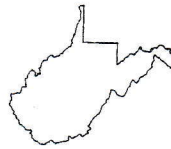


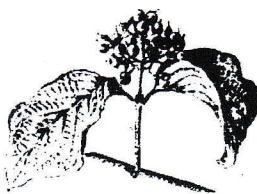
Excursions in West Virginia Botany

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HERBACEOUS FLORA OF EAST LYNN WMA

EAST LYNN, WEST VIRGINIA

A. Study by Romie Hughart¹ and Richard Thompson

The East Lynn Wildlife Management Area (WMA) is located in the southeastern portion of Wayne County, WV. It includes 1005 acres of surface water and 24,821 acres of land. The lake is a multipurpose flood control facility operated by the US Army Corps of Engineers. Construction of the outlet works was completed in 1968, the dam was completed in 1971 and the pooling began in 1971. The East Fork of Twelve Pole Creek was dammed 52 miles south of its confluence with the Ohio River to create the lake. The elevation of the WMA ranges from 495 to 1,650 feet above mean sea level.

The WMA objectives include: protecting wildlife, and providing opportunities for camping, fishing, hiking, boating and riding all-terrain vehicles.

Wayne County, WV was initially settled near the current town of Fort Gay by Samuel Short in 1796. The area near East Lynn, then called Twin Creek, was first settled in 1802 by James Bias. Development of small coal mines occurred in the mid 1800's and remnants of this activity can still be found within the WMA. Timbering and small farms historically dominated southeastern Wayne County.

The WMA is currently forested. Although there are many tree species, the dominant tree species are: *Liriodendron tulipifera* (tulip tree, poplar), *Acer saccharum* (sugar maple), various species of *Carya* (hickory), and *Quercus* (oak). There are occasional patches of *Pinus virginiana* (Virginia pine) and *Tsuga canadensis* hemlock)

1. Author for correspondence Romie Hughart rch25704@yahoo.com

The bedrock is primarily composed of sedimentary rocks, sandstone and shale, which date, geologically, from the Pennsylvanian period. Three series are present; the Conemaugh, Allegheny and Pottsville. These are conformable with no faulting. The soils, as surveyed by the U. S. Soil Conservation service are the "Gilpin-Upshur series." The soils have a fairly high clay or silt content.

Climatic data is collected daily at the office of the East Lynn WMA. Data recorded from 2005 through 2007 were used to determine the average temperature and precipitation. Average yearly high temperature was 21°C (70°F). The two warmest months were July and August with an average high temperature of 31°C (87°). The average yearly low temperature was 7°C (44°). Average monthly precipitation for the three-year period was 9.6 cm (3.78 inches).

Our study began in 2000 and was completed in 2011. During this time thirteen different sites were surveyed. Our surveys would normally begin in late March. If a site was heavily forested, the site would be abandoned at the end of May. Another open area site would be used for summer and fall flower study. This would usually begin in June and end in early September.

Each site was visited every two weeks. This schedule meant that documentation would be made only when species were in bloom. Wildflower documentation was limited to blooming plants. Identification utilized five different field guides: K. Yatskievych *Field Guide to Indiana Wild Flowers*, P. D. Strausbaugh and E. Core *Flora of West Virginia*, L. Newcomb *Newcomb's Wildflower Guide*, R.

T. Peterson and M. McKenny *A Field Guide to Wildflowers*, and Horn, Cathcart, Hemmerly and Duhl *Wildflowers of Tennessee and the Ohio Valley and the Southern Appalachians*. A few plant identifications were done by Bill Grafton (deceased) and Donna Ford (WVU).

A total of 313 species of herbaceous wildflowers was recorded. This consisted of 189 genera representing 59 plant families. A list of recorded wildflowers for Wayne County was provided by Dr. Donna Ford. If a wildflower was not included in this county list, a specimen was collected, pressed and sent to the WVU herbarium. Specimens of One hundred thirty three previously undocumented species for Wayne County WV were thus deposited. *Packeria glabella* had not been previously recorded in West Virginia.

One fern, *Trichomanes boschianum* (filmy fern), was also submitted to the herbarium.

All nomenclature follows that used in: Harmon, P. J., D. Ford-Werntz, W. Grafton., 2006 *Checklist and Atlas of the Vascular Flora of West Virginia*. West Virginia Division of Natural Resources, Wildlife Resources Section, Elkins WV. 381 p.

The authors wish to thank Mike Smith, director at the East Lynn WMA, for permitting us to perform this wildflower study. During the early spring we would discuss our findings of the previous year's study with him. He always showed great interest in our results. He wanted to know of any rare species and if anything needed to be done for their protection. We would also like to thank rangers Jay Davis and David Scragg for their help. All three at some time accompanied us on our trips.

SPECIES LIST

This list of the herbaceous flora of the East Lynn Wildlife Management Area contains 313 species in 189 genera from 59 families. The two largest families are the Asteraceae with 23% of the total and the Lamiaceae with 7%; the Orchidaceae are not far behind with 5% of the species found. 133 species not recorded for Wayne County WV in the *Checklist and Atlas of the Vascular Flora of West Virginia* are indicated by an * after the species name (vouchers of these species were deposited in the West Virginia University Herbarium).

MAGNOLIOPSIDA

Acanthaceae

- | | |
|---|--------------------|
| <i>Justicia americana</i> (L.) Vahl. | Water Willow |
| <i>Ruellia caroliniensis</i> (J.F. Gmel.) Steud.* | Wild Petunia |
| <i>R. caroliniensis</i> (white flowered) | White Wild Petunia |

Apiaceae

- | | |
|--|----------------------------|
| <i>Angelica venenosa</i> (Greenway) Fern. | Hairy Angelica |
| <i>Cicuta maculata</i> L. * | Water Hemlock |
| <i>Cryptotaenia canadensis</i> (L.) DC. | Honewort |
| <i>Daucus carota</i> L. | Queen Ann's Lace |
| <i>Osmorhiza claytonii</i> (Michx.) C. B. Clarke | Hairy Sweet Cicely |
| <i>Thaspium barbinode</i> (Michx.) Nutt. | Jointed Meadow-parsnip |
| <i>Zizia aurea</i> (L.) W.D. J. Koch | Golden Alexanders |
| <i>Z. trifoliata</i> (Michx.) Fern. | Mountain Golden Alexanders |

Apocynaceae

- | | |
|----------------------------------|----------------------|
| <i>Apocynum cannabinum</i> L. | Indian Hemp |
| <i>A. x floribundum</i> Greene * | Intermediate Dogbane |
| <i>Vinca minor</i> L. | Periwinkle, Myrtle |

Araliaceae

- | | |
|---------------------------------|---------|
| <i>Panax quinquefolius</i> L. * | Ginseng |
|---------------------------------|---------|

Aristolochiaceae

- | | |
|----------------------------|-------------|
| <i>Asarum canadense</i> L. | Wild Ginger |
|----------------------------|-------------|

Asclepiadaceae

- | | |
|--|----------------------|
| <i>Asclepias incarnata</i> L. ssp. <i>pulchra</i> (Ehrh. ex Willd.) Woods. | |
| | Swamp Milkweed |
| <i>A. quadrifolia</i> Jacq. | Four-leaved Milkweed |
| <i>A. syriaca</i> L. | Common Milkweed |
| <i>A. tuberosa</i> L. | Butterfly Weed |
| <i>A. variegata</i> L. | White Milkweed |
| <i>Matelea obliqua</i> (Jacq.) Woods. | Angle-pod |

Asteraceae

- | | |
|---|-------------------------|
| <i>Achillea millefolium</i> L. var. <i>occidentalis</i> DC. | Yarrow |
| <i>Ageratina altissima</i> (L.) King & H. E. Robins * | White Snakeroot |
| <i>Antennaria plantaginifolia</i> (L.) Richards | Plantainleaf Pussytoes |
| <i>A. solitaria</i> Rydb. | Single-headed Pussytoes |
| <i>Arnoglossum atriplicifolium</i> H. E. Robins. * | Pale Indian Plantain |
| <i>A. muehlenbergii</i> (Sch. Bip.) H. E. Robins. | Great Indian Plantain |
| <i>Bidens coronata</i> (L.) Britt. * | Tick Sunflower |

- | | |
|---|-----------------------------|
| <i>Centaurea biebersteinii</i> DC. | Spotted Knapweed |
| <i>Chrysopsis mariana</i> (L.) Ell. | Golden Aster |
| <i>Cirsium altissimum</i> (L.) Hill. * | Tall Thistle |
| <i>C. discolor</i> (Muhl. ex Willd.) Spreng. | Field Thistle |
| <i>C. vulgare</i> (Savi) Ten. * | Common Thistle |
| <i>Coreolinum coelestinum</i> (L.) DC. | Mistflower |
| <i>Coreopsis lanceolata</i> L. * | Lance-leaved Tickseed |
| <i>C. major</i> Walt. | Wood Tickseed |
| <i>C. tripteris</i> L. | Tall Coreopsis |
| <i>Crepis capillaris</i> (L.) Wallr. * | Smooth Hawksbeard |
| <i>Doellingeria infirma</i> (Michx.) Greene * | White Aster |
| <i>D. umbellata</i> (D. Mill.) Nees | Flat-top White Aster |
| <i>Eclipta prostrata</i> (L.) L. * | Herb of Stumps |
| <i>Elephantopus carolinianus</i> Willd. | Elephant's Foot |
| <i>Erechtites hieraciifolia</i> (L.) Raf. ex DC. * | Pilewort |
| <i>Erigeron annuus</i> (L.) Pers. | White-top |
| <i>E. philadelphicus</i> L. | Philadelphia Fleabane |
| <i>E. strigosus</i> Muhl. | Daisy Fleabane |
| <i>Eupatorium album</i> L. | White Thoroughwort |
| <i>E. fistulosum</i> Barratt * | Joe-pye-weed |
| <i>E. pilosum</i> Walt. | Vervain Thoroughwort |
| <i>E. rotundifolium</i> L. var. <i>ovatum</i> (Bigelow) Torr. * | Hairy Thoroughwort |
| <i>E. serotinum</i> Michx. | Late Flowering Thoroughwort |
| <i>Eurybia divaricata</i> (L.) Nesom * | White Wood Aster |
| <i>Euthamia graminifolia</i> (L.) Nutt. | Grass-leaved Goldenrod |
| <i>Gamochaeta purpurea</i> (L.) Cabrera | Purplish Cudweed |
| <i>Helianthus decapetalus</i> L. * | Thin Leaved Sunflower |
| <i>H. divaricatus</i> L. | Woodland Sunflower |
| <i>H. hirsutus</i> Raf. * | Hirsute sunflower |
| <i>H. microcephalus</i> Torr. & Gray * | Small-headed Sunflower |
| <i>H. strumosus</i> L. * | Pale-leaved Sunflower |
| <i>H. tuberosus</i> L. | Jerusalem Artichoke |
| <i>Hieracium caespitosum</i> Dumort. | Field Hawkweed |
| <i>H. gronovii</i> L. | Hairy Hawkweed |
| <i>H. venosum</i> L. | Rattlesnake-weed |
| <i>H. x floribundum</i> Wimm. & Grab. * | Smooth Hawkweed |
| <i>Krigia biflora</i> (Walt.) Blake | Cynthia |
| <i>Lactuca canadensis</i> L. | Wild Lettuce |
| <i>L. floridana</i> (L.) Gaertn. var. <i>floridana</i> | Florida Blue Lettuce |
| <i>L. floridana</i> (L.) Gaertn. var. <i>villosa</i> (Jacq.) Cronq. * | Florida Blue Lettuce |
| <i>Leucanthemum vulgare</i> Lam. * | Ox-eye Daisy |
| <i>Packera anonyma</i> (Wood) W.A. Weber & A. Love | Small's Ragwort |
| <i>P. aurea</i> (L.) A. & D. Love | Golden Ragwort |
| <i>P. glabella</i> (Poir.) C. Jeffrey * | Cress-leaf Groundsel |
| <i>P. obovata</i> (Muhl. ex Willd.) W.A. Weber & A. Love | Round-leaf Groundsel |
| <i>P. paupercula</i> (Michx.) A. & D. Love | Balsam Groundsel |
| <i>Prenanthes alba</i> L. * | White Lettuce |

Asteraceae continued

<i>P. serpentaria</i> Pursh. *	Gall-of-the-earth
<i>Pseudognaphalium obtusifolium</i> (L.) Hillard & Burtt.	Old Field Balsam
<i>Rudbeckia hirta</i> L.	Black-eyed Susan
<i>R. laciniata</i> L.	Tall Coneflower
<i>Sericocarpus asteroides</i> (L.) B.S.P. *	Toothed White-topped Aster
<i>Silphium trifoliatum</i> L.	Whorled Rosinweed
<i>Smallanthus uvedalius</i> (L.) Mackenzie ex Small *	Yellow-flowered Leaf Cup
<i>Solidago caesia</i> L.	Wreath Goldenrod
<i>S. gigantea</i> Ait.	Late Goldenrod
<i>S. nemoralis</i> Ait.	Old Field Goldenrod
<i>S. puberula</i> Nutt.	Downy Goldenrod
<i>Symphotrichum lanceolatum</i> (Willd.) Nesom *	Panicled Aster
<i>S. patens</i> (Ait.) Nesom	Late Purple Aster
<i>Tussilago farfara</i> L.	Coltsfoot
<i>Verbesina alternifolia</i> (L.) Britt. ex Kearney *	Wing-stem
<i>V. occidentalis</i> (L.) Walt.	Small Yellow Crownbeard
<i>Vernonia gigantea</i> (Walt.) Trel.	Tall Ironweed

Balsamineae

<i>Impatiens capensis</i> Meerb.	Spotted Jewelweed
<i>I. pallida</i> Nutt.	Pale Jewelweed

Berberidaceae

<i>Caulophyllum thalictroides</i> (L.) Michx.	Blue Cohosh
<i>Podophyllum peltatum</i> L. *	May-apple

Bignoniaceae (woody vines)

<i>Bignonia capreolata</i> L.*	Crossvine
<i>Campsis radicans</i> (L.) Seeman ex Bureau	Trumpet-creeper

Boraginaceae

<i>Cynoglossum virginianum</i> L.	Wild Comfrey
<i>Myosotis verna</i> Nutt. *	Spring Scorpion-grass

Brassicaceae

<i>Arabis glabra</i> (L.) Bernh. *	Tower Mustard
<i>A. laevigata</i> (Muhl. ex. Willd.) Poir. var. <i>burkii</i> Porter	Smooth Rock Cress
<i>Barbarea vulgaris</i> Ait. f.	Winter Cress
<i>Cardamine angustata</i> O. E. Schulz	Slender Toothwort
<i>C. diphylla</i> (Michx.) Wood	Two-leaved Toothwort
<i>C. concatenata</i> (Michx.) O. Schwarz	Cutleaf Toothwort
<i>Hesperis matronalis</i> L. *	Dame's Rocket

Campanulaceae

<i>Campanulastrum americanum</i> (L.) Small	Tall Bellflower
<i>Lobelia cardinalis</i> L.	Cardinal-flower
<i>L. inflata</i> L.	Indian Tobacco
<i>L. puberula</i> Michx. *	Downy Lobelia
<i>L. siphilitica</i> L.	Great Blue Lobelia
<i>L. spicata</i> Lam. var. <i>leptostachys</i> (A. DC.) Mackenzie & Bush	Spiked Lobelia
<i>Triodanis perfoliata</i> (L.) Nieuwl. *	Venus' Looking Glass

Caprifoliaceae

<i>Lonicera japonica</i> Thunb.	Japanese Honeysuckle
<i>Triosteum aurantiacum</i> Bickn.	Horse-gentian

Caryophyllaceae

<i>Dianthus armeria</i> L. *	Deptford Pink
<i>Silene stellata</i> (L.) Ait. f.	Starry Campion
<i>S. virginica</i> L.	Fire Pink

Caryophyllaceae continued

<i>Stellaria corei</i> Shinnars	Tennessee Chickweed
<i>S. graminea</i> L.	Lesser Stitchwort
<i>S. media</i> (L.) Vill	Common Chickweed
<i>S. pubera</i> Michx.	Great Chickweed

Clusiaceae

<i>Hypericum hypericoides</i> (L.) Crantz	St. Andrew's Cross
<i>H. mutilum</i> L.	Small-Flowered St. John's-wort
<i>H. perforatum</i> L. *	Common St. John's-wort

Convolvulaceae

<i>Calystegia sepium</i> (L.) R. Br. ssp. <i>americana</i> (Sims) Brummitt *	Hedge Bindweed
<i>Ipomoea coccinea</i> L.	Red Morning-glory
<i>I. hederacea</i> Jacq.	Ivy-leaved Morning-glory
<i>I. lacunosa</i> L.	Small-flowered Morning-glory
<i>I. pandurata</i> (L.) G. F. W. Mey.	Wild Potato Vine

Crassulaceae

<i>Penthorum sedoides</i> L. *	Ditch Stonecrop
<i>Sedum ternatum</i> Michx.	Wild Stonecrop

Cuscutaceae

<i>Cuscuta gronovii</i> Willd. ex J. A. Schultes *	Common Dodder
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Ericaceae

<i>Epigaea repens</i> L.	Trailing Arbutus
<i>Gaultheria procumbens</i> L.	Teaberry

Euphorbiaceae

<i>Euphorbia corollata</i> L.	Flowering Spurge
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Fabaceae

<i>Amphicarpaea bracteata</i> (L.) Fern. *	Hog-peanut
<i>Apios americana</i> Medik.	Groundnut
<i>Chamaecrista nictitans</i> (L.) Moench *	Wild Sensitive Plant
<i>Clitoria mariana</i> L.	Butterflypea
<i>Desmodium marilandicum</i> (L.) DC.	Smooth Small-leaved Tick-trefoil
<i>D. nudiflorum</i> (L.) DC.	Naked-flowered Tick-trefoil
<i>D. paniculatum</i> (L.) D	Panicled-leaf Tick-trefoil
<i>Lotus corniculatus</i> L.	Birdsfoot Trefoil
<i>Senna marilandica</i> (L.) Link	Wild Senna
<i>Strophostyles helvula</i> (L.) Ell.	Trailing Wild Bean
<i>Tephrosia virginiana</i> (L.) Pers.	Goat's Rue
<i>Vicia caroliniana</i> Walt.	Wild Vetch

Fumariaceae

<i>Corydalis flavula</i> (Raf.) DC.	Yellow Corydalis
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Gentianaceae

<i>Gentiana villosa</i> L.	Sampson's Snakeroot
<i>Obolaria virginica</i> L.	Pennywort
<i>Sabatia angularis</i> (L.) Pursh	Rose Pink

Geraniaceae

<i>Geranium maculatum</i> L.	Wild Geranium
<i>G. pusillum</i> L. *	Small-flowered Cranesbill

Lamiaceae

<i>Clinopodium vulgare</i> L.*	Field Basil
<i>Cunila origanoides</i> (L.) Britt.	Dittany
<i>Lycopus americanus</i> Muhl ex W. Bart. *	Water Horehound
<i>L. virginicus</i> L.	Bugleweed
<i>Meehania cordata</i> (Nutt.) Britt.	Meehania

Lamiaceae continued

<i>Monarda clinopodia</i> L.	Basil Balm
<i>M. didyma</i> L.	Bee Balm
<i>M. fistulosa</i> L.	Wild Bergamont
<i>M. media</i> Willd. *	Purple Bergamont
<i>Perilla frutescens</i> (L.) Britt.	Beefsteak Plant
<i>P. frutescens</i> var. <i>crispa</i> W. Deane *	Beefsteak Plant
<i>Prunella vulgaris</i> L.	Selfheal
<i>Pycnanthemum incanum</i> (L.) Michx. *	Hoary Mountain-mint
<i>P. tenuifolium</i> Schrad. *	Narrowleaf Mountain-mint
<i>P. verticillatum</i> (Michx.) Pers. var. <i>pilosum</i> (Nutt.)	
Cooperrider	Hairy Mountain-mint
<i>Salvia lyrata</i> L.	Lyre-Leaved Sage
<i>Scutellaria elliptica</i> Muhl.	Hairy Skullcap
<i>S. incana</i> Biehler	Downy Skullcap
<i>S. nervosa</i> Pursh	Veined Skullcap
<i>S. serrata</i> Andr. *	Showy Skullcap
<i>Stachys nuttallii</i> Schuttlew. ex. Benth.	Nuttall's Hedge-Nettle
<i>Teucrium canadense</i> L.	American Germander
<i>Trichostema dichotomum</i> L.	Blue Curly

Linaceae

<i>Linum virginianum</i> L.	Virginia Yellow Flax
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Lythraceae

<i>Cuphea viscosissima</i> Jacq.	Tarweed
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Malvaceae

<i>Hibiscus moscheutos</i> L. spp. <i>moscheutos</i> *	Swamp Rose Mallow (white)
<i>H. moscheutos</i> L. spp. <i>palustris</i> *	Mallow (pink)

Monotropaceae

<i>Monotropa hypopithys</i> L.	Pinesap
<i>M. uniflora</i> L.	Indian Pipe

Onagraceae

<i>Circaea lutetiana</i> L. spp. <i>canadensis</i> (L.) Aschers. & Magnus	Enchanter's-nightshade
<i>Ludwigia alternifolia</i> L. *	Seedbox
<i>Oenothera biennis</i> L. *	Common Evening-primrose

Orobanchaceae

<i>Conopholis americana</i> (L.) Wallr. f.	Cancerroot
<i>Epifagus virginiana</i> (L.) Bart.	Beechdrops

Oxalidaceae

<i>Oxalis stricta</i> L.	Yellow Wood Sorrel
<i>O. violacea</i> L.	Violet Wood Sorrel

Papaveraceae

<i>Sanguinaria canadensis</i> L.	Bloodroot
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Phytolaccaceae

<i>Phytolacca americana</i> L.	Pokeweed
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Polemoniaceae

<i>Phlox divaricata</i> L.	Wild Blue Phlox
<i>P. glaberrima</i> L. spp. <i>triflora</i> (Michx.) Wherry	Smooth Phlox

Polemoniaceae continued

<i>Polemonium reptans</i> L.	Greek Valerian
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Polygalaceae

<i>Polygala sanguinea</i> L.	Rose Polygala
<i>P. senega</i> L. *	Seneca Snakeroot

Polygonaceae

<i>Fagopyrum esculentum</i> Moench *	Buckwheat
<i>Polygonum convolvulus</i> L. *	Black Bindweed
<i>P. cuspidatum</i> Sieb. & Zucc.	Japanese Knotweed

Portulacaceae

<i>Claytonia caroliniana</i> Michx.	Carolina Spring Beauty
<i>C. virginica</i> L.	Spring Beauty

Primulaceae

<i>Anagallis arvensis</i> L. *	Common Pimpernel
<i>Lysimachia japonica</i> Thunb. *	Japanese Loosestrife
<i>L. nummularia</i> L.	Moneywort
<i>L. quadriflora</i> Sims	Four-flowered Loosestrife

Pyrolaceae

<i>Chimaphila maculata</i> (L.) Gray	Spotted Wintergreen
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Ranunculaceae

<i>Actaea racemosa</i> L.	Black Snakeroot
<i>Anemone quinquefolia</i> L.	Wood Anemone
<i>A. virginiana</i> L.	Thimbleweed
<i>Clematis virona</i> L.	Leatherflower
<i>C. virginiana</i> L.	Virgin's Bower
<i>Enemion biternatum</i> Raf.	False Rue Anemone
<i>Hepatica nobilis</i> P. Mill. var. <i>acuta</i> (Pursh) Steyermark	Sharp-lobed Hepatica
<i>H. nobilis</i> P. Mill. var. <i>obtusa</i> (Pursh) Steyermark *	Round-lobed Hepatica
<i>Hydrastis canadensis</i> L.	Goldenseal
<i>Ranunculus abortivus</i> L.	Kidneyleaf Crowfoot
<i>R. fascicularis</i> Muhl. ex Bigelow	Thickroot Crowfoot
<i>R. hispidus</i> Michx. *	Hispid Buttercup
<i>R. recurvatus</i> Poir.	Hooked Crowfoot
<i>Thalictrum dioicum</i> L.	Early Meadowrue
<i>T. pubescens</i> Pursh *	Tall Meadowrue
<i>T. thalictroides</i> (L.) Eames & Boivin *	Rue Anemone

Rosaceae

<i>Agrimonia gryposepala</i> Wallr.	Tall Agrimony
<i>A. parviflora</i> Ait. *	Small-flowered Agrimony
<i>Geum aleppicum</i> Jacq.	Yellow Avens
<i>G. canadense</i> Jacq.	White Avens
<i>G. virginianum</i> L.	Rough Avens
<i>Porteranthus stipulatus</i> (Muhl. ex Willd.) Britt.	American Ipecac
<i>Potentilla recta</i> L.	Upright Cinquefoil
<i>Rosa blanda</i> Ait.	Smooth Rose (woody shrub)
<i>R. carolina</i> L.	Pasture Rose (woody shrub)

Rubiaceae

<i>Diodia teres</i> Walt. *	Rough Buttonweed
<i>D. virginiana</i> L.	Larger Buttonweed
<i>Houstonia caerulea</i> L.	Bluets

Rubiaceae continued

- H. longifolia* Gaertn. * Summer Bluets
Mitchella repens L. Partridge Berry

Saxifragaceae

- Heuchera americana* L. Alumroot
Tiarella cordifolia L. Foamflower

Scrophulariaceae

- Aureolaria flava* (L.) Farw. * Smooth Yellow Foxglove
A. virginica (L.) Pennell Downy Yellow Foxglove
Mimulus alatus Ait. Winged Monkey Flower
M. ringens L. Common Monkey Flower
Pedicularis canadensis L. Wood Betony
Penstemon canescens (Britt.) Britt. Gray Beardtongue
P. digitalis Nutt. ex. Sims Foxglove Beardtongue
Verbascum phlomoides L. * Claspingleaved Mullein
V. thapsus L. Great Mullein
Veronica officinalis L. Common Speedwell

Solanaceae

- Physalis pubescens* L. * Downy Ground-cherry
Solanum carolinense L. Horse Nettle
S. ptychanthum Dunal Eastern Black Nightshade

Verbenaceae

- Verbena urticifolia* L. White Vervain

Violaceae

- Violet bicolor* Pursh * Wild Pansy
V. blanda Willd. Sweet White Violet
V. cucullata Ait. Marsh Blue Violet
V. macloskeyi Lloyd ssp. *pallens* (Banks ex DC.) M. S. Northern White Violet
 Baker * Smooth Yellow Violet
V. pubescens Ait. * Long-spurred Violet
V. rostrata Pursh Roundleaf Violet
V. rotundifolia Michx. Common Blue Violet
V. sororia Wild. Striped Violet
V. striata Ait. Three-lobed Violet
V. triloba Schwein Palmate-leaved Violet
V. x palmata L.
 Hybrid violet

LILIOPSIDA**Agavaceae**

- Yucca filamentosa* L. Adam's Needle

Alismataceae

- Alisma subcordatum* Raf. Common Water Plantain
Sagittaria latifolia Willd. * Duck-potato, Wapato

Araceae

- Arisaema dracontium* (L.) Schott * Green Dragon
A. triphyllum (L.) Schott Jack-in-the-pulpit

Commelinaceae

- Commelina communis* L. * Asiatic Day-flower
Tradescantia virginiana L. Virginia Spiderwort

Dioscoreaceae

- Dioscorea quaternata* (Walt.) J. F. Gmel.

- Four-leaved Wild Yam
 Wild Yam

- D. villosa* L. *

Iridaceae

- Iris cristata* Ait. * Dwarf Crested Iris
I. cristata Ait. (white flowered) White Dwarf Crested Iris
Sisyrinchium angustifolium P. Mill. Blue-eyed Grass

Liliaceae

- Clintonia umbellulata* (Michx.) Morong* White Clintonia
Erythronium americanum Ker. * Yellow Trout Lily
Hemerocallis fulva (L.) L. * Orange Day Lily
Hypoxis hirsuta (L.) Coville * Yellow Stargrass
Maianthemum racemosum (L.) Link * False Solomon's Seal
Medeola virginiana L. * Indian Cucumber Root
Polygonatum biflorum (Walt.) Ell. King Solomon's Seal
Prosartes lanuginosa (Michx.) D. Don * Yellow Fairybells
Trillium erectum L. * Red Trillium
T. erectum L. var. *album* (Michx.) Pursh Wake Robin
T. grandiflorum (Michx.) Salisb. * Large-flowered Trillium
T. sulcatum Patrick Southern Red Trillium
Uvularia grandiflora Sm. Large-flowered Bellwort
U. perfoliata L. Mealy Bellwort

Orchidaceae

- Aplectrum hyemale* (Muhl. ex Willd.) Torr. * Puttyroot
Corallorhiza odontorhiza (Willd.) Nutt. Autumn coralroot
Cypripedium acaule Ait. Pink Lady's Slipper
C. parviflorum Salisb. var. *pubescens* (Willd.) Knight * Large Yellow Lady's Slipper
Galearis spectabilis (L.) Raf. Showy Orchis
Goodyera pubescens (Willd.) R. Br. ex Ait. f. * Downy Rattlesnake Plantain
Hexalectris spicata (Walt.) Barnh Crested Coralroot
Isotria verticillata Raf. Whorled Pogonia
Liparis liliifolia (L.) L.C. Rich. ex Ker-Gawl. Lily-leaved Twayblade
L. loeselii (L.) L.C. Rich. * Loesel's Twayblade
Platanthera clavellata (Michx.) Luer Small Green Wood Orchid
P. flava (L.) Lindl. * Pale Green Orchid
Spiranthes cernua (L.) Richard* Nodding Ladies' Tresses
S. lacera (Raf.) var. *gracilis* (Bigelow) Luer * Slender Ladies' Tresses
S. lacera (Raf.) Raf. var. *lacera* * Northern Ladies' Tresses
S. tuberosa Raf. * Little Ladies' Tresses
S. vernalis Engelm. & Gray* Spring Ladies' Tresses
Tipularia discolor (Pursh) Nutt. * Crane-fly Orchid

Smilacaceae

- Smilax herbacea* L. * Carrion Flower

POLYPODIOPHYTA**Hymenophyllaceae**

- Trichomanes boschianum* Sturm Filmy Fern