

FINAL REPORT
OF
**REVIEW OF PLANT SPECIES LISTS FOR NEW RIVER GORGE NATIONAL RIVER,
BLUESTONE NATIONAL SCENIC RIVER, AND GAULEY NATIONAL
RECREATION AREA**

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REVIEW OF PLANT SPECIES LISTS FOR NEW RIVER GORGE NATIONAL RIVER, BLUESTONE NATIONAL SCENIC RIVER, AND GAULEY NATIONAL RECREATION AREA

Introduction

The National Park Service (NPS) is in the process of completing background reviews to determine what data need to be gathered to fully meet guidelines for land management planning in the river parks of West Virginia.

Considerable botanical field work has been done on the New River since the collecting by L. M. Nuttall and C. F. Millspaugh in the 1890's. Tosh (1942) studied the flora of Raleigh County, and Boone (1961) surveyed the flora of Summers County, while Phillips (1969) focused specifically on the New River Gorge. Subsequent floristic and vegetation studies were conducted by Grafton and McGraw (1976), Grafton (1982), Fortney, et al. (1995) and Suiter and Evans (1999). Studies by Rouse and McDonald (1986) and McDonald and Harmon (1990) deal specifically with rare species. J. Vanderhorst continues plant community characterization and mapping that began in 1999.

Less attention has been given to the Gauley and Bluestone Rivers. The vegetation study by Fortney, et al. (ibid) as well as a floristic study by Grafton (1993) include these rivers, and Norris (1992a, 1992b) undertook rare species surveys. There are also some data available for the Gauley from vegetation sample plots by Walton and Anderson (1997) and a study of birds in hemlock communities by Wood (2001).

These and other sources (such as herbarium specimen label data) have enabled the NPS to compile vascular plant species lists for the three river parks. The database used, NPSpecies, provides several fields for additional information on each species, such as abundance and nativity in the given park. In May 2001, NPS requested a review of these three NPSpecies lists preliminary to planning for future field work, and to determine the percent of plant species documented, the objective being to reach a level of 90% documentation.

Objectives

Specifically, the objectives of this study are:

1. To compile lists of vascular plant species very likely to occur and determine the percent of plants documented for each of the three parks.
2. To review the NPSpecies vascular plant lists, making corrections and additions to fields where available data or personal knowledge make that possible.
3. To make recommendations for future botanical work.

Methods

Percent documented. The percent of species documented is equal to the number of species documented divided by the number of species present. The actual number of species occurring in a park is not known, of course, and arriving at a close estimate was the real task. This was done for each park by starting with the list of known species (NPSpecies list) and adding additional names of species that are very likely to be found there in the near future. A list of species documented from counties surrounding the park was derived from the Curatorial Database System of the West Virginia Division of Natural Resources, Natural Heritage Program. To these were added any species so common in the region that they can be assumed to occur in the park, though they may not have been collected there

because of their very ubiquitousness. Species that are limited to special habitats not occurring in the park, e.g., shale barren endemics, were eliminated, as were any whose range we believe does not extend to the park in question.

In compiling the "very likely to occur" lists, many species were considered that are reasonably common in the region, but might or might not be found in the much more limited area of a given park. For example, two species of *Asclepias* have been documented from Bluestone National Scenic River. I would consider another six to be "very likely". But it is far less likely that *all six* of these milkweeds will be found in this small and mostly densely forested park. Probably only three or four of them will eventually be found here, but which three or four? And only time will tell if any or all are here. I counted all six as very likely, and cases such as this have probably resulted in slightly inflated lists and lower percent-documented numbers. Nevertheless, experience has shown us that this source of error will be somewhat offset by the number of unexpected plants that will inevitably be found.

Subspecific taxa (varieties and subspecies) were not considered in making species lists and calculating percent documented. Percent documented was rounded to the nearest whole number.

NPSpecies plant lists. The vascular plant portion of the NPSpecies database was examined for each of the three parks. Corrections were made, and additional data were added where that could be done with confidence.

Each record (Park-Species Profile) was first examined and compared to other records to see if it was indeed a "good record", not in error and not a duplicate of other records for the same plant under different names. A few records seemed so unlikely that they were assumed to be errors and were tagged for deletion by entering "False Report" in Park Status. A few others were deemed very unlikely, but possible, and called "Unconfirmed". Although there are two or three very old records of rare species, these were not called "Historic" because they have not been searched for thoroughly in recent times. Most species were considered "Present in Park".

A Park Status entry of "False Report" was used most often to indicate a duplicate record. This was usually a misspelled name, a synonym for a species recorded under another name, or a genus name alone when there are species also reported under that genus. When one record is under a species name and another is under that name plus a variety or subspecies, I normally considered the species-name-only record to be a duplicate record - unless other subspecific taxa are likely to occur in that park, in which case I retained both records.

This brings us to a regrettable practice that causes major confusion. In some cases, it was apparent that the subspecific name had been added as an assumption, and not because a plant had been identified to that level. For example, Suiter and Evans (1999) state that after identifying plants with several regional floras, "nomenclature was reconciled with Harmon, et al. (1995) and Kartesz (1994a, 1994b)." This resulted in numerous instances of varieties and subspecies being cited when the actual collections had only been identified to species. Such assumptions of identity based on geography are often unwarranted and inevitably introduce errors. (One example: Harmon and Ford-Werntz (2002) list only var. *acuminata* for *Luzula acuminata*, with the assumption that this is the only variety in West Virginia, and assign that variety to all records in their database. Var. *carolinae* was collected a couple of months ago in Greenbrier County.) Where this was obviously the case, the subspecific taxon was deleted and the species record retained. Where there was only doubt, and evidence was present, the subspecific taxon was retained.

Another potential source of erroneous records is misidentification of plants. Many New River records, especially from vegetation plots, seem doubtful. These specimens are often immature or depauperate, and being uncommon, seem unimportant to the weary researcher - yet a name must go on the form. I flagged for deletion only a very few that were exceedingly unlikely.

All of this illustrates the need for voucher specimens, so doubtful records can be confirmed (or corrected).

Where local usage differs from Standard Scientific Name or Standard Common Names, Preferred Local Names were given. Harmon and Ford-Werntz (2002) served as a general guide, the main departure being retention of the genus *Aster*.

For most species, Abundance could not be determined and was entered only when it could be done with confidence. It seemed prudent to wait for better data rather than to make guesses. Herbarium records, literature reports, and vegetation plot data are not adequate sources.

Nativity was added for almost all species. Uncertainty remains for a few that have both native and European varieties, or that are near the limit of distribution. It was also generally possible to determine Plant Cultivation and Weedy Plant status, though the NPS definition of the latter is poor (taken literally it would include virtually all plants).

Results

The species lists of vascular plants considered very likely to occur in the three river parks are in Appendix A.

The percent of vascular plant species thus far documented was calculated to be: Bluestone National Scenic River, 48%; Gauley River National Recreation Area, 51%; New River Gorge National River, 74%.

A compact disc with the revised NPSpecies databases has been delivered to the NPS Inventory and Monitoring Program, University of Rhode Island, 1 Greenhouse Road #20, Kingston, RI 02881.

Only two species were added to the NPSpecies lists (previous workers have done an impressive job of assembling sources and compiling records). *Pycnanthemum tenuifolium* replaced *P. flexuosum* on the Gauley River list. *P. flexuosum* does not occur in West Virginia, but the name has been misapplied to *P. tenuifolium* here for several decades. *Saxifraga careyana* was added to the New River list. It was long overlooked because of its similarity to *S. virginensis*, but it was recognized a few years ago at several sites across southern West Virginia. It is now tracked as a rare species by the WV Natural Heritage Program.

Recommendations

First, a word about my experience with the NPSpecies database. I found it surprisingly easy to use, after some telephone tutoring by Allison Hamel-LeBlanc in the Rhode Island I&M office. My editing was limited to certain fields, not including Taxonomy and Standard Common Names. There are numerous errors in names, especially common names, that I assume arose from verbatim transcribing from various primary sources. These could be easily cleaned up by someone with a background in systematic botany and a familiarity with the regional flora. I had some difficulty with the definitions of fields and values. My several sources all used the same brief descriptions. Some of these, especially the abundance categories, need expanded explanation.

A great deal of work remains to bring to 90% the level of documentation of vascular plants in the three river parks. Adding to the species lists will proceed slowly if it is seen as incidental to other work in the area. An effort should be undertaken to record *and document with voucher specimens* the plants of the three parks. Vegetation study plots, whether selected subjectively or randomly, cannot be expected to yield as many species as will be found by scouting wide areas for the express purpose of building a complete floristic list.

To maximize the value of such work, vouchers should be collected thoughtfully with the purpose of preserving a great deal of information. This is accomplished by selecting and properly preparing the most complete specimens possible and including reasonably complete label data (Norris 2002). Habitat data is especially valuable and is most often neglected. Although the primary purpose of the voucher may be to document the occurrence of the species, it will find repeated use in varied research for many years to come. The cost of collecting, preparing and preserving a herbarium specimen is considerable - and is the same for a good or a poor specimen. Rare species may be documented with photographs rather than specimens.

Anyone doing botanical work in these parks should carry a checklist of rare species (available from WV Natural Heritage Program), and avoid contributing to the destruction of the plants we are all trying to protect.

Vegetation mapping is currently being done for New River Gorge National River. Vegetation maps should also be prepared for Gauley River National Recreation Area and Bluestone National Scenic River. *Quality control in the form of ground truthing should be done by someone other than the person(s) doing the original mapping.* While handsome maps can be prepared from digital images, the greatest accuracy is achieved by the use of stereo-pair aerial photographs and stereoscope by an experienced photo interpreter combined with spot checking signatures on the

ground. Or so I have been told by National Wetland Inventory personnel and their contractors when I worked with them in Texas.

We like to imagine that the New River Gorge has been well-explored by botanists, and no doubt there has been more work done there than on the Bluestone and Gauley/Meadow. In fact, anytime you get more than 500 feet from a stream, road/trail, or railroad, you are probably in unexplored territory. You are also in an area of lower species diversity, unless there are uncommon habitats such as rock cliffs or wetlands. So while we may think it important to explore the more inaccessible reaches of these parks, we are probably as likely to find new plants and rare species anywhere off the beaten track. Conservation botanists like to say that rare plants occur mostly along roads.

Finally, a field guide to rare plants in the parks (one guide could serve all three parks) would prove a useful tool for NFS personnel and others working in the parks. It would stimulate interest and probably result in the discovery of additional rare plant populations. Such a guide was created by the Monongahela National Forest (USDA Forest Service 1994), and while their effort could be improved upon considerably, the concept is good.

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**APPENDIX A: PLANT SPECIES LIKELY TO OCCUR IN THE PARKS, BUT NOT
YET DOCUMENTED**

BLUESTONE NATIONAL SCENIC RIVER

Abutilon theophrasti
Acer nigrum
Achillea millefolium
Acorus calamus
Agalinis tenuifolia
Agastache nepetoides
Agrimonia gryposepala
Agrimonia pubescens
Agrostemma githago
Agrostis gigantea
Agrostis hyemalis
Agrostis perennans
Albizia julibrissin
Aletris farinosa
Alisma subcordatum
Alliaria petiolata
Allium canadense
Allium tricoccum
Allium vineale
Alnus glutinosa
Amaranthus hybridus
Amaranthus spinosus
Amelanchier sanguinea
Amelanchier spicata
Anagallis arvensis
Andropogon gyrans
Anemone minima
Anemone virginiana
Antennaria howellii
Antennaria neglecta
Antennaria parlinii
Antennaria virginica
Anthemis cotula
Aplectrum hyemale
Apocynum xfloribundum
Apocynum androsaemifolium
Arabidopsis thaliana
Arabis glabra
Arabis lyrata
Arctium minus
Arenaria serpyllifolia
Arisaema dracontium
Aristolochia serpentaria
Aronia arbutifolia
Aronia melanocarpa
Arrhenatherum elatius
Artemisia annua

Artemisia vulgaris
Arthraxon hispidus
Asclepias exaltata
Asclepias incarnata
Asclepias purpurascens
Asclepias quadrifolia
Asclepias variegata
Asclepias verticillata
Asparagus officinalis
Asplenium xtrudellii
Asplenium resiliens
Asplenium ruta-muraria
Aster fragilis
Aster infirmus
Aster novae-angliae
Aster oblongifolius
Aster puniceus
Astragalus canadensis
Aureolaria flava
Aureolaria pedicularia
Avena sativa

Barbarea vulgaris
Berberis canadensis
Berberis thunbergii
Berberis vulgaris
Bidens aristosa
Bidens bipinnata
Bidens cernua
Bidens frondosa
Bidens tripartita
Bignonia capreolata
Blephilia ciliata
Blephilia hirsuta
Brasenia schreberi
Brassica napus
Brassica nigra
Brickellia eupatorioides
Bromus ciliatus
Bromus commutatus
Bromus inermis
Bromus japonicus
Bromus latiglumis
Bromus secalinus
Bromus tectorum
Broussonetia papyrifera
Buglossoides arvensis
Bulbostylis capillaris

Callitriche heterophylla
Calystegia sepium
Cannabis sativa
Capsella bursa-pastoris
Cardamine douglassii
Cardamine hirsuta
Cardamine rotundifolia
Carduus nutans

Carex albicans
Carex albursina
Carex amphibola
Carex argyrantha
Carex baileyi
Carex caroliniana
Carex cephalophora
Carex crinita
Carex debilis
Carex folliculata
Carex frankii
Carex gracilescens
Carex granularis
Carex gynandra
Carex hitchcockiana
Carex interior
Carex intumescens
Carex laevivaginata
Carex laxiculmis
Carex oligocarpa
Carex pedunculata
Carex platyphylla
Carex projecta
Carex stipata
Carex striatula
Carex tribuloides
Carex typhina
Carex umbellata
Carex vesicaria
Carex virescens
Carex vulpinoidea
Carex willdenowii
Carya laciniosa
Carya ovalis
Castanea pumila
Catalpa speciosa
Celtis laevigata
Celtis tenuifolia
Centaurea biebersteinii
Centaurea jacea
Centaurea nigra
Cerastium glomeratum
Cerastium nutans
Chaenorrhinum minus
Chaerophyllum procumbens
Chamaecrista fasciculata
Chamaelirium luteum
Chamaesyce maculata
Cheilanthes lanosa
Chelidonium majus
Chenopodium album
Chenopodium ambrosioides
Chenopodium simplex
Choenomeles japonica
Chondrilla juncea
Cichorium intybus
Cicuta maculata

Cinna arundinacea
Cirsium arvense
Cirsium discolor
Cirsium muticum
Cirsium pumilum
Claytonia virginica
Clematis viorna
Clinopodium vulgare
Clintonia borealis
Clitoria mariana
Collinsia verna
Commelina virginica
Conium maculatum
Convolvulus arvensis
Cornus racemosa
Crataegus xhaemacarpa
Crataegus calpodendron
Crataegus crus-galli
Crataegus erythrocarpa
Crataegus intricata
Crataegus margarettiae
Crataegus mollis
Crataegus phaenopyrum
Crataegus pruinosa
Crataegus pulcherrima
Crataegus punctata
Crataegus spathulata
Crataegus uniflora
Crataegus viridis
Crepis capillaris
Crepis pulchra
Cruciata pedemontana
Cuphea viscosissima
Cuscuta coryli
Cuscuta gronovii
Cuscuta pentagona
Cynodon dactylon
Cynoglossum officinale
Cyperus bipartitus
Cyperus echinatus
Cyperus esculentus
Cyperus flavescens
Cyperus lancastrimensis
Cyperus lupulinus
Cyperus strigosus
Cypripedium parviflorum
Cystopteris protrusa

Dactylis glomerata
Delphinium tricornis
Desmodium canescens
Desmodium ciliare
Desmodium cuspidatum
Desmodium glabellum
Desmodium laevigatum
Desmodium marilandicum
Desmodium perplexum

Desmodium rotundifolium
Dianthus armeria
Dicentra canadensis
Dicentra cucullaria
Dicentra eximia
Dichanthelium acuminatum
Dichanthelium commutatum
Dichanthelium depauperatum
Dichanthelium latifolium
Dichanthelium linearifolium
Dichanthelium meridionale
Diervilla lonicera
Digitaria sanguinalis
Diphasiastrum tristachyum
Dipsacus fullonum
Dodecatheon meadia
Draba ramosissima
Draba verna
Dryopteris campyloptera
Duchesnea indica
Dulichium arundinaceum

Echinochloa crus-galli
Echinocystis lobata
Echium vulgare

Eclipta prostrata
Eleocharis acicularis
Eleocharis erythropoda
Eleocharis obtusa
Eleocharis tenuis
Eleusine indica
Elodea nuttallii
Elymus canadensis
Elymus villosus
Elytrigia repens
Epilobium angustifolium
Eragrostis capillaris
Eragrostis cilianensis
Eragrostis frankii
Eragrostis hypnoides
Eragrostis pectinacea
Eragrostis spectabilis
Erigenia bulbosa
Erigeron strigosus
Erysimum cheiranthoides
Erythronium umbilicatum
Eupatorium album
Eupatorium altissimum
Eupatorium godfreyanum
Eupatorium perfoliatum
Euphorbia commutata
Euphorbia dentata
Euphorbia marginata
Euphorbia spathulata

Festuca arundinacea
Festuca rubra

Fimbristylis autumnalis
Floerkea proserpinacoides
Fragaria vesca
Fragaria virginiana
Fraxinus pennsylvanica

Galeopsis bifida
Galinsoga quadriradiata
Galium boreale
Galium concinnum
Galium latifolium
Galium mollugo
Galium tinctorium
Gamochaeta purpurea
Gaura biennis
Gaylussacia dumosa
Gentiana andrewsii
Gentiana austromontana
Gentiana clausa
Gentiana decora
Gentiana villosa
Gentianella quinquefolia
Geranium carolinianum
Geranium columbinum
Geum laciniatum
Geum virginianum
Gratiola neglecta

Halesia Carolina
Helenium flexuosum
Helianthus giganteus
Helianthus hirsutus
Helianthus strumosus
Heliantus tuberosus
Helleborus viridis
Hemerocallis fulva
Heracleum maximum
Heteranthera dubia
Hibiscus laevis
Hibiscus moscheutos
Hibiscus syriacus
Hibiscus trionum
Hieracium xfloribundum
Hieracium caespitosum
Hieracium greenii
Hieracium gronovii
Hieracium paniculatum
Hieracium pilosella
Holcus lanatus
Holosteum umbellatum
Hordeum jubatum
Humulus lupulus
Huperzia lucidula
Hydrophyllum canadense
Hypericum canadense
Hypericum denticulatum
Hypericum gentianoides

Hypericum perforatum

Ilex ambigua
Ipomoea hederacea
Ipomoea lacunosa
Ipomoea purpurea
Iris verna

Jeffersonia diphylla
Juncus acuminatus
Juncus canadensis
Juncus diffusissimus
Juncus dudleyi
Juncus marginatus
Juncus secundus
Juncus tenuis

Kickxia elatine
Krigia biflora
Kummerowia striata
Kyllinga pumila

Lactuca canadensis
Lactuca floridana
Lactuca saligna
Lamium amplexicaule
Lamium purpureum
Lapsana communis
Lathyrus venosus
Lechea mucronata
Lechea racemulosa
Lemna minor
Lemna valdiviana
Leonurus cardiace
Lepidium campestre
Lepidium densiflorum
Lespedeza xnuttallii
Lespedeza bicolor
Lespedeza capitata
Lespedeza cuneata
Lespedeza intermedia
Liatris graminifolia
Liatris scariosa
Liatris spicata
Liatris turgida
Ligusticum canescens
Lobelia puberula
Lolium perenne
Lotus corniculatus
Luzula acuminata
Luzula echinata
Lycium barbarum

Lycopodium dendroideum
Lyeopus americanus
Lycopus uniflorus
Lygodium palmatum
Lythrum salicaria

Madura pomifera
Malaxis unifolia
Malva moschata
Malva neglecta
Marrubium vulgare
Matelea obliqua
Matricaria discoidea
Medicago lupulina
Melanthium latifolium
Melanthium parviflorum
Melica mutica
Melilotus officinalis
Mellissa officinalis
Mentha arvensis
Mentha spicata
Mertensia virginica
Mimulus ringens
Mollugo verticillata
Monarda clinopodia
Monotropa hypopithys
Morus alba
Muhlenbergia frondosa
Myosotis laxa
Myosotis scorpioides
Myosotis verna
Myosoton aquaticum
Myriophyllum heterophyllum

Najas flexilis
Najas gracillima
Najas minor
Nepeta cataria
Nuphar lutea

Obolaria virginica
Oenothera laciniata
Oenothera parviflora
Oenothera perennis
Onosmodium molle
Ophioglossum vulgatum
Oxalis dillenii

Panax trifolius
Panicum anceps
Panicum capillare
Panicum gattingeri
Parnassia asarifolia
Parthenium integrifolium
Paspalum laeve
Paspalum setaceum
Passiflora lutea

Pastinaca sativa
Pellaea glabella
Penstemon canescens
Penstemon digitalis
Penstemon laevigatus
Penstemon pallidus
Penthorum sedoides
Phacelia bipinnatifida
Phacelia dubia
Phalaris arundinacea
Phaseolus polystachios
Phleum pratense
Phlox divaricata
Phlox maculata
Phlox stolonifera
Phlox subulata
Phyla lanceolata
Physalis longifolia
Physalis pruinosa
Plantago aristata
Plantago lanceolata
Plantago major
Plantago rugelii
Platanthera flava
Platanthera lacera
Platanthera orbiculata
Poa annua
Poa compressa
Poa cuspidata
Poa palustris
Poa pratensis
Poa saltuensis
Poa trivialis
Podostemum ceratophyllum
Polemonium reptans
Polygala curtissii
Polygala paucifolia
Polygala polygama
Polygala sanguinea
Polygala senega
Polygonum amphibium
Polygonum arifolium
Polygonum aviculare
Polygonum cespitosum
Polygonum convolvulus
Polygonum erectum
Polygonum hydropiper
Polygonum hydropiperoides
Polygonum orientale
Polygonum pensylvanicum
Polygonum punctatum
Populus xjackii
Populus alba
Porteranthus stipulatus
Portulaca oleracea
Potamogeton crispus
Potamogeton diversifolius

Potamogeton epihydrus
Potamogeton foliosus
Potamogeton nodosus
Potentilla norvegica
Potentilla recta
Prunus pensylvanica
Ptelea trifoliata
Pueraria montana
Pycnanthemum incanum
Pycnanthemum loomisii
Pycnanthemum pycnanthemoides
Pycnanthemum verticillatum
Pycnanthemum virginianum
Pyrola americana

Quercus bicolor
Quercus marilandica

Ranunculus abortivus
Ranunculus acris
Ranunculus allegheniensis
Ranunculus bulbosus
Ranunculus micranthus
Ranunculus recurvatus
Rhododendron periclymenoides
Rhynchospora globularis
Rosa palustris
Rubus allegheniensis
Rubus alumnus Rubus
fecundus Rubus flagellaris
Rubus laudatus
Rubus pensilvanicus
Rubus steelei
Rudbeckia fulgida
Rudbeckia hirta
Rudbeckia triloba
Ruellia caroliniensis

Sabatia angularis
Sagittaria australis
Sagittaria graminea
Salix alba
Salix eriocephala
Salix exigua
Salix humilis
Salix sericea
Sanicula marilandica
Sanicula trifoliata
Saururus cernuus
Saxifraga careyana
Saxifraga micranthidifolia
Saxifraga virginensis
Scirpus americanus
Scirpus atrovirens
Scirpus cyperinus
Scirpus expansus

Scirpus georgianus
Scirpus polyphyllus
Scirpus tabernaemontani
Scutellaria elliptica
Scutellaria incana
Scutellaria integrifolia
Scutellaria lateriflora
Sedum glaucophyllum
Selaginella apoda
Setaria faberi
Setaria parviflora
Setaria viridis
Sida spinosa
Silene antirrhina
Silene latifolia
Silene stellata
Silene virginica
Silphium compositum
Silphium perfoliatum
Silphium trifoliatum
Sinapis arvensis
Sisymbrium officinale
Sisyrinchium montanum
Sium suave
Smilax pulverulenta
Solanum americanum
Solanum dulcamara
Solidago arguta
Solidago gracillima
Solidago hispida
Solidago juncea
Solidago petiolaris
Solidago puberula
Solidago roanensis
Solidago uliginosa
Sonchus asper
Sorghum halepense
Sparganium americanum
Spergula arvense
Sphenopholis intermedia
Sphenopholis nitida
Spiraea tomentosa
Spiranthes lacera
Spiranthes lucida
Spiranthes ochroleuca
Spirodela polyrrhiza
Sporobolus clandestinus
Sporobolus vaginiflorus
Stachys tenuifolia
Stellaria longifolia
Stenanthium gramineum
Stylosanthes biflora
Symphoricarpos orbiculatus
Symplocarpus foetidus

Taenidia montana
Taraxacum laevigatum

Taraxacum officinale
Taxus canadensis
Thalictrum coriaceum
Thalictrum revolutum
Thaspium barbinode
Thaspium trifoliatum
Thelypteris palustris
Thlaspi arvense
Thlaspi perfoliatum
Tipularia discolor
Torilis japonica
Tradescantia virginiana
Tragopogon dubius
Tragopogon pratensis
Trichostema brachiatum
Trichostema dichotomum
Trifolium aureum
Trifolium campestre
Trifolium hybridum
Trifolium incarnatum
Trifolium pratense
Trifolium repens
Trillium grandiflorum
Trillium sulcatum
Triodanis perfoliata
Triosteum aurantiacum
Triosteum perfoliatum
Triphora trianthophora
Tripsacum dactyloides
Typha angustifolia
Typha latifolia

Uvularia grandiflora
Uvularia puberula

Vaccinium erythrocarpum
Valerianella locusta
Vallisneria americana
Verbascum blattaria
Verbena hastata
Vernonia noveboracensis
Veronica americana
Veronica anagallis-aquatica
Veronica arvensis
Veronica officinalis
Veronica peregrina
Veronica persica
Veronica serpyllifolia
Veronicastrum virginicum
Viburnum lantanoides
Vicia sativa
Vicia villosa
Vinca minor
Viola affinis
Viola bicolor
Viola hirsutula
Viola macloskeyi

Viola palmate
Viola pubescens
Viola striata
Vitis labrusca
Vitis vulpine
Vulpia octoflora

Waldsteinia fragarioides
Wolffia brasiliensis

Yucca filamentosa

GAULEY NATIONAL RECREATION AREA

Abutilon theophrasti
Acer negundo
Acer nigrum
Acer saccharinum
Agalinis tenuifolia
Agrimonia gryposepala
Agrimonia microcarpa
Agrimonia pubescens
Agrostemma githago
Agrostis hyemalis
Agrostis perennans
Albizia julibrissin
Aletris farinosa
Alisma subcordatum
Alliaria petiolata
Allium canadense
Allium tricoccum
Allium vineale
Alnus glutinosa
Amaranthus hybridus
Amaranthus spinosus
Anagallis arvensis
Andropogon gyrans
Anemone canadensis
Anemone minima
Anemone virginiana
Antennaria howellii
Antennaria neglecta
Antennaria parlinii
Antennaria virginica
Anthemis cotula
Aplectrum hyemale
Apocynum xfloribundum
Apocynum androsaemifolium
Arabidopsis thaliana
Arabis canadensis
Arabis glabra
Arabis lyrata
Arctium minus
Arenaria serpyllifolia
Arisaema dracontium

Aristida dichotoma
Aristolochia serpentaria
Aronia arbutifolia
Aronia melanocarpa
Artemisia annua
Artemisia vulgaris
Arthraxon hispidus
Asclepias exaltata
Asclepias purpurascens
Asclepias quadrifolia
Asclepias variegata
Asclepias verticillata
Asparagus officinalis
Asplenium xtrudellii
Asplenium resiliens
Asplenium ruta-muraria
Aster fragilis
Aster infirmus
Aster novae-angliae
Aster oblongifolius
Astragalus canadensis
Aureolaria flava
Aureolaria pedicularia
Aureolaria virginica
Avena sativa

Barbarea verna
Barbarea vulgaris
Berberis canadensis
Berberis thunbergii
Berberis vulgaris
Bidens aristosa
Bidens bipinnata
Bidens cernua
Bidens frondosa
Bidens tripartita
Blephilia ciliata
Blephilia hirsuta
Brasenia schreberi
Brassica napus
Brassica nigra
Bromus ciliatus
Bromus commutatus
Bromus inermis
Bromus japonicus
Bromus secalinus
Bromus tectorum
Buglossoides arvensis

Callitriche heterophylla
Calystegia sepium
Cannabis sativa
Capsella bursa-pastoris
Cardamine douglassii
Cardamine hirsuta
Cardamine rotundifolia
Carduus nutans
Carex albicans

Carex albursina
Carex amphibola
Carex annectens
Carex argyrantha
Carex baileyi
Carex brevior
Carex cephalophora
Carex debilis
Carex emoryi
Carex festucacea
Carex folliculata
Carex frankii
Carex gracilescens
Carex granularis
Carex gynandra
Carex hirsutella
Carex interior
Carex intumescens
Carex laevivaginata
Carex laxiculmis
Carex leptalea
Carex muehlenbergii
Carex platyphylla
Carex projecta
Carex scabrata
Carex shortiana
Carex sparganioides
Carex squarrosa
Carex stipata
Carex striatula
Carex stricta
Carex tenera
Carex tribuloides
Carex umbellata
Carex virescens
Carex vulpinoidea
Carya ovalis
Catalpa speciosa
Celtis laevigata
Celtis tenuifolia
Centaurea biebersteinii
Centaurea nigra
Cerastium glomeratum
Cerastium nutans
Chaerophyllum procumbens
Chamaecrista fasciculata
Chamaelirium luteum
Cheilanthes lanosa
Chelidonium majus
Chenopodium album
Chenopodium ambrosioides
Chenopodium simplex
Choenomeles japonica
Chondrilla juncea
Cichorium intybus
Cicuta maculata
Cinna arundinacea

Cirsium arvense
Cirsium discolor
Cirsium muticum
Cirsium pumilum
Claytonia virginica
Clematis viorna
Clinopodium vulgare
Clitoria mariana
Commelina virginica
Conium maculatum
Convolvulus arvensis
Cornus racemosa
Crepis capillaris
Crepis pulchra
Cruciata pedemontana
Cuphea viscosissima
Cuscuta coryli
Cuscuta gronovii
Cuscuta pentagona
Cymophyllus fraserianus
Cynodon dactylon
Cynoglossum officinale
Cyperus bipartitus
Cyperus echinatus
Cyperus esculentus
Cyperus flavescens
Cyperus lancastrimensis
Cyperus lupulinus
Cyperus strigosus
Cypripedium parviflorum
Cypripedium pubescens
Cystopteris protrusa

Dactylis glomerata
Desmodium canescens
Desmodium ciliare
Desmodium cuspidatum
Desmodium glabellum
Desmodium laevigatum
Desmodium marilandicum
Desmodium perplexum
Desmodium rotundifolium
Dianthus armeria
Dicentra canadensis
Dicentra cucullaria
Dichanthelium commutatum
Dichanthelium depauperatum
Dichanthelium latifolium
Dichanthelium
linearifolium
Dichanthelium meridionale
Digitaria ischaemum
Digitaria sanguinalis
Dioscorea oppositifolia
Dioscorea quaternata
Diphasiastrum tristachyum
Dipsacus fullonum
Draba ramosissima

Draba verna
Duchesnea indica
Dulichium arundinaceum

Echinochloa crus-galli
Echinocystis lobata
Echium vulgare
Eclipta prostrata
Eleocharis acicularis
Eleocharis erythropoda
Eleocharis obtusa
Eleocharis smallii
Eleocharis tenuis
Elephantopus carolinianus
Eleusine indica
Elodea nuttallii
Elymus canadensis
Elymus villosus
Elytrigia repens
Epilobium angustifolium
Eragrostis capillaris
Eragrostis cilianensis
Eragrostis frankii
Eragrostis hypnoides
Eragrostis pectinacea
Eragrostis spectabilis
Erigenia bulbosa
Erigeron strigosus
Erysimum cheiranthoides
Euonymus atropurpurea
Eupatorium incarnatum
Eupatorium perfoliatum
Euphorbia commutata
Euphorbia dentata
Euphorbia spathulata

Festuca rubra
Festuca subverticillata
Filago vulgaris
Fimbristylis autumnalis
Fragaria vesca
Fragaria virginiana

Galinsoga quadriradiata
Galium concinnum
Galium lanceolatum
Galium latifolium
Galium mollugo
Galium tinctorium
Gamochaeta purpurea
Gaura biennis
Gentiana andrewsii
Gentiana clausa
Gentiana villosa
Geranium carolinianum
Geranium columbinum
Geum laciniatum

Geum virginianum
Gratiola neglecta

Hackelia virginiana
Helenium flexuosum
Helianthus xlaetiflorus
Hemerocallis fulva
Heteranthera dubia
Hibiscus moscheutos
Hibiscus syriacus
Hibiscus trionum
Hieracium xfloribundum
Hieracium caespitosum
Hieracium gronovii
Hieracium paniculatum
Hieracium pilosella
Holcus lanatus
Holosteum umbellatum
Humulus japonicus
Hyperzia lucidula
Hydrophyllum canadense
Hypericum gentianoides
Hypochaeris radicata

Ilex ambigua
Ipomoea hederacea
Ipomoea lacunose
Ipomoea purpurea
Isotria verticillata

Jeffersonia diphylla
Juncus acuminatus
Juncus canadensis
Juncus diffusissimus
Juncus dudleyi
Juncus marginatus
Juncus secundus
Juncus tenuis

Krigia biflora
Krigia virginica
Kummerowia striata
Kyllinga pumila

Lactuca canadensis
Lactuca floridana
Lactuca saligna
Lamium amplexicaule
Lamium purpureum
Lathyrus latifolius
Lechea racemulosa
Lemna minor
Leonurus cardiaca
Lepidium campestre
Lepidium densiflorum
Lepidium virginicum

Lespedeza capitata
Lilium canadense
Linaria vulgaris
Lindernia dubia
Lobelia puberula
Lolium perenne
Lotus corniculatus
Luzula acuminata
Luzula echinata
Lycium barbarum
Lycopodium dendroideum
Lycopus americanus
Lycopus uniflorus
Lythrum salicaria

Maclura pomifera
Malus augustifolia
Malus coronaria
Malva moschata
Malva neglecta
Marrubium vulgare
Matelea oblique
Medicago lupulina
Melilotus officinalis
Menispermum canadense
Mentha arvensis
Mentha spicata
Mertensia virginica
Mimulus alatus
Mimulus ringens
Mollugo verticillata
Monarda clinopodia
Monotropa hypopithys
Muhlenbergia frondosa
Myosotis laxa
Myosotis scorpioides
Myosotis verna
Myriophyllum
heterophyllum

Najas flexilis
Najas minor
Nepeta cataria
Nuphar lutea

Obolaria virginica
Oenothera laciniata
Oenothera parviflora
Ophioglossum vulgatum
Osmunda cinnamomea
Oxalis dillenii

Panax trifolius
Panicum anceps
Panicum capillare
Panicum dichotomiflorum
Paronychia fastigiata
Parthenium integrifolium

Paspalum laeve
Paspalum setaceum
Passiflora lutea
Pastinaca sativa
Penstemon canescens
Penstemon digitalis
Penstemon laevigatus
Phacelia dubia
Phalaris arundinacea
Phalaris canariensis
Phaseolus polystachios
Phleum pratense
Phlox divaricata
Phlox stolonifera
Phyla lanceolata
Physalis heterophylla
Physalis longifolia
Plantago aristata
Plantago lanceolata
Plantago major
Plantago rugelii
Platanthera grandiflora
Pleopeltis polypodioides
Poa alsodes
Poa annua
Poa compressa
Poa cuspidata
Poa palustris
Poa pratensis
Poa trivialis
Podostemum ceratophyllum
Polemonium reptans
Polygala paucifolia
Polygala polygama
Polygala sanguinea
Polygonum aviculare
Polygonum convolvulus
Polygonum erectum
Polygonum hydropiper
Polygonum hydropiperoides
Polygonum pensylvanicum
Polygonum punctatum
Portulaca oleracea
Potamogeton diversifolius
Potamogeton epihydrus
Potamogeton foliosus
Potamogeton nodosus
Potentilla argentea
Potentilla norvegica
Potentilla recta
Prenanthes trifoliolata
Proserpinaca palustris
Prunus pensylvanica
Pueraria montana
Pyrola americana

Quercus bicolor

Ranunculus abortivus
Ranunculus acris
Ranunculus allegheniensis
Ranunculus ambigens
Ranunculus bulbosus
Ranunculus recurvatus
Rhododendron periclymenoides
Rorippa sylvestris
Rubus aboriginum
Rubus allegheniensis
Rubus alumnus
Rubus baileyanus
Rubus canadensis
Rubus celer
Rubus concameratus
Rubus densissimus
Rubus depavitus
Rubus exsularis
Rubus fecundus
Rubus flagellaris
Rubus invisus
Rubus laudatus
Rubus leggii
Rubus michiganensis
Rubus multiflorus
Rubus paganus
Rubus pensilvanicus
Rubus permixtus
Rubus plicatifolius
Rubus prestonensis
Rubus profusiflorus
Rubus roribaccus
Rubus rosa
Rubus steelei
Rubus suus
Rubus varus

Sabatia angularis
Sagittaria australis
Salix humilis
Salix sericea
Sanicula canadensis
Sanicula marilandica
Sanicula trifoliata
Saururus cernuus
Saxifraga micranthidifolia
Saxifraga virginiana
Scirpus americanus
Scirpus atrovirens
Scirpus cyperinus
Scirpus lineatus
Scutellaria elliptica
Scutellaria incana
Scutellaria integrifolia
Scutellaria lateriflora
Scutellaria ovata

Senecio anonymus
Senna marilandica
Setaria faberi
Sida spinosa
Silene antirrhina
Silene latifolia

Silene stellata
Silene virginica
Silphium trifoliatum
Sinapis arvensis
Sisymbrium officinale
Solanum americanum
Solanum dulcamara
Solidago arguta
Solidago hispida
Solidago juncea
Solidago puberula
Solidago roanensis
Sonchus arvensis
Sonchus asper
Sonchus oleraceus
Sparganium americanum
Spergula arvense
Sphenopholis nitida
Spiraea tomentosa
Spiranthes lacera
Sporobolus vaginiflorus
Stellaria longifolia
Stenathium gramineum
Stylosanthes biflora
Symphoricarpos orbiculatus
Symplocarpus foetidus

Taraxacum laevigatum
Taraxacum officinale
Thalictrum coriaceum
Thalictrum revolutum
Thalictrum thalictroides
Thaspium barbinode
Thaspium trifoliatum
Thelypteris palustris
Thlaspi arvense
Thlaspi perfoliatum
Tipularia discolor
Torilis japonica
Tradescantia virginiana
Tragopogon dubius
Tragopogon pratensis
Trichostema brachiatum
Trichosterna dichotomum
Trifolium aureum
Trifolium campestre
Trifolium hybridum
Trifolium pratense
Trifolium repens
Trillium grandiflorum

Triodanis perfoliata
Triosteum aurantiacum
Triphora trianthophora
Tripsacum dactyloides
Typha angustifolia
Typha latifolia

Uvularia grandiflora

Valerianella locusta
Verbascum blattaria
Verbena hastata
Vernonia noveboracensis
Veronica americana
Veronica anagallis-aquatica
Veronica arvensis
Veronica officinalis
Veronica peregrina
Veronica persica
Veronica serpyllifolia
Veronicastrum virginicum
Viburnum lantanoides
Vicia sativa
Vicia villosa
Vinca minor
Viola affinis
Viola bicolor
Viola hirsutula
Viola palmata
Viola pubescens
Viola sagittata
Viola striata
Vitis vulpina
Vulpia octoflora

Waldsteinia fragarioides

Yucca filamentosa

NEW RIVER GORGE NATIONAL RIVER

Acer nigrum
Aconitum uncinatum
Agalinis tenuifolia
Agastache scrophulariifolia
Agrimonia gryposepala
Agrimonia microcarpa
Agrimonia rostellata
Agrostemma githago
Agrostis capillaris
Ajuga reptans
Aletris farinosa
Amaranthus albus
Amaranthus powellii
Amaranthus spinosus
Ampelopsis cordata

Anagallis arvensis
Andropogon gyrans
Anemone canadensis
Angelica venenosa
Antennaria howellii
Antennaria parlinii
Antennaria virginica
Anthemis arvensis
Apocynum xfloribundum
Aristida dichotoma
Aristida longespica
Armoracia rusticana
Aronia xprunifolia
Arrhenatherum elatius
Asclepias variegata
Asclepias verticillata
Asparagus officinalis
Asplenium ebenoides
Asplenium pinnatifidum
Asplenium resiliens
Aster cordifolius
Aster paternus
Aster praealtus
Aster shortii
Aster umbellatus
Aster undulatus
Astragalus canadensis
Aureolaria flava
Aureolaria pedicularia
Aureolaria virginica
Avena sativa

Baptisia tinctoria
Bartonia virginica
Bellis perennis
Berberis thunbergii
Berberis vulgaris
Bidens vulgata
Bignonia capreolata
Blephilia ciliata
Botrychium oneidense
Brassica napus
Bromus ciliatus
Bromus commutatus
Bromus secalinus
Broussonetia papyrifera
Buglossoides arvensis

Calamagrostis coarctata
Callitriche terrestris
Calycanthus floridus
Camelina microcarpa
Camelina sativa
Campanula aparinoides
Cannabis sativa
Capsella bursa-pastoris
Cardamine douglassii

Carduus acanthoides
Carduus nutans
Carex abscondita
Carex aggregata
Carex argyrantha
Carex brevier
Carex caroliniana
Carex echinata
Carex flaccosperma
Carex gracilescens
Carex laevivaginata
Carex leptalea
Carex muehlenbergii
Carex normalis
Carex pedunculata
Carex projecta
Carex shortiana
Carex squarrosa
Carex tenera
Carex trisperma
Carex vesicaria
Castanea pumila
Castilleja coccinea
Ceanothus americanus
Celtis laevigata
Centaurea jacea
Centaurea nigra
Cerastium nutans
Chamaelirium luteum
Choenomeles japonica
Chrysopsis mariana
Chrysosplenium americanum
Cirsium altissimum
Cirsium arvense
Cirsium discolor
Cirsium pumilum
Clitoria mariana
Collinsia verna
Convallaria majalis
Corallorrhiza maculata
Coreopsis grandiflora
Coreopsis tinctoria
Coronopus didymus
Crataegus xhaemacarpa
Crataegus calpodendron
Crataegus erythrocarpa
Crataegus macrosperma
Crataegus mollis
Crataegus phaenopyrum
Crataegus pruinosa
Crataegus pulcherrima
Crataegus uniflora
Crepis pulchra
Cruciata pedemontana
Cunila origanoides
Cuscuta coryli
Cynanchum laeve

Cynodon dactylon
Cynoglossum officinale
Cynosurus echinatus
Cypripedium parviflorum

Danthonia sericea
Deschampsia flexuosa
Desmodium ciliare
Desmodium cuspidatum
Desmodium laevigatum
Desmodium marilandicum
Diarrhena americana
Dicentra eximia
Dichanthelium depauperatum
Diervilla lonicera
Diphasiastrum tristachyum
Dodecatheon meadia
Draba ramosissima
Dyssodia papposa

Echinocystis lobata
Eleocharis palustris
Elodea nuttallii
Elytrigia repens
Eragrostis hirsuta
Eragrostis minor
Erigenia bulbosa
Eriophorum virginicum
Erodium cicutarium
Erysimum cheiranthoides
Erythronium umbilicatum
Euonymus alata
Euonymus atropurpurea
Eupatorium album
Eupatorium altissimum
Eupatorium capillifolium
Eupatorium incarnatum
Eupatorium rotundifolium
Euphorbia cyparissias
Euphorbia marginata
Euphorbia pubentissima
Euphorbia spathulata

Filago vulgaris
Filipendula rubra
Fragaria vesca

Galeopsis bifida
Galium asprellum
Galium concinnum
Galium mo Hugo
Galium parisiense
Gaylussacia dumosa
Gentiana andrewsii
Gentiana clausa
Gentiana decora
Geranium columbinum

Glyceria canadensis
Glyceria septentrionalis
Gratiola virginiana

Helenium flexuosum
Helianthus grosseserratus
Helleborus viridis
Heracleum maximum
Heuchera parviflora
Hibiscus syriacus
Hibiscus trionum
Hieracium xfloribundum
Hieracium xmarianum
Hieracium greenii
Hieracium gronovii
Hieracium paniculatum
Hordeum jubatum
Houstonia purpurea
Humulus japonicus
Humulus lupulus
Hypericum canadense
Hypericum ellipticum

Ilex ambigua
Inula helenium
Ipomoea hederacea
Iris verna
Iris virginica

Juncus articulatus
Juncus brevicaudatus
Juncus dudleyi
Juncus nodosus
Juncus secundus
Juncus torreyi

Kickxia elatine
Knautia arvensis
Krigia biflora
Kummerowia striata

Lactuca canadensis
Lamium maculatum
Lathyrus sylvestris
Lathyrus venosus
Lechea mucronata
Lechea racemulosa
Lemna valdiviana
Leonurus cardiaca
Lepidium campestre
Lepidium densiflorum
Lespedeza capitata
Lespedeza intermedia
Lespedeza violacea
Liatris aspera
Liatris scariosa
Liatris secunda

Liatris turgida
Ligusticum canadense
Lilium canadense
Lilium philadelphicum
Linaria vulgaris
Linum usitatissimum
Lithospermum latifolium
Lonicera canadensis
Lonicera dioica
Luzula echinata
Lycium barbarum
Lycopodium annotinum
Lycopodium dendroideum
Lygodium palmatum
Lysimachia lanceolata

Malaxis unifolia
Malus coronaria
Malva moschata
Malva neglecta
Marrubium vulgare
Matelea obliqua
Matricaria discoidea
Medicago sativa
Melampyrum lineare
Melanthium latifolium
Melissa officinalis
Monotropa hypopithys
Monotropsis odorata
Muhlenbergia sobolifera
Muscari botryoides
Myosotis macrosperma
Myosotis scorpioides
Myosoton aquaticum

Najas flexilis
Narcissus pseudonarcissus
Nepeta cataria
Nuphar lutea

Obolaria virginica
Oenothera laciniata
Ophioglossum vulgatum
Orobanche ludoviciana
Oxalis dillenii

Parnassia asarifolia
Paronychia fastigiata
Parthenium integrifolium
Pastinaca sativa
Penstemon laevigatus
Penstemon pallidus
Phaseolus polystachios
Phlox latifolia
Phlox maculata
Phlox stolonifera
Phoradendron leucarpum

Phragmites australis
Physalis pruinosa
Pinus pungens
Pinus sylvestris
Platanthera flava
Platanthera grandiflora
Platanthera peramoena
Pleopeltis polypodioides
Poa annua
Poa cuspidata
Poa palustris
Poa trivialis
Polygala polygama
Polygala senega
Polygonum convolvulus
Polygonum erectum
Polygonum tenue
Populus xjackii
Populus alba
Potamogeton amplifolius
Potentilla argentea
Pyrus communis

Quercus falcata

Ranunculus bulbosus
Rhexia mariana
Ribes americanum
Ribes rotundifolium
Robinia viscosa
Rosa rugosa
Rubus alumnus
Rubus baileyanus
Rubus canadensis
Rubus densissimus
Rubus fecundus
Rubus invisus
Rubus laciniatus
Rubus laudatus
Rubus michiganensis
Rubus permixtus
Rubus prestonensis
Rubus steelei
Ruellia strepens
Rumex verticillatus

Sagittaria australis
Sagittaria graminea
Salix alba
Salix humilis
Scirpus georgianus
Scleranthus annuus
Scleria triglomerata
Scutellaria integrifolia
Sedum glaucophyllum
Senecio vulgaris
Setaria italica

Setaria parviflora
Setaria viridis
Sherardia arvensis
Silene dichotoma
Silene noctiflora
Sinapis alba
Sinapis arvensis
Sisymbrium altissimum
Sisymbrium officinale
Solanum rostratum
Solidago arguta
Solidago hispida
Solidago juncea
Solidago odora
Solidago patula
Solidago petiolaris
Solidago sphacelata
Solidago uliginosa
Sonchus arvensis
Sonchus oleraceus
Sparganium androcladum
Spartina pectinata
Spergula arvense
Sphenopholis intermedia
Sphenopholis nitida
Sphenopholis obtusata
Sphenopholis pensylvanica
Spiraea alba
Spiraea tomentosa
Spiranthes lucida
Spiranthes ochroleuca
Spirodela polyrrhiza
Sporobolus vaginiflorus
Stellaria longifolia
Stenathium gramineum
Stylophorum diphyllum
Symphoricarpos albus
Synosma suaveolens

Taenidia integerrima
Taraxacum laevigatum
Taxus canadensis
Thlaspi perfoliatum
Thuja occidentalis
Tragopogon dubius
Triadenum virginicum
Trientalis borealis
Trifolium incarnatum
Trillium sulcatum
Triosteum perfoliatum
Typha angustifolia

Utricularia gibba
Uvularia grandiflora

Vaccinium erythrocarpum
Veronica americana

Veronica persica
Viburnum lantanoides
Viburnum raf inescquianum
Vicia caroliniana
Vicia villosa
Vinca minor
Viola appalachiensis
Viola arvensis
Viola hirsutula
Viola macloskeyi
Viola pedata
Viola pubescens
Vitis labrusca
Vulpia octoflora

Waldsteinia fragarioides
Wisteria frutescens
Wolffia brasiliensis