

The Vascular Flora of Hopewell Furnace National Historic Site

by

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This survey of the vascular flora of Hopewell Furnace National Historic Site was begun in the spring of 1994 at the request of Roger Stone. Its purpose is to amplify and extend earlier efforts to catalog this important natural resource. To this end, it incorporates the results of the 1987 "Vegetative Study of Hopewell Furnace National Historic Site" by Emily W. B. Russell. To date the Vanderwerff survey has yielded an additional 99 species bringing the combined sightings of the Russell and Vanderwerff surveys to 603 species and varieties of vascular plants within Hopewell Furnace. Because interest in rare and endangered species is always high, the following paragraphs will elaborate on this aspect of the survey.

Three plants listed as endangered in the Pennsylvania Wild Plant Conservation Act are reported here. *Alisma plantago-aquatica* (southern water plantain) and *Juncus dichotomus* (forked rush) were cited by Russell but not yet located by Vanderwerff. *Sparganium angustifolium* (branching bur reed) was reported by Vanderwerff but not by Russell; its identification, however, remains in question. *Paspalum setaceum* var. *muhlenbergii* (hairy slender beadgrass) was reported by Vanderwerff. It is classified as tentatively undetermined in Pennsylvania.

Last reported in Hopewell in 1943, *Desmodium humifusum* (trailing tick trefoil) is a federally endangered species. An extensive search at the site of the 1943 observation was unsuccessful. This area was also recently searched unsuccessfully by the Nature Conservancy in connection with the

preparation of the Pennsylvania Natural Diversity Inventory. Because this plant superficially resembles the relatively common *Amphicarpa bracteata* (hog peanut), it can only be confidently identified when in flower (August and September).

I have seen the federally endangered *Poa paludigena* (bog bluegrass) in the Pine Swamp region of nearby French Creek State Park but have not sighted it in Hopewell, most likely because the habitat it favors in Pine Swamp does not exist within Hopewell.

Juncus longii (Long's rush) has been reported in French Creek State Park quite near the reported sighting of *Desmodium humifusum* but apparently this identification has been challenged. "The Vascular Flora of Pennsylvania", Rhoads and Klein, 1993, excludes *Juncus longii* from the state flora with the comment "no confirmed Pennsylvania material".

Several other species of special concern have been previously reported from this general area but I can offer no comment other than none of these was reported by Russell nor, as yet, by Vanderwerff. These plants are: *Aster dumosus* (bushy aster) - Pennsylvania undetermined, *Juncus biflorus* (two-flowered rush) - Pennsylvania undetermined, *Magnolia virginiana* (sweet-bay magnolia) - Pennsylvania threatened, *Najas gracillima* (very slender naiad) - Pennsylvania threatened, *Polygala cruciata* (cross-leaved milkwort) - Pennsylvania endangered and *Scleria muhlenbergii* (reticulated nut-rush) - Pennsylvania endangered.

It goes without saying that all of these plants of special concern will be actively sought in the continuing work on this survey.

There are a number of plants in Hopewell which, while not rare enough to warrant designation as being of special concern, are none the less rarely seen. Among these rarely seen plants are: *Ceratophyllum demersum* (hornwort), *Chaenorrhinum minus* (dwarf snapdragon), *Comptonia peregrina* (sweet fern), *Dryopteris X bootii* (Boott's woodfern), *Dulichium arundinaceum* (three-way sedge), *Erigeron pulchellus* (Robin's plantain), *Iris pseudacorus* (yellow iris), *Jeffersonia diphylla* (twinleaf), *Lespedeza cuneata* (wedge-shaped bush clover), *Nasturtium microphyllum* (small-leaved watercress), *Obolaria virginica* (pennywort), *Sagina decumbens* (decumbent pearlwort), *Tussilago farfara* (coltsfoot) and a white form of *Viola affinis* (albino LeConte's violet).

There are several small wetlands habitats within Hopewell. These tend to lie astride the courses of French Creek, Spout Run and the several branches of Baptism Creek. The broad, flat area lying just above the confluence of French and Baptism Creeks is one of the largest of these, comprising maybe four acres, and comes closest to resembling a bog. The wetland flanking all the branches of Baptism Creek north of Hopewell Road may have an overall larger area but it is an alluvial wetland diversely distributed along the courses of these streams. An appended map locates these wetland areas. Thus far, the survey has found 77 obligate wetlands plants growing in these wetlands.

Thus far, 65 species of grasses have been found within Hopewell. Among the less common are *Alopecurus pratensis* (meadow foxtail), four species of *Bromus* (brome grass or chess), *Glyceria septentrionalis* (eastern mannagrass), *Muhlenbergia mexicana* (satin grass), *Panicum depauperatum* (starved panic grass), *Panicum sphaerocarpon* (round-fruited panic grass), *Paspalum setaceum* (slender beadgrass), *Schizachyrium scoparius* (little bluestem) and *Sorghastrum nutans* (Indian grass).

A separate record was maintained as an inventory of Field 13 and Field 13A astride Bethesda Road at Hopewell Road. These adjacent fields support a rich and diverse meadow flora including seven asters, three goldenrods, an orchid and many other wildflowers in addition to many grasses. This inventory is appended in a separate list.

The attached seven flora lists (Gymnosperms, Pteridophytes, Grasses, Sedges, Other Monocots, Broadleaf Trees and Shrubs and Herbaceous Dicots summarize the results of the first year of work on this survey. The nomenclature used here is essentially that of Rhoads and Klein, "The Vascular Flora of Pennsylvania", 1993, with the addition of some varieties and forms which those authors did not recognize. As it becomes available, the multivolume "Flora of North America" will be used as the nomenclature standard. It should be noted that the Russell report did not recognize taxa below the species level, while the present survey recognizes many varieties and forms. Therefore, in references to sightings by Russell of plants which exist in southeastern Pennsylvania in more than one variety, it will be assumed that it was the most common variety which

Russell was reporting. The following paragraphs seek to explain the terms used in these flora lists.

In the interest in conserving space, the Colloquial Name column lists only one common name. This is either the one most common in eastern Pennsylvania or the one preferred by the author. In the case of plants not having a generally accepted common name, a translation of the technical name is used instead.

The Occurrence in Southeastern Pennsylvania column refers to the counties of Berks, Bucks, Chester, Delaware, Lancaster, Lebanon, Lehigh, Montgomery, Philadelphia and York (with the exclusion of that narrow strip along the Delaware River which is in the Coastal Plain Province). Several independent sources were used to obtain this data.

The Hopewell Sightings column indicates which of the two surveys, Russell or Vanderwerff (WDV) reported the plant.

The special status column indicates whether a plant is:

- OW An obligate wetlands species
- PA Listed or proposed for listing under the Pennsylvania Wild Plant Conservation Act
- US Listed or proposed for listing under the Federal Endangered Species Act

The descriptors used in the N/I (native or introduced) column are:

- N Native to southeastern Pennsylvania
- IP Introduced into southeastern Pennsylvania from elsewhere in Pennsylvania
- IA Introduced from elsewhere in North America
- I Introduced from outside North America

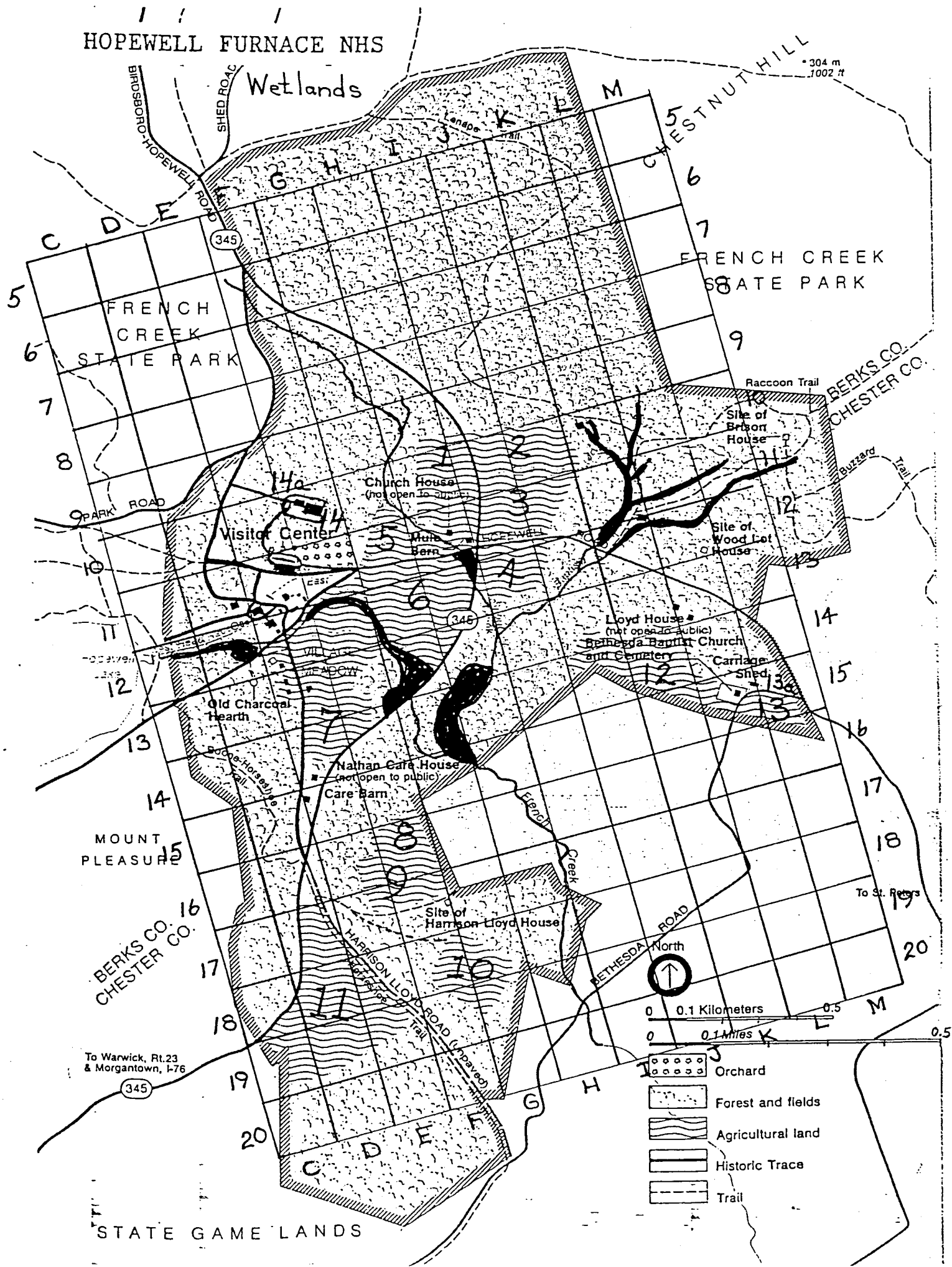
The Hopewell Locations refers to specific grid locations within which the plant was seen. The included map with the grid overlay provides the key to these locations. If a plant is widely distributed, and hence easily found, only a single grid location will be given. This will be the most convenient location where the plant can be easily found.

The Hopewell Location is followed in parenthesis by estimates of the occurrence within Hopewell and of how widely the plant is distributed within Hopewell. Widely distributed implies that the plant can be found almost anywhere in Hopewell which provides the appropriate habitat. Scattered implies that the plant can be found at many locations in Hopewell (again meaning those locations which provide the appropriate habitat). Local implies the the plant can be found at only one, or at most a very few, isolated locations; for example, the yellow iris (*Iris pseudacorus*) is known only from a small colony along French Creek in grid F12.

The Natural Habitat column refers to the generally preferred habitat or habitats of the species, not necessarily the specific habitat in which it occurs at Hopewell.

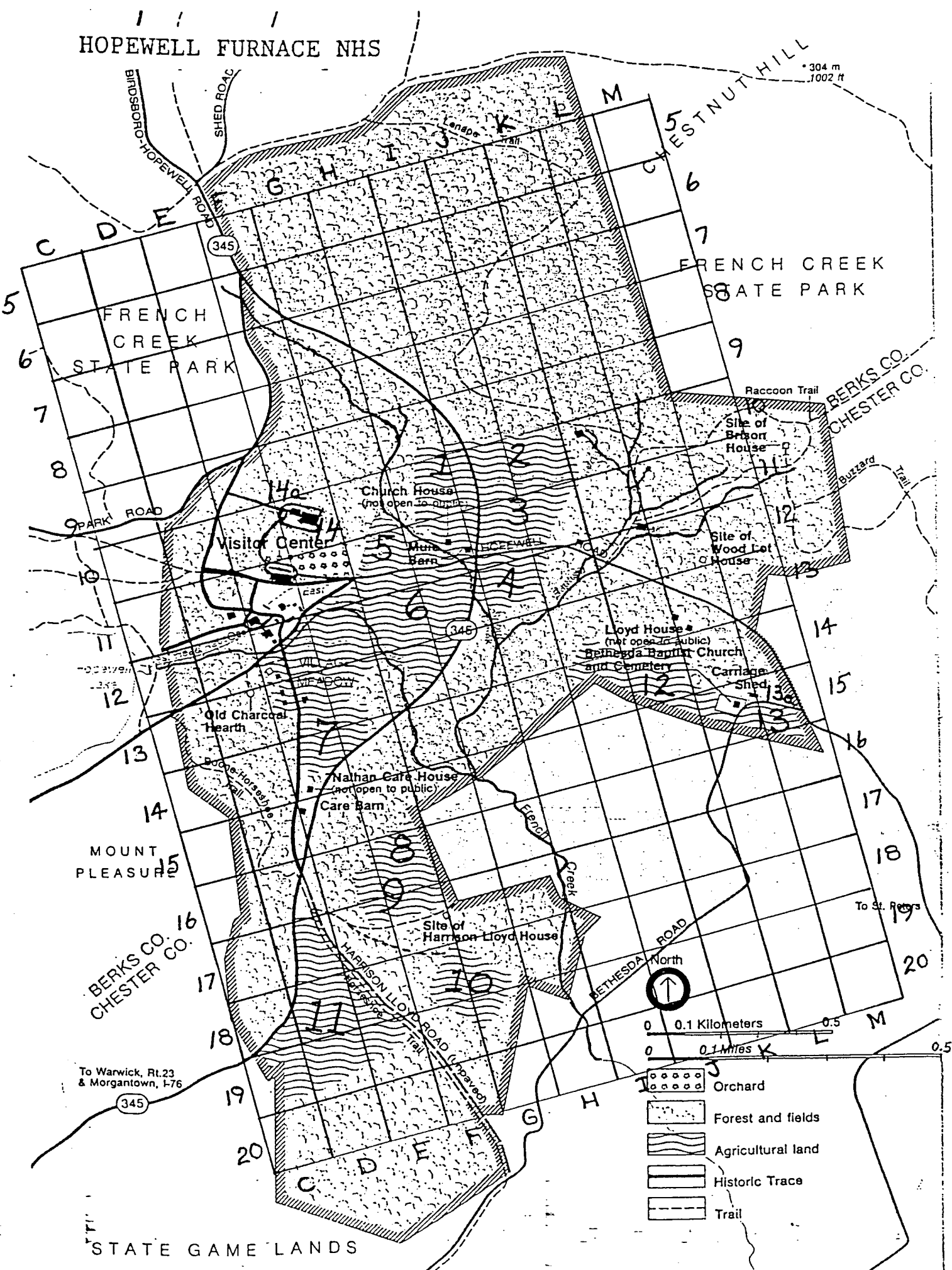
As noted above, this report is preliminary in nature and I look forward to continuing the work in the coming years.

HOPEWELL FURNACE NHS



HOPEWELL FURNACE NHS

• 304 m
1002 ft



Catalog of the Flora in Fields 13 & 13a
Straddling Bethesda Road at Hopewell Road
Hopewell Furnace National Historic Site

Species	Colloquial Name	ID Number	Field 13	Field 13a	
<i>Achillea millefolium</i>	yarrow	06209432HO		X	Introduced
<i>Alopecurus pratensis</i>	meadow foxtail	06249416HO		X	Introduced
<i>Ambrosia artemisiifolia</i>	common ragweed	09289428HO			
<i>Andropogon virginicus</i>	broomsedge	09129414HO	X	X	Native
<i>Antennaria plantaginifolia</i>	plantain-leaved pussytoes	06249430HO	X	X	Native
<i>Anthoxanthum odoratum</i>	sweet vernal grass	06319438HO	X	X	Introduced
<i>Apocynum X medium</i>	intermediate dogbane	06209403HO		X	Native
<i>Aster cordifolius</i>	heart-leaved aster	09289418HO		X	Native
<i>Aster dicaricatus</i>	white wood aster	09289417HO		X	Native
<i>Aster laevis</i>	smooth aster	09289419HO	X		Native
<i>Aster lateriflorus</i>	calico aster	09289414HO	X	X	Native
<i>Aster pilosus</i>	heath aster	09289415HO		X	Native
<i>Aster pilosus var. demotis</i>	smooth heath aster	09129406HO	X	X	Native
<i>Aster prenanthoides</i>	crooked-stem aster	09129407HO	X		Native
<i>Barbarea vulgaris var. arcuata</i>	yellow rocket	06249409HO	X	X	Introduced
<i>Bromus inermis</i>	smooth brome	06209448HO	X		Introduced
<i>Bromus japonicus</i>	Japanese brome	06249420HO		X	Introduced
<i>Carex bushii</i>	Bush's sedge	06319426HO		X	Native
<i>Carex conjuncta</i>	soft fox sedge	06319429HO		X	Native
<i>Carex gracilescens</i>	slender loose-flowered sedge	06249414HO		X	Native
<i>Carex laxiflora</i>	lose-flowered sedge	06319434HO		X	Native
<i>Centaurea jacea</i>	brown knapweed	08089406HO	X		Introduced
<i>Chrysanthemum leucanthemum</i>	oxeye daisy	06319436HO	X	X	Introduced
<i>Cichorium intybus</i>	chicory	06209426HO		X	Introduced
<i>Cirsium arvense</i>	Canada thistle	06209427HO	X	X	Introduced
<i>Cirsium vulgare</i>	bull thistle	08089406HO	X		Introduced
<i>Dactylis glomerata</i>	orchard grass	06319436HO	X	X	Introduced
<i>Danthonia spicata</i>	poverty oatgrass	06319425HO		X	Native
<i>Desmodium paniculatum</i>	panicked tick trefoil	08089407HO	X		Native
<i>Dianthus armeria</i>	Deptford pink	06209420HO	X		Introduced
<i>Digitaria ischaemum</i>	smooth crabgrass	09289429HO			
<i>Echinochloa crusgalli</i>	Barnyard grass	09129403HO		X	Introduced
<i>Elaeagnus umbellata</i>	autumn olive	06249403HO		X	Introduced
<i>Elytrigia repens</i>	quack grass	06209437HO		X	Introduced*
<i>Erigeron strigosus</i>	daisy fleabane	06319411HO		X	Native
<i>Erigeron pulchellus</i>	Robin's plantain	06249431HO	X		Native
<i>Festuca elatior</i>	tall fescue	06319423HO	X	X	Introduced
<i>Festuca rubra</i>	red fescue	06319426HO		X	Introduced*
<i>Gallium pilosum</i>	hairy bedstraw	08089409HO	X		Native
<i>Gallium triflorum</i>	sweet-scented bedstraw	08089410HO	X		Native
<i>Hieracium caespitosum</i>	field hawkweed	06319409HO		X	Introduced
<i>Hieracium flagellare</i>	green mouse-ear hawkweed	06319408HO		X	Introduced
<i>Hieracium piloselloides</i>	king devil	06319410HO		X	Introduced
<i>Juncus tenuis</i>	path rush	06209424HO	X		Native
<i>Krigia biflora</i>	Cynthia	06319405HO		X	Native
<i>Liatris spicata</i>	blazing star	08089404HO	X		Native
<i>Linaria vulgaris</i>	butter-and-eggs	08089427HO	X		Introduced
<i>Lonicera japonica</i>	Japanese honeysuckle	06209422HO	X	X	Introduced
<i>Lotus corniculata</i>	bird's-foot trefoil	06209421HO	X		Introduced
<i>Oenothera fruticosa ssp. glauca</i>	common sundrops	06209409HO		X	Native
<i>Panicum anceps</i>	beaked panic grass	08089423HO	X	X	Native
<i>Panicum clandestinum</i>	deertongue	06209440HO	X		Native
<i>Panicum depauperatum</i>	starved panic grass	06319417HO	X		Native
<i>Panicum lanuginosum var. fasciculatum</i>	hairy panic grass	06209443HO		X	Native
<i>Penstemon digitalis</i>	beard tongue	06209430HO		X	Introduced*
<i>Phalaris arundinacea</i>	reed canary grass	06209434HO		X	Native
<i>Pheum pratense</i>	timothy	06209423HO	X		Introduced
<i>Plantago lanceolata</i>	English plantain	06319437HO	X	X	Introduced
<i>Poa compressa</i>	Canada bluegrass	06209419HO	X	X	Introduced
<i>Poa pratensis</i>	Kentucky bluegrass	06249408HO	X	X	Introduced*
<i>Poa compressa</i>	Canada bluegrass	06319423HO	X	X	Introduced
<i>Potentilla simplex</i>	common cinquefoil	06319406HO		X	Native
<i>Prunella vulgaris</i>	heal all	08089436HO	X		Introduced*
<i>Rubus pensylvanicus</i>	common blackberry	06319441HO		X	Native
<i>Rudbeckia hirta</i>	black-eyed Susan	06229408HO		X	Introduced*
<i>Satureja vulgaris</i>	wild basil	08089422HO	X		Native
<i>Setaria faberii</i>	giant foxtail	08089416HO	X		Introduced
<i>Sisyrinchium angustifolium</i>	stout blue-eyed grass	06319407HO		X	Native

<i>Solidago juncea</i>	early goldenrod	09129408HO		X	Native
<i>Solidago nemoralis</i>	gray goldenrod	09129409HO	X	X	Native
<i>Sorghastrum nutans</i>	Indian grass	09129417HO	X		Native
<i>Spiranthes cernua</i>	nodding ladies' tresses	09129406HO		X	Native
<i>Tragopogon dubius</i>	goat's beard	06209436HO	X		Introduced
<i>Trifolium aureum</i>	hop clover	06209411HO		X	Introduced
<i>Veronica officinalis</i>	common speedwell	05319402HO		X	Native

* Introduced into Pennsylvania from elsewhere in North America

Pteridophytes at Hopewell Furnace National Historic Site

104 Species and varieties known in Southeastern Pennsylvania

30 Species and varieties sighted in Hopewell Furnace by either Russell or Vanderwerff

5 Species and varieties sighted in Hopewell by Vanderwerff but not by Russell

Updated: Friday, October 21, 1994

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Adiantum pedatum</i>	(maidenhair fern)	Common	Russell	N	Rich hardwoods
<i>Asplenium platyneuron</i>	(ebony spleenwort)	Common	Russell & WDV	N	
D12, E18, F19	(Infrequent & Scattered)	Open woods, wooded slopes, rocky banks			
<i>Athyrium filix-femina</i> var. <i>angustum</i> forma <i>rubellum</i>	(reddish lady fern)	Common	Russell & WDV	N	
F13, L12	(Frequent & Scattered)	Low woods, swamps and thickets			
<i>Athyrium filix-femina</i> var. <i>asplenioidea</i>	(southern lady fern)	Frequent	WDV	N	
L12	(Infrequent & Scattered)	Wet woods, thickets, swamps and meadows			
<i>Botrychium dissectum</i>	(cut-leaved grapefern)	Frequent	WDV	N	
F14	(Infrequent & Scattered)	Pastures, clearings, old fields and sterile meadows			
<i>Botrychium dissectum</i> forma <i>obliquum</i>	(ternate grapefern)	Common	Russell & WDV	N	
D12, F13, F14	(Infrequent & Scattered)	Pastures, clearings, old fields and open woods			
<i>Botrychium oneidense</i>	(evergreen cut-leaved grapefern)	Rare	Russell	N	Woods
<i>Botrychium virginianum</i>	(rattlesnake fern)	Common	Russell & WDV	N	
D16	(Frequent & Scattered)	Rich deciduous or mixed woods			
<i>Dennstaedtia punctilobula</i>	(hayscented fern)	Common	Russell & WDV	N	
D16, F14, M10	(Common & Widespread)	Rocky, open woods or pastures			
<i>Deparia thelypterioidea</i>	(silvery spleenwort)	Frequent	Russell	N	
		Rich woods, bottomlands and shaded slopes			
<i>Diplazium digitatum</i>	(crow's foot)	Common	Russell & WDV	N	
N10, M12	(Frequent & Scattered)	Dry woods, thickets and clearings			
<i>Dryopteris carthusiana</i>	(spinulose wood fern)	Common	Russell & WDV	N	
C14, G14	(Frequent & Scattered)	Low woods, thickets and swamps			
<i>Dryopteris cristata</i>	(crested wood fern)	Frequent	Russell & WDV	N	
G14	(Infrequent & Local)	Boggy or swampy open ground			
<i>Dryopteris intermedia</i>	(evergreen wood fern)	Common	Russell	N	
		Wet to dry woods and thickets			
<i>Dryopteris marginalis</i>	(marginal wood fern)	Common	Russell & WDV	N	
D16, E11, F19	(Frequent & Scattered)	Woods, clearings and rocky slopes			
<i>Dryopteris X boothii</i>	(Booth's wood fern)	Infrequent	WDV	N	
G14	(Infrequent & Local)	Swamps and moist woodland edges			
<i>Equisetum arvense</i>	(common horsetail)	Common	Russell & WDV	N	
K12	(Infrequent & Scattered)	Open low ground			

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)		Natural Habitat			
<i>Equisetum sylvaticum</i>	(woodland horsetail)	Infrequent	Russell	N	
		Woodlands, thickets and openings			
<i>Huperzia lucidula</i>	(shining clubmoss)	Common	WDV	N	
F14	(Not reported & Local ?)	Cool woods			
<i>Lycopodium obscurum</i>	(ground pine)	Common	Russell & WDV	N	
M11	(Infrequent & Scattered)	Woods, copses and clearings			
<i>Onoclea sensibilis</i>	(sensitive fern)	Common	Russell	N	
		Low open ground			
<i>Osmunda cinnamomea</i>	(cinnamon fern)	Common	Russell & WDV	N	
F13	(Common & Widespread)	Swamps, low woods and thickets			
<i>Osmunda claytoniana</i>	(interrupted fern)	Frequent	Russell & WDV	N	
F8	(Infrequent & Scattered)	Moist woods and thickets			
<i>Osmunda regalis</i>	(royal fern)	Frequent	Russell & WDV	N	OW
F8, F13, G14	(Infrequent & Scattered)	Low woods, swales and shores			
<i>Phegopteris hexagonoptera</i>	(broad beech fern)	Frequent	WDV	N	
E11, G7	(Rare & Scattered)	Rich woods			
<i>Polypodium virginianum</i>	(common polypody)	Common	Russell & WDV	N	
C14, D14, D15	(Infrequent & Local)	Rocks, crests of ledges and bases of trees			
<i>Polystichum acrostichoides</i>	(Christmas fern)	Common	Russell & WDV	N	
E18	(Common & Widespread)	Woods and rocky slopes			
<i>Pteridium aquilinum</i>	(bracken)	Common	Russell & WDV	N	
M11	(Infrequent & Scattered)	Open woods, burns and clearings			
<i>Thelypteris noveboracensis</i>	(New York fern)	Common	Russell & WDV	N	
D16	(Common & Widespread)	Dry to damp woods and thickets			
<i>Thelypteris palustris</i> var. <i>pubescens</i>	(marsh fern)	Frequent	Russell & WDV	IA	
F12, F13, L12	(Frequent & Scattered)	Swamps, bogs, and wet meadows			

Gymnosperms at Hopewell Furnace National Historic Site

21 Species and varieties known in Southeastern Pennsylvania

8 Species and varieties sighted in Hopewell Furnace by either Russell or Vanderwerff

3 Species and varieties sighted in Hopewell by Vanderwerff but not by Russell

Updated: Friday, October 21, 1994

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I Natural Habitat	Special Status
Hopewell Locations (Occurrence and Distribution)					
Juniperus communis	(juniper)	Infrequent	WDV	IP	
F12	(Rare & Local)			Dry slopes or pastures	
Juniperus virginiana	(red cedar)	Frequent	Russell	N	
		Dry open woods, rocky slopes and barrens			
Picea abies	(Norway spruce)	Rare	WDV	I	
E10	(Rare & Local)			Forest plantations	
Pinus rigida	(pitch pine)	Infrequent	Russell	N	
				Sterile soils	
Pinus strobus	(white pine)	Infrequent	Russell	N	
				Woods	
Pinus virginiana	(Jersey pine)	Infrequent	Russell	N	
				Barrens and sandy or rocky soil	
Thuja occidentalis	(arbor vitae)	Rare	WDV	I	
F12	(Rare & Local)			Swamps and cool rocky banks	
Tsuga canadensis	(eastern hemlock)	Frequent	Russell	N	
		Cool, moist woods and shaded slopes			

Grasses at Hopewell Furnace National Historic Site

255 Species and varieties known in Southeastern Pennsylvania

65 Species and varieties sighted in Hopewell Furnace by either Russell or Vanderwerff

18 Species and varieties sighted in Hopewell by Vanderwerff but not by Russell

Updated: Thursday, October 20, 1994

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Agrostis gigantea</i>	(redtop)	Common	Russell & WDV	IA	
M15	(Frequent & Scattered)		Fields, roadsides and waste ground		
<i>Agrostis hyemalis</i>	(winter hairgrass)	Infrequent	Russell	N	
			Open sterile soil, bogs or thin woods		
<i>Agrostis perennans</i>	(autumn bentgrass)	Common	Russell & WDV	N	
D12, L12	(Frequent & Scattered)		Open woods, thickets and rocky banks		
<i>Alopecurus pratensis</i>	(meadow foxtail)	Rare	WDV	I	
M15, E11	(Infrequent & Local)		Meadows and waste ground		
<i>Andropogon virginicus</i>	(broomsedge)	Common	Russell & WDV	N	
M15	(Common & Widespread)		Old fields, hillsides and waste ground		
<i>Anthoxanthum odoratum</i>	(sweet vernal grass)	Common	Russell & WDV	I	
M15	(Common & Widespread)		Fields, pastures and roadsides		
<i>Arrhenatherum elatius</i>	(tall oatgrass)	Infrequent	Russell	I	
			Fields and roadsides		
<i>Brachyelytrum erectum</i>	(bearded short-husk)	Frequent	Russell	N	
			Moist, wooded hillsides and alluvial woods		
<i>Bromus commutatus</i>	(hairy chess)	Common	WDV	I	
E12	(Infrequent & Local)		Fields, roadsides and waste places		
<i>Bromus inermis</i>	(smooth brome)	Infrequent	Russell & WDV	I	
Rare ?	(Rare & Local ?)		Fields, roadsides and waste ground		
<i>Bromus japonicus</i>	(Japanese chess)	Infrequent	WDV	I	
M15	(Infrequent & Local ?)		Roadsides and waste ground		
<i>Bromus sterilis</i>	(barren chess)	Infrequent	WDV	I	
I12	(Infrequent & Local)		Roadsides and waste ground		
<i>Cinna arundinacea</i>	(stout woodreed)	Frequent	Russell & WDV	N	
D12	(Frequent & Scattered)		Moist woods and shaded swamps		
<i>Dactylis glomerata</i>	(orchard grass)	Common	Russell & WDV	I	
M15	(Common & Widespread)		Fields, meadows and roadsides		
<i>Danthonia compressa</i>	(flattened oatgrass)	Infrequent	Russell	N	
			Dry, rocky woods clearings		
<i>Danthonia spicata</i>	(poverty oatgrass)	Frequent	Russell & WDV	N	
M15	(Abundant & Widespread)		Dry, sandy or gravelly soils and thin woods		
<i>Digitaria ischaemum</i>	(smooth crabgrass)	Frequent	Russell & WDV	I	
J12	(Frequent & Scattered)		Cultivated and waste ground		

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)		Natural Habitat			
<i>Digitaria sanguinalis</i>	(northern crabgrass)	Common	Russell & WDV	I	
E12	(Frequent & Scattered)		Cultivated and waste ground		
<i>Echinochloa crusgalli</i>	(barnyard grass)	Frequent	Russell & WDV	I	
D17, M15	(Infrequent & Scattered)		Fields, meadows and roadsides		
<i>Echinochloa muricata</i>	(barnyard grass)	Frequent	WDV	N	
J12	(Infrequent & Scattered)		Moist ground and alluvial shores		
<i>Eleusine indica</i>	(goosegrass)	Common	Russell & WDV	I	
E12	(Infrequent & Scattered)		Yards and waste ground		
<i>Elytrigia repens</i>	(quackgrass)	Frequent	WDV	IA	
M15	(Frequent & Scattered)		Fields, roadsides and waste ground		
<i>Eragrostis spectabilis</i>	(purple lovegrass)	Frequent	Russell & WDV	N	
D11, F14, K14	(Frequent & Widespread)		Dry sandy fields and roadsides		
<i>Festuca elatior</i>	(tall fescue)	Common	Russell & WDV	I	
G14, M15	(Abundant & Widespread)		Meadows, roadsides and open ground		
<i>Festuca obtusa</i>	(noddling fescue)	Frequent	Russell	N	
			Moist woods and clearings		
<i>Festuca pratensis</i>	(meadow fescue)	Infrequent	WDV	I	
M15	(Infrequent & Local ?)		Meadows, moist shores and roadsides		
<i>Festuca rubra</i>	(red fescue)	Rare	Russell & WDV	IA	
M15	(Frequent & Scattered)		Dry woods, roadsides and waste ground		
<i>Glyceria melicaria</i>	(long mannagrass)	Infrequent	Russell	N	OW
			Wet woods, stream banks and swamps		
<i>Glyceria septentrionalis</i>	(eastern mannagrass)	Infrequent	Russell & WDV	N	OW
G14	(Frequent & Local)		Swamps, wet woods and ditches		
<i>Glyceria striata</i>	(fowl mannagrass)	Common	Russell & WDV	N	OW
G14	(Infrequent & Local)		Wet woods, swamps and bogs		
<i>Holcus lanatus</i>	(velvet grass)	Frequent	Russell	I	
			Sterile fields, meadows and roadsides		
<i>Leersia oryzoides</i>	(rice cutgrass)	Frequent	Russell & WDV	N	OW
F12	(Infrequent & Local ?)		Marshes, bogs and wet meadows		
<i>Leersia virginica</i>	(white grass)	Common	Russell & WDV	N	
F12	(Frequent & Scattered)		Swamps and moist woods		
<i>Lolium multiflorum</i>	(Italian ryegrass)	Infrequent	Russell	I	
			Fields and roadsides		
<i>Microstegium vimineum</i>	(stilt grass)	Frequent	Russell & WDV	I	
D10	(Abundant & Widespread)		Damp roadsides and moist, open woods		
<i>Muhlenbergia mexicana</i>	(satin grass)	Infrequent	WDV	N	
L12	(Infrequent & Scattered)		Woods, rocky shores and serpentine barrens		
<i>Muhlenbergia schreberi</i>	(nimblewill)	Common	Russell & WDV	N	
G13	(Common & Widespread ?)		Woodlands, thickets, roadsides and dooryards		
<i>Muhlenbergia sobolifera</i>	(rock dropseed)	Frequent	Russell & WDV	N	
D17	(Common & Scattered)		Dry, rocky slopes		

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)		Natural Habitat			
<i>Panicum anceps</i> (beaked panic grass)		Frequent	Russell & WDV	N	
E12 (Abundant & Widespread)					Moist, open, sandy soil
<i>Panicum boeckii</i> (Bosc's panic grass)		Frequent	WDV	N	
D16 (Rare & Scattered)					Moist woods, grassy slopes and river banks
<i>Panicum clandestinum</i> (deertongue)		Common	Russell & WDV	N	
F12, M15 (Frequent & Scattered)					Moist or dry thickets, shores, borders of alluvial woods
<i>Panicum depauperatum</i> (starved panic grass)		Infrequent	WDV	N	
M15 (Infrequent & Scattered)					Dry, open woods and serpentine barrens
<i>Panicum dichotomiflorum</i> (fall panicum)		Common	Russell	N	
					Dry to moist, open woods and meadows
<i>Panicum dichotomum</i> (forked panic grass)		Common	Russell & WDV	N	
M10 (Frequent & Scattered)					Moist, sandy woods
<i>Panicum dichotomum</i> var. <i>barbulatum</i> (bearded forked panic grass)		Infrequent	WDV	N	
F12, D16, G13 (Frequent & Scattered)					Moist, sandy woods
<i>Panicum lanuginosum</i> var. <i>fasciculatum</i> (hairy panic grass)		Common	Russell & WDV	N	
M11, M15 (Infrequent & Widespread)					Dry woods, slopes and clearings
<i>Panicum lanuginosum</i> var. <i>lindheimeri</i> (Lindheimer's panic grass)		Infrequent	WDV	N	
F14 (Infrequent & Scattered)					Dry woods, slopes and clearings
<i>Panicum lanuginosum</i> var. <i>tennesseense</i> (Tennessee panic grass)		Frequent	WDV	N	
M10 (Infrequent & Scattered)					Dry woods, slopes and clearings
<i>Panicum sphaerocarpon</i> (round-fruited panic grass)		Infrequent	WDV	N	
M15 (Frequent & Widespread)					Dry open soil and thin woods
<i>Psaralum laeve</i> var. <i>circularis</i> (round-fruited field beadgrass)		Frequent	Russell & WDV	N	
E12, G13 (Frequent & Widespread ?)					Moist sandy fields
<i>Psaralum setaceum</i> var. <i>muhlenbergii</i> (hairy slender beadgrass)		Frequent	WDV	N	PA
E12, G13 (Frequent & Widespread ?)					Dry or moist open ground and serpentine barrens
<i>Phalaris arundinacea</i> (reed canary grass)		Common	WDV	N	
M15 (Infrequent & Scattered)					Shores, swales and meadows
<i>Phleum pratense</i> (timothy)		Common	Russell & WDV	I	
M15 (Frequent & Widespread)					Fields, meadows and roadsides
<i>Poa annua</i> (annual bluegrass)		Common	WDV	I	
E11 (Common & Scattered)					Cultivated or waste ground and clearings
<i>Poa compressa</i> (Canada bluegrass)		Common	Russell & WDV	I	
M15 (Common & Widespread)					Dry woods and fields
<i>Poa pratensis</i> (Kentucky bluegrass)		Common	Russell & WDV	IA	
M15 (Common & Widespread)					Moist shores, meadows, fields and slopes
<i>Poa trivialis</i> (rough bluegrass)		Frequent	Russell & WDV	I	
G14 (Frequent & Widespread)					Glades, spring-heads, brookside and damp slopes
<i>Schizachyrium scoparium</i> (little bluestem)		Frequent	Russell & WDV	N	
D11 (Frequent & Scattered)					Old fields, roadsides and open woods
<i>Setaria faberi</i> (giant foxtail)		Common	Russell & WDV	I	
G13, M15 (Abundant & Widespread)					Fields, waste ground and roadsides

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)		Natural Habitat			
<i>Setaria geniculata</i>	(knotroot bristleglass)	Frequent	WDV	N	
F14	(Frequent & Scattered)				Dry to moist open soil
<i>Setaria pumila</i>	(yellow bristleglass)	Common	Russell & WDV	I	
E11, G13	(Common & Widespread)				Cultivated or waste ground and roadsides
<i>Setaria viridis</i>	(green bristleglass)	Common	Russell & WDV	I	
E12	(Infrequent & Scattered)				Cultivated and waste ground
<i>Sorghastrum nutans</i>	(Indian grass)	Frequent	Russell & WDV	N	
M15	(Infrequent & Scattered)				Dry to moist fields and serpentine barrens
<i>Sphenopholis obtusata</i> var. <i>major</i>	(slender wedgegrass)	Common	Russell	N	
					Stream banks, open woods and alluvial thickets
<i>Tridens flavus</i>	(purpletop)	Common	Russell & WDV	N	
G11	(Abundant & Widespread)				Old fields, meadows and roadsides

Sedges at Hopewell Furnace National Historic Site

207 Species and varieties known in Southeastern Pennsylvania

54 Species and varieties sighted in Hopewell Furnace by either Russell or Vanderwerff

10 Species and varieties sighted in Hopewell by Vanderwerff but not by Russell

Updated: Friday, October 21, 1994

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I Natural Habitat	Special Status
Hopewell Locations (Occurrence and Distribution)					
Carex aggregata	(glomerate sedge)	Frequent	WDV	N	
G14	(Infrequent & Scattered)		Rich woods, thickets and meadows		
Carex albicans	(closely-covered sedge)	Frequent	Russell & WDV	N	
K12	(Infrequent & Scattered)		Dry woods and clearings		
Carex albolutescens	(greenish-white sedge)	Infrequent	Russell	N	
			Wet woods and thickets		
Carex alburina	(white bear sedge)	Rare	WDV	N	
G17	(Rare & Local ?)		Calcareous hardwoods and ravines		
Carex amphibola	(narrow-leaved sedge)	Rare	Russell	N	
			Calcareous hardwoods and rich slopes		
Carex annectens	(bristle-spiked sedge)	Frequent	Russell	N	
			Dry to moist woods, fields and ditches		
Carex atlantica	(prickly bog sedge)	Frequent	Russell	N	
			Swamps, wet woods and damp peats		
Carex blanda	(woodland sedge)	Common	Russell & WDV	N	
D10, G14, K12	(Frequent & Scattered)		Woods, bottomlands, thickets and meadows		
Carex bromoides	(brome-like sedge)	Infrequent	Russell & WDV	N	
G14	(Infrequent & Scattered)		Rich low woods and swamps		
Carex bushii	(Bush's sedge)	Infrequent	WDV	N	
M15	(Frequent & Scattered)		Meadows, fields, prairies and open woods		
Carex cephalophora	(oval-headed sedge)	Common	Russell	N	
			Dry woods and openings		
Carex conjuncta	(soft fox sedge)	Infrequent	WDV	N	
E17, M15	(Infrequent & Scattered)		Calcareous bottoms, glades and swales		
Carex crinita	(fringed sedge)	Frequent	Russell & WDV	N	OW PA
F12	(Infrequent & Local)		Swales, damp thickets and low woods		
Carex debilis	(white-edged sedge)	Frequent	WDV	N	
G14	(Infrequent & Scattered)		Low woods, thickets, swamps and clearings		
Carex emmonsii	(Emmons' sedge)	Frequent	WDV	N	
K12	(Frequent & Scattered)		Dry woods, thickets and clearings		
Carex glaucoidea	(glaucous sedge)	Frequent	WDV	N	
K10	(Infrequent & Scattered)		Calcareous woods and meadows		
Carex gracilescens	(slender loose-flowered sedge)	Infrequent	Russell & WDV	N	
K12, M15	(Infrequent & Scattered)		Rich woods, thickets and bottoms		

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)		Natural Habitat			
<i>Carex gracillima</i>	(graceful sedge)	Frequent	Russell & WDV	N	
K12	(Infrequent & Scattered)	Woodlands, thickets and meadows			
<i>Carex granularis</i>	(meadow sedge)	Frequent	Russell & WDV	N	
J12	(Infrequent & Scattered)	Calcareous or rich woods, meadows and bottomlands			
<i>Carex grisea</i>	(gray sedge)	Infrequent	WDV	N	
G17	(Infrequent & Scattered)	Rich woods, bottomlands and meadows			
<i>Carex gynandra</i>	(noddling sedge)	Frequent	Russell	N	OW
		Swales, thickets and low woods			
<i>Carex hirsutella</i>	(slightly hairy sedge)	Frequent	Russell	N	
		Open woods, fields, meadows and clearings			
<i>Carex intumescens</i>	(bladder sedge)	Frequent	Russell & WDV	N	
I8, G7	(Infrequent & Scattered)	Alluvial woods, meadows and swales			
<i>Carex laxiculmis</i>	(spreading sedge)	Frequent	Russell	N	
		Rich woods and glades			
<i>Carex laxiflora</i>	(loose-flowered sedge)	Frequent	Russell & WDV	N	
M15	(Not reported & Scattered)	Rich hardwoods and loamy slopes			
<i>Carex lupulina</i>	(hop sedge)	Infrequent	Russell	N	OW
		Swamps and wet woods			
<i>Carex lurida</i>	(sallow sedge)	Common	Russell & WDV	N	OW
E12	(Rare & Local)	Swales, swamps and wet woods			
<i>Carex normalis</i>	(larger straw sedge)	Common	Russell	N	
		Rich woods, thickets and swales			
<i>Carex pennsylvanica</i>	(Pennsylvania sedge)	Frequent	Russell	N	
		Dry open soil and open woods			
<i>Carex prasina</i>	(drooping sedge)	Frequent	Russell	N	OW
		Rich low woods and glades			
<i>Carex radiata</i>	(stellate sedge)	Common	Russell & WDV	N	
D11, G17	(Infrequent & Scattered)	Rich woods and thickets			
<i>Carex rosea</i>	(coiled stellate sedge)	Common	Russell	N	
		Dry woods and thickets			
<i>Carex scoparia</i>	(pointed broomsedge)	Common	Russell	N	
		Moist to dry open ground, thickets and open woods			
<i>Carex stipata</i>	(awl-fruited sedge)	Common	Russell & WDV	N	
F14, G14	(Infrequent & Scattered)	Low grounds			
<i>Carex stricta</i>	(tussock sedge)	Frequent	Russell & WDV	N	OW
F12	(Frequent & Scattered)	In acid or sub-acid swamps, swales and low woods			
<i>Carex swanii</i>	(Swan's sedge)	Common	Russell & WDV	N	
M15	(Infrequent & Local?)	Woods, thickets and clearings			
<i>Carex vulpinoidea</i>	(fox sedge)	Common	Russell & WDV	N	OW
F12	(Frequent & Scattered)	Low ground			
<i>Cyperus bipartitus</i>	(shining umbrella sedge)	Frequent	Russell	N	
		Wet sandy, gravelly, muddy or peaty places			

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Cyperus flavescent</i>	(yellow umbrella sedge)	Infrequent	WDV	N	OW
E12	(Infrequent & Scattered)				Wet sandy soil
<i>Cyperus lupulinus</i> var. <i>macilentus</i>	(sessile-spiked variety)	Not reported	WDV	N	
E12	(Infrequent & Scattered ?)		Dry, rocky or sandy ground		
<i>Cyperus strigosus</i>	(false nutsedge)	Common	Russell & WDV	N	
E12	(Frequent & Scattered)	Meadows, swales, damp thickets and shores			
<i>Dulichium arundinaceum</i>	(three-way sedge)	Frequent	Russell & WDV	N	OW
F12	(Rare & Local)	Swamps and margins of pools and streams			
<i>Eleocharis acicularis</i>	(least spike rush)	Frequent	Russell	N	OW
		Damp shores and low ground			
<i>Eleocharis erythropoda</i>	(bald spike rush)	Infrequent	Russell	N	OW
		Wet shores, marshes and springy spots			
<i>Eleocharis obtusa</i>	(blunt spike rush)	Common	Russell	N	OW
		Swampy ground, bogs and ditches			
<i>Eleocharis tenuis</i>	(slender spike rush)	Frequent	Russell & WDV	N	
		Wet, damp or even dryish sands, gravels and peats			
<i>Rhynchospora capitellata</i>	(clustered beak rush)	Frequent	Russell & WDV	N	OW
F12	(Frequent & Scattered)	Boggy meadows and low open woods			
<i>Schoenoplectus tabernaemontani</i>	(great bulrush)	Frequent	Russell & WDV	N	OW
E12	(Rare & Local)	Brackish or fresh shallow water and marshes			
<i>Scirpus atrovirens</i>	(dark-green bulrush)	Frequent	Russell & WDV	N	OW
E12, J12	(Infrequent & Scattered)	Meadow, bogs and low thickets			
<i>Scirpus cyperinus</i>	(wool grass)	Common	Russell & WDV	N	
F12, L12	(Infrequent & Scattered)	Wet meadows and swamps			
<i>Scirpus expansus</i>	(wood bulrush)	Infrequent	Russell & WDV	N	OW
F12	(Infrequent & Local)	Spring-heads, meadows, borders of rills and thickets			
<i>Scirpus georgianus</i>	(Georgian dark-green bulrush)	Frequent	Russell	N	OW
		Swamps, moist meadows and wet woods			
<i>Scirpus hattorianus</i>	(bulrush)	Infrequent	Russell	N	OW
		Swamps, bogs and moist meadows			
<i>Scirpus polyphyllus</i>	(leafy bulrush)	Frequent	Russell	N	OW
		Low woods, swamps and shores			

Other Monocots at Hopewell Furnace National Historic Site

239 Species and varieties known in Southeastern Pennsylvania

54 Species and varieties sighted in Hopewell Furnace by either Russell or Vanderwerff

8 Species and varieties sighted in Hopewell by Vanderwerff but not by Russell

Updated: Friday, October 21, 1994

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Acorus calamus</i>	(sweet flag)	Frequent	Russell	I	OW
		Wet places and borders of quiet water			
<i>Alisma plantago-aquatica</i> var. <i>americana</i>	(southern water plantain)	Frequent	Russell	N	OW PA
		Shallow water, muddy shores and ditches			
<i>Allium canadense</i>	(wild garlic)	Frequent	Russell & WDV	N	
G14	(Frequent & Scattered)	Low woods, thickets and meadows			
<i>Allium vineale</i>	(field garlic)	Common	Russell & WDV	I	
(Common & Widespread)		Disturbed woods, fields and lawns			
<i>Arisaema triphyllum</i>	(jack-in-the-pulpit)	Common	Russell	N	
		Rich woods and thickets			
<i>Asparagus officinalis</i>	(asparagus)	Frequent	Russell	I	
		Fields, roadsides and waste ground			
<i>Commelina communis</i>	(Asiatic dayflower)	Common	Russell & WDV	I	
K12	(Frequent & Scattered)	Gardens, roadsides and stream banks			
<i>Cypripedium acaule</i>	(moccasin flower)	Frequent	Russell	N	
		Dry acid soil of woodlands			
<i>Dioscorea villosa</i>	(wild yam)	Frequent	Russell	N	
		Woods, thickets and rocky slopes			
<i>Elodea nuttallii</i>	(Nuttall's waterweed)	Frequent	Russell	N	OW
		Shallow waters, fresh and slightly brackish			
<i>Erythronium americanum</i>	(dogtooth violet)	Common	Russell	N	
		Rich woods, bottomlands and meadows			
<i>Galearia spectabilis</i>	(showy orchid)	Frequent	Russell	N	
		Rich, mostly calcareous woods			
<i>Goodyera pubescens</i>	(rattlesnake plantain)	Frequent	Russell & WDV	N	
D15, M11	(Infrequent & Scattered)	Dry or moist woods			
<i>Hemerocallis fulva</i>	(orange day lily)	Frequent	Russell & WDV	I	
G13	(Rare & Local)	Roadsides, borders of fields and thickets			
<i>Hypoxis hirsuta</i>	(yellow star grass)	Frequent	Russell	N	
		Open woods and meadows			
<i>Iris pseudacorus</i>	(yellow iris)	Rare	WDV	I	OW
F12	(Rare & Local)	Marshland, meadows and brooksides			
<i>Isotria verticillata</i>	(whorled pogonia)	Frequent	Russell	N	
		Acid or mediacid woodlands			

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)		Natural Habitat			
<i>Juncus dichotomus</i>	(forked rush)	Infrequent	Russell	N	PA
		Dry or moist acid soils			
<i>Juncus effusus</i> var. <i>solutus</i>	(loose soft rush)	Common	Russell & WDV	N	
E12, F12	(Infrequent & Local)	Swamps, wet meadows and moist woods			
<i>Juncus marginatus</i>	(grass-like rush)	Frequent	Russell	N	
		Moist siliceous, argillaceous or peaty soil			
<i>Juncus subcaudatus</i>	(tailed rush)	Infrequent	Russell	N	OW
		Bogs, mossy woods and shaded spring-heads			
<i>Juncus tenuis</i>	(path rush)	Common	Russell & WDV	N	
M15	(Frequent & Scattered)	Damp, wet or dry open soils, roadsides, thickets and swamps			
<i>Lemna minor</i>	(lesser duckweed)	Common	Russell	N	OW
		Quiet waters			
<i>Luzula echinata</i>	(hedgehog wood rush)	Common	WDV	N	
L12, F14	(Common & Widespread)	Moist, rocky woods and wet meadows			
<i>Luzula multiflora</i>	(common wood rush)	Common	Russell	N	
		Woods, swamps and floodplains			
<i>Maianthemum canadense</i>	(wild lily-of-the-valley)	Common	Russell & WDV	N	
K12	(Common & Widespread)	Woods and recent clearings			
<i>Medeola virginiana</i>	(Indian cucumber root)	Common	Russell	N	
		Rich woods			
<i>Narcissus pseudo-narcissus</i>	(daffodil)	Not reported	WDV	I	
E12	(Rare & Local)	Fields and open groves			
<i>Narcissus pseudo-narcissus</i> var. <i>plenus</i>	(double-flowered daffodil)	Infrequent	WDV	I	
I11, E10	(Rare & Local)	Abandoned homesites and gardens			
<i>Ornithogallum umbellatum</i>	(star-of-Bethlehem)	Common	Russell & WDV	I	
G17	(Infrequent & Scattered)	Roadsides, grasslands and thickets			
<i>Platanthera lacera</i>	(ragged orchid)	Frequent	Russell	N	
		Dry to wet meadows, thickets and woods			
<i>Polygonatum biflorum</i>	(smooth Solomon's seal)	Common	Russell & WDV	N	
K10	(Infrequent & Scattered)	Dry to moist sandy, loamy or rocky woods			
<i>Polygonatum pubescens</i>	(hairy Solomon's Seal)	Common	WDV	N	
I9	(Frequent & Widespread)	Woods, wooded bluffs and about boulders in woods			
<i>Potamogeton epihydrus</i> var. <i>nuttallii</i>	(Nuttall's pondweed)	Infrequent	Russell & WDV	N	OW
E12	(Rare & Local)	Quiet waters			
<i>Potamogeton crispus</i>	(curly pondweed)	Infrequent	Russell & WDV	I	OW
E12	(Infrequent & Local)	Muddy, calcareous and brackish ponds and streams			
<i>Potamogeton foliosus</i> var. <i>macellus</i>	(smaller leafy pondweed)	Infrequent	Russell	N	OW
		Lakes and streams			
<i>Sagittaria australis</i>	(Appalachian arrowhead)	Frequent	Russell	N	OW
		By springs, rills and ponds			
<i>Sagittaria latifolia</i> var. <i>pubescens</i>	(hairy arrowhead)	Frequent	Russell & WDV	N	OW
F12, K12	(Infrequent & Local ?)	Moist meadows and river banks			

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Sisyrinchium angustifolium</i>	(stout blue-eyed grass)	Common	Russell & WDV	N	
M15, F12	(Infrequent & Scattered)	Meadows, low woods and thickets and damp shores			
<i>Sisyrinchium mucronatum</i>	(slender blue-eyed grass)	Frequent	Russell & WDV	N	
D11, E14, F14	(Frequent & Scattered)	Meadows, fields and open woods			
<i>Smilacina racemosa</i> var. <i>cylindrata</i>	(smaller false Solomon's seal)	Common	Russell	N	
		Woods and clearings			
<i>Smilax glauca</i>	(cat brier)	Frequent	Russell & WDV	N	
L12, M10	(Infrequent & Scattered)	Dry to moist sandy thickets, open woods and fields			
<i>Smilax herbacea</i>	(carion flower)	Frequent	Russell	N	
		Rich, calcareous woods and thickets			
<i>Smilax hispida</i>	(hispid greenbrier)	Infrequent	Russell & WDV	N	
M11	(Frequent & Widespread)	Rich calcareous woods, thickets and bottoms			
<i>Smilax pulverulenta</i>	(carion flower)	Frequent	WDV	N	
F8, I8, J9	(Infrequent & Scattered)	Rich calcareous woods and thickets			
<i>Smilax rotundifolia</i>	(common greenbrier)	Common	Russell & WDV	N	
F14	(Common & Widespread)	Moist to dryish thickets and woods			
<i>Sparganium americanum</i>	(bur reed)	Common	Russell	N	OW
		Muddy or peaty shores and shallow water			
<i>Sparganium angustifolium</i>	(branching bur reed)	Not reported	WDV	N	OW PA
G14, K12, L11	(Rare & Local)	Muddy or peaty shores and shallow water			
<i>Spiranthes cernua</i>	(nodding ladies' tresses)	Frequent	Russell & WDV	N	
M15	(Rare & Scattered)	Wet or dryish open soil or in bogs			
<i>Symplocarpus foetidus</i>	(skunk cabbage)	Common	Russell & WDV	N	OW
K12	(Common & Widespread)	Wet meadows, swampy woods and thickets			
<i>Typha latifolia</i>	(common cattail)	Common	WDV	N	OW
K12, L11	(Rare & Local)	Marshes and shallow water			
<i>Uvularia perfoliata</i>	(perfoliate bellwort)	Common	Russell & WDV	N	
I8	(Frequent & Scattered)	Thin woods, thickets and clearings			
<i>Uvularia sessilifolia</i>	(sessile-leaved bellwort)	Common	Russell	N	
		Woods, thickets and clearings			
<i>Veratrum viride</i>	(false hellebore)	Frequent	Russell & WDV	N	
D12, G14, H13	(Infrequent & Scattered)	Swamps and low grounds			

Broadleaf Trees and Shrubs at Hopewell Furnace National Historic Site

363 Species and varieties known in Southeastern Pennsylvania

90 Species and varieties sighted in Hopewell Furnace by either Russell or Vanderwerff

10 Species and varieties sighted in Hopewell by Vanderwerff but not by Russell

Updated: Friday, October 21, 1994

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Acer negundo</i>	(box elder)	Frequent	Russell	N	River banks
<i>Acer rubrum</i>	(red maple)	Common	Russell	N	Swamps or uplands
<i>Acer saccharinum</i>	(silver maple)	Frequent	Russell	N	River banks and bottomlands
<i>Acer saccharum</i>	(sugar maple)	Frequent	Russell & WDV	N	
<i>Ailanthus altissima</i>	(tree of heaven)	Frequent	Russell	I	
<i>Alnus glutinosa</i>	(black alder)	Rare	WDV	I	
E12	(Rare & Local)				
<i>Alnus incana</i> ssp. <i>rugosa</i>	(speckled alder)	Rare	Russell	N	Low grounds, swamps and margins of streams
<i>Alnus serrulata</i>	(smooth alder)	Common	Russell & WDV	N	OW
F12	(Infrequent & Local ?)				
<i>Amelanchier canadensis</i>	(oblong-leaf juneberry)	Infrequent	Russell & WDV	N	Swamps, low grounds and thickets
E16	(Infrequent & Scattered)				
<i>Asimina triloba</i>	(common pawpaw)	Rare	Russell	N	Rich woods and alluvium
<i>Berberis thunbergii</i>	(Japanese barberry)	Frequent	Russell & WDV	I	Pastures and open habitats
H12	(Frequent & Scattered)				
<i>Betula alleghaniensis</i>	(yellow birch)	Infrequent	Russell & WDV	N	Rich woods
D15	(Infrequent & Scattered)				
<i>Betula lenta</i>	(cherry birch)	Frequent	Russell & WDV	N	
K6	(Frequent & Widespread)				
<i>Betula nigra</i>	(river birch)	Infrequent	Russell	N	Bottomlands and borders of streams
<i>Broussonetia papyrifera</i>	(paper mulberry)	Rare	Russell	I	Roadsides and thickets
<i>Carpinus caroliniana</i>	(ironwood)	Common	Russell & WDV	N	Rich woods and swamps
K11	(Common & Widespread)				
<i>Carya glabra</i>	(pignut hickory)	Frequent	Russell	N	Dry woods and slopes

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Carya laciniosa</i>	(shellbark hickory)	Rare	Russell	N	
			Rich woods and bottoms		
<i>Carya ovata</i>	(shagbark hickory)	Common	Russell	N	
			Rich woods, bottoms and slopes		
<i>Carya tomentosa</i>	(mockernut hickory)	Frequent	Russell	N	
<i>Castanea dentata</i>	(chestnut)	Common	Russell	N	
			Dry, gravelly or rocky, mostly acid soil		
<i>Catalpa bignonioides</i>	(southern catalpa)	Infrequent	WDV	I	
G5	(Rare & Local)				
<i>Catalpa speciosa</i>	(northern catalpa)	Not reported	WDV	I	
E11	(Rare & Local)				
<i>Celtis occidentalis</i>	(American hackberry)	Frequent	Russell	N	
			Damp to dry woodlands		
<i>Cephalanthus occidentalis</i>	(buttonbush)	Frequent	Russell & WDV	N	OW
E12	(Rare & Local)		Swamps and margins of ponds and streams		
<i>Cercis canadensis</i>	(redbud)	Infrequent	Russell & WDV	N	
D11, D12	(Rare & Local)		Rich woods and ravines		
<i>Clethra alnifolia</i>	(sweet pepperbush)	Rare	Russell	N	
			Swamps, damp thickets and sandy woods		
<i>Comptonia peregrina</i>	(sweet fern)	Frequent	WDV	N	
I9	(Rare & Local ?)				
<i>Cornus amomum</i>	(silky dogwood)	Frequent	Russell	N	
			Swamps and damp thickets		
<i>Cornus florida</i>	(flowering dogwood)	Common	Russell & WDV	N	
	(Frequent & Widespread)			Acidic woods	
<i>Corylus americana</i>	(hazelnut)	Frequent	Russell & WDV	N	
H12	(Infrequent & Scattered)			Thickets	
<i>Eleagnus umbellata</i>	(autumn olive)	Rare	Russell & WDV	I	
M15	(Rare & Scattered)		Thickets and roadside banks		
<i>Euonymus alatus</i>	(winged burning bush)	Infrequent	WDV	I	
M15	(Infrequent & Local)				
<i>Euonymus americanus</i>	(strawberry bush)	Infrequent	Russell	N	
			Rich woods and ravines		
<i>Fagus grandifolia</i>	(American beech)	Common	Russell & WDV	N	
J7	(Common & Widespread)			Rich uplands	
<i>Fraxinus americana</i>	(white ash)	Common	Russell & WDV	N	
E11	(Frequent & Widespread)		Rich upland to lowland woods		
<i>Fraxinus americana</i> var. <i>biltmoreana</i>	(Biltmore ash)	Rare	WDV	N	
G13	(Rare & Local?)			Rich woods	
<i>Fraxinus nigra</i>	(black ash)	Infrequent	Russell	N	
			Swamps and shores		

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Fraxinus pensylvanica</i>	(red ash)	Frequent	Russell & WDV	N	
D11	(Infrequent & Scattered)		Low grounds		and river banks
<i>Gaylussacia baccata</i>	(black huckleberry)	Common	Russell & WDV	N	
F14	(Common & Widespread)		Dry or moist woods,		thickets and clearings
<i>Hamamelis virginiana</i>	(witch hazel)	Common	Russell & WDV	N	
J9, K12	(Frequent & Scattered)				Dry or moist woods
<i>Ilex verticillata</i>	(winterberry)	Common	Russell & WDV	N	
G14	(Infrequent & Scattered)		Swamps, pond margins		and moist thickets
<i>Juglans nigra</i>	(black walnut)	Frequent	Russell	N	
					Rich woods
<i>Kalmia latifolia</i>	(mountain laurel)	Common	Russell	N	
			Rocky or gravelly woods		
<i>Ligustrum obtusifolium</i>	(Ibota privet)	Infrequent	Russell	I	
			Thickets, borders of woods		and roadsides
<i>Lindera benzoin</i>	(spice bush)	Common	Russell & WDV	N	
D12	(Common & Widespread)		Damp woods and brookside		
<i>Liriodendron tulipifera</i>	(tulip poplar)	Common	Russell	N	
					Rich soil
<i>Lonicera morrowii</i>	(Morrow honeysuckle)	Infrequent	Russell & WDV	I	
D11	(Rare & Local)		Roadside		and thickets
<i>Lyonia ligustrina</i>	(maleberry)	Frequent	Russell	N	
					Wet or dry thickets
<i>Malus domestica</i>	(apple)	Infrequent	Russell	I	
			Roadside, borders of woods		and clearings
<i>Morus alba</i>	(white mulberry)	Frequent	Russell	I	
<i>Nyssa sylvatica</i>	(sour gum)	Common	Russell & WDV	N	
J7	(Frequent & Widespread)		Low acid woods, swamps		and shores
<i>Ostrya virginiana</i>	(hop hornbeam)	Frequent	Russell	N	
					Rich woods
<i>Paulownia tomentosa</i>	(empress tree)	Infrequent	WDV	I	
D15	(Rare & Local ?)		Roadside, clearings		and borders of woods
<i>Platanus occidentalis</i>	(sycamore)	Common	Russell & WDV	N	
H12	(Infrequent & Scattered)				Rich soil
<i>Populus grandidentata</i>	(bigtooth aspen)	Frequent	Russell & WDV	N	
D11, E11	(Infrequent & Scattered)		Dry woods, slopes		and recent burns
<i>Prunus americana</i>	(wild plum)	Frequent	WDV	N	
D12	(Rare & Local)		Thickets, borders of woods		and stream banks
<i>Prunus avium</i>	(sweet cherry)	Frequent	Russell	I	
			Roadside thickets		and borders of woods
<i>Prunus serotina</i>	(wild black cherry)	Common	Russell	N	
			Dry woods and fence rows		

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Prunus virginiana</i>	(chokecherry)	Infrequent	Russell	N	
		Thickets, shores and borders of woods			
<i>Quercus alba</i>	(white oak)	Common	Russell & WDV	N	
E11, F14	(Frequent & Widespread)				Dry woods
<i>Quercus bicolor</i>	(swamp white oak)	Frequent	Russell	N	
		Bottomlands, stream margins and swamps			
<i>Quercus coccinea</i>	(scarlet oak)	Frequent	Russell	N	
		Dry light soil			
<i>Quercus montana</i>	(chestnut oak)	Frequent	Russell & WDV	N	
J7	(Frequent & Widespread)	Dry or rocky woods, bluffs and crests			
<i>Quercus palustris</i>	(pin oak)	Frequent	Russell	N	
		Swampy woods and bottoms			
<i>Quercus rubra</i>	(northern red oak)	Common	Russell & WDV	N	
F15	(Common & Widespread)	Dry or upland woods			
<i>Quercus velutina</i>	(black oak)	Common	Russell & WDV	N	
D16	(Common & Widespread)	Dry woods			
<i>Rhododendron periclymenoides</i> var. <i>eglandulosum</i>	(pinxter flower)	Common	Russell & WDV	N	
K6, K10	(Infrequent & Scattered)	Woods, thickets and swamps			
<i>Rhus copalina</i> var. <i>latifolia</i>	(broad-leaved winged sumac)	Frequent	Russell	N	
		Thickets and openings			
<i>Rhus glabra</i>	(smooth sumac)	Common	Russell	N	
		Dry soil			
<i>Rhus typhina</i>	(staghorn sumac)	Frequent	Russell	N	
		Dry rocky or gravelly soil			
<i>Robinia pseudoacacia</i>	(black locust)	Frequent	Russell	N	
		Woods and thickets			
<i>Rosa multiflora</i>	(multiflora rose)	Frequent	Russell	I	
		Clearings, roadsides and borders of woods			
<i>Rosa palustris</i>	(swamp rose)	Infrequent	Russell & WDV	N	OW
E12	(Rare & Local)	Swamps, wet thickets and shores			
<i>Salix nigra</i>	(black willow)	Frequent	Russell & WDV	N	
F12	(Infrequent & Local)	Stream banks, shores and rich low woods			
<i>Sambucus canadensis</i>	(common elder)	Common	Russell	N	
		Wet, damp and rich woods			
<i>Sassafras albidum</i>	(sassafras)	Common	Russell & WDV	N	
G7	(Frequent & Widespread)	Woods and thickets			
<i>Symphoricarpos orbiculatus</i>	(coralberry)	Infrequent	Russell & WDV	IA	
E11, F9	(Rare & Scattered)	Open woods, thickets and dry banks			
<i>Tilia americana</i>	(American basswood)	Infrequent	Russell	N	
		Rich woods			
<i>Toxicodendron vernix</i>	(poison sumac)	Infrequent	Russell	N	OW
		Wooded swamps			

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)					Natural Habitat
<i>Ulmus americana</i>	(American elm)	Frequent	WDV	N	
G14	(Rare & Local)				Rich soil
<i>Ulmus rubra</i>	(slippery elm)	Frequent	Russell & WDV	N	
	(Frequent & Scattered)				Rich soil
<i>Vaccinium corymbosum</i>	(highbush blueberry)	Frequent	Russell	N	
		Swamps, low woods and even dry uplands			
<i>Vaccinium pallidum</i>	(early low blueberry)	Common	Russell & WDV	N	
D15, K6	(Frequent & Scattered)	Dry open woods, thickets and clearings			
<i>Vaccinium stamineum</i>	(deerberry)	Common	Russell & WDV	N	
K11, K12	(Infrequent & Scattered)	Dry woods, thickets and clearings			
<i>Vaccinium stamineum</i> var. <i>neglectum</i>	(overlooked deerberry)	Infrequent	WDV	N	
M11	(Infrequent & Scattered)				
<i>Viburnum acerifolium</i>	(mapleleaf viburnum)	Common	Russell	N	
					Dry or rocky woods
<i>Viburnum dentatum</i>	(southern arrowwood)	Frequent	Russell	N	
		Moist or sandy thickets and borders of woods			
<i>Viburnum lentago</i>	(nannyberry)	Rare	Russell	N	
		Stream banks and borders of woods			
<i>Viburnum prunifolium</i>	(black haw)	Common	Russell	N	
		Thickets, borders of woods and shores			
<i>Viburnum recognitum</i>	(northern arrowwood)	Frequent	WDV	N	
G14	(Not reported & Local)				Damp thickets

Herbaceous Dicots at Hopewell Furnace National Historic Site

1553 Species and varieties known in Southeastern Pennsylvania

302 Species and varieties sighted in Hopewell Furnace by either Russell or Vanderwerff

45 Species and varieties sighted in Hopewell by Vanderwerff but not by Russell

Updated: Friday, October 21, 1994

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Acalypha rhomboidea</i>	(three-seeded mercury)	Common	Russell & WDV	N	
M15	(Infrequent & Scattered)		Roadsides, fields and borders of woods		
<i>Achillea millefolium</i>	(yarrow)	Common	Russell & WDV	I	
M15	(Common & Widespread)		Fields and roadsides		
<i>Agrimonia gryposepala</i>	(tall hairy agrimony)	Frequent	Russell & WDV	N	
D16	(Infrequent & Scattered)		Thickets and borders of woods		
<i>Agrimonia parviflora</i>	(many-flowered agrimony)	Frequent	WDV	N	
F12	(Infrequent & Scattered ?)		Damp thickets and rocky slopes		
<i>Alliaria petiolata</i>	(garlic mustard)	Frequent	Russell	I	
			Roadsides and open woods		
<i>Amaranthus retroflexus</i>	(pigweed)	Infrequent	Russell	I	
			Waste places and cultivated fields		
<i>Ambrosia artemisiifolia</i>	(common ragweed)	Common	Russell & WDV	N	
M15	(Frequent & Scattered)		Roadsides, cultivated fields and waste places		
<i>Ambrosia trifida</i>	(great ragweed)	Common	Russell	N	
			Alluvium, rich openings and waste places		
<i>Amphicarpa bracteata</i>	(hog peanut)	Frequent	Russell & WDV	N	
D10	(Frequent & Scattered)		Damp woodlands		
<i>Anagallis arvensis</i>	(scarlet pimpernel)	Frequent	Russell & WDV	I	
F14, G13, G14	(Infrequent & Local ?)		Waste sandy fields		
<i>Anemone quinquefolia</i>	(wood anemone)	Frequent	WDV	N	
D12, K10	(Frequent & Scattered)		Open woods, thickets and clearings		
<i>Anemone virginiana</i>	(thimbleweed)	Common	Russell & WDV	N	
D16, E11	(Infrequent & Scattered)		Dry or rocky open woods, thickets and slopes		
<i>Antennaria neglecta</i>	(field pussytoes)	Common	Russell & WDV	N	
E12	(Infrequent & Scattered)		Sterile fields, pastures and open woods		
<i>Antennaria neodioica</i>	(mouse-ear cudweed)	Common	Russell	N	
			Dry fields, open woods and rocky barrens		
<i>Antennaria plantaginifolia</i>	(plantain-leaved pussytoes)	Common	Russell & WDV	N	
L15, M15, K12	(Infrequent & Scattered)		Dry open woods, fields and rocky banks		
<i>Apios americana</i>	(ground nut)	Frequent	WDV	N	
L11	(Not reported & Local ?)		Rich thickets		
<i>Apocynum androsaemifolium</i>	(spreading dogbane)	Frequent	Russell	N	
			Dry thickets and borders of woods		

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I Natural Habitat	Special Status
Hopewell Locations (Occurrence and Distribution)					
<i>Apocynum cannabinum</i>	(Indian hemp)	Frequent	Russell	N	
		Open ground, thickets and borders of woods			
<i>Apocynum X medium</i>	(intermediate dogbane)	Infrequent	WDV	N	
M15	(Infrequent & Scattered)	Dry or moist ground and rocky shores			
<i>Aralia nudicaulis</i>	(wild sassaaparilla)	Common	Russell	N	
		Woodlands			
<i>Arctium minus</i>	(common burdock)	Common	Russell	I	
		Waste land			
<i>Arenaria serpyllifolia</i>	(thyme-leaved sandwort)	Common	WDV	I	
E11	(Infrequent & Scattered)	Dry sterile fields and roadsides			
<i>Asarum canadense</i>	(wild ginger)	Frequent	Russell	N	
		Rich woods and shaded calcareous ledges			
<i>Asclepias exaltata</i>	(poke milkweed)	Infrequent	Russell	N	
		Rich woods and clearings			
<i>Asclepias syriaca</i>	(common milkweed)	Common	Russell	N	
		Thickets, roadsides and dry fields			
<i>Aster cordifolius</i>	(heart-leaved aster)	Common	Russell & WDV	N	
D11, M15	(Frequent & Scattered)	Open woods, thickets and clearings			
<i>Aster divaricatus</i>	(white wood aster)	Common	Russell & WDV	N	
D11, D12, M15	(Frequent & Widespread)	Dry woods and clearings			
<i>Aster laevis</i>	(smooth aster)	Frequent	WDV	N	
M15	(Frequent & Local ?)	Dry open habitats and borders of woods			
<i>Aster lanceolatus</i> var. <i>simplex</i>	(panicled aster)	Common	Russell	N	
		Damp thickets, meadows and shores			
<i>Aster lateriflorus</i>	(calico aster)	Common	Russell & WDV	N	
E15, F9, M15	(Frequent & Scattered)	Dry to moist fields, thickets, clearings and shores			
<i>Aster pilosus</i>	(heath aster)	Frequent	WDV	N	
F9, M15	(Frequent & Scattered)	Dry thickets, clearings and roadsides			
<i>Aster pilosus</i> var. <i>demotia</i>	(smooth heath aster)	Common	Russell & WDV	N	
M15	(Frequent & Scattered)				
<i>Aster prenanthoides</i>	(crooked-stem aster)	Frequent	WDV	N	
M15	(Frequent & Scattered)	Damp thickets, rich woods, shores and bottoms			
<i>Aster undulatus</i>	(wavy-leaf aster)	Frequent	WDV	N	
D17	(Frequent & Scattered)	Dry open woods, thickets and clearings			
<i>Barbarea vulgaris</i>	(common winter cress)	Frequent	Russell	I	
		Meadows, brooksides and damp woods			
<i>Barbarea vulgaris</i> var. <i>arcuata</i>	(bow-like winter cress)	Common	WDV	I	
D17, M15	(Frequent & Scattered)				
<i>Bidens connata</i> var. <i>petiolata</i>	(petioled swamp beggar ticks)	Frequent	Russell	N	
		Damp shores and swamps			
<i>Bidens frondosa</i>	(beggar ticks)	Common	Russell	N	
		Damp open habitats and waste and cultivated ground			

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Boehmeria cylindrica</i>	(false nettle)	Common	Russell & WDV	N	
F12, G14	(Common & Widespread)				Moist or shady ground
<i>Callitriche heterophylla</i>	(larger water starwort)	Frequent	Russell & WDV	N	OW
H12	(Infrequent & Scattered)				Quiet waters and mud
<i>Caltha palustris</i>	(marsh marigold)	Infrequent	Russell	N	OW
			Swamps, wet meadows and wet woods		
<i>Campanula aparinoides</i>	(marsh bellflower)	Frequent	Russell & WDV	N	OW
E12, F12	(Infrequent & Local)				Meadows, swales and wet shores
<i>Campsis radicans</i>	(trumpet creeper)	Rare	Russell	IA	
<i>Cardamine bulbosa</i>	(spring cress)	Frequent	Russell	N	OW
			Springs, bottomland woods and meadows		
<i>Cardamine concatenata</i>	(cut-leaved toothwort)	Common	Russell	N	
			Rich woods, wooded bottoms and calcareous banks		
<i>Cardamine hirsuta</i>	(hairy bitter cress)	Infrequent	WDV	I	
G14	(Infrequent & Scattered)				Roadsides, lawns and old fields
<i>Cardamine pennsylvanica</i>	(bitter cress)	Common	Russell & WDV	N	OW
K10	(Infrequent & Scattered)				Springs, rills and wet clearings
<i>Carduus nutans</i>	(musk thistle)	Rare	Russell	I	
			Fields and waste places		
<i>Celastrus orbiculatus</i>	(Asiatic bittersweet)	Infrequent	Russell & WDV	I	
D11, F17	(Frequent & Scattered)				Roadsides, fencerows and thickets
<i>Centaurea jacea</i>	(brown knapweed)	Rare	WDV	I	
L15	(Infrequent & ?)				Roadsides, fields and waste places
<i>Cerastium arvense</i>	(field chickweed)	Infrequent	Russell	N	
			Gravelly, turf or rocky basic soils		
<i>Cerastium fontanum</i>	(larger mouse-ear chickweed)	Common	WDV	I	
D11, F16	(Infrequent & Scattered)				Roadsides, fields and cultivated ground
<i>Cerastium glomeratum</i>	(lesser mouse-ear chickweed)	Frequent	WDV	I	
F14	(Frequent & Widespread)				Waste places, fields and roadsides
<i>Cerastium nutans</i>	(nodding chickweed)	Frequent	Russell & WDV	N	
G17	(Infrequent & Scattered)				Alluvium, rich wooded slopes and calcareous rocks
<i>Ceratophyllum demersum</i>	(hornwort)	Rare	Russell	N	OW
					Quiet waters
<i>Chaenorrhinum minus</i>	(dwarf snapdragon)	Rare	Russell & WDV	I	
E11	(Rare & Scattered ?)				Waste places and roadsides
<i>Chamaecrista nictitans</i>	(wild sensitive plant)	Frequent	Russell & WDV	N	
E12, G13, K12	(Infrequent & Scattered)				Sandy soil
<i>Chamaesyce maculata</i>	(wartweed)	Common	Russell & WDV	N	
E11 E16	(Infrequent & Scattered)				Dry open soil and roadsides
<i>Chamaesyce nutans</i>	(upright spotted spurge)	Common	WDV	I	
F6, J12	(Frequent & Scattered)				Dry open soil, waste places and roadsides

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Chelone glabra</i>	(turtlehead)	Common	Russell	N	OW
		Low grounds, margins of streams and swales			
<i>Chenopodium album</i>	(lamb's quarters)	Frequent	Russell	I	
		Cultivated and waste ground			
<i>Chenopodium ambrosioides</i>	(Mexican tea)	Frequent	Russell	I	
		Cultivated and waste ground			
<i>Chimaphila maculata</i>	(spotted wintergreen)	Common	Russell & WDV	N	
D15, D16	(Infrequent & Widespread)				Dry woods
<i>Chrysanthemum leucanthemum</i>	(oxeye daisy)	Common	Russell & WDV	I	
M15	(Common & Widespread)				Fields
<i>Chrysosplenium americanum</i>	(golden saxifrage)	Frequent	Russell & WDV	N	OW
E12, K11	(Infrequent & Local)				Springheads, rills and cold wet places
<i>Cichorium intybus</i>	(chicory)	Common	Russell & WDV	I	
M15	(Common & Widespread)				Roadsides and fields
<i>Cimicifuga racemosa</i>	(black snakeroot)	Common	Russell & WDV	N	
M14	(Rare & Local ?)				Rich woods
<i>Circaea lutetiana</i>	(enchanter's nightshade)	Common	Russell & WDV	N	
M11	(Frequent & Scattered)				Rich woods, thickets and ravines
<i>Cirsium arvense</i>	(Canada thistle)	Frequent	Russell & WDV	I	
M15	(Common & Widespread)				Cultivated and waste ground
<i>Cirsium discolor</i>	(field thistle)	Common	WDV	N	
F12	(Infrequent & Scattered ?)				Thickets, river banks and prairies
<i>Cirsium pumilum</i>	(pasture thistle)	Frequent	WDV	N	
M15	(Infrequent & Scattered)				Dry open soil
<i>Cirsium vulgare</i>	(bull thistle)	Frequent	Russell & WDV	I	
M15	(Infrequent & ?)				Clearings, pastures and roadsides
<i>Claytonia virginica</i>	(spring beauty)	Common	Russell	N	
		Rich woods, thickets and clearings			
<i>Clematis virginiana</i>	(virgin's bower)	Frequent	Russell	N	
		Low grounds, thickets and borders of woods			
<i>Collinsonia canadensis</i>	(horse balm)	Frequent	Russell	N	
		Rich woods			
<i>Conyza canadensis</i>	(horseweed)	Common	Russell	N	
		Waste places and cultivated fields			
<i>Coronilla varia</i>	(crown vetch)	Rare	Russell	I	
		Roadsides and waste places			
<i>Cryptotaenia canadensis</i>	(honeysuckle)	Common	Russell & WDV	N	
J12	(Infrequent & Scattered)				Rich woods and thickets
<i>Cunila origanoides</i>	(American dittany)	Frequent	Russell	N	
		Dry open woods, thickets and clearings			
<i>Cynoglossum virginianum</i>	(wild comfrey)	Frequent	Russell	N	
		Open deciduous woods			

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Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Daucus carota</i>	(Queen Anne's lace)	Common	Russell & WDV	I	
M15	(Frequent & Scattered)		Dry fields and waste places		
<i>Desmodium canescens</i>	(hoary tick trefoil)	Infrequent	Russell	N	
			Dry sandy woods and fields		
<i>Desmodium nudiflorum</i>	(naked-flowered tick trefoil)	Common	Russell & WDV	N	
K12	(Frequent & Widespread)		Rich or dry woods		
<i>Desmodium paniculatum</i>	(panicked tick trefoil)	Common	Russell & WDV	N	
L13, L15	(Frequent & Widespread)		Clearings and borders of dry woods		
<i>Desmodium perplexum</i>	(Dillen's tick trefoil)	Frequent	Russell & WDV	N	
L13	(Frequent & Scattered)		Sandy woods		
<i>Desmodium rotundifolium</i>	(round-leaved tick trefoil)	Frequent	Russell	N	
			Dry woods		
<i>Dianthus armeria</i>	(Deptford pink)	Frequent	Russell & WDV	I	
F14, M15	(Frequent & Widespread)		Dry fields and roadsides		
<i>Echium vulgare</i>	(viper's bugloss)	Infrequent	Russell	I	
			Roadsides, dry fields and waste places		
<i>Epifagus virginiana</i>	(beechdrops)	Frequent	Russell	N	
			Under beech trees		
<i>Epilobium coloratum</i>	(purple-leaved willow-herb)	Frequent	WDV	N	OW
F12, L12	(Infrequent & Scattered)		Low grounds and springy slopes		
<i>Erechtia hieraciifolia</i>	(fireweed)	Common	Russell & WDV	N	
E12	(Infrequent & Scattered)		Damp thickets, clearings and shores		
<i>Erigeron annuus</i>	(daisy fleabane)	Common	Russell & WDV	N	
F14, M15	(Frequent & Widespread)		Fields and waste places		
<i>Erigeron philadelphicus</i>	(common fleabane)	Common	Russell & WDV	N	
F12	(Not reported & Scattered)		Rich thickets, alluvium, shores and springy slopes		
<i>Erigeron pulchellus</i>	(Robin's plantain)	Frequent	Russell & WDV	N	
M15, D11	(Frequent & Scattered)		Copses, open woods and meadows		
<i>Erigeron strigosus</i>	(lesser daisy fleabane)	Common	Russell & WDV	N	
M15	(Common & Widespread)		Dry open soil, rocky slopes, pastures and fields		
<i>Eupatorium fistulosum</i>	(hollow Joe Pye weed)	Common	Russell & WDV	N	
L11	(Rare & Scattered)		Damp thickets and meadows		
<i>Eupatorium perfoliatum</i>	(common boneset)	Common	Russell & WDV	N	
L12	(Infrequent & Scattered)		Low woods, thickets, swales, wet shores and prairies		
<i>Eupatorium rugosum</i>	(white snakeroot)	Common	Russell & WDV	N	
E11	(Common & Scattered)		Rich woods, clearings and thickets		
<i>Eupatorium sessilifolium</i>	(upland boneset)	Frequent	Russell	N	
			Rich, often calcareous, woods, thickets and bluffs		
<i>Euthamia graminifolia</i> var. <i>nuttallii</i>	(Nuttall's flat-topped goldenrod)	Common	Russell	N	
<i>Fragaria virginiana</i>	(wild strawberry)	Common	Russell	N	
			Fields, open slopes and borders of woods		

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Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Galinsoga quadriradiata</i>	(quickweed)	Common	Russell & WDV	I	
G13	(Frequent & Scattered)		Gardens, yards and waste places		
<i>Galium aparine</i>	(common cleavers)	Common	Russell	N/I	
			Rich woods, thickets and waste places		
<i>Galium asprellum</i>	(rough bedstraw)	Frequent	WDV	N	OW
F12	(Infrequent & Scattered ?)		Low grounds and damp thickets		
<i>Galium circaeazans</i>	(wild licorice)	Frequent	Russell & WDV	N	
D12, F14	(Infrequent & Scattered)		Rich woods		
<i>Galium obtusum</i>	(obtusely-leaved bedstraw)	Infrequent	Russell & WDV	N	
D12	(Infrequent & Scattered)		Low woods, swamps and wet shores		
<i>Galium pilosum</i>	(hairy bedstraw)	Frequent	WDV	N	
L15	(Infrequent & Scattered ?)		Dry woods and copses		
<i>Galium tinctorium</i>	(Clayton's bedstraw)	Frequent	Russell & WDV	N	OW
D12	(Infrequent & Scattered ?)		Swamps and damp places		
<i>Galium triflorum</i>	(sweet-scented bedstraw)	Frequent	Russell & WDV	N	
L15	(Infrequent & Scattered ?)		Woods and thickets		
<i>Gaura biennis</i>	(biennial gaura)	Infrequent	Russell	N	
			Damp shores and meadows		
<i>Gentiana andrewsii</i>	(fringe-tip closed gentian)	Frequent	Russell	N	
			Meadows, damp prairies and low thickets		
<i>Gentianopsis crinita</i>	(fringed gentian)	Infrequent	Russell	N	OW
			Meadows, brooksides, wet thickets and low woods		
<i>Geranium maculatum</i>	(wild geranium)	Common	Russell	N	
			Woods, thickets and meadows		
<i>Geum canadense</i>	(white avens)	Common	Russell & WDV	N	
D16	(Infrequent & Scattered)		Rich thickets and borders of woods		
<i>Glechoma hederacea</i>	(gill-over-the-ground)	Common	Russell	I	
			Roadsides, yards and damp shady places		
<i>Gnaphalium obtusifolium</i>	(fragrant cudweed)	Common	Russell	N	
			Dry clearings, borders of woods and fields		
<i>Gratiola neglecta</i>	(hedge hyssop)	Frequent	Russell	N	OW
			Wet or muddy places		
<i>Hackelia virginiana</i>	(stickseed)	Frequent	WDV	N	
D10	(Infrequent & Scattered)		Rich woods and thickets		
<i>Hedyotis caerulea</i>	(blueets)	Common	Russell & WDV	N	
E10	(Infrequent & Scattered)		Open turfey slopes and fields		
<i>Hepatica nobilis</i> var. <i>obtus</i>	(liverwort)	Common	Russell	N	
			Dry woods		
<i>Heuchera americana</i>	(alumroot)	Common	Russell	N	
			Loamy woods and shaded calcareous slopes		
<i>Hibiscus trionum</i>	(flower-of-an-hour)	Frequent	Russell	I	
			Cultivated and waste ground		

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Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Hieracium caespitosum</i>	(field hawkweed)	Frequent	Russell & WDV	I	
M15	(Frequent & Scattered)		Clearings, pastures and grasslands		
<i>Hieracium flagellare</i>	(green mouse-ear hawkweed)	Infrequent	Russell & WDV	I	
M15	(Frequent & Widespread)				
<i>Hieracium paniculatum</i>	(panicked hawkweed)	Frequent	WDV	N	
K12, M11	(Frequent & Scattered)				Open woods
<i>Hieracium piloselloides</i>	(king devil)	Infrequent	WDV	I	
M15	(Infrequent & Scattered)		Fields, clearings and roadsides		
<i>Hieracium scabrum</i>	(rough hawkweed)	Frequent	Russell	N	
			Dry open woods, pastures and clearings		
<i>Hieracium venosum</i>	(rattlesnake hawkweed)	Frequent	Russell	N	
			Open woods and clearings		
<i>Hydrocotyle americana</i>	(marsh pennywort)	Frequent	Russell	N	OW
			Meadows and damp woods		
<i>Hydrophyllum virginianum</i>	(Virginia waterleaf)	Frequent	Russell	N	
			Rich woods and damp clearings		
<i>Hypericum mutilum</i>	(dwarf St. John'swort)	Common	Russell & WDV	N	
F12	(Rare & Local ?)				Low grounds
<i>Hypericum perforatum</i>	(common St. John'swort)	Common	Russell & WDV	I	
M15	(Infrequent & Scattered)		Dry pastures, roadsides and neglected fields		
<i>Hypericum punctatum</i>	(spotted St. John'swort)	Frequent	Russell & WDV	N	
M15	(Infrequent & Scattered)		Thickets, borders of woods and damp openings		
<i>Impatiens capensis</i>	(spotted jewelweed)	Common	Russell & WDV	N	
F12, K12	(Frequent & Scattered)		Wet or springy places		
<i>Jeffersonia diphylla</i>	(twinleaf)	Not reported	WDV	N	
18	(Infrequent & Scattered)				Woods
<i>Krigia biflora</i>	(Cynthia)	Frequent	Russell & WDV	N	
M15	(Frequent & Scattered)		Open woods, prairies and meadows		
<i>Lactuca canadensis</i> var. <i>latifolia</i>	(broad-leaved wild lettuce)	Infrequent	Russell	N	
<i>Lamium amplexicaule</i>	(henbit)	Frequent	Russell	I	
			Waste places, roadsides and fallow fields		
<i>Lamium purpureum</i>	(purple deadnettle)	Frequent	Russell	I	
			Roadsides and waste places		
<i>Laportea canadensis</i>	(wood nettle)	Frequent	Russell	N	
			Low woods and stream banks		
<i>Lepidium campestre</i>	(field peppergrass)	Common	Russell	I	
			Waste places, roadsides and fields		
<i>Lespedeza cuneata</i>	(wedge-shaped bush clover)	Rare	WDV	I	
D11	(Frequent & Scattered)				Roadsides
<i>Lespedeza intermedia</i>	(wand-like bush clover)	Common	Russell	N	
			Dry open woods and thickets		

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Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Lespedeza repens</i>	(creeping bush clover)	Frequent	Russell	N	
		Sandy or rocky open woods, thickets and clearings			
<i>Lespedeza virginica</i>	(slender bush clover)	Frequent	Russell	N	
		Dry open woods, thickets and barrens			
<i>Liatris spicata</i>	(blazing star)	Infrequent	WDV	N	
L15	(Rare & Local ?)	Meadows, damp slopes and borders of marshes			
<i>Linaria vulgaris</i>	(butter-and-eggs)	Common	Russell & WDV	I	
F14	(Infrequent & Scattered)	Roadsides, dry fields and waste places			
<i>Lobelia cardinalis</i>	(cardinal flower)	Frequent	Russell & WDV	N	
F12	(Rare & Local)	Damp shores, meadows and swamps			
<i>Lobelia inflata</i>	(Indian tobacco)	Common	Russell & WDV	N	
D10	(Infrequent & Scattered)	Fields, roadsides, waste places and open woods			
<i>Lobelia spicata</i>	(spiked lobelia)	Frequent	Russell	N	
		Rich meadows, fields and thickets			
<i>Lonicera japonica</i>	(Japanese honeysuckle)	Common	Russell & WDV	I	
F16	(Common & Widespread)	Thickets, borders of woods and roadsides			
<i>Lotus corniculatus</i>	(bird's-foot trefoil)	Infrequent	Russell & WDV	I	
M15	(Rare & Local ?)	Fields, roadsides and waste places			
<i>Ludwigia alternifolia</i>	(seedbox)	Frequent	Russell & WDV	N	
E12	(Rare & Local ?)	Swamps			
<i>Ludwigia palustris</i> var. <i>americana</i>	(water purslane)	Common	Russell	I	OW
		Wet open places, shores or shallow water			
<i>Lycopus americanus</i>	(water horehound)	Frequent	Russell & WDV	N	OW
F12	(Infrequent & Scattered)	Low grounds			
<i>Lycopus uniflorus</i>	(northern bugleweed)	Common	Russell	N	OW
		Low ground			
<i>Lycopus virginicus</i>	(bugleweed)	Common	Russell & WDV	N	OW
L11	(Infrequent & Scattered ?)	Rich moist soil			
<i>Lyssimachia ciliata</i>	(fringed loosestrife)	Frequent	Russell & WDV	N	
E12	(Infrequent & Scattered)	Low grounds, thickets, rich woods and shores			
<i>Lyssimachia quadrifolia</i>	(whorled loosestrife)	Common	Russell & WDV	N	
K12	(Infrequent & Scattered)	Dry or moist open woods, thickets and shores			
<i>Medicago lupulina</i>	(black medic)	Common	Russell & WDV	I	
D11, E11	(Frequent & Scattered)	Roadsides and waste places			
<i>Melampyrum lineare</i> var. <i>americanum</i>	(cow wheat)	Frequent	Russell & WDV	N	
F14	(Infrequent & Scattered)	Dry woods			
<i>Melilotus alba</i>	(white sweet clover)	Common	Russell	I	
		Rich soil and roadsides			
<i>Melilotus officinalis</i>	(yellow sweet clover)	Common	Russell & WDV	I	
F14	(Infrequent & Scattered)	Waste or cultivated ground			
<i>Mentha arvensis</i>	(wild mint)	Infrequent	Russell	N	
		Damp open soils and shores			

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Hopewell Locations (Occurrence and Distribution)		Natural Habitat			
<i>Mentha piperita</i> (peppermint)		Frequent	Russell & WDV	I	
L13 (Rare & Local ?)			Brooksides and wet meadows		
<i>Mentha spicata</i> (spearmint)		Frequent	WDV	I	
E12 (Infrequent & Local?)			Wet places		
<i>Mikania scandens</i> (climbing hempweed)		Infrequent	Russell & WDV	N	
F12, K12, L11 (Infrequent & Scattered)			Thickets, swamps and stream banks		
<i>Mimulus alatus</i> (sharp-winged monkey-flower)		Infrequent	Russell & WDV	N	OW
D12, K12 (Rare & Local)			Swamps and low ground		
<i>Mimulus ringens</i> (square-stemmed monkey flower)		Frequent	Russell & WDV	N	OW
F12 (Rare & Local?)			Shores, meadows and wet places		
<i>Mitchella repens</i> (partridge berry)		Common	Russell	N	
			Dry or moist knolls in woods		
<i>Mitella diphylla</i> (mitrewort)		Frequent	Russell	N	
			Loamy and rocky woods		
<i>Monotropa uniflora</i> (Indian pipe)		Frequent	Russell & WDV	N	
F14, L12 (Infrequent & Scattered)			Woodland humus		
<i>Myosotis laxa</i> (smaller forget-me-not)		Frequent	Russell	N	OW
			In water and wet ground		
<i>Myosotis scorpioides</i> (true forget-me-not)		Infrequent	Russell & WDV	I	OW
E12, G14 (Infrequent & Scattered)			In quiet water or wet ground		
<i>Nasturtium microphyllum</i> (small-leaved watercress)		Not reported	Russell & WDV	I	OW
L12 (Rare & Local ?)					
<i>Nepeta cataria</i> (catnip)		Frequent	Russell	I	
			Roadsides and waste places		
<i>Nuphar lutea</i> (spatterdock)		Frequent	Russell	N	OW
			Tidal waters, pond margins and swamps		
<i>Obolaria virginica</i> (pennywort)		Frequent	WDV	N	
G17, H17 (Rare & Local ?)			Moist hardwoods and thickets		
<i>Oenothera biennis</i> (common evening primrose)		Infrequent	Russell	N	
			Dry open soil		
<i>Oenothera fruticosa</i> ssp. <i>glauca</i> (common sundrops)		Infrequent	WDV	N	
M15 (Infrequent & Scattered)			Swales, meadows and damp thickets		
<i>Orobanche uniflora</i> (cancer root)		Infrequent	Russell	N	
			Parasitic on various plants in damp woods		
<i>Osmorhiza claytonii</i> (sweet cicely)		Frequent	Russell	N	
			Woods and wooded slopes		
<i>Osmorhiza longistylis</i> (aniseroot)		Frequent	Russell	N	
			Rich, often alluvial, woods and thickets		
<i>Oxalis dillenii</i> ssp. <i>filipes</i> (southern yellow wood sorrel)		Frequent	Russell & WDV	N	
F14, I12 (Frequent & Scattered)			Sandy thickets, borders of woods and fields		
<i>Oxalis stricta</i> (yellow wood sorrel)		Common	Russell	N	
			Dry open soil		

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Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Panax trifolius</i>	(dwarf ginseng)	Common	Russell & WDV	N	
D12	(Common & Widespread)		Rich woods and damp clearings		
<i>Parthenocissus quinquefolia</i>	(Virginia creeper)	Common	Russell	N	
			Woods and rocky banks		
<i>Pedicularis canadensis</i>	(wood betony)	Frequent	Russell & WDV	N	
K10	(Infrequent & Local)		Woods and clearings		
<i>Pedicularis lanceolata</i>	(swamp lousewort)	Infrequent	Russell	N	
			Rich, often calcareous, meadows and shores		
<i>Penstemon digitalis</i>	(white beardtongue)	Frequent	Russell & WDV	IA	
M15	(Frequent & Scattered)		open woods, meadows, fields and clearings		
<i>Penthorum sedoides</i>	(ditch stonecrop)	Frequent	Russell & WDV	N	OW
D12	(Infrequent & Local ?)		wet low ground		
<i>Perilla frutescens</i>	(beefsteak plant)	Infrequent	Russell	I	
			Roadsides and waste places		
<i>Phryma leptostachya</i>	(lopseed)	Frequent	Russell & WDV	N	
D16	(Infrequent & Scattered)		Rich thickets and woods		
<i>Physalis subglabrata</i>	(smooth ground cherry)	Frequent	Russell	N	
			Shores, meadows, fields, roadsides and waste places		
<i>Phytolacca americana</i>	(pokeweed)	Common	Russell	N	
			Rich low ground, recent clearings and roadsides		
<i>Pilea pumila</i>	(cleaverweed)	Common	Russell & WDV	N	
K11, K12	(Frequent & Scattered)		Cool and moist shaded places		
<i>Plantago lanceolata</i>	(English plantain)	Common	Russell & WDV	I	
E14	(Abundant & Widespread)		Grasslands		
<i>Plantago major</i>	(broadleaf plantain)	Infrequent	Russell & WDV	I	
E11, G13	(Infrequent & Scattered)		Roadsides and dooryards		
<i>Plantago rugelii</i>	(Rugel's plantain)	Common	WDV	N	
M15	(Frequent & Scattered)		Damp shores, roadsides and waste places		
<i>Podophyllum peltatum</i>	(May apple)	Common	Russell	N	
			Rich woods, thickets and pastures		
<i>Polygonum arenastrum</i>	(knotweed)	Rare	WDV	I	
23	(Frequent & Scattered)				
<i>Polygonum arifolium</i>	(halberd-leaved tearthumb)	Common	Russell & WDV	N	OW
G14	(Common & Widespread)		Wet places, especially tidal marshes		
<i>Polygonum aviculare</i>	(prostrate knotweed)	Common	Russell	I	
			Disturbed soil, roadsides and gardens		
<i>Polygonum caespitosum</i>	(creeping smartweed)	Common	Russell & WDV	I	
F13	(Frequent & Scattered)		Roadsides, waste places, shores and damp places		
<i>Polygonum hydropiper</i>	(water pepper)	Common	WDV	I	OW
F12	(Rare & Local ?)		Damp soils		
<i>Polygonum pennsylvanicum</i> var. <i>laevigatum</i>	(smooth pinkweed)	Frequent	Russell	N	

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Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Polygonum punctatum</i> var. <i>confertiflorum</i> G14 (Infrequent & Local ?)	(slender-spiked water smart)	Common	Russell & WDV	N	OW
<i>Polygonum sagittatum</i> G13 (Frequent & Widespread)	(arrow-leaved tearthumb)	Common	Russell & WDV	N	OW Low grounds
<i>Polygonum scandens</i> (climbing false buckwheat)		Common	Russell	N	Damp thickets, low woods, bottoms and shores
<i>Polygonum virginianum</i> K11 (Frequent & Scattered)	(Virginia knotweed)	Common	Russell & WDV	N	Rich woodlands and thickets
<i>Potentilla canadensis</i> (dwarf cinquefoil)		Common	Russell	N	March-June
<i>Potentilla intermedia</i> (downy cinquefoil)		Not reported	Russell	I	Roadsides and waste places
<i>Potentilla norvegica</i> (rough cinquefoil)		Common	Russell	IA	Thickets, clearings, roadsides and waste places
<i>Potentilla recta</i> (rough-fruited cinquefoil)		Frequent	Russell	I	Dry fields and roadsides
<i>Potentilla simplex</i> E14, M15 (Common & Widespread)	(common cinquefoil)	Common	Russell & WDV	N	Dry or moist fields, thickets and open woods
<i>Prenanthes altissima</i> M14 (Infrequent & Scattered)	(tall white lettuce)	Frequent	WDV	N	Moist woods
<i>Prunella vulgaris</i> ssp. <i>lanceolata</i> M15 (Frequent & Widespread)	(lance-leaved heal-all)	Common	WDV	IA	Open woods, thickets and roadsides
<i>Pycnanthemum tenuifolium</i> (narrow-leaved mountain mint)		Frequent	Russell	N	Dry to moist siliceous or argillaceous open ground
<i>Pycnanthemum virginianum</i> E12, F12 (Infrequent & Local)	(Virginia mountain mint)	Frequent	Russell & WDV	N	Gravelly shores, meadows and thickets
<i>Pyrola americana</i> (round-leaved pyrola)		Frequent	Russell	N	Woods and clearings
<i>Ranunculus abortivus</i> H12 (Frequent & Scattered)	(small-flowered crowfoot)	Common	Russell & WDV	N	Low woods, thickets, clearings and damp shores
<i>Ranunculus bulbosus</i> D11 (Common & Widespread)	(bulbous buttercup)	Frequent	Russell & WDV	I	Pastures, fields, open woods and roadsides
<i>Ranunculus caricetorum</i> H14 (Infrequent & Local)	(swamp buttercup)	Frequent	WDV	N	OW Alluvial thickets, woods and meadows
<i>Ranunculus hispidus</i> (hairy buttercup)		Infrequent	Russell	N	rich moist woods
<i>Ranunculus recurvatus</i> (hooked crowfoot)		Common	Russell	N	Damp or swampy rich woods
<i>Rorippa sylvestris</i> (creeping yellow cress)		Frequent	Russell	I	Meadows, shores and roadsides
<i>Rubus allegheniensis</i> E12 (Infrequent & Scattered)	(mountain blackberry)	Frequent	Russell & WDV	N	Dry clearings and thickets

Technical Name	(Colloquial Name)	Occurrence in Southeastern Pennsylvania	Hopewell Sightings	N / I	Special Status
Hopewell Locations (Occurrence and Distribution)				Natural Habitat	
<i>Rubus enslenii</i>	(southern dewberry)	Infrequent	Russell	N	
		Dry or moist open woods and thickets			
<i>Rubus hispidus</i>	(swamp dewberry)	Frequent	Russell	N	
		Moist or dry open soil, ditches, swales and woods			
<i>Rubus occidentalis</i>	(black raspberry)	Common	Russell	N	
		Rich thickets, ravines and borders of woods			
<i>Rubus pennsylvanicus</i>	(blackberry)	Common	WDV	N	
M15	(Infrequent & Scattered)	Thickets, borders of woods, clearings and burns			
<i>Rubus phoenicolasius</i>	(wineberry)	Common	Russell & WDV	I	
M10	(Frequent & Scattered)	Roadsides, thickets and open woods			
<i>Rudbeckia hirta</i> var. <i>pulcherrima</i>	(black-eyed Susan)	Common	Russell & WDV	IA	
M15	(Infrequent & Scattered)				
<i>Rudbeckia laciniata</i>	(cutleaf coneflower)	Common	Russell	N	
		Rich low ground			
<i>Rumex acetosella</i>	(sheep sorrel)	Common	Russell	I	
		Old fields and sour soils			
<i>Rumex crispus</i>	(curled dock)	Common	Russell	I	
		Cultivated and waste soil and old fields			
<i>Rumex obtusifolius</i>	(bitter dock)	Common	Russell	I	
		Roadsides and waste places			
<i>Sagina decumbens</i>	(decumbent pearlwort)	Rare	WDV	I	
D16	(Rare & Local)	Moist to dryish sandy fields and openings			
<i>Salvia lyrata</i>	(lyre-leaved sage)	Frequent	Russell	N	
		Sandy open woods and clearings			
<i>Sanguinaria canadensis</i>	(bloodroot)	Common	Russell & WDV	N	
E12, E18	(Frequent & Scattered)	Rich woods			
<i>Sanicula canadensis</i>	(short-styled black snakeroot)	Common	WDV	N	
D16	(Infrequent & Scattered)	Dry open woods			
<i>Saponaria officinalis</i>	(bouncing Bet)	Common	Russell & WDV	I	
D10	(Infrequent & Scattered)	Roadsides			
<i>Satureja vulgaris</i>	(wild basil)	Frequent	Russell & WDV	N	
D10, F14	(Infrequent & Widespread)	Woods, thickets and rocky or alluvial shores			
<i>Saxifraga pennsylvanica</i>	(swamp saxifrage)	Frequent	Russell	N	OW
		Wet meadows, swamps, boggy thickets and seeping banks			
<i>Scutellaria elliptica</i>	(hairy skullcap)	Frequent	Russell	N	
		Dry woods and thickets			
<i>Scutellaria integrifolia</i>	(hyssop skullcap)	Frequent	Russell & WDV	N	
F12	(Frequent & Local ?)	Borders of woods, thickets and clearings			
<i>Scutellaria lateriflora</i>	(mad-dog skullcap)	Frequent	Russell & WDV	N	
D12	(Infrequent & Local ?)	Alluvial thickets, meadows and swampy woods			
<i>Sedum telephium</i>	(live-forever)	Infrequent	Russell	I	
		Roadsides and borders of fields			

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<i>Senecio aureus</i>	(golden ragwort)	Common	Russell & WDV	N	
K12	(Infrequent & Local)		Meadows, swamps and bogs		
<i>Silene alba</i>	(white campion)	Common	Russell	I	
		Roadsides, borders of fields and waste places			
<i>Silene vulgaris</i>	(bladder campion)	Infrequent	Russell	I	
		Roadsides, borders of fields and gravelly shores			
<i>Sisymbrium officinale</i> var. <i>leiocarpum</i>	(smooth-fruited hedge mustard)	Frequent	Russell	I	
<i>Solanum carolinense</i>	(horse nettle)	Common	WDV	IA	
I12, J12	(Frequent & Widespread)	Sandy openings, fields and waste places			
<i>Solidago bicolor</i>	(silverrod)	Common	Russell	N	
		Dry sterile open soil or thin woods			
<i>Solidago caesia</i>	(blue-stemmed goldenrod)	Common	Russell & WDV	N	
M15	(Frequent & Scattered)	Rich deciduous or open woods, thickets and clearings			
<i>Solidago canadensis</i> var. <i>hageri</i>	(Hager's Canada goldenrod)	Common	Russell	N	
<i>Solidago canadensis</i> var. <i>scabra</i>	(tall goldenrod)	Common	Russell	N	
		Dry to damp thickets, clearings and roadsides			
<i>Solidago juncea</i>	(early goldenrod)	Common	Russell & WDV	N	
M15	(Frequent & Scattered)	Dry open soil			
<i>Solidago nemoralis</i>	(gray goldenrod)	Common	Russell & WDV	N	
M15	(Common & Scattered)	Dry sterile siliceous or argillaceous open soil			
<i>Solidago rugosa</i>	(wrinkle-leaf goldenrod)	Common	Russell	N	
		Damp open soil, thickets and borders of woods			
<i>Stellaria alsine</i>	(bog chickweed)	Frequent	Russell	N	OW
		Springheads, borders of rill and wet places			
<i>Stellaria longifolia</i>	(long-leaved chickweed)	Frequent	Russell & WDV	N	
G14	(Infrequent & Local?)	Damp thickets, meadows and shores			
<i>Stellaria media</i>	(common chickweed)	Common	Russell & WDV	I	
J12	(Frequent & Widespread)	Cultivated ground, waste places, damp woods and thickets			
<i>Stellaria pubera</i>	(star chickweed)	Infrequent	Russell	N	
		Rich woods and shaded rocky slopes			
<i>Symphytum officinale</i>	(comfrey)	Rare	Russell	I	
		Damp roadsides and waste places			
<i>Taraxicum officinale</i>	(dandelion)	Common	Russell	I	
		Grasslands and open grounds			
<i>Thalictrum pubescens</i>	(tall meadow rue)	Common	Russell	N	
		Meadows, low thickets and swamps			
<i>Thalictrum thalictroides</i>	(rue anemone)	Common	Russell & WDV	N	
G17, H17, N11	(Frequent & Scattered)	Open woods			
<i>Thlaspi arvense</i>	(field pennycress)	Frequent	Russell & WDV	I	
E17, G17	(Common & Scattered)	Roadsides, waste places and fields			

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Hopewell Locations (Occurrence and Distribution)					Natural Habitat
<i>Toxicodendron radicans</i>	(poison ivy)	Common	Russell & WDV	N	
M15	(Frequent & Widespread)				
<i>Tragopogon major</i>	(goat's beard)	Rare	WDV	I	
M15	(Rare & Local ?)				Fields and roadsides
<i>Trifolium aureum</i>	(hop clover)	Frequent	WDV	I	
F12, M15	(Infrequent & Scattered)				Roadsides, waste places and dry fields
<i>Trifolium campestre</i>	(low hop clover)	Infrequent	Russell	I	
					Roadsides, waste places and old fields
<i>Trifolium pratense</i>	(red clover)	Common	Russell & WDV	I	
F12, M15	(Common & Widespread)				
<i>Trifolium repens</i>	(white clover)	Common	Russell	I	
					Grasslands and roadsides
<i>Triodanis perfoliata</i>	(Venus' looking glass)	Common	Russell	N	
					Sterile open ground
<i>Tussilago farfara</i>	(coltsfoot)	Rare	Russell & WDV	I	
J12	(Rare & Local)				Damp argillaceous soils and brooksides
<i>Verbascum blattaria</i>	(moth mullein)	Common	Russell & WDV	I	
F14	(Infrequent & Scattered)				Roadsides and old fields
<i>Verbascum thapsus</i>	(wooly mullein)	Common	Russell & WDV	I	
E12	(Infrequent & Scattered)				Fields and rocky or gravelly banks
<i>Verbena hastata</i>	(blue vervain)	Frequent	Russell & WDV	N	
E12	(Infrequent & Local ?)				Swales, damp thickets and shores
<i>Verbena urticifolia</i>	(white vervain)	Common	Russell & WDV	N	
F12	(Common & Scattered)				Rich thickets and borders of woods
<i>Veronica americana</i>	(American brooklime)	Frequent	Russell	N	OW
					Shallow water, springheads, rills and swamps
<i>Veronica arvensis</i>	(corn speedwell)	Common	Russell	I	
					Waste open ground
<i>Veronica officinalis</i>	(common speedwell)	Common	Russell & WDV	N	
M15	(Frequent & Widespread)				Dry hills, open woods and fields
<i>Veronica peregrina</i>	(purslane speedwell)	Common	Russell	N	
					Damp open soil, roadsides
<i>Veronica persica</i>	(bird's eye)	Infrequent	WDV	I	
E11	(Infrequent & Local)				Wet places and roadsides
<i>Veronica serpyllifolia</i>	(thyme-leaved speedwell)	Common	WDV	I	
E11, K12	(Infrequent & Scattered)				Grassy places, roadsides and damp open woods
<i>Vinca minor</i>	(periwinkle)	Infrequent	Russell	I	
					Roadsides
<i>Viola affinis</i>	(Le Conte's violet)	Frequent	Russell & WDV	N	
	(Common & Widespread)				Meadows, damp thickets, low woods and shores
<i>Viola affinis</i> (white form)	(albino LeConte's violet)	Not reported	WDV		
G14	(Rare & Local)				