ADDITIONAL FERN, FERN-ALLIES AND MONOCOTS TO THE FLORA OF COLES COUNTY, ILLINOIS

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ABSTRACT.—An examination of the herbarium of Eastern Illinois University and collections by the author and students during the last three years has yielded 89 species of ferns, fern-allies and monocots not previously recorded for Coles County, Illinois. This increases the total number of ferns and fern-allies to 24 species and the total monocots to 222 species for the area.

The total reported fern and fern-allies for Coles County was 15 species while the count for the monocots was 142 according to the data compiled by Jones and Fuller (1955) and Winterringer and Evers (1960).

This study revealed 9 new county records of ferns and fern-allies and 80 new monocots. This present increase resulted from recent collections by the author and students during the last three years, as well as from previously unreported collections in the Eastern Illinois University herbarium. Many of the ferns and Cyperaceae reported here were recently annotated by Robert H. Mohlenbrock of Southern Illinois University.

Some of the early collections date to 1911, and recent attempts to relocate some of these species have been unsuccessful. In particular, many of the collections by H. C. Sampson represent the only specimens of these species collected from Coles County. Many of the other species, however, are common, but have been previously overlooked.

The species followed by an asterisk were previously reported as occurring in Coles County by Phipps and Speer (1958) but were not incorporated into the checklist of Winterringer and Evers (1960). All of these specimens were collected in a hillside marsh 3½ miles east of Charleston, Illinois. A re-evaluation of the collection of Phipps and Speer revealed that of the 13 new records they reported, 3 of the specimens were identified incorrectly. Their *Bromus racemosa* is a small specimen of the common *Bromus commutatus* while their specimen labeled *Carex lacustris* is *Carex hyalinolepis*, which is a new record for Coles County, and *Cyperus diandrus* should be referred to the already reported *Cyperus rivularis*.

The checklist which follows contains the 89 vascular plants that have not been recorded previously for Coles County. Each species is followed by a brief note concerning the habitat in which it was collected, the collector's name, and field number. All specimens are deposited in the herbarium of Eastern Illinois University.

The order of plant families and the nomenclature is that of Jones (1963).

EQUISETACEAE

Equisetum hyemale L.* Edge of stream in woods; *Phipps & Speer 349.*

Equisetum variegatum Schleich. Moist soil at edge of railroad; *J. L. Burns 278.*

OPHIOGLOSSACEAE

Botrychium dissectum Spreng. Dry rocky woods; *C. B. Arzeni s.n.*

Ophioglossum vulgatum L. Open woods; *K. E. Damann s.n.*

OSMUNDACEAE

Osmunda claytoniana L. Moist woods; *P. M. Sargent s.n.*

POLYPODIACEAE

Athyrium angustum (Willd.) Presl. Moist woods; *K. Becker s.n.*

Athyrium thelypterioides (Michx.) Desv. Moist woods; *W. C. Whiteside s.n.*

Camptosorus rhizophyllus (L.) Link Moist rocky ledge; *K. Becker s.n.*

MARSILEACEAE

Marsilea quadrifolia L. Introduced into EIU campus pond and persisting; *J. E. Ebinger 6839.*

ALISMACEAE

Sagittaria cuneata Sheld. Shore of lake; *H. F. Thut s.n.*

Sagittaria latifolia Willd.* Hillside marsh; *Phipps & Speer 421.*

POTAMOGETONACEAE

Potamogeton crispus L. Submerged; *H. F. Thut s.n.*

LILIACEAE

Allium sativum L. Moist soil near lake; *E. W. Potter 38.*

Asparagus officinalis L. Edge of railroad; *J. L. Burns 118.*

Erythronium americanum Ker. Moist woods; *H. C. Sampson 480.*

Lilium michiganense Farw. Dry woods; *Thut, Pixley & McGinnis s.n.*

Lilium umbellatum Pursh. Edge of railroad; *E. L. Stover s.n.*

Ornithogalum umbellatum L. *Thut & Stover s.n.*

Smilax lasioneura Hook. Woods; *Thut, Pixley & McGinnis s.n.*

JUNCACEAE

Juncus biflorus Ell. Edge of pond; *J. E. Ebinger 5804.*

Juncus nodatus Coville. Edge of pond; *H. C. Sampson 548.*

Luzula bulbosa (Wood) Rydb. Dry woods; *E. L. Stover s.n.*

AMARYLLIDACEAE

Hypoxis hirsuta (L.) Coville. Dry woods; *E. L. Stover s.n.*

IRIDACEAE

Iris shrevei Small.* Hillside marsh; *Phipps & Speer 348.*

HYDROCHARITACEAE

Elodea occidentalis (Pursh) St. John. Submerged; *J. E. Ebinger 5872.*

ORCHIDACEAE

Goodyera pubescens (Willd.) R. Br. Moist woods; *B. Leonard s.n.*

Spiranthes cernua (L.) Rich. Meadow; *H. F. Thut s.n.*

ARACEAE

Acorus calamus L. Swamp; *R. Reat s.n.*

LEMNACEAE

Lemna minor L. Mud flats of lake; *J. E. Ebinger 6766.*

TYPHACEAE

Typha angustifolia L. Swamp at edge of railroad; *J. E. Ebinger 6791.*

Typha latifolia L.* Swamp at edge of railroad; *J. E. Ebinger 6792.*

SPARGANIACEAE

Sparganium eurycarpum Engelm. Edge of pond; *E. L. Stover s.n.*

CYPERACEAE

Bulbostylis capillaris (L.) C. B. Clarke. Edge of railroad; *J. E. Ebinger 4210.*

Carex albolutescens Schw. Edge of pond; *J. W. Sij 47.*

Carex bicknellii Britt. Prairie at edge of railroad; *H. C. Sampson 216.*

Carex brevior (Dewey) Mack. Edge of railroad; *E. L. Stover s.n.*

Carex convoluta Mack. Dry woods; *W. C. Whiteside s.n.*

Carex grayii Carey. Wet woods near lake; *J. E. Ebinger 4387.*

Carex hyalinolepis Steud. Hillside marsh; *Phipps & Speer 389.*

Carex hystricina Muhl.* Hillside marsh; *Phipps & Speer s.n.*

Carex muhlenbergii Schk.* Hillside marsh; *Phipps & Speer 363.*

Carex normalis Mack. Edge of railroad; *J. E. Ebinger 4358.*

Carex retroflexa Muhl. Dry woods; *H. F. Thut s.n.*

Carex shortiana Dewey.* Moist woods; *Phipps & Speer 354.*

Carex sparganioides Muhl. Edge of railroad; *E. L. Stover s.n.*

Carex stricta Lam. Edge of stream; *E. L. Stover s.n.*

Carex tenera Dewey. Prairie at edge of railroad; *H. C. Sampson 213.*

Cyperus acuminatus Torr. & Hook. Edge of railroad; *E. L. Stover s.n.*

Cyperus aristatus Rottb. Moist sand near stream; *J. E. Ebinger 5081.*

Cyperus densicaespitosus Mattf. & Kukenth. Sand shore of river; *H. C. Sampson 146.*

Cyperus erythrorhizos Muhl. Mud flats at edge of lake; *J. E. Ebinger 5122.*

Cyperus ferruginescens Boeck. Edge of lake; *E. L. Stover s.n.*

Cyperus flavescens L. Sandy shore of river; *H. C. Sampson 145.*

Dulichium arundinaceum (L.) Britt. Edge of river; *H. Hoffman s.n.*

Eleocharis obtusa (Willd.) Schult. Edge of pond; *J. E. Ebinger 4666.*

Eleocharis palustris (L.) R. & S. Moist soil near railroad; *H. C. Sampson 153.*

Eleocharis tenuis (Willd.) Schult. Moist soil near railroad; *E. L. Stover s.n.*

Fimbristylis autumnalis (L.) R. & S. Sandy shore of river; *H. C. Sampson s.n.*

Hemicarpha micrantha (Vahl) Pax. Sandy shore of river; *J. E. Ebinger 5083.*

Scirpus americanus Pers. Edge of stream; *H. C. Sampson 168.*

Scirpus fluviatilis (Torr.) Gray. Edge of lake; *J. E. Ebinger 5429.*

GRAMINEAE

Aegilops cylindrica Host. Edge of railroad; *J. E. Ebinger 5787.*

Agropyron smithii Rydb. Edge of railroad; *J. E. Ebinger 5717.*

Bouteloua curtipendula (Michx.) Torr. Edge of railroad; *W. C. Whiteside s.n.*

Brachyelytrum erectum (Schreb.) Beauv. Moist woods; *J. E. Ebinger; 5846.*

Bromus japonicus Thunb. Gravel pit; *W. E. McClain 119.*

Calamagrostis canadensis (Michx.) Beauv. Moist prairie; *H. C. Sampson 376.*

Diarrhena americana Beauv. Wet woods; *E. L. Stover s.n.*

Digitaria ischaemum (Schreb.) Muhl. Bank of river; *J. E. Ebinger 4203.*

Eragrostis frankii C. A. Mey. Edge of lake; *E. L. Stover s.n.*

Eragrostis hypnoides (Lam.) BSP. Edge of lake; *J. E. Ebinger 4208.*

Eragrostis pectinacea (Michx.) Nees. Field; *J. E. Ebinger 5857.*

Festuca ovina L. Open woods; *H. F. Thut s.n.*

Leersia lenticularis Michx. Edge of lake; *E. L. Stover s.n.*

Lolium perenne L. Field; *J. E. Ebinger 5833.*

Muhlenbergia sylvatica Torr. Moist woods; *C. R. Leathers s.n.*

Panicum boscii Poir. Woods; *E. W. Potter 96.*

Panicum leibergii (Vasey) Scribn. Edge of railroad; *H. C. Sampson 442.*

Panicum oligosanthes Schult. Edge of railroad; *J. E. Ebinger 6108.*

Paspalum geminum Nash. Edge of road; *J. E. Ebinger 6050.*

Paspalum ciliatifolium Michx. Edge of road; *E. W. Potter 175.*

Phalaris arundinacea L. Edge of lake; *J. E. Ebinger 5843.*

Phragmites communis Trin. Edge of railroad; *J. L. Burns 126.*

Secale cereale L. Edge of road; *J. E. Ebinger 5431.*

Sporobolus heterolepis Gray. Edge of railroad; *J. E. Ebinger 4215.*

Sporobolus neglectus Nash. Edge of railroad; *E. L. Stover s.n.*

Sporobolus vaginiflorus (Torr.) Wood. Edge of railroad; *J. E. Ebinger 4214.*

Triticum aestivum L. Edge of road; *J. E. Ebinger 4440.*

Uniola latifolia Michx. Edge of lake; *J. E. Ebinger 4238.*

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Manuscript received January 12 1967.