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Notes on the Flora of Northeastern Iowa

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NOTES ON THE FLORA OF NORTHEASTERN IOWA.

BY T. J. FITZPATRICK.

The following notes are the result of a series of studies made during the summer of 1895 when the writer passed down the Upper Iowa river from Decorah to its mouth and thence down the Mississippi river to Muscatine, examining enroute the floras of Winneshiek, Allamakee, Clayton, Dubuque, Jackson, Clinton and Scott counties. Much field work was done by collecting specimens and taking notes. The writer received aid subsequently in the examination of a collection from Winneshiek county made by Herbert Goddard of Decorah, Iowa. All the rare or infrequent species mentioned in the following list are represented in my herbarium. Those common as *Quercus alba*, *Ulmus americana*, *Populus monilifera*, *Xanthium canadense*, etc., are not represented by specimens from all the localities given.

The difficult species have been carefully compared with specimens in the herbarium of the State University of Iowa, or submitted to competent botanists. The sedges were determined by R. I. Cratty, the grasses by F. Lamson-Scribner, and miscellaneous species by the officers of the Missouri Botanical Garden at St. Louis. The writer hopes the following notes may be beneficial to students who study the flora of that portion of the state, a flora unique in many respects.

RANUNCULACEÆ.

Clematis virginiana L. Winneshiek, Allamakee, and Scott Cos. Woods, infrequent.

Anemone patens L., var. *nuttalliana* Gray. Winneshiek and Allamakee Cos. High prairies, common.

A. cylindrica Gray. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Frequent in open woods.

A. virginiana L. Winneshiek and Allamakee Cos. Rich woods, frequent.

A. pennsylvanica L. Winneshiek, Allamakee, and Scott Cos. Frequent in open woods.

A. nemorosa L. Winneshiek Co. Common in woods.

Hepatica acutiloba DC. Winneshiek, Allamakee, Clayton, and Scott Cos. Rocky woods, common.

Anemonella thalictroides Spach. Winneshiek and Allamakee Cos. Woods, frequent.

Thalictrum dioicum L. Winneshiek, Allamakee, Clayton, and Scott Cos. Rocky woods, frequent.

T. purpurascens L. Winneshiek, Allamakee, and Clayton Cos. In woods and open places, frequent.

Ranunculus aquatilis L., var. *trichophyllus* Gray. Winneshiek Co. Common in pools near springs. This may be *R. circinatus* Sifh.

R. rhomboideus Goldie. Winneshiek Co. One specimen found.

R. abortivus L. Winneshiek and Allamakee Cos. Wet and waste ground, common.

R. fascicularis Muhl. Winneshiek and Scott Cos. Upland woods, frequent.

R. septentrionalis Poir. Winneshiek Co. Moist places, common.

R. pennsylvanicus L. Winneshiek and Allamakee Cos. In Allamakee Co., in sandy soil along the Mississippi river.

Isopyrum biternatum T. & G. Winneshiek and Scott Cos. Woods.

Caltha palustris L. Winneshiek Co. Wet places, not common.

Aquilegia canadensis L. Winneshiek, Allamakee, Clayton, Dubuque, and Scott Cos. Woods, common.

Actæa spicata L. var. *rubra* Ait. Winneshiek Co. Woods, less frequent than the following.

A. alba Bigel. Winneshiek Co. Wooded hillsides, common.

Hydrastis canadensis L. One specimen noted. Winneshiek Co.

MENISPERMACEÆ.

Menispermum canadense L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Woods, frequent.

BERBERIDACEÆ.

Caulophyllum thalictroides Mx. Winneshiek, Allamakee, and Dubuque Cos. Upland woods, frequent.

Podophyllum peltatum L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Rich upland woods, common.

NYMPHÆACEÆ.

Nelumbo lutea Pers. Allamakee, and Clayton Cos. Very common in the sloughs of the Mississippi river.

Nymphæa odorata. Ait. Winneshiek and Allamakee Cos. Ponds and sloughs, frequent.

Nuphar advena Ait. Winneshiek and Allamakee Cos. Ponds, frequent.

PAPAVERACEÆ.

Sanguinaria canadensis L. Winneshiek, Allamakee, Clayton, and Scott Cos. Rich woods, frequent.

Dicentra cucullaria DC. Winneshiek, Allamakee, and Scott Cos. Rich woods, common.

CRUCIFERÆ.

Dentaria laciniata Muhl. Winneshiek and Scott Cos. Rich woods, frequent.

Cardamine rhomboidea DC. Winneshiek Co. Damp soil, frequent.

C. hirsuta L. Winneshiek and Allamakee Cos. Damp soil, frequent.

Arabis canadensis L. Winneshiek, Allamakee, and Clayton Cos. Woods, frequent.

A. confinis Watson. Winneshiek and Allamakee Cos. Woods, frequent.

A. lyrata L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Rolling woods, common.

A. dentata T. & G. Winneshiek Co. Woods, infrequent.

Draba caroliniana Walt. Winneshiek Co. Rocky woods, infrequent.

Camalina sativa Crantz. Winneshiek Co. Frequent in flax fields.

Nasturtium officinale R. Br. Winneshiek Co. Wet soil, frequent.

N. palustre DC. Winneshiek, Allamakee, Clayton, Dubuque, and Clinton Cos. Wet soil, margins of ponds and waterways, common.

N. armoracia Fries. Winneshiek, Allamakee, and Dubuque Cos. A frequent escape.

Erysimum cheiranthoides L. Winneshiek, Allamakee, and Dubuque Cos.

Sisymbrium canescens Nutt. Winneshiek Co.

S. officinale Scop. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Waste places, common.

S. altissimum L. Allamakee, Clayton, and Dubuque Cos. Frequent in waste places along or near railways.

Brassica sinapistrum Boiss. Winneshiek Co. Waste places, frequent.

B. nigra Koch. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Fields and waste places, common.

Capsella bursa-pastoris Moench. Winneshiek Co. Waste places, common.

L. epidium intermedium Gray. Winneshiek, Allamakee, Clayton, Dubuque, Jackson, Clinton and Scott Cos. Waste places, common.

CAPPARIDACEÆ.

Polanisia trachysperma T. & G. Winneshiek, Allamakee, Clayton, Dubuque and Jackson Cos. Sandy soil along waterways, common.

CISTACEÆ.

Helianthemum canadense Mx. Winneshiek and Allamakee Cos. Prairies, frequent.

VIOLACEÆ.

Viola pedata L. Winneshiek Co. Open places, frequent.

V. palmata L., var. *cucullata* Gray. Winneshiek, Allamakee, Dubuque, Clinton and Scott Cos. Fields and woods, common.

V. pubescens Ait. Winneshiek, Allamakee and Scott Cos. Woods, common.

V. canina L., var. *muhlenbergii* Gray. Winneshiek and Allamakee Cos. Damp woods, infrequent.

CARYOPHYLLACEÆ.

Saponaria officinalis L. Winneshiek and Allamakee Cos. Waste places. A frequent escape.

S. vaccaria L. Winneshiek Co. Waste places, infrequent.

Silene stellata Ait. Winneshiek and Allamakee Cos. Woods, frequent.

S. nivea Otth. Winneshiek and Allamakee Cos. Along river,] infrequent.

S. antirrhina L. Winneshiek Co. Fields, frequent.

Lychnis githago Lam. Winneshiek Co. Waste places, infrequent.

Arenaria lateriflora L. Winneshiek Co.

Stellaria media Smith. Winneshiek Co.

S. lonigfolia Muhl. Winneshiek Co.

Cerastium arvense L. Winneshiek Co.

C. nutans Raf. Winneshiek and Allamakee Cos.

PORTULACACEÆ.

Portulaca oleracea L. Winneshiek, Allamakee, Clayton and Scott Cos. Fields and waste places, common.

Claytonia virginica L. Winneshiek Co. Woods, frequent.

HYPERICACEÆ.

Hypericum ascyron L. Winneshiek, Allamakee and Clayton Cos. Prairie and upland woods, infrequent.

H. cistifolium Lam. Dubuque Co. Along the railway, frequent.

H. maculatum Walt. Winneshiek Co. Woods and open places, frequent.

MALVACEÆ.

Malva crispa L. Winneshiek Co. One specimen noted.

M. rotundifolia L. Winneshiek, Allamakee, Clayton, Dubuque and Jackson Cos. Waste places near dwellings, common.

Napæa dioica L. Winneshiek and Allamakee Cos. Frequent in the valley of the Upper Iowa river.

Abutilon avicennæ Gaertn. Winneshiek and Allamakee Cos. Fields and waste places, frequent.

TILIACEÆ.

Tilia americana L. Winneshiek, Allamakee, Clayton, Dubuque and Scott Cos. Rich woods, common.

LINACEÆ.

Linum sulcatum Riddell. Allamakee Co. Prairies, frequent.

L. usitatissimum L. Clayton and Dubuque Cos. Waste places along railway, infrequent.

GERANIACEÆ.

Geranium maculatum L. Winneshiek, Allamakee and Clayton Cos. Rich woods, frequent.

Oxalis violacea L. Winneshiek Co. Fields, common.

O. corniculata L., var. *stricta* Sav. Winneshiek, Allamakee, Clayton, Dubuque, and Clinton Cos. Fields and woods, common.

Impatiens pallida Nutt. Winneshiek and Clayton Cos. Rich soil along streams, common.

I. fulva Nutt. Winneshiek and Allamakee Cos. With the preceding.

RUTACEÆ.

Xanthoxy'um americana Mill. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Woods, frequent.

Ptelea trifoliata L. Rock Island Arsenal grounds.

CELASTRACEÆ.

Euonymus atropurpureus Jacq. Winneshiek and Allamakee Cos. Upland woods, frequent.

RHAMNACEÆ.

Ceanothus americanus L. Winneshiek, Allamakee, Clayton, Dubuque, and Jackson Cos. Woods, frequent.

VITACEÆ.

Vitis riparia Mx. Winneshiek, Allamakee, Clayton, Dubuque, and Jackson Cos. Woods, common.

Ampelopsis quinquefolia Mx. Winneshiek, Clayton, and Dubuque Cos. Woods, common.

SAPINDACEÆ.

Acer spicatum Lam. Clayton Co. Bluffs, infrequent. Specimen sent by Prof. B. Fink.

A. saccharinum Wang. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Frequent along rivers in rolling woods.

A. dasycarpum Ehrh. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Low grounds, common.

Negunao aceroides Moench. Winneshiek, Allamakee, Clayton, Dubuque, and Clinton Cos. Low grounds, common

Staphylea trifolia L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Rocky woods, frequent.

ANACARDIACEÆ.

Rhus typhina L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Rolling woods, frequent.

R. glabra L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Uplands, common.

POLYGALACEÆ.

Polygala senaga L. Winneshiek Co. Woods, frequent.

LEGUMINOSÆ.

Baptisia leucophœa Nutt. Winneshiek and Allamakee Cos. Open woods and pastures, frequent.

B. leucantha T. & G. Winneshiek and Allamakee Cos. Fields and woods, common.

Lupinus perennis L. Winneshiek Co.

Trifolium arvense L. Winneshiek Co. Fields, infrequent.

T. pratense L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Fields and waste places, common.

T. repens L. Winneshiek and Allamakee Cos. Pastures and waste places, common.

T. hybridum L. Winneshiek Co. Fields and waste places, infrequent.

Melilotus officinalis Willd. Winneshiek Co. Waste places, frequent.

M. alba Lam. Winneshiek, Allamakee, Clayton, Dubuque, and Scott Cos. Waste places, common.

Amorpha canescens Nutt. Winneshiek, Allamakee, Clayton, Dubuque, and Jackson Cos. Dry soil, common.

A. fruticosa L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Along waterways, frequent.

Petalostemon violaceus Mx. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Prairies, common.

P. candidus Mx. Winneshiek, Allamakee, and Dubuque Cos. With the preceding.

Tephrosia virginiana Pers. Winneshiek, Allamakee, and Jackson Cos. Sandy soil, frequent.

Robinia pseudacacia L. Winneshiek, Allamakee, and Jackson Cos. Introduced, waste places.

Astragalus canadensis L. Winneshiek and Clayton Cos. Frequent.

Desmodium acuminatum DC. Winneshiek, Allamakee, and Clayton Cos. Woods, frequent.

D. canadense DC. Winneshiek, Clayton, and Dubuque Cos.

Lespedeza capitata Mx. Winneshiek Co.

Vicia cracca K. Winneshiek Co. One specimen in my collection.

V. americana Mull. Winneshiek and Allamakee Cos. Woods, frequent.

Lathyrus venosus Muhl. Winneshiek Co. Woods, frequent.

Apios tuberosa Moench. Allamakee Co. Woods, frequent.

Strophostyles angulosa Ell. Clayton, Dubuque, Jackson, and Scott Cos. Sandy soil, common.

Cassia marylandica L. Dubuque Co. Woods, infrequent.

C. chamæcrista L. Winneshiek, Allamakee, Dubuque, and Jackson Cos. Fields and waste places, common.

Cercis canadensis L. Scott Co. Rolling woods, frequent.

Gymnocladus canadensis Lam. Dubuque Co. Woods along the river, infrequent.

Gleditschia triacanthos L. Allamakee, Clayton, Dubuque, Clinton, and Jackson Cos. Rich woods, frequent.

ROSACEÆ.

Prunus americana Mars. Winneshiek, Allamakee, and Clayton Cos. Thickets, frequent. ■

P. serotina Ehrh. Winneshiek, Allamakee, and Dubuque Cos. Rich woods, frequent.

P. virginiana L. Winneshiek, Allamakee, and Dubuque Cos. Thickets, frequent.

Spiraea aruncus L. Dubuque and Muscatine Cos. Along river, frequent.

Physocarpus opulifolius Maxim. Winneshiek, Allamakee, and Clayton Cos. Rich woods, frequent.

Rubus occidentalis L. Winneshiek, Allamakee, Clayton, Dubuque, and Jackson Cos. Borders of fields and in woods, frequent.

R. villosus Ait. Winneshiek and Jackson Cos. Woods, frequent.

Geum album Gmelin. Winneshiek, Allamakee, and Clayton Cos. Borders of fields and woods, common.

G. macrophyllum Wild. Winneshiek. A few collected.

G. triflorum Pursh. Winneshiek and Allamakee Cos. Rocky woods, infrequent.

Fragaria virginiana Mill. Winneshiek, Allamakee, and Clayton Cos. Fields and woods, common.

F. vesca L. Winneshiek and Allamakee Cos. Woods, common.

Potentilla arguta Pursh. Winneshiek and Allamakee Cos. Roadsides and prairies, frequent.

P. norvegica L. Winneshiek, Allamakee, Clayton and Dubuque Cos. Fields, frequent.

P. fruticosa L. Allamakee Co. Common on top of a bluff facing the Upper Iowa river. Also in Winneshiek Co.

P. canadensis L. Winneshiek and Allamakee Cos. Fields, common.

Agrimona eupatoria L. Winneshiek Co. Woods, common.

Rosa humilis Marsh. Winneshiek, Dubuque, Allamakee, and Jackson Cos. Prairie and fields, common.

R. blanda Ait. Winneshiek and Allamakee Cos. Fields and woods, frequent.

Pyrus coronaria L. Allamakee Co. Thickets, common.

Crataegus coccinea L. Allamakee Co. Thickets, common.

C. tomentosa L. Winneshiek, Allamakee, and Clayton Cos. Thickets, common.

C. crus-galli L. Winneshiek, Allamakee, Clayton and Scott Cos. Thickets, common.

Amelanchier canadensis T. & G. Winneshiek and Allamakee Cos. Rocky woods, frequent.

SAXIFRAGACEÆ.

Saxifraga pennsylvanica L. Winneshiek and Allamakee Cos. Rich soil, meadows and open woods, frequent.

Mitella diphylla L. Winneshiek Co. Rich woods, frequent.

Heuchera hispida Pursh. Winneshiek, Allamakee, Clayton and Scott Cos. Meadows, frequent.

Ribes cynosbati L. Winneshiek, Clayton and Dubuque Cos. Woods, frequent.

R. gracile Mx. Winneshiek, Allamakee and Dubuque Cos. Woods, common.

R. floridum L'Her. Winneshiek, Allamakee and Clayton Cos. Woods, frequent.

CRASSULACEÆ

Penthorum sedoides L. Winneshiek Co. Wet ground, frequent.

HAMAMELIDEÆ.

Hamamelis virginiana L. Clayton Co. In a ravine below the pictured rocks south of McGregor.

ONAGRACEÆ.

Epilobium angustifolium L. Dubuque Co. Common in open woods.

E. coloratum Muhl. Winneshiek Co. Wet soil, frequent.

Gaura coccinea Nutt. Dubuque Co. Common.

Oenothera biennis L. Winneshiek, Clayton, Dubuque and Jackson Cos. Fields, common.

O. serrulata Nutt. Winneshiek and Allamakee Cos. Prairies and woods, frequent.

Circeä lutetiana L. Winneshiek and Allamakee Cos. Woods, common.

C. alpina L. Clayton Co. Woods along river, infrequent.

CUCURBITACEÆ.

Echinocystis lobata T. & G. Winneshiek, Allamakee, Clayton and Clinton Cos. Woods, common.

FICOIDEÆ.

Mollugo verticillata L. Allamakee and Clayton Cos. Sandy shores, common.

UMBELLIFERÆ.

Daucus carota L. Dubuque Co. Common along railway.

Heracleum lanatum Mx. Winneshiek and Allamakee Cos. Upland woods, frequent.

Cicuta maculata L. Winneshiek, Allamakee, Clayton and Dubuque Cos. Wet places, common.

Pastinaca sativa L. Dubuque Co. Waste ground.

Pimpinella integerrima Benth. & Hook. Winneshiek Co. Woods, frequent.

Cryptotaenia canadensis DC. Winneshiek Co.

Sium cicutæfolium Gmelin. Winneshiek, Allamakee, Clayton and Dubuque Cos. In water or wet ground, frequent.

Conium maculatum L. Winneshiek Co. Along a ravine, introduced, infrequent.

Zizia aurea Koch. Winneshiek and Allamakee Cos. Rich soil, common.

Osmorrhiza longistylis DC. Allamakee Co. Woods, frequent

O. brevistylis DC. Winneshiek and Clayton Cos. Woods, frequent

Eryngium yuccæfolium Mx. Winneshiek Co. Prairies, common.

Saniculama rylandica L. Winneshiek, Clayton and Dubuque Cos. Woods, common.

ARALIACEÆ.

Aralia racemosa L. Winneshiek, Clayton and Dubuque Cos. Rocky woods, frequent

A. nudicaulis L. Winneshiek and Allamakee Cos. Rocky woods, frequent.

A. quinquefolia Decs. & Planch. Winneshiek Co. Woods, infrequent.

CORNACEÆ.

Cornus paniculata L'Her. Winneshiek, Allamakee, and Clayton Cos. Woods and borders, frequent.

CAPRIFOLIACEÆ.

Sambucus canadensis L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Fields and woods, common.

S. racemosa L. Winneshiek and Clayton Cos. Rocky woods, frequent.

Viburnum lentago L. Winneshiek, Allamakee, and Dubuque Cos. Woods, frequent.

Triosteum perfoliatum L. Winneshiek, Allamakee, and Clayton Cos. Open woods, frequent.

Linnæa borealis Gronov. Winneshiek Co.

Symphoricarpos occidentalis Hook. Winneshiek Co.

Lonicera glauca Hill. Winneshiek and Allamakee Cos. Woods, infrequent.

L. sullivantii Gray. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Woods, frequent.

Diervilla trifida Moench. Winneshiek Co. Woods near the base of cliffs, frequent.

RUBIACEÆ.

Cephalanthus occidentalis L. Allamakee, Clayton, Clinton, and Jackson Cos. Low woods, frequent.

Galium aparine L. Winneshiek and Allamakee Cos. Damp woods, frequent.

G. boreale L. Winneshiek and Allamakee Cos. Woods, frequent.

G. concinnum T. & G. Winneshiek and Allamakee Cos. Woods, common.

VALERIANACEÆ.

Valeriana edulis Nutt. Winneshiek Co. Damp places, frequent

COMPOSITÆ.

Vernonia fasciculata Mx. Winneshiek, Allamakee, Dubuque, and Jackson Cos. Low grounds, frequent.

Eupatorium purpureum L. Winneshiek, Clayton, and Dubuque Cos. Woods, frequent.

E. ageratoides L. Winneshiek Co. Woods, common.

E. perfoliatum L. Winneshiek Co.

E. altissimum L. Winneshiek Co.

Kuhnia eupatorioides L. Winneshiek Co. Dry soil, common.

Liatris scariosa Willd. Winneshiek Co. Prairies.

Solidago bicolor L. Winneshiek Co. One specimen collected.

S. rigida L. Winneshiek Co. Prairies, common.

S. ulmifolia Muhl. Winneshiek Co. Woods, common.

S. latifolia L. Allamakee Co. Woods, frequent.

S. serotina Ait. Winneshiek, Clayton, and Dubuque Cos.

S. canadensis L. Winneshiek, Clayton, and Dubuque Cos.

S. nemoralis Ait. Winneshiek and Dubuque Cos.

Aster sericeus Vent. Winneshiek Co.

A. shortii Hook. Winneshiek Co. One specimen noted.

A. multiflorus Ait. Winneshiek Co. Waysides, common.

A. tradescanti L. Winneshiek Co.

- A. novæ-angliæ* L. Winneshiek Co.
A. azureus Lindl. Winneshiek Co.
A. sagittifolius Willd. Winneshiek, Allamakee, Clayton, and Dubuque Cos,
Erigeron bellidifolius Muhl. Winneshiek Co.
E. strigosus Muhl. Winneshiek Co.
E. philadelphicus L. Winneshiek Co.
E. canadensis L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Fields and waste places, common.
E. annuus Pers. Winneshiek, Allamakee, Clayton, and Dubuque Cos.
Antennaria plantaginifolia Hook. Winneshiek, Allamakee, and Clayton Cos. Fields and open woods, common.
Polymnia canadensis L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Along the base of wooded cliffs, common.
Silphium perfoliatum L. Winneshiek, Allamakee, and Dubuque Cos.
S. laciniatum L. Winneshiek, Allamakee, and Dubuque Cos. Prairies and borders of woods, common.
S. integrifolium Mx. Dubuque Co.
Parthenium integrifolium L. Winneshiek, Allamakee, and Dubuque Cos. Fields, frequent.
Iva xanthiifolia Nutt. Winneshiek Co. Waste places, infrequent.
Ambrosia artemisiæfolia L. Winneshiek, Allamakee, Clayton, Dubuque, and Jackson Cos. Fields and waste places, common.
A. trifida L. Winneshiek, Allamakee, and Jackson Cos. Damp soil, waste places, common. The var. *integrifolia* T. G., frequently found.
Xanthium canadense Mill. Winneshiek, Allamakee, Clayton, Dubuque, Jackson, and Clinton Cos. Fields and waste places, common.
Heliopsis scabra Dunal. Winneshiek, Allamakee, and Clayton Cos. Frequent.
Rudbeckia triloba L. Winneshiek and Dubuque Cos. Open woods, frequent.
R. hirta L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Woods, frequent.
R. laciniata L. Winneshiek Co.
Lepachys pinnata T. & G. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Prairies, common.

Helianthus annuus L. Winneshiek, Allamakee, Clayton, and Jackson Cos. Waste places, frequent.

H. petiolaris Nutt. Dubuque Co. Along the railroad, one specimen.

H. occidentalis Ridd. Winneshiek Co.

H. grosse-serratus Mart. Winneshiek Co. Rich soil, common.

H. maximiliani Schrad. Dubuque Co. A few along railroad.

H. tuberosus L. Winneshiek Co. Woods, frequent.

Coreopsis palmata Nutt. Winneshiek, Allamakee, and Clayton Cos. Prairies, common.

Bidens frondosus L. Winneshiek, Clayton, Dubuque, and Clinton Cos. Wet grounds, common.

B. connata Muhl. Winneshiek Co. Wet grounds, common.

B. cernua L. Winneshiek Co. Wet grounds, common.

Helenium autumnale L. Winneshiek, Allamakee, Clinton, and Scott Cos. Alluvial soil, frequent.

Anthemis cotula DC. Winneshiek, Allamakee, Clayton, Dubuque, Jackson, Clinton, and Scott Cos. Waste places, common.

Achillea millefolium L. Winneshiek and Dubuque Cos. Meadows and open woods, common.

Chrysanthemum leucanthemum L. Allamakee and Dubuque Cos. Along railroad and in open woods, infrequent.

Tanacetum vulgare L. Winneshiek and Allamakee Cos. Waysides and waste places, frequent.

Artemisia blennis Willd. Winneshiek, Dubuque, and Jackson Cos. Waste places, frequent.

A. ludoviciana Nutt. Winneshiek, Allamakee, and Dubuque Cos.

A. caudata Mx. Winneshiek Co.

Senecio aureus L., var. *balsamitæ* T. & G. Winneshiek, Allamakee, and Scott Cos. Woods, frequent.

Cacalia suaveoleus L. Winneshiek Co. Woods, infrequent.

C. reniformis Muhl. Winneshiek and Allamakee Cos. Woods, frequent.

C. tuberosa Nutt. Allamakee Co. Wet prairies, frequent.

Erechtites hieracifolia Raf. Winneshiek Co. Open places, frequent.

Arctium lappa L. Winneshiek, Clayton and Dubuque Cos. Fields and waste places, frequent.

Cnicus lanceolatus Hoffm. Winneshiek, Allamakee, Clayton, Dubuque and Clinton Cos. Fields and open woods, frequent.

- C. altissimus* Willd. Winneshiek and Scott Cos.
Krigia amplexicaulis Nutt. Winneshiek and Allamakee Cos.
 Rich upland woods, common.
Hieracium canadense Mx. Winneshiek Co.
Prenanthes alba L. Winneshiek Co.
Taraxacum officinale Weber. Winneshiek, Allamakee, Clayton, Dubuque, and Clinton Cos. Roadsides and fields, common.
Lactuca scariola L. Winneshiek and Dubuque Cos. Waste places, infrequent.
L. canadensis L. Winneshiek Co.
L. acuminata Gray. Clayton and Dubuque Cos.
Sonchus asper Vill. Winneshiek and Dubuque Cos.

LOBELIACEÆ.

- Lobelia syphilitica* L. Winneshiek Co. Dampsoil, common.
L. spicata Lan. Winneshiek and Allamakee Cos. Fields, frequent.

CAMPANULACEÆ.

- Specularia perfolia* A. DC. Winneshiek and Allamakee Cos.
Campanula rotundifolia L. Winneshiek, Allamakee, Clayton, Dubuque, and Jackson Cos. Woods at the base of cliffs, frequent.
C. aparinoides Pursh. Winneshiek Co. A few specimens collected.
C. americana L. Winneshiek, Clayton, and Dubuque Cos. Rich soil, woods, frequent.

ERICACEÆ.

- P. secunda* L. Winneshiek Co. One specimen received in exchange. The only locality known in the state. Reported by Holway and Shimek.

PRIMULACEÆ.

- Eodecatheon media* L. Winneshiek and Scott Cos. Woods frequent.
Seironoma ciliatum Raf. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Open woods, frequent.
S. lanceolatum Gray. Allamakee Co. Alluvial soil along the Mississippi river.

OLEACEÆ.

Fraxinus americana L. Winneshiek, Allamakee, Clayton, and Clinton Cos. Rich woods, frequent.

Syringa vulgaris L. Dubuque Co. Many specimens were found along the railroad.

APOCYNACEÆ.

Apocynum androsæmifolium L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Fields and waste places, frequent.

ASCLEPIADACEÆ.

Asclepias tuberosa L. Winneshiek, Allamakee, and Clayton Cos. Fields, frequent.

A. incarnata L. Winneshiek, Allamakee, and Clayton Cos. Wet ground, frequent.

A. cornuti Dec. Winneshiek, Allamakee, Clayton, Dubuque, and Jackson Cos. Fields, common.

A. phytolaccoidea Pursh. Winneshiek Co.

A. verticillata L. Winneshiek, Clayton and Dubuque Cos. Open woods, frequent.

Acerates viridiflora Ell. Allamakee Co.

GENTIANACEÆ.

Gentiana quinquefolia Lam., var. *occidentalis* Gray. Winneshiek Co.

G. puberula Mx. Winneshiek Co.

G. alba Muhl. Winneshiek Co. One specimen.

POLEMONIACEÆ.

Phlox pilosa L. Winneshiek and Scott Cos. Prairies, frequent.

P. divaricata L. Winneshiek, Allamakee and Clayton Cos. Woods, frequent.

Polemonium reptans L. Winneshiek, Allamakee and Scott Cos. Rich woods, frequent.

HYDROPHYLLACEÆ.

Hydrophyllum virginicum L. Winneshiek and Allamakee Cos.

H. appendiculatum Mx. Winneshiek Co. Rocky woods, frequent.

Ellisia nyctelea L. Winneshiek Co. Low ground, common.

BORRAGINACEÆ.

Cynoglossum officinale L. Allamakee and Scott Cos. Open woods, infrequent.

Echinosperrum virginicum Lehm. Winneshiek Co.

E. redowskii occidentale Wats. Winneshiek Co. Frequent.

Mertensiu virginica DC. Winneshiek and Scott Cos. Damp woods, frequent.

M. paniculata Don. Winneshiek Co. Received in exchange, collected by Holway.

Lithosperrum latifolium Mx. Winneshiek Co.

L. hirtum Lehm. Winneshiek and Allamakee Cos. Sandy woods, frequent.

L. canescens Lehm. Winneshiek, Allamakee and Scott Cos.

L. angustifolium Mx. Winneshiek Co.

Onosmodium carolinianum DC. Winneshiek and Allamakee Cos. Pastures and open woods, frequent.

CONVOLVULACEÆ.

Ipomœa pandurata Meyer. Winneshiek Co.

Convolvulus sepium L. Allamakee, Clayton, Dubuque and Clinton Cos. Fields and thickets, frequent.

Cuscuta glomerata Choisy. Winneshiek, Allamakee and Jackson Cos. Fields and upland thickets, frequent.

C. tenuiflora Eng. Winneshiek Co. Woods, frequent.

SOLANACEÆ.

Solanum nigrum L. Allamakee, Clayton, Dubuque, Clinton and Scott Cos. Fields and woods, common

Physalis virginiana Mill. Winneshiek, Allamakee and Clayton Cos

P. lanceolata Mx. Winneshiek Co. Prairies, frequent.

P. lanceolata MX., var. *lævigata* Gray. Allamakee Co.

Datura tatula L. Allamakee and Dubuque Cos. Waste places, common.

SCROPHULARIACEÆ.

Verbascum thapsus L. Winneshiek, Allamakee, Clayton, Dubuque, Jackson and Scott Cos. Fields and woods, common.

Linaria vulgaris Mill. Winneshiek and Clayton Cos. Waste places, frequent.

Scrophularia nodosa L., var. *marilcanda* Gray. Winneshiek, Allamakee, Clayton and Dubuque Cos. Open woods, frequent

Chelone glabra L. Winneshiek Co.

Mimulus ringens L. Winneshiek, Allamakee, Clayton and Dubuque Cos. Wet ground, river banks, frequent.

M. jamesii Torr. Winneshiek Co. Calcareous springs, frequent.

Gratiola virginiana L. Winneshiek Co. Upland woods, frequent.

Veronica virginica L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Woods, common.

V. anagallis L. Winneshiek and Allamakee Cos. Wetgrounds near springs, common.

V. peregrina L. Winneshiek Co. Wet soil, common.

Gerardia tenuifolia Vahl. Winneshiek Co. Fields and woods, common.

Castilleja coccinea Spreng. Winneshiek Co. Woods, frequent.

Pedicularis canadensis L. Winneshiek, Allamakee, and Clayton Cos. Prairies, common.

P. lanceolata Mx. Wet ground, infrequent.

VERBENACEÆ.

Verbena urticifolia L. Winneshiek, Allamakee, and Dubuque Cos. Fields and open woods, frequent.

V. angustifolia Mx. Allamakee Co. Sandy soil, frequent.

V. hastata L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Waste grounds, common.

V. stricta Vent. Winneshiek, Allamakee, and Clayton Cos. Sandy soil, frequent.

V. bracteosa Mx. Winneshiek, Allamakee, and Clayton Cos. Pastures and waste places, frequent.

Lippia lanceolata Mx. Clayton, Dubuque, and Clinton Cos. Wet soil along river, common.

Phryma leptostachya L. Winneshiek, Allamakee, and Clayton cos. Rich open woods, common.

LABIATEÆ.

Isanthus cœruleus Mx. Winneshiek and Scott cos. Open woods, frequent.

- Mentha canadensis* L. Winneshiek and Allamakee Cos.
Lycopus sinuatus Ell. Winneshiek Co.
Pycnanthemum lanceolatum Pursh. Winneshiek Co.
P. linifolium Pursh. Jackson Co.
Hedeoma pulegioides Pers. Allamakee Co. Open woods, common.
H. hispida Pursh. Winneshiek Co. Dry soil, common.
Monarda fistulosa L. Winneshiek, Allamakee, Clayton and Dubuque Cos. Waste places, common.
M. punctata L. Dubuque Co. Frequent along railroad.
Lophanthus scrophulariæfolius Benth. Winneshiek Co. Open woods.
Nepeta cataria L. Winneshiek, Allamakee, Clayton, Dubuque, and Scott Cos. Roadsides and waste places, common.
N. glechoma Benth. Winneshiek Co. Waste places, infrequent.
Blephilia hirsuta Benth. Winneshiek Co. Woods, frequent.
Scutellaria lateriflora L. Winneshiek Co.
S. versicolor Nutt. Winneshiek and Allamakee Cos. Woods, infrequent.
S. parvula Mx. Winneshiek, Allamakee, and Scott Cos.
Brunella vulgaris L. Winneshiek, Allamakee, and Dubuque Cos.
Physostegia virginiana Benth. Winneshiek Co.
Leonurus cardiaca L. Winneshiek Co. Waste places, frequent.
Stachys palustris L. Winneshiek Co.
S. aspera Mx. Dubuque Co.
Galeopsis tetrahit L. Winneshiek Co. One specimen collected.

AMARANTACEÆ.

- Amarantus albus* L. Winneshiek, Allamakee, Clayton, Clinton, and Scott Cos. Wayside and waste places, frequent.
A. blitoides Watson. Allamakee Co.

CHENOPODIACEÆ.

- Chenopodium album* L. Winneshiek, Allamakee, and Clinton Cos.
C. botrys L. Dubuque Co. Waste places, frequent.
Salsola kali L. var. *targus* DC. Dubuque Co. A few found in waste places.

POLYGONACEÆ.

- Rumex britannica* L. Winneshiek and Allamakee Cos. Rich soil, common.
- R. altissimus* Wood. Winneshiek, Allamakee, and Clayton Cos. Rich soil, common.
- R. verticillatus* L. Winneshiek and Allamakee Cos. Wet ground, frequent.
- R. obtusifolius* L. Winneshiek Co.
- R. crispus* L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Rich soil, wayside and waste places, common.
- R. acetosella* L. Winneshiek and Allamakee Cos. Cultivated fields, frequent.
- Polygonum pennsylvanicum* L. Winneshiek and Clayton Cos. Damp soil, common.
- P. amphibium* L. Allamakee Co. Along river.
- P. aviculare* L. Winneshiek Co. Waste places, common.
- P. sagittatum* L. Winneshiek Co. Margins of ponds and streams, frequent.
- P. convolvulus* L. Dubuque Co.
- P. dumetorum* L., var. *scandens* Gray. Winneshiek, Allamakee, and Clayton Cos. Fields and woods, common.
- P. tenue* Mx. Winneshiek Co.

ARISTOLOCHIACEÆ.

- Asarum canadense* L. Winneshiek, Allamakee, and Clayton Cos. Wooded bluffs, frequent.

THYMELÆACEÆ.

- Dirca palustris* L. Winneshiek Co.

EUPHORBIACEÆ.

- Euphorbia maculata* L. Winneshiek, Allamakee, Clayton, Dubuque, Jackson, and Clinton Cos. Waysides, common.
- E. preslii* Guss. Winneshiek, Allamakee, and Dubuque Cos. Waysides, common.
- E. cyparissias* L. Allamakee and Scott Cos. Near old cemetery.

URTICACEÆ.

- Urtica fulva* Mx. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Rich woods, frequent.

U. americana L. Winneshiek, Allamakee, Clayton, Dubuque, Jackson, Clinton, and Scott Cos. Woods, common.

Celtis occidentalis L. Winneshiek, Allamakee, and Clayton Cos. Rich woods, frequent.

Morus rubra L. Clayton Co. Near river, infrequent.

Urtica gracilis Ait. Winneshiek and Allamakee Cos. Alluvial soil, frequent.

Pilea pumila Gray. Winneshiek and Clayton Cos. Rich woods or waste places, frequent.

Laportea canadensis Gaud. Alluvial soil, frequent.

Parietaria pennsylvanica Muhl. Winneshiek, Allamakee, and Dubuque Cos. Woods, frequent.

PLANTANACEÆ.

Plantanus occidentalis L. Jackson Co. Along Mississippi river.

JUGLANDACEÆ.

Juglans cinerea L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Rich soil, frequent.

J. nigra L. Winneshiek, Allamakee, Clayton, Dubuque, Jackson, and Scott Cos. Rich soil, frequent.

Carya alba Nutt. Winneshiek, Allamakee, Clinton, and Scott Cos. Uplands, frequent.

C. amara Nutt. Winneshiek Co. Low grounds, frequent.

CUPULIFERÆ.

Betula nigra L. Allamakee, Clayton, Dubuque, Jackson, and Clinton Cos. River banks, common.

B. papyrifera Mars. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Rich woods, common.

Corylus americana Walt. Winneshiek, Allamakee, and Dubuque Cos. Uplands, common.

Ostrya virginica Willd. Winneshiek, Allamakee, and Clayton Cos. River bluffs, frequent.

Carpinus caroliniana Walt. Allamakee, Clayton, and Dubuque Cos. Rolling woods, frequent.

Quercus alba L. Winneshiek, Allamakee, and Clayton Cos. Uplands, frequent.

Q. macrocarpa Mx. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Upland woods, common.

Q. rubra L. Winneshiek, Allamakee, and Clayton Cos. Uplands and lowlands, frequent.

Q. coccinea Wang. Allamakee, Dubuque, Jackson, and Scott Cos. Uplands, common.

SALICACEÆ.

Salix humilis Marsh. Winneshiek Co. Prairies, frequent.

Populus tremuloides Mx. Winneshiek, Allamakee, and Dubuque Cos.

P. monilifera Ait. Winneshiek, Allamakee, Clayton, Dubuque, Jackson, and Clinton Cos. Along streams, common.

CONIFERÆ.

Pinus strobus L. Winneshiek, Allamakee, and Clayton Cos. Summit of bluffs along rivers, frequent.

Juniperus communis L. Winneshiek, Allamakee, and Dubuque Cos. Dry soil, frequent.

J. virginiana L. Winneshiek, Allamakee, and Clayton Cos. With the preceding.

Taxus canadensis Willd. Winneshiek, and Dubuque Cos. A decumbent bush under the pines.

HYDROCHARIDACEÆ.

Elodea canadensis Mx. Winneshiek and Allamakee Cos. Ponds, frequent.

Vallisneria spiralis L. Scott Co. In Mississippi river.

ORCHIDACEÆ.

Liparis liliifolia Richard. Winneshiek Co.

Goodyera pubescens R. Br. Winneshiek Co. One specimen noted.

Habenaria bracteata R. Br. Winneshiek Co. Two specimens found in deep woods.

Cypripedium pubescens Willd. Winneshiek and Allamakee Cos. Rich woods, frequent.

IRIDACEÆ.

Iris versicolor L. Winneshiek and Allamakee Cos. Wet places, frequent.

Belamcanda chinensis Adams. Dubuque Co. Frequent along railway.

Sisyrinchium angustifolium Mill. Winneshiek Co. Fields and waysides, frequent.

AMARYLLIDACEÆ.

Hypoxis erecta L. Winneshiek Co. Rich meadows, frequent.

DIOSCORIACEÆ.

Dioscorea villosa L. Winneshiek and Dubuque Cos. Thickets, frequent.

LILIACEÆ.

Smilax herbacea L. Winneshiek, Allamakee, and Dubuque Cos. Alluvial soil, frequent.

S. hispida Muhl. Allamakee, Clayton, and Dubuque Cos. Thickets, frequent.

S. ecirrhata Wats. Winneshiek Co. Woods, frequent.

Allium stellatum Fras. Winneshiek Co. Fields, frequent.

A. tricoccum Ait. Winneshiek and Allamakee Cos. Low woods, infrequent.

A. canadense Kalm. Winneshiek, Allamakee, and Dubuque Cos. Fields, frequent.

Zygadenus elegans Pursh. Allamakee Co. Base of cliffs, frequent.

Polygonatum giganteum Diet. Winneshiek, Clayton, and Dubuque Cos. Alluvial soil, frequent.

Asparagus officinalis L. Winneshiek Co. Waysides and waste places, infrequent.

Smilacina racemosa Desf. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Copses, common.

S. stellata Desf. Winneshiek Co. Frequent.

Maianthemum canadense Desf. Winneshiek Co. Rich woods, frequent.

Uvularia grandiflora Smith. Winneshiek, Allamakee, and Clayton Cos. Rich woods, frequent.

Oakesia sessilifolia Watson. Winneshiek Co. Rich woods, infrequent.

Erythronium albidum Nutt. Winneshiek Co. Rich soil, common.

Lilium philadelphicum L. Winneshiek Co. Prairies and upland woods, infrequent.

- L. canadense* L. Winneshiek Co.
Trillium erectum L. Winneshiek Co. Rich woods, frequent.
T. nivale Riddell. Winneshiek Co. Rocky woods, frequent.

PONTEDERIACEÆ.

- Heteranthera graminea* Vahl. Allamakee Co. Frequent in Upper Iowa river.

COMMELINACEÆ.

- Tradescantia virginica* L. Winneshiek, Allamakee, and Clayton Cos. Rich soil, frequent.

JUNCACEÆ.

- Juncus tenuis* Willd. Winneshiek, Allamakee, Dubuque, and Jackson Cos. Fields and waysides, common.

TYPHACEÆ.

- Typha latifolia* L. Winneshiek and Allamakee Cos. Ponds and river margins, frequent.
Sparganium eurycarpum Englm. Winneshiek Co. Wet places, frequent.

ARACEÆ.

- Arisœma triphyllum* Torr. Winneshiek, Allamakee, Clayton, Dubuque, and Scott Cos. Rich woods, frequent.
A. dracontium Schott. Winneshiek and Dubuque Cos. Rich woods, infrequent.
Symplocarpus fœtidus Salisb. Winneshiek and Allamakee Cos. Wet ground, infrequent.

LEMNACEÆ.

- Spirodela polyrrhiza* Schleid. Winneshiek and Dubuque Cos. Ponds and river sloughs, common.

ALISMACEÆ.

- Alisma plantago* L. Winneshiek and Dubuque Cos. Shallow ponds and ditches, frequent.
Sagittaria variabilis Engl. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Mud flats, ditches, and shallow water, common.

S. heterophylla Pursh. Winneshiek Co. In shallow water, frequent.

NAIADACEÆ.

Potamogeton frutans Roth. Winneshiek, Allamakee, and Clayton Cos. Common in the Upper Iowa river.

P. pauciflorus Pursh. Winneshiek Co. Frequent.

CYPERACEÆ.

Cyperus esculentus L. Clayton Co. Wet ground, frequent.
Eleocharis palustris R. Br. Winneshiek Co. Wet ground, frequent.

Scirpus lacustris L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Wet ground and in water, common.

S. fluviatilis Gray. Allamakee Co. Very common in the sloughs of the Mississippi river.

S. atrovirens Muhl. Winneshiek, Allamakee, and Dubuque Cos. Wet ground, frequent.

Carex intumescens Rudge. Dubuque Co. Wet woods, frequent.

C. squarrosa L. Clayton and Dubuque Cos. Wet woods, frequent.

C. hystricina Muhl. Winneshiek Co. Wet ground, frequent.

C. pennsylvanica Lam. Winneshiek Co. Dry soil, common.

C. stipata Muhl. Winneshiek Co.

C. vulpinoidea Mx. Winneshiek Co.

C. rosea Schkuhr. Winneshiek Co.

C. cephalophora Muhl. Winneshiek Co.

C. straminea Willd., var. *aptera* Booth. Winneshiek Co. The same as *C. tenera* Dew.

GRAMINEÆ.

Panicum sanguinale L. Winneshiek Co.

P. capillare L. Winneshiek Co.

P. dichotomum L. Winneshiek Co.

P. dichotomum L., var. *villosa* Vasey. Winneshiek Co.

P. latifolium L. Winneshiek, Allamakee, and Clayton Cos. Woods, frequent.

Setaria glauca Beauv. Winneshiek, Clayton, and Dubuque Cos. Waste places, common.

S. viridis Beauv. Winneshiek and Clayton Cos. Waste places, common.

Cenchrus tribuloides L. Dubuque Co. Sandy soil, frequent.

Andropogon furcatus Muhl. Allamakee Co.

Stipa spartea Trin. Winneshiek Co. Prairies, frequent.

Phleum pratense L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Cultivated and frequent in waste places.

Bouteloua racemosa Lag. Allamakee Co. Waysides, frequent.

Koeleria cristata Pers. Winneshiek and Allamakee Cos. Waysides, frequent.

Eragrostis major Host. Winneshiek and Dubuque Cos. Sandy soil, frequent.

E. frankii Meyer. Winneshiek Co. Sandy soil.

Melica mutica Walt. Winneshiek Co.

Poa pratensis L. Winneshiek, Allamakee, and Dubuque Cos. Dry soil, pastures, waysides, common.

Glyceria arundinacea Kunth. Winneshiek Co. Margins of ponds, wet ground, frequent.

Bromus kalmii Gray. Winneshiek Co. Fields, infrequent.

B. secalinus L. Winneshiek Co. Fields and waste places, frequent.

B. ciliatus L., var. *purgans* Gray. Winneshiek, Allamakee, and Jackson Cos. Rich upland woods, frequent.

Agropyrum repens (L.) Beauv. Winneshiek Co. Dry soil, frequent.

Hordeum jubatum L. Winneshiek, Clayton, and Scott Cos. Dry fields, common.

Elymus canadensis L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Prairies and low grounds, common.

E. striatus Willd. Allamakee Co.

Asprella hystrix Willd. Winneshiek, Clayton, and Dubuque Cos. Upland woods, frequent.

EQUISETACEÆ.

Equisetum arvense L. Winneshiek and Allamakee Cos. Wet soil, frequent.

E. hyemale L. Allamakee Co. Wet places, frequent.

E. lævigatum Braun. Waysides and fields, frequent.

FILICES.

Polypodium vulgare L. Clayton Co. Frequent at pictured rocks below McGregor.

Adiantum pedatum L. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Rich, upland woods, frequent.

Pteris aquilina L. Winneshiek, Allamakee, and Clayton Cos. Upland woods, frequent.

Cheilanthes lanuginosa Nutt. Allamakee and Dubuque Cos. On the face of cliffs, common locally.

Pellaea atropurpurea Link. Winneshiek, Allamakee, and Dubuque Cos. Cliff crevices, frequent.

Asplenium filix-fœmina Bernh. Winneshiek and Clayton Cos. Woods, frequent.

Camptosorus rhizophyllus Link. Winneshiek, and Clayton Cos. Rocky glens, infrequent.

Cystopteris bulbifera Bernh. Winneshiek, Allamakee, Clayton, and Dubuque Cos. Rich soil near base of cliffs, frequent.

C. fragilis Bernh. Winneshiek and Allamakee Cos. Woods, frequent.

Onoclea sensibilis L. Clayton Co. Moist ravines, frequent.

Osmunda claytoniana L. Winneshiek, Allamakee, and Clayton Cos. Low woods, frequent.

OPHIOGLOSSACEÆ.

Botrychium virginianum Swartz. Winneshiek and Allamakee Cos. Rich woods, frequent.

MARCHANTIACEÆ.

Marchanta polymorpha L. Winneshiek, Allamakee, and Dubuque Cos. Wet rocks, frequent.