

FLORA OF LOWDEN-MILLER STATE FOREST, OGLE COUNTY, ILLINOIS

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Lowden-Miller State Forest
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Lowden-Miller State Forest is made-up of 2,225 acres located in Ogle County in the Oregon Section of the Rock River Hill Country Division of Illinois. This section of the natural division is distinguished by outcrops of St. Peters sandstone. The weathered sandstone has left very rough terrain and poor soils allowing large tracks of land to remain undeveloped. The vast majority of this forest is native upland and river terrace forest with some old fields, and many planted plantations of pines, and *Liriodendron tulipifera* (Tulip tree).

During the 1994 inventory 556, species of vascular plants (table 1, p. 4), 98 species of bryophytes (table 2, p. 22), and 63 species of lichens (table 3, p. 26) were documented. (The vascular plants found in the area are 18%, the bryophytes are 19%, and the lichens are 12% of the total species reported from Illinois for each of their respected categories.)

The main purpose of this inventory was to locate state endangered and threatened species for inclusion in the area's management plan. Six endangered species, five threatened species, and one species of special concern (table 4, p. 27) were located in this inventory. *Trientalis borealis* (Star flower) (Map 10) and *Filipendula rubra* (Queen-of-the-prairie) (Map 8) are state threatened species previously found in this area. A new population of *Trientalis borealis* was located. *Filipendula rubra* has been established here from an area in Lee County near Amboy.

The remaining three threatened species were previously unreported for this area. Three populations totaling over fifty plants of *Aster furcatus* (Forked aster) were at the base of a north facing river bluff (Map 11). A dozen plants of *Besseyia bullii* (Kittentails) were found at one location (Map 2). Over a hundred plants of *Oryzopsis racemosa* (Rice grass) were found at a single location (Map 9). Though these last two species were each found in one location, suitable habitat for the species can be found throughout this state forest.

All the endangered species found are newly reported for this area. Several *Amelanchier sanguinea* (Shadbush) were found at three sites in the same general area on a high rocky river bank (Map 1). An unknown number of *Carex echinata* (Sedge) were located in two seeps at the north end of Lowden-Miller State Forest (Map 3). Seven plants of *Cypripedium acaule* (Moccasin flower) were located in the forested end of one seep (Map 4). One plant was in bloom and six were not. Many plants of *Dichanthelium boreale* (Northern panic grass) were at the edge of a forest pond and a seep just to the east of this pond (Map 5). This is the first time in Illinois *Dichanthelium boreale* was located outside the Lake Michigan Lake Plain. A few dozen plants of *Equisetum pratense* (Meadow horsetail) were at the edge of a seep and in the forest around it (Map 6). Hundreds of plants of *Equisetum sylvaticum* (Horsetail) were located in three seeps (Map 7).

Two state endangered species, *Drosera rotundifolia* (Round-leaved sundew) and *Luzula acuminata* (Hairy woodrush), and one state threatened species, *Juniperus communis* var. *depressa* (Ground juniper), previously reported from Lowden-Miller were not relocated. The

spring drought of 1994 may have effected the growth of *Luzula acuminata* and *Drosera rotundifolia*, making these species nearly impossible to locate. The evergreen *Juniperus communis* var. *depressa* would be easier to distinguish in winter or early spring. With the weather being unpredictable extending the inventory over two or more years would give a more accurate account of the area's state endangered and threatened species.

Of the 556 species of vascular plants found during this study, 87 of these had not been previously reported from Ogle County according to the Illinois Natural History Survey database. Included in this total are 100 species naturalized to this region.

Little is known about the bryophytes of Illinois. Any statements made at this time about their rarity in Illinois would be very subjective. Of the 98 species of bryophytes, 82 belong to Musci (Mosses), 15 are Hepaticae (Liverworts), and one is an Anthocerotae (Hornworts). The 98 species of bryophytes make this area one of the riches' bryophyte floras in northern Illinois. The most common bryophytes in this state forest a moss *Mnium cupidatum*, followed by a liverwort *Lophocolea heterophylla*. The next most frequently encountered moss is *Endodon seductris*, followed by *Platygyrium repens* which is found on almost every living or fallen tree. If the identifications are confirmed, the following five species will be newly reported for the state *Amblystegium trichopodium*, *Cirriphyllum piliferium*, *Fossombronina wondraczekii*, *Haplocladium microphyllum*, and *Jungermannia lanceolata*. *Atrichum crispum* is likely the rarest moss located. It is a northern species that is uncommon throughout its North American range.

The survey located 63 species of lichens in Lowden-Miller. 14 of these had not previously been reported from Ogle County. If the identifications of these 14 species are confirmed, the total number of lichen species reported from Ogle County is 151.

This area not only has many state endangered and threatened species, but has some high quality forest communities. Some of the highest quality forest in the Lowden-Miller is located on a north facing river bluff and at the top of sandstone cliffs overlooking the river (Map 13).

Much of the forest on the south-facing ravine slopes, ridge tops, cliff tops and remnant hill prairies are in need of fire management. These areas were likely more open at the time of settlement and are still recognizable by the *Carex pensylvanica* covering the ground and prairie plant remnants. Before carrying out any management plan, the original Public Land Survey Notes should be used to map the presettlement vegetation.

This area could prove of great value for future research with the records that have been kept in the past. The area was divided into compartments of various sizes. The dominant trees of each of these compartments were mapped in the 1940's. Detailed records have been kept for decades of what kind and how much woody vegetation was removed from these compartments. These detailed records were kept as the result of Governor Lowden asking the University of Illinois at Urbana to set up a Forestry Research Station.

The Department of Conservation has copies of the maps and vegetation removal information from the late 1970's and 1980,s. Howard Fox, a forester for Sinnissippi Forest (the original name for Lowden-Miller) kept these records from the 1940's and though the 1980's. He

still manages a forest just to the east of Lowden-Miller and has the compartment records for this area from 1940's to the present. If these early records still exist for Lowden-Miller, obtaining these would be of value for future research and management. This past work would make a good foundation for research not only for species of economic value, but also for understanding the development of all the forest communities' components.

Some interesting research was started by Howard Fox in 1973 on a 20-acre block of forest (Map 13) to use silviculture to produce virgin timber conditions. Records of this work can be found in the Department of Forestry Research Report No. 76-2, 1976, by Howard W. Fox and David M. Stenger, *Silvicultural Management Used to Develop Simulated Virgin Timber Conditions*. It would be of value to set up some sampling plots and continue his efforts. In the 1950 R. Lorenz and Howard Fox also built exclosures to study the effects of deer browsing. This information could help supplement the same work that is being carried out today.

Table 1: Tracheophyta (Vascular Plants) 556 species

Latin Name	Common Name	UF	RTF	SAV	C	P	S	F
<i>Abutilon theophrasti</i> *	Velvetleaf							X
<i>Acalypha rhomboidea</i>	Three-seeded mercury		X				X	
<i>Acer negundo</i>	Box elder		X					X
<i>Acer nigrum</i> +	Black maple	X						X
<i>Acer saccharinum</i>	Silver maple		X				X	
<i>Acer saccharum</i>	Sugar maple	X	X					
<i>Achillea millefolium</i> *	Yarrow					X		X
<i>Actaea pachypoda</i>	White baneberry	X	X					
<i>Actaea rubra</i>	Red baneberry	X						
<i>Actinomeris alternifolia</i> +	Wingstem		X					
<i>Adiantum pedatum</i>	Maidenhair fern	X						
<i>Agastache nepetoides</i>	Yellow giant hyssop	X	X					
<i>Agastache scrophulariifolia</i>	Purple giant hyssop	X	X					
<i>Agrimonia gryposepala</i>	Tall agrimony	X	X					
<i>Agrimonia parviflora</i> +	Swamp agrimony						X	
<i>Agrimonia pubescens</i>	Soft agrimony	X	X					
<i>Agropyron repens</i> *	Quack grass							X
<i>Agrostis alba</i> *	Red top							X
<i>Agrostis hyemalis</i>	Winter bent grass	X		X	X			
<i>Agrostis scabra</i>	Tickle grass			X	X			
<i>Alisma plantago aquatica parviflorum</i>	Small-flowered water plantain						X	
<i>Alliaria petiolata</i> **	Garlic mustard	X	X	X	X			X
<i>Alnus glutinosa</i> **	Black alder						X	
<i>Ambrosia artemisiifolia</i>	Common ragweed	X				X		X
<i>Ambrosia psilostachya</i>	Western ragweed					X		X
<i>Ambrosia trifida</i>	Giant ragweed	X						X
<i>Amelanchier humilis</i>	Low shadbush		X					
<i>Amelanchier laevis</i>	Shadbush	X		X	X			
<i>Amelanchier sanguinea</i> <<<<+	Shadbush		X					

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Latin Name	Common Name	UF	RTF	SAV	C	P	S	F
<i>Amorpha canescens</i>	Lead plant					X		
<i>Amorpha fruticosa</i>	Indigo bush		X					
<i>Amphicarpaea bracteata</i>	Hog peanut	X	X	X				
<i>Amphicarpaea bracteata</i> var <i>comosa</i> +	Hog peanut	X	X	X				
<i>Andropogon gerardii</i>	Turkeyfoot					X		
<i>Androsace occidentalis</i>	Rock jasmine							X
<i>Anemone quinquefolia</i>	Wood anemone	X	X					
<i>Anemone virginiana</i>	Tall anemone	X						
<i>Angelica atropurpurea</i>	Angelica						X	
<i>Antennaria plantaginifolia</i>	Plantainleaf pussytoes	X		X		X		
<i>Apios americana</i>	Groundnut						X	
<i>Apocynum androsaemifolium</i>	Spreading dogbane	X		X				
<i>Aquilegia canadensis</i>	Columbine	X	X	X	X			
<i>Arabidopsis thaliana</i> *+	Mouse-eared cress							X
<i>Arabis glabra</i> +	Tower mustard							X
<i>Arabis hirsuta</i> var <i>adpressipilis</i> +	Hairy rock cress	X						
<i>Arabis shortii</i> +	Toothed cress	X	X	X				
<i>Aralia nudicaulis</i>	Wild sarsaparilla	X		X				
<i>Aralia racemosa</i>	American spikenard	X						
<i>Arctium minus</i> *	Smaller burdock							X
<i>Arenaria serpyllifolia</i> *+	Thyme-leaved sandwort	X		X	X			
<i>Arisaema triphyllum</i>	Jack-in-the-pulpit	X	X					
<i>Aristida basiramea</i>	Forked-tip three-awn grass							X
<i>Aristida oligantha</i> +	Wire grass							X
<i>Aronia melanocarpa</i>	Black chokecherry				X		X	
<i>Artemisia biennis</i> *	Biennial wormwood							
<i>Asarum canadense reflexum</i>	Wild ginger	X	X					
<i>Asclepias exaltata</i>	Poke milkweed	X						
<i>Asclepias incarnata</i>	Swamp milkweed						X	
<i>Asclepias quadrifolia</i> +	Whorled milkweed	X						
<i>Asclepias syriaca</i>	Common milkweed	X				X		X
<i>Asclepias verticillata</i>	Whorled milkweed							X

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<i>Asparagus officinalis</i> *	Garden asparagus							X
<i>Asplenium platyneuron</i>	Ebony spleenwort	X		X				
<i>Aster drummondii</i>	Drummond aster	X	X					
<i>Aster dumosus</i> +	Rice button aster	X	X					
<i>Aster ericoides</i>	Wreath aster	X	X	X		X	X	X
<i>Aster furcatus</i> <<	Forked aster		X					
<i>Aster lateriflorus</i>	White woodland aster	X		X				
<i>Aster linariifolius</i>	Stiff-leaved aster			X		X		
<i>Aster ontarionis</i>	Ontario aster		X				X	
<i>Aster puniceus firmus</i>	Swamp aster						X	
<i>Aster shortii</i>	Short's aster	X	X					
<i>Aster simplex interior</i>	Marsh aster						X	
<i>Aster umbellatus</i>	Flat-top aster						X	
<i>Athyrium angustum</i>	Lady fern	X	X					
<i>Baptisia leucantha</i>	White wild indigo					X		
<i>Berberis thunbergii</i> *	Japanese barberry	X	X	X				
<i>Besseyia bullii</i> <<	Kitten tails			X				
<i>Bidens cernus</i>	Nodding bur marigold		X				X	
<i>Bidens frondosa</i>	Sticktight		X				X	
<i>Bidens vulgala</i>	Tall baggar-ticks		X				X	
<i>Blephilia hirsuta</i>	Pagoda plant		X					
<i>Boehmeria cylindrica</i> +	False nettle						X	
<i>Botrychium dissectum</i>	Cut-leaved grape fern	X						
<i>Botrychium dissectum var obliquum</i>	Bronze fern	X	X					
<i>Botrychium virginianum</i>	Rattlesnake fern	X	X					
<i>Bouteloua curtipendula</i>	Tall gramma					X		
<i>Brachyelytrum erectum</i> +	Long-awned wood grass	X						
<i>Bromus inermis</i> *	Smooth brome					X		X
<i>Bromus japonicus</i> *+	Japanese chess							X
<i>Bromus purgans</i> +	Ear-leaved brome		X					
<i>Bromus tectorum</i> *	Hairy chess							X
<i>Cacalia atriplicifolia</i>	Pale indian plantain	X	X					

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<i>Cacalia suaveolens</i>	Sweet indian plantain						X	
<i>Calamagrostis canadensis</i>	Bluejoint grass						X	
<i>Caltha palustris</i>	Marsh marigold						X	
<i>Campanula americana</i>	American bellflower	X	X	X	X			
<i>Campanula aparinoides</i>	Marsh bellflower						X	
<i>Campanula rotundifolia</i>	Bellflower			X	X			
<i>Cannabis sativa*</i>	Hemp							X
<i>Capsella bursa-pastoris*</i>	Shepherd's-purse							X
<i>Cardamine bulbosa</i>	Spring cress						X	
<i>Cardamine pensylvanica</i>	Bitter cress				X		X	
<i>Carex amphibola+</i>	Gray sedge						X	
<i>Carex blanda</i>	Woodland sedge	X	X	X				
<i>Carex buxbaumii</i>	Buxbaum sedge						X	
<i>Carex cephalophora</i>	Sedge	X						
<i>Carex conjuncta+</i>	Sedge		X				X	
<i>Carex convoluta</i>	Sedge	X						
<i>Carex echinata <<<+</i>	Sedge						X	
<i>Carex emoryi</i>	Emory sedge						X	
<i>Carex festucacea</i>	Sedge	X				X		X
<i>Carex grisea</i>	Sedge	X	X	X				
<i>Carex hirtifolia</i>	Hairy sedge	X						
<i>Carex lanuginosa</i>	Wooly sedge						X	
<i>Carex lasiocarpa</i>	Sedge						X	
<i>Carex leptalea+</i>	Bristle stalked sedge						X	
<i>Carex lupulina</i>	Sedge						X	
<i>Carex muhlenbergii</i>	Sedge					X		X
<i>Carex pensylvanica</i>	Pennsylvania sedge	X	X	X				
<i>Carex projecta+</i>	Sedge						X	
<i>Carex rosea</i>	Sedge	X						
<i>Carex scoparia</i>	Broom sedge						X	
<i>Carex sparganioides+</i>	None	X	X					
<i>Carex sprengei+</i>	Sprengel sedge		X					
<i>Carex stipata</i>	Prickly sedge						X	

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<i>Carex stricta</i>	Tussock sedge						X	
<i>Carex substricta</i> +	Sedge						X	
<i>Carex swanii</i> +	Savanna sedge	X		X				
<i>Carex tenera</i>	Sedge						X	
<i>Carex tribuloides</i> +	Sedge						X	
<i>Carex trichocarpa</i> +	Sedge							X
<i>Carya cordiformis</i>	Yellowbud hickory	X	X					
<i>Carya ovata</i>	Shellbark hickory	X	X					X
<i>Catalpa speciosa</i> *+	Western catalpa		X					
<i>Caulophyllum thalictroides</i>	Blue cohosh	X	X					
<i>Ceanothus americanus</i>	New jersey tea					X		
<i>Celastrus scandens</i>	Climbing bittersweet	X	X	X				
<i>Celtis occidentalis</i>	Hackberry	X	X					X
<i>Cenchrus longispinus</i> +	Sandbur							X
<i>Cephalanthus occidentalis</i>	Buttonbush		X				X	
<i>Chaerophyllum procumbens</i>	Wild chervil	X	X	X				
<i>Chenopodium album</i>	Lamb's quarter	X	X	X				X
<i>Chionanthus virginicus</i> *+	Fringe-tree		X					
<i>Cicuta maculata</i>	Water hemlock						X	
<i>Cinna arundinacea</i>	Stoutwood reed	X	X					
<i>Circaea lutetiana</i>	Enchanter's nightshade	X	X	X	X		X	
<i>Cirsium discolor</i> *	Pasture thistle		X					X
<i>Cirsium vulgare</i> *	Bull thistle	X						X
<i>Claytonia virginica</i>	Spring beauty	X						
<i>Comandra umbellata</i>	False toad-flax			X		X		
<i>Convallaria majalis</i> *+	Lily of the valley		X					
<i>Conyza canadensis</i>	Mule tail	X				X		X
<i>Coreopsis tripteris</i>	Tall tickseed					X		
<i>Cornus drummondii</i>	Rough-leaved dogwood	X						
<i>Cornus obliqua</i>	Silky dogwood		X				X	
<i>Cornus racemosa</i>	Gray dogwood	X	X	X			X	X
<i>Coronilla varia</i> *+	Crown vetch							X
<i>Corylus americana</i>	Hazelnut	X	X	X	X		X	

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<i>Crataegus crus-galli</i> +	Cock-spur thorn	X						
<i>Crataegus mollis</i>	Red haw	X	X			X		X
<i>Crataegus succulenta</i> +	Hawthorn	X						
<i>Cryptotaenia canadensis</i>	Honewort	X	X					
<i>Cuscuta coryli</i> +	Dodder						X	
<i>Cuscuta gronovii</i> +	Dodder		X					
<i>Cyperus filiculmis</i>	Fern flatsedge							X
<i>Cyperus ferruginescens</i> +	Sedge						X	
<i>Cyperus strigosus</i>	Sedge						X	
<i>Cypripedium acaule</i> <<<	Pink lady's-slipper						X	
<i>Cypripedium pubescens</i>	Yellow lady-slipper orchid	X						
<i>Cystopteris bulbifera</i>	Bladder fern	X						
<i>Cystopteris protrusa</i>	Fragile fern	X						
<i>Dactylis glomerata</i> *	Orchard grass	X						X
<i>Danthonia spicata</i>	Poverty oat grass			X	X			
<i>Daucus carota</i> *	Queen anne's lace	X						X
<i>Desmodium cuspidatum</i> var <i>longifolium</i> +	Tick trefoil	X		X				
<i>Desmodium glutinosum</i>	Pointed tick trefoil	X	X	X				
<i>Desmodium nudiflorum</i> +	Bare-stemmed tick trefoil	X	X	X				
<i>Desmodium obtusum</i> +	Stiff tick trefoil	X						
<i>Desmodium sessilifolium</i>	Sessile-leaved tick trefoil	X						
<i>Diarrhena americana</i> +	Beak grass	X	X					
<i>Dicentra cucullaria</i>	Dutchman's-breeches	X	X					
<i>Dichanthelium acuminatum</i> var <i>fasciculatum</i>	Panic grass	X		X	X		X	X
<i>Dichanthelium boreale</i> <<<+	Northern panic grass						X	
<i>Dichanthelium depauperatum</i>	Starved panic grass							X
<i>Dichanthelium latifolium</i>	Broad-leaf witchgrass	X						
<i>Dichanthelium oligosanthes</i> var <i>scribnerianum</i>	Panic grass	X		X		X		
<i>Dichanthelium villosissimum</i> var <i>pseudopubescens</i>	Panic grass							
<i>Dichanthelium wilcoxianum</i> +								
<i>Diervilla lonicera</i>	Bush honeysuckle	X			X			

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<i>Digitaria ischaemum</i> *	Smooth crab grass			X	X			X
<i>Digitaria sanguinalis</i> *	Hairy crabgrass							X
<i>Dioscorea villosa</i>	Wild Yam		X					
<i>Dodecatheon meadia</i>	Shooting star			X				
<i>Draba reptans</i>	Whitlow grass							X
<i>Dryopteris carthusiana</i>	Spinulose woodfern	X	X	X	X		X	
<i>Dryopteris cristata</i>	Crested shield fern						X	
<i>Dryopteris intermedia</i>	Intermediate fern	X	X		X			
<i>Echinochloa crus-galli</i> **	Black millet	X					X	X
<i>Echinocystis lobata</i>	Wild cucumber		X				X	
<i>Eclipta alba</i> **	Yerba de tajo						X	
<i>Eleocharis elliptica</i> +	Spike rush						X	
<i>Eleocharis obtusa</i>	Spike rush						X	
<i>Ellisia nyctelea</i>	Waterpod	X	X	X				
<i>Elymus canadensis</i>	Prairie wild rye	X	X					
<i>Elymus hystrix</i>	Bottlebrush grass	X	X					
<i>Elymus villosus</i>	Slender wild rye	X	X					
<i>Elymus virginicus</i>	Virginia wild rye	X	X				X	X
<i>Epilobium coloratum</i>	Cinnamon willow herb							X
<i>Epilobium glandulosum adenocaulon</i>	Northern willow herb						X	
<i>Equisetum arvense</i>	Field horsetail	X	X				X	X
<i>Equisetum fluviatile</i>	Water horsetail						X	
<i>Equisetum hyemale</i>	Rough Horsetail		X					
<i>Equisetum pratense</i> <<<	Meadow horsetail	X						
<i>Equisetum sylvaticum</i> <<<	Wood horsetail						X	
<i>Eragrostis cilianensis</i> **	Stinking love grass							X
<i>Eragrostis hypnoides</i>	Creeping love grass						X	
<i>Eragrostis spectabilis</i>	Tumble grass	X						X
<i>Erechtites hieracifolia</i>	Fireweed			X	X		X	
<i>Erigeron annuus</i>	Whitetop fleabane	X	X					X
<i>Erigeron philadelphicus</i>	Philadelphia fleabane		X					
<i>Erigeron pulchellus</i>	Robin's plantain	X	X	X				

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Latin Name	Common Name	UF	RTF	SAV	C	P	S	F
<i>Erigeron strigosus</i>	Whitetop fleabane	X	X					X
<i>Erysimum cheiranthoides*</i>	Wormseed mustard							X
<i>Erythronium albidum</i>	White trout lily	X	X					
<i>Euonymus alatus**</i>	Winged euonymus	X						
<i>Euonymus europaeus**</i>	European spindle-tree		X					
<i>Eupatorium maculatum</i>	Spotted joe pye weed						X	
<i>Eupatorium perfoliatum</i>	Boneset						X	
<i>Eupatorium purpureum</i>	Sweet joe-pye weed	X	X	X				
<i>Eupatorium rugosum</i>	White snakeroot	X	X	X	X			X
<i>Euphorbia corollata</i>	Flowering spurge	X		X		X		X
<i>Euphorbia esula**</i>	Leafy spurge							X
<i>Euthamia graminifolia</i>	Grass-leaved goldenrod						X	
<i>Euthamia tenuifolia</i>	Grass-leaved goldenrod						X	
<i>Festuca obtusa</i>	Nodding fescue	X	X	X				
<i>Filipendula rubra <<</i>	Queen-of-the-prairie						X	
<i>Fragaria americana</i>	Hillside strawberry	X						
<i>Fragaria virginiana</i>	Wild strawberry	X	X	X	X	X	X	X
<i>Fraxinus americana</i>	White ash	X					X	X
<i>Fraxinus pennsylvanica</i>	Red ash	X	X					
<i>Fraxinus quadrangulata</i>	Square-stemmed ash	X						
<i>Galcaris spectabilis</i>	Showy orchis	X						
<i>Galinsoga quadriradiata**</i>	Peruvian daisy							X
<i>Galium aparine</i>	Goosegrass	X	X	X	X		X	X
<i>Galium circaezans</i>	Wild licorice	X		X				
<i>Galium concinnum</i>	Shining bedstraw							
<i>Galium tinctorium</i>	Stiff bedstraw							
<i>Galium triflorum</i>	Sweet-scented bedstraw	X	X	X			X	
<i>Gaura biennis</i>	Biennial gaura	X						X
<i>Gaylussacia baccata</i>	Black huckleberry			X	X		X	
<i>Geranium maculatum</i>	Wild geranium	X	X	X				
<i>Geum canadense</i>	White avens	X	X	X			X	X
<i>Geum vernum+</i>	Spring avens	X						

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<i>Glechoma hederacea</i> var <i>micrantha</i> *	Ground ivy	X	X					
<i>Gleditsia triacanthos</i>	Honey locust		X					X
<i>Gleditsia triacanthos</i> var <i>inermis</i>			X					X
<i>Glyceria septentrionalis</i> +	Manna grass						X	
<i>Glyceria striata</i>	Fowl manna grass	X	X				X	
<i>Gnaphalium obtusifolium</i>	Sweet everlasting					X		X
<i>Goodyera pubescens</i>	Rattlesnake plantain	X		X				
<i>Gymnocladus dioica</i>	Kentucky coffeetree		X					
<i>Hackelia virginiana</i>	Stickseed	X	X	X			X	X
<i>Hamamelis virginiana</i>	Witch-hazel	X		X	X		X	
<i>Humulus lupulus</i>	Common hop							X
<i>Hedeoma hispidum</i>	Rough pennyroyal					X		X
<i>Helenium autumnale</i>	Sneezeweed		X		X			
<i>Helianthemum bicknellii</i>	Frostweed	X		X				X
<i>Helianthus divaricatus</i>	Woodland sunflower	X						
<i>Helianthus grosseserratus</i>	Sawtooth sunflower					X		
<i>Helianthus strumosus</i>	Swollen sunflower	X		X				X
<i>Helianthus tuberosus</i> +	Jerusalem artichoke							X
<i>Hemerocallis fulva</i> *+	Orange day lily		X					
<i>Hepatica nobilis</i> var <i>acuta</i>	Sharp-lobed liverleaf	X						
<i>Hepatica nobilis</i> var <i>obtusa</i> +	Round-leaved liverleaf	X	X	X	X			
<i>Hesperis matronalis</i> *+	Dame's rocket	X	X	X				X
<i>Heuchera richardsonii</i>	Alumroot			X	X			
<i>Hieracium scabrum</i>	Hairy hawkweed	X		X				
<i>Hydrophyllum appendiculatum</i>	Great waterleaf	X	X					
<i>Hydrophyllum virginianum</i>	Virginia waterleaf	X	X					
<i>Hypericum canadense</i>	Canadian st. johns-wort				X			
<i>Hypericum perforatum</i> *	Common st. johns-wort	X						X
<i>Hypericum punctatum</i>	Spotted st. johns-wort	X					X	
<i>Hypoxis hirsuta</i>	Yellow stargrass			X				
<i>Impatiens capensis</i>	Spotted touch-me-not		X		X		X	
<i>Impatiens pallida</i>	Pale touch-me-not	X	X				X	

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<i>Iris shrevei</i>	Wild blue						X	
<i>Juncus canadensis</i>	Canadian rush						X	
<i>Juncus effusus</i> var <i>solutus</i>	Common rush						X	
<i>Juncus tenuis</i>	Poverty rush	X	X				X	X
<i>Juniperus virginiana</i>	Eastern red cedar	X		X	X			X
<i>Krigia biflora</i>	False dandelion			X				
<i>Krigia virginica</i>	Dwarf dandelion					X		X
<i>Lactuca biennis</i> +	Wild lettuce	X						
<i>Lactuca canadensis</i>	Tall blue lettuce	X						
<i>Lactuca floridana</i>	Woodland lettuce	X	X	X	X			X
<i>Laportea canadensis</i>	Wood nettle	X	X		X		X	
<i>Leersia oryzoides</i>	Rice cutgrass						X	
<i>Leersia virginica</i> +	White grass	X	X	X			X	
<i>Lemna minor</i>	Small duckweed						X	
<i>Leonurus cardiaca</i> *	Motherwort	X	X	X	X			X
<i>Lepidium virginicum</i>	Poor-man's pepper							X
<i>Leptoloma cognatum</i>	Fall witch grass							X
<i>Lespedeza capitata</i>	Round-headed clover					X		X
<i>Liatris aspera</i>	Rough blazing star			X		X		X
<i>Lilium michiganense</i>	Michigan lily		X				X	
<i>Linaria canadensis</i>	Blue toadflax					X		X
<i>Linaria vulgaris</i> *	Butter & eggs							X
<i>Liparis liliifolia</i>	Large flowered twayblade	X						
<i>Liparis loeselii</i>	Loesel twayblade	X						
<i>Liriodendron tulipifera</i> *+	Yellow-poplar	X	X					
<i>Lithospermum carolinense</i>	Hairy puccoon					X		X
<i>Lobelia inflata</i>	Indian tobacco	X	X	X				
<i>Lobelia siphilitica</i>	Blue cardinal-flower	X					X	
<i>Lonicera maackii</i> *+	Amur honeysuckle	X	X					X
<i>Lonicera prolifera</i>	Grape Honeysuckle		X					
<i>Lonicera x bella</i> *	Honeysuckle	X	X	X			X	
<i>Lonicera xylosteum</i> *+	European fly honeysuckle	X						
<i>Lotus corniculatus</i> *+	Birdsfoot-trefoil							X

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<i>Ludwigia alternifolia</i>	Seedbox						X	
<i>Ludwigia polycarpa</i>	False loosestrife						X	
<i>Lupinus perennis</i>	Wild lupine	X		X				
<i>Luzula multiflora</i>	Common woodrush	X		X	X			
<i>Lycopodium lucidulum</i>	Shining clubmoss				X			
<i>Lycopus americanus</i>	Common water horehound						X	
<i>Lycopus uniflorus</i>	Nothern bugle weed						X	
<i>Lycopus rubellus</i>	Stalked water horehound						X	
<i>Lysimachia ciliata</i>	Fringed loosestrife						X	
<i>Lysimachia nummularia*</i>	Moneywort		X				X	
<i>Maclura pomifera*</i>	Osage orange	X						X
<i>Maianthemum canadense</i> var <i>interius</i>	False lily of the valley	X		X	X			
<i>Malus ioensis</i>	Iowa crab apple	X	X	X			X	X
<i>Malus pumila*+</i>	Apple	X						
<i>Melilotus alba*</i>	White sweet clover	X						X
<i>Melilotus officinalis*</i>	Yellow sweet clover	X						X
<i>Menispermum canadense</i>	Moonseed	X	X					
<i>Mentha arvensis villosa</i>	Wild mint						X	
<i>Mertensia virginica</i>	Virginia bluebells	X						
<i>Mimulus ringens</i>	Monkey-flower						X	
<i>Mirabilis nyctaginea*</i>	Wild four-o'clock							X
<i>Moehringia lateriflora</i>	Bluntleaf sandwort	X		X	X			
<i>Mollugo verticillata*</i>	Carpetweed							X
<i>Monarda fistulosa</i>	Wild bergamot	X				X		X
<i>Monotropa uniflora</i>	Indian pipe	X						
<i>Morus alba*</i>	White mulberry	X	X		X			
<i>Muhlenbergia frondosa</i>	Wirestem muhly	X	X	X				
<i>Muhlenbergia schreberi</i>	Nimble will	X	X	X				
<i>Myosoton aquaticum*</i>	Giant chickweed		X					X
<i>Napaea dioica</i>	Glade mallow		X					X
<i>Nepeta cataria*</i>	Catnip	X	X					X
<i>Oenothera biennis</i>	Evening primrose	X				X		X

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<i>Oenothera laciniata</i>	Ragged evening primrose					X		X
<i>Oenothera rhombipetala</i>	Sand primrose					X		X
<i>Onoclea sensibilis</i>	Sensitive fern	X	X				X	
<i>Oryzopsis racemosa</i> <<	Black-fruited ricegrass	X						
<i>Osmorhiza claytonii</i>	Sweet cicely	X	X	X	X			
<i>Osmorhiza longistylis</i>	Anise-root	X	X	X	X			
<i>Osmunda cinnamomea</i>	Cinnamon fern						X	
<i>Osmunda claytoniana</i>	Interrupted fern	X			X		X	
<i>Osmunda regalis</i> var <i>spectabilis</i>	Royal fern	X					X	
<i>Ostrya virginiana</i>	Eastern hop hornbeam	X		X				
<i>Oxalis stricta</i>	Yellow wood sorrel	X	X	X	X	X		X
<i>Oxalis violacea</i>	Violet wood sorrel	X		X		X		
<i>Panax quinquefolius</i>	Ginseng	X						
<i>Panicum dichotomiflorum</i>	Knee grass							X
<i>Panicum virgatum</i>	Prairie switchgrass					X		X
<i>Paronychia canadensis</i>	Forked chickweed	X						
<i>Parthenocissus inserta</i>	Virginia creeper	X	X	X	X		X	
<i>Parthenocissus quinquefolia</i>	Virginia creeper	X	X	X	X			
<i>Paspalum bushii</i> +	Hairy bead grass							X
<i>Paspalum ciliatifolium</i>	Hairy lens grass					X		X
<i>Penstemon hirsutus</i>	Hairy beard-tongue					X		X
<i>Penstemon pallidus</i>	Pale beard-tongue			X		X		
<i>Penthorum sedoides</i>	Ditch stonecrop						X	X
<i>Phalaris canariensis</i> *+	Canary grass						X	X
<i>Phleum pratense</i> *	Timothy							X
<i>Phlox divaricata</i>	Blue phlox	X	X	X				
<i>Phryma leptostachya</i>	Lopseed	X	X	X	X			
<i>Physalis heterophylla</i>	Ground cherry							X
<i>Physalis virginiana</i>	Ground cherry							X
<i>Physocarpus opulifolius</i>	Common ninebark		X					
<i>Physostegia virginiana</i>	Obedient plant		X					
<i>Phytolacca americana</i>	Pokeweed	X	X					X
<i>Pilea pumila</i>	Richweed	X	X		X		X	

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<i>Pinus banksiana</i> *	Jack pine	X						
<i>Pinus strobus</i>	White pine	X		X				
<i>Plantago aristata</i>	Bracted plantain					X		X
<i>Plantago rugelii</i> *	Rugel's plantain	X	X					X
<i>Plantago virginica</i>	Dwarf plantain							X
<i>Platanus occidentalis</i>	Sycamore		X					
<i>Poa compressa</i> *	Canadian bluegrass	X		X	X	X		X
<i>Poa pratensis</i> *	Kentucky bluegrass	X		X			X	X
<i>Podophyllum peltatum</i>	Mayapple	X	X					
<i>Polemonium reptans</i>	Jacob's-ladder		X					
<i>Polygala polygama</i>	Purple milkweed					X		X
<i>Polygonum achoreum</i> +	Leathery knotweed							X
<i>Polygonum amphibium</i>	Water smartweed						X	
<i>Polygonum aviculare</i> *+	Knotweed							X
<i>Polygonum coccineum</i> +	Water heartsease						X	
<i>Polygonum hydropiperoides</i>	Wild water pepper	X	X				X	
<i>Polygonum lapathifolium</i>	Pale smartweed	X					X	X
<i>Polygonum pensylvanicum</i> var <i>laevigatum</i>	Common smartweed						X	
<i>Polygonum persicaria</i> *	Lady's thumb	X	X					X
<i>Polygonum punctatum</i>	Red top	X	X				X	
<i>Polygonum sagittatum</i>	Arrowleaf tearthumb						X	
<i>Polygonum scandens</i>	Hedge cornbind	X	X				X	
<i>Polygonum virginianum</i>	Virginia knotweed	X	X	X				
<i>Polypodium virginianum</i>	Common polypody			X	X			
<i>Populus deltoides</i>	Eastern cottonwood		X					X
<i>Populus grandidentata</i>	Large-toothed aspen	X		X				
<i>Populus tremuloides</i>	Quaking aspen	X		X			X	
<i>Potentilla argentea</i> *	Silvery cinquefoil							X
<i>Potentilla norvegica</i> *	Rough cinquefoil	X	X	X	X	X	X	X
<i>Potentilla recta</i> *	Sulfur cinquefoil	X						X
<i>Potentilla simplex</i>	Common cinquefoil	X		X	X	X	X	X
<i>Prenanthes alba</i>	White lettuce	X			X			

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<i>Prunella vulgaris</i> var <i>elongata</i>	Self-heal	X	X				X	X
<i>Prunus americana</i>	Wild plum	X	X					
<i>Prunus pensylvanica</i>	Pin cherry							
<i>Prunus serotina</i>	Wild black cherry	X	X	X	X			X
<i>Prunus virginiana</i>	Common chokecherry	X	X	X	X			
<i>Ptelea trifoliata</i>	Wafer ash		X					
<i>Pteridium aquilinum</i>	Bracken fern	X		X				
<i>Pyrola elliptica</i>	Shinleaf	X		X				
<i>Quercus alba</i>	White oak	X	X	X			X	X
<i>Quercus macrocarpa</i>	Bur oak							X
<i>Quercus rubra</i>	Red oak	X	X					
<i>Quercus velutina</i>	Black oak	X	X	X			X	
<i>Ranunculus abortivus</i>	Small-flowered crowfoot	X	X	X	X		X	
<i>Ranunculus fascicularis</i>	Early buttercup	X	X	X			X	
<i>Ranunculus recurvatus</i>	Rough crowfoot	X	X				X	
<i>Ranunculus sceleratus</i> +	Cursed crowfoot		X				X	
<i>Ratibida pinnata</i>	Yellow coneflower					X		X
<i>Rhamnus cathartica</i> *	Common buckthorn	X	X				X	
<i>Rhus glabra</i>	Smooth sumac	X		X		X		X
<i>Ribes americanum</i>	Wild black current						X	
<i>Ribes missouriense</i>	Missouri gooseberry	X	X	X	X			
<i>Robinia pseudoacacia</i> *	Black locust	X	X					X
<i>Ronippa islandica</i> ssp <i>fernaldiana</i> +	Marsh yellow cress						X	
<i>Rosa arkansana</i> <i>suffulta</i>	Sunshine rose				X	X		
<i>Rosa multiflora</i> *+	Multiflora rose	X	X	X	X		X	X
<i>Rosa palustris</i> +	Swampy rose						X	
<i>Rubus allegheniensis</i>	Common blackberry	X	X	X	X	X		X
<i>Rubus flagellaris</i>	Dewberry	X		X	X		X	X
<i>Rubus hispidus</i>	Swampy dewberry	X					X	
<i>Rubus occidentalis</i>	Blackcap raspberry	X	X	X	X		X	X
<i>Rubus strigosus</i>	Red raspberry	X						
<i>Rudbeckia hirta</i>	Black-eyed susan	X		X		X		X
<i>Rudbeckia laciniata</i>	Wild golden glow		X				X	X

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<i>Rudbeckia triloba</i>	Brown-eyed susan		X					
<i>Rumex acetosella</i> *	Sheep sorrel					X		X
<i>Rumex crispus</i> *	Curly dock							X
<i>Sagittaria latifolia</i>	Common arrowleaf						X	
<i>Salix humilis</i>	Prairie willow					X		
<i>Sambucus canadensis</i>	Elderberry	X	X		X		X	
<i>Sanguinaria canadensis</i>	Bloodroot	X	X	X				
<i>Sanicula canadensis</i>	Canadian black snakeroot	X	X	X				
<i>Sanicula gregaria</i>	Common snakeroot	X	X	X				
<i>Sanicula marilandica</i>	Black snakeroot	X	X	X				
<i>Saponaria officinalis</i> *	Soapwort					X		X
<i>Saxifraga pensylvanica</i>	Swamp saxifrage						X	
<i>Schizachyrium scoparium</i>	Little bluestem					X		X
<i>Scirpus americanus</i>	Bulrush						X	
<i>Scirpus cyperinus</i>	Wool grass						X	
<i>Scrophularia lanceolata</i>	Early figwort	X	X	X	X			
<i>Scrophularia marilandica</i>	Late figwort	X	X					X
<i>Scutellaria lateriflora</i>	Mad-dog skullcap						X	
<i>Scutellaria ovata</i> var <i>versicolor</i>	Heart-leaved skullcap	X	X					
<i>Selaginella rupestris</i>	Sand club moss			X	X			
<i>Senecio plattensis</i>	Prairie ragwort							X
<i>Setaria faberi</i> *	Nodding foxtail							X
<i>Setaria glauca</i> *	Yellow foxtail							X
<i>Setaria viridis</i> *	Green foxtail							X
<i>Sicyos angulatus</i> +	Bur cucumber		X				X	X
<i>Silene antirrhina</i>	Sleepy catchfly					X		X
<i>Silene nivea</i> +	Snow campion						X	
<i>Silene stellata</i>	Starry campion	X		X				
<i>Silphium perfoliatum</i>	Cup plant		X					X
<i>Sisymbrium altissimum</i> *	Tumble mustard							X
<i>Smilacina racemosa</i>	Wild spikenard	X	X	X	X		X	
<i>Smilacina stellata</i>	Starry false solomon seal			X				
<i>Smilax ecirrhata</i>	Upright carrion flower	X	X	X				

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<i>Smilax hispida</i>	Catbrier	X	X	X	X			
<i>Smilax lasioneuron</i>	Greenbrier		X				X	
<i>Solanum carolinense</i>	Horse-nettle							X
<i>Solanum dulcamara*</i>	Bittersweet nightshade				X			
<i>Solanum ptycanthum</i>	Black nightshade				X			X
<i>Solidago canadensis</i>	Canada goldenrod	X	X	X		X	X	X
<i>Solidago flexicaulis</i>	Zigzag goldenrod	X	X	X	X			
<i>Solidago gigantea</i>	Late goldenrod	X		X			X	
<i>Solidago hispida+</i>	Hispid goldenrod			X	X			
<i>Solidago juncea</i>	Early goldenrod							
<i>Solidago nemoralis</i>	Old-field goldenrod			X		X		X
<i>Solidago ulmifolia</i>	Elm-leaved goldenrod	X	X	X				
<i>Sorbaria sorbifolia*+</i>		X						
<i>Sorghastrum nutans</i>	Indian grass					X		X
<i>Spartina pectinata</i>	Cord grass						X	
<i>Sphenopholis obtusata</i>	Prairie wedgescale	X					X	
<i>Spiraea alba</i>	Meadow-sweet						X	
<i>Sporobolus asper</i>	Dropseed					X		X
<i>Sporobolus cryptandrus</i>	Sand dropseed					X		X
<i>Sporobolus heterolepis+</i>	Prairie drop seed					X		
<i>Stachys tenuifolia var hispida</i>	Hairy hedge nettle		X				X	
<i>Staphylea trifolia</i>	Bladdernut		X					
<i>Stellaria media*</i>	Common chickweed	X	X	X	X			X
<i>Stipa spartea</i>	Porcupine grass					X		
<i>Symplocarpus foetidus</i>	Skunk cabbage	X	X				X	
<i>Taraxacum officinale*</i>	Common dandelion	X	X	X	X			X
<i>Tephrosia virginiana</i>	Goat's rue					X		
<i>Teucrium canadense var boreale</i>	Gray germander		X					
<i>Teucrium canadense var virginicum</i>	American germander		X					
<i>Thalictrum dasycarpum</i>	Purple meadow rue							
<i>Thalictrum dioicum</i>	Early meadow rue	X	X	X				
<i>Thalictrum revolutum</i>	Waxy meadow rue							

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Latin Name	Common Name	UF	RTF	SAV	C	P	S	F
<i>Thalictrum thalictroides</i>	Rue anemone	X	X	X	X			
<i>Thaspium trifoliatum</i> var <i>flavum</i>	Purple meadow-parsnip	X						
<i>Thelypteris palustris</i> var <i>pubescens</i>	Marsh fern						X	
<i>Thlaspi arvense</i> *	Field penny cress							X
<i>Thuja occidentalis</i> *	Northern white cedar		X					
<i>Tilia americana</i>	Basswood	X	X					
<i>Toxicodendron radicans</i>	Poison ivy	X	X	X	X			X
<i>Tradescantia ohiensis</i>	Spiderwort	X		X		X		X
<i>Tragopogon dubius</i> *	Sand goat's beard	X						X
<i>Triadenum fraseri</i>	Fraser's St. John's-wort						X	
<i>Tridens flavus</i> *	Tall red top	X						X
<i>Trientalis borealis</i> <<	Northern starflower	X		X				
<i>Trifolium dubium</i> *+	Little hop clover							X
<i>Trifolium pratense</i> *	Red clover							X
<i>Trifolium repens</i> *	White clover							X
<i>Trillium recurvatum</i>	Wake robin	X	X					
<i>Triodanis perfoliata</i>	Venus' looking-glass					X		X
<i>Typha latifolia</i>	Common cattail						X	
<i>Ulmus americana</i>	American elm	X	X					
<i>Ulmus rubra</i>	Slippery elm		X					
<i>Urtica procera</i>	Stinging nettle		X				X	X
<i>Uvularia grandiflora</i>	Yellow bellwort	X		X				
<i>Vaccinium pallidum</i>	Low-bush blueberry	X		X	X			
<i>Verbascum thapsus</i> *	Woolly mullein	X		X	X	X		X
<i>Verbena hastata</i>	Blue vervain		X				X	X
<i>Verbena stricta</i>	Woolly verbena	X				X		X
<i>Verbena urticifolia</i>	White vervain	X	X				X	X
<i>Verbesina alternifolia</i>	Yellow iron weed		X					
<i>Veronica arvensis</i> *	Corn speedwell							X
<i>Veronica peregrina</i>	White speedwell							X
<i>Veronica serpyllifolia</i> *	Thyme-leaved speedwell	X	X					X
<i>Veronica officinalis</i> *+	Common speedwell			X				
<i>Viburnum acerifolium</i> +	Maple-leaved arrowwood	X						

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Latin Name	Common Name	UF	RTF	SAV	C	P	S	F
<i>Viburnum lentago</i>	Nannyberry	X	X					
<i>Viburnum opulus*</i>	European high-bush cranberry	X	X		X			
<i>Viburnum prunifolium</i>	Nannyberry	X	X	X	X			
<i>Viola lanceolata</i>	Lance-leaved violet						X	
<i>Viola macloskeyi</i> ssp <i>pallens</i>	Smooth white violet						X	
<i>Viola pedata</i>	Birdfoot violet			X		X		
<i>Viola pratensis</i>	Common blue violet	X	X				X	
<i>Viola pubescens</i>	Downy yellow violet	X						
<i>Viola pubescens</i> var <i>eriocarpa</i>	Smooth yellow violet	X	X	X				
<i>Viola sororia</i>	Woolly blue violet	X	X	X				
<i>Vitis aestivalis</i>	Summer grape	X		X				
<i>Vitis riparia</i>	Rivervbank grape	X	X	X	X		X	X
<i>Vitis vulpina</i>	Frost grape		X					
<i>Vulpia octoflora</i>	Six-weeks fescue					X		X
<i>Woodsia obtusa</i>	Common woodsia	X			X			
<i>Xanthium strumarium</i>	Cocklebur		X				X	
<i>Zanthoxylum americanum</i>	Prickly ash	X	X	X	X			
<i>Zizia aurea</i>	Golden alexanders	X		X				

Table 2: Musci (mosses) 82 species, Anthocerotae (hornworts) 1 species, Hepaticae (liverworts) 15 species

Latin Name	UF	RTF	PLA	FLR	SAV	C	P	S	F
<i>Amblystegium riparium</i>				S				W,S	
<i>Amblystegium serpens</i> var. <i>juratzkanum</i>								S	
<i>Amblystegium trichopodium</i>								S	
<i>Amblystegium varium</i>		W						S	S
<i>Anomodon attenuatus</i>	R	S,T			S	S			
<i>Anomodon minor</i>		T							
<i>Anomodon rostratus</i>						R			
<i>Atrichum angustatum</i>	S				S	R,S			
<i>Atrichum crispum</i>								S	
<i>Atrichum undulatum</i>			S						
<i>Atrichum undulatum</i> var. <i>altecristatum</i>		S	S					S	
<i>Aulacomnium palustre</i>								S,W	
<i>Barbula unguiculata</i>				S					S
<i>Brachythecium acuminatum</i>	W	S		S					
<i>Brachythecium campestre</i>								S	
<i>Brachythecium oxycladon</i>		W		S		R			S
<i>Brachythecium plumosum</i>								S	
<i>Brachythecium rivulare</i>								S	
<i>Brachythecium rutabulum</i>		W	S	S					
<i>Brachythecium salebrosum</i>	R,S,T,W	S,W		S	S			S	S
<i>Brotherella tenuirostris</i>		W							
<i>Bryoandersonia illecebra</i>			S						
<i>Bryum argenteum</i>									S
<i>Bryum caespiticium</i>									S
<i>Bryum capillare</i>						R,S			S
<i>Bryum lisa</i> var. <i>cuspidatum</i>									S
<i>Callicladium haldanianum</i>	W	W	W			R		S,W	
<i>Calliergon cordifolium</i>								S	
<i>Campylium polygamum</i>								S	
<i>Ceratodon purpureus</i>	S					S,R	S		S

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Substratum. R=Rock. S=Soil. T=Tree. W=Rotten Wood.

Latin Name	UF	RTF	PLA	FLR	SAV	C	P	S	F
<i>Cirriphyllum piliferum</i>		W							
<i>Climacium americanum</i>					S	R			
<i>Climacium dendroides</i>								S	
<i>Dicranella heteromalla</i>			R,S		S	R			S
<i>Dicranum condensatum</i>						S,R			
<i>Dicranum flagellare</i>		W							
<i>Dicranum scoparium</i>	S				R	S,R		T	
<i>Ditrichum pusillum</i>	S					S,R			
<i>Entodon seductris</i>	R,S,T,W	T,W			S	S,R		W	
<i>Eurhynchium hians</i>	S,W			S				W	
<i>Eurhynchium pulchellum</i>	S	W		S				S	
<i>Fissidens bryoides</i>						R			
<i>Fissidens taxifolius</i>	S		S			R		S	
<i>Funaria hygrometrica</i>									S
<i>Hapllocladium microphyllum</i>	W	W		S		S		W	
<i>Hedwigia ciliata</i>	R				R	R,S			
<i>Helodium paludosum</i>								S	
<i>Herzogiella turfacea</i>	S,T								
<i>Hypnum curvifolium</i>				S	R				
<i>Hypnum fertile</i>			W						
<i>Hypnum imponens</i>						R			
<i>Hypnum lindbergii</i>			W					S	
<i>Hypnum lindbergii</i> var. <i>americanum</i>								S	
<i>Isopterygium tenerum</i>		S						T	
<i>Leskea gracilescens</i>	T,W	T			T				T
<i>Leucobryum albidum</i>						R			
<i>Leucobryum glaucum</i>	S				S	S,R			
<i>Mnium affine</i> var. <i>rugicum</i>			S						
<i>Mnium cuspidatum</i>	R,S,T,W	S,W	S,W	S	S	R,S		R,S,W	S
<i>Mnium medium</i>								S	
<i>Mnium punctatum</i>								S	
<i>Mnium stellare</i>						S			

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Latin Name	UF	RTF	PLA	FLR	SAV	C	P	S	F
<i>Orthotrichum pumilum</i>	T				T				
<i>Orthotrichum pusillum</i>	T				T				T
<i>Physcomitrium pyriforme</i>								S	S
<i>Plagiothecium cavifolium</i>			R			R		S	
<i>Platygyrium repens</i>	S,T,W	W			T,R	R			T
<i>Pleurozium schreberi</i>				S					
<i>Pohlia nutans</i>	S		R			S			
<i>Polytrichum commune</i> var. <i>perigoniale</i>	S				S	S			
<i>Polytrichum juniperinum</i>	S					S	S		
<i>Polytrichum piliferum</i>					S	S	S		
<i>Rhodobryum roseum</i>						R			
<i>Rhynchostegium serrulatum</i>			S	S				S	S
<i>Schwetschkeopsis fabronia</i>	T								
<i>Sphagnum capillifolium</i>								S	
<i>Sphagnum palustre</i>								S	
<i>Sphagnum papillosum</i>								S	
<i>Sphagnum subsecundum</i> var. <i>inundatum</i>								S	
<i>Sphagnum subsecundum</i> var. <i>platyphyllum</i>								S	
<i>Sphagnum subsecundum</i> var. <i>rufescens</i>								S	
<i>Tetraphis pellucida</i>			R			R			
<i>Thuidium delicatulum</i>	W		S			R		W	
<i>Timmia megapolitana</i>						S			
<i>Anthoceros laevis</i>						R		S	
<i>Conocephalum conicum</i>						R			
<i>Fossombronina wondraczekii</i>						R			
<i>Frullania eboracensis</i>	T	T			T				T
<i>Frullania inflata</i>	T								
<i>Frullania riparia</i>	T								
<i>Jamesoniella autumnalis</i>						S			
<i>Langemannia lanceolata</i>						R			

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Latin Name	UF	RTF	PLA	FLR	SAV	C	P	S	F
<i>Lophocolea heterophylla</i>	S,T,W	W	R,S,W		S	R,S		W,S	
<i>Mannia fragrans</i>				S					
<i>Marchantia polymorpha</i>						R			
<i>Porella platyphylla</i>					T				
<i>Ptilidium pulcherrimum</i>						R			
<i>Riccia fluitans</i>				S				S	
<i>Riccia sullivantii</i>								S	
<i>Ricciocarpos natans</i>				S				S	

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Table 3: Lichens, 63 species

Latin Name	UF	RTF	SAV	C	P	S	F
Acarospora fuscata				R			
Anisomeridium biforme			T				
Arthonia caesia	T		T				T
Aspicilia caesiocinerea				R			
Buellia dakotensis	T						
Buellia polyspora							T
Buellia punctata	T						
Candelaria concolor	T		T				T
Candelariella efflorescens	T		T				
Candelariella vitellina				R			
Candelariella xanthostigma	T		T				T
Cladina arbuscula			S	S			
Cladina rangiferina			S	S			
Cladina subtenuis	S		S				
Cladonia bacillaris	W		W				
Cladonia caroliniana			R	R			
Cladonia coniocraea	W		W				
Cladonia cristatella					S		
Cladonia cryptochlorophaea			R	R			
Cladonia furcata	S		S				
Cladonia incrassata						W	
Cladonia polycarpoides	S		R	R	S		
Cladonia ramulosa	T,W		W				
Cladonia rei					S		
Cladonia squamosa			R	R			
Cladonia strepsilis			R,S	R,S			
Cladonia uncialis			R	R			
Diploschistes muscorum					S		
Flavoparmelia caperata	T		R,T	R			
Graphis scripta	T		T				

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Latin Name	UF	RTF	SAV	C	P	S	F
<i>Hyperphyscia adglutinata</i>	T						T
<i>Hyperphyscia syncolla</i>							T
<i>Lecanora thysanophora</i>	T						
<i>Lepraria finkii</i>	T		R,I	R			
<i>Lepraria incana</i>	T		R	R			
<i>Lepraria lesdainii</i>	R			R			
<i>Ochrolechia arborea</i>	T						
<i>Opegrapha varia</i>	T						T
<i>Parmelia sulcata</i>	T						
<i>Parmelina aurulenta</i>	T					W	
<i>Peltigera evansiana</i>			S				
<i>Peltigera polydactyla</i>			S				
<i>Peltigera rufescens</i>	S		S				
<i>Pertusaria macounii</i>	T						T
<i>Pheophyscia cernohorskyi</i>							T
<i>Phaeophyscia ciliata</i>	T						T
<i>Phaeophyscia pusilloides</i>	T		T				T
<i>Phaeophyscia rubropulchra</i>	T		T				T
<i>Physcia aipolia</i>			T				
<i>Physcia americana</i>			T				
<i>Physcia millegrana</i>	T		T				T
<i>Physcia stellaris</i>	T		T				T
<i>Physciella chloantha</i>	T						T
<i>Physconia detera</i>	T						T
<i>Porpidia macrocarpa</i>				R			
<i>Punctelia bolliana</i>							T
<i>Punctelia rudecta</i>	T						T
<i>Pyxine subcinerea</i>	T						
<i>Rinodina papillaria</i>	T						
<i>Strigula submuriformis</i>			T				
<i>Xanthoparmelia australasica</i>			R	R			
<i>Xanthoria candelaria</i>							T
<i>Xanthoria fallax</i>	T						T

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Table 4: Lowden-Miller State Forest State Endangered, Threatened and Special

Latin Name	Common Name	Species Status
1. <i>Amelanchier sanguinea</i>	Shadbush	E
2. <i>Aster furcatus</i>	Forked aster	T
3. <i>Besseyia bullii</i>	Kittentails	T
4. <i>Carex echinata</i>	Sedge	E
5. <i>Cypripedium acaule</i>	Moccasin flower	E
6. <i>Dichanthelium boreale</i> (<i>Panicum boreale</i>)	Northern panic grass	E
7. <i>Equisetum pratense</i>	Meadow horsetail	E
8. <i>Equisetum sylvaticum</i>	Horsetail	E
9. <i>Filipendula rubra</i>	Queen-of-the-prairie	T
10. <i>Lupinus perennis</i>	Wild lupine	SC
11. <i>Oryzopsis racemosa</i>	Rice grass	T
12. <i>Trientalis borealis</i>	Star flower	T

Species Status: E = State Endangered, T = State Threatened, SC = of Special Concern

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