Concrete
		In	*In*				
297200							
Oquaga	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	Moderate
297201							
Oquaga	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	Moderate
297202							
Oquaga	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	Moderate
Arnot	Lithic bedrock	10-20	---	Very strongly cemented	Moderate	Low	High
Rock outcrop	Lithic bedrock	---	---	---	---	---	---
297203							
Delaware	Lithic bedrock	72-99	---	Very strongly cemented	Moderate	Low	Moderate
297204							
Delaware	Lithic bedrock	72-99	---	Very strongly cemented	Moderate	Low	Moderate
297205							
Delaware	Lithic bedrock	72-99	---	Very strongly cemented	Moderate	Low	Moderate
297207							
Wurtsboro	Fragipan	17-28	---	Noncemented	Moderate	High	High
297208							
Wurtsboro	Fragipan	17-28	---	Noncemented	Moderate	High	High
297209							
Philo	No restriction	---	---	---	Moderate	Low	High
297210							
Barbour	No restriction	---	---	---	Moderate	Low	Moderate
297211							
Wellsboro	Fragipan	14-26	14-65	Noncemented	High	High	Moderate
297212							
Wellsboro	Fragipan	14-26	14-65	Noncemented	High	High	Moderate
297213							
Wellsboro	Fragipan	14-26	14-65	Noncemented	High	High	Moderate
297215							
Wellsboro	Fragipan	14-26	14-65	Noncemented	High	High	Moderate
297216							
Wurtsboro	Fragipan	17-28	---	Noncemented	Moderate	High	High
297217							
Wurtsboro	Fragipan	17-28	---	Noncemented	Moderate	High	High
297218							
Wurtsboro	Fragipan	17-28	---	Noncemented	Moderate	High	High

Table 20.--Soil Features--Continued

Map unit symbol and soil name	Restrictive layer				Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness		Uncoated steel	Concrete
		In	*In*				
297221							
Lackawanna	Fragipan	28-36	---	Noncemented	Moderate	Low	Moderate
297223							
Lackawanna	Fragipan	28-36	---	Noncemented	Moderate	Low	Moderate
297224							
Swartswood	Fragipan	28-36	---	Noncemented	Moderate	Low	High
297225							
Swartswood	Fragipan	28-36	---	Noncemented	Moderate	Low	High
297226							
Swartswood	Fragipan	28-36	---	Noncemented	Moderate	Low	High
297227							
Arnot	Lithic bedrock	10-20	---	Very strongly cemented	Moderate	Low	High
297228							
Arnot	Lithic bedrock	10-20	---	Very strongly cemented	Moderate	Low	High
297229							
Wyoming	No restriction	---	---	---	Low	Low	High
297230							
Wyoming	No restriction	---	---	---	Low	Low	High
297231							
Wyoming	No restriction	---	---	---	Low	Low	High
297236							
Suncook	No restriction	---	---	---	Low	Low	High
297239							
Mardin	Fragipan	14-26	14-65	Noncemented	Moderate	Moderate	Low
297240							
Mardin	Fragipan	14-26	14-65	Noncemented	Moderate	Moderate	Low
297241							
Unadilla	No restriction	---	---	---	High	Low	Moderate
297242							
Shohola	Fragipan	18-30	---	Noncemented	High	High	Moderate
Edgemere	Fragipan	15-25	---	Noncemented	High	High	Moderate
297243							
Shohola	Fragipan	18-30	---	Noncemented	High	High	Moderate
Edgemere	Fragipan	15-25	---	Noncemented	High	High	Moderate
297244							
Lordstown	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	High
Swartswood	Fragipan	28-36	---	Noncemented	Moderate	Low	High
297245							
Lordstown	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	High

Table 20.--Soil Features--Continued

Map unit symbol and soil name	Restrictive layer				Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness		Uncoated steel	Concrete
		In	*In*				
297245							
Swartswood	Fragipan	28-36	---	Noncemented	Moderate	Low	High
297246							
Lordstown	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	High
Swartswood	Fragipan	28-36	---	Noncemented	Moderate	Low	High
297247							
Chenango	No restriction	---	---	---	Moderate	Low	Moderate
297248							
Chenango	No restriction	---	---	---	Moderate	Low	Moderate
297249							
Chenango	No restriction	---	---	---	Moderate	Low	Moderate
297250							
Lordstown	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	High
297251							
Lordstown	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	High
297253							
Craigsville	No restriction	---	---	---	Moderate	Low	Moderate
Wyoming	No restriction	---	---	---	Low	Low	High
297254							
Pits, shale	Paralithic bedrock	0-2	---	Very strongly cemented	Low	Low	High
Pits, gravel	No restriction	---	---	---	Low	Low	High
297257							
Water.							
309440							
Edgemere	Fragipan	15-25	---	Noncemented	High	High	Moderate
Shohola	Fragipan	18-30	---	Noncemented	High	High	Moderate
319863							
Oquaga	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	Moderate
Arnot	Lithic bedrock	10-20	---	Very strongly cemented	Moderate	Low	High
Rock outcrop	Lithic bedrock	---	---	---	---	---	---
319865							
Wellsboro	Fragipan	14-26	14-65	Noncemented	High	High	Moderate
741008							
Oquaga	Lithic bedrock	20-40	---	Very strongly cemented	Moderate	Low	Moderate

Table 21.--Taxonomic Classification of the Soils

Soil name	Family or higher taxonomic class
Alden	Fine-loamy, mixed, nonacid, mesic Mollic Haplaquepts
Alden taxadjunct	Fine-loamy, mixed, nonacid, mesic Mollic Haplaquepts
Arnot	Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts
Barbour	Coarse-loamy over sandy or sandy-skeletal, mixed, active, mesic Fluventic Dystrudepts
Bash	Coarse-loamy, mixed, semiactive, mesic Fluvaquentic Dystrudepts
Basher	Coarse-loamy, mixed, active, mesic Fluvaquentic Dystrudepts
Bath	Coarse-loamy, mixed, active, mesic Typic Fragiudepts
Braceville	Coarse-loamy, mixed, active, mesic Typic Fragiudepts
Cadosia	Loamy-skeletal, mixed, active, mesic Typic Dystrudepts
Carlisle	Euic, mesic Typic Haplosaprists
Chenango	Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts
Cheshire	Coarse-loamy, mixed, semiactive, mesic Typic Dystrudepts
Chippewa	Fine-loamy, mixed, active, mesic Typic Fragiaquepts
Craigsville	Loamy-skeletal, mixed, superactive, mesic Fluventic Dystrudepts
Delaware	Coarse-loamy, mixed, active, mesic Typic Dystrudepts
Edgemere	Loamy-skeletal, mixed, superactive, mesic Typic Fragiaquepts
Erie	Fine-loamy, mixed, active, mesic Aeric Fragiaquepts
Fluvaquents	Fluvaquents
Fluvents	Fluvents
Freetown	Dysic, mesic Typic Haplosaprists
Gleneyre	Coarse-silty over sandy or sandy-skeletal, mixed, active, nonacid, mesic Typic Fluvaquents
Gretor	Fine-loamy, mixed, active, acid, frigid Aeric Endoaquepts
Halcott	Loamy-skeletal, mixed, active, frigid Lithic Dystrudepts
Holly	Fine-loamy, mixed, active, nonacid, mesic Fluvaquentic Endoaquepts
Hoosic	Sandy-skeletal, mixed, mesic Typic Dystrudepts
Kimbles	Coarse-silty over sandy or sandy-skeletal, mixed, active, nonacid, mesic Typic Endoaquepts
Lackawanna	Coarse-loamy, mixed, active, mesic Typic Fragiudepts
Linden	Coarse-loamy, mixed, active, mesic Fluventic Dystrudepts
Lordstown	Coarse-loamy, mixed, active, mesic Typic Dystrudepts
Manlius	Loamy-skeletal, mixed, active, mesic Typic Dystrudepts
Maplecrest	Coarse-loamy, mixed, superactive, mesic Typic Dystrudepts
Mardin	Coarse-loamy, mixed, active, mesic Typic Fragiudepts
Medifibrists	Medifibrists
Medihemists	Medihemists
Middlebury	Coarse-loamy, mixed, superactive, mesic Fluvaquentic Eutrudepts
Mongaup	Coarse-loamy, mixed, active, frigid Typic Dystrudepts
Morris	Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts
Neversink	Coarse-loamy, mixed, active, acid, mesic Aeric Epiaquepts
Norchip	Fine-loamy, mixed, active, frigid Aeric Fragiaquepts
Norwich	Fine-loamy, mixed, active, mesic Typic Fragiaquepts
Oquaga	Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts
Otisville	Sandy-skeletal, mixed, mesic Typic Udorthents
Palms	Loamy, mixed, euic, mesic Terric Haplosaprists
Paupack	Loamy-skeletal or clayey-skeletal, mixed, dysic, mesic Terric Haplosaprists
Philo	Coarse-loamy, mixed, active, mesic Fluvaquentic Dystrudepts
Pompton	Coarse-loamy, mixed, active, mesic Aquic Dystrudepts
Pope	Coarse-loamy, mixed, active, mesic Fluventic Dystrudepts
Raynham	Coarse-silty, mixed, active, nonacid, mesic Aeric Epiaquepts
Raypol	Coarse-loamy over sandy or sandy-skeletal, mixed, active, acid, mesic Aeric Endoaquepts
Red Hook	Coarse-loamy, mixed, superactive, nonacid, mesic Aeric Endoaquepts
Red Hook taxadjunct	Coarse-loamy, mixed, superactive, nonacid, mesic Aeric Haplaquepts
Rexford	Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts
Riverhead	Coarse-loamy, mixed, active, mesic Typic Dystrudepts
Scio	Coarse-silty, mixed, active, mesic Aquic Dystrudepts
Scriba	Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts
Shohola	Loamy-skeletal, mixed, active, mesic Aeric Fragiaquepts
Suncook	Mixed, mesic Typic Udipsamments
Swartswood	Coarse-loamy, mixed, active, mesic Typic Fragiudepts
Torull	Loamy, mixed, active, acid, frigid Lithic Endoaquepts
Tuller	Loamy, mixed, active, acid, mesic Lithic Endoaquepts
Tunkhannock	Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts
Udifluvents	Loamy, mixed, nonacid, mesic Udifluvents

Table 21.--Taxonomic Classification of the Soils--Continued

Soil name	Family or higher taxonomic class
Udifluvents	Udifluvents
Udorthents	Udorthents
Unadilla	Coarse-silty, mixed, active, mesic Typic Dystrudepts
Valois	Coarse-loamy, mixed, superactive, mesic Typic Dystrudepts
Vly	Loamy-skeletal, mixed, superactive, frigid Typic Dystrudepts
Volusia	Fine-loamy, mixed, superactive, mesic Aeric Fragiaquepts
Wayland	Fine-silty, mixed, active, nonacid, mesic Fluvaquentic Endoaquepts
Wellsboro	Coarse-loamy, mixed, active, mesic Typic Fragiudepts
Wenonah	Coarse-loamy, mixed, superactive, mesic Fluventic Dystrudepts
Wurtsboro	Coarse-loamy, mixed, active, mesic Typic Fragiudepts
Wyalusing	Coarse-loamy over sandy or sandy-skeletal, mixed, active, nonacid, mesic Fluvaquentic Endoaquepts
Wyoming	Loamy-skeletal, mixed, active, mesic Typic Dystrudepts

Table 22.--Soil Classification Key

[An asterisk indicates a taxadjunct to the series]

ORDER Suborder Great Group Subgroup Series or Higher Category	
ENTISOLS	
Aquents	
Fluvaquents	
Fluvaquents	Fluvaquents
Typic Fluvaquents	
Gleneyre	Coarse-silty over sandy or sandy-skeletal, mixed, active, nonacid, mesic Typic Fluvaquents
Fluvents	
Fluvents	Fluvents
Udifluvents	
Udifluvents	Loamy, mixed, nonacid, mesic Udifluvents
Udifluvents	Udifluvents
Orthents	
Udorthents	
Udorthents	Udorthents
Typic Udorthents	
Otisville	Sandy-skeletal, mixed, mesic Typic Udorthents
Psamments	
Udipsamments	
Typic Udipsamments	
Suncook	Mixed, mesic Typic Udipsamments
HISTOSOLS	
Hemists	
Medihemists	
Medihemists	Medihemists
Fibrists	
Medifibrists	
Medifibrists	Medifibrists
Saprists	
Haplosaprists	
Typic Haplosaprists	
Freetown	Dysic, mesic Typic Haplosaprists
Carlisle	Euic, mesic Typic Haplosaprists
Terric Haplosaprists	
Palms	Loamy, mixed, euic, mesic Terric Haplosaprists
Paupack	Loamy-skeletal or clayey-skeletal, mixed, dysic, mesic Terric Haplosaprists
INCEPTISOLS	
Aquepts	
Fragiaquepts	
Typic Fragiaquepts	
Chippewa	Fine-loamy, mixed, active, mesic Typic Fragiaquepts
Norwich	Fine-loamy, mixed, active, mesic Typic Fragiaquepts
Edgemere	Loamy-skeletal, mixed, superactive, mesic Typic Fragiaquepts
Aeric Fragiaquepts	
Morris	Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts
Rexford	Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts
Scriba	Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts
Norchip	Fine-loamy, mixed, active, frigid Aeric Fragiaquepts
Erie	Fine-loamy, mixed, active, mesic Aeric Fragiaquepts
Volusia	Fine-loamy, mixed, superactive, mesic Aeric Fragiaquepts
Shohola	Loamy-skeletal, mixed, active, mesic Aeric Fragiaquepts
Haplaquepts	
Mollic Haplaquepts	
Alden	Fine-loamy, mixed, nonacid, mesic Mollic Haplaquepts

Table 22.--Soil Classification Key--Continued

```
ORDER
  Suborder
    Great Group
      Subgroup
        Series or Higher Category
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INCEPTISOLS--Continued
  Aquepts
    Haplaquepts
      Aeric Haplaquepts
        *Red Hook----------Coarse-loamy, mixed, superactive, nonacid, mesic Aeric
    Endoaquepts
      Typic Endoaquepts
        Kimbles----------Coarse-silty over sandy or sandy-skeletal, mixed, active,
                           nonacid, mesic Typic Endoaquepts
      Aeric Endoaquepts
        Raypol----------Coarse-loamy over sandy or sandy-skeletal, mixed, active, acid,
                           mesic Aeric Endoaquepts
        Red Hook----------Coarse-loamy, mixed, superactive, nonacid, mesic Aeric
                           Endoaquepts
        Gretor----------Fine-loamy, mixed, active, acid, frigid Aeric Endoaquepts
                           Fluvaquentic Endoaquepts
        Wyalusing----------Coarse-loamy over sandy or sandy-skeletal, mixed, active,
                           nonacid, mesic Fluvaquentic Endoaquepts
        Holly----------Fine-loamy, mixed, active, nonacid, mesic Fluvaquentic
                           Endoaquepts
        Wayland----------Fine-silty, mixed, active, nonacid, mesic Fluvaquentic
      Lithic Endoaquepts
        Torull----------Loamy, mixed, active, acid, frigid Lithic Endoaquepts
        Tuller----------Loamy, mixed, active, acid, mesic Lithic Endoaquepts
    Epiaquepts
      Aeric Epiaquepts
        Neversink----------Coarse-loamy, mixed, active, acid, mesic Aeric Epiaquepts
        Raynham----------Coarse-silty, mixed, active, nonacid, mesic Aeric Epiaquepts
  Udepts
    Dystrudepts
      Aquic Dystrudepts
        Pompton----------Coarse-loamy, mixed, active, mesic Aquic Dystrudepts
        Scio----------Coarse-silty, mixed, active, mesic Aquic Dystrudepts
      Lithic Dystrudepts
        Halcott----------Loamy-skeletal, mixed, active, frigid Lithic Dystrudepts
        Arnot----------Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts
      Fluvaquentic Dystrudepts
        Basher----------Coarse-loamy, mixed, active, mesic Fluvaquentic Dystrudepts
        Philo----------Coarse-loamy, mixed, active, mesic Fluvaquentic Dystrudepts
        Bash----------Coarse-loamy, mixed, semiactive, mesic Fluvaquentic Dystrudepts
        Barbour----------Coarse-loamy over sandy or sandy-skeletal, mixed, active, mesic
                           Fluventic Dystrudepts
      Fluventic Dystrudepts
        Linden----------Coarse-loamy, mixed, active, mesic Fluventic Dystrudepts
        Pope----------Coarse-loamy, mixed, active, mesic Fluventic Dystrudepts
        Wenonah----------Coarse-loamy, mixed, superactive, mesic Fluventic Dystrudepts
        Craigsville----------Loamy-skeletal, mixed, superactive, mesic Fluventic Dystrudepts
      Typic Dystrudepts
        Mongaup----------Coarse-loamy, mixed, active, frigid Typic Dystrudepts
        Delaware----------Coarse-loamy, mixed, active, mesic Typic Dystrudepts
        Lordstown----------Coarse-loamy, mixed, active, mesic Typic Dystrudepts
        Riverhead----------Coarse-loamy, mixed, active, mesic Typic Dystrudepts
        Cheshire----------Coarse-loamy, mixed, semiactive, mesic Typic Dystrudepts
        Maplecrest----------Coarse-loamy, mixed, superactive, mesic Typic Dystrudepts
        Valois----------Coarse-loamy, mixed, superactive, mesic Typic Dystrudepts
        Unadilla----------Coarse-silty, mixed, active, mesic Typic Dystrudepts
        Cadosia----------Loamy-skeletal, mixed, active, mesic Typic Dystrudepts
        Manlius----------Loamy-skeletal, mixed, active, mesic Typic Dystrudepts
        Wyoming----------Loamy-skeletal, mixed, active, mesic Typic Dystrudepts
```

Table 22.--Soil Classification Key--Continued

ORDER Suborder Great Group Subgroup Series or Higher Category	
INCEPTISOLS--Continued	
Udepts	
Dystrudepts	
Typic Dystrudepts	
Vly	Loamy-skeletal, mixed, superactive, frigid Typic Dystrudepts
Chenango	Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts
Oquaga	Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts
Tunkhannock	Loamy-skeletal, mixed, superactive, mesic Typic Dystrudepts
Hoosic	Sandy-skeletal, mixed, mesic Typic Dystrudepts
Typic Fragiudepts	
Bath	Coarse-loamy, mixed, active, mesic Typic Fragiudepts
Braceville	Coarse-loamy, mixed, active, mesic Typic Fragiudepts
Lackawanna	Coarse-loamy, mixed, active, mesic Typic Fragiudepts
Mardin	Coarse-loamy, mixed, active, mesic Typic Fragiudepts
Swartswood	Coarse-loamy, mixed, active, mesic Typic Fragiudepts
Wellsboro	Coarse-loamy, mixed, active, mesic Typic Fragiudepts
Wurtsboro	Coarse-loamy, mixed, active, mesic Typic Fragiudepts
Eutrudepts	
Fluvaquentic Eutrudepts	
Middlebury	Coarse-loamy, mixed, superactive, mesic Fluvaquentic Eutrudepts

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