

A
Vascular Flora
of the
Ivy Creek Natural Area

Fourth Edition

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A project of the Rivanna Master Naturalists
with the guidance of Tom Dierauf and Tim Williams

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First edition – 1980
Thomas Wieboldt

Second edition – 1989
Additions by Charles Stevens

Third edition – 1995
Additions by Timothy Williams

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Additions by Kenneth Lawless

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Additions by Thomas Dierauf and Timothy Williams

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Steve Botts
Becky Minor
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Ferns and their Allies

	Lycopodiaceae	Running cedar Shining club moss Ground pine	Dennstaedtiaceae	Dennstaedtia punctilobula Pteridium aquilinum	Hay-scented fern Bracken fern
Lycopodium digitatum lucidulum obscurum					
	Selaginellaceae	Meadow spikemoss	Onocleaceae	Onoclea sensibilis	Sensitive fern
Selaginella apoda					
	Adiantaceae	Maidenhair fern	Ophioglossaceae	Botrychium dissectum obliquum virginianum Ophioglossum vulgatum	Grape fern Grape fern Rattlesnake fern Adder's-tongue fern
Adiantum pedatum					
	Aspleniaceae	Ebony spleenwort Walking fern Maidenhair spleenwort Southern lady fern Crested woodfern Intermediate woodfern Marginal wood fern Spinulose wood fern Broad beech fern Christmas fern New York fern Marsh fern Blunt-lobed woodsia	Osmundaceae	Osmunda cinnamomea claytoniana regalis	Cinnamon fern Interrupted fern Royal fern
Asplenium platyneuron rhizophyllum trichomanes Athyrium asplenioides Dryopteris cristata intermedia marginalis spinulosa Phegopteris hexagonoptera Polystichum acrostichoides Thelypteris noveboracensis palustris Woodsia obtusa					
			Polypodiaceae	Polypodium virginianum	Common polypody

Gymnosperms

	Cupressaceae	Eastern red cedar
Juniperus virginiana		
	Pinaceae	Shortleaf pine Pitch pine White pine Loblolly pine Virginia pine Hemlock
Pinus echinata rigida strobus taeda virginiana Tsuga canadensis		

Monocots

	Alismataceae			Dioscoreaceae	
Alisma subcordatum		Water plantain	Dioscorea villosa		Wild yam
Sagittaria latifolia		Arrowhead			
	Amaryllidaceae			Hydrocharitaceae	
Hypoxis hirsuta		Yellow star-grass	Elodea canadensis		Water weed
	Araceae			Iridaceae	
Acorus calmus*		Sweetflag	Belamcanda chinensis		Blackberry lily
Arisaema triphyllum		Jack-in-the-pulpit	Iris pseudacorus		Yellow flag
Peltandra virginica		Arrow arum	Sisyrinchium angustifolium		Blue-eyed grass
Symplocarpus foetidus		Skunk cabbage		Juncaceae	
	Commelinaceae		Juncus effusus		Common rush
Commelina communis		Asiatic dayflower	secundus		
Murdannia keisak		Wartremoving herb	subcaudatus*		Rush
	Cyperaceae		tenuis		Path rush
Carex albicans			Luzula echinata		Wood rush
amphibola				Lemnaceae	
argyrantha			Spirodela polyrhiza		Greater duckweed
blanda			Wolffia papulifera		Water-meal
caroliniana				Lilaceae	
cephalophora			Allium vineale		Field garlic
complanata*			Asparagus officinalis		Asparagus
crinita			Chamaelirium luteum*		Devil's bit, Blazing star
debilis			Hemerocallis fulva		Daylily
digitalis			Liriope graminifolia		Liriope, Monkey grass
festucacea			Medeola virginiana		Indian cucumber
frankii			Muscari neglectum		Grape hyacinth
grisea			Polygonatum biflorum		true Solomon's seal
intumescens			Smilacina racemosa		false Solomon's seal
laevivaginata			Smilax glauca		Catbrier
laxiculmis			rotundifolia		Catbrier
laxiflora			Uvularia perfoliata		Bellflower
leptalea				Orchidaceae	
lurida			Aplectrum hyemale		Adam-and-Eve orchid
nigromarginata			Corallorhiza odontorhiza		Autumn coralroot
normalis			Goodyera pubescens		Rattlesnake plantain
pennsylvanica			Habenaria clavellata		Club-spurred rein orchid
platyphylla			Isotria verticillata		Whorled pogonia
prasina			Liparis lilifolia		Lily leaf twayblade
rosea			Orchis spectabilis		Showy orchis
scabrata*			Spiranthes cernua* note 1		Nodding ladies' tresses
stipata*			gracilis		Slender ladies' tresses
striatula			ovalis		Lesser ladies' tresses
swanii			Tipularia discolor		Cranefly orchid
tribuloides				Poaceae	
umbellata			Agrostis gigantea		Redtop
virescens*			perennans		Autumn bent
vulpinoidea		Foxtail sedge	Andropogon gerardii		Big bluestem
Cyperus echinatus*			scoparius		Little bluestem
erythrorhizos			ternarius		Split stem bluestem
flavescens			virginicus		Broom sedge
lancastrimensis		Umbrella sedge	Anthoxanthum odoratum		Sweet vernal grass
lupulinus			Arthraxon hispidus		Carpet grass
strigosus			Brachyelytrum erectum		Long awned wool grass
tenuifolius			Bromus inermis		Smooth brome grass
Eleocharis obtusa		Common spike rush	japonicus		Japanese brome grass
Fimbristylis autumnalis			pubescens		Brome grass
Scirpus atrovirens			racemosus		Hairy chess
cyperinus		Wool grass			
polyphyllus		Many-leaved bullrush			
Scleria triglomerata		Nut rush			

* plant not seen in 2010

Bromus sterilis	Barren brome grass	Microstegium vimineum	Japanese stilt grass
Cinna arundinacea	Wood reed	Muhlenbergia schreberi	Nimble Will
Cynodon dactylon	Bermuda grass, Wiregrass	Panicum anceps	Beaked panic grass
Dactylis glomerata	Orchard grass	capillare	Witch grass
Danthonia spicata	Poverty oatgrass	dichotomiflorum	Spreading witch grass
Dichanthelium acuminatum var fasciculatum		rigidulum	Red topped panic grass
boscii	Bosc's panic grass	virgatum	Switchgrass
clandestinum	Deer tongue grass	Paspalum laeve	Smooth paspalum
commutatum	Variable panic grass	Phalaris arundinacea	Reed canary grass
depauperatum*	Starved panic grass	Phleum pratense	Timothy
dichotomum	Bushy panic grass	Poa annua	Annual bluegrass
lanuginosum	Hairy panic grass	compressa	Canada bluegrass
polyanthes	Many flowered panic grass	cuspidata	Short-leaved bluegrass
scoparium	Velvet panic grass	pratensis	Kentucky bluegrass
sphaerocarpon	Round fruited panic grass	trivialis	Rough bluegrass
Digitaria ischaemum	Smooth crabgrass	Setaria faberi	Faber's foxtail
sanguinalis	Crab grass	geniculata	Foxtail grass
Echinochloa crusgalli	Barnyard grass	glauca	Foxtail grass
Eleusine indica	Goose grass	Sorghastrum nutans	Indian grass
Elymus riparius	Rye grass	Sorghum halepense	Johnson grass
villosus	Rye grass	Sphenopholis nitida	Wedge grass
Eragrostis capillaris	Lovegrass	Stipa avenacea	Black needle grass
hypnoides	Creeping lovegrass	Tridens flavus	Grease grass, Purple top grass
pilosa	Lovegrass	Uniola laxa	
spectabilis	Purple lovegrass		
Erianthus alopecuroides	Plumegrass		Pontederiaceae
Festuca elatior	Meadow fescue, Tall fescue	Heteranthera reniformis	Mud plantain
obtusa	Nodding fescue	Pontederia cordata	Pickernelweed
octoflora	Six-weeks fescue		
Glyceria striata	Fowl mannagrass		Sparganiaceae
Holcus lanatus	Velvet grass	Sparganium americanum	American bur reed
Leersia oryzoides	Rice cutgrass		
virginica	White grass		Typhaceae
Lolium perenne	Perennial rye grass	Typha latifolia	Cattail

* plant not seen in 2010

Dicots

	Acanthaceae		Ambrosia artemisiifolia trifida	Common ragweed Giant ragweed
Justicia americana		Water willow	Antennaria plantaginifolia	Pussytoes
Ruellia carolinensis		Wild petunia	Arctium minus*	Burdock
	Aceraceae		Aster cordifolius*	Blue wood aster
Acer negundo		Box elder	divaricatus	White wood aster
rubrum		Red maple	dumosus	Bushy white aster
	Aizoaceae		lateriflorus	Starved aster
Mollago verticillata		Carpet weed	pilosus	White heath aster
	Amaranthaceae		puniceus*	Purple-stemmed aster
Amaranthus spinosus		Spiny amaranthus	undulatus	Wavy-leaved aster
	Anacardiaceae		vimineus*	Small wood aster
Rhus copallina		Winged sumac	Bidens bipinnata	Spanish needles
glabra		Smooth sumac	cernua	Nodding beggar-ticks
radicans		Poison Ivy	frondosa	Beggar-ticks
	Annonaceae		tripartita	Beggar-ticks
Asimina triloba		Pawpaw	Carduus acanthoides	Musk thistle, Plumeless thistle
	Apiaceae		Centaurea maculosa	Spotted knappweed
Angelica venenosa		Hairy angelica	Chondrilla juncea	Skeletonweed
Cicuta maculata		Water hemlock	Chrysanthemum leucanthemum	Ox-eye daisy
Cryptotaenia canadensis		Honewort	Chrysogonum virginianum	Green and gold, Golden star
Daucus carota		Queen Anne's lace	Cichorium intybus*	Chicory
Osmorhiza claytoni*		Hairy sweet cicely	Cirsium discolor	Field thistle
Oxypolis rigidior		Cowbane	pumilum	Pasture thistle
Sanicula canadensis		Black snakeroot	vulgare*	Bull thistle
marilandica*		Snakeroot	Coreopsis verticillata	Thread leaf coreopsis
Thaspium barbinode		Hairy jointed meadow parsnip	Eclipta alba	Yerba de Tado
	Apocynaceae		Elephantopus carolinianus	Elephant's foot
Apocynum androsaemifolium		Spreading dogbane	Erechtites hieracifolia	Fireweed
cannabinum		Indian hemp	Erigeron annuus	Daisy fleabane
	Aquifoliaceae		canadensis	Horseweed
Ilex opaca		American holly	philadelphicus	Daisy fleabane
verticillata		Winterberry	pulchellus	Robin's plantain
	Araliaceae		strigosus	Daisy fleabane
Aralia nudicaulis		Wild sarsaparilla	Eupatoriadelphus fistulosus	Common Joe-Pye-weed
racemosa*		American spikenard	Eupatorium album	White thoroughwort
Hedera helix		English ivy	altissimum*	Tall thoroughwort
	Aristolochiaceae		coelestinum	Mist flower
Aristolochia serpentaria		Virginia snakeroot	godfreyanum	Thoroughwort
Asarum canadense		Canada wild ginger	hyssopifolium	Hyssop-leaved boneset
Hexastylis virginica		Evergreen wild ginger	perfoliatum	Boneset
	Asclepiadaceae		pilosum*	Hairy thoroughwort
Asclepias amplexicaulis		Clasping milkweed	rugosum	White snakeroot
incarnata		Swamp milkweed	serotinum	Late-flowering boneset
syriaca		Common milkweed	sessilifolium*	Upland boneset
tuberosa		Butterfly weed	Galinsoga quadriradiata	Devil's delight
variegata		White milkweed	Gnaphalium obtusifolium	Rabbit tobacco
verticillata		Whorled milkweed	purpureum	Purple cudweed
viridiflora		Green-flowered milkweed	Helianthus decapetalus	Thin-leaved sunflower
Cynanchum laeve		Honey vine, Swallow vine	grosseserratus*	Sawtooth sunflower
Matelea obliqua		Angle pod	strumosus*	Pale-leaved sunflower
	Asteraceae		Heterotheca mariana	Golden aster
Achillea millefolium		Yarrow	Hieracium caespitosum	King Devil
			gronovii	Hairy hawkweed
			paniculatum*	Woodland hawkweed
			pilosella	Mouse-ear hawkweed
			scabrum	Rough hawkweed
			venosum	Rattlesnake weed
			Krigia virginica	Dwarf dandelion
			Lactuca biennis	Wild lettuce
			canadensis	Wild lettuce
			Prenanthes alba* note 2	White lettuce
			Pyrrhopappus carolinianus*	False dandelion
			Rudbeckia hirta	Black-eyed Susan
			laciniata	Tall coneflower

* Plant not seen in 2010

Senecio ananymus aureus	Ragwort	Triodanis perfoliata	Venus' looking glass
Sericocarpus asteroides	Golden ragwort		
Solidago altissima	Toothed white topped aster	Caprifoliaceae	
bicolor	Tall goldenrod	Lonicera japonica	Japanese honeysuckle
caesia	Silverrod	Sambucus canadensis	Elderberry
canadensis	Wreath goldenrod	Symphoricarpos orbiculartus	Coral berry
erecta	Tall goldenrod	Viburnum acerifolium	Maple-leaved viburnum
gigantea	Slender goldenrod	dentatum*	Southern arrowwood
juncea	Late goldenrod	nudum	Possum haw
nemoralis	Early goldenrod	prunifolium	Black haw
odora	Sweet goldenrod		
rugosa	Rough goldenrod	Caryophyllaceae	
Taraxacum officinale	Dandelion	Cerastium glomeratum	Mouse-ear chickweed
Tragopogon pratensis* note 3	Yellow goatsbeard	semidecandrum	Dwarf mouse-ear chickweed
Verbesina alternifolia	Wingstem	Dianthus armeria	Deptford pink
occidentalis	Crown-beard	Holosteum umbellatum*	Jagged chickweed
Vernonia noveboracensis	New York ironweed	Paronychia canadensis	Smooth forked nailwort
Xanthium strumarium	Cocklebur	fastigiata	Hairy forked nailwort
Youngia japonica	Japanese hawkweed	Scleranthus annuus*	Knawel
		Silene antirrhina*	Sleepy catchfly
Balsaminaceae		caroliniana*	Wild pink
Impatiens capensis	Jewelweed	cucubalus	Bladder campion
		virginica	Fire pink
Berberidaceae		Stellaria media	Common chickweed
Berberis thunbergii	Japanese barberry	pubera	Giant chickweed, Great, Showy
Podophyllum peltatum	May apple, Mandrake		
		Celastraceae	
Betulaceae		Celastrus orbiculatus	Asiatic bittersweet
Alnus serrulata	Smooth alder	Euonymus alatus	Burning bush
Betula lenta	Black birch	americanus	Strawberry bush
Carpinus caroliniana	American hornbeam		
Corylus americana	Hazelnut	Chenopodiaceae	
Ostrya virginiana	Hop hornbeam	Chenopodium album*	Lamb's quarters
		ambrosioides*	Mexican tea
Bignoniaceae			
Campsis radicans	Trumpet creeper	Cistaceae	
Catalpa speciosa	Catalpa	Lechea racemulosa	Pinweed
Boraginaceae		Convolvulaceae	
Lithospermum arvense	Corn gromwell	Calystegia sepium	Hedge bindweed
Mertensia virginica	Virginia bluebells	spithamaea	Low bindweed
Myosotis laxa	Smaller forget me not	Convolvulus arvensis	Bindweed
macrosperma	Scorpion grass	Cuscuta gronovii	Common dodder
		Ipomoea hederacea	Ivy-leaved morning glory
Brassicaceae		lacunosa	Small white morning glory
Arabidopsis thaliana*	Mouse-ear cress	pandurata	Wild potato vine
Arabis canadensis	Sicklepod	purpurea	Morning glory
laevigata	Smooth rock cress		
Barbarea vulgaris	Winter cress	Cornaceae	
Brassica rapa	Turnip	Cornus amomum	Silky dogwood
Capsella bursa-pastoris	Shepherd's purse	florida	Flowering dogwood
Cardamine hirsuta	Hairy bittercress		
pennsylvanica	Pennsylvania bittercress	Cucurbitaceae	
Lepidium campestre	Field cress	Sicyos angulatus	Bur cucumber
virginicum	Peppergrass		
Rorippa palustris	March yellow cress	Ebenaceae	
Sisymbrium altissimum*	Tumble mustard	Diospyros virginiana	Persimmon
Thlaspi arvense	Field pennycress		
		Elaeagnaceae	
Callitrichaceae		Elaeagnus umbellata	Autumn olive
Callitriche heterophylla	Larger water starwort		
		Ericaceae	
Campanulaceae		Chimaphila maculata	Striped wintergreen
Lobelia cardinalis	Cardinal flower	umbellata*	Pipsissewa
inflata	Indian tobacco	Epigaea repens	Trailing arbutus
spicata	Spiked lobelia	Gaylussacia baccata	Black huckleberry
		Kalmia latifolia	Mountain laurel

* Plant not seen in 2010

Lyonia ligustrina	Maleberry	Quercus alba	White oak
Monotropa hypopithys	Pinesap	coccinea	Scarlet oak
Monotropa uniflora	Indian pipe	falcata	Southern red oak
Pyrola rotundifolia*	American wintergreen	prinus	Chestnut oak
Rhododendron periclymenoides	Wild azalea	rubra	Red oak
Vaccinium corymbosum	High bush blueberry	stellata	Post oak
pallidum	Lowbush blueberry	velutina	Black oak
stamineum	Deerberry		
	Euphorbiaceae		
Acalypha rhomboidea	Three-seeded mercury	Corydalis flavula	Yellow corydalis
virginica	Three-seeded mercury		
Croton glandulosus	Tooth-leaved croton	Gentianaceae	
Euphorbia corollata	Flowering spurge	Sabatia angularis	Rose pink
maculata	Eyebane		
supina	Prostate spurge	Geraniaceae	
		Erodium cicutarium*	Storksbill
		Geranium carolinianum	Carolina crane's bill
		maculatum	Wild geranium
		molle	Dove foot geranium
	Fabaceae		
Albizia julibrissin	Mimosa	Hamamelidaceae	
Amorpha fruticosa	False indigo bush	Hamamelis virginiana	Witch hazel
Amphicarpa bracteata	Hog-peanut		
Apios americana	Groundnut	Hypericaceae	
Cassia chamaecrista*	Partridge pea	Hypericum hypericoides	Pineweed
hebecarpa*	Wild senna	mutilum	Dwarf St. Johnswort
marilandica	Wild senna	perforatum	Common St. Johnswort
nicitans	Sensitive plant	punctatum	Spotted St. Johnswort
Cercis canadensis	Redbud	stans	St. Peterswort
Clitoria mariana	Butterfly pea	walteri	Greater marsh St. Johnswort
Coronilla varia	Crown vetch		
Desmodium canescens*	Hoary tick-trefoil	Juglandaceae	
ciliare	Hairy small leaved tick-trefoil	Carya cordiformis	Bitternut hickory
glabellum	Dillen's tick-trefoil	glabra	Pignut hickory
glutinosum*	Pointed-leaved tick-trefoil	ovalis	Red hickory
laevigatum	Smooth tick-trefoil	ovata*	Shagbark hickory
marilandicum	Maryland tick-trefoil	tomentosa	Mockernut hickory
nudiflorum	Naked-flowered tick-trefoil	Juglans cinerea	Butternut
paniculatum	Panniced tick-trefoil	nigra	Black walnut
rotundifolium*	Prostrate tick-trefoil		
sessilifolium*	Sessile-leaved tick trefoil		
viridiflorum	Velvety tick-trefoil		
Gleditsia triacanthos	Honey locust	Lamiaceae	
Lespedeza capitata*	Round-headed bush-clover	Collinsonia canadensis	Horse balm
cuneata	Sericea	Cunila organoides	Dittany
hirta	Hairy bush-clover	Glechoma hederacea	Gill over the ground
intermedia	Wand-like bush-clover	Hedeoma pulegioides	American pennyroyal
procumbens	Trailing bush-clover	Lamium amplexicaule	Henbit
repens	Creeping bush-clover	purpureum	Purple dead nettle
striata*	Japanese bush-clover	Leonurus cardiaca	Motherwort
violacea	Violet bush-clover	Lycopus americanus	Water horehound
Medicago sativa*	Alfalfa	uniflorus	Northern bugleweed
Melilotus alba	White sweetclover	virginicus	Virginia bugleweed
officinalis	Yellow sweetclover	Mentha piperita	Peppermint
Robinia pseudoacacia	Black locust	spicata*	Spearmint
Tephrosia virginiana	Goat's rue	Monarda fistulosa	Wild bergamot
Trifolium agrarium	Hop clover	punctata	Horsemint
arvense	Rabbitsfoot clover	Nepeta cataria	Catnip
campestre	Low hop clover	Perilla frutescens	Beefsteak plant
dubium	Least hop clover	Prunella vulgaris	Heal-all
pratense	Red clover	Pycnanthemum tenuifolium*	Narrow-leaved mountain mint
repens	White clover	Salvia lyrata	Lyre-leaved sage
Vicia angustifolia (sativa)	Common vetch	Satureja vulgaris	Basil
Wisteria sinensis	Wisteria	Scutellaria elliptica	Hairy skullcap
		integrifolia	Hyssop skullcap
		lateriflora	Mad-dog skullcap
		serrata*	Showy skullcap
	Fagaceae	Teucrium canadense	Germander
Castanea dentata	American chestnut	Trichostema dichotomum	Blue curls
pumila	Chinquapin		
Fagus grandifolia	Beech		

* Plant not seen in 2010

Lindera benzoin Sassafras albidum	Lauraceae	Spicebush Sassafras	Phytolacca americana	Phytolaccaceae	Pokeweed
Linum medium virginianum	Linaceae	Yellow flax Yellow flax	Plantago aristata lanceolata rugelii virginica	Plantaginaceae	Bracted plantain Narrow-leaved plantain Plantain Dwarf plantain
Phoradendron serotinum	Loranthaceae	Mistletoe	Platanus occidentalis	Platanaceae	Sycamore
Rotala ramosior	Lythraceae	Tooth cup	Polygonum arifolium aviculare caespitosum hydropiper lappathifolium pennsylvanicum persicaria punctatum sagittatum scandens virginiana	Polygonaceae	Halberd-leaved tearthumb Knotweed Asiatic water pepper Common smartweed Dock-leaved smartweed Pennsylvania smartweed Lady's thumb Water smartweed Arrowleaf tearthumb Climbing false buckwheat Jumpseed (Tovara) Sheep sorrel Dock Curly dock
Liriodendron tulipifera	Magnoliaceae	Tulip popular	Rumex acetosella conglomeratus crispus	Primulaceae	Fringed loosestrife Moneywort Whorled loosestrife
Hibiscus moscheutos Malva neglecta Sida spinosa	Malvaceae	Rose mallow Common mallow Prickly mallow	Lysimachia ciliata nummularia quadrifolia	Ranunculaceae	Baneberry, Doll's eye Thimbleweed Rue anemone Black cohosh Hepatica Kidney-leaved buttercup Bulbous buttercup Hooked buttercup Late meadowrue Meadowrue
Menispermum canadense	Menispermaceae	Moon seed	Ceanothus americanus* Rhamnus caroliniana	Rhamnaceae	New Jersey tea Carolina buckthorn
Maclura pomifera Morus alba rubra	Moraceae	Osage orange White mulberry Red mulberry	Agrimonia parviflora pubescens rostellata	Rosaceae	Small flowered agrimony Downy agrimony Beaked agrimony
Nyssa sylvatica	Nyssaceae	Black gum	Alchemilla microcarpa Amelanchier arborea canadensis* Aruncus dioicus* Crataegus sp. uniflora Duchesnea indica Fragaria virginiana Geum canadense Gillenia trifoliata* Potentilla canadensis norvegica* recta		
Chionanthus virginicus Fraxinus americana Ligustrum sinense	Oleaceae	Fringetree White ash Privet			
Circaea lutetiana Epilobium coloratum Ludwigia alternifolia decurrens palustris peploides Oenothera biennis laciniata	Onagraceae	Enchanter's nightshade Purple-leaved willow-herb Seedbox Primrose willow Marsh purslane Creeping water-primrose Evening primrose Cut-leaved evening primrose			
Conopholis americana* Epifagus virginiana	Orobanchaceae	Squawroot Beech drops			
Oxalis corniculata dilleni stricta violacea	Oxalidaceae	Creeping oxalis Upright yellow wood sorrel Sorrel Violet wood sorrel			
Sanguinaria canadensis	Papaveraceae	Bloodroot			
Passiflora lutea	Passifloraceae	Yellow passion-flower			
Phryma leptostachya	Phrymaceae	Lopseed			

* Plant not seen in 2010

Notes

Note 1: *Spiranthes cernua* has only been found once in the Ivy Creek Natural Area.

It was found growing beside the Peninsula Trail with Trailing Arbutus.

Because of its habitat, it was most likely what is now called *Spiranthes ochroleuca* or *S. cernua* var. *ochroleuca*.

Note 2: Vegetative plants of a *Prenanthes* sp. were found in 2010. We were not able to determine the exact species.

Note 3: Vegetative plants of a *Tragopogon* sp. were found in 2010. We were not able to determine the exact species.

Note 4: The tree off the Red trail traditionally called a Shagbark Hickory is actually Red Hickory, *Carya ovalis*.

Note 5: Our plants have some of the characteristics of *Rhamnus frangula*. They need to be critically examined at flowering and again with mature fruit to determine which *Rhamnus* grows at Ivy Creek.

With the exception of the genus *Botrychium*, plant identifications follow those given by:

1. Manual of the Vascular Flora of North Carolina; Radford, Ahles, and Bell; 1968; University of North Carolina Press
2. Flora of West Virginia; Strausbaugh and Core; 1977; Seneca Books
3. Manual of Vascular Plants, second edition; Gleason and Cronquist; 1991; New York Botanical Gardens

The treatment of the genus *Botrychium* is as described by Wherry in The Fern Guide; Wherry; 1961; Doubleday

Cultivated plants in the beds around the education building and the quiet area are not included in this survey.