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## The Flora of Iowa County

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# The Flora of Iowa County

By Nathan W. Easterly

## INTRODUCTION

Iowa County has not been neglected botanically although there has never been a complete survey of the flora of the county. Because of the energetic travels of the late Professor B. Shimek, over 300 specimens from Iowa County are included in the permanent collections in the herbarium at the State University of Iowa. Dr. Shimek has also made numerous reports of plants from Iowa County which have been used in this thesis. The first list of plants published as a flora of Iowa County was prepared by William Moerschall and Conrad Schadt, pharmacists, Amana. This list is found at the end of Stookey's "Geology of Iowa County" (31). Since then, many reports concerning the flora of the county have been made. The present study was conducted mainly throughout the growing season of 1950. Including the author's collections together with the reports of plants that have been collected or observed by other workers, this work constitutes a preliminary list of the plants that grow in Iowa County, Iowa.

## PLANT COMMUNITIES OF THE COUNTY

Although most of Iowa County is now under cultivation and the original plant cover has been obliterated in most cases, several different plant communities are still represented in very limited areas, mostly in the northern part of the county. The Amana Woods, one mile south of Amana on both sides of Route 149, are still largely unchanged by man due to careful management by the Amana Society. The higher knolls in the woods support an upland woods community, the slopes, a moister and richer woodland community. Upland woods are well represented also by the timber north of Middle Amana. A flood plain community may be observed along the Iowa River, which flows through the northern part of the county; and, also, as badly grazed patches along the North English River in the southern part of the county. Prairie relicts may still be seen between the railroad and Route 6 one mile west of Homestead, and again between Marengo and Ladora. The rest of the prairie that must have been so prominent in older times has been given over to cultivation. Aquatic vegetation is rather limited. Two wide ditches, located along Route 6 between Marengo

and Ladora, produced *Potamogeton diversifolius* and several other aquatics; and a large shallow pond near Amana is filled with lotus, *Nelumbo lutea*, and little else. Dutch Lake, near the Amana Woods, and other cut-off ox-bow lakes along the Iowa River, are largely devoid of vascular aquatics. Sand plants are limited to a few sandy knolls south of the Iowa River. Weeds, on the other hand, are abundant everywhere along the railroads and roads, in the several towns, and in the cultivated or pastured fields.

## Annotated List of Plants

### FAMILY 1. EQUISETACEAE

- Equisetum arvense* L. Field Horsetail. Common. Sterile meadows, railroad embankments.  
*Equisetum hyemale* L. Tall Scouring Rush. Infrequent. Bottomland along Iowa River.  
*Equisetum kansanum* Schaffn. Common. Railroad embankments, moist ditches along highways.  
*Equisetum sylvaticum* L. Woodland Horsetail. Infrequent. Wooded slopes south of Amana.

### FAMILY 2. LYCOPODIACEAE

- Lycopodium complanatum* L. Ground Pine. Rare. On slope of ravine in rich woods south of Amana.  
*Lycopodium lucidulum* Michx. Shining Club-moss. Rare. Rich cool woods between Homestead and Amana.

### FAMILY 5. OPHIOGLOSSACEAE

- Botrychium dissectum* Spreng. Grape Fern. Rare. Bottomland one mile south of Amana.  
*Botrychium virginianum* (L.) Sw. Rattlesnake Fern. Frequent. Rich woods south of Amana.

### FAMILY 9. POLYPODIACEAE

- Adiantum pedatum* L. Maiden-hair Fern. Common. Rich woods.  
*Asplenium platyneuron* (L.) Oakes. Ebony Spleenwort. Rare. Specimen in S.U.I. herbarium. Collected by B. Shimek in woods south of Amana.  
*Athyrium filix-femina* (L.) Roth. Lady Fern. Common. Rich woods.  
*Cystopteris fragilis* (L.) Bernh. Fragile Fern. Common. Rich woods.  
*Dryopteris spinulosa* (Muell.) Watt. Toothed Wood Fern. Frequent. Rich woods.  
*Polystichum acrostichoides* (Michx.) Schott. Christmas Fern. Rare. Rich wooded slope south of Amana.  
*Pteris pensylvanica* (Willd.) Fern. Ostrich Fern. Rare. Rich, bottomland woods south of Amana.  
*Pteridium aquilinum* (L.) Kuhn var. *latiusculum* (Desv.) Underw. Bracken Fern. Frequent. Dry sterile woods.  
*Onoclea sensibilis* L. Sensitive Fern. Frequent. Moist woods.  
*Woodsia obtusa* (Spreng.) Torr. Large Woodsia. Rare. Specimen in S.U.I. herbarium. Collected by B. Shimek in woods south of Amana.

## FAMILY 13. PINACEAE

*Juniperus virginiana* L. Red Cedar. Rare. Dry open woods.

## FAMILY 14. TYPHACEAE

*Typha latifolia* L. Common cat-tail. Common. Moist ditches and shallow ponds.

## FAMILY 15. SPARGANIACEAE

*Sparganium eurycarpum* Engelm. Bur-reed. Infrequent. Reported from B. Shimek's field notes.

## FAMILY 16. ZOSTERACEAE

*Potamogeton diversifolius* Raf. Pondweed. Common in old pond along Route 6 one mile east of Ladora.

*Potamogeton pectinatus* L. Sago. Infrequent. Large shallow lotus pond west of Amana.

## FAMILY 19. ALISMACEAE

*Alisma subcordatum* Raf. Mud Plantain. Frequent. Aquatic habits.

*Sagittaria latifolia* Willd. Arrowhead. Common. Shallow ponds, moist ground.

## FAMILY 21. HYDROCHARITACEAE

*Elodea canadensis* Michx. Waterweed. Reported by B. Shimek in his field notes. Aquatic habitat.

## FAMILY 22. GRAMINEAE

*Agropyron repens* (L.) Beauv. Witch Grass. Common. Along roads and railroad embankments.

*Agropyron smithii* Rydb. Bluestem. Frequent. Dry prairie soil.

*Agrostis alba* L. Redtop. Common. Fields and meadows.

*Agrostis alba* L. var. *palustris* (Huds.) Pers. Carpet Bent Grass. Infrequent. Damp places along dirt roads.

*Agrostis hyemalis* (Walt.) BSP. Tickle Grass. Frequent. Fields, meadows, along railroads.

*Agrostis perennans* (Walt.) Tuckerm. Upland Bent. Infrequent. Upland woods south of Amana.

*Alopecurus geniculatus* L. Marsh Foxtail. Rare. In bog on slope above Dutch Lake south of Amana. Introduced.

*Andropogon gerardi* Vitman. Beard Grass. Common. Prairies, along highways and railroads.

*Andropogon scoparius* Michx. Small Bluestem. Frequent. Dry clearings, prairies.

*Aristida basiramia* Engelm. Specimen in S.U.I. herbarium. Collected in sandy prairie.

*Avena sativa* L. Oat. Escaped cultivation along roads at Homestead.

*Bouteloua curtipendula* (Michx.) Torr. Grama Oats. Reported from B. Shimek's field notes.

*Brachelytrum erectum* (Schreb.) Beauv. Frequent. Open woods.

*Bromus inermis* Leyss. Hungarian Brome. Frequent. Roadsides, fields. Introduced.

*Bromus japonicus* Thumb. Frequent. Roadsides and waste places. Introduced.

*Bromus latiglumis* (Shear.) Hitchc. Brome. Infrequent. Rich woods and thickets.

*Bromus purgans* L. Canada Brome. Frequent. Rich woods and thickets.

*Bromus tectorum* L. Cheat. Frequent. Roadsides, waste places. Introduced.

- Calamagrostis canadensis* (Michx.) Nutt. Blue-joint. Common. Moist places, wet meadows.
- Cenchrus pauciflorus* Benth. Sandbur. Frequent. Sand areas.
- Cinna arundinacea* L. Wood Reed. Frequent. Moist open woods.
- Diarrhena americana* Beauv. Rare. Found in cow pasture along North English River.
- Digitaria sanguinalis* (L.) Scop. Crab Grass. Common. Sandy places, along roadsides. Introduced.
- Digitaria ischaemum* (Schreb.) Muhl. Small Crab Grass. Frequent. Roadsides, waste places. Introduced.
- Echinochloa crusgalli* (L.) Beauv. Barnyard Grass. Common. Fields and waste places. Introduced.
- Elymus canadensis* L. Wild Rye. Common. Dry soil along roads and railroads.
- Elymus villosus* Muhl. Slender Wild Rye. Infrequent. Upland woods.
- Elymus virginicus* L. Terrell Grass. Infrequent. Open woods between Homestead and Amana.
- Eragrostis frankii* C.A. Mey. Love Grass. Infrequent. Along Iowa River north of South Amana.
- Eragrostis hypnoides* (Lam.) BSP. Frequent. Moist, sandy shore along Iowa River.
- Eragrostis megastachya* (Koel.) Link. Stink Grass. Frequent. Roadsides and waste places. Introduced.
- Eragrostis pectinacea* (Michx.) Nees. Infrequent. Moist places along Iowa River north of South Amana.
- Eragrostis spectabilis* (Pursh.) Steud. Tumble Grass. Frequent. Along roads and railroads.
- Festuca elatior* L. Meadow Fescue. Infrequent. Meadows and roadsides. Introduced.
- Festuca obtusa* Biehler. Nodding Fescue. Frequent. Moist rich woods.
- Glyceria striata* (Lam.) Hitchc. Fowl Meadow Grass. Frequent. Moist open woods, meadows.
- Hierochloa odorata* (L.) Beauv. Holy Grass. Specimen in S.U.I. herbarium. Collected in boggy places near Homestead by B. Shimek.
- Hordeum jubatum* L. Squirrel-tail Grass. Common. Fields and meadows.
- Hystrix patula* Moench. Bottle Brush Grass. Frequent. Rich Woods.
- Koeleria cristata* (L.) Pers. June Grass. Rare. Dry, sandy prairie west of Homestead.
- Leersia oryzoides* (L.) Sw. Rice Cut-grass. Infrequent. Moist ditches near Homestead.
- Leptoloma cognatum* (Schultes) Chase. Fall Witch-grass. Infrequent. Dry sandy places.
- Muhlenbergia frondosa* (Poir.) Fern. Infrequent. Damp clearings along Iowa River.
- Muhlenbergia sobolifera* (Muhl.) Trin. Infrequent. Sandy area along road east of Homestead.
- Oryzopsis racemosa* (Sm.) Ricker. Mountain Rice. Rare. Rich woods between Homestead and Amana.
- Panicum capillare* L. Witch Grass. Common. Sandy soil along Iowa River.
- Panicum dichotomiflorum* Michx. Frequent. Along Iowa River.
- Panicum lanuginosum* Ell. var. *implicatum* (Schrab.) Fern. Infrequent. Dry open soil.
- Panicum lanuginosum* Ell. var. *fasciculatum* (Torr.) Fern. Common. Dry open soil, pastures.
- Panicum latifolium* L. Frequent. Rich woods.

- Panicum oligosanthos* Schultes var. *scribnerianum* (Nash) Fern. Frequent. Dry woods and prairies.
- Panicum virgatum* L. Switchgrass. Frequent. Dry sandy soils.
- Paspalum ciliatifolium* Michx. var. *stramineum* (Nash) Fern. Frequent. Sandy bank along road east of Homestead.
- Phalaris arundinacea* L. Reed Canary Grass. Infrequent. Growing in shallow water between Marengo and Ladora.
- Phleum pratense* L. Timothy. Common. Fields, roadsides. Introduced.
- Poa compressa* L. Canada Bluegrass. Infrequent. Dry soil. Introduced.
- Poa pratensis* L. Kentucky Bluegrass. Common. Fields, along roads, open woods.
- Setaria faberii* Herrm. Infrequent. Border of woods between Homestead and Amana. Introduced.
- Setaria glauca* (L.) Beauv. Yellow Foxtail. Common. Waste places, roadsides. Introduced.
- Setaria italica* (L.) Beauv. Hungarian Millet. Infrequent. Specimen in S.U.I. herbarium from alluvial ground near Amana. Introduced.
- Setaria viridis* (L.) Beauv. Green Foxtail. Common. Along roads, railroads, waste places. Introduced.
- Setaria verticillata* (L.) Beauv. Reported in B. Shimek's field notes. Introduced.
- Sorghastrum nutans* (L.) Nash. Indian Grass. Specimen in S.U.I. herbarium from a prairie opening north of Homestead. Collected by B. Shimek.
- Spartina pectinata* Link. Fresh Water Cord Grass. Frequent. Along moist river banks, marshy areas.
- Sphenopholis intermedia* Rydb. Specimen in S.U.I. herbarium. Railroad embankment near Marengo.
- Sphenopholis obtusata* (Michx.) Scribn. Rare. Upland woods between Homestead and Amana.
- Sporobolus cryptandrus* (Torr.) Gray Sand Drop Seed. Specimen in S.U.I. Herbarium from prairie area.
- Sporobolus heterolepis* Gray Northern Drop Seed. Specimen in S.U.I. Herbarium from prairie.
- Stipa spartea* Trin. Porcupine Grass. Common locally. Prairie strip west of Homestead, and west of Marengo.
- Zizania aquatica* L. Wild Rice. Reported from B. Shimek's field notes.

## FAMILY 23. CYPERACEAE

- Bulbostyles capillaris* (L.) Clarke. Reported from B. Shimek's field notes.
- Cyperus acuminatus* Torr. and Hook. Reported from B. Shimek's field notes.
- Cyperus diandrus* Torr. Reported from B. Shimek's field notes.
- Cyperus erythrorhizos* Muhl. Reported from B. Shimek's field notes.
- Cyperus esculentus* L. Yellow Nut Grass. Specimen in S.U.I. herbarium. Old dune east of Homestead.
- Cyperus filiculmis* Vahl. Frequent. Sandy areas, dry soil.
- Cyperus inflexus* Muhl. Reported from B. Shimek's field notes.
- Cyperus rivularis* Kunth. Reported from B. Shimek's field notes.
- Cyperus schweinitzii* Torr. Local. Sandy area west of Homestead along Route 6.
- Cyperus strigosus* L. Galingale. Common. Moist ditches and ravines.
- Eleocharis acicularis* (L.) R. & S. Spike Rush. Rare. Marshy ground north of South Amana.
- Eleocharis calva* Torr. Specimen in S.U.I. herbarium. Alluvial soil south of Amana.
- Eleocharis wolfii* Gray. Reported from B. Shimek's field notes.
- Scirpus atrovirens* Willd. Bulrush. Common. Moist ditches and boggy places.

- Scirpus cyperinus* (L.) Kunth. Infrequent. Wet ditch near Homestead.  
*Scirpus fluviatilis* (Torr.) Gray River Bulrush. Reported from B. Shimek's field notes.  
*Scirpus validus* Vahl. Great Bulrush. Rare. Boggy place one mile north of South Amana.  
*Carex amphibola* Steud. var. *turgida* Fern. Frequent. Bottomland along Iowa River.  
*Carex annectens* Bickn. var. *xanthocarpa* (Bickn.) Wieg. Infrequent. Along railroads and highways.  
*Carex atherodes* Spreng. Common. Bottomlands.  
*Carex bebbii* Olney. Frequent. Border of woods, along railroads.  
*Carex bicknellii* Britt. Specimen in S.U.I. herbarium from alluvial ground south of Amana.  
*Carex blanda* Dewey. Woodland Sedge. Common. Rich woods.  
*Carex brevior* (Dewey) Mackenz. Rare. Prairie one mile west of Homestead.  
*Carex cephaloidea* Dewey Rare. Rich woods between Homestead and Amana.  
*Carex cephalophora* Muhl. Oval-headed sedge. Common. Bottomland along Iowa River.  
*Carex cristatella* Britt. Frequent. Low woods, bottomlands.  
*Carex conjuncta* Boott. Frequent. Flood plain north of Marengo.  
*Carex crauei* Dewey Reported from B. Shimek's field notes.  
*Carex crus-corvi* Shuttlw. Reported from B. Shimek's field notes.  
*Carex davisii* Schwein. & Torr. Common. Bottomlands along Iowa River.  
*Carex festucaceae* Schkuhr. Infrequent. Along highways and railroads.  
*Carex gravida* Bailey. Heavy Sedge. Frequent. Along railroads and moist ditches.  
*Carex grayii* Carey. Common. Alluvial habitats.  
*Carex hystericina* Muhl. Porcupine Sedge. Rare. Boggy place north of South Amana.  
*Carex lanuginosa* Michx. Frequent. Alluvial ground east of Homestead.  
*Carex lupulina* Muhl. Hop Sedge. Frequent. Bottomland and wet ditches.  
*Carex meadii* Dewey Common. Prairie, along railroads.  
*Carex molesta* Mackenz. Frequent. Prairie, dry soil.  
*Carex muskingumensis* Schw. Rare. Bottomland along Iowa River northwest of Homestead.  
*Carex normalis* Mackenz. Frequent. Alluvial soil.  
*Carex pensylvanica* Lam. Common. Open woods and prairie.  
*Carex rosea* Schkuhr. Common. Rich woods.  
*Carex sartwellii* Dewey Reported from B. Shimek's field notes.  
*Carex scoparia* Schkuhr. Frequent. Ditches along roads.  
*Carex sparganioides* Muhl. Bur-reed Sedge. Frequent. Rich woods between Homestead and Amana.  
*Carex sprengei* Dewey Frequent. Bottomland in wooded areas south of Amana.  
*Carex stipata* Muhl. Frequent. Around pond east of Homestead.  
*Carex stricta* Lam. Tussock Sedge. Frequent. Moist swales and prairie.  
*Carex tenera* Dewey Rare. Along railroad east of Homestead.  
*Carex tribuloides* Wahlenb. Common. Bottomland along Iowa River and moist swales along railroads.  
*Carex typhina* Michx. Infrequent. Moist ravine in woods south of Amana.  
*Carex vulpinoidea* Michx. Fox Sedge. Common. Bottomland along Iowa River, moist prairie swales.

## FAMILY 24. ARACEAE

- Acorus calamus* L. Sweetflag. Specimen in S.U.I. herbarium. Collected by B. Shimek in marshy area near West Amana.
- Arisaema dracontium* (L.)Schott. Green Dragon. Infrequent. Bottomland south of Amana.
- Arisaema triphyllum* (L.)Schott. Jack-in-the-pulpit. Frequent. Rich woods.
- Symplocarpus foetidus* (L.)Nutt. Skunk Cabbage. Rare. Boggy ravine in woods north of Middle Amana.

## FAMILY 25. LEMNACEAE

- Lemna minor* L. Duckweed. Infrequent. Growing in lotus pond west of Amana.
- Wolffia punctata* Griseb. Reported from B. Shimek's field notes.

## FAMILY 29. COMMELINACEAE

- Tradescantia bracteata* Small Spiderwort. Rare. Along fence in field north of South Amana.
- Tradescantia ohiensis* Raf. Spiderwort. Common. Along roads and in meadows.

## FAMILY 31. JUNCACEAE

- Juncus interior* Weig. Reported from B. Shimek's field notes.
- Juncus nodosus* L. Reported from B. Shimek's field notes.
- Juncus torreyi* Coville. Infrequent. Moist ditches along highways.
- Juncus tenuis* Willd. Path Rush. Common. Open woods, fields, ditches.

## FAMILY 32. LILIACEAE

- Allium canadense* L. Wild Garlic. Frequent. Open woods, along railroads, weedy places.
- Erythronium albidum* Nutt. White Trout Lily. Common. Bottomland south of Amana.
- Lilium michiganense* Farw. Michigan Lily. Infrequent. Along railroad west of Marengo.
- Lilium philadelphicum* L. Wood Lily. Reported from Shimek, 1911.
- Melanthium virginicum* L. Bunchflower. Infrequent. Along railroad west of Marengo, alluvial soil west of Amana.
- Polygonatum canaliculatum* (Muhl.)Pursh. Solomon's-Seal. Common. Rich woods, borders of woods and roadsides.
- Smilacina racemosa* (L.)Desf. False Solomon's-Seal. Common. Moist woods.
- Smilacina stellata* (L.)Desf. Starry False Solomon's-Seal. Frequent. Moist woods and ditches.
- Smilax ecirrhata* (Engelm.)Wats. Frequent. Rich woods.
- Smilax herbacea* L. Carrion-flower. Frequent. Rich woods.
- Smilax lasioneura* Hook. Common. Borders of woods, climbing over fences, flood plain.
- Smilax tamnoides* L. var. *hispida* (Muhl.)Fern. Bristly Greenbrier. Infrequent. Along rivers in fields.
- Trillium flexipes* Raf. Frequent. Cool, damp woods.
- Trillium nivale* Riddell. Snow Trillium. Reported from B. Shimek's field notes.
- Trillium recurvatum* Beck. Infrequent. Bottomland south of Amana.



- Uvularia grandiflora* Smith Large Bellwort. Frequent. Moist rich woods.  
*Veratrum woodii* Robbins False Hellebore. Reported by T. J. Fitzpatrick,  
(1901).

FAMILY 34. DIOSCOREACEAE

- Dioscorea villosa* L. Yam. Frequent. Upland woods.

FAMILY 35. AMARYLLIDACEAE

- Hypoxis hirsuta* (L.) Coville. Yellow Star-grass. Infrequent. Prairie strip  
along railroads.

FAMILY 36. IRIDACEAE

- Iris virginica* L. var. *shrevei* (Small) Anders. Blue Flag. Infrequent. Moist  
ditch along road north of Williamsburg.  
*Sisyrinchium albidum* Raf. Blue-eyed grass. Common. Sandy places, prairies.

FAMILY 39. ORCHIDACEAE

- Cypripedium calceolus* L. var. *pubescens* (Willd.) Correll. Large Yellow Lady  
Slipper. Infrequent. Rich woods.  
*Cypripedium reginae* Walt. Showy Lady Slipper. Specimen in S.U.I. her-  
barium from deep upland woods south of Amana. Collected by B. Shimek.  
*Goodyera pubescens* (Willd.) R. Br. Downy Rattlesnake Plaintain. Rare.  
Two stations in rich woods south of Amana.  
*Habenaria leucophaea* (Nutt.) Gray Prairie White Fringed Orchis. Rare.  
Railway embankment one mile west of Homestead near the prairie plot.  
*Orchis spectabilis* L. Showy Orchis. Frequent. Rich woods.

FAMILY 41. SALICACEAE

- Populus deltoides* Marsh. Cottonwood. Common. Riverbanks, bottomlands.  
*Populus grandidentata* Michx. Large-toothed Aspen. Frequent. Upland  
woods.  
*Populus tremuloides* Michx. Quaking Aspen. Common. Dry open woods.  
*Salix alba* L. White Willow. Reported from B. Shimek's field notes. Intro-  
duced.  
*Salix amygdaloides* Anderss. Peach-leaved Willow. Rare. Along Iowa River  
north of Marengo.  
*Salix cordata* Muhl. Infrequent. Open woods between Homestead and Amana.  
*Salix discolor* Muhl. Pussy Willow. Specimen in S.U.I. herbarium. Collected  
by B. Shimek along road north of Homestead.  
*Salix humilis* Marsh. Infrequent. Prairie strip west of Homestead.  
*Salix interior* Rowlee. Sandbar Willow. Common. Along Iowa River and  
smaller streams.  
*Salix nigra* Marsh. Black Willow. Frequent. Floodplain, moist wooded areas.

FAMILY 44. JUGLANDACEAE

- Carya cordiformis* (Wang.) Koch. Bitternut, Pignut. Frequent. Upland woods.  
*Carya laciniosa* (Michx.) Loud. Kingnut. Infrequent. Numerous trees in  
bottomland south of Amana.  
*Carya ovata* (Mill.) Koch. Shagbark Hickory. Common. Upland woods.  
*Juglans cinerea* L. Butternut. Infrequent. Upland woods.  
*Juglans nigra* L. Black Walnut. Common. Upland woods.

## FAMILY 45. CORYLACEAE

- Betula nigra* L. River Birch. Common. Alluvial habitat.  
*Corylus americana* Walt. American Hazelnut. Common. Upland woods.  
*Ostrya virginiana* (Mill.) Koch. American Hop-hornbean. Common. Upland woods.

## FAMILY 46. FAGACEAE

- Quercus alba* L. White Oak. Common. Upland woods.  
*Quercus bicolor* Willd. Swamp White Oak. Infrequent. Bottomlands., marshy places.  
*Quercus ellipsoidal*s Hill. Jack Oak. Specimen in S.U.I. herbarium. Collected by B. Shimek in upland woods northeast of Homestead.  
*Quercus lyrata* Walt. Swamp Post Oak. Specimen in S.U.I. herbarium. Collected by B. Shinek in alluvial woods south of Amana.  
*Quercus macrocarpa* Michx. Mossy-cup Oak. Common. Upland woods, grazed woodlots.  
*Quercus rubra* L. Red Oak. Common. Upland woods.  
*Quercus velutina* Lam. Black Oak. Common. Upland woods.

## FAMILY 47. ULMACEAE

- Celtis occidentalis* L. Hackberry. Common. Bottomlands.  
*Ulmus americana* L. American Elm. Common. Flood Plains and low woods.  
*Ulmus rubra* Muhl. Slippery Elm. Common. Rich woods.

## FAMILY 48. MORACEAE

- Morus alba* L. White Mulberry. Escape from cultivation along roads and rivers.

## FAMILY 49. CANNABINACEAE

- Cannabis sativa* L. Common Hemp. Common. Along railroads and waste places. Introduced.  
*Humulus lupulus* L. Hop. Reported from B. Shimek's field notes. Introduced.

## FAMILY 50. URTICACEAE

- Boehmeria cylindrica* (L.) Sw. Bog Hemp. Infrequent. Alluvial ground near Homestead.  
*Laportea canadensis* (L.) Wedd. Wood Nettle. Common. Alluvial habitats.  
*Parietaria pensylvanica* Muhl. Pellitory. Frequent. Moist, shady places.  
*Pilea pumila* (L.) Gray Clearweed. Frequent. Bottomlands, low woods.  
*Urtica procera* Muhl. Nettle. Common. Along roads and railroads.

## FAMILY 51. SANTALACEAE

- Commandra umbellata* (L.) Nutt. Bastard Toadflax. Infrequent. Sandy opening above Dutch Lake.

## FAMILY 53. ARISTOLOCHIACEAE

- Asarum canadense* L. Wild Ginger. Common. Rich wooded slopes.

## FAMILY 54. POLYGONACEAE

- Polygonum aviculare* L. Knotweed. Common. Along roads and waste places. Introduced.  
*Polygonum coccineum* Muhl. Infrequent. Growing in shallow pond north of South Amana.

- Polygonum convolvulus* L. Black Bindweed. Specimen in S.U.I. herbarium. Collected by B. Shimek in sandy prairie near Homestead. Introduced.
- Polygonum erectum* L. Infrequent. Along road near Ladora.
- Polygonum hydropiper* L. Common Smartweed. Reported from B. Shimek's field notes.
- Polygonum hydropiperoides* Michx. Mild Water-pepper. Reported from B. Shimek's field notes.
- Polygonum lapathifolium* L. Common. Damp clearings, cultivated fields.
- Polygonum pensylvanicum* L. Pinkweed. Common. Damp fields and along railroads.
- Polygonum persicaria* L. Lady's Thumb. Frequent. Moist ditches and alluvium. Introduced.
- Polygonum ramosissimum* Michx. Bushy Knotweed. Infrequent. Along railroad west of Homestead.
- Polygonum sagittatum* L. Arrow-leaved Tearthumb. Frequent. Moist ditches.
- Polygonum scandens* L. Climbing False Buckwheat. Common. Damp thickets, low woods.
- Rumex acetosella* L. Field Sorrel. Common. Sandy openings, prairies. Introduced.
- Rumex altissimus* Wood. Pale Dock. Common. Along roads, railroads and in fields.
- Rumex crispus* L. Yellow Dock. Reported from Pammel and King, "Weed Flora of Iowa". Introduced.
- Rumex orbiculatus* Gray Water Dock. Reported from B. Shimek's field notes.
- Rumex verticillatus* L. Swamp Dock. Infrequent. Alluvial soil near Homestead.
- Tovara virginiana* (L.) Raf. Jumpseed. Frequent. Moist wooded places, low woods.

## FAMILY 55. CHENOPODIACEAE

- Chenopodium album* L. Lamb's Quarter. Common. Along roads, railroads, waste places. Introduced.
- Chenopodium glaucum* L. Oak-leaved Goosefoot. Infrequent. Along road north of South Amana. Introduced.
- Chenopodium boscianum* Moq. Infrequent. Moist ravine north of Williamsburg.
- Chenopodium leptophyllum* Nutt. Infrequent. Along roads and railroads.
- Cycloloma atriplicifolium* (Spreng.) Coult. Winged Pigweed. Local. Sandy prairie west of Homestead.
- Kochia scoparia* (L.) Roth. Summer Cypress. Reported from Pammel and King, "Weed Flora of Iowa". Introduced.

## FAMILY 56. AMARANTHACEAE

- Acnida altissima* Riddell. Water Hemp. Reported from B. Shimek's field notes. River banks and low ground.
- Amaranthus albus* L. Tumbleweed. Infrequent. Along road north of South Amana.
- Amaranthus graecizans* L. Common. Along roads and in fields.
- Amaranthus hybridus* L. Green Amaranth. Frequent. Along Iowa River and smaller streams. Introduced.
- Amaranthus retroflexus* L. Rough Pigweed. Common. Along roads and waste places. Introduced.
- Froelichia gracilis* (Hook) Moq. Cottonweed. Local. Sandy areas near Homestead.

## FAMILY 57. NYCTAGINACEAE

- Mirabilis nyctaginea* (Michx.) MacM. Four O'clock. Frequent. Along railroads and in prairies.

## FAMILY 58. PHYTOLACCACEAE

- Phytolacca americana* L. Pokeweed. Reported from B. Shimek's field notes.

## FAMILY 59. AIZOACEAE

*Mollugo verticillata* L. Carpetweed. Common. Along roadsides and waste places. Introduced.

## FAMILY 60. PORTULACACEAE

*Claytonia virginica* L. Virginia Spring Beauty. Common. Moist woods and bottomland.  
*Portulaca oleracea* L. Common Purslane. Reported from B. Shimek's field notes. Introduced.

## FAMILY 61. CARYOPHYLLACEAE

*Arenaria lateriflora* L. Grove Sandwort. Reported from B. Shimek's field notes.  
*Cerastium nutans* Raf. Nodding Chickweed. Frequent. Along roadsides, open woods, pastures.  
*Cerastium vulgatum* L. Common Mouse-ear Chickweed. Infrequent. Cow pasture north of Homestead. Introduced.  
*Lychnis alba* Mill. Evening Campion. Frequent. Roadsides, waste places. Introduced.  
*Saponaria officinalis* L. Soapwort. Bouncing Bet. Frequent. Roadsides and waste places. Introduced.  
*Silene antirrhina* L. Sleepy Catchfly. Common. Along railroads and waste places.  
*Silene nivea* (Nutt.) Oth. Snowy Campion. Infrequent. Along North English River, woods north of Middle Amana.  
*Silene stellata* (L.) Ait. f. Starry Campion. Infrequent. Along railroad near Homestead.  
*Stellaria longifolia* Muhl. Starwort. Reported from B. Shimek's field notes.  
*Stellaria meadia* (L.) Cyrillo. Common Chickweed. Reported from B. Shimek's field notes. Introduced.

## FAMILY 62. CERATOPHYLLACEAE

*Ceratophyllum demersum* L. Hornwort. Reported from B. Shimek's field notes.

## FAMILY 63. NYMPHAEACEAE

*Nelumbo lutea* (Willd.) Pers. Yellow Nelumbo. Introduced by Amana Society in pond west of Amana.

## FAMILY 64. RANUNCULACEAE

*Actaea pachypoda* Ell. White Baneberry. Infrequent. Rich woods.  
*Actaea rubra* (Ait.) Willd. Red Baneberry. Frequent. Rich woods.  
*Anemone canadensis* L. Meadow Anemone. Common. Moist meadows and roadsides.  
*Anemone cylindrica* Gray Thimbleweed. Frequent. Along railroads and prairie.  
*Anemone quinquefolia* L. American Wood Anemone. Rare. Moist woods south of Amana.  
*Anemone virginiana* L. Tall Anemone. Frequent. Open woods.  
*Anemone thalictroides* (L.) Spach. Rue Anemone. Common. Upland woods.  
*Aquilegia canadensis* L. American Columbine. Frequent. Rich woods and thickets.  
*Caltha palustris* L. Marsh Marigold. Infrequent. Boggy places in woods south of Amana.  
*Clematis pitcheri* T. & G. Leather Flower. Frequent. Flood plain along Iowa River.  
*Clematis virginiana* L. Virgin's Bower. Specimen in S.U.I. herbarium. Collected by B. Shimek in alluvial woods near Dutch Lake.

- Delphinium virescens* Nutt. var. *penardi* (Huth.) Perry. Larkspur. Reported from B. Shimek's field notes.
- Hepatica acutiloba* D. C. Hepatica. Common. Rich woods.
- Ranunculus abortivus* L. Small-flowered Buttercup. Common. Bottomlands.
- Ranunculus acris* L. Tall Buttercup. Specimen in S.U.I. herbarium. Collected by B. Shimek in sandy area above Dutch Lake. Introduced.
- Ranunculus fascicularis* Muhl. Early Buttercup. Infrequent. Grazed woodlot west of South Amana.
- Ranunculus flabellaris* Raf. Yellow Water-buttercup. Specimen in S.U.I. herbarium. Collected by B. Shimek in alluvial pond northwest of Homestead.
- Ranunculus sceleratus* L. Cursed Crowfoot. Specimen in S.U.I. herbarium. Collected by B. Shimek in low places north of Homestead.
- Ranunculus septentrionalis* Poiv. Swamp Buttercup. Common. Bottomlands.
- Thalictrum dasycarpum* Fisch. & Lall. Purple Meadow-Rue. Infrequent. Along roads and railroads.

## FAMILY 65. BERBERIDACEAE

- Caulophyllum thalictroides* (L.) Michx. Blue Cohosh. Common. Rich woods.
- Podophyllum peltatum* L. Mayapple. Frequent. Open woods, meadows.

## FAMILY 66. MENISPERMACEAE

- Menispermum canadense* L. Moonseed. Common, Rich woods.

## FAMILY 71. PAPAVERACEAE

- Dicentra cucullaria* (L.) Burnh. Dutchman's Breeches. Common. Moist rich woods.
- Chelidonium majus* L. Celandine. Rare. Rich woods north of Middle Amana. Introduced.
- Sanquinaria canadensis* L. Bloodroot. Common. Rich woods.

## FAMILY 72. CAPPARIDACEAE

- Polansia graveolens* Raf. Clammyweed. Frequent. Railway embankments.

## FAMILY 73. CRUCIFERAE

- Armoracia lapathifolia* Gilib. Horseradish. Infrequent. Moist ground along railroad east of Homestead. Introduced.
- Berteroa incana* (L.) D.C. Hoary Alyssum. Reported from B. Shimek's field notes. Introduced.
- Barbarea vulgaris* R. Br. Bitter Wintercress. Frequent. Moist ditches along roads. Introduced.
- Brassica kaber* (DC.) Wheeler. Crunchweed. Reported from B. Shimek's field notes. Introduced.
- Brassica nigra* (L.) Koch. Black Mustard. Common. Waste places, fields. Introduced.
- Capsella bursa-pastoris* (L.) Medic. Shephard's Purse. Common. Along roads and in waste places.
- Cardamine bulbosa* (Schreb.) BSP. Bulb Bittercress. Frequent. Alluvial soil in woods, bottomlands.
- Cardamine douglasii* (Torr.) Britt. Northern Bittercress. Infrequent. Bottomland south of Amana.
- Cardamine pennsylvanica* Muhl. Infrequent. Bottomland south of Amana.
- Conringia orientalis* (L.) Dumort. Hares-ear Mustard. Rare. Along railroad west of Marengo. Introduced.
- Camelina sativa* (L.) Crantz. False Flax. Infrequent. Along railroad west of Marengo. Introduced.
- Dentaria laciniata* Muhl. Toothwort. Frequent. Moist woods and bottomlands.
- Descurainia sophia* (L.) Webb. Infrequent. Along railroad and prairie. Introduced.

- Draba reptans* (Lam.) Fern. Reported from B. Shimek's field notes.  
*Erysimum cheiranthoides* L. Wormseed Mustard. Reported from B. Shimek's field notes. Introduced.  
*Iodanthus pinnatifidus* (Michx.) Steud. Purple Rocket. Rare. Moist ditch in pasture northwest of Homestead.  
*Lepidium campestre* (L.) R. Br. Cow Cress. Frequent. Roadsides, waste places. Introduced.  
*Lepidium densiflorum* Schrad. Frequent. Along railroads, waste places. Introduced.  
*Lepidium virginicum* L. Common Peppergrass. Common. Along railroads, waste places.  
*Rorippa islandica* (Oeder) Borbas. Yellow Cress. Common. Wet ditches, muddy places, shallow water.  
*Sisymbrium altissimum* L. Tumble Mustard. Frequent. Along roads, railroads, prairies. Introduced.  
*Thlaspi arvense* L. Pennycress. Common. Roadsides, waste places. Introduced.

## FAMILY 79. SAXIFRAGACEAE

- Heuchera richardsonii* R. Br. var. *grayana* Rosen., Britt., & Lak. Infrequent. Prairie west of Homestead.  
*Penthorum sedoides* L. Ditch Stonecrop. Frequent. Moist ditches.  
*Ribes americanum* Mill. Wild Black Current. Infrequent. Rich woods.  
*Ribes cynosbati* L. Prickly Gooseberry. Common. Fields, open woods, sandy places.  
*Ribes missouriense* Nutt. Missouri Gooseberry. Frequent. Open woods, pastures.  
*Saxifraga pensylvanica* L. Saxifrage. Frequent. Moist ravines in woods.

## FAMILY 81. PLATANACEAE

- Platanus occidentalis* L. Sycamore. Infrequent. Bottomland along Iowa River south of Amana.

## FAMILY 82. ROSACEAE

- Agrimonia gryposepala* Wallr. Agrimony. Common. Upland woods.  
*Agrimonia parviflora* Ait. Infrequent. Near lotus pond in field west of Amana.  
*Agrimonia rostollata* Wallr. Collected once in open woods north of Middle Amana.  
*Amelanchier arborea* (Michx. f.) Fern. Shadbush. Common. Rich woods.  
*Crataegus margareta* Ashe. Infrequent. Fields and pastures.  
*Crataegus mollis* (T. & G.) Scheele. Common. Open woods and bottomlands.  
*Fragaria virginiana* Duchesne. Strawberry. Common. Roadsides and fields.  
*Geum canadense* Jacq. White Avens. Common. Open woods.  
*Geum laciniatum* Murr. Infrequent. In field north of South Amana.  
*Potentilla argentea* L. Silvery Cinquefoil. Infrequent. Along Route 149 north of Williamsburg.  
*Potentilla arguta* Pursh. Tall Cinquefoil. Frequent. Along railroads, sandy places.  
*Potentilla norvegica* L. Rough Cinquefoil. Frequent. Along railroads and sandy places.  
*Potentilla simplex* Michx. Frequent. Along roads and railroads, in fields.  
*Prunus serotina* Ehrh. Black Cherry. Common. Upland woods.  
*Prunus virginiana* L. Choke Cherry. Common. Rich woods.  
*Pyrus ioensis* (Wood) Bailey Wild Crab. Frequent. Open woods, sandy places.  
*Pyrus malus* L. Apple. Escape from cultivation along dirt roads. Introduced.  
*Rosa arkansana* Porter var. *suffulta* (Greene) Cockerel. Infrequent. Along dirt roads, prairie.  
*Rosa blanda* Ait. Meadow Rose. Infrequent. Sandy area above Dutch Lake.  
*Rosa carolina* L. Pasture Rose. Common. Sandy places and prairie.  
*Rosa woodsii* Lindl. Specimen in S.U.I. herbarium. Collected by B. Shimek on sandy prairie west of Homestead.

*Rubus alleghaniensis* Porter. Blackberry. Frequent. Along woodland roads.  
*Rubus flagellaris* Willd. Dewberry. Infrequent. Along woodland road in woods south of Amana.  
*Rubus occidentalis* L. Black Raspberry. Frequent. Open woods.  
*Spiraea alba* Du Roi. Meadow Sweet. Specimen in S.U.I. herbarium. Collected by B. Shimek in a moist meadow.

### FAMILY 83. LEGUMINOSAE

*Amorpha canescens* Pursh. Lead Plant. Infrequent. Prairie west of Homestead.  
*Amorpha fruticosa* L. Indigo Bush. Specimen in S.U.I. herbarium. Collected by B. Shimek near Amana.  
*Amphicarpa bracteata* (L.) Fern. Hog-peanut. Infrequent. Woods north of Middle Amana.  
*Apios americana* Medic. Groundnut. Rare. Collected once along railroad west of Homestead.  
*Astragalus canadensis* L. Milk Vetch. Infrequent. Prairie swales along railroads.  
*Baptisia leucantha* T. & G. White False Indigo. Infrequent. Open woods, meadows.  
*Baptisia leucophaea* Nutt. Cream Wild Indigo. Rare. Prairie west of Homestead.  
*Cassia fasciculata* Michx. Prairie Senna. Common. Along roads, railroads, sandy soil.  
*Crotolaria sagittalis* L. Rattlebox. Rare. Sandy prairie west of Homestead.  
*Desmodium canadense* (L.) DC. Tick Clover. Common. Along roads, fields.  
*Desmodium cuspidatum* (Muhl.) Loud. Rare. Upland woods north of Middle Amana.  
*Desmodium glutinosum* (Muhl.) Wood. Tick Trefoil. Common. Dry woods.  
*Desmodium illinoense* Gray. Common. Along roads, prairies, fields.  
*Gleditsia triacanthos* L. Honey Locust. Infrequent. Flood plains.  
*Glycyrrhiza lepidota* (Nutt.) Pursh. Wild Licorice. Reported by Shimek, (1911).  
*Lathyrus palustris* L. Vetchling. Rare. Along railroad west of Homestead.  
*Lespedeza capitata* Michx. Bush Clover. Rare. Prairie west of Homestead.  
*Medicago lupulina* L. Black Medic. Frequent. Along roads, waste places. Introduced.  
*Medicago sativa* L. Alfalfa. Common. Roadsides. Escaped cultivation.  
*Melilotus alba* Desr. White Sweet Clover. Common. Roadsides and fields. Introduced.  
*Melilotus officinalis* (L.) Lam. Yellow Sweet Clover. Common. Roadsides and fields. Introduced.  
*Petalostemum candidum*. (Willd.) Michx. White Prairie Clover. Infrequent. Prairie west of Homestead.  
*Petalostemum purpureum* (Vent.) Rydb. Purple Prairie Clover. Frequent on prairie west of Homestead.  
*Psoralea psoraliioides* (Walt.) Cary. Sampson's Snakeroot. Reported from B. Shimek's field notes.  
*Strophostyles helvola* (L.) Ell. Wild Bean. Common. Sandy places, prairies, roadsides.  
*Strophostyles leiosperma* (T. & G.) Piper. Specimen in S.U.I. herbarium. Collected by B. Shimek on sandy prairie.  
*Tephrosia virginiana* (L.) Pers. Goat's Rue. Specimen in S.U.I. herbarium. Prairie borders.  
*Trifolium arvense* L. Rabbit-foot Clover. Reported from B. Shimek's field notes. Introduced.  
*Trifolium hybridum* L. Alsike Clover. Common. Roadsides, clearings. Introduced.  
*Trifolium pratense* L. Red Clover. Common. Roadsides, clearings. Introduced.  
*Trifolium procumbens* L. Low Hop-clover. Rare. Collected in school lot north of South Amana. Introduced.

- Trifolium repens* L. White Clover. Frequent. Roadsides, pastures.  
*Vicia americana* Muhl. Vetch. Reported from B. Shimek's field notes.  
*Vicia villosa* Roth. Hairy Vetch. Specimen in S.U.I. herbarium. Victor.  
 Introduced.

## FAMILY 84. LINACEAE

- Linum sulcatum* Riddell. Flax. Reported by Shimek, (1911).  
*Linum usitatissimum* L. Common Flax. Reported from B. Shimek's field  
 notes. Introduced.

## FAMILY 85. OXALIDACEAE

- Oxalis europæa* Jord. Common Wood Sorrel. Common. Along roads, fields,  
 waste places.  
*Oxalis stricta* L. Upright Yellow Wood Sorrel. Infrequent. Along railroads,  
 pastures.  
*Oxalis violacea* L. Violet Wood Sorrel. Frequent. Prairies and sandy places.

## FAMILY 86. GERANIACEAE

- Geranium maculatum* L. Wild Geranium. Common. Rich woods.

## FAMILY 88. RUTACEAE

- Xanthoxylum americanum* Mill. Northern Prickly Ash. Frequent. Rich  
 woods.

## FAMILY 91. POLYGALACEAE

- Polygala incarnata* L. Milkwort. Specimen in S.U.I. herbarium. Sandy  
 prairie.  
*Polygala sanguinea* L. Reported by Shimek, (1911).  
*Polygala senega* L. Seneca Snakeroot. Infrequent. Prairie strip along rail-  
 road west of Marengo.  
*Polygala verticillata* L. Reported from B. Shimek's field notes.

## FAMILY 92. EUPHORBIACEAE

- Acalypha rhomboidea* Raf. Three-seeded Mercury. Common. Cool, moist  
 places in woods and ditches.  
*Croton glandulosus* L. var *septentrionalis* Muell. Sand Croton. Infrequent.  
 Sandy places near Homestead.  
*Euphorbia corollata* L. Flowering Spurge. Common. Along railroads, prairie.  
*Euphorbia cyperissias* L. Cypress Spurge. Escaped from cultivation along  
 road near High Amana.  
*Euphorbia dentata* Michx. Infrequent. Along railroad west of Homestead.  
*Euphorbia maculata* L. Eyebane. Common. Along roads, waste places.  
*Euphorbia marinata* Pursh. Snow-on-the-mountain. Rare. Near lotus pond  
 west of Amana.  
*Euphorbia supina* Raf. Milk Purslane. Common. Roadsides, waste places.

## FAMILY 97. ANACARDIACEAE

- Rhus glabra* L. Smooth Sumac. Frequent. Prairie, sandy places.  
*Rhus radicans* L. Poison Ivy. Observed throughout county.

## FAMILY 100. CELASTRACEAE

- Celastrus scandens* L. Climbing Bittersweet. Frequent. Rich woods.  
*Euonymus atropurpureus* Jacq. Wahoo. Frequent. Open woods and thickets.

## FAMILY 101. STAPHYLEACEAE

- Staphylea trifolia* L. American Bladdernut. Infrequent. Rich wooded slope  
 near Dutch Lake.



## FAMILY 102. ACERACEAE

- Acer nigrum* Michx. f. Black Maple. Frequent. Rich woods.  
*Acer negundo* L. Box Elder. Frequent. Riverbanks, bottomlands.  
*Acer saccharinum* L. Silver Maple. Common. Riverbanks, floodplains.

## FAMILY 105. BALSAMINACEAE

- Impatiens capensis* Meerb. Jewelweed. Common. Moist or soggy ravines in woods.  
*Impatiens pallida* Nutt. Pale Touch-me-not. Common. Moist ravines and alluvial ground.

## FAMILY 106. RHAMNACEAE

- Ceanothus americanus* L. New Jersey Tea. Frequent. Prairie, along roads, open woods.  
*Rhamnus lanceolata* Pursh. Lance-leaved Buckthorn. Rare. Along road in Amana Woods south of Amana.

## FAMILY 107. VITACEAE

- Parthenocissus quinquefolia* (L.) Planch. Virginia Creeper. Common. Roadsides, open woods.  
*Vitis riparia* Michx. Riverbank Grape. Common. Along Iowa River and smaller streams.

## FAMILY 108. TILIACEAE

- Tilia americana* L. American Basswood. Common. Upland woods, sometimes in moist situations.

## FAMILY 109. MALVACEAE

- Abutilon theophrasti* Medic. Indian Mallow. Common. Sandy soil, waste places. Introduced.  
*Althaea rosea* Cav. Garden Hollyhock. Escaped from cultivation. Along Route 6 near Ladora.  
*Hibiscus militaris* Cav. Halbred-leaved Rose Mallow. Reported by Shimek, (1948).  
*Malva neglecta* Wallr. Mallow. Frequent. Roadsides, waste places. Introduced.

## FAMILY 111. GUTTIFERAE

- Hypericum mutilum* L. Specimen in S.U.I. herbarium. Collected by B. Shimek in a bog at Homestead.  
*Hypericum perforatum* L. Common Saint Johnswort. Infrequent. Along roadside in sand near Homestead. Introduced.  
*Hypericum punctatum* Lam. Spotted Saint Johnswort. Infrequent. Upland woods north of Middle Amana.  
*Hypericum pyramidatum* Ait. Great Saint Johnswort. Reported from B. Shimek's field notes.  
*Hypericum sphaerocarpum* Michx. Rare. Along railroad at Homestead.

## FAMILY 114. CISTACEAE

- Helianthemum bicknellii* Fern. Frostweed. Rare. On prairie one mile west of Homestead.

## FAMILY 115. VIOLACEAE

- Viola fimbriatula* Sm. Specimen in S.U.I. herbarium. Collected in dry woods.  
*Viola missouriensis* Greene. Common. Bottomland south of Amana.  
*Viola pallens* (Banks) Brainerd. Specimen in S.U.I. herbarium. Collected in bog above Dutch Lake by B. Shimek.

- Viola papilionacea* Pursh. Butterfly Violet. Common. Damp woods, meadows, roadsides.
- Viola pedata* L. Birdfoot Violet. Infrequent. Sandy opening above Dutch Lake, dry hillsides.
- Viola pedatifida* Don. Prairie Violet. Infrequent. Prairie west of Homestead.
- Viola pedatifida* Don. x *Viola papilionacea* Pursh. Rare. A hybrid found on prairie along railroad west of Marengo.
- Viola pensylvanica* Michx. Smooth Yellow Violet. Frequent. Bottomland and moist woods.
- Viola pubescens* Ait. Downy Yellow Violet. Infrequent. Moist woods south of Amana.
- Viola sororia* Willd. Downy Blue Violet. Frequent. Rich moist woods.

## FAMILY 121. LYTHRACEAE

- Lythrum elatum* Pursh. Common Loosestrife. Frequent. Moist ditches and bottomland.
- Peplis diandra* Nutt. Water Purslane. Rare. In pond along railroad east of Homestead.

## FAMILY 125. ONAGRACEAE

- Circaea quadrisulcata* (Maxim.) French & Sav. var. *canadensis* (L.) Hara. Enchanter's Nightshade. Common. Rich woods.
- Gaura biennis* L. Gaura. Specimen in S.U.I. herbarium. Collected on sandy prairie.
- Ludwigia alternifolia* L. Seedbox. Infrequent. Moist ditch near Homestead.
- Ludwigia polycarpa* Short & Peter. Specimen in S.U.I. herbarium. Collected by B. Shimek in a bog near Homestead.
- Oenothera biennis* L. Common Evening Primrose. Common. Roadsides, fields, waste places.
- Oenothera rhombipetala* Nutt. Frequent. Sandy places, prairie.
- Oenothera serrulata* Nutt. Rare. Sandy soil west of Homestead.

## FAMILY 128. ARALIACEAE

- Aralia nudicaulis* L. Wild Sarsaparilla. Common. Upland woods.
- Aralia racemosa* L. American Spikenard. Rare. Rich woods south of Amana.
- Panax quinquefolia* L. Ginseng. Rare. Rich woods south of Amana.

## FAMILY 129. UMBELLIFERAE

- Chaerophyllum procumbens* (L.) Crantz. Chervil. Common. Bottomland south of Amana.
- Cicuta maculata* L. Spotted cowbane. Reported by Shimek, (1948).
- Cryptotaenia canadensis* (L.) DC. Honewort. Common. Alluvial woods.
- Daucus carota* L. Carrot. Infrequent. Along railroads, waste places. Introduced.
- Eryngium yuccifolium* Michx. Rattlesnake Master. Rare. Prairie west of Homestead.
- Osmorhiza claytoni* (Michx.) Clarke. Sweet Cicely. Common. Rich woods.
- Pastinaca sativa* L. Parsnip. Common. Roadsides, waste places. Introduced.
- Perideridia americana* (Nutt.) Reichenb. Reported from B. Shimek's field notes.
- Sanicula gregaria* Bickn. Black Snakeroot. Common. Rich woods.
- Sanicula canadensis* L. Reported from B. Shimek's field notes.
- Sium suave* Walt. Water Parsnip. Infrequent. Moist ditches and ravines.
- Thaspium trifoliatum* (L.) Britt. Meadow Parsnip. Infrequent. Moist places along roads and railroads.
- Zizia aurea* (L.) Koch. Golden Alexanders. Frequent. Border of woods.

## FAMILY 130. CORNACEAE

- Cornus alternifolia* L. f. Pagoda Dogwood. Common. Rich woods.  
*Cornus drummondii* Meyer. Rough-leaved Dogwood. Frequent. Damp woods and bottomlands.  
*Cornus obliqua* Raf. Silky Dogwood. Rare. Bottomland south of Amana.  
*Cornus racemosa* Lam. Gray Dogwood. Common. Woods and woodland borders.  
*Cornus stolonifera* Michx. Red-osier Dogwood. Rare. Collected once along woodland road south of Amana.

## FAMILY 132. PYROLACEAE

- Pyrola elliptica* Nutt. Shinleaf. Rare. Upland woods north of Middle Amana.

## FAMILY 135. PRIMULACEAE

- Androsace occidentalis* Pursh. Reported from B. Shimek's field notes.  
*Dodecatheon meadia* L. Shooting Star. Reported by Shimek, (1911).  
*Lysimachia ciliata* L. Fringed Loosestrife. Common. Ditches along roads, prairie, pastures.

## FAMILY 141. OLEACEAE

- Fraxinus americana* L. White Ash. Common. Upland woods.  
*Fraxinus nigra* L. Black Ash. Infrequent. Upland woods.  
*Fraxinus pensylvanica* Marsh. Green Ash. Infrequent. Bottomland along Iowa River.

## FAMILY 143. GENTIANACEAE

- Gentiana andrewsii* Griseb. Closed Gentian. Rare. Moist ditch north of Homestead, damp places.  
*Gentiana crinita* Froel. Fringed Gentian. Reported from B. Shimek's field notes.  
*Gentiana flavida* Gray. Yellowish Gentian. Rare. Along woodland road south of Amana.  
*Gentiana puberula* Michx. Downy Gentian. Rare. Prairie one mile west of Homestead.  
*Gentiana saponaria* L. Soapwort Gentian. Reported from B. Shimek's field notes.

## FAMILY 144. APOCYNACEAE

- Apocynum androsaemifolium* L. Spreading Dogbane. Rare. Along Route 149 north of Homestead.  
*Apocynum cannabinum* L. Indian Hemp. Infrequent. Along roads and railroads.

## FAMILY 145. ASCLEPIADACEAE

- Asclepias amplexicaulis* Sm. Rare. Prairie one mile west of Homestead.  
*Asclepias incarnata* L. Swamp Milkweed. Infrequent. Moist places around ponds, bottomlands.  
*Asclepias ovalifolia* Dcne. Reported by Shimek, (1911).  
*Asclepias purpurascens* L. Purple Milkweed. Infrequent. Roadsides and fields.  
*Asclepias syriaca* L. Common Milkweed. Common. Roadsides, fields.  
*Asclepias tuberosa* L. Butterfly Weed. Frequent. Along roads and railroads.  
*Asclepias verticillata* L. Horsetail Milkweed. Common. Along railroads, prairie.

## FAMILY 146. CONVULVULACEAE

- Convolvulus sepium* L. Hedge Bindweed. Common. Roadsides and ditches.  
*Convolvulus spithameus* L. Low Bindweed. Reported from B. Shimek's field notes.

- Cuscuta glomerata* Choisy. Dodder. Reported from B. Shimek's field notes.  
*Cuscuta gronovii* Willd. Dodder. Rare. One large patch along railroad east of Homestead.  
*Ipomoea purpurea* (L.) Roth. Common Morning Glory. Reported from B. Shimek's field notes. Introduced.

## FAMILY 147. POLEMONIACEAE

- Phlox divaricata* L. Blue Phlox. Common. Open woods.  
*Phlox pilosa* L. Downy Phlox. Common. Sandy areas, prairie.  
*Polemonium reptans* L. Creeping Polemonium. Common. Upland woods.

## FAMILY 148. HYDROPHYLLACEAE

- Ellisia nyctelea* L. Ellisia. Common. Roadsides, waste places.  
*Hydrophyllum virginianum* L. Virginia Waterleaf. Common. Moist woods.

## FAMILY 149. BORAGINACEAE

- Cynoglossum officinalis* L. Common Hound's Tongue. Rare. Found in field in southern part of county.  
*Hackelia virginiana* (L.) Johnston. Beggar's Lice. Common. Moist woods, fields.  
*Lappula echinata* Gilib. Sticktight. Reported from B. Shimek's field notes.  
*Lithospermum canescens* (Michx.) Lehm. Puccoon. Frequent. Prairie, sandy places.  
*Lithospermum croceum* Fern. Frequent. Prairie west of Homestead.  
*Lithospermum incisum* Lehm. Reported by Shimek, (1911).  
*Mertensia virginica* (L.) Link. Virginia Bluebells. Infrequent. Wooded slope in Amana Woods.  
*Onosmodium occidentale* Mackenz. False Gromwell. Rare. Amana woods south of Amana.

## FAMILY 150. VERBENACEAE

- Lippia lanceolata* Michx. Fog-fruit. Common. Bottomland along Iowa River.  
*Verbena bracteata* Lag. & Rodr. Common. Roadsides, fields, waste places.  
*Verbena hastata* L. Blue Vervain. Infrequent. Opening above Dutch Lake.  
*Verbena stricta* Vent. Hoary Vervain, Common. Roadsides, along railroads, fields.  
*Verbena urticifolia* L. White Vervain. Common. Fields and waste places.

## FAMILY 151. LABIATAE

- Agastache nepetoides* (L.) Ktze. Yellow Giant Hyssop. Rare. Moist ravine in Amana Woods.  
*Blephilia hirsuta* (Pursh.) Benth. Wood Mint. Frequent. Along railroads, fields.  
*Glechoma hederacea* L. Ground Ivy. Infrequent. Moist shady places in fields. Introduced.  
*Medeoma hispida* Pursh. Mock Pennyroyal. Rare. Along railroad at Homestead.  
*Lamium amplexicaule* L. Henbit. Reported from B. Shimek's field notes. Introduced.  
*Leonurus cardiaca* L. Common Motherwort. Infrequent. Moist ravine in Amana woods. Introduced.  
*Lycopus americanus* Muhl. Water Horehound. Rare. Moist ravine north of Williamsburg.  
*Lycopus virginicus* L. Horehound. Infrequent. Moist ditch along Route 6 near Homestead.  
*Mentha arvensis* L. var. *villosa* (Benth.) Stewart. Infrequent. Moist ground near Homestead.

- Mentha piperita* L. Peppermint. Reported from B. Shimek's field notes. Introduced.
- Mentha spicata* L. Spearmint. Reported from B. Shimek's field notes. Introduced.
- Monarda fistulosa* L. Wild Bergamot. Common. Along railroads, in fields.
- Nepeta cataria* L. Catnip. Reported by Pammel and King, (1926). Introduced.
- Physostegia virginiana* (L.) Benth. var. *speciosa* (Sw.) Gray. False Dragon-head. Rare. Moist ravine near Homestead.
- Prunella vulgaris* L. Heal-all. Common. Roadsides, fields, waste places. Introduced.
- Pycnanthemum tenuifolium* Schrad. Mountain Mint. Common. Along roads, ditches.
- Pycnanthemum pilosum* Nutt. Infrequent. Open woods, sandy places.
- Scutellaria lateriflora* L. Mad-dog Skullcap. Rare. Bog on slope above Dutch Lake.
- Scutellaria ovata* Hill. var. *versicolor* (Nutt.) Fern. Reported from B. Shimek's field notes.
- Stachys palustris* L. Woundwort. Infrequent. Along roads, in fields.
- Stachys tenuifolia* Willd. Hedge Nettle. Common. Moist ravines, bottomlands.
- Teuchrium canadense* L. Wood Sage. Common. Rich woods, bottomlands.

## FAMILY 152. SOLANACEAE

- Datura stramonium* L. Jimsonweed. Reported from B. Shimek's field notes. Introduced.
- Physalis heterophylla* Nees. Ground Cherry. Infrequent. Along railroads, in fields.
- Physalis pruinosa* L. Rare. Prairie west of Homestead.
- Physalis pubescens* L. Reported by Shimek, (1911).
- Physalis subglabrata* Mackenz. & Bush. Rare. Along railroad west of Homestead.
- Physalis virginiana* Mill. Reported by Pammel and King, (1926).
- Solanum carolinense* L. Horse Nettle. Common. Sandy openings, fields, waste places.
- Solanum nigrum* L. Black Nightshade. Frequent. Woods, fields, grasslands. Introduced.
- Solanum rostratum* Dunal. Buffalo Bur. Reported by Pammel and King, (1926).

## FAMILY 153. SCROPHULARIACEAE

- Castilleja coccinea* (L.) Spreng. Scarlet Painted Cup. Reported from B. Shimek's field notes.
- Chelone glabra* L. Turtlehead. Rare. Moist ravine in Amana Woods.
- Gerardia tenuifolia* Vahl. Rare. Woodland road in Amana Woods.
- Linaria vulgaris* Hill. Butter-and-eggs. Reported by Pammel and King, (1926).
- Lindernia dubia* (L.) Pennell. False Pimpernel. Rare. Moist sandy bank along Iowa River.
- Mimulus ringens* L. Monkey Flower. Common. Alluvial ground.
- Pedicularis lanceolata* Michx. Lousewort. Specimen in S.U.I. herbarium. Collected in low boggy places.
- Pedicularis canadensis* L. Early Woodbetony. Frequent. Moist wooded slopes south of Amana.
- Penstemon digitalis* Nutt. Beard Tongue. Rare. Along Route 6 at Homestead.
- Scrophularia lanceolata* Pursh. Figwort. Infrequent. Prairie strip west of Marengo.
- Scrophularia marilandica* L. Carpenter's Square. Frequent. Moist ravines, bottomlands.
- Verbascum blattaria* L. Moth Mullein. Reported by Pammel and King, (1926). Introduced.

*Verbascum thapsus* L. Common Mullein. Common. Roadsides, waste places. Introduced.

*Veronica peregrina* L. Purslane Speedwell. Common. Roadsides and waste places.

*Veronicastrum virginicum* (L.) Farw. Culver's Root. Infrequent. Along railroads in weedy places.

#### FAMILY 158. ACANTHACEAE

*Ruellia humilis* Nutt. Ruellia. Infrequent. Roadsides and fields.

#### FAMILY 159. PHRYMACEAE

*Phryma leptostachya* L. Lopseed. Common. Rich woods and thickets.

#### FAMILY 160. PLANTAGINACEAE

*Plantago aristata* Michx. Bracted Plantain. Frequent. Sandy places, prairie.

*Plantago purshii* R. & S. Rare. Prairie west of Homestead.

*Plantago rugellii* Dcne. Common. Roadsides and waste places.

#### FAMILY 161. RUBIACEAE

*Cephalanthus occidentalis* L. Buttonbush. Common. Alluvial ground.

*Galium aparine* L. Cleavers. Common. Moist woods, alluvial soil.

*Galium circaezans* Michx. Wild Licorice. Common. Woodlands.

*Galium concinnum* T. & G. Common. Woodlands.

*Galium obtusum* Bigel. Rare. Moist ravine east of Homestead.

*Galium triflorum* Michx. Sweet-scented Bedstraw. Rare. Amana Woods.

#### FAMILY 162. CAPRIFOLIACEAE

*Lonicera dioica* L. Honeysuckle. Rare. Alluvial woodland in southern part of county.

*Lonicera sempervirens* L. Coral Honeysuckle. Reported from B. Shimek's field notes. Introduced.

*Sambucus canadensis* L. Common Elder. Infrequent. Along North English River.

*Triosteum perfoliatum* L. Horse Gentian. Frequent. Fields and pastures.

*Viburnum lentago* L. Nannyberry. Rare. Woodland road south of Amana.

*Viburnum opulus* L. Geulder-Rose. Reported from B. Shimek's field notes. Introduced.

*Viburnum prunifolium* L. Black Haw. Reported from B. Shimek's field notes.

#### FAMILY 166. CUCURBITACEAE

*Echinocystis lobata* (Michx.) T. & G. Reported from B. Shimek's field notes.

#### FAMILY 167. CAMPANULACEAE

*Campanula merciana* L. Bellflower. Common. Alluvial ground, railway embankments.

*Campanula rotundifolia* L. Harebell. Reported from B. Shimek's field notes.

*Lobelia cardinalis* L. Cardinal Flower. Reported by Shimek, (1948).

*Lobelia siphilitica* L. Great Lobelia. Frequent. Moist ditches.

*Lobelia spicata* Lam. Spike Lobelia. Common. Rich meadows and fields.

*Specularia perfoliata* (L.) A. DC. Venus's Looking Glass. Infrequent. Along railroad west of Marengo.

## FAMILY 168. COMPOSITAE

- Achillea millefolium* L. Common Yarrow. Common. Roadsides and fields.  
*Ambrosia artemisiifolia* L. Common Ragweed. Common. Roadsides, waste places.  
*Ambrosia trifida* L. Giant Ragweed. Common. Alluvial soil, waste places.  
*Anaphalis margaritacea* (L.) Clarke. Pearly Everlasting. Common. Sandy places, pastures.  
*Antennaria neglecta* Greene. Pussytoes. Rare. Prairie west of Homestead.  
*Antennaria plantaginifolia* (L.) Richards. Common. Sandy roadsides, woods, fields.  
*Anthemis cotula* L. Dog-fennel. Common. Roadsides and waste places. Introduced.  
*Artemisia ludoviciana* Nutt. White Sage. Rare. Along railroad west of Homestead.  
*Aster azureus* Lindl. Rare. Prairie west of Homestead.  
*Aster cordifolius* L. Rare. Border of Amana Woods.  
*Aster ericoides* L. Frequent. Open woods, prairie.  
*Aster laevis* L. Frequent. Open woods, along roads.  
*Aster lateriflorus* (L.) Britt. Frequent. Open woods, fields.  
*Aster novae-angliae* L. New England Aster. Infrequent. Moist ditches along road north of Homestead.  
*Aster ontarionis* Wieg. Infrequent. Along Iowa River north of South Amana.  
*Aster pilosus* Willd. Rare. Sandy soil west of Homestead.  
*Aster praealtus* Poir. Infrequent. Along roads and railroads.  
*Aster puniceus* L. var. *firmus* (Nees) T. & G. Rare. Moist ground along road north of Williamsburg.  
*Aster sagittifolius* Wedemeyer. Common. Dry open woods, fields.  
*Aster sagittifolius* Wedem. var. *drummondii* (Lindl.) Shinn. Infrequent. Border of Amana Woods.  
*Aster sericeus* Vent. Rare. Prairie west of Homestead.  
*Aster simplex* Willd. Frequent. Sandy places, roadsides.  
*Aster tradescantii* L. Rare. Border of Amana Woods.  
*Bidens cernua* L. Stick Tight. Common. Bottomlands and moist places.  
*Bidens comosa* (Gray) Wieg. Beggar Ticks. Rare. Along Iowa River north of Homestead.  
*Bidens coronata* (L.) Britt. Tickseed-Sunflower. Rare. Along Iowa River north of South Amana.  
*Bidens frondosa* L. Common. Alluvial soil.  
*Bidens vulgata* Greene. Rare. Sandy shore of Iowa River north of South Amana.  
*Boltonia latisquama* Gray. Rare. Along Iowa River north of South Amana.  
*Cichorium intybus* L. Chicory, Blue Sailors. Reported from B. Shimek's field notes. Introduced.  
*Cirsium altissimum* (L.) Spreng. Tall Thistle. Rare. Along Route 149 north of Homestead.  
*Cirsium discolor* (Muhl.) Spreng. Infrequent. Along railroads, in fields.  
*Cirsium hillii* (Canby) Fern. Reported from B. Shimek's field notes.  
*Cirsium iowense* (Pammel) Fern. Reported by Shimek, (1911).  
*Cirsium vulgare* (Savi.) Tenore. Bull Thistle. Common. Clearings and pastures. Introduced.  
*Coreopsis palmata* Nutt. Tickseed. Infrequent. Prairie west of Homestead.  
*Dyssodia papposa* (Vent.) Hitchc. Fetid Marigold. Reported from B. Shimek's field notes.  
*Eclipta alba* (L.) Hassk. Yerba-de-Tago. Rare. Near lotus pond west of Amana.  
*Echinacea pallida* Nutt. Frequent. Prairie west of Homestead.  
*Echinacea purpurea* (L.) Moench. Purple Cone Flower. Reported from B. Shimek's field notes.  
*Erechtites hieracifolia* (L.) Raf. Fireweed. Rare. Roadside north of Williamsburg.  
*Erigeron annuus* (L.) Pers. White Top. Infrequent. Open woods, roadsides.

- Erigeron canadensis* L. Horseweed. Common. Fields and waste places.
- Erigeron philadelphicus* L. Philadelphia Fleabane. Common. Moist places, bottomlands.
- Erigeron strigosus* Muhl. Common. Along railroads, roads, fields.
- Eupatorium altissimum* L. Tall Thoroughwort. Rare. Along railroad at Homestead.
- Eupatorium maculatum* L. Joe-Pye-Weed. Rare. Bog on slope above Dutch Lake.
- Eupatorium perfoliatum* L. Boneset. Common. Fields, moist ground.
- Eupatorium rugosum* Houtt. White Snakeroot. Frequent. Rich woods.
- Helenium autumnale* L. Sneezeweed. Rare. Moist ravine north of Williamsburg.
- Helianthus annuus* L. Common Sunflower. Frequent. Along roads and railroads.
- Helianthus decapetalus* L. Sunflower. Rare. Woods north of Middle Amana.
- Helianthus grosseserratus* Martens. Common. Roadsides and prairie.
- Helianthus laetiflorus* Pers. Prairie Sunflower. Rare. Prairie west of Homestead.
- Helianthus strumosus* L. Infrequent. Along roads and railroads.
- Helianthus tuberosus* L. Jerusalem Artichoke. Rare. Along railroad west of Homestead.
- Heliopsis helianthoides* (L.) Sweet var. *scabra* (Dunal) Fern. Ox Eye. Frequent. Along railroads, woods.
- Hieracium canadense* Michx. Hawkweed. Rare. Wooded slope above Dutch Lake.
- Iva xanthifolia* Nutt. Reported by Shimek, (1911).
- Krigia biflora* (Walt.) Blake. Dwarf Dandelion. Rare. Dry bank above Dutch Lake.
- Kuhnia eupatorioides* L. False Boneset. Common. Along roads, railroads, waste places.
- Lactuca canadensis* L. Wild Lettuce. Common. Borders of woods, fields.
- Lactuca floridana* (L.) Guertn. Rare. Along Route 149 north of Homestead.
- Lactuca pulchella* (Pursh) DC. Blue Lettuce. Reported by Pammel and King, (1926).
- Lactuca scariola* L. Prickly Lettuce. Rare. Along Route 149 north of Homestead. Introduced.
- Liatris aspera* Michx. Blazing Star. Frequent. Sandy soil, prairie.
- Liatris pycnostachya* Michx. Reported from B. Shimek's field notes.
- Matricaria matricarioides* (Less.) Porter. Pineapple Weed. Rare. Along road north of Homestead. Introduced.
- Prenanthes alba* L. Rattlesnake Root. Infrequent. Border of Amana Woods.
- Ratibida pinnata* (Vent.) Barnh. Prairie Coneflower. Common. Prairies and fields.
- Rudbeckia hirta* L. Brown-eyed Susan. Common. Fields and open woods.
- Rudbeckia laciniata* L. Rare. Along railroad near Homestead.
- Rudbeckia triloba* L. Coneflower. Rare. Moist ravine north of Williamsburg.
- Senecio plattensis* Nutt. Frequent. Roadsides, dry places.
- Silphium integrifolium* Michx. Rosinweed. Common. Roadsides, fields, prairie.
- Silphium laciniatum* L. Compass Plant. Frequent. Roadsides, fields.
- Solidago altissima* L. Tall Goldenrod. Frequent. Roadsides, sandy places, prairie.
- Solidago flexicaulis* L. Broad-leaved Goldenrod. Rare. Woods south of Amana.
- Solidago gigantea* Ait. Late Goldenrod. Frequent. Roadsides, prairie.
- Solidago graminifolia* (L.) Salisb. Rare. Along railroad at Homestead.
- Solidago missouriensis* Nutt. Frequent. Along railroads, prairie.
- Solidago nemoralis* Ait. Field Goldenrod. Infrequent. Sandy area above Dutch Lake.
- Solidago rigida* L. Rare. Woodland road south of Amana, prairie.
- Solidago speciosa* Nutt. Showy Goldenrod. Rare. Prairie west of Homestead.
- Solidago ulmifolia* Muhl. Common. Rich woods.



- Sonchus asper* (L.) Hill. Sow Thistle. Reported by Pammel and King, (1926). Introduced.
- Sonchus oleraceus* L. Reported by Pammel and King, (1926).
- Tanacetum vulgare* L. Common Tansy. Reported from B. Shimek's field notes.
- Taraxacum erythrospermum* Andrs. Red-seeded Dandelion. Frequent. Road sides. Introduced.
- Taraxacum officinale* Weber. Common Dandelion. Common. Roadsides, fields. Introduced.
- Tragopogon major* Jacq. Goat's Beard. Frequent. Roadsides. Introduced.
- Vernonia fasciculata* Michx. Ironweed. Frequent. Roadsides, fields, sandy places.
- Xanthium italicum* Moretti. Cocklebur. Common. Along railroads, sandy places.

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