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ERIGENIA BULBOSA



A detailed botanical line drawing of *Erigenia bulbosa*. The illustration shows a bulbous root with small fibrous roots extending from its base. A single stem rises from the bulb, branching into two. The left branch has three flower heads at the top, each with several small flowers. The right branch has several compound leaves with multiple leaflets. The drawing is executed in a clean, scientific style.

ERIGENIA

JOURNAL OF THE
SOUTHERN ILLINOIS NATIVE PLANT SOCIETY



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The SINPS is dedicated to the preservation, conservation, and study of the native plants and vegetation of southern Illinois.

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TO CONTRIBUTE: See inside back cover for guidelines.



In accordance with our original plan to devote one issue of Erigenia each year to the Illinois flora, we are pleased that Erigenia 3 contains three articles that add to the continuing amount of information being accumulated on the Illinois flora. The leadoff article provides a county-by-county update of new records for the Illinois flora that have been verified through the end of 1980. The records supplement those found in Mohlenbrock and Ladd's 1978 atlas of Illinois plants entitled Distribution of Illinois Vascular Plants. New records verified during 1981, 1982, and 1983 will be recorded in one of Erigenia's issues next year.

This issue's second article is devoted to new taxa of ferns for Illinois and is the second fern update to be published since Mohlenbrock's Ferns of Illinois appeared in 1967. Since the format for the fern update series follows the original publication, there are detailed descriptions and illustrations provided for the thirteen new ferns covered by this article.

One of the most difficult and certainly most confusing and often controversial problems with keeping abreast of a flora is the nomenclature of the taxa that comprise the flora. Since Mohlenbrock's publication in 1975, Guide to the Vascular Flora of Illinois, two major publications have appeared in an attempt to standardize the scientific names of North American vascular plants. The third article in Erigenia 3 summarizes the nomenclatural difference of the Illinois monocots among the Guide to the Vascular Flora of Illinois and the two new "standards." The dicots will be treated in similar fashion in an Erigenia issue next year.

Please note that in our book advertisements included in this issue, Distribution of Illinois Vascular Plants, Ferns of Illinois, and Guide to the Vascular Flora of Illinois are available at a special price from SINPS.

Note: The trinomials that appear in the list below are without the designation of var. or ssp. since these designations were also omitted from the maps in Mohlenbrock & Ladd (1978) due to the limited space available next to each map. To ascertain whether the trinomial refers to a variety or a subspecies, consult the Phylogenetic List of Illinois Vascular Plants that begins on page 258 of Mohlenbrock & Ladd (1978).

NEW DISTRIBUTION DATA FOR ILLINOIS VASCULAR PLANTS

Douglas M. Ladd and Robert H. Mohlenbrock

Abstract

A comprehensive summary of new county distribution data for Illinois vascular plants since the publication of Mohlenbrock and Ladd (1978) until the end of 1980 is presented, based on field and herbarium research. New county records (2,327) of previously reported taxa as well as 29 new taxa for the state are included in the paper. Six taxa are deleted from the Illinois flora, and several distribution and nomenclature revisions are presented.

Introduction

Intensive field and herbarium research since the publication of Mohlenbrock and Ladd (1978) has resulted in considerable Illinois vascular flora distribution data. It is the aim of this work to update the county by county distributions presented in Mohlenbrock and Ladd (1978). It is based on collections made through 1980. The following discussion is divided into two sections: a listing of additions and revisions to the distribution maps presented in our book, and a list of taxa new to Illinois since its publication. Following the previously established format, all listings in each section are alphabetized generically. Unless otherwise indicated, species concepts and nomenclature follow Mohlenbrock and Ladd (1978). All records and revisions listed herein have been confirmed by the authors. It should be emphasized that the distribution records reiterated in Henry, Scott, and Shildneck (1978) solely on the basis of previously published records were omitted because no confirming specimens could be located. Many records reported since 1978 have been found to be erroneous and are not included here.

Additional Distribution Records for Mapped Taxa

Acalypha gracilens: DEWITT, EFFINGHAM, MCLEAN, PIATT, SHELBY.
Acalypha ostryaefolia: CHRISTIAN, JOHNSON. *Acalypha virginica*: MOULTRIE. *Acer barbatum*: JOHNSON. *Acer nigrum*: KANE, POPE. *Acer platanoides*: IROQUOIS, KENDALL, LAKE. *Achillea millefolium lanulosa*: KANE. *Acorus calamus*: IROQUOIS, MASSAC, MOULTRIE. *Aesculus glabra*: DEWITT, LAKE, SHELBY. *Aesculus*

hippocastanum: LAKE. Agastache nepetoides: MASSAC, VERMILION. Agastache scrophulariaefolia: FAYETTE. Agrimonia gryposepala: JASPER. Agrimonia parviflora: CARROLL, DUPAGE, KNOX. Agrimonia rostellata: VERMILION, WILL. Agropyron repens: ALEXANDER, FAYETTE, GALLATIN. Agropyron smithii: GRUNDY, KANKAKEE, VERMILION. Agrostis alba palustris: DEKALB, WILL. Agrostis eliottiana: UNION. Agrostis hyemalis: DEKALB, IROQUOIS, KANKAKEE, KNOX. Agrostis perennans: EFFINGHAM, FAYETTE, KANKAKEE, LAKE. Agrostis scabra: JACKSON. Ailanthus altissima: FULTON, PEORIA. Ajuga reptans: KANE, WILL. Albizia julibrissin: ALEXANDER, PULASKI, RANDOLPH, ST. CLAIR, WILLIAMSON. Alettris farinosa: GRUNDY. Alisma plantago-aquatica americana: CARROLL, HENDERSON, HENRY. Alisma subcordatum: JODAVIESS, KNOX. Alliaria officinalis: DEWITT, MASON. Allium ampeloprasum atroviolaceum: JACKSON. Allium cernuum: BOONE. Allium mutabile: RANDOLPH. Allium sativum: GRUNDY. Alnus glutinosa: JACKSON, VERMILION. Alopecurus aequalis: KENDALL. Alopecurus carolinianus: DEWITT, FAYETTE, GRUNDY, HAMILTON, JEFFERSON, LOGAN, SALINE, VERMILION. Alopecurus pratensis: GRUNDY, JACKSON, MCHENRY, WILL. Althaea rosea: IROQUOIS, KNOX. Amaranthus albus: GALLATIN, JOHNSON, SHELBY. Amaranthus ambigens: IROQUOIS. Amaranthus cruentus: GRUNDY, IROQUOIS. Amaranthus graecizans: DEWITT, FAYETTE, IROQUOIS, JOHNSON, SHELBY, WILLIAMSON. Amaranthus hybridus: CHRISTIAN, FAYETTE, IROQUOIS, KANE, MOULTRIE, SALINE. Amaranthus powellii: IROQUOIS, JACKSON, PEORIA. Amaranthus retroflexus: CHRISTIAN, FULTON, IROQUOIS, VERMILION. Amaranthus spinosus: CHRISTIAN, DEWITT, PIATT, SHELBY. Amaranthus tamariscinus: DEWITT, FAYETTE, MOULTRIE, SANGAMON, SHELBY, WILL. Ambrosia psilostachya: DUPAGE. Amelanchier arborea: FAYETTE, KANE, KNOX, MOULTRIE. Amelanchier humilis: KANE. Amelanchier laevis: GRUNDY. Amorpha canescens: BOONE, LAKE, MCHENRY. Ampelopsis cordata: WILLIAMSON. Amphicarpa bracteata: KNOX, WILLIAMSON. Amphicarpa bracteata comosa: KNOX, UNION. Anagallis arvensis: FRANKLIN, JERSEY, LAKE, SHELBY. Andropogon virginicus: CHRISTIAN, MACON, MOULTRIE, SHELBY, VERMILION. Androsace occidentalis: GREENE, IROQUOIS. Anemone thalictroides: SHELBY. Angelica atropurpurea: IROQUOIS. Antennaria neglecta: EFFINGHAM, FULTON, SHELBY, WILLIAMSON. Antennaria neglecta attenuata: KENDALL. Antennaria plantaginifolia: KNOX. Anthemis tinctoria: KENDALL. Aplectrum hyemale: MOULTRIE. Apocynum androsaemifolium: FULTON, MARION, VERMILION. Apocynum sibiricum: UNION. Aquilegia canadensis: WILL. Arabis canadensis: WILL. Arabis hirsuta pycnocarpa: DUPAGE, GRUNDY. Arabis lyrata: CARROLL, LEE, OGLE, WHITE-SIDE; delete ALEXANDER, MASSAC, MONROE, ST. CLAIR, UNION (clerical error). Arabis shortii: DEWITT, MOULTRIE, SHELBY. Aralia racemosa: DEKALB, MASSAC, RANDOLPH, VERMILION, WILL.

Arctium lappa: GRUNDY, WILL. *Arctium minus*: ALEXANDER, FULTON, GRUNDY, KNOX, MASON, MASSAC. *Arctostaphylos uva-ursi* *coactilis*: no dot in KANKAKEE (printer's error). *Arenaria lateriflora*: KNOX. *Arenaria serpyllifolia*: FAYETTE, IROQUOIS, WILLIAMSON. *Aristida basiramea*: CARROLL, KANKAKEE, WINNEBAGO. *Aristida curtissii*: RANDOLPH. *Aristida dichotoma*: FAYETTE, GRUNDY. *Aristida longespica*: MONTGOMERY, MOULTRIE. *Aristida oligantha*: EFFINGHAM, FAYETTE, IROQUOIS, SHELBY, WARREN, WOODFORD. *Aristida purpurascens*: GRUNDY, IROQUOIS, SALINE. *Armoracia aquatica*: GRUNDY, JOHNSON, MACON, VERMILION. *Aronia prunifolia*: LAKE. *Arrhenatherum elatius*: JACKSON, KANE. *Artemisia absinthium*: DUPAGE, JACKSON. *Artemisia annua*: MONROE. *Artemisia ludoviciana*: KANE. *Arundinaria gigantea*: GREENE. *Arundo donax*: ALEXANDER. *Asclepias amplexicaulis*: UNION. *Asclepias hirtella*: DEKALB. *Asclepias perennis*: WILLIAMSON. *Asclepias purpurascens*: KNOX. *Asclepias viridiflora*: KENDALL, MOULTRIE. *Asparagus officinalis*: FULTON, IROQUOIS, KNOX. *Asplenium platyneuron*: DEWITT, IROQUOIS, VERMILION. *Asplenium resiliens*: ALEXANDER. *Asplenium X ebenoides*: UNION. *Asplenium trichomanes X pinnatifidum* is now *Asplenium X herb-wagneri* Taylor & Mohlenbr., see Taylor and Mohlenbrock (1977). *Aster anomalus*: BOND, JOHNSON. *Aster azureus*: KNOX, MCLEAN. *Aster dumosus*: JACKSON. *Aster ericoides*: BUREAU, FAYETTE. *Aster junciformis*: KANE. *Aster laevis*: KNOX. *Aster lateriflorus*: CHRISTIAN, EDGAR, EFFINGHAM. *Aster linearifolius*: IROQUOIS. *Aster ontarionis*: DEKALB, DUPAGE, FAYETTE. *Aster praealtus*: KANE. *Aster prenanthoides*: KENDALL. *Aster puniceus lucidulus*: DEWITT, VERMILION. *Aster sagittifolius*: KNOX, PULASKI, SHELBY. *Aster schreberi*: KNOX. *Aster shortii*: EDGAR. *Aster simplex*: CHRISTIAN, DEWITT. *Aster turbinellus*: MOULTRIE. *Aster undulatus*: POPE. *Aster vimineus*: MONROE, RANDOLPH. *Astragalus canadensis*: FAYETTE, IROQUOIS. *Athyrium felix-femina rubellum*: DEWITT. *Athyrium pycnocarpon*: KANE. *Atriplex patula*: DEWITT, FAYETTE, VERMILION. *Avena fatua*: WILL. *Avena sativa*: CARROLL, IROQUOIS, LEE, LIVINGSTON, MARSHALL, MONTGOMERY, STARK, WOODFORD. *Azolla mexicana*: CARROLL, POPE, WHITESIDE.

Bacopa rotundifolia: FAYETTE. *Baptisia australis*: COOK, DUPAGE. *Baptisia minor*: DUPAGE. *Barbarea vulgaris arcuata*: DEWITT, MOULTRIE. *Bartonia virginica*: RANDOLPH. *Berteroa incana*: WINNEBAGO. *Berula pusilla*: COOK. *Betula populifolia*: KANE, MCHENRY. *Bidens aristosa retrorsa*: KNOX. *Bidens bipinnata*: EFFINGHAM, IROQUOIS, PEORIA. *Bidens comosa*: CHRISTIAN, FAYETTE, JACKSON. *Bidens connata*: MASSAC. *Bidens coronata*: DEWITT. *Bidens dioscoidea*: MCDONOUGH. *Bidens vulgata*: FAYETTE, MASSAC, VERMILION. *Blephilia ciliata*: IROQUOIS. *Blephilia hirsuta*: MASSAC. *Boehmeria cylindrica*: KNOX. *Boeh-*

meria cylindrica drummondiana: DUPAGE, KANE, MCHENRY. *Boltonia asteroides*: DEKALB, KNOX. *Bothriochloa saccharoides*: CLARK. *Botrychium biternatum*: UNION. *Botrychium dissectum*: EDGAR, EFFINGHAM, KANE, MASSAC, RICHLAND, VERMILION. *Botrychium dissectum obliquum*: EFFINGHAM, FAYETTE, FULTON, KENDALL, KNOX, PEORIA. *Botrychium simplex*: LEE. *Bouteloua curtipendula*: IROQUOIS, PERRY, VERMILION. *Bouteloua gracilis*: HENRY. *Brachyelytrum erectum*: BROWN, IROQUOIS, JEFFERSON, JERSEY, KENDALL, LASALLE, PUTNAM, WASHINGTON. *Brassica hirta*: IROQUOIS. *Brassica juncea*: JACKSON, KENDALL. *Brassica kaber pinnatifida*: RANDOLPH. *Brickellia eupatorioides*: CRAWFORD, EDGAR. *Bromus arvensis*: KNOX. *Bromus ciliatus*: JASPER, MASON. *Bromus commutatus*: BROWN, BUREAU, DEWITT, EFFINGHAM, FULTON, KNOX, LIVINGSTON, ROCK ISLAND, WARREN, WHITE. *Bromus japonicus*: CALHOUN, CARROLL, CLAY, CLINTON, CRAWFORD, EDWARDS, EFFINGHAM, GREENE, IROQUOIS, JEFFERSON, MADISON, MARION, MASON, MERCER, RICHLAND, ST. CLAIR, SALINE, SCHUYLER, SHELBY, WABASH. *Bromus kalmii*: CARROLL. *Bromus purgans*: FAYETTE, IROQUOIS, JASPER. *Bromus racemosus*: FRANKLIN. *Bromus secalinus*: IROQUOIS. *Buchloe dactyloides*: KNOX, LAWRENCE, WILL. *Bulbostylis capillaris*: UNION, WILLIAMSON. *Bumelia lanuginosa oblongifolia*: HARDIN, ST. CLAIR.

Cacalia atriplicifolia: DEKALB, DUPAGE, MASSAC. *Cacalia muhlenbergii*: MASSAC. *Cacalia tuberosa*: KENDALL, MONTGOMERY. *Calamagrostis canadensis*: BOND, BROWN, CARROLL, LASALLE, WARREN. *Calamagrostis inexpansa brevior*: DUPAGE, KANE. *Calamovilfa longifolia*: BUREAU, TAZEWELL. *Callitriche heterophylla*: DUPAGE, MASSAC. *Caltha palustris*: DEWITT, JACKSON. *Calyptegia sepium americana*: BUREAU, CARROLL, CRAWFORD, CUMBERLAND, FAYETTE, LEE, MASSAC, PUTNAM, SCOTT, SHELBY, WASHINGTON. *Calystegia spithamea*: KNOX, MACON, SCHUYLER. *Campanula americana*: JASPER, KNOX. *Campsis radicans*: DUPAGE, KNOX. *Caragana arborescens*: PERRY. *Cardamine bulbosa*: KNOX, SHELBY, WAYNE, WHITESIDE. *Cardamine hirsuta*: MASSAC. *Cardamine parviflora arenicola*: KANKAKEE. *Cardamine pensylvanica*: KNOX. *Carduus nutans*: MASON. *Carex albolutescens*: BOONE, GRUNDY. *Carex amphibola*: KANE, VERMILION. *Carex annectens*: FULTON, IROQUOIS, VERMILION. *Carex annectens xanthocarpa*: KANE. *Carex artictata*: CHRISTIAN, DEWITT, FAYETTE, FULTON, KNOX, SANGAMON, VERMILION. *Carex bebbii*: VERMILION. *Carex bicknellii*: FULTON. *Carex brevior*: IROQUOIS, KNOX. *Carex bromoides*: DUPAGE, VERMILION. *Carex bushii*: UNION. *Carex careyana*: JOHNSON. *Carex cephalophora*: KNOX. *Carex communis*: VERMILION. *Carex comosa*: JOHNSON. *Carex conjuncta*: CASS, FAYETTE, JACKSON, KNOX, VERMILION. *Carex conoidea*: GRUNDY. *Carex crinita*: DUPAGE. *Carex crus-corvi*: FAYETTE. *Carex davisii*: DUPAGE, EFFINGHAM, KNOX. *Carex digitalis*: SALINE,

UNION. *Carex emoryi*: IROQUOIS. *Carex frankii*: CHRISTIAN. *Carex glaucoidea*: VERMILION. *Carex granularis*: FULTON, IROQUOIS, KNOX. *Carex gravida*: UNION. *Carex grisea*: IROQUOIS. *Carex haydenii*: DUPAGE, LAKE. *Carex hitchcockiana*: FAYETTE, VERMILION. *Carex hystericina*: FAYETTE, GRUNDY, KNOX. *Carex interior*: VERMILION. *Carex jamesii*: FAYETTE, WILLIAMSON. *Carex lacustris*: DUPAGE, FAYETTE. *Carex laevivaginata*: LAKE, VERMILION. *Carex lanuginosa*: EFFINGHAM, FULTON. *Carex laxiflora*: JACKSON. *Carex leavenworthii*: DUPAGE, KNOX, VERMILION, WILLIAMSON. *Carex leptalea*: FAYETTE. *Carex lupuliformis*: DEKALB. *Carex lurida*: JOHNSON. *Carex meadii*: EFFINGHAM, KANE. *Carex molesta*: EFFINGHAM. *Carex muskinguamensis*: KENDALL, RANDOLPH, ST. CLAIR. *Carex normalis*: FULTON, KNOX. *Carex pennsylvanica*: CHRISTIAN, MOULTRIE, SANGAMON. *Carex physorhyncha*: JACKSON. *Carex praegracilis*: COOK. *Carex prairea*: COOK, KANE. *Carex retroflexa*: MACON. *Carex retrorsa*: KANE. *Carex richardsonii*: COOK, KANE, MCHENRY. *Carex rosea*: KNOX. *Carex rostrata utriculata*: DUPAGE. *Carex sartwellii*: KANE. *Carex scoparia*: DUPAGE, UNION. *Carex socialis*: delete JACKSON (misidentification). *Carex sparganoides*: JOHNSON. *Carex spicata*: delete CHAMPAIGN; previous reports are based upon a misidentification (*C. spicata* is not presently known from Illinois). *Carex squarrosa*: LAKE. *Carex stipata*: DEWITT, KNOX. *Carex striatula*: JACKSON. *Carex suberecta*: CHRISTIAN, DUPAGE. *Carex stricta*: DUPAGE, KANE. *Carex swanii*: FAYETTE. *Carex tenera*: KENDALL. *Carex texensis*: JOHNSON. *Carex tribuloides*: IROQUOIS, KNOX. *Carex trichocarpa*: GRUNDY, KENDALL. *Carex tuckermanii*: DUPAGE. *Carex umbellata*: CHRISTIAN, DEWITT, FAYETTE, MOULTRIE, SANGAMON, SHELBY. *Carum carvi*: WILL. *Carya aquatica*: JACKSON. *Carya laciniosa*: SHELBY. *Carya tomentosa*: VERMILION. *Cassia hebecarpa*: DUPAGE. *Cassia marilandica*: BUREAU. *Cassia tora*: COOK. *Castanea mollissima*: JACKSON. *Castilleja coccinea*: FAYETTE, KNOX. *Castilleja sessiliflora*: STEPHENSON. *Catalpa speciosa*: ST. CLAIR, WILL, WILLIAMSON. *Caulophyllum thalictroides*: FAYETTE. *Ceanothus americanus*: FULTON, JASPER. *Celastrus orbiculatus*: LAKE. *Celastrus scandens*: KNOX. *Cenchrus longispinus*: EDWARDS, EFFINGHAM, KNOX, MERCER, WILLIAMSON, WOODFORD. *Centaurea cyanus*: MASSAC, WILLIAMSON. *Centaurea diffusa*: DUPAGE. *Centaurea jacea*: KANE, LAKE. *Centaurea maculosa*: FAYETTE, POPE. *Centaurea nigra*: KANE. *Centaurea repens*: WILLIAMSON. *Cerastium brachypodum*: BOONE, DEKALB. *Cerastium viscosum*: FRANKLIN, FULTON, VERMILION, WILLIAMSON. *Ceratophyllum echinatum*: JACKSON. *Chaerophyllum procumbens*: DEKALB, DEWITT, FULTON, KNOX. *Chamaesyce maculata*: MASON. *Chelidonium majus*: CARROLL. *Chelone glabra*: DEWITT. *Chenopodium ambrosioides*: KANE. *Chenopodium gigantospermum*: KNOX, VERMILION. *Chenopodium pallescens*: JACKSON. *Chenopodium standleyanum*: DEWITT, FULTON, MOULTRIE. *Chloris verticillata*: ADAMS, IROQUOIS. *Chrysanthemum leucanthemum*: IROQUOIS,

KNOX. *Cimicifuga racemosa*: COOK, KENDALL. *Cimicifuga rubifolia*: GALLATIN, JOHNSON. *Cinna arundinacea*: STEPHENSON. *Circaea quadrifidulcata canadensis*: COOK. *Cirsium arvense*: CARROLL, FULTON. *Citrullus vulgaris*: CALHOUN, LAWRENCE, MASSAC, PULASKI, WHITE. *Cleome spinosa*: map for this species should be combined with *C. hassleriana*. *Collinsia verna*: IROQUOIS. *Collinsia canadensis*: JOHNSON. *Comandra richardiana*: IROQUOIS, KNOX. *Commelina communis*: KNOX. *Conium maculatum*: ALEXANDER, WILLIAMSON. *Conopholis americana*: BUREAU. *Convallaria majalis*: IROQUOIS. *Convolvulus arvensis*: CALHOUN, MASSAC. *Corallorhiza odontorhiza*: LAKE, RANDOLPH. *Coreopsis palmata*: WILLIAMSON. *Coreopsis tinctoria*: WILL. *Coreopsis tripteris*: WILLIAMSON. *Cornus drummondii*: IROQUOIS. *Cornus foemina*: JASPER. *Cornus racemosa*: EFFINGHAM. *Cornus stolonifera*: KENDALL, SALINE. *Coronilla varia*: IROQUOIS, JERSEY, KNOX, LAKE. *Corydalis aurea*: KANKAKEE. *Corydalis halei*: POPE. *Corydalis micrantha*: KNOX. *Crataegus calpodendron*: DUPAGE, KANE, MACON, RANDOLPH. *Crataegus crus-galli*: BOONE, DEWITT, FULTON, RANDOLPH. *Crataegus engelmannii*: RANDOLPH, WILLIAMSON. *Crataegus holmesiana*: KANE. *Crataegus margareta*: KENDALL. *Crataegus punctata*: FULTON. *Crataegus succulenta*: KENDALL. *Crataegus viridis*: RANDOLPH. *Crotalaria sagittalis*: IROQUOIS. *Croton capitatus*: KANE. *Croton glandulosus septentrionalis*: IROQUOIS, KNOX. *Crotonopsis elliptica*: MASSAC. *Crypsis schoenoides*: MONROE, WILL. *Cucumis sativus*: HANCOCK. *Cucurbita foetidissima*: CHRISTIAN, TAZEWELL. *Cucurbita pepo ovifera*: CALHOUN, LAWRENCE, PULASKI. *Cuscuta cephalanthi*: COOK. *Cuscuta coryla*: JACKSON. *Cuscuta gronvii*: KENDALL. *Cycloloma atriplicifolia*: IROQUOIS. *Cynodon dactylon*: EDWARDS, GALLATIN. *Cynoglossum virginianum*: VERMILION. *Cyperus acuminatus*: UNION. *Cyperus densicaespitosus*: JACKSON. *Cyperus diandrus*: COOK, DUPAGE, KANE, KANKAKEE, LAKE, WOODFORD. *Cyperus erythrorhizos*: DEKALB. *Cyperus ferruginescens*: DEKALB, RANDOLPH, UNION (CRAWFORD should be fully dotted). *Cyperus filiculmis*: CARROLL. *Cyperus filiculmis macilentus*: ADAMS, WILLIAMSON. *Cyperus grayioides*: JERSEY, MONTGOMERY, PEORIA. *Cyperus ovularis*: FULTON, MENARD, MONTGOMERY, MORGAN, PIKE, SANGAMON, SCOTT. *Cyperus rivularis*: FULTON, HENDERSON, UNION. *Cyperus schweinitzii*: KANE. *Cystopteris fragilis mackayi*: CARROLL.

Danthonia spicata: ADAMS, BOONE, BROWN, COOK, DEKALB, DUPAGE, GRUNDY, IROQUOIS, JASPER, JODAVIESS, KANE, KENDALL, LAKE, LASSALLE, MCDONOUGH, MCHENRY, OGLE, PEORIA, STARK, TAZEWELL, WAYNE, WILL, WINNEBAGO. *Datura innoxia*: CASS, SCOTT. *Datura stramonium*: FULTON, KNOX, MASON. *Delphinium ajacis*: FRANKLIN. *Delphinium consolida*: COOK, HENDERSON, MARION. *Delphinium tricornis*: SHELBY. *Dennstaedtia punctilobula*: OGLE. *Den-*

taria laciniata: CLAY. Descurania sophia: KNOX. Desmodium canadense: BOND. Desmodium canescens: FULTON, VERMILION. Desmodium ciliare: BOND, EFFINGHAM. Desmodium cuspidatum: KNOX. Desmodium cuspidatum longifolium: KANKAKEE, KENDALL, WILL. Desmodium marilandicum: FAYETTE, VERMILION. Desmodium paniculatum: KENDALL, WILL. Dianthus armeria: IROQUOIS, KNOX, MASSAC. Diarrhena americana obovata: BROWN, KNOX. Dicentra canadensis: SHELBY. Diervilla lonicera: KANE. Digitaria filiformis: JACKSON. Digitaria ischaemum: BOND, BROWN, CARROLL, CLINTON, COOK, EFFINGHAM, GREENE, KNOX, LASALLE, LEE, LIVINGSTON, MACOUPIN, MERCER, MONROE, PIKE, ROCK ISLAND, WABASH, WARREN, WHITESIDE. Diodia teres: WILL. Dioscorea quaternata: JASPER, MARION. Diospyros virginiana: MENARD. Dip-sacus laciniatus: IROQUOIS, JOHNSON, KENDALL, MCLEAN. Dirca palustris: KANKAKEE. Distichlis stricta: BOONE. Dodecatheon amethystinum: CALHOUN, JERSEY. Dodecatheon meadia: EDWARDS, FRANKLIN. Draba brachycarpa: CHRISTIAN. Draba cuneifolia: MADISON. Draba cuneifolia foliosa: RANDOLPH; delete MONROE (locality error). Draba verna: GRUNDY, IROQUOIS, VERMILION. Dryopteris carthusiana: DUPAGE, HENRY. Dryopteris cristata: HENRY, KENDALL. Dryopteris goldiana: DUPAGE. Duchesnea indica: KANE, LAKE. Dulichium arundinaceum: HANCOCK, HENDERSON.

Echinacea pallida: KNOX. Echinacea purpurea: JASPER. Echinochloa colonum: JACKSON. Echinochloa walteri: MARSHALL, PIKE. Echinocystis lobata: BUREAU, IROQUOIS, WOODFORD. Echinodorus berteroi lanceolata: KNOX, LAWRENCE. Eclipta alba: DUPAGE. Elaeagnus angustifolia: ADAMS, FULTON, MENARD. Elaeagnus umbellata: JACKSON, RANDOLPH. Eleocharis elliptica: KANE. Eleocharis erythropoda: JACKSON, KNOX, MCHENRY. Eleocharis intermedia: misplaced dot should be in KANE. Eleocharis obtusa: DEKALB, KANE, KNOX. Eleocharis obtusa detonsa: VERMILION. Eleocharis obtusa ovata: COOK, DUPAGE, GRUNDY, KENDALL, LAKE. Eleocharis olivacea: LAKE. Eleocharis palustris: GRUNDY, KENDALL, WOODFORD. Eleocharis parvula: EFFINGHAM. Eleocharis rostellata: COOK, KENDALL. Eleusine indica: BOND, CARROLL, IROQUOIS, MARSHALL, WHITESIDE. Ellisia nyctelea: CLAY, KNOX, MADISON, RANDOLPH. Elymus riparius: BOONE, BUREAU, EDGAR, FAYETTE, POPE, VERMILION. Equisetum fluviatile: DEKALB, HANCOCK, JODAVIESS. Equisetum laevigatum: EDWARDS, JASPER, SCHUYLER. Equisetum variegatum: KENDALL. Eragrostis capillaris: CRAWFORD, MORGAN. Eragrostis frankii: ADAMS, BROWN, BUREAU, CALHOUN, CLINTON, GALLATIN, LAWRENCE, MADISON, PIKE, RANDOLPH. Eragrostis hypnoides: CLAY, MARSHALL, SHELBY, WARREN. Eragrostis poaeoides: IROQUOIS. Eragrostis reptans: RANDOLPH. Eragrostis trichodes: WHITESIDE. Eragrostis trichodes pilifera: DOUGLAS, HENRY, JOHNSON, MASSAC. SCOTT. Erechtites hieracifolia: EFFINGHAM, RANDOLPH. Erianthus alo-

pecuroides: GALLATIN; delete FRANKLIN (misidentification).
 Erianthus ravennae: ROCK ISLAND. Erigenia bulbosa: FAYETTE.
 Erigeron divaricatus: CHRISTIAN. Erigeron pulchellus: JOHN-
 SON, KNOX. Eriochloa contracta: EDWARDS, RANDOLPH, WHITE.
 Erucastrum gallicum: WILL. Erysimum cheiranthoides: KANE.
 Erysimum repandum: CHRISTIAN. Erythronium americanum: DEWITT,
 FAYETTE, VERMILION. Euonymus alatus: KANE, LAKE, WILL. Euon-
 ymus americanus: JACKSON. Euonymus europaeus: DUPAGE. Eu-
 patorium maculatum: DEWITT. Eupatorium sessilifolium: MACON.
 Euphorbia cyparissias: CARROLL, EFFINGHAM, IROQUOIS, KNOX.
 Euphorbia esula: KNOX. Euphorbia helioscopia: UNION. Eup-
 horbia marginata: DEKALB, FULTON.

Fagopyrum esculentum: ALEXANDER, RANDOLPH. Festuca obtusa:
 CARROLL, CLINTON. Festuca ovina duriuscula: UNION. Festuca
 paradoxa: JASPER, JEFFERSON, RICHLAND. Festuca rubra: MORGAN,
 VERMILION. Fimbristylis annua: ALEXANDER. Fimbristylis
 autumnalis: HANCOCK, ST. CLAIR. Floerkea proserpinacoides:
 IROQUOIS, KNOX. Forestiera acuminata: WILLIAMSON. Fragaria
 virginiana: EFFINGHAM, FULTON, IROQUOIS. Fraxinus nigra:
 FAYETTE. Fraxinus pennsylvanica subintegerrima: WILLIAMSON.
 Fraxinus quadrangulata: VERMILION. Fraxinus tomentosa: JACK-
 SON, WILLIAMSON. Froelichia gracilis: RANDOLPH.

Galeopsis tetrahit: DEKALB, KANE, LAKE. Galinsoga ciliata:
 CARROLL, KNOX. Galium asprellum: COOK. Galium circaeans:
 IROQUOIS, MASSAC. Galium mollugo: MCHENRY. Galium pilosum:
 IROQUOIS. Galium tinctorium: KANE. Galium trifidum: KANE,
 KNOX. Galium triflorum: CHRISTIAN, IROQUOIS. Gaura longi-
 flora: JACKSON. Gaura parviflora: GRUNDY, KANKAKEE, KENDALL,
 WILL, WILLIAMSON. Gentiana flavida: IROQUOIS. Gentiana pro-
 cera: WILL. Gentiana quinquefolia occidentalis: MACON. Gen-
 tiana saponaria: RANDOLPH. Gerardia fasciculata: UNION.
 Gerardia gattereri: KNOX. Gerardia skinneriana: LASALLE.
 Geum laciniatum: KNOX. Geum vernum: FRANKLIN, IROQUOIS.
 Geum virginianum: RANDOLPH. Glecoma hederacea micrantha:
 FRANKLIN, IROQUOIS. Glyceria grandis: KANE. Glyceria sep-
 tentrionalis: LEE, ST. CLAIR. Glycine max: IROQUOIS, RAN-
 DOLPH. Gratiola neglecta: WILLIAMSON. Grindelia lanceolata:
 delete WILL; based on misidentification of Haplopappus cilia-
 tus (G. lanceolata is not presently known from Illinois).
 Gymnocarpium dryopteris: CARROLL, JODAVIESS, STEPHENSON. Gym-
 nocladus dioica: DEWITT. Gypsophila perfoliata: COOK.

Habenaria clavellata: WILL. Habenaria hyperborea huronensis:
 WILL. Hamamelis virginiana: LASALLE. Haplopappus ciliatus:
 DUPAGE, KNOX, WILL. Hedeoma hispida: FULTON. Hedeoma pule-
 gioides: DEWITT. Helenium flexuosum: DUPAGE. Helianthemum

bicknellii: DUPAGE, FULTON, IROQUOIS. *Helianthemum canadense*: ROCK ISLAND. *Helianthus angustifolius*: WAYNE. *Helianthus decapetalus*: KENDALL. *Helianthus divaricatus*: PERRY. *Helianthus giganteus*: WASHINGTON. *Helianthus hirsutus*: KENDALL. *Helianthus mollis*: KNOX, WILLIAMSON. *Helianthus occidentalis*: JOHNSON, KNOX, UNION. *Helianthus tuberosus subcanescens*: GALLATIN, HARDIN, SALINE, WILLIAMSON. *Heliopsis helianthoides*: EFFINGHAM, GALLATIN, MARION, MASSAC, SALINE, WILLIAMSON. *Hemerocallis fulva*: EDGAR, EFFINGHAM, IROQUOIS, KNOX, PEORIA. *Hemerocallis lilio-asphodelus*: JACKSON. *Hepatica nobilis acuta*: MOULTRIE. *Heracleum maximum*: IROQUOIS. *Hesperis matronalis*: FRANKLIN. *Heterotheca latifolia*: KANE, KNOX. *Hibiscus militaris*: IROQUOIS, ST. CLAIR, WILLIAMSON. *Hibiscus trionum*: CARROLL, WILLIAMSON. *Hieracium aurantiacum*: KANE. *Hieracium canadense*: GRUNDY. *Hieracium gronovii*: EFFINGHAM, FAYETTE, PEORIA. *Hieracium longipilum*: GREENE. *Hieracium pratense*: VERMILION, WILL. *Hieracium scabrum*: DEWITT, MARION, SHELBY. *Holcus lanatus*: KNOX, PULASKI. *Holosteum umbellatum*: GALLATIN. *Hordeum jubatum*: FRANKLIN. *Hordeum pusillum*: IROQUOIS, ROCK ISLAND, WARREN. *Hordeum vulgare*: FRANKLIN, IROQUOIS, MARION, PERRY, POPE, WASHINGTON. *Hosta lancifolia*: COOK. *Houstonia minima*: SHELBY. *Humulus japonicus*: DUPAGE, KNOX. *Hydrangea arborescens*: JASPER. *Hydrastis canadensis*: JEFFERSON, MONROE, PERRY. *Hydrophyllum appendiculatum*: IROQUOIS, KNOX. *Hydrophyllum canadense*: MACON. *Hydrophyllum virginianum*: FULTON. *Hypericum adpressum*: RANDOLPH. *Hypericum canadense*: KANE, JEFFERSON. *Hypericum densiflorum*: MASSAC. *Hypericum denticulatum*: MASSAC. *Hypericum drummondii*: GALLATIN. *Hypericum gentianoides*: CALHOUN, JEFFERSON, LASALLE, MASSAC. *Hypericum majus*: HENDERSON, IROQUOIS, WHITESIDE, WILL. *Hypericum mutilum*: CALHOUN, CHRISTIAN, WAYNE. *Hypericum perforatum*: CARROLL, LASALLE, PUTNAM, WASHINGTON. *Hypericum punctatum pseudomaculatum*: MACON. *Hypericum pyramidatum*: FAYETTE, KENDALL. *Hypericum spatulatum*: SCHUYLER. *Hypericum sphaerocarpum*: ADAMS, BUREAU, FULTON, HENRY, KNOX, LASALLE, MADISON, MARSHALL, MASSAC, MORGAN, PEORIA, PIKE, PULASKI, PUTNAM, SCOTT, STARK, TAZEWELL, WARREN, WOODFORD.

Ilex decidua: FAYETTE. *Ilex verticillata*: DUPAGE, IROQUOIS. *Impatiens biflora*: FULTON, IROQUOIS, KNOX. *Inula helenium*: WILL. *Iodanthus pinnatifidus*: CALHOUN, KANE. *Ipomoea coccinea*: JASPER, RANDOLPH. *Ipomoea hederacea*: DEWITT, IROQUOIS. *Ipomoea pandurata*: IROQUOIS, JASPER. *Ipomoea purpurea*: DEWITT, MOULTRIE, SHELBY, WILLIAMSON. *Iris brevicaulis*: CALHOUN, WABASH. *Iris fulva*: JACKSON. *Iris pseudacorus*: LASALLE, MCHENRY, MACON. *Iris shrevei*: DEWITT. *Isanthus brachiatus*: DUPAGE. *Isoetes melanopoda*: WHITE. *Isopyrum biternatum*: COOK, DEWITT, PERRY. *Iva annua*: FAYETTE.

Jeffersonia diphylla: JOHNSON. *Juglans cinerea*: DEWITT, VERMILION. *Juglans nigra*: FULTON, KNOX. *Juncus acuminatus*: KANE. *Juncus brachycephalus*: DUPAGE. *Juncus bufonius*: IROQUOIS. *Juncus diffusissimus*: POPE. *Juncus effusus solutus*: IROQUOIS. *Juncus interior*: GREENE. *Juncus nodosus*: COOK. *Juncus secundus*: JACKSON. *Juniperus virginiana*: KNOX. *Jussiaea decurrens*: JASPER.

Kickxia elatine: RANDOLPH, WILLIAMSON. *Kochia scoparia*: FULTON, GREENE, MORGAN, WILLIAMSON. *Koeleria macrantha*: FAYETTE, GALLATIN, IROQUOIS, MCLEAN, PUTNAM. *Krigia biflora*: KNOX. *Krigia oppositifolia*: FRANKLIN. *Krigia virginica*: IROQUOIS.

Lactuca ludoviciana: MACOUPIN. *Lactuca saligna*: CHRISTIAN, IROQUOIS, KNOX, PEORIA. *Lamium amplexicaule*: KNOX, RANDOLPH. *Lamium purpureum*: CHRISTIAN, FAYETTE, MASSAC, WILLIAMSON. *Laportea canadensis*: IROQUOIS. *Lathyrus latifolius*: JERSEY, MACON, RANDOLPH. *Lathyrus palustris*: MACON. *Lechea mucronata*: BROWN, IROQUOIS, LASALLE, MONROE. *Lechea tenuifolia*: CLINTON, FRANKLIN, JODAVIESS. *Leersia lenticularis*: GALLATIN, HAMILTON, KANKAKEE, RANDOLPH, WHITE. *Leersia oryzoides*: BROWN, DOUGLAS, GALLATIN, HARDIN, KNOX, MARTON, RANDOLPH, ST. CLAIR, SCHUYLER, SHELBY, WHITE. *Lemna minor*: JOHNSON, WILLIAMSON. *Lemna obscura*: JACKSON. *Lemna trisulca*: JACKSON. *Leontodon autumnalis*: CHRISTIAN. *Leonurus cardiaca*: KNOX. *Lepidium campestre*: EFFINGHAM, WILLIAMSON. *Leptochloa attenuata*: CALHOUN, GALLATIN, HARDIN, JERSEY, MADISON, MONROE, POPE, RANDOLPH, ST. CLAIR, WHITE. *Leptochloa fascicularis*: ADAMS, ALEXANDER, CALHOUN, FAYETTE, IROQUOIS, KANE, MCDONOUGH, MACON, MADISON, RANDOLPH, RICHLAND. *Leptochloa filiformis*: MONROE, WHITE. *Leptoloma cognatum*: CALHOUN, CLARK, DEKALB, IROQUOIS, KANE, SALINE, VERMILION. *Lespedeza cuneata*: DOUGLAS, WASHINGTON. *Lespedeza intermedia*: CRAWFORD, DUPAGE. *Lespedeza procumbens*: BOND, EFFINGHAM. *Lespedeza repens*: RANDOLPH. *Lespedeza striata*: CLARK, CRAWFORD, UNION, WASHINGTON. *Lespedeza thunbergii*: JOHNSON. *Lespedeza violacea*: DUPAGE, IROQUOIS, KANKAKEE, MOULTRIE. *Lespedeza virginica*: KNOX. *Liatris aspera*: ALEXANDER, BUREAU, KNOX. *Liatris scabra*: EFFINGHAM. *Liatris squarrosa*: UNION, WILLIAMSON. *Ligustrum obtusifolium*: JACKSON. *Ligustrum vulgare*: DUPAGE, MACON, PEORIA, RANDOLPH. *Lilium michiganense*: KNOX. *Limnium spongia*: PULASKI. *Linaria canadensis*: WILLIAMSON. *Linaria vulgaris*: JERSEY. *Lindera benzoin*: JASPER. *Lindera benzoin pubescens*: JACKSON. *Lindernia anagallidea*: KNOX, RANDOLPH. *Linum sulcatum*: BUREAU, FULTON. *Linum usitatissimum*: BOONE. *Lippia lanceolata*: KNOX. *Lobelia spicata leptostachys*: DEKALB. *Lolium multiflorum*: KANE, STEPHENSON, VERMILION. *Lolium perenne*: CALHOUN, EDGAR, GREENE, SHELBY,

WARREN, WHITESIDE, WOODFORD. *Lonicera japonica*: PEORIA.
Lonicera maackii: IROQUOIS, POPE, ST. CLAIR, WILL. *Lonicera
 prolifera*: DEWITT, FULTON. *Lonicera tatarica*: WILL. *Loni-
 cera xylosteum*: DUPAGE. *Lonidera X bella*: BOONE, DUPAGE,
 JACKSON, KNOX, MCHENRY, ST. CLAIR, VERMILION. *Lotus cornicu-
 latus*: CLARK, CRAWFORD, DOUGLAS, EDGAR, HENDERSON, KNOX, LA-
 SALLE, MERCER, MOULTRIE, SCHUYLER, WARREN, WILLIAMSON. *Lud-
 wigia alternifolia*: GRUNDY. *Ludwigia glandulosa*: JACKSON.
Ludwigia palustris americana: BOND, MACON. *Luzula multiflora*:
 IROQUOIS. *Lychnis alba*: FULTON, KNOX. *Lychnis dioica*: KANE.
Lycium halamifolium: MCHENRY. *Lycopersicon esculentum*:
 ADAMS, CALHOUN, CRAWFORD, RANDOLPH, SCHUYLER, WABASH, WHITE,
 WILL. *Lycopodium adpressum*: delete WINNEBAGO; no confirming
 specimen located (*L. adpressum* is not presently known from
 Illinois). *Lycopodium flabelliforme*: HARDIN, LEE, MONTGOMERY,
 WINNEBAGO. *Lysimachia ciliata*: EDWARDS, JASPER, MASSAC,
 SCOTT, WAYNE, WHITE. *Lysimachia clethroides*: SANGAMON. *Lysi-
 machia lanceolata lanceolata*: CARROLL, CRAWFORD, FRANKLIN, JASPER,
 PIKE, ROCK ISLAND. *Lysimachia lanceolata hybrida*: HENDERSON, JACK-
 SON, JOHNSON, LASALLE, MCDONOUGH, MACOUPIN, MENARD, PEORIA,
 PIKE, ST. CLAIR, STARK, TAZEWEEL, UNION, WABASH, WHITESIDE,
 WINNEBAGO. *Lysimachia nummularia*: BOND, EFFINGHAM, HENRY,
 KNOX, ROCK ISLAND, WAYNE, WILLIAMSON. *Lysimachia quadriflora*:
 JACKSON, LAWRENCE. *Lysimachia terrestris*: HENRY. *Lysimachia
 thyrsoiflora*: MERCER, ROCK ISLAND, UNION. *Lysimachia vulgaris*:
 WOODFORD. *Lysimachia X commixta*: MASON. *Lythrum salicaria*:
 FULTON.

Maclura pomifera: CARROLL. *Malus coronaria lancifolia*: ST.
 CLAIR. *Malus pumila*: GRUNDY, IROQUOIS, KANE, KENDALL, WILL.
Malva neglecta: IROQUOIS, KNOX, WARREN. *Matelea decipiens*:
 JACKSON. *Matricaria chamomilla*: KNOX. *Matricaria maritima*:
 BOONE, LAKE. *Matricaria matricarioides*: IROQUOIS. *Matteuccia
 struthiopteris*: LAKE. *Medicago falcata*: MCHENRY. *Melica
 nutica*: ST. CLAIR. *Melica nitens*: PIKE, PUTNAM. *Melothria
 pendula*: UNION. *Mentha arvensis villosa*: FAYETTE, KNOX.
Mentha crispa: COOK, LAKE. *Mentha spicata*: GRUNDY, JERSEY,
 KENDALL. *Mentha X alopecuroides*: KANKAKEE. *Mentha X piperita*:
 DEKALB, GRUNDY, KENDALL. *Mertensia virginica*: SHELBY. *Mimu-
 lus glabratus fremontii*: PUTNAM. *Miscanthus sacchariflorus*:
 HENRY, KNOX, WHITESIDE. *Miscanthus sinensis*: CASS, FRANKLIN,
 MASSAC, SALINE, WAYNE. *Mitchella repens*: LAKE, VERMILION.
Mitella diphylla: KANE. *Mollugo verticillatus*: IROQUOIS.
Monarda bradburiana: MASSAC. *Monarda clinopodia*: FAYETTE.
Monarda fistulosa: KANKAKEE, MASSAC. *Monotropa hypopithys*:
 IROQUOIS. *Monotropa uniflora*: CALHOUN, EDGAR, KANE, KNOX.
Morus alba: SHELBY. *Muhlenbergia asperifolia*: ST. CLAIR.
Muhlenbergia bushii: JACKSON, SHELBY. *Muhlenbergia cuspidata*:

UNION. *Muhlenbergia frondosa*: ALEXANDER, BUREAU, FAYETTE, GALLATIN, LEE, MCLEAN, MACON, MONROE, PIKE, RICHLAND, SHELBY, WHITE, WHITESIDE. *Muhlenbergia glabrifloris*: RICHLAND, SALINE. *Muhlenbergia mexicana*: BROWN, CARROLL, COLES. *Muhlenbergia racemosa*: CARROLL, CASS, KANE, LIVINGSTON, MONROE, UNION. *Muhlenbergia schreberi*: ALEXANDER, CARROLL, DEWITT, FRANKLIN, SHELBY, WHITESIDE, WILLIAMSON, WINNEBAGO. *Muhlenbergia sobolifera*: CARROLL, CLINTON, COLES, FRANKLIN, JASPER, KNOX, MADISON, RICHLAND, VERMILION. *Muhlenbergia sylvatica*: COOK, DUPAGE. *Muhlenbergia tenuiflora*: FAYETTE, JOHNSON, PUTNAM, SALLINE, SCHUYLER, SCOTT. *Myosotis stricta*: COOK. *Myosoton aquaticum*: LASALLE. *Myosurus minimus*: DEWITT, IROQUOIS. *Myriophyllum verticillatum pectinatum*: RANDOLPH.

Najas guadalupensis should be spelled *Najas guadalupensis*. *Nasturtium officinale*: CARROLL. *Nicandra physalodes*: COLES. *Nuphar luteum variegatum*: GRUNDY, MCHENRY. *Nymphaea tuberosa*: KNOX. *Nyssa sylvatica*: IROQUOIS, VERMILION.

Oenothera biennis canescens: CARROLL. *Oenothera laciniata*: IROQUOIS. *Oenothera pilosella*: MACON, WILLIAMSON. *Oenothera serrulata*: MCHENRY. *Ophioglossum engelmannii*: UNION. *Ophioglossum vulgatum pseudopodium*: CLARK, IROQUOIS, LEE, MCHENRY, RICHLAND, WILL, WINNEBAGO. *Opuntia macrorhiza*: delete dot on CALHOUN/PIKE border (printer's error). *Ornithogalum umbellatum*: IROQUOIS, KENDALL. *Orobanche uniflora*: KNOX. *Oryzopsis racemosa*: KANE, LAKE. *Osmunda cinnamomea*: ADAMS, BROWN, MCHENRY, RICHLAND, SCHUYLER. *Osmunda claytoniana*: IROQUOIS. *Osmunda regalis spectabilis*: MCHENRY.

Panax quinquefolium: KNOX. *Panicum boscii*: CLINTON, EDGAR, FRANKLIN, JASPER, PERRY, SCHUYLER, WAYNE. *Panicum capillare*: CLINTON, EDWARDS, MARION, MARSHALL, MOULTRIE, PUTNAM. *Panicum clandestinum*: ADAMS, BOND, EFFINGHAM, GRUNDY, JASPER, PUTNAM, SHELBY. *Panicum commutatum*: GALLATIN, PULASKI. *Panicum depauperatum*: ALEXANDER, CARROLL, EFFINGHAM, FAYETTE, WHITE, WILLIAMSON. *Panicum dichotomiflorum*: JASPER, MARSHALL, ROCK ISLAND. *Panicum dichotomum*: COLES. *Panicum gattingeri*: LASALLE. *Panicum jooii*: UNION. *Panicum lanuginosum implicatum*: KANE, MENARD. *Panicum latifolium*: GREENE, LASALLE, PIKE. *Panicum laxiflorum*: IROQUOIS, LEE. *Panicum leibergii*: BROWN, MCLEAN. *Panicum linearifolium*: ALEXANDER, CLINTON, GALLATIN, LEE. *Panicum malacophyllum*: UNION, WILLIAMSON. *Panicum meridionale*: ADAMS, ALEXANDER, LASALLE, LEE, MARSHALL, MONROE, POPE, PUTNAM, RANDOLPH. *Panicum microcarpon*: FAYETTE. *Panicum miliaceum*: IROQUOIS, RANDOLPH. *Panicum oligosanthos oligosanthos*: DUPAGE, KENDAL WOODFORD. *Panicum oligosanthos schribnerianum*: DUPAGE, EFFINGHAM, JASPER, MCLEAN. *Panicum perlongum*: CLARK,

ROCK ISLAND, SCHUYLER. *Panicum philadelphicum*: HARDIN. *Panicum polyanthes*: FRANKLIN, WAYNE. *Panicum praecocius*: EFFINGHAM, JACKSON, UNION. *Panicum rigidulum*: EFFINGHAM, FAYETTE, MACON. *Panicum rigidulum condensum*: JACKSON. *Panicum sphaerocarpon*: EFFINGHAM, FAYETTE, FRANKLIN, MONROE. *Panicum villosissimum villosissimum*: JOHNSON, KENDALL, MCHENRY. *Panicum villosissimum pseudopubescens*: KANKAKEE, MERCER, SCOTT. *Panicum virgatum*: JASPER, KNOX, MARION. *Panicum wilcoxianum*: POPE. *Panicum yadkinense*: UNION. *Papaver somniferum*: WILL. *Parietaria pensylvanica*: WILLIAMSON. *Paronychia canadensis*: GREENE, IROQUOIS, KENDALL, PUTNAM. *Paronychia fastigiata*: MACON. *Parthenium integrifolium*: KENDALL, WILLIAMSON. *Parthenocissus vitacea*: IROQUOIS, KNOX. *Paspalum ciliatifolium*: CASS, EFFINGHAM, MASON, SHELBY. *Passiflora lutea*: CLINTON. *Pedicularis canadensis*: KNOX. *Peltandra virginica*: JACKSON. *Penstemon alluviorum*: JOHNSON. *Penstemon calycosus*: KANE. *Penstemon digitalis*: KANE, KNOX. *Penstemon pallidus*: KNOX. *Penstemon tubaeiflorus*: DUPAGE. *Perideridia americana*: IROQUOIS. *Petalostemum candidum*: MCLEAN. *Petunia X hybrida*: LAKE. *Phacelia bipinnatifida*: RANDOLPH, RICHLAND. *Phalaris arundinacea*: CALHOUN, CARROLL, CLAY, FRANKLIN, JODAVIESS, KNOX, LEE, MONROE, PIKE, RANDOLPH, RICHLAND, UNION, WOODFORD. *Phlox pilosa*: KNOX. *Phragmites australis*: FULTON, GALLATIN, HAMILTON, KNOX, LAWRENCE. *Physalis heterophylla*: EDGAR. *Physalis ixocarpa*: COOK, LAKE. *Physocarpus opulifolius*: IROQUOIS. *Phytolacca americana*: KNOX. *Pisum sativum*: KANE. *Plantago aristata*: IROQUOIS. *Plantago major*: IROQUOIS, MASON. *Plantago purshii*: IROQUOIS, KANE. *Plantago virginica*: KNOX. *Poa alsodes*: LAKE. *Poa angustifolia*: delete JACKSON (misidentification). *Poa annua*: BUREAU, CLAY, DEWITT, IROQUOIS, KENDALL, MASON, MERCER, MOULTRIE, SHELBY. *Poa autumnalis*: delete JACKSON (misidentification). *Poa bulbosa*: HARDIN. *Poa chapmaniana*: STARK. *Poa languida*: LAKE. *Poa palustris*: HARDIN, JERSEY, VERMILION. *Poa sylvestris*: BOND, EDWARDS, FAYETTE, KNOX, MERCER, MONTGOMERY, PIKE, WARREN. *Poinsettia cyanthophora*: CASS, MACON, MADISON, SCOTT. *Poinsettia dentata*: MASSAC. *Polanisia dodecandra*: FAYETTE, KNOX. *Polygala sanguinea*: KNOX, MASSAC. *Polygonella articulata*: MASON. *Polygonum achoreum*: MONROE. *Polygonum aviculare*: CHRISTIAN, DEWITT. *Polygonum caespitosum longisetum*: LAKE, WILLIAMSON. *Polygonum coccineum*: JERSEY. *Polygonum convolvulus*: FULTON, WILLIAMSON. *Polygonum erectum*: MACON. *Polygonum hydropiper*: FAYETTE. *Polygonum hydropiperoides*: KNOX, VERMILION. *Polygonum opelusanum*: WILL. *Polygonum persicaria*: CHRISTIAN. *Polygonum sagittatum*: KNOX. *Polygonum scandens*: EFFINGHAM, MCHENRY, MOULTRIE, SHELBY. *Polygonum tenue*: BUREAU. *Polygonum virginianum*: DEWITT, MCHENRY. *Polymnia canadensis*: JASPER. *Polymnia uvedalia*: JERSEY. *Polystichum acrostichoides*: DEWITT, LAKE. *Polytaenia nuttallii*: IROQUOIS. *Populus alba*:

DEWITT, IROQUOIS. *Populus balsamifera*: MCHENRY. *Populus canescens*: LAKE. *Populus grandidentata*: DEWITT, FULTON, SHELBY. *Populus tremuloides*: COOK, FULTON. *Potamogeton crispus*: JACKSON, KANE. *Potamogeton diversifolius*: GRUNDY, WILL. *Potamogeton illinoensis*: KNOX. *Potamogeton nodosus*: KANE. *Potamogeton pusillus*: GRUNDY. *Potamogeton vaseyi*: WILL. *Potentilla argentea*: IROQUOIS. *Potentilla canadensis*: delete DEKALB; based on a specimen of *P. reptans* (*P. canadensis* is not presently known from Illinois). *Potentilla norvegica*: MASSAC. *Prenanthes altissima*: MASSAC, MONROE. *Proboscidea louisianica*: KANE. *Prunus americana*: JASPER. *Prunus americana lanata*: GREENE, JERSEY, KNOX. *Prunus angustifolia*: FAYETTE, GREENE, GRUNDY. *Prunus cerasus*: JACKSON. *Prunus hortulana*: GREENE. *Prunus mahaleb*: GRUNDY, JERSEY. *Prunus munsoniana*: COLES, EDWARDS, MOULTRIE. *Prunus persica*: IROQUOIS. *Prunus susquehanae*: WILL. *Prunus virginiana*: IROQUOIS, JOHNSON. *Psoralea onobrychis*: IROQUOIS. *Puccinellia distans*: IROQUOIS. *Pycnanthemum pilosum*: UNION. *Pycnanthemum pycnanthemoides*: WILLIAMSON. *Pycnanthemum torreyi*: POPE.

Quercus bicolor: SHELBY. *Quercus falcata*: JASPER, MADISON. *Quercus palustris*: SHELBY. *Quercus phellos*: JOHNSON. *Quercus stellata*: delete GRUNDY (no confirming specimen located).

Ranunculus abortivus: GRUNDY. *Ranunculus carolinianus*: JACKSON. *Ranunculus fascicularis*: FAYETTE. *Ranunculus hispidus*: DUPAGE. *Ranunculus micranthus*: FAYETTE, MACOUPIN, VERMILION. *Ranunculus trichophyllus*: GRUNDY. *Raphanus raphanistrum*: DUPAGE. *Ratibida pinnata*: ALEXANDER, FRANKLIN. *Rhexia mariana*: JACKSON. *Rhus aromatica*: MACON. *Rhus copallina*: MACON, SHELBY, WILLIAMSON. *Rhus typhina*: MASON. *Ribes missouriense*: IROQUOIS. *Ribes sativum*: KNOX. *Robinia pseudoacacia*: CARROLL, DEWITT. *Rorippa islandica fernaldiana*: FULTON. *Rorippa islandica hispida*: LAKE. *Rorippa sinuata*: JACKSON. *Rorippa sylvestris*: CHRISTIAN, JACKSON. *Rosa multiflora*: FULTON, KNOX, MASSAC. *Rosa setigera*: IROQUOIS. *Rubus allegheniensis*: JASPER. *Rubus enslenii*: UNION. *Rubus flagellaris*: EFFINGHAM, MASSAC. *Rubus laciniatus*: LAKE. *Rubus occidentalis*: IROQUOIS, KNOX, RANDOLPH. *Rubus occidentalis*: JACKSON, UNION. *Rubus odoratus*: DEKALB. *Rubus pensylvanicus*: DEKALB, FULTON, GRUNDY, KANE, KENDALL, LAKE, MONROE. *Rubus procerus*: JACKSON. *Rubus pubescens*: DUPAGE. *Rubus schneideri*: WILL. *Rubus strigosus*: DUPAGE. *Rubus trivialis*: ST. CLAIR. *Rudbeckia subtomentosa*: BUREAU. *Rumex altissimus*: WILLIAMSON. *Rumex crispus*: FULTON. *Rumex maritimus fueginus*: KENDALL. *Rumex obtusifolius*: EDGAR, JERSEY, ST. CLAIR. *Rumex orbiculatus*: VERMILION. *Rumex verticillatus*: FAYETTE, KNOX.

Sabatia angularis: FRANKLIN. *Sabatia campestris*: BOND. *Sagittaria brevirostra*: DEKALB, WILL. *Sagittaria graminea*: DEKALB, WILL. *Sagittaria latifolia*: KNOX. *Salix alba*: KANE. *Salix amygdaloides*: FULTON, KANE. *Salix discolor*: GRUNDY, KENDALL, MCHENRY. *Salix eriocephala*: MASON. *Salix fragilis*: GRUNDY. *Salix glaucophylloides glaucophylla*: DUPAGE, MCHENRY. *Salix humilis*: EFFINGHAM, FULTON, KNOX. *Salix interior*: SHELBY. *Salix purpurea*: DUPAGE. *Salix sericea*: FAYETTE, VERMILION. *Salsola kali*: IROQUOIS, LEE, WILLIAMSON. *Sanguisorba minor*: COOK. *Sanicula canadensis*: JASPER. *Sanicula gregaria*: KNOX. *Sanicula trifoliata*: VERMILION. *Saponaria vaccaria*: WILL. *Saxifraga pensylvanica*: FAYETTE. *Schizachyrium scoparium*: KNOX, LOGAN, MCLEAN, MONTGOMERY, PULASKI. *Scirpus acutus*: GRUNDY, KNOX. *Scirpus americanus*: MOULTRIE. *Scirpus cyperinus*: HENDERSON, MARION, RANDOLPH. *Scirpus fluviatilis*: CALHOUN. *Scirpus georgianus*: MASSAC. *Scirpus koilolepis*: JOHNSON, SALINE; delete BOND record. *Scirpus micranthus*: UNION. *Scirpus pendulus*: FULTON. *Scirpus validus*: CALHOUN, JERSEY. *Scleria triglomerata*: HANCOCK. *Scutellaria ovata*: KNOX. Map labelled *Scutellaria ovata versicolor* is actually the distribution map for *Scutellaria parvula*; map labelled *Scutellaria parvula* is actually the distribution map for *Scutellaria parvula australis*. *Scutellaria ovata versicolor* is mapped with *Scutellaria ovata*. *Scutellaria parvula australis*: UNION. *Secale cereale*: FULTON, HANCOCK, SCHUYLER. *Sedum acre*: IROQUOIS. *Sedum purpureum*: DUPAGE. *Sedum ternatum*: IROQUOIS. *Selaginella*: Buck (1977) has revised the taxonomy of the *S. apoda* complex. *Selaginella apoda* (sensu stricto) is now known from WABASH, ST. CLAIR, and all counties southward that are dotted. Delete COLES, COOK, DOUGLAS, FULTON, KANE, KANKAKEE, KENDALL, LAKE, MCHENRY, MENARD, PEORIA, TAZEWELL, VERMILION, WILL; These are referable to *S. eclipes*; see part II of this article. *Senecio glabellus*: FRANKLIN, WILLIAMSON. *Senecio pauperculus*: KNOX. *Senecio plattensis*: WILL. *Sesbania exaltata*: JACKSON. *Setaria geniculata*: CASS, MORGAN. *Setaria italica*: RANDOLPH, WASHINGTON. *Setaria verticillata*: IROQUOIS, LIVINGSTON, PIKE. *Seymeria macrophylla*: MASSAC. *Sibara virginica*: DEWITT, MOULTRIE. *Sicyos angulatus*: CLINTON, MERCER, WHITE, WHITESIDE, WINNEBAGO. *Sida spinosa*: KNOX. *Silene antirrhina*: FRANKLIN. *Silene cserei*: FAYETTE, GRUNDY, KANKAKEE, KENDALL, MACON, WILL. *Silene cucubalus*: IROQUOIS. *Silene dichotoma*: KENDALL, MASON. *Silene nivea*: FAYETTE, KNOX. *Silene stellata*: JASPER. *Silene virginica*: EDWARDS, KANE, MACON. *Sisymbrium officinale*: CHRISTIAN, COOK, DEKALB, DUPAGE, KANE, KENDALL. *Sisyrinchium albidum*: FULTON, SCOTT. *Sisyrinchium angustifolium*: BROWN, KANE, SCOTT. *Sisyrinchium atlanticum*: POPE, UNION. *Sisyrinchium campestre*: JASPER. *Sium suave*: FRANKLIN, KNOX. *Smilax hispida*: IROQUOIS. *Smilax pulverulenta*:

MCDONOUGH, TAZEWELL. *Solanum dulcamara*: KNOX. *Solanum rostratum*: FULTON. *Solidago bicolor*: MARION. *Solidago flexicaulis*: FAYETTE, MACON. *Solidago gigantea*: CHRISTIAN. *Solidago graminifolia*: UNION. *Solidago juncea*: JOHNSON. *Solidago nemoralis*: BUREAU. *Solidago patula*: COOK, LAKE. *Solidago riddellii*: KANKAKEE, KENDALL, WILL. *Solidago speciosa*: KNOX. *Solidago uliginosa*: DUPAGE. *Sonchus asper*: EFFINGHAM, FULTON. *Sonchus oleraceus*: CALHOUN. *Sorbus aucuparia*: WILL. *Sorghum bicolor*: ADAMS, HARDIN, HENDERSON, LAWRENCE, MARION, MERCER, POPE, RANDOLPH, WAYNE. *Sorghum halepense*: CUMBERLAND, PIKE, WILL. *Sparganium chlorocarpum*: KANE, MCHENRY. *Sparganium eurycarpum*: JACKSON, MONROE. *Spartina pectinata*: PERRY. *Specularia perfoliata*: EDGAR, KANKAKEE, KNOX. *Sphenopholis nitida*: ALEXANDER. *Sphenopholis obtusata obtusata*: ALEXANDER, BOND, BROWN, CALHOUN, FRANKLIN, HARDIN, HENDERSON, LAKE, MACOUPIN, MADISON, MONTGOMERY. *Sphenopholis obtusata major*: BOND, BUREAU, CARROLL, CLAY, EFFINGHAM, IROQUOIS, JERSEY, KANKAKEE, LEE, PUTNAM, WAYNE, WHITESIDE, WINNEBAGO. *Spiraea alba*: BOONE. *Spiranthes cernua*: MASSAC. *Spiranthes gracilis*: MASSAC. *Spiranthes lacera*: WILL. *Spiranthes magnicamporum*: CHRISTIAN, MCHENRY. *Spiranthes ovalis*: KNOX, PEORIA. *Spiranthes romanzoffiana*: MCHENRY. *Spiranthes vernalis*: UNION. *Sporobolus asper*: CLINTON, EFFINGHAM, JERSEY, MERCER, PUTNAM, ROCK ISLAND. *Sporobolus clandestinus*: IROQUOIS, JERSEY, MONROE. *Sporobolus cryptandrus*: ADAMS, CALHOUN, LEE, MADISON, TAZEWELL, VERMILION. *Sporobolus heterolepis*: ADAMS, BUREAU, JERSEY, MCLEAN, MARSHALL, PIKE. *Sporobolus neglectus*: GREENE, JERSEY, KNOX, MACOUPIN, MONROE, ST. CLAIR. *Sporobolus vaginiflorus*: ADAMS, FAYETTE, FRANKLIN, JERSEY, KNOX, LEE, MARSHALL, MOULTRIE, ROCK ISLAND, WARREN. *Stachys tenuifolia*: JASPER. *Stachys tenuifolia hispida*: JACKSON, KANKAKEE. *Stellaria graminea*: UNION. *Stellaria longifolia*: KENDALL. *Stipa spartea*: HENDERSON, KNOX, MACOUPIN, ST. CLAIR. *Strophostyles leiosperma*: IROQUOIS, KANE. *Styrax americana*: CLINTON. *Symphoricarpos albus*: KANE, LASALLE. *Symphoricarpos occidentalis*: KNOX. *Symphoricarpos orbiculatus*: VERMILION. *Symphytum officinale*: KNOX. *Symplocarpus foetidus*: KANKAKEE.

Taenidia integerrima: DEWITT, IROQUOIS. *Talinum rugospermum*: IROQUOIS, KANKAKEE. *Tamarix gallica*: MACOUPIN. *Tanacetum vulgare*: FRANKLIN. *Taxodium distichum*: JACKSON. *Thaspium barbinode*: KNOX. *Thelypteris hexagonoptera*: HENRY, RICHLAND. *Thelypteris palustris pubescens*: FAYETTE, LASALLE. *Thlaspi arvense*: EFFINGHAM. *Tilia americana*: KENDALL. *Tofieldia glutinosa*: KANE. *Torilis japonica*: EFFINGHAM, KANE, WILLIAMSON. *Toxicodendron vernix*: KANE. *Tradescantia ohlensis*: EFFINGHAM, SHELBY, WILLIAMSON. *Tradescantia subaspera*: FAYETTE, FULTON. *Tragopogon dubius*: JACKSON, KNOX, WILLIAMSON. *Trago-*

pogon pratensis: FULTON, IROQUOIS. Triadenum fraseri: DUPAGE, WILL. Triadenum tubulosum: GALLATIN, WILLIAMSON. Triadenum walteri: WILLIAMSON. Tribulus terrestris: CARROLL, DUPAGE, KANE. Tridens flavus: LEE, OGLE, WHITESIDE. Tridens strictus: JEFFERSON. Trientalis borealis: MCHENRY. Trifolium dubium: KANKAKEE. Trifolium procumbens: BOONE, IROQUOIS, KNOX. Triglochin palustris: WILL. Trillium sessile: IROQUOIS. Triostemum illinoense: DEKALB, DEWITT, FULTON. Triostemum perfoliatum: KANKAKEE. Triplasis purpurea: LASALLE, LEE, MENARD, MORGAN. Tripsacum dactyloides: RANDOLPH, WILLIAMSON. Triticum aestivum: IROQUOIS, KNOX, MONTGOMERY. Typha angustifolia: GALLATIN, IROQUOIS, KNOX.

Ulmus pumila: FULTON, IROQUOIS, JACKSON, KNOX, RANDOLPH, WILLIAMSON. Urtica chamaedryoides: JACKSON; delete MASSAC (no specimen located). Urtica dioica: CLARK, UNION. Utricularia cornuta: MCHENRY. Utricularia vulgaris: WILL. Uvularia grandiflora: MARION.

Vaccinium angustifolium laevifolium: IROQUOIS, WILL. Vaccinium arboreum: JERSEY. Vallisneria americana: CARROLL. Verbascum blattaria: ALEXANDER, CARROLL, FAYETTE, FULTON, WILLIAMSON. Verbascum phlomoides: FRANKLIN. Verbascum pulverulentum: delete LAKE; based on a specimen of Verbascum speciosum (V. pulverulentum is not presently known from Illinois). Verbena bracteata: JERSEY. Verbena canadensis: COOK, IROQUOIS. Verbena stricta: DUPAGE. Verbena X blanchardii: DUPAGE. Verbena X illicita: KANKAKEE. Verbesina alternifolia: JACKSON, MASSAC. Vernonia baldwini: LAKE, VERMILION. Vernonia gigantea: MCHENRY. Vernonia comosa: WILL. Viburnum acerifolium: MCHENRY. Viburnum lantana: LAKE. Viburnum molle: ST. CLAIR. Viburnum opulus: JACKSON, KNOX, MACON. Viburnum prunifolium: FULTON. Viburnum recognitum: KANKAKEE. Viburnum rufidulum: WILLIAMSON. Viburnum trilobum: LAKE. Vicia americana: KANKAKEE. Vicia dasycarpa: MASSAC. Vicia villosa: MASSAC. Vinca minor: IROQUOIS. Viola affinis: BOONE, JACKSON, VERMILION. Viola cucullata: BOONE. Viola lanceolata vittata: COOK, LAKE. Viola missouriensis: DUPAGE, FRANKLIN. Viola nephrophylla: CHAMPAIGN, HENRY, KANE, LEE, PIATT, STARK, WINNEBAGO. Viola pedata: FULTON, GALLATIN, HARDIN. Viola pedatifida: IROQUOIS, LEE. Viola pubescens: HENRY. Viola pubescens eriocarpa: SHELBY, WAYNE. Viola rafinesquii: CHRISTIAN, DEWITT, FULTON, MOULTRIE. Viola striata: FULTON. Vitis aestivalis: KANE, LAKE. Vitis palmata: RANDOLPH. Vitis rupestris: JACKSON. Vulpia octoflora octoflora: CARROLL, CLINTON, EDWARDS, FRANKLIN, MONTGOMERY, WHITE. Vulpia octoflora glauca: CASS, WILLIAMSON. Vulpia octoflora tenella: IROQUOIS, MADISON, WHITESIDE.

Wolffia columbiana: GRUNDY, KANKAKEE, KENDALL, WILL. *Woodsia ilvensis*: LASALLE.

Xanthoxylum americanum: BOONE.

Yucca filamentosa smalliana: GRUNDY.

Zanichellia palustris: KNOX, MCHENRY. *Zea mays*: CARROLL, CHAMPAIGN, DEKALB, IROQUOIS, JEFFERSON, RANDOLPH, ST. CLAIR. *Zizania aquatica aquatica*: KANE, KENDALL, LAKE, MADISON. *Zizania aquatica interior*: UNION. *Zizea aurea*: KNOX.

Taxa New to Illinois

Some of the following records have been previously reported, mostly in Swink and Wilhelm (1979), but the following listing will serve as a complete updated catalog of all new vascular plants confirmed in Illinois since the publication of Mohlenbrock and Ladd (1978) until the end of 1980. New Illinois records collected during 1981, 1982, and 1983 will be reported in the Erigenia Flora of Illinois update in 1984.

Acer pseudoplatanus L.: DEKALB (MORT).

Agrostis interrupta L.: Although reported from MACON by Henry, Scott, and Shildneck (1978), there is strong evidence this colony grew from seed spilled during botanical activities. Since it only persisted for one year, and, in the strict sense was not spontaneous, it is excluded from the Illinois flora.

Amelanchier sanguinea (Pursh) DC.: COOK (MORT).

Anthriscus scandescina (Weber) Mansfeld: DUPAGE (MORT).

Anthriscus sylvestris (L.) Hoffm.: KANE (MORT).

Aralia elata (Miq.) Seem.: DUPAGE (MORT).

Bromus carinatus Hook.: DUPAGE (MORT).

Cerastium semidecandrum L.: IROQUOIS (private herbarium).

Croton lindheimerianus Scheele: MADISON (MO).

Dryopteris filix-mas (L.) Schott.: COOK (F).

Gymnocarpium robertianum (Hoffm.) Newm.: CARROLL (UWLC).

Lathyrus tuberosus L.: KANE (MORT).

Lonicera Xminutiflora Zabel: DUPAGE (MORT).

Lonicera Xmuendensis Rehd.: BOONE, COOK, DEKALB, DUPAGE, GRUNDY, KANE, KANKAKEE, KENDALL, MCHENRY, WILL (MORT).

Lonicera Xmuscaviensis Rehd.: DUPAGE (MORT).

Lonicera Xxylosteoides Tausch: DUPAGE, GRUNDY (MORT).

Lunaria annua L.: CHAMPAIGN (ILL).

Mirabilis jalapa L.: GRUNDY (MORT).

Paspalum dilatatum Poir.: JACKSON (SIU).

Phyllanthus urinaria L.: JACKSON (SIU).

Pluchea purpurascens (Swartz) DC. var. succulenta Fern.: COOK (MORT).

Potentilla reptans L.: DEKALB (MORT).

Prunus padus L.: DUPAGE (MORT).

Psoralea argophylla Pursh: DUPAGE (MORT).

Pyrus calleryana Decne.: DUPAGE (MORT).

Rhodotypos scandens (Thunb.) Makino: DUPAGE (MORT).

Rumex dentatus L.: MADISON (ILL).

Salsola collina Pall.: MADISON (ISM).

Selaginella eclipses Buck: COLES, COOK, DOUGLAS, FULTON, KANE, KANKAKEE, KENDALL, LAKE, MCHENRY, MENARD, PEORIA, TAZEWELL, VERMILION, WILL. See Buck (1977).

Verbascum speciosum Schrader: LAKE (SIU).

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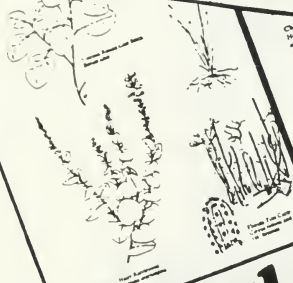
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Additions to the Illustrated Flora of Illinois

II. Ferns

Robert H. Mohlenbrock

Abstract

This paper reports additional records for ferns found in Illinois since 1970. In addition to a number of county records, the following taxa are reported new for Illinois during that period: Lycopodium clavatum var. clavatum, Lycopodium clavatum var. magastachyon, Selaginella eclipses, Botrychium oneidense, Botrychium matricariaefolium, Botrychium simplex, Dryopteris celsa, Dryopteris filix-mas, Gymnocarpium robertianum, Asplenosorus X herb-wagneri, Asplenosorus X shawneensis, Asplenium trichomanes ssp. quadrivalens, and Cystopteris X illinoensis.

The first volume of the Illustrated Flora of Illinois (Mohlenbrock, 1967) was devoted to the ferns and fern allies and included eighty-one species and six additional varieties, distributed among twenty-eight genera and ten families. A total of 1714 county records were recorded.

It was intended to make periodic reports to update the Illustrated Flora of Illinois, using basically the same format that appeared in the original volume.

In 1970, the first update to the ferns was published (Mohlenbrock, 1970). In that work, three additional species and one form were added to the Illinois flora, bringing the total to eight-four species and seven infraspecific taxa. The 121 new county records also reported in 1970 brought to 1835 the number of county vouchers for Illinois ferns.

In this second update, an additional thirteen taxa are added to the fern flora of Illinois. One species, Isoetes butleri Engelm., is deleted. The total of ferns and fern allies known from Illinois at the time of this writing is 95 species and nine recognized lesser taxa. The 305 new county records, less six for Isoetes butleri and nine other deletions, give 2125 county vouchers for Illinois ferns. The illustrations are by Jon Howe and Mark W. Mohlenbrock.

Taxa New to the State

1. *Lycopodium clavatum* L. Sp. Pl. 1101. 1753.
Creeping plant with forked, prostrate stems, producing simple or dichotomously branched ascending branches up to 30 (-35) cm long; foliage leaves linear, usually tipped with a hair-like bristle, ascending or spreading, up to 8 mm long; leaves of the peduncle linear, subulate-tipped, up to 5 mm long; gemmae absent; sporangia borne in strobili; strobili 1-6 per peduncle, up to 10 cm long, 3-5 mm thick, stramineous, the bracts jagged at the tip.
Two varieties occur in Illinois, distinguished by the following key:
1. Strobili 2-6 per peduncle; leaves of the upright branches spreading-----L. clavatum var. clavatum
1. Strobilus 1 per peduncle; leaves of the upright branches ascending-----L. clavatum var. megastachyon
- 1a. *Lycopodium clavatum* L. var. *clavatum* Fig. 1.
Leaves of the upright branches spreading; strobili 2-6 per peduncle.

Common Name: Common Clubmoss.

Habitat: North-facing slope of sandy soil, below outcrops of St. Peter sandstone, and seepage stream banks draining from loess bluff.

Range: Newfoundland to Alaska, south to Washington, Montana, Iowa, northern Illinois, northern Ohio, and North Carolina.

Illinois Distribution: Ogle Co.: near head of Annie's Canyon, Castle Rock State Park, T23N, R10E, Sect. 18, September 29, 1975, M. Bowles s.n.; Carroll Co.: 5 miles NE of Thomson, Peck 77-188 (UWL). Recently collected in Rock Island County.

This northern clubmoss is distinguished from all other species of *Lycopodium* in the state by its ascending, usually unbranched sterile branches and its pedunculate strobili with jagged-tipped bracts. It differs from var. megastachyon by the presence of 2 or more strobili per peduncle and by its spreading leaves.



Fig. 1. Lycopodium clavatum var. clavatum (Common Clubmoss).
Habit, X 1/3.

At the Ogle County station, this species grows in association with Liparis loeselii, Aquilegia canadensis, Goodyera pubescens, Fragaria virginiana, and Equisetum hyemale.

- 1b. Lycopodium clavatum L. var. megastachyon Fern. & Bissell, Rhodora 12:53. 1910. Fig. 2.
Leaves of the upright branches ascending; strobilus 1 per peduncle.

Common Name: Common Clubmoss.

Habitat: Along edge of small ditch.

Range: Newfoundland to Ontario, south to northern Illinois, New York, and Massachusetts.

Illinois Distribution: Will Co.: 4/5 mile west of West River Road, T32N, R9E, Sect. 11, July 29, 1976, K. Wilson & M. Madeny s.n. (SIU).

This variety possesses a single stout strobilus on each peduncle. The upright branches bear ascending leaves. The Illinois specimen has remarkable long, twisted bristle tips on the leaves.

Species associated with L. clavatum var. megastachyon at the Will County station include Lespedeza capitata, Viola fimbriatula, Osmunda regalis var. spectabilis, Helianthus mollis, Schizachyrium scoparium, Panicum virgatum, Solidago nemoralis, Solidago juncea, Andropogon gerardii, Parthenium integrifolium, Spiraea tomentosa, Aletris farinosa, Liatris spicata, and Bartonia virginica.

2. Selaginella eclipses Buck, Can. Journ. Bot. 55:366. 1977. Fig. 3.

Long-creeping plants with irregular branching; leaves membranous, 4-ranked, the larger ones oblong-ovate, serrate, 1.2-2.0 mm long, 0.5-1.3 mm broad, the smaller ones ovate to ovate-lanceolate, serrate, long-attenuate, frequently hyaline, 1.1-1.8 mm long, 0.4-0.8 mm broad; cone spike-like, appearing sessile, 1-4 cm long; sporophylls ovate, irregularly serrate; megaspores bone-white, reticulate and pitted, 0.3-0.4 mm in diameter; microspores orange.

Common Name: Small Clubmoss.

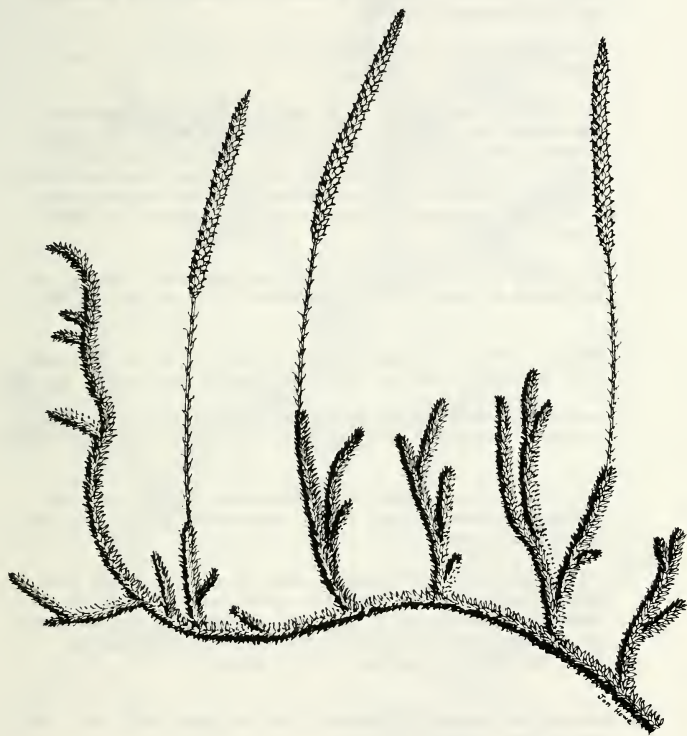


Fig. 2. Lycopodium clavatum var. megastachyon (Common Club-moss). Habit, X 1/3.

Habitat: Moist to wet, often calcareous habitats.

Range: Southern Ontario and northern New York, west to Michigan, northern Indiana, southeastern Wisconsin, northern Illinois, southern Missouri, northwestern Arkansas, and northeastern Oklahoma.

Illinois Distribution: Apparently confined to the northern two-thirds of Illinois.

All Illinois specimens of S. eclipses have been assigned previously to S. apoda. Following study of the S. apoda complex, Buck (1977) concluded that the traditional S. apoda is actually comprised of two species, the widespread S. apoda, mainly in the southeastern United States, and S. eclipses, a species primarily of the midwest and Great Lakes states.

The major differences between S. eclipses and S. apoda, as indicated by Buck (1977), are given in the following key:

1. Smaller (dorsal) leaves long-attenuate, with the apex costate; megaspores shiny, laxly reticulate-----S. eclipses
1. Smaller (dorsal) leaves acute or, if long-attenuate, not costate; megaspores dull, closely reticulate-----S. apoda

Buck (1977) states that the differences between the two species are subtle, with mature megaspores giving the most reliable characteristics.

A re-examination of Illinois material revealed that specimens collected in the northern two-thirds of Illinois are probably referable to S. eclipses, while those in the southern one-third of the state (north to and including St. Clair and Wabash counties) are S. apoda.

3. *Botrychium matricariaefolium* A. Br. ex Koch, Syn. Fil. Germ. ed. 2, 972. 1845. Fig. 4.
Plants from fleshy roots; common stalk erect, glaucous, nearly entirely above ground; sterile blade to 9 cm long, short-petiolate, pinnate or bipinnatifid, the pinnae oblong, obtuse, crenately lobed; fertile stalk usually branched, up to 8 cm long; sporangia spherical, up to 1 mm in diameter; spores muriccate.



Fig. 3. Selaginella eclipses (Small Clubmoss). Habit, X 2.
Close-up, X 15.

Common Names: Daisy-leaf Grape Fern; Moonwort.

Habitat: Young, second growth, upland Acer saccharum woods.

Range: Newfoundland to British Columbia, south to Idaho, South Dakota, northern Illinois, Ohio, and Virginia.

Illinois Distribution: Winnebago Co.: Rock Cut State Park, June 15, 1970, D. McFall & M. Jones s.n. (ILL).

This species and B. simplex were found growing in the same area at Rock Cut State Park in Winnebago County (McFall & Jones, 1972). The nearly sessile, pinnate or bipinnatifid sterile blade distinguishes this species from B. simplex.

4. *Botrychium simplex* E. Hitchc. Am. Journ. Sci. 6:310. 1823. Fig. 5.

Plants from fleshy roots; common stalk arching or ascending or erect, partly below the ground; sterile blade to 4 cm long, petiolate, usually pinnately divided, the pinnae often lunate, variable, often crenulate; fertile stalk simple or short-branched, up to 5 cm long; sporangia spherical, up to 1.2 mm in diameter; spores reticulate.

Common Name: Least Moonwort.

Habitat: Woods and adjacent thicket overtopped by Ulmus rubra.

Range: Newfoundland to British Columbia, south to California, New Mexico, northern Illinois, northern Indiana, Pennsylvania, and New Jersey.

Illinois Distribution: Winnebago Co.: Rock Cut State Park, June 15, 1970, D. McFall & M. Jones s.n. (ILL). subsequently found in Cook and Lee counties.

In its overall range, this species exhibits remarkable blade variability, ranging from entire to pinnately cleft.

McFall and Jones (1972) report this inconspicuous species common at the Rock Cut State Park site. Also at this site are Botrychium matricariaefolium, B. dissectum var. dissectum, B. dissectum var. obliquum, B. multifidum ssp. silai-folium, and Ophioglossum vulgatum.



Fig. 4. Botrychium matricariaefolium (Daisy-leaf Grape Fern).
Habit (left), X 1. Habit (center), X 1. Leaf (lower right),
X 1 1/2. Sporangia, X 10.



Fig. 5. Botrychium simplex (Least Moonwort). Habit, X 1.



Fig. 6. Botrychium oneidense (Oneida Grape Fern). Leaf, X 1.

5. *Botrychium oneidense* (Gilb.) House, Am. Midl. Nat. 7:126. 1931. Fig. 6.

Botrychium ternatum var. oneidense Gilb. Fern. Bull. 9:27. 1901.

Botrychium dissectum var. oneidense (Gilb.) Farw. Papers Mich. Acad. Sci. 3:89. 1924.

Fern with overwintering green fronds, the segments broadly ovate and rounded, otherwise as in B. dissectum.

Common Name: Oneida Grape Fern.

Habitat: Woods, in sandy soil.

Range: New Brunswick to Minnesota, south to Illinois, Indiana, Ohio, and North Carolina.

Illinois Distribution: Ogle Co.: Camp Loudon, 6 miles south of Oregon, December 2, 1948, E. W. & G. B. Fell f48-450. (ISM).

The Illinois specimen, originally identified as B. multifidum, has been corrected to B. oneidense by Dr. W. H. Wagner, Jr., a conclusion concurred in by this author.

Although some botanists consider this taxon to be merely a variant of B. dissectum, others believe that B. oneidense is a valid species.

6. *Dryopteris celsa* (Wm. Palmer) Small, Ferns Southeastern States 284. 1938. Fig. 7.

Dryopteris goldiana (Hook.) Gray ssp. celsa Wm. Palmer, Proc. Biol. Soc. Wash. 13:65. 1899.

Evergreen fern from a slender rhizome; frond rather firm, up to 1 m long, less than half as broad, gradually narrowed in the upper half, the basal pinnae subequal to the middle ones; stipe with brown scales; sori close to the midvein.

Common Name: Log Fern.

Habitat: Along railroad adjacent to a cypress swamp (in Illinois).

Range: Scattered in the eastern United States.

Illinois Distribution: Johnson Co.: Heron Pond Natural Area, Jack White s.n. (SIU).



Fig. 7. Dryopteris celsa (Log Fern). Habit, X 1/2. Pinna, X 1. Pinnules, X 5.

7. *Dryopteris filix-mas* (L.) Schott, Gen. Fil. 67. 1834. Fig. 8.

Polypodium filix-mas L. Sp. Pl. 1090. 1753.

Evergreen fern from a woody rootstock; fronds erect, spreading, up to 1 m long, about 1/3 as broad, narrowed at the base, twice pinnate; stipe chaffy; sori closer to the mid-vein than to the margin.

Common Name: Male Fern.

Habitat: Steep, relatively undisturbed northwest-facing slope of a ravine.

Range: Newfoundland to Alaska, south to California, Arizona, northern Illinois, Michigan, and Vermont; Mexico; Greenland; Iceland; Africa.

Illinois Distribution: Cook Co.: Glencoe, 400 feet west of Lake Michigan, December 14, 1979, E. F. Evert 1651, (MORT).

At the Illinois locality, Dryopteris filix-mas grows in association with Acer saccharum, Aralia nudicaulis, Hamelis virginiana, Quercus rubra, and Trillium grandiflorum.

Evert (1980) has given arguments for believing that the Illinois collection of Dryopteris filix-mas is native.

8. *Gymnocarpium robertianum* (Hoffm.) Newm. Phytologist 4:app. xxiv. 1851. Fig. 9.

Polypodium robertianum Hoffm. Deutschl. Fl. 2:20. 1795.

Dryopteris robertiana (Hoffm.) C. Chr. Ind. Fil. 289. 1905.

Deciduous fern from slender, creeping rhizomes; fronds up to 20 cm long, triangular-ovate, glandular, the basal pinnae the largest, the uppermost segments merely pinnatifid; stipes stramineous, not scaly; sori submarginal.

Common Name: Scented Oak Fern.

Habitat: Steep bluff overlooking Carroll Creek.

Range: Newfoundland to Alaska, south to Idaho, Iowa, northern Illinois, and northern Michigan.

Illinois Distribution: Carroll Co.: 1 mile west of Mt. Carroll, July 28, 1980, J. H. Peck 80-572, (U. Wisc., Lacrouse).



Fig. 8. *Dryopteris filix-mas* (Male Fern). Leaf, X 1/3.
Pinna, X 1.



Fig. 9. Gymnocarpium robertianum (Scented Oak Fern). Habit, X 1/3.



Fig. 10. Asplenosorus X herb-wagneri (Wagner's Spleenwort).
Habit, X 1/2.

The collection of this northern species in Illinois extends the range of this fern to the southeast.

9. *Asplenosorus Xherb-wagneri* (Taylor & Mohlenbr.) Mickel, Am. Fern. Journ. 64:119. 1974. Fig. 10.

Asplenium X herb-wagneri Taylor & Mohlenbr. Am. Fern Journ. 67:66. 1977.

Perennial with short-creeping to erect rhizome; scales clathrate; fronds spreading, linear, pinnate below, pinnatifid to crenate-serrate toward the apex, up to 17 cm long, up to 1.8 cm broad, membranaceous, caudate-attenuate at the apex; stipes slender, shiny, black-purple; rachis black-purple below the middle, green toward the apex; pinnae crowded to remote, with up to 15 subopposite or alternate pairs of leaflets, the leaflets suborbiculate to ovate to flabellate, up to 9 mm long, up to 0.9 mm broad, obtuse at the apex, denticulate-serrulate or crenulate, cuneate at the base, with the veins free; sori up to 2.5 mm long; spores abortive.

Common Name: Wagner's Spleenwort.

Habitat: Crevice of chert outcrop.

Range: Union County, Illinois; Martin County, Indiana.

Illinois Distribution: Near McGee Hill Overlook, Pine Hills.

This taxon is reputed to be the hybrid between Asplenosorus pinnatifidum and Asplenium trichomanes. It possesses the distinct lower leaflets of Asplenium trichomanes and the tapering frond of Asplenosorus pinnatifidum. Both parents were found where Asplenosorus X herb-wagneri occurred.

This hybrid was first found at McGee Hill, Union County, Illinois, on October 12, 1967, by W. H. Wagner, Jr., in the company of Robert H. Mohlenbrock, William Hopkins, and Joe Vaughan. Subsequently, it has been found in Martin County, Indiana. Union Co, Ill: Pine Hills, October 12, 1967, W. H. Wagner, Jr. 67024 (MICH).

10. *Asplenosorus Xshawaensis* R. C. Moran, Am. Fern. Jour. 71:87. Fig. 11.

Perennial with short, creeping rhizome; scales clathrate, blackish; fronds low-spreading, tufted, evergreen, to 6 cm long, pinnate below, pinnatifid-crenate at the middle, long-

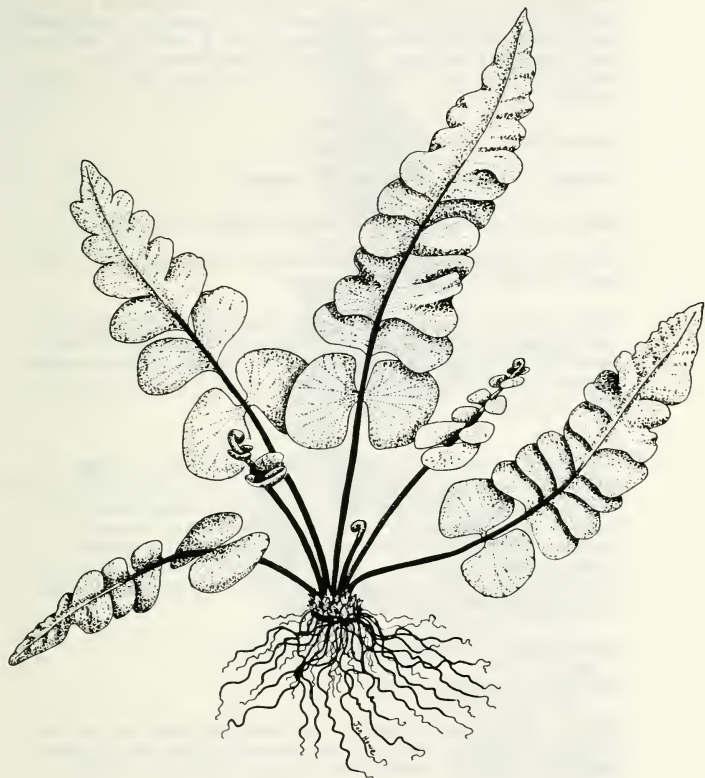


Fig. 11. Asplenosorus X shawneensis (Shawnee Spleenwort).
Habit, X 1.

attenuate at the apex, with the nerves anastomosing at the middle and the apex; basal pinnae 2-4, opposite, overlapping, subglobose to very broadly ovate, up to 1 cm wide, the margins shallowly crenate, the nerves dichotomous, free; rachis dark brown at the base for 1 cm, green above; sori unknown.

Common Name: Shawnee Spleenwort.

Habitat: Crevice of sandstone outcrop.

Range: Known only from Williamson County, Illinois.

Illinois Distribution: East of Devil's Kitchen Lake, October 21, 1979, R. Moran 1269 (MICH).

This taxon is the hybrid between Camptosorus rhizophyllus and Asplenium trichomanes. The long-tapering fronds are reminiscent of the former species, while the separate basal pinnae resemble those of the latter. Both parents occur with the hybrid.

11. *Asplenium trichomanes* L. ssp. *quadrivalens* D. E. Meyer emend. Lovis, Brit. Fern Gaz. 9:155. 1964. Not illustrated. Delicate, evergreen fern with the general appearance of typical A. trichomanes, growing on limestone; scales of rhizomes up to 5 mm long; stipe blackish-brown; fronds once-pinnate, the pinnae mostly opposite, oblong; sori 4-9 (-12), up to 3 mm long; spores 34-43 μ m in diameter; guard cell length 41-49 μ m; tetraploid.

Common Name: Maidenhair Spleenwort.

Habitat: Limestone rocks.

Range: Quebec and Vermont to northern Michigan and north-eastern Wisconsin, south to southwestern Ohio and Virginia; southern Illinois; Washington; Oregon; British Columbia.

Illinois Distribution: Union Co.: Pine Hills, east of Wolf Lake, October 2, 1948, G. S. Winterringer 1934 (ILL).

Moran (1982a) is the most recent author to discuss the Asplenium trichomanes complex, verifying earlier workers' findings that both diploid and tetraploid cytotypes occur in the United States and Canada. Although some morpholog-



Fig. 12. *Cystopteris X illinoensis* (Hybrid Fragile Fern).
Habit, X 1/3. Pinna, X 1 1/4.

ical differences between the diploids and tetraploids can usually be observed in living specimens, the greatest difference exhibited is in spore size, the spores of the tetraploid measuring from 34-43 μm , while those of the diploid measuring somewhat smaller. Moran has also found that the diploid plants are mostly on sandstone, while the tetraploid plants are primarily on limestone.

In Illinois, all populations examined by Moran are the typical diploid cytotype except for a single collection from Union County, where a specimen was found growing on limestone. Interestingly, the Illinois collection is nearly 300 miles from the nearest known station in southwestern Ohio, and approximately 450 miles south of the nearest Wisconsin station.

Because most of the morphological differences exhibited by ssp. quadri-valens are best observed in the field, the tetraploid taxon is not illustrated in this paper.

12. *Cystopteris Xillinoensis* R. C. Moran, Am. Fern Jour. 72: 43. 1982. Fig. 12.

Deciduous fern on calcareous substrate; fronds bipinnate-pinnatifid, up to 50 cm long, some of them long-tapering at the tip, apparently with a few small bulblets; stipes reddish black to brown; spores aborted.

Common Name: Hybrid Fragile Fern.

Habitat: Old quarry.

Range: Known so far only from Illinois.

Illinois Distribution: Winnebago Co.: Old quarry, R. Benedict s.n. (ILL, ILLS, SIU).

Moran (1982b) reports that the collection cited above is a hybrid, with the parents being Cystopteris bulbifera and C. fragilis var. mackayi. Both parents were growing with the hybrid. The fronds of C. X illinoensis are intermediate between those of the two parents.

The only known collection of this hybrid was transplanted by Benedict to his garden in Rockford. The Benedict home has been razed, and the garden no longer exists.

Revisions and Corrections

The following revisions and corrections should be made in the Ferns of Illinois (Mohlenbrock, 1967).

Delete Carroll, Coles, DeWitt, Knox, Sangamon, Warren, and Whiteside records for Equisetum variegatum Schleich.

Delete Cook County record for Lycopodium porophilum Lloyd & Underw.

Delete the following counties for Selaginella apoda, since they are now considered to be for S. eclipes: Cass, Coles, Cook, Fulton, Kane, Kankakee, Lake, McHenry, Peoria, Tazewell, Vermilion, Will.

Recent scanning electron microscope studies of Isoetes spores from Illinois material have revealed that the Shawnee Hills species formerly reported as Isoetes butleri Engelm. is actually Isoetes melanopoda Gay & Dur. (Taylor, Mohlenbrock, & Murphy, 1975).

Delete Jackson County record for Thelypteris noveboracensis.

Additional Records for Taxa Previously Reported from Illinois

Lycopodium porophilum Lloyd & Underw.: LAKE. Lycopodium lucidulum Michx. var. lucidulum: CARROLL, JO DAVIESS, LAKE, RANDOLPH. Lycopodium inundatum L.: OGLE. Lycopodium dendroideum Michx.: COOK, IROQUOIS, SCHUYLER, WINNEBAGO. Lycopodium flabelliforme (Fern.) Blanch. (now L. digitatum A. Braun): CARROLL, CRAWFORD, EDGAR, GALLATIN, JO DAVIESS, JOHNSON, McDONOUGH, RANDOLPH, RICHLAND, SALINE, VERMILION, WILL, WILLIAMSON.

Selaginella apoda (L.) Spring.: JACKSON.

Isoetes melanopoda Gay & Dur.: GALLATIN, HANCOCK, JOHNSON, POPE, SALINE, UNION, WILLIAMSON.

Equisetum variegatum Schleich.: KNOX, SANGAMON, WHITESIDE. Equisetum X nelsonii (A. A. Eaton) Schaffner: LAKE. Equisetum laevigatum A. Br.: CHRISTIAN, CLARK, FORD, HARDIN, JO DAVIESS, KNOX. Equisetum palustre L.: TAZEWEILL. Equisetum X ferrissii Clute: ADAMS, CASS, CHAMPAIGN, CLARK, CUMBERLAND, EDWARDS, FORD, FULTON, HANCOCK, HARDIN, IROQUOIS, JACKSON, JO DAVIESS, MACON, MARSHALL, McHENRY, McLEAN, MENARD, MORGAN,

OGLE, PEORIA, PIATT, SANGAMON, SCHUYLER, STEPHENSON, UNION, VERMILION, WABASH, WHITESIDE. Equisetum X litorale Kuhl: CARROLL, HANCOCK, JO DAVIESS, LEE, WOODFORD. Equisetum pratense Ehrh.: OGLE. Equisetum fluviatile L.: GRUNDY, JO DAVIESS, KANE, KENDALL, STEPHENSON.

Botrychium multifidum (Gmel.) Rupr. ssp. silaifolium (Presl) Clausen: CARROLL, JO DAVIESS, LAKE, STEPHENSON. Botrychium dissectum Spreng. var. dissectum: CARROLL, JO DAVIESS, McDONOUGH, STEPHENSON. Botrychium dissectum Spreng. var. obliquum (Muhl.) Clute: CARROLL, CLARK, COOK, CRAWFORD, DOUGLAS, DuPAGE, JO DAVIESS, KANE, KANKAKEE, McDONOUGH, McHENRY, PEORIA, RICHLAND, WABASH. Botrychium biternatum (Sav.) Underw.: JOHNSON, POPE.

Ophioglossum vulgatum L.: BROWN, CHRISTIAN, CRAWFORD, EDGAR, FRANKLIN, MACON, MONROE, PIATT, ST. CLAIR. Ophioglossum engelmannii Prantl: JACKSON, UNION.

Osmunda regalis L. var. spectabilis (Willd.) Gray: CRAWFORD, JO DAVIESS, JOHNSON. Osmunda cinnamomea L.: CARROLL, GALLATIN, HAMILTON, HARDIN, JACKSON, McDONOUGH, MONROE, RANDOLPH, UNION. Osmunda claytoniana L.: CRAWFORD, GRUNDY, LAKE, RANDOLPH.

Trichomanes boschianum Sturm: HARDIN.

Dennstaedtia punctilobula (Michx.) Moore: OGLE.

Pteridium aquilinum (L.) Kuhn var. latiusculum (Desv.) Underw.: BROWN, COLES, DOUGLAS, GRUNDY, PULASKI, SCHUYLER, WASHINGTON, WAYNE.

Pellaea glabella Mett.: DuPAGE, JACKSON, KANE, KENDALL.

Cheilanthes lanosa (Michx.) D. C. Eaton: MONROE.

Polypodium vulgare L. var. virginianum (L.) Eaton (now P. virginianum L.): CARROLL, CLARK, GRUNDY, JO DAVIESS, McDONOUGH, MONROE. Polypodium polypodioides (L.) Watt var. michauxianum Weatherby: ALEXANDER, RANDOLPH.

Polystichum acrostichoides (Michx.) Schott: CARROLL, COLES, JO DAVIESS, McHENRY.

Onoclea sensibilis L.: BOONE, DuPAGE, JO DAVIESS, KANE, KENDALL, LOGAN, MACON, McHENRY, PIATT, SHELBY, WILL.

Woodwardia areolata (L.) Moore: HARDIN, MASSAC.

Gymnocarpium dryopteris (L.) Newm.: CARROLL, JO DAVIESS, STEPHENSON, WINNEBAGO.

Thelypteris phegopteris (L.) Slosson (now Phegopteris connectilis (Michx.) Watt): McDONOUGH. Thelypteris hexagonoptera (Michx.) Weatherby (now Phegopteris hexagonoptera (Michx.) Fee: DOUGLAS. Thelypteris palustris Schott var. pubescens (Laws.) Fern.: ALEXANDER, DeKALB, GRUNDY.

Dryopteris carthusiana (Villars) H. P. Fuchs: GRUNDY, HANCOCK, KANE, MASON, MASSAC, McDONOUGH, WILL. Dryopteris intermedia (Muhl.) Gray: DuPAGE, MACON, McDONOUGH, PIATT. Dryopteris cristata (L.) Gray: CARROLL, DuPAGE, MASON, McDONOUGH, TAZEWELL, WILL. Dryopteris goldiana (Hook.) Gray: CARROLL, JO DAVIESS, JOHNSON, UNION, WILLIAMSON. Dryopteris marginalis (L.) Gray: CASS.

Athyrium pycnocarpon (Spreng.) Tidestrom: EDGAR, KENDALL, McDONOUGH, WABASH. Athyrium thelypterioides (Michx.) Desv.: CALHOUN, EFFINGHAM, McLEAN, STEPHENSON. Athyrium filix-femina (L.) Roth var. rubellum Gilb. (now A. angustum (Willd.) Presl): CRAWFORD, DOUGLAS, GRUNDY, MASON, MONTGOMERY.

Asplenium rhizophyllum L. (now Camptosorus rhizophyllum (L.) Link): FRANKLIN, HAMILTON, MACOUPIN, WAYNE. Asplenium bradleyi D.C. Eaton: SALINE. Asplenium trichomanes L.: RANDOLPH. Asplenium platyneuron (L.) Oakes: COOK, DuPAGE, GRUNDY, KENDALL, MACON, McHENRY, WILL.

Woodsia obtusa (Spreng.) Torr.: CLINTON, EDGAR, EDWARDS, HAMILTON, LAWRENCE, LOGAN, MADISON, MASON, MERCER, MONTGOMERY, PERRY, STEPHENSON, WASHINGTON, WAYNE, WHITESIDE. Woodsia ilvensis (L.) R. Br.: LaSALLE, LEE.

Cystopteris bulbifera (L.) Bernh.: BOONE, DuPAGE, KANE, KENDALL, McDONOUGH, McHENRY, POPE. Cystopteris fragilis (L.) Bernh. var. fragilis: JACKSON, LEE. Cystopteris fragilis (L.) Bernh. var. mackayi Laws.: CARROLL, JACKSON, JO DAVIESS. Cystopteris X tennesseensis Shaver: ADAMS, BROWN, CALHOUN, CARROLL, CLARK, COOK, DuPAGE, HANCOCK, HARDIN, JACKSON, JERSEY, JO DAVIESS, JOHNSON, KNOX, LaSALLE, LAWRENCE, McDONOUGH, MENARD, MONROE, PEORIA, PIKE, POPE, RANDOLPH, ROCK ISLAND, ST. CLAIR, STEPHENSON, WABASH, WILLIAMSON.

Azolla mexicana Presl: WHITESIDE.

Annotated List of Illinois Ferns

Since publication of Mohlenbrock's Ferns of Illinois (1967) and Mohlenbrock's Guide to the Vascular Flora of Illinois (1975), considerable nomenclatural changes for Illinois taxa of ferns have taken place. The following annotated list of Illinois ferns brings the nomenclature more in line with that recognized by most American pteridologists. For hybrids, the reputed parents are indicated in parentheses. For taxa whose binomials have been changed since publication of Ferns of Illinois (1967), the binomial used in that work is given between square brackets.

Lycopodiophyta

Lycopodiaceae

- Lycopodium clavatum L.
 Lycopodium clavatum L. var. megastachyon Fern. & Bissell
 Lycopodium dendroideum Michx.
 Lycopodium digitatum A. Br. [L. flabelliforme (Fern.) Blanch.]
 Lycopodium inundatum L.
 Lycopodium lucidulum Michx.
 Lycopodium lucidulum Michx. var. tryonii Mohlenbr.
 Lycopodium porophilum Lloyd & Underw.
 Lycopodium Xhabereri House (L. digitatum Xtristachyum)

Selaginellaceae

- Selaginella apoda (L.) Fern.
 Selaginella eclipses Buck
 Selaginella rupestris (L.) Spring.

Isoetaceae

- Isoetes melanopoda Gay & Dur.
 Isoetes engelmannii A. Br.

Equisetophyta

Equisetaceae

- Equisetum arvense L.
 Equisetum fluviatile L.
 Equisetum hyemale L. var. affine (Engelm.) A.A. Eaton
 Equisetum laevigatum A. Br.
 Equisetum palustre L.
 Equisetum pratense Ehrh.

- Equisetum scirpoides* Michx.
Equisetum variegatum Schleich.
Equisetum Xferrissii Clute (*E. hyemale* X *laevigatum*)
Equisetum Xlitorale Kuhl. (*E. arvense* X *fluviatile*)
Equisetum Xnelsonii (A.A. Eaton) Schaffn. (*E. laevigatum* X
variegatum)
Equisetum Xtrachyodon A. Br. (*E. hyemale* X *variegatum*)

Polypodiophyta

Ophioglossaceae

- Botrychium biternatum* (Sav.) Underw.
Botrychium dissectum Spreng. f. *dissectum*
Botrychium dissectum Spreng. f. *obliquum* (Muhl.) Fern.
Botrychium matricariaefolium A. Br.
Botrychium multifidum (Cmel.) Rupr. ssp. *silaifolium* (Presl)
 Clausen
Botrychium oneidense (Gilb.) House
Botrychium simplex E. Hitchc.
Botrychium virginianum (L.) Sw.
Ophioglossum engelmannii Prantl
Ophioglossum vulgatum L. var. *pseudopodium* (Black) Farw.
Ophioglossum vulgatum L. var. *pycnostichum* Fern.

Osmundaceae

- Osmunda cinnamomea* L.
Osmunda claytoniana L.
Osmunda regalis L. var. *spectabilis* (Willd.) Gray

Hymenophyllaceae

- Trichomanes boschianum* (Bosch) Sturm

Adiantaceae

- Adiantum pedatum* [Tourn.] L.
Cheilanthes feei Moore
Cheilanthes lanosa (Michx.) D. C. Eaton
Cryptogramma stelleri (S.G. Gmel.) Prantl
Pellaea atropurpurea (L.) Link
Pellaea glabella Mett. ex Kuhn

Polypodiaceae

- Polypodium polypodioides* (L.) Watt var. *michauxianum* Weatherby
Polypodium virginianum L. [P. *vulgare* L. var. *virginianum* (L.)
 A.A. Eaton]

Dennstaedtiaceae

- Dennstaedtia punctilobula (Michx.) Moore
 Pteridium aquilinum (L.) Kuhn var. latiusculum (Desv.) Underw.
 Pteridium aquilinum (L.) Kuhn var. pseudocaudatum (Clute)
 Heller

Thelypteridaceae

- Phegopteris connectilis (Michx.) Watt [Thelypteris phegopteris
 (L.) Slosson]
 Phegopteris hexagonoptera (Michx.) Fee [Thelypteris hexagonop-
 tera (Michx.) Weatherby]
 Thelypteris noveboracensis (L.) Nieuwl.
 Thelypteris palustris Schott. var. pubescens (Laws.) Fern.

Aspleniaceae

- Asplenium bradleyi D.C. Eaton
 Asplenium platyneuron (L.) BSP.
 Asplenium resiliens Kunze
 Asplenium ruta-muraria L.
 Asplenium trichomanes L. ssp. trichomanes
 Asplenium trichomanes L. ssp. quadrivalens D.E. Meyer emend.
 Lovis
 Asplenosorus Xebenoides (R.R. Scott) Wherry (Asplenium platy-
 neuron X Camptosorus rhizophyllus) [Asplenium Xebenoides
 R.R. Scott]
 Asplenosorus Xgravesii (Maxon) Mickel (Asplenium bradleyi X
 Asplenosorus pinnatifidus) [Asplenium Xgravesii Maxon]
 Asplenosorus Xherb-wagneri (Taylor & Mohlenbr.) Mickel (Asplen-
 ium trichomanes X Asplenosorus pinnatifidus) [Asplenium
 Xherb-wagneri Taylor & Mohlenbr.]
 Asplenosorus Xkentuckiense (McCoy) Mickel (Asplenium platyneuron
 X Asplenosorus pinnatifidus) [Asplenium Xkentuckiense McCoy]
 Asplenosorus Xpinnatifidus (Nutt.) Mickel (Asplenium montanum
 X Camptosorus rhizophyllus) [Asplenium pinnatifidum Nutt.]
 Asplenosorus Xshawneensis Moran (Asplenium trichomanes X
 Camptosorus rhizophyllus)
 Asplenosorus Xtrudellii (Wherry) Mickel (Asplenium montanum X
 Asplenosorus pinnatifidus) [Asplenium Xtrudellii Wherry]
 Athyrium angustum (Willd.) Presl [A. filix-femina (L.) Roth var.
 rubellum Gilb.]
 Athyrium asplenioides Michx. [A. filix-femina (L.) Roth var.
 asplenioides (Michx.) Farw.]
 Athyrium pycnocarpon (Spreng.) Tidestrom
 Athyrium thelypteroides (Michx.) Desv.

- Camptosorus rhizophyllus* (L.) Link [*Asplenium rhizophyllum* L.]
Cystopteris bulbifera (L.) Link
Cystopteris fragilis (L.) Bernh. var. *fragilis*
Cystopteris Xtenuis (Michx.) Desv. [*C. fragilis* (L.) Bernh. var. *mackayi* Laws.] (*C. protrusa* X *reevesiana* Lell.)
Cystopteris protrusa (Weatherby) Blasdell [*C. fragilis* (L.) Bernh. var. *protrusa* Weatherby]
Cystopteris Xillinoensis Moran (*C. bulbifera* X *fragilis* var. *mackayi*)
Cystopteris Xtennesseensis Shaver (*C. bulbifera* X *protrusa*)
Dryopteris celsa (Wm. Palmer) Small
Dryopteris clintoniana (D.C. Eaton) Dowell
Dryopteris cristata (L.) Gray
Dryopteris filix-mas (L.) Schott
Dryopteris goldiana (Hook.) Gray
Dryopteris intermedia (Muhl.) Gray
Dryopteris marginalis (L.) Gray
Dryopteris carthusiana (Villars) H.P. Fuchs
Dryopteris Xboottii (Tuckerm.) Underw. (*D. cristata* X *intermedia*)
Dryopteris Xneo-wherryi W.H. Wagner (*D. goldiana* X *marginalis*)
Dryopteris Xtriploidea Wherry (*D. intermedia* X *carthusiana*)
Gymnocarpium dryopteris (L.) Newm.
Gymnocarpium robertianum (Hoffm.) Newm.
Matteuccia struthiopteris (L.) Todaro var. *pensylvanica* (Willd.) Mart.
Onoclea sensibilis L.
Onoclea sensibilis L. f. *obtusilobata* (Schkuhr) Gilb.
Polystichum acrostichoides (Michx.) Schott
Woodsia ilvensis (L.) R. Br.
Woodsia obtusa (Spreng.) Torr.
Woodwardia areolata (L.) Moore
Woodwardia virginica (L.) Sm.

Azollaceae

- Azolla caroliniana* Willd.
Azolla mexicana Presl

Marsileaceae

- Marsilea quadrifolia* L.

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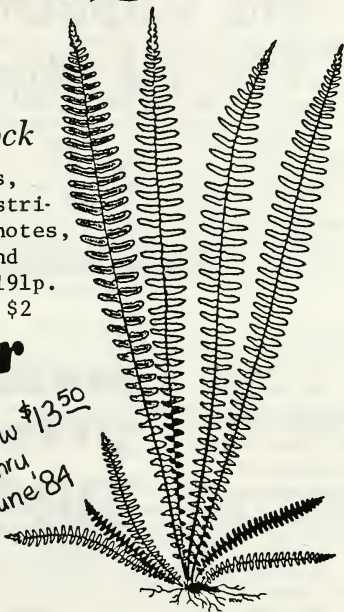
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Nomenclatural Equivalencies in the Illinois Flora

I. Monocots

Robert H. Mohlenbrock

Since this author's publication in 1975 of Guide to the Vascular Flora of Illinois, two works have appeared which attempt to standardize the scientific names of the vascular plants of the United States. Kartesz and Kartesz (1980) published a checklist designed "to account as accurately and completely as possible for the multiplicity of pertinent names of all known native and naturalized vascular plant taxa" in the United States, Canada, and Greenland. After completing their list, they submitted portions of it to more than 250 specialists for their criticism before final publication. In 1982, the Soil Conservation Service published its two-volume National List of Scientific Plant Names, based on information supplied to the Smithsonian Institution by a group of 222 specialists.

Many nomenclatural changes for plants in the Illinois flora were suggested by both of these works as a result of more recent systematic treatment of various plant groups. Not only are there substantial changes from the nomenclature used in 1975 in the Guide to the Vascular Flora of Illinois, the two more recent works by Kartesz and Kartesz and the Soil Conservation Service differ considerably from each other.

In this first article on monocots, the author presents the nomenclatural changes between his work in 1975 and the two later checklists. In the format below, if there is a blank in either columns II or III, it indicates that the nomenclature used in that work is identical with the one used in Guide to the Vascular Flora of Illinois. If the term synonym appears in Column I, it means that the taxon in either or both Columns II and III was considered synonymous and therefore not recognized as valid in the Guide to the Vascular Flora of Illinois.

Column I lists the nomenclature used in Guide to the Vascular Flora of Illinois; Column II lists the nomenclature accepted by Kartesz and Kartesz (1980); Column III enumerates the nomenclature recognized by the Soil Conservation Service (1982).

I	II	III
Najas guadalupensis (Spreng.) Magnus		N. guadalupensis (Spreng.) Morong
Synonym	Potamogeton pusillus L. var. tenuissimus Mert. & Koch	P. pusillus L. var. tenuissimus Mert. & Koch
Potamogeton X hagstromii Benn.	P. X hagstroemii Benn.	P. X hagstroemii Benn.
Potamogeton X spathuliformis (Robbins) Morong	P. X spathuliformis (Robbins) Morong	P. X spathuliformis (Robbins) Morong
Juncaginaceae	Scheuchzeriaceae	
Triglochin maritima L.		T. maritimum L.
Triglochin palustris L.	T. palustre L.	T. palustre L.
Scheuchzeria palustris L. var. americana Fern.	S. palustris L. ssp. americana (Fern.) Hulten	
Echinodorus tenellus (Mart.) Buchenau var. parvulus (Engelm.) Fassett		E. parvulus Engelm.
Echinodorus berteroi (Spreng.) Fassett var. lanceolatus (Wats. & Coult.) Fassett	E. rostratus (Nutt.) Engelm.	E. rostratus (Nutt.) Engelm. var. lanceolatus Engelm. ex Wats. & Coult.
Sagittaria longirostra (Micheli) J.C.Sm.	S. australis (J.C.Sm.) Small	S. engelmanniana J.C.Sm. ssp. longirostra (Micheli) Bogin

- Alisma plantago-aquatica* L.
 var. *americanum* Roem. & Schultes
 I
Alisma subcordatum Raf.
 II
Eloдея densa (Planch.) Caspary
 III
Eloдея canadensis Michx.
 III
 Poaceae
Bromus marginatus Nees
 III
Bromus willdenovii Kunth
 III
Bromus brizaeformis Fisch. & Mey.
 III
Bromus mollis L.
 III
Bromus purgans L.
 III
Bromus pubescens Muhl.
 III
 Syn. of *Bromus ciliatus* L.
 III
Vulpia octoflora (Walt.) Rydb.
 var. *tenella* (Willd.) Fern.
 III
A. plantago-aquatica L. var. *americana* Schultes & Schultes
 III
A. plantago-aquatica L. var. *parviflorum* (Pursh) Torr.
 III
Egeria densa Planch.
 III
E. canadensis L.C. Rich
 III
 Gramineae
 Syn. of *B. carinatus* Hook. & Arn.
B. willdenovii Kunth
 III
B. briziformis Fisch. & Mey.
 III
B. hordaceus L.
 III
B. altissimus Pursh
 III
Bromus pubescens Willd.
 III
B. ciliatus L. var. *intonsus* Fern.
 III
 Syn. of *V. octoflora* (Walt.) Rydb.
 III

I	II	III
<i>Vulpia dertonensis</i> All.	<i>V. bromoides</i> (L.) S.F.Gray	<i>V. bromoides</i> (L.) S.F.Gray
<i>Festuca capillata</i> Lam.	<i>F. tenuifolia</i> Sibth.	<i>F. tenuifolia</i> Sibth.
<i>Festuca ovina</i> L. var. <i>duriuscula</i> (L.) Koch	<i>F. duriuscula</i> L.	
<i>Festuca pratensis</i> Huds.	<i>F. elatior</i> L.	
<i>Festuca obtusa</i> Bieker	<i>F. obtusa</i> Biehler	<i>F. obtusa</i> Biehler
<i>Lolium multiflorum</i> Lam.		<i>L. perenne</i> L. var. <i>multiflorum</i> (Lam.) R. Parnell
<i>Puccinellia distans</i> (L.) Parl.	<i>P. distans</i> (Jacq.) Parl.	
<i>Puccinellia pallida</i> (Torr.) Clausen	<i>Torreyochloa pallida</i> (Torr.) Church	
<i>Poa autumnalis</i> Muhl.	<i>P. autumnalis</i> Ell.	<i>P. autumnalis</i> Ell.
<i>Poa angustifolia</i> L.	<i>P. pratensis</i> L. -ssp. <i>angustifolia</i> (L.) Gaudin	
<i>Koeleria macrantha</i> (Ledeb.) Spreng.	<i>K. cristata</i> (L.) Pers.	<i>K. nitida</i> Nutt.
<i>Aira caryophyllaea</i> L.	<i>A. caryophyllaea</i> L.	<i>A. caryophyllaea</i> L.
<i>Arrhenatherum elatius</i> (L.) Presl	<i>A. elatius</i> J. & C. Presl	<i>A. elatius</i> J. & K. Presl

- Calamagrostis inexpansa Gray
var. breviar (Vasey) Stebbins Mey. & Schreb.
- Calamagrostis epigeios L.
- Agrostis alba L.
- Agrostis alba L. var.
palustris (Huds.) Pers.
- Agrostis tenuis Sibth.
- Cinna latifolia (Trev.)
Griseb.
- Syn. of Elymus arenarius L.
- Elymus hystrix L.
- Elymus hystrix L. var.
bigeloviana (Fern.) Mohlen-
brock
- Elymus virginicus L. var.
glabriformis (Vasey) Bush
- Syn. of Elymus virginicus L.
- C. neglecta (Ehrh.) Gaertn
- A. stolonifera L. var. major
(Gaudin) Farw.
- A. stolonifera L. var. palustris
(Huds.) Farw.
- A. capillaris L.
- C. latifolia (Trev. & Goeppl.)
Griseb.
- E. arenarius L. ssp. mollis
(Trin.) Hulten
- Hystrix patula Moench
- Hystrix patula Moench var.
bigeloviana (Fern.) Deam
- Syn. of E. virginicus L.
- C. epigejos L.
- E. virginicus L. var. hirsutiglumis Hitchc.
- Recognizes both E. hystrix and
H. patula

I	II	III
Syn. of <i>Elymus virginicus</i> L.		<i>E. virginicus</i> L. var. <i>jejunus</i> (Ramaley) Bush
<i>Elymus villosus</i> Muhl. f. <i>arkansanus</i> (Scribn. & Ball) Fern.	Syn. of <i>E. villosus</i> Muhl.	<i>E. villosus</i> Muhl. var. <i>arkansanus</i> Scribn. & Ball
<i>Hordeum brachyantherum</i> Nevski		<i>H. brachyantherum</i> Nevskii
<i>Hordeum X montanense</i> Scribn.	<i>Elyhordeum X montanense</i> (Scribn.) Bowden	<i>Elyhordeum X montanense</i> (Scribn.) Bowden
<i>Agropyron desertorum</i> (Fisch.) Schult.	<i>A. desertorum</i> (Link) Schult.	<i>A. desertorum</i> (Link) Schult.
<i>Agropyron subsecundum</i> (Link) Hitcch.	<i>A. trachycaulum</i> (Link) Lewis var. <i>unilaterale</i> (Vasey) Malte	<i>A. trachycaulum</i> (Link) Lewis var. <i>unilaterale</i> (Vasey) Malte
<i>Agropyron trachycaulum</i> (Link) Malte	<i>A. trachycaulum</i> (Link) Lewis	<i>A. trachycaulum</i> (Link) Lewis
<i>Agropyron smithii</i> Rydb. var. molle (Scribn. & Smith) Jones	Syn. of <i>A. smithii</i> Rydb.	
<i>Melica nitens</i> (Scribn.) Nutt.	<i>M. nitens</i> (Scribn.) Piper	<i>M. nitens</i> (Scribn.) Piper
<i>Glyceria arkansana</i> Fern.		<i>G. septentrionalis</i> Hicks. var. <i>arkansana</i> (Steyserm.) Kucera

- Glyceria striata* (Lam.) Hitchc. Syn. of *G. striata* (Lam.)
var. *stricta* (Scribn.) Fern. Hitchc.
- Glyceria grandis* S. Wats.
- Oryzopsis racemosus* (J.E.Sm.)
Ricker
- Oryzopsis pungens* (Torr.)
Hitchc.
- Diarthrena americana* Beauv.
var. *obovata* Gleason
- Digitaria sanguinalis* (L.)
Scop. var. *ciliaris* (Retz.)
Parl.
- Trichachne insularis* (L.)
Nees
- Leptoloma cognatum* (Schult.)
Chase
- Eriochloa gracilis* (Fourn.)
Hitchc.
- Paspalum pubiflorum* Rupr.
var. *glabrum* (Vasey) Vasey
- G. maxima* (Hartm.) Holmberg
ssp. *grandis* (S. Wats.)
Hulten
- O. racemosus* (J.E.Sm.) Hitchc.
- O. pungens* (Spreng.) Hitchc.
- Syn. of *D. americana* Beauv.
- D. ciliaris* (Retz.) Koel.
- D. insularis* (L.) Mez
- Digitaria cognatum* (Schult.)
Pilger
- E. lemmonii* Vasey & Scribn.
var. *gracilis* (Fourn.) Gould
- P. pubiflorum* Fourn. var.
glabrum Scribn.

I	II	III
Syn. of Paspalum floridanum Michx.	P. floridanum Michx. var. glabratum Vasey	P. floridanum Michx. var. glabratum Vasey
Syn. of Paspalum laeve Michx.	P. laeve Michx. var. circulare (Nash) Fern.	P. laeve Michx. var. circulare (Nash) Fern.
Paspalum lentiferum Lam.	P. praecox Walt.	P. praecox Walt. var. curtisi- anum (Steud.) Vasey
Paspalum ciliatifolium Michx.	P. setaceum Michx. var. ciliatifolium (Michx.) Vasey	P. setaceum Michx. var. ciliatifolium (Michx.) Vasey
Syn. of Paspalum ciliatifolium Michx.	P. setaceum Michx. var. muhlenbergii (Nash) D.Banks	P. setaceum Michx. var. muhlenbergii (Nash) D.Banks
Syn. of Paspalum ciliatifolium Michx.	P. setaceum Michx. var. stramineum (Nash) D.Banks	P. setaceum Michx. var. stramineum (Nash) D.Banks
Paspalum bushii Nash	Syn. of P. setaceum Michx. var. stramineum (Nash) D.Banks	Syn. of P. setaceum Michx. var. stramineum (Nash) D.Banks
Panicum dichotomiflorum Michx. var. geniculatum (Muhi.) Fern. Michx.	Syn. of P. dichotomiflorum var. geniculatum (Wood) Fern.	P. dichotomiflorum Michx. var. geniculatum (Wood) Fern.
Panicum rigidulum Bosc	P. rigidulum Nees	P. rigidulum Nees
Panicum rigidulum Bosc var. condensum (Nash) Mohlenbrock	Syn. of P. rigidulum Nees	Syn. of P. rigidulum Nees
Panicum stipitatum Nash	Syn. of P. rigidulum Nees	Syn. of P. rigidulum Nees

- Panicum hians* Ell.
Panicum depauperatum Muhl.
Panicum perlongum Nash
Panicum linearifolium Scribn.
Panicum linearifolium Scribn.
 var. *wernerii* (Scribn.) Fern.
Panicum laxiflorum Lam.
Panicum microcarpon Muhl.
Panicum nitidum Lam.
Panicum boreale Nash
Panicum dichotomum L.
Panicum dichotomum L. var.
barbulatum (Michx.) Wood
- Dichanthelium depauperatum*
 (Muhl.) Gould
 Syn. of *Dichanthelium linearifolium* (Scribn.) Gould
Dichanthelium linearifolium
 (Scribn.) Gould
 Syn. of *Dichanthelium linearifolium* (Scribn.) Gould
Dichanthelium laxiflorum
 (Lam.) Gould
 Syn. of *Dichanthelium dichotomum* (L.) Gould
 Syn. of *Dichanthelium dichotomum* (L.) Gould
Dichanthelium boreale (Nash)
 Freckmann
Dichanthelium dichotomum (L.)
 Gould
 Syn. of *Dichanthelium dichotomum* L.
- Steinchisma hians* (Ell.) Nash
D. depauperatum (Muhl.) Gould
 Syn. of *D. linearifolium* (Scribn.)
 Gould
D. linearifolium (Scribn.) Gould
 Syn. of *D. linearifolium* (Scribn.)
 Gould
D. laxiflorum (L.) Gould
 Syn. of *D. sphaerocarpon* (Ell.)
 Gould var. *isophyllum* (Scribn.)
 Gould & C. A. Clark
 Syn. of *Dichanthelium dichotomum*
 (L.) Gould
D. boreale (Nash) Freckmann
D. dichotomum (L.) Gould
 Syn. of *D. dichotomum* (L.) Gould

I

Panicum mattamuskeetense
Ashe

Panicum yadkinense Ashe

Panicum meridionale Ashe

Panicum meridionale Ashe var.
albemarlense (Ashe) Fern.

Panicum lanuginosum Ell.

Panicum lanuginosum Ell. var.
implicatum (Scribn.) Fern.

Panicum lanuginosum Ell. var.
lindheimeri (Nash) Fern.

Panicum lanuginosum Ell. var.
septentrionale (Fern.) Fern.

II

Syn. of *Dichanthehium*
dichotomum (L.) Gould

Syn. of *Dichanthehium dichoto-*
mum (L.) Gould

Syn. of *Dichanthehium acumina-*
tum (Sw.) Gould & Clark var.
implicatum (Scribn.) Gould
& Clark

Syn. of *Dichanthehium acuminatum*
(Sw.) Gould & Clark var. im-
plicatum (Scribn.) Gould &
Clark

Dichanthehium acuminatum (Sw.)
Gould & Clark

Dichanthehium acuminatum (Sw.)
Gould & Clark var. *implicatum*
(Scribn.) Gould & Clark

Dichanthehium acuminatum (Sw.)
Gould & Clark var. *lindheimeri*
(Nash) Gould & Clark

Syn. of *Dichanthehium acumina-*
tum (Sw.) Gould & Clark

III

Syn. of *D. dichotomum* (L.) Gould

Syn. of *D. dichotomum* (L.) Gould

Syn. of *D. acuminatum* (Sw.)
Gould & Clark var. *implicatum*
(Scribn.) Gould & Clark

Syn. of *Dichanthehium acuminatum*
(Sw.) Gould & Clark var. im-
plicatum (Scribn.) Gould & Clark

D. acuminatum (Sw.) Gould & Clark

D. acuminatum (Sw.) Gould & Clark
var. *implicatum* (Scribn.) Gould
& Clark

D. acuminatum (Sw.) Gould & Clark
var. *lindheimeri* (Nash) Gould
& Clark

Syn. of *D. acuminatum* (Sw.)
Gould & Clark

Panicum praecocius Hitchc. & Chase

Syn. of *Dichantherium acuminatum* (Sw.) Gould & Clark var. *villosum* (Gray) Gould & Clark

Syn. of *D. acuminatum* (Sw.) Gould & Clark var. *villosum* (Gray) Gould & Clark

Panicum subvillosum Ashe

Syn. of *Dichantherium acuminatum* (Sw.) Gould & Clark

Syn. of *D. acuminatum* (Sw.) Gould & Clark

Panicum villosissimum Nash

Dichantherium acuminatum (Sw.) Gould & Clark var. *villosum* (Gray) Gould & Clark

D. acuminatum (Sw.) Gould & Clark var. *villosum* (Gray) Gould & Clark

Panicum villosissimum Nash var. *pseudopubescens* (Nash) Fern.

Syn. of *Dichantherium acuminatum* (Sw.) Gould & Clark var. *villosum* (Gray) Gould & Clark

Syn. of *D. acuminatum* (Sw.) Gould & Clark var. *villosum* (Gray) Gould & Clark

Panicum scoparioides Ashe

Syn. of *Dichantherium acuminatum* (Sw.) Gould & Clark

Syn. of *D. acuminatum* (Sw.) Gould & Clark

Panicum columbianum Scribn.

Dichantherium sabulorum (Lam.) Gould & Clark var. *thinium* (Hitchc. & Chase) Gould & Clark

D. sabulorum (Lam.) Gould & Clark

Panicum sphaerocarpon Ell.

Dichantherium sphaerocarpon (L.) Gould

D. sphaerocarpon (L.) Gould

Panicum polyanthes Schult.

Dichantherium sphaerocarpon (L.) Gould var. *isophyllum* (Scribn.) Gould & Clark

D. sphaerocarpon (L.) Gould var. *isophyllum* (Scribn.) Gould & Clark

I	II	III
Panicum wilcoxianum Vasey	Dichanthelium oligosanthes (Schult.) Gould var. wilcoxianum (Vasey) Gould & Clark	D. oligosanthes (Schult.) Gould var. wilcoxianum (Vasey) Gould & Clark
Panicum malacophyllum Nash	Dichanthelium malacophyllum (Nash) Gould	D. malacophyllum (Nash) Gould
Panicum oligosanthes Schult.	Dichanthelium oligosanthes (Schult.) Gould	D. oligosanthes (Schult.) Gould
Panicum oligosanthes Schult. var. scribnerianum (Nash) Fern.	Dichanthelium oligosanthes (Schult.) Gould var. scribnerianum (Nash) Gould	D. oligosanthes (Schult.) Gould var. scribnerianum (Nash) Gould
Panicum oligosanthes Schult. var. helleri (Nash) Fern.	Syn. of Dichanthelium oligosanthes (Schult.) Gould var. scribnerianum (Nash) Gould	Disposition unclear
Panicum ravenelii Scribn. & Merr.	Dichanthelium ravenelii (Scribn. & Merr.) Gould	D. ravenelii (Scribn. & Merr.) Gould
Panicum leibergii (Vasey) Scribn.	Dichanthelium leibergii (Vasey) Freckm.	D. leibergii (Vasey) Freckm.
Panicum scoparium Lam.	Dichanthelium scoparium (Lam.) Gould	D. scoparium (Lam.) Gould
Panicum commutatum Schult.	Dichanthelium commutatum (Schult.) Gould	D. commutatum (Schult.) Gould

- Panicum commutatum* Schult.
var. *ashei* Fern.
- Panicum jooii* Vasey
- Panicum clandestinum* L.
- Panicum latifolium* L.
- Panicum boscii* Poir.
- Panicum boscii* Poir. var.
molle (Vasey) Hitchc. &
Chase
- Echinochloa colonum* (L.) Link
- Echinochloa frumentacea* (Roxb.)
Link
- Echinochloa pungens* (Poir.)
Rydb.
- Echinochloa pungens* (Poir.)
Rydb. var. *microstachya*
(Wieg.) Fern. & Griseb.
- Syn. of *Dichantheium commuta-*
tum (Schult.) Gould
- Syn. of *Dichantheium commuta-*
tum (Schult.) Gould
- Dichantheium clandestinum*
(L.) Gould
- Dichantheium latifolium* (L.)
Gould & Clark
- Dichantheium boscii* (Poir.)
Gould & Clark
- Syn. of *Dichantheium boscii*
(Poir.) Gould & Clark
- E. colona* (L.) Link
- E. crus-galli* (L.) Beauv.
var. *frumentacea* (Roxb.)
W. Wight
- E. muricata* (Beauv.) Fern.
- Syn. of *D. commutatatum* (Schult.)
Gould
- Syn. of *D. commutatatum* (Schult.)
Gould
- D. clandestinum* (L.) Gould
- D. latifolium* (L.) Gould
- D. boscii* (Poir.) Gould & Clark
- Syn. of *D. boscii* (Poir.) Gould
& Clark
- E. colona* (L.) Link
- E. crus-galli* (L.) Beauv. var.
frumentacea (Roxb.) W. Wight
- E. muricata* (Beauv.) Fern.
- E. muricata* (Beauv.) Fern. var.
microstachya Wieg.

I

Echinochloa pungens (Poir.)
Rydb. var. *wiegandii* Fassett

Setaria lutescens (Weigel)
Hubb

Sorghum alimum Parodi

Sorghum bicolor (L.) Moench
var. *drummondii* (Nees) Mohl.

Sorghum bicolor (L.) Moench
var. *caffrorum* (Retz.) Mohl.

Sorghum bicolor (L.) Moench
var. *saccharatum* (L.) Mohl.

Syn. of *Andropogon virginicus*
L.

Microstegium vimineum (Trin.)
A. Camus

Eragrostis trichodes (Nutt.)
Wood var. *pillifera* (Scheele)
Fern.

Eragrostis poaeoides Beauv.

Eragrostis neomexicana Vasey

II

E. muricata (Beauv.) Fern.
var. *wiegandii* Fassett

S. glauca (L.) Beauv.

S. alimum L.

S. bicolor (L.) Moench ssp.
drummondii (Steud.) deWet
& Harlan

Syn. of *S. bicolor* (L.) Moench

Syn. of *S. bicolor* (L.) Moench

Not given

Eulalia viminea (Trin.) Kuntze

Syn. of *E. trichodes* (Nutt.)
Wood

E. minor Host

Syn. of *E. mexicana* (Hornem.) Link

III

Syn. of *E. muricata* (Beauv.)
Fern. var. *microstachya* Wieg.

S. glauca (L.) Beauv.

S. X alimum Parodi

Disposition unclear

Disposition unclear

Disposition unclear

A. praematurus Fern.

E. minor Host

Syn. of *E. mexicana* (Hornem.) Link

Eragrostis diffusa Buckl.	Syn. of E. pectinacea (Michx.) Nees	Syn. of E. pectinacea (Michx.) Nees
Eragrostis frankii C.A.Meyer var. brevipes Fassett	Syn. of E. frankii C.A. Meyer	Syn. of E. frankii C.A. Meyer
Muhlenbergia asperifolia (Nees & Meyer) Parodi		M. asperifolia (Trin.) Parodi
Muhlenbergia cuspidata (Torr.) Rydb.		M. cuspidata (Hook.) Rydb.
Muhlenbergia sobolifera (Muhl.) Trin.		M. sobolifera (Willd.) Trin.
Muhlenbergia glabrifloris Scribn.	M. glabriflora Scribn.	M. glabriflora Scribn.
Muhlenbergia sylvatica (Torr.) Torr.	M. sylvatica (Torr.) Gray	M. sylvatica Gray
Sporobolus vaginiflorus (Torr.) Wood	S. vaginiflorus (Gray) Wood	S. vaginiflorus (Gray) Wood
Dactyloctenium aegyptium (L.) Beauv.	.	D. aegyptium (L.) Willd.
Leptochloa attenuata (Nutt.) Steud.	Syn. of L. filiformis (Lam.) Beauv.	L. filiformis (Lam.) Beauv. var. attenuata (Nutt.) Steyerf. & Kucera

I	II	III
Leptochloa fascicularis (Lam.) Gray	Diplachne fascicularis (Lam.) Beauv.	L. fascicularis (Lam.) Gray var. acuminata (Nash) Gleason
Leptochloa acuminata (Nash) Mohlenbr.	Diplachne acuminata Nash	
Leptochloa panicoides (Presl) Hitcch.	Diplachne panicoides (Presl) McNeill	
Bouteloua gracilis (HBK.) Lag.	B. gracilis (HBK.) Steud.	B. gracilis (HBK.) Griffiths
Distichlis stricta (Torr.) Rydb.	D. spicata (L.) Greene var. stricta (Torr.) Scribn.	D. spicata (L.) Greene var. stricta (Torr.) Beetle
Aristida intermedia Scribn. & Ball	Syn. of A. longespica Poir. var. geniculata (Raf.) Fern.	Syn. of A. longespica Poir. var. geniculata (Raf.) Fern.
Aristida necopina Shimmers	A. glauca (Nees) Walp.	Syn. of A. longespica Poir. var. geniculata (Raf.) Fern.
Aristida ramosissima Engelm.	A. ramosissima Gray	A. ramosissima Gray
Aristida basiramea Engelm.	A. basiramea Vasey	A. basiramea Vasey
Arundinaria gigantea (Walt.) Chapm.	A. gigantea (Walt.) Muhl.	A. gigantea (Walt.) Muhl.
Phragmites australis Trin.	P. australis (Cav.) Steud.	P. australis (Cav.) Steud.
Danthonia spicata (L.) Beauv.	D. spicata (L.) Roem. & Schultes	D. spicata (L.) Roem. & Schultes

Cyperus densicaespitosus Mattf.
& Kukenth.

Cyperus flavescens L.

C. flavescens L. var. *poaeiformis* (Pursh) Fern.

Syn. of *Cyperus ovularis*
(Michx.) Torr.

Cyperus grayioides Mohlenbr.

Cyperus filliculmis Vahl var.
macilentus Fern.

Cyperus lancastriensis Porter

Cyperus esculentus L. var.
leptostachyus Boeckl.

Cyperus ferruginescens Boeckl. *C. odoratus* L.

Eleocharis obtusa (Willd.)
Schultes var. *ovata* (Roth)
Drap. & Mohlenbr.

Eleocharis wolffii (Gray)
Patterson

Eleocharis tenuis (Willd.)
Schult. var. *verrucosa*
(Svenson) Svenson

E. verrucosa (Svenson) L.
Harms

E. wolffii Gray

E. wolffii (Gray) Britt.

C. tenuifolius (Steud.) Dandy

C. flavescens L. var. *poaeiformis*
(Pursh) Fern.

C. ovularis (Michx.) Torr. var.
sphaericus Boeckl.

Not mentioned

Syn. of *C. filliculmis* Vahl

C. lancastriensis Gray

Not mentioned

E. ovata (Roth) Roem. & Schultes

I	II	III
Eleocharis elliptica Kunth		<i>E. tenuis</i> (Willd.) Schultes var. <i>borealis</i> (Svenson) Gleason
Eleocharis elliptica Kunth var. <i>compressa</i> (Sull.) Drap. & Mohlenbr.	Syn. of <i>E. elliptica</i> Kunth	<i>E. compressa</i> Sull.
Eleocharis intermedia (Muhl.) Schultes	<i>E. intermedia</i> Schultes	<i>E. intermedia</i> Schultes
Fimbristylis puberula (Michx.) Vahl var. <i>drummondii</i> (Boeckl.) Vahl Ward	Syn. of <i>F. puberula</i> (Michx.) Vahl	<i>F. caroliniana</i> (Lam.) Fern.
Fimbristylis baldwiniana (Schultes) Torr.	<i>F. annua</i> (All.) Roem. & Schultes	<i>F. annua</i> (All.) Roem. & Schultes
Fuirena scirpoides Michx.	<i>F. scirpoides</i> Michx.	<i>F. scirpoides</i> Michx.
Scirpus acutus Muhl.	<i>S. acutus</i> Bigel.	<i>S. acutus</i> Bigel.
Scirpus validus Vahl	<i>S. tabernaemontani</i> K.C.Gmel	
Scirpus micranthus Vahl	<i>Hemicarpha micrantha</i> (Vahl) Britt.	<i>H. micrantha</i> (Vahl) Pax
Scirpus micranthus Vahl var. <i>drummondii</i> (Nees) Mohlenbr.	<i>Hemicarpha drummondii</i> Nees	<i>H. drummondii</i> Nees
Scirpus paludosus A.Nels.	<i>S. maritimus</i> L.	<i>S. robustus</i> Pursh

Scirpus microcarpus Presl		
Scirpus cespitosus L. var. callosus Bigel.	Syn. of <i>S. caespitosus</i> L.	<i>S. microcarpus</i> J. & K. Presl Syn. of <i>S. cespitosus</i> L.
Eriophorum viridi-carinatum (Engelm.) Fern.	<i>E. viridicarinatum</i> (Engelm.) Fern.	<i>E. viridicarinatum</i> (Engelm.) Fern.
Rhynchospora macrostachya Torr, R. macrostachya Gray		
Scleria pauciflora Muhl.	<i>S. pauciflora</i> Willd.	<i>S. pauciflora</i> Willd.
Scleria verticillata Muhl.	<i>S. verticillata</i> Willd.	<i>S. verticillata</i> Willd.
Carex stenophylla Mahlenb. var. <i>enervis</i> (C.A.Mey.) Kuentz.		Syn. of <i>C. eleocharis</i> L.H. Bailey
Carex foenea Willd. var. <i>enervis</i> Evans & Willd.	Not mentioned	Not mentioned
Carex retroflexa Muhl.	<i>C. retroflexa</i> Willd.	<i>C. retroflexa</i> Willd.
Carex texensis (Torr.) Bailey	<i>C. retroflexa</i> Willd. var. <i>texensis</i> (Torr.) Fern.	
Carex convoluta Mack		<i>C. flaccidula</i> Steud.
Carex rosea Schk.	<i>C. rosea</i> Willd.	<i>C. flaccidula</i> Steud.
Carex cephalophora Muhl.	<i>C. cephalophora</i> Willd.	<i>C. cephalophora</i> Willd.

I

- Carex muhlenbergii Schk.
 Carex austrina (Small) Mack.
 Carex cephaloidea Dewey
 Carex sparganioides Muhl.
 Carex annectens Bickn.
 Carex annectens Bickn. var.
 xanthocarpa (Bickn.) Wieg.
 Carex stipata Muhl.
 Carex crus-corvi Shuttlew.
 Carex bromoides Schk.
 Carex incompta Bickn.
 Carex scoparia Schk.
 Carex richii (Fern.) Mack.
 Carex bebbii Olney
 Carex festucacea Schk.

II

- C. muhlenbergii Willd.
 C. austrina Mack.
 C. cephaloidea (Dewey) Dewey
 C. sparganioides Willd.
 C. annectens (Bickn.) Bickn.
 Syn. of C. annectens (Bickn.)
 Bickn.
 C. stipata Willd.
 C. crus-corvi Kunze
 C. bromoides Willd.
 C. atlantica Bailey var.
 incompta (Bickn.) F.J.
 Hermann
 C. scoparia Willd.
 C. straminea Willd.
 C. bebbii (Bailey) Fern.
 C. festucacea Willd.

III

- C. sparganioides Willd.
 C. annectens (Bickn.) Bickn.
 C. annectens (Bickn.) Bickn. var.
 xanthocarpa (Kukenth.) Wieg.
 C. stipata Willd.
 C. crus-corvi Kunze
 C. atlantica Bailey var.
 incompta (Bickn.) F.J.
 Hermann
 C. scoparia Willd.
 Not mentioned
 C. bebbii (Bailey) Fern.
 C. festucacea Willd.

I	II	III
<i>Carex cumulata</i> (Bailey) Mack.	<i>C. cumulata</i> (Bailey) Fern.	
<i>Carex brevior</i> (Dewey) Mack.	<i>C. brevior</i> (Dewey) Lunell	<i>C. brevior</i> (Dewey) Lunell
<i>Carex molesta</i> Mack.		<i>C. X molesta</i> Mack.
<i>Carex alata</i> Torr. & Gray	<i>C. alata</i> Torr.	<i>C. X alata</i> Torr.
<i>Carex pensylvanica</i> Lam. var. <i>distans</i> Peck		Syn. of <i>C. heliophila</i> Mack.
<i>Carex abdita</i> Bickn.	Syn. of <i>C. umbellata</i> Schk.	Syn. of <i>C. umbellata</i> Schk.
<i>Carex pedunculata</i> Muhl.	<i>C. pedunculata</i> Willd.	<i>C. pedunculata</i> Willd.
<i>Carex crinita</i> Lam. var. <i>brevicrinis</i> Fern.	Syn. of <i>C. crinita</i> Lam.	Syn. of <i>C. crinita</i> Lam.
<i>Carex substricta</i> (Kukenth.) Mack.	<i>C. aquatilis</i> Wahl.	<i>C. aquatilis</i> Wahl.
Syn. of <i>Carex stricta</i> Lam.	<i>C. stricta</i> Lam. var. <i>strictior</i> (Dewey) Carey	<i>C. stricta</i> Lam. var. <i>strictior</i> (Dewey) Carey
<i>Carex virescens</i> Muhl.	<i>C. virescens</i> Willd.	<i>C. virescens</i> Willd.
<i>Carex sprengelii</i> Dewey	<i>C. sprengelii</i> Spreng.	<i>C. sprengelii</i> Spreng.
<i>Carex granularis</i> Muhl.	<i>C. granularis</i> Willd.	<i>C. granularis</i> Willd.
<i>Carex conoidea</i> Schk.	<i>C. conoidea</i> Willd.	

I	II	III
Carex conoidea Schk.	C. conoidea Willd.	
Syn. of Carex amphibola Steud.	C. amphibola Steud. var. rigida (Bailey) Fern.	C. amphibola Steud. var. rigida (Bailey) Fern.
Carex grisea Wahl.	C. amphibola Steud. var. tur- gida Fern.	C. amphibola Steud. var. tur- gida Fern.
Carex glaucodea Tuckerm.	C. flaccosperma Dewey var. glaucodea (Tuckerm.) Kukenth.	
Carex oligocarpa Schk.	C. oligocarpa Willd.	
Carex careyana Torr.	C. careyana Dewey	
Carex X fulleri Ahles	Not mentioned	Not mentioned
Carex trichocarpa Muhl.	C. trichocarpa Schk.	C. trichocarpa Willd.
Carex hystericina Muhl.	C. hystericina Willd.	C. hystericina Willd.
Syn. of Carex grayi Carey		C. grayi Carey var. hispida Gray
Carex lupulina Muhl.	C. lupulina Willd.	C. lupulina Willd.
Carex lupuliformis Sartwell	C. lupuliformis Dewey	C. lupuliformis Dewey
Carex rostrata Stokes var. utriculata (Boott) Bailey		Syn. of C. rostrata Stokes

- | | |
|---|---|
| Carex tuckermanii Boott | C. tuckermanii Dewey |
| Acorus calamus L. | A. americanus (Raf.) Raf. |
| Symplocarpus foetidus (L.)
Nutt. | S. foetidus (L.) Salisb. |
| Peltandra virginica (L.)
Kunth | P. virginica (L.) Schott |
| Arisaema triphyllum (L.)
Schott var. pusillum Peck | A. triphyllum (L.) Schott var.
pusillum (Peck) Huttlest. |
| Spirodela oligorhiza (Kurtz)
Hegelm. | S. punctata (Mey.) C.H.Thomp-
son |
| Lemna minima Phil. | L. minima HBK. |
| Wolffiella floridana (J.D.Sm.)
Thompson | W. gladiata (Hegelm.)
Hegelm. |
| Wolffia papulifera Thompson | W. braziliensis Weddell |
| Tradescantia bracteata Small | |
| Syn. of Commelina erecta L. | C. erecta L. var. angusti-
folia (Michx.) Fern. |
| Syn. of Commelina erecta L. | C. erecta L. var. deamiana
Fern. |
| | T. bracteata Britt. & A.Br. |
| | C. erecta L. var. angustifolia
(Michx.) Fern. |
| | C. erecta L. var. deamiana Fern. |

I	II	III
Zosterella dubia (Jacq.) Small	Heteranthera dubia (Jacq.) Small	
Luzula multiflora (Retz.) Lej.		L. multiflora (Hoffm.) Lej.
Luzula multiflora (Retz.) Lej. var. echinata (Small) Mohlenbr.	L. echinata (Small) F.J. Hermann	L. echinata (Small) F.J. Hermann
Syn. of Luzula multiflora (Retz.) Lej.	L. bulbosa (Wood) Rydb.	L. bulbosa (Wood) Rydb.
Juncus bufonius L. var. con- gestus Wahlent.		Syn. of J. bufonius L.
Juncus dudleyi Wieg.	J. tenuis Willd. var. uniflorus (Farw.) Farw.	J. tenuis Willd. var. dudleyi (Wieg.) F.H.Hermann
Veratrum woodii Robbins		Melanthium woodii (Wood) Bodkin
Zigadenus glaucus Nutt.	Z. venenosus S. Wats. var. gramineus (Rydb.) M.E.Peck	
Syn. of Stenanthium gramineum (Ker) Morong		S. gramineum (Ker) Morong var. robustum (S. Wats.) Fern.
Lilium lancifolium Thunb.		Not mentioned

Lilium michiganense Farw.

Lilium superbum L.

Hemerocallis fulva L.

Hemerocallis lilio-asphodelus
L.

Muscari comosum (L.) Mill.

Muscari atlanticum Boiss.
& Reut.

Muscari armeniacum Leicht.

Camassia angusta (Engelm. &
Gray) Blankinship

Erythronium americanum Ker

Polygonatum commutatum
(Schult.) A. Dietr.

Allium tricoccum Ait. var.
burdickii Hanes

H. fulva (L.) L.

Syn. of *C. scilloides* (Raf.)
Cory

P. biflorum (Walt.) Ell.
var. *commutatum* (Schult. f.)
Morong

A. burdickii (Hanes) A.G.
Jones

L. canadense L. ssp. *michiganense*
(Farw.) B. Boivin & Cody

Syn. of *L. canadense* L. ssp.
michiganense (Farw.) B. Boivin
& Cody

H. fulva (L.) L.

H. lilioasphodelus L.

M. comosum Mill.

M. racemosum (L.) Mill.

Syn. of *M. racemosum* (L.) Mill.

Syn. of *C. scilloides* (Raf.)
Cory

E. umbilicatum C.R. Parks & Hardin
P. commutatum (Schult. & Schult.)
A. Dietr.

Not mentioned

I	II	III
Allium mutabile Michx.	A. canadense L. var. mobilese (Regel) Ownbey	Syn. of A. canadense L.
Nothoscordum bivalve (L.) Britt.		Allium bivalve (L.) Kuntze
Trillium cernuum L. var. macranthum Eames & Wieg.		Syn. of T. cernuum L.
Yucca filamentosa L. var. smalliana (Fern.) Ahles	Y. flaccida Haw.	
Narcissus pseudo-narcissus L.	N. pseudonarcissus L.	N. pseudonarcissus L.
Hymenocallis occidentalis (LeConte) Kunth	H. caroliniana (L.) Herbert	
Polygonum virginica (L.) Shinners	Manfreda virginica (L.) Rose	M. virginica (L.) Rose
Smilax bona-nox L. var. hederaefolia (Beyrich) Fern.	Syn. of S. bona-nox L.	Syn. of S. bona-nox L.
Smilax hispida Muhl.		S. hispida Torr.
Smilax illinoensis Mangaly	S. illinoensis Mangaly	Disposition unclear
Smilax ecirrata (Engelm.) S. Wats.	S. echirrata (Kunth) S.Wats.	S. ecirrata (Kunth) S.Wats.

I	II	III
Syn. of <i>Dioscorea quaternata</i> (Walt.) J.F.Gmel.		<i>D. quaternata</i> (Walt.) J.F.Gmel. var. <i>glauca</i> Fern.
Syn. of <i>Dioscorea villosa</i> L.	<i>D. villosa</i> L. var. <i>glabrifolia</i> (Bartl.) Fern.	
<i>Iris germanica</i> L.	<i>I. X germanica</i> L.	<i>I. X germanica</i> L.
<i>Iris shrevei</i> Small	<i>I. virginica</i> L. var. <i>shrevei</i> (Small) E. Anders.	
<i>Iris cristata</i> Ait.	<i>I. cristata</i> Soland.	
<i>Gladiolus X colvillei</i> Sweet		Not mentioned
<i>Sisyrinchium montanum</i> Greene var. <i>crebrum</i> Fern.		Syn. of <i>S. montanum</i> Greene
<i>Cypripedium calceolus</i> L. var. <i>parviflorum</i> (Salisb.) Fern.	<i>C. parviflorum</i> Salisb.	
<i>Cypripedium calceolus</i> L. var. <i>pubescens</i> (Willd.) Correll	<i>C. pubescens</i> Willd.	
<i>Cypripedium candidum</i> Muhl.	<i>C. candidum</i> Willd.	<i>C. candidum</i> Willd.
<i>Orchis spectabilis</i> L.	<i>Galearis spectabilis</i> (L.) Raf.	<i>G. spectabilis</i> (L.) Raf.
<i>Habenaria orbiculata</i> (Pursh) Torr.	<i>Platanthera orbiculata</i> (Pursh) Lindl.	<i>P. orbiculata</i> (Pursh) Lindl.

I	II	III
Habenaria hookeri Torr.	Platanthera hookeri (Torr.) Lindl.	P. hookeri (Torr.) Lindl.
Habenaria clavellata (Michx.) Spreng.	Platanthera clavellata (Michx.) Luer	P. X clavellata (Michx.) Luer
Habenaria viridis (L.) R.Br. var. bracteata (Muhl.) Gray	Coeloglossum viride (L.) Hartm. var. virescens (Willd.) Luer	C. viride (L.) Hartm. var. virescens (Willd.) Luer
Habenaria flava (L.) R.Br.	Platanthera flava (L.) Lindl.	P. flava (L.) Lindl.
Habenaria flava (L.) R.Br. var. herbiola (R.Br.) Ames & Correll	Platanthera flava (L.) Lindl. var. herbiola (R.Br.) Luer	P. flava (L.) Lindl. var. herbiola (R.Br.) Luer
Habenaria hyperborea (L.) R.Br. var. huronensis (Nutt.) Farw.	Platanthera hyperborea (L.) Lindl. var. huronensis (Nutt.) Luer	P. hyperborea (L.) Lindl. var. huronensis (Nutt.) Luer
Habenaria dilatata (Pursh) Hook.	Platanthera dilatata (Pursh) Beck	P. dilatata (Pursh) Beck
Habenaria ciliaris (L.) R.Br.	Platanthera ciliaris (L.) Lindl.	P. ciliaris (L.) Lindl.
Habenaria blephariglottis (Willd.) Hook.	Platanthera blephariglottis (Willd.) Lindl.	P. blephariglottis (Willd.) Lindl.
Habenaria lacera (Michx.) Lodd.	Platanthera lacera (Michx.) G. Don	P. lacera (Michx.) G. Don

- Habenaria leucophaea (Nutt.) Gray
 Habanaria peramoena Gray
 Habanaria psycodes (L.) Spreng.
 Liparis liliifolia (L.) Rich.
 Malaxis monophylla (L.) Sw. var. brachypoda (Gray) F. Morris
 Spiranthes gracilis (Bigel.) Beck
 Spiranthes tuberosa Raf.
 Pogonia ophioglossoides (L.) Ker
 Corallorhiza maculata Raf.
 Corallorhiza wisteriana Conrad
 Aplectrum byemale (Muhl.) Torr.
- Platanthera leucophaea (Nutt.) Lindl.
 Platanthera peramoena (Gray) Gray
 Platanthera psycodes (L.) Lindl.
 L. liliifolia (L.) Lindl.
 M. brachypoda (Gray) Fern.
 S. lacera (Raf.) Raf. var. gracilis (Bigel.) Luer
 S. grayi Ames
 P. ophioglossoides (L.) Juss.
 C. maculata (Raf.) Raf.
 A. byemale (Willd.) Nutt.
- P. leucophaea (Nutt.) Lindl.
 P. peramoena Gray
 P. psycodes (L.) Lindl.
 L. liliifolia (L.) Ker
 M. monophyllos (L.) Sw. var. brachypoda (Gray) F. Morris
 Syn. of S. gracilis (Bigel.) Beck
 S. grayi Ames
 P. ophioglossoides (L.) Juss.
 C. maculata (Raf.) Raf.
 C. wisteriana Conrad
 A. byemale (Willd.) Torr.

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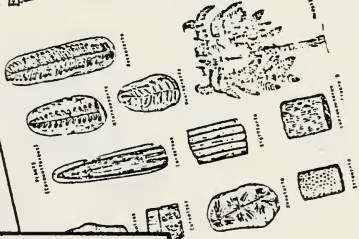
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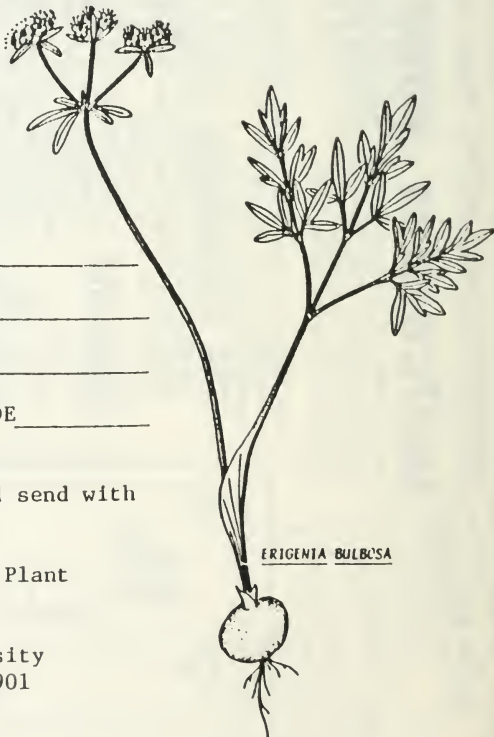
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