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Floristic Study of Crawford County, Illinois

Loy R. Phillippe

Eastern Illinois University

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FLORISTIC STUDY OF CRAWFORD

COUNTY, ILLINOIS
(TITLE)

BY

Loy R. Phillippe

B.S. in Ed., Eastern Illinois University, 1971

THESIS

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF

Master of Science

IN THE GRADUATE SCHOOL, EASTERN ILLINOIS UNIVERSITY
CHARLESTON, ILLINOIS

1973
YEAR

I HEREBY RECOMMEND THIS THESIS BE ACCEPTED AS FULFILLING
THIS PART OF THE GRADUATE DEGREE CITED ABOVE

15 May 73
DATE

15 May 73
DATE

FLORISTIC STUDY OF CRAWFORD
COUNTY, ILLINOIS

BY

LOY R. PHILLIPPE

B.S. in Ed., Eastern Illinois University, 1971

ABSTRACT OF A THESIS

Submitted in partial fulfillment of the requirements
for the degree of Master of Science of the Graduate School of
Eastern Illinois University

CHARLESTON, ILLINOIS
1973

ABSTRACT

A two year inventory of the flora of Crawford County resulted in a collection of 809 species and has brought the present known vegetation to 918 species encompassing 470 genera in 127 families. A total of 388 species not previously reported were either collected during this study or previously deposited within the herbarium of Eastern Illinois University. An annotated checklist of each species is given followed by a brief note concerning the habitat in which it was collected, the collector's initials, and collecting number. During the search for these specimens a number of interesting natural areas were noted. An account is given of ten of these areas concerning their location, general habitat, dominant vegetation, and any rare or unusual species. A very brief history of the county is also given.

ACKNOWLEDGMENTS

The writer is grateful to Professor John E. Ebinger for his aid and supervision of this study and his advice and critical reading of the manuscript. He also thanks his mother, Elizabeth R. Phillippe, for her aid on numerous collecting trips and Professor Wesley C. Whiteside and Dr. Roger L. Darding for their helpful suggestions and reading of the manuscript.

TABLE OF CONTENTS

	pages
Acknowledgments.	i
Introduction	1
Method of Study.	5
Natural Areas.	5
Summary.	11
Annotated Checklist of the Plants Collected and Reported for Crawford County Illinois	13
Literature Cited	43

FLORISTIC STUDY OF CRAWFORD COUNTY, ILLINOIS

Introduction

Crawford County is along the Wabash River in east-central Illinois. It is bordered on the north by Clark County, on the south by Lawrence and Richland Counties, and on the west by Jasper County. The principal water courses are the Wabash River, which forms the east boundary of the county, the Embarrass River, which runs diagonally across the southwest corner of the county, Big Creek, also in the southwest corner, Brushy Fork, Lamotte Creek, Sugar Creek, and Hutson Creek (Worthen, 1875).

The flora of Illinois was similarly affected as each glacial advance and retreat forced species to migrate hundreds of miles, and only a few isolated areas were not directly covered by the huge sheets of ice. The colder climate, drainage change, grinding and pulverizing of rock material, drift left by melting waters, and loess deposits must have had a pronounced affect upon the flora throughout this period. Crawford County was covered only by the third ice sheet, the Illinoian, which extended southward to Shawneetown Ridge and receded about 250,000 years ago (Voigt and Mohlenbrock, 1964).

Although no descriptive account is given, the Frenchman John La Motte came upon the present site of Crawford County in 1678. Through early French explorers, like La Motte,

France first laid claim to this territory in 1680. In the war between France and England, known as the "Old French and Indian War," all the land France claimed east of the Mississippi River was granted to England at the Treaty of Paris, February 16, 1763. The first actual settlers in and around the present site of Palestine were of French Nationality. The Eatons are believed to have been here as early as 1809 and are generally admitted to have been the first white settlers. The construction of Fort La Motte (1811-1812) established Palestine, at 162 years, as one of the oldest towns in Illinois. The fort was established for protection from the Indians occupying this portion of Illinois. The Delaware, the Kickapoo, and occasional small bands from other tribes gave infrequent but serious trouble to the early settlers (Perrin, 1883).

Crawford County, in 1817 with its county seat in Darwin, was the eleventh county formed in the state and is named for General William Crawford, a Revolutionary Soldier. Crawford, a noted and feared Indian hunter, was burned at the stake by the Wyandot Indians in Crawford County, Ohio, in 1782. The original boundaries ranged from the mouth of the Embarrass River west to the northeast boundary of the present Clinton County, Illinois, and then due north until it strikes the line of upper Canada, and bordered on the east by the line that separates this territory from Indiana. In 1839, Crawford County received its present boundaries with an area of 442 square miles (Worthen, 1875).

The early descriptive accounts of Crawford County give only a broad perspective of what one might have seen. A small proportion of the county was tall-grass prairie and, as described by Sam Seaney (Seaney, 1918), it also waved over the present county seat of Robinson. These small rolling prairies were mainly confined to the northern and western portions of the county, and to the bottom and terrace lands adjacent to the Wabash River. From Hutsonville south is a belt of alluvial bottom and terrace land, from one to three miles in width, extending to the mouth of Lamotte Creek, a distance of ten miles. This deep sandy loam is mostly prairie and is very productive. The upland prairies are a lighter color and less rich in humus than most central and northern prairie soils (Worthen, 1875).

The majority of the county was wooded. On the rolling timbered lands the soil is thin and not very productive while the more level portions developed a much more productive soil (Worthen, 1875). The original timber included the same species present today. Early reports include such species as locust, persimmon, sassafras, walnut, oak, hickory, cottonwood, pecan, hackberry, sycamore, and under-brush such as wild plum, grapes, sumac, hazel, paw-paw, spicebush, and dogwood (Perrin, 1883). Although no virgin timber exists today, a few isolated large trees testify to the fact that a forest of impressive size had an influencing effect on early wildlife. The animal life was more diverse than today with accounts of black bear, numerous deer, panther, turkey, wild pigs, and wolves (Perrin, 1883).

Two trees of state record size have been located. A wild cherry, Prunus serotina Ehrh., located two miles southeast of Flat Rock (SW $\frac{1}{4}$, Section 10, R11W, T5N) has a circumference of 15 feet 5 $\frac{1}{2}$ inches. A serviceberry, Amelanchier Arborea (Michx.f) Fern., located in Flat Rock (SE $\frac{1}{4}$, Section 5, R11W, T5N) has a circumference of 3 feet 11 inches. Other near record size species are Betula nigra L., Cornus florida L., Fagus grandifolia Ehrh., Liquidambar styraciflua L., Cercis canadensis L., and Fraxinus lanceolata Borkh.

Although the present flora of Crawford County is very similar to early accounts, the abundance of prairie and timber land has greatly decreased. Prairie and timber lands have been cleared whenever possible for agriculture, with corn and soybean as the predominant cash crops. The wooded area not cultivated, due to steep slope or periodic flooding, are frequently harvested for their timber. Industry also plays a very important role and is represented by such companies as Case Pottery, Central Illinois Public Service, Eitterbrick Shoes, Heath Candy, Marathon Oil, Tempco, Union Carbide, and Victor Dana.

The average annual temperature for Palestine is 55.5°F with Spring temperatures normally around 54.3°F, Summer 76.5°F, Fall 57°F, and Winter 34.1°F. The average annual precipitation is 40.97 inches with Spring months normally receiving 3.94 inches, Summer months 3.60 inches, Fall months 3.27 inches, and Winter months 2.83 inches (U.S. Department of Commerce Weather Bureau Climatological Data, Illinois. 1973.)

Method of Study

The county was surveyed by driving and walking throughout much of the area. Because the study of no single type of environment was stressed, an effort was made to collect in all types of environments, such as ponds, streams, ditches, river banks, marshes, floodplain forest, terraces, upland woods, cultivated fields, and fields in various stages of succession. Whenever an area appeared especially unusual in its flora, an extra effort was made to collect sufficient specimens to have a good representation of that area.

Natural Areas

Although no state parks or nature preserves exist in Crawford County, a number of interesting natural areas are found. The least disturbed and most interesting natural areas are listed below and are described from a botanical point of view. With each is included its location, general habitat, dominant vegetation, and any rare or unusual plant species that have been found in the area.

1. Hutson Creek--located 1.2 miles southwest of Hutsonville (SW $\frac{1}{4}$, Section 31, R11W, T8N). The creek has cut through approximately 200 yards of this area, and exposed a sandstone ledge which has provided a particularly attractive and good habitat for a few uncommon species. Fagus grandiflora Ehrh. dominates the sandstone ledge, while the remaining areas along Hutson Creek progress from a lowland dominated by Fraxinus lanceolata Borkh. and Quercus bicolor Willd. to woodlands dominated by species of Quercus and Carya at higher elevations.

A few of the more rare and uncommon species associated with this sandstone outcropping are Euonymus obovatus Nutt.,

Tephrosia virginiana (L.) Pers., Aureolaria flava (L.) Farw.,

Pedicularis canadensis L., and Filea fontana (Lunell) Rydb.

The interesting species found at this location but not associated with the outcropping are Opbioglossum vulgatum L.,

Osmunda claytonia L., Cerallorhiza odontorhiza (Willd.) Nutt.,

Habenaria peramoena A.Gray, and Lobelia cardinalis L.

2. Blackjack-Oak Forest--located 1.3 miles southwest of Hutsonville (S²⁴, Section 31, R11W, T6N). The Blackjack-Oak Forest covers an area of about 5 acres. This upland dry, scrubby Blackjack-Oak Forest and the surrounding vegetation is more representative of extreme southern Illinois. Although many of the species are not rare for Crawford County, finding the species together in a Blackjack-Oak Forest is very uncommon.

A few of the species present are Aristida dichotoma Michx.,

Aristida oligantha Michx., Aristida ramossima Engelm.,

Danthonia spicata (L.) Beauv., Spiranthes cernua (L.) Rich.,

Aristolochia serpentaria L., Liartia aspera Michx.,

Parthenium integrifolium L., Quercus marilandica Muench.,

Hypericum gentianoides (L.) BSP., Paronychia fastigata (Raf.)

Fern. Desmodium laevigatum Nutt., Lespedeza procumbens Michx.,

and Polygala ambigua Nutt.

3. Tall-Grass Prairie--located along the New York Central Railroad and extending in an area between 1 and 3 miles northeast of Robinson (Sections 26, 23, and 13, R12W, T7N). This railroad with its surrounding vegetation is perhaps the best example of a true prairie in Crawford County. This area, although not

abundant in rare specimens, shows best what most of northern Crawford County would probably be like had man not altered its natural state. This area, although frequently mowed by the railroad, during late summer and fall has a very thick tall-grass prairie containing such species as Andropogon furcatus Muhl., Andropogon scoparius Michx., Sorghastrum nutans (L.) Nash., Silphium laciniatum L., Solidago rigida L., Desmodium canadense (L.) DC., and Eryngium yuccifolium Michx.

4. Sand-Prairie--located along the New York Central Railroad 2 miles north of Hutsonville (SE $\frac{1}{4}$, Section 7, R11W, T8N). The species present are similar to those found in the tall-grass prairie previously described. Three noticeable exceptions are Buchloe dactyloides (Nutt.) Engelm., Cenchrus pauciflorus Benth., and Sporobolus cryptandrus (Torr.) A.Gray. Cenchrus pauciflorus Benth. and Sporobolus cryptandrus (Torr.) A.Gray are typical grasses one expects to find in an Illinois sand-prairie, although the latter has not been reported for east-central Illinois. Buchloe dactyloides (Nutt.) Engelm., an extremely rare prairie relic, and in Illinois previously reported only from Peoria County, is a sand-prairie species typically found farther west in the short-grass prairie (Jones, 1963) (Kucera, 1967).

5. Railroad West of Robinson--located along the Illinois Central Railroad 3 miles west of Robinson (S $\frac{1}{2}$, Section 35, R13W, T7N). Extending more than 1 mile along and on either side of the railroad is perhaps the most varied ecological area with

the greatest conglomeration of species. The eastern boundry is a dry flat prairie, and as one proceeds west the environment quickly changes as poor drainage allows water to stand for long periods. Further west the poor drainage and forested conditions prevail but the topography becomes immediately rugged.

The rare and uncommon species which inhabit this area are Osmunda regalis L., Cyperus pseudovegatus Steud., Helica nitens (Scribn.) Nutt., Lilium michiganense Farw., Veratrum woodii Robbins., Silene nivea (Nutt.) Otth, Sedum telephioides Michx., Gentiana andrewsii Griseb., Agastache scrophulariaefolia (Willd.) Ktze., Isanthus brachiatus (L.) BSP., Lobelia siphilitica L. f. albiflora Britt., Polygonum sagittatum L., Anemonella thalictroides (L.) Spach., Saururus cernuus L., and Valerianella radiata (L.) DuRoi.

6. Hillside Marsh--located 1.2 miles north of Hutsonville (NW $\frac{1}{4}$, SW $\frac{1}{4}$, Section 17, R11W, T8N). The marsh is continually wet through underground seepage and extends for approximately 300 yards beneath highwire lines into a floodplain forest. This very interesting area is dominated in the early Spring by Symplocarpus foetidus (L.) Nutt. During the Summer and Fall months the locality undergoes a change such that a very dense growth of waist high Peltandra virginica (L.) Kunth. and Sagittaria latifolia L. are clearly the dominant plant forms.

The marsh habitat contains luxuriant growth and numerous species. A few species inhabiting the marsh are rare and uncommon to this portion of Illinois. These species are Leersia lenticularis Michx., Carex muskingumensis Schw.,

Feltandra virginica (L.) Kunth., Symplocarpus foetidus (L.) Nutt., Epilobium coloratum Muhl., Clonatis pitcheri Torr. & Gray, Ranunculus sceleratus L., Chelone obliqua L., and Ampelopsis cordata Michx.

7. Ashland Lake--located 2.2 miles southeast of Flat Rock (NE $\frac{1}{4}$ of Section 15, R11W, T5N). Probably the largest lake in Crawford County, Ashland Lake contains many aquatic species and is surrounded by fields of perennial grasses and shrubs of old field succession as well as secondary growth thickets of Oak and Hickory. This area is typical for most ponds and lakes in Crawford County and gives a good representation of what one would expect to see.

Associated with the pond are such species as Najas guadalupensis (Spreng.) Magnus, Potamogeton diversifolius Raf., Potamogeton pectinatus L., Typha angustifolia L., Typha angustifolia x latifolia L., Typha latifolia L., and Jussiaea repens L. Typha angustifolia x latifolia L., although not listed by Jones (1963), appears with the parent species bordering ponds and lakes in Crawford County.

8. Lake Walten--located 2.6 miles north of Hutsonville (NE $\frac{1}{4}$ of Section 7, R11W, T8N). This privately owned lake extends on each side of the New York Central Railroad. The section of Lake Walten west of the railroad contains the greatest diversity of plant forms, and upon occasions becomes dangerously low, taking on the appearance of a swamp. The most common species, including Salix discolor L., and

Equisetum hyemale L., are similar to those surrounding and bordering most ponds. The uncommon and interesting species are Carex comosa Boott, Belamcanda chinensis (L.) DC., Corallorhiza odontorhiza (Willd.) Nutt., Epilobium coloratum Muhl., Ranunculus sceleratus L., and Zanthoxylum americanum Mill.

9. Beech-Maple Forest--located 0.8 miles southeast of Palestine (SW $\frac{1}{4}$, Section 1, R11W, T6N). This near climax beech-maple forest is probably the most mature in the county. The approximately 30 acre forest is located on very hilly terrain. The east-west boundaries are pasture, the southern boundary is under cultivation, while its northern boundary is naturally halted by a rapid drop into Lamotte Creek, which separates this forest from the floodplains of the Wabash River.

The numerous and apparently dominant Fagus grandiflora Ehrh. and Acer saccharum Marsh. measure approximately 3 meter and 1 $\frac{1}{3}$ meter in circumference respectively. The less common, yet larger, Fraxinus lanceolata Borkh. at approximately 3-5 meter and Ulmus rubra Muhl. at approximately 2 meter in circumference are noticeably losing out to the more aggressive Fagus grandiflora Ehrh. and Acer saccharum Marsh.

A few species which are rare and or uncommon to this portion of Illinois do well here. These include Trillium sessile L., Dicentra canadensis (Goldie) Walp., Collinsonia canadensis L., Epifagus virginiana (L.) Bart., Jeffersonia diphylla (L.) Pers., Collinsia verna Nutt., and Valleriana pauciflora Michx.

10. Floodplain Forest--located throughout most of the eastern boundary of Crawford County. The floodplain forest

are of various sizes and are in various stages of development. The species in the floodplain forest are very predictable as only those species which are able to tolerate much shade and excess water are able to flourish.

Four fairly mature floodplain forests were surveyed by Phillippe and Ebinger (1973). Their locations are ... (1.) 3 miles north of Hutsonville (SE $\frac{1}{4}$, NW $\frac{1}{4}$, Section 8, R11W, T8N). (2.) 1 mile southeast of Palestine (NW $\frac{1}{4}$, SE $\frac{1}{4}$, Section 1, R11W T6N). (3.) 2.5 miles northeast of Heathsville (NE $\frac{1}{4}$, S $\frac{1}{4}$, Section 33, R10W, T6N). (4.) 2.5 miles southeast of Heathsville (NE $\frac{1}{4}$, NW $\frac{1}{4}$, Section 20, R10W, T5N). They found the most important woody species to be Acer saccharinum L. and Fraxinus lanceolata Borkh., followed by Populus deltoides Marsh., Quercus bicolor Willd., Carya illinoensis (Wang.) K.Koch, and Betula nigra L. The important herbaceous species were Tradescantia subaspera Ker., Leersia virginica Willd., Sicyos angulatus L., Boehmeria cylindrica (L.) Sw., and Laportea canadensis (L.) Gaud.

Summary

Crawford County, located in the south-central portion of eastern Illinois and along the Wabash River, is an agriculturally and industrially oriented county. A total of 918 vascular plants have been collected in Crawford County. Of the species collected Dicots total 676 (73.6%), Monocots 219 (23.9%), Gymnosperms 3 (0.3%), and Ferns and Fern Allies 20 (2.2%). The families which dominate the county are the Compositae, with

120 (13.1%) of the total number of species collected, and the Gramineae, with 97 (10.67%). Ten interesting natural areas are described as to their exact locations, predominant species, and any unusual or rare species. The areas described consist of one marsh, one creek, two lakes, two prairies, three forest, and one prairie-forest combination.

ANNOTATED CHECKLIST OF THE PLANTS COLLECTED AND REPORTED
FOR CRAWFORD COUNTY ILLINOIS

The checklist which follows contains 918 vascular plants that have been collected from Crawford County. Each species is followed by a brief note concerning the habitat in which it was collected, the collector's initial, and field number. The following abbreviations are used for collector's names: P, L. R. Phillippe; T, N. Tracy; Eb, J. E. Ebinger; PP, P. E. Phillippe; and Ev, R. A. Evers. All species which have a collector's initial and number are deposited in the herbarium of Eastern Illinois University. When such information is unknown the literature is cited as to where the information was obtained.

The nomenclature is that of Jones (1963). One species Pennisetum alopecuroides (L.) Spreng. and two forms, Trillium sessile L. f. viridiflorum Beyer and Lobelia siphilitica L. f. albiflora Britt., were not listed by Jones. The species is described by Hitchcock (1935) while the two forms are described by Fernald (1950). The 388 species denoted by an asterisk were not previously reported as occurring in Crawford County.

FERN AND FERN-ALLIES

EQUISETACEAE

Equisetum arvense L. Roadside, edge of woods. P939.
Equisetum hyemale L. Railroad, moist ground. P1451.

LYCOPODIACEAE

Lycopodium flabelliforme (Fern.) Blanch. Old field near stream.
P68.

OPHIOGLOSSACEAE

- *Botrychium dissectum Spreng. Lowland woods. P1206.
- *Botrychium obliquum Muhl. Woods. P984.
- Botrychium virginianum (L.) Sw. Open woods. P1554.
- *Ophioglossum vulgatum L. Moist low area under elm trees. P1286.

OSMUNDACEAE

- *Osmunda claytoniana L. Edge of woods, lowland area. P1901.
- Osmunda regalis L. Wet area along railroad. P244.

POLYPODIACEAE

- Adiantum pedatum L. Woods. P913.
- *Asplenium platyneuron (L.) Oakes Wooded hillside. P945.
- *Athyrium angustum (Willd.) Presl Rocky ledge of creek. P1754.
- Athyrium pycnocarpon (Spreng.) Tidestr. Along creek in valley. P946.
- Camptosorus rhizophyllus (L.) Link. This species which inhabits rocky woods was cited by Mohlenbrock (1967).
- Cystopteris fragilis (L.) Bernh. Wooded hillside. P947.
- *Dryopteris hexagonoptera (Michx.) C.Chr. Woods. P1977.
- Cnoclea sensibilis L. Moist ground, open area. P951.
- Polystichum acrostichoides (Michx.) Schott. Edge of creek in woods. P943.
- Pteridium latiusculum (Desv.) Hieron. Open area along railroad. P750.
- *Woodsia obtusa (Spreng.) Torr. Wooded hillside. P944.

GYMNOSPERMS

CUPRESSACEAE

- Juniperus virginiana L. Roadside. P1144.

PINACEAE

- *Pinus banksiana Lamb. Edge of lake. P782.
- *Pinus sylvestris L. Open field. P1652.

MONOCOTS

ALISMACEAE

- Alisma subcordatum Raf. Edge of water. P784.
- Echinodorus cordifolius (L.) Griseb. This species which inhabits swamps was cited by Winterringer and Evers (1960).

- Sagittaria brevirostra Mack. & Bush Moist ground. P482.
*Sagittaria latifolia Willd. Hillside marsh. P1993.

AMARYLLIDACEAE

- *Hypoxis hirsuta (L.) Coville. Moist roadside. P1312.
Narcissus pseudo-narcissus L. Roadside. P1214.

ARACEAE

- Acorus calamus L. Moist area near road. P875.
Arisaema dracontium (L.) Schott Woods, near stream. P235.
Arisaema triphyllum (L.) Schott Woods. P1251.
*Peltandra virginica (L.) Kunth Hillside marsh. P1423.
*Symplocarpus foetidus (L.) Nutt. Hillside marsh. P1218.

COMMELINACEAE

- *Commelina communis L. Edge of woods along railroad. P592.
*Commelina diffusa Burm.f. Small terrace along edge of bottomland woods, Wabash River. P1127.
*Tradescantia ohimensis Raf. Roadside near railroad. P10.
Tradescantia subaspera Ker Hillside marsh. P1998.
Tradescantia virginica L. This species which inhabits open areas is cited by Winterringer and Evers (1960).

CYPERACEAE

- Carex albursina Sheldon Upland woods. P1302.
*Carex annectens Bickn. Abandoned oil field, open area. P1646.
Carex blanda Dewey Burned over area, edge of field. P1269.
Carex brachyglossa Mack. This species which inhabits fields and pastures was cited by Winterringer and Evers (1960).
Carex brevior (Dewey) Mack. This species which inhabits roadsides and open woods was cited by Winterringer and Evers (1960).
Carex bushii Mack. This species which inhabits open woods and pastures was cited by Winterringer and Evers (1960).
*Carex cephalophora Muhl. Roadside. P1345.
*Carex comosa Boott Edge of lake. P1450.
*Carex conjuncta Boott Hillside marsh. P1436.
Carex cristatella Britt. Hillside marsh. P1435.
*Carex cruscovii Shuttlw. Moist field. P1455.
Carex davisii Schw. & Torr. Dry area near railroad. P1568.
Carex frankii Kunth Edge of dirt road. P799.
Carex grayii Carey This species which inhabits lowland woods and cited by Winterringer and Evers (1960).
Carex grisea Wahl. This species which inhabits pastures was cited by Winterringer and Evers (1960).
Carex hirsutella Mack. Rocky ledge of creek. P1759B.
*Carex hyalinolepis Steud. Roadside, moist ground. P1273B.
Carex leavenworthii Dewey This species which inhabits open woods and pastures was cited by Winterringer and Evers (1960).

- Carex lupulina Muhl. Moist area along railroad. P11.
Carex lurida Wabl. Hillside marsh. P1438.
Carex meadii Dewey This species which inhabits pastures was cited by Winterringer and Evers (1960).
Carex muskingumensis Schw. Moist area along edge of woods. P960.
Carex pensylvanica Lam. Wet area, roadside. P1292.
Carex rosea Schk. Moist hillside in woods. P1954.
Carex shortiana Dewey This species which inhabits moist woods and roadside ditches was cited by Jones and Fuller (1955).
Carex sparganioides Muhl. Woods. P1964.
Carex squarrosa L. Moist area along edge of woods. P961.
Carex vulpinoidea Michx. This species which inhabits swampy ground was cited by Jones and Fuller (1955).
Cyperus acuminatus Torr. & Hook. This species which inhabits moist ground was cited by Jones and Fuller (1955).
Cyperus aristatus Rottb. Sandy creek bottom. P2093.
Cyperus esculentus L. Upland field. T563.
Cyperus ferruginescens Boeck. This species which inhabits wet ground was cited by Jones and Fuller (1955) under the name Cyperus odoratus.
Cyperus flavescens L. Edge of pond. P1015.
Cyperus ovularis (Michx.) Torr. Roadside. P1124.
Cyperus pseudovegetus Steud. Moist soil along railroad. P12.
Cyperus rivularis Kunth Moist ground along edge of lake. P1922.
Cyperus strigosus L. Moist area along edge of woods. P962.
Eleocharis engelmanni Steud. This species which grows along muddy shores and ditches was cited by Jones and Fuller (1955).
Eleocharis obtusa (Willd.) Schult. Edge of woods. P786.
Fimbristylis autumnalis (L.) R. & S. Moist area along railroad. P1001.
Scirpus atrovirens Willd. Moist ground. P1959.
Scirpus cyperinus (L.) Kunth Moist area along roadside. P150.
Scirpus fluviatilis (Torr.) A. Gray Hillside marsh. P996.
Scirpus lineatus Michx. This species which inhabits wet ground was cited by Jones and Fuller (1955).
Scirpus validus Vahl Moist area along railroad. P737.

DIOSCOREACEAE

- Dioscorea villosa L. Prairie area. P604.

GRAMINEAE

- Aegilops cylindrica Host. Edge of road and railroad in open area. P1766.
Agropyron repens (L.) Beauv. Roadside. P896.
Agropyron smithii Rydb. Open area along railroad. P1767.
Agrostis alba L. Prairie situation. P1656.
Agrostis hyemalis (Walt.) BSP. This species which inhabits fields was cited by Winterringer and Evers (1960).

- *Agrostis perennans (Walt.) Tuckerm. Woods, along fence. P1980.
- *Agrostis scabra Willd. Edge of cornfield. P2076.
- *Alopecurus carolinianus Walt. Edge of field. T163.
- *Andropogon elliotii Chapm. Old field, prairie. P1215.
- Andropogon furcatus Muhl. Prairie area along railroad. P1188.
- Andropogon scoparius Michx. Prairie. P1009.
- *Andropogon virginicus L. Old field, prairie. P1924.
- Aristida dichotoma Michx. Dry soil, open field. P2068.
- Aristida longesica Peir. Open area, edge of pond. P2153.
- Aristida oligantha Michx. Open area along oil road. F1003.
- *Aristida ramosissima Engelm. Open area in dry soil. P2066.
- *Avena sativa L. Roadside. P418.
- *Brachyelytrum erectum (Schrebb) Beauv. Woods along a small stream. P999.
- Bromus commutatus Schrad. This species which inhabits open fields was cited by Jones and Fuller (1955).
- *Bromus purgans L. Edge of woods. P1167.
- Bromus tectum L. Roadside. P1275.
- *Buchloe dactyloides (Mutt.) Engelm. Prairie area along railroad. P1900.
- *Calamagrostis canadensis (Michx.) Beauv. Open area in abandoned oil field. P1644.
- *Cenchrus pauciflorus Benth. Sandy soil in exposed area along railroad. P886.
- *Chloris verticillata Mutt. Sandy soil in field. P2182.
- Cinna arundinacea L. Growing in woods near a stream. P941.
- Dactylis glomerata L. Roadside. P1643.
- *Danthonia spicata (L.) Beauv. Dry soil in open woods of blackjack oak. P1911.
- *Diarrhena americana Beauv. Edge of creek in woods. P1187.
- *Digitaria filiformis (L.) Koel. Old field near roadside. P2038.
- Digitaria ischaemum (Schreb.) Muhl. Roadside. P2112.
- Digitaria sanguinalis (L.) Scop. Open area along railroad. F719.
- Echinochloa crusgalli (L.) Beauv. Open area along roadside. F765.
- Eleusine indica (L.) Gaertn. Edge of sidewalk. P1670.
- Elymus canadensis L. Open area along roadside. P895.
- Elymus villosus Muhl. Open area along roadside. F777.
- Elymus virginicus L. Dry ground along railroad. P994.
- Eragrostis ciliaris (All.) Lut. Growing in dirt road. P1043.
- Eragrostis frankii C. A. Mey This species which inhabits roadsides was cited by Jones and Fuller (1955).
- *Eragrostis hypnoides (Lam.) BSP. Edge of ox-bow lake near the Embarrass River. P2189.
- Eragrostis pectinacea (Michx.) Nees Growing along dirt road. P2105.
- Eragrostis spectabilis (Pursh) Steud. Grassy area along roadside. P2130.
- Festuca elatior L. Edge of road. P1146.
- Festuca obtusa Bieler Hillside marsh. P1146.
- Glyceria striata (Lam.) Hitchc. Hillside marsh. P1445.

- Holcus lanatus L. This species which inhabits roadsides and fields was cited by Jones and Fuller (1955).
- *Hordeum jubatum L. Roadside. P428.
- Hordeum pusillum Nutt. This species which inhabits roadsides and fields was cited by Winterringer and Evers (1960).
- *Hystrix patula Moench. Roadside. P1762.
- *Leersia lenticularis Michx. Bottomland forest of Wabash River. P987.
- *Leersia oryzoides (L.) Sw. Edge of pond. P1153.
- Leersia virginica Willd. Wooded terrace of Wabash River. P1133.
- Leptoloma cognatum (Schultes) Chase This species which inhabits sandy soil was cited by Jones and Fuller (1955).
- *Lolium perenne L. Edge of dirt road. P801.
- *Melica nitens (Scribn.) Nutt. Prairie conditions along railroad. P1649.
- *Muhlenbergia frondosa (Poir.) Fern. Grassy area along roadside. P2125.
- *Muhlenbergia mexicana (L.) Trin. Railroad. P2141.
- *Muhlenbergia schreberi J.F.Gmel. Edge of fence in pasture. P1083.
- *Muhlenbergia sobolifera (Muhl.) Trin. Wooded hillside near creek. P1160.
- Panicum agrostoides Spreng. Roadside. P2116.
- *Panicum boscii Poir. Woods. P1914.
- Panicum capillare L. Grassy area along roadside. P2126.
- Panicum clandestinum L. This species which inhabits sandy soil was cited by Jones and Fuller (1955).
- *Panicum dichotomiflorum Michx. Roadside. P2111.
- Panicum huachucae Ashe Growing along dirt road. P1787.
- Panicum latifolium L. Growing near edge of pond. P807.
- Panicum lindheimeri Nash Lowland field. T548.
- Panicum microcarpon Muhl. Woods. P1915.
- Panicum virgatum L. Grassy area along roadside. P2133.
- *Paspalum ciliatifolium Michx. Roadside. P1910.
- Paspalum circulare Nash Roadside. P1064.
- Paspalum fluitans (Ell.) Kunth This species which inhabits moist ground was cited by Jones and Fuller (1955).
- *Paspalum geminum Nash Railroad. P1905.
- Pennisetum alopecuroides (L.) Spreng. Well grazed pasture. P2188.
- *Phalaris arundinacea L. Roadside. P1065.
- Phleum pratense L. Open field. P1143.
- *Phragmites communis Trin. Railroad. P2006.
- Poa annua L. This species which inhabits waste places was cited by Jones and Fuller (1955).
- Poa compressa L. Open area near lake. P778.
- Poa pratensis L. This species which inhabits roadsides and fields was cited by Winterringer and Evers (1960).
- Poa sylvestris A.Gray This species which inhabits woods was cited by Jones and Fuller (1955).
- Setaria faberii Herm. Along dirt road. P798.
- *Setaria italica (L.) Beauv. Cultivated field. P1903.
- Setaria lutescens (Weigel) F.T.Hubb. Edge of dirt road. P797.

- Setaria viridis (L.) Beauv. Roadside. P1904.
Sorghastrum nutans (L.) Nash. Prairie. P1053.
*Sorghum halepense (L.) Pers. Railroad. P722.
*Sorghum vulgare Pers. Railroad. P721.
Spartina pectinata Link. Edge of drainage ditch. P743.
*Sphenopholis intermedia Rydb. Hillside marsh. P1414.
Sporobolus asper (Michx.) Kunth Sandy soil. P2184.
*Sporobolus cryptandrus (Torr.) A.Gray Railroad. P1907.
*Sporobolus vaginiflorus (Torr.) Wood Sandy soil. P2185.
Tridens flavus (L.) Hitchc. Roadside. P1908.
Tripsacum dactyloides L. Moist area along stream. P64.
*Triticum aestivum L. Roadside. P1353.
Uniola latifolia Michx. Edge of creek in slightly shaded area.
P7.

HYDROCHARITACEAE

- *Elodea canadensis Michx. Growing in canal. P1111.

IRIDACEAE

- Belamcanda chinensis (L.) DC. Edge of woods. P1060.
*Iris shrevei Small Hillside marsh. P1429.
*Sisyrinchium albidum Raf. Railroad. P1317.
Sisyrinchium bermudiana L. Old field succession. P215.

JUNCACEAE

- Juncus acuminatus Michx. Open field. P1926B.
Juncus biflorus Ell. Edge of pond. P809.
Juncus brachycephalus (Engelm.) Buch. Edge of pond. P808.
*Juncus effusus L. Open area in abandoned field. P1647.
Juncus interior Wieg. Near lake in open. P779.
*Juncus marginatus Rostk. Moist low ground. P1941.
Juncus tenuis Willd. Edge of pond. P754.
*Juncus torreyi Coville Railroad. P625.
Luzula echinata (Small) Hermann This species which inhabits open woods was cited by Winterringer and Evers (1960).

LEMNACEAE

- *Lemna minor L. In water of drainage ditch. P1196.
*Spirodela polyrrhiza (L.) Schleid. In water of drainage ditch.
P1195.
*Wolffia columbiana Karst. In water in drainage ditch. P1187.

LILIACEAE

- Allium canadense L. Railroad. P267.
Allium tricoccum Ait. In beech forest. P1198.
Allium vineale L. Railroad. P1660.
*Asparagus officinalis L. Roadside. P1300.

- Erythronium albidum Nutt. Wooded hillside. P1252.
*Erythronium americanum Ker Hillside in open woods. P1259.
*Hemerocallis fulva L. Roadside. P764.
*Lilium michiganense Farw. Railroad in tall grass. P477.
*Lilium tigrinum Ker Roadside near creek. P732.
*Ornithogalum umbellatum L. Field. P211.
Polygonatum commutatum (Schultes) Dietr. Railroad. P1081.
Smilacina racemosa (L.) Desf. Woods. P1006.
Smilacina stellata (L.) Desf. This species which inhabits woods was cited by Jones and Fuller (1955).
*Smilax ecirrhata (Engelm.) Wats. Woods. P1962.
Smilax hispida Muhl. Woods near stream. P934.
Smilax lasioneura Hook. Railroad. P268.
Trillium gleasoni Fern. In valley of mature beech forest. P1270.
Trillium recurvatum Beck Woods. P1243.
Trillium recurvatum f. shayi Palmer & Steyererm Woods. P1244.
Trillium sessile L. Woods. P1245.
*Trillium sessile L. f. viridiflorum Beyer Woods. P1242.
Uvularia grandiflora Sm. Woods. P1246.
*Veratrum woodii Robbins. Woods. P1946.
*Yucca filamentosa L. Roadside. P1557.

NAIADACEAE

- *Najas gracillima (A.Br.) Magnus Submersed in small pond. Eb12109.
*Najas quadrelupensis (Spreng.) Magnus Submersed in lake. P2008.
*Najas minor All. Submersed in pond. Eb10547.

ORCHIDACEAE

- *Aplectrum hyemale (Muhl.) Torr. Woods. P245.
*Corallorhiza odontorhiza (Willd.) Nutt. Immature woods. P2062.
*Corallorhiza wisteriana Conrad Burned over area in immature woods. P232.
*Habenaria peramoena A.Gray Wooded area near creek. P706.
*Liparis lilifolia (L.) Rich. Open immature woods. P231.
Orchis spectabilis L. Woods. P1311.
*Spiranthes cernua (L.) Rich. Old abandoned field. P1082.
*Spiranthes gracilis (Bigel.) Beck Hillside of old abandoned field. P1068.
*Triphora trianthophora (Sw.) Rydb. Woods. P1021.

POTAMOGETONACEAE

- *Potamogeton americanus C. & S. Submersed in shallow water of pond. P817.
*Potamogeton diversifolius Raf. Submersed in shallow water of pond. P755.
*Potamogeton foliosus Raf. Submersed in pond. Eb10527.
*Potamogeton pectinatus L. Submersed in lake. P2007.

SPARGANIACEAE

*Sparganium eurycarpum Engelm. Edge of pond. P1749.

TYPHACEAE

*Typha angustifolia L. Edge of pond. P758.

*Typha latifolia L. Hillside marsh. P1782.

DICOTS

ACANTHACEAE

*Dianthera americana L. Growing in creek. P484.

Ruellia humilis Nutt. Edge of dirt road. P483.

Ruellia strepens L. Hillside marsh. P1777.

ACERACEAE

Acer negundo L. Woods. P1091.

Acer nigrum Michx.f. Wooded hillside. P1562.

Acer rubrum L. Edge of cornfield. P1083.

Acer saccharinum L. Wooded hillside near creek. P1161.

Acer saccharum Marsh. This species which inhabits woods was cited by Jones and Fuller (1955).

AIZOACEAE

Mollugo verticillata L. Edge of railroad tracks. P711.

AMARANTHACEAE

Acnida altissima Riddell This species which inhabits moist ground in woods was cited by Winterringer and Evers (1960).

Acnida subnuda (Nats.) Standl. Edge of Wabash River. P1135.

Acnida tamariscina (Nutt.) Wood Near Wabash River. P1138.

*Amaranthus albus L. Along railroad. P720.

Amaranthus arenicola I.M. Johnston This species which inhabits waste places was cited by Jones and Fuller (1955).

*Amaranthus hybridus L. Roadside. P1096.

*Amaranthus retroflexus L. Bank of pond. P790.

*Amaranthus spinosus L. In alley. P739.

*Froelichia gracilis (Hook.) Moq. Railroad. P611.

*Iresine rhizomatosa Standl. Floodplain woods of Wabash River. P1411.

ANACARDIACEAE

Rhus aromatica Ait. This species which inhabits rocky banks was cited by Jones and Fuller (1955).

Rhus copallina L. Pasture, along fence. P1076.

Rhus glabra L. Railroad. P1090.
Rhus radicans L. Wooded area near creek. P1560.

ANNONACEAE

Asimina triloba (L.) Dunal. Edge of woods near Wabash River.
P1108.

APCCYNACEAE

Amsonia tabernaemontana Walt. Moist area along railroad. P1357.
Apocynum cannabinum L. Open woods. P406.
*Vinca minor L. Edge of road near cemetery. P1189.

ARALIACEAE

*Panax quinquefolius L. Wooded area. P1159.

ARISTOLOCHIACEAE

Aristolochia serpentaria L. Open woods. P1552.
Asarum reflexum Bickn. Wooded hillside. P280.

ASCLEPIADACEAE

Ampelamus albidus (Nutt.) Britt. Along railroad. P687.
*Asclepias nirtella (Pennell) Woodson Open field. P614.
Asclepias incarnata L. Moist ground along railroad. P1761.
*Asclepias purpurascens L. Bottomland woods. P1149.
*Asclepias syriaca L. Railroad. P780.
Asclepias tuberosa L. Dry area along highway. P1.
Asclepias verticillata L. Open area along railroad. P610.

BALSAMINACEAE

Impatiens biflora Walt. Shaded area along roadside. P9.
Impatiens pallida Nutt. Low ground, near stream in woods. P1185.

BERBERIDACEAE

*Berberis thunbergii DC. Edge of woods near road. P1123.

BETULACEAE

Betula nigra L. Woods in moist ground near railroad. P1093.
Carpinus caroliniana Walt. Along oil road. P1034.
Corylus americana Walt. Moist area along railroad. P1029.

BIGNONIACEAE

Campsis radicans (L.) Seem. Roadside. P279.
*Catalpa bignonioides Walt. Roadside. P1182.

BORAGINACEAE

Cynoglossum virginianum L. This species which inhabits woods was cited by Winterringer and Evers (1960).

Hackelia virginiana (L.) I. N. Johnst. Hillside marsh. P1784.

*Heliotropium indicum L. Edge of field in low moist ground. P1163.

Lithospermum arvense L. Open sandy soil of roadside. P1230.

Mertensia virginica (L.) Pers. Moist low ground of roadside. P1240.

Myosotis virginica (L.) BSP. Cultivated field. P1315.

CACTACEAE

Opuntia refinesquii Engelm. This species which inhabits sandy soil was cited by Winterringer and Evers (1960).

CALLITRICHACEAE

*Callitriche terrestris Raf. Cultivated field. P1322.

CAMPANULACEAE

Campanula americana L. Edge of creek in woods. P1073.

Specularia perfoliata (L.) A.DC. Roadside. P272.

CANNABINACEAE

Humulus americanus Nutt. Railroad. P958.

CAPPARIDACEAE

Polanisia dodocandra (L.) DC. Railroad. P513.

CAPRIFOLIACEAE

*Lonicera japonica Thunb. Roadside, growing on fence. P239.

*Lonicera prolifera (Kirchn.) Rehd. Edge of woods. P1945.

*Lonicera xylosteum L. Wooded area. P1183.

*Sambucus canadensis L. Bottomland of Embarrass River. P284.

*Symphoricarpos orbiculatus Moench Roadside. P978.

*Triosteum aurantiacum Bickn. Wooded hillside. P948.

Triosteum perfoliatum L. Woods. P1975.

Viburnum prunifolium L. Edge of woods. P1156.

*Viburnum recognitum Fern. Edge of woods. P991.

CARYOPHYLLACEAE

Agrosterma githago L. Roadside. P250.

Arenaria serpyllifolia L. Roadside. P1449.

Cerastium vulgatum L. Edge of cultivated field. P224.

Dianthus armeria L. Roadside. P255.

- Holosteum umbellatum L. This species which inhabits waste places was cited by Winterringer and Evers (1960).
Lychnis alba Mill. Railroad. P259.
*Lychnis coronaria (L.) Desr. Roadside. P689.
Saponaria officinalis L. Railroad. P422.
Silene antirrhina L. Railroad. P424.
*Silene nivea (Nutt.) Otth. Open area along railroad. P260.
Silene stellata (L.) Ait.f. Railroad. P510.
*Stellaria longifolia Muhl. Moist woods along creek. P1313.

CELASTRACEAE

- Celastrus scandens L. Growing on fence, roadside. P1355.
*Euonymus atropurpureus Jacq. Woods along edge of stream. P938.
*Euonymus obovatus Nutt. Wooded hillside. P1184.

CERATOPHYLLACEAE

- *Ceratophyllum demersum L. Growing in canal. P1110.

CHEMOPODIACEAE

- *Atriplex patula L. Roadside. P2101.
*Chenopodium ambrosioides L. Edge of cornfield. P2078.
Cycloloma atriplicifolium (Spreng.) Coult. Sandy soil along edge of gravel pit. P1167.

CISTACEAE

- *Lechea tenuifolia Michx. Open field near oil well. P2214.

COMPOSITAE

- *Achillea millefolium L. Open area along roadside. P219.
Ambrosia artemisiifolia L. Open area along railroad. P897.
Ambrosia bidentata Michx. Dry soil along roadside. P776.
Ambrosia trifida L. Hillside marsh. P1984.
*Antennaria neglecta Greene Growing in field. P1257.
*Antennaria plantaginifolia (L.) Hook. Open field near woods. P1319.
*Anthemis cotula L. Open field. P1658.
*Arctium minus (Mill) Bernh. Roadside along fence. P1894.
Artemisia annua L. Pasture. P1067.
*Artemisia gnaphalodes Nutt. Edge of stream. P1157.
Aster novae-angliae L. Railroad. P1062.
*Aster ontarionis Wieg. Hillside marsh. P2043.
*Aster patens Ait. Edge of woods. P1069.
Aster pilosus Willd. Growing along fence. P2117.
*Aster praealtus Poir. Edge of woods. P2128.
Aster puniceus L. This species which inhabits open woods was cited by Jones and Fuller (1955).

- *Aster sagittifolius Wedem. Woods. P1174.
- *Aster simplex Willd. Hillside marsh. P2061A.
- Aster vimineus Lam. Lowland field. T583.
- Bidens aristosa (Michx.) Britt. Roadside. P17.
- Bidens bipinnata L. Pasture near railroad. P894.
- Bidens cernua L. Edge of canal. P1113.
- *Bidens comosa (A.Gray) Wieg. Edge of creek. P1094.
- Bidens frondosa L. Edge of canal. P1114.
- Bidens vulgata Greene This species which inhabits fields and roadsides was cited by Winterringer and Evers (1960).
- Boltonia interior (Fern. & Grisc.) G. N. Jones This species which inhabits dry soil was cited by Jones and Fuller (1955).
- Boltonia recognita (Fern. & Grisc.) G. N. Jones Along small stream. P906.
- Cacalia atriplicifolia L. Roadside. P736.
- Cacalia muhlbergii (Sch.-Bip.) Fern. High ground. P1022.
- *Centaurea cyanus L. Railroad. P608.
- *Chrysanthemum leucanthemum L. Old field. P216.
- Chrysopsis camporum Greene. Sandy soil along railroad. P696.
- *Cichorium intybus L. Edge of highway. P979.
- Cirsium altissimum (L.) Spreng. Railroad. P955.
- *Cirsium arvense (L.) Scop. Open field. P430.
- Cirsium discolor (Muhl.) Spreng. Old field. P2047.
- *Cirsium vulgare (Savi) Tenore Bank of salt pond. P821.
- Coreopsis tripteris L. Roadside. P923.
- Echinacea pallida Nutt. This species which inhabits prairie soil was cited by Jones and Fuller (1955).
- *Echinacea purpurea (L.) Moench Hillside near railroad. P878.
- Eclipta alba (L.) Hassk. Moist ground. P1951.
- Elephantopus carolinianus Willd. Pasture. P1040.
- Erechtites hieracifolia (L.) Raf. Edge of woods. P1033.
- Erigeron annuus (L.) Pers. Roadside. P1177.
- Erigeron canadensis L. Railroad. P957.
- Erigeron philadelphicus L. Open field. P1356.
- Eupatorium altissimum L. Railroad. P1170.
- Eupatorium coelestinum L. Pasture. P970.
- *Eupatorium fistulosum Barratt Growing in ditch. P733.
- Eupatorium perfoliatum L. Open area along railroad. P963.
- Eupatorium purpureum L. Edge of woods along railroad. P593.
- Eupatorium rugosum Houtt. Dry conditions at edge of woods near railroad. P6.
- Eupatorium serotinum Michx. Edge of woods. P988.
- *Eupatorium sessilifolium L. Hillside in open woods. P1126.
- *Galinsoga ciliata (Raf.) Blake Near old home. P1052.
- Gnaphalium obtusifolium L. Old field. P972.
- *Gnaphalium purpureum L. Woods on slight hillside. P1453.
- Grindelia squarrosa (Pursh) Dunal. Near old abandoned home. P1038.
- Helenium autumnale L. Open field. P971.
- *Helenium nudiflorum Nutt. Abandoned field. P705.
- Helenium tenuifolium Nutt. This species which inhabits dry soil was cited by Winterringer and Evers (1960).

- Helianthus annuus L. Roadside. P1102.
Helianthus divaricatus L. Railroad. P2146.
Helianthus grosseserratus Martens Roadside. P1002.
Helianthus mollis Lam. Edge of cornfield. P902.
Helianthus rigidus (Cass.) Desf. This species which inhabits prairie areas was cited by Jones and Fuller (1955).
*Helianthus strumosus L. Railroad. P627.
Helianthus tomentosus Michx. Lowland area near a stream.
Heliopsis helianthoides (L.) Sweet. Railroad. P728.
*Hieracium longipilum Torr. Open area near pond. P806.
*Hieracium scabrum Michx. Hillside along edge of woods. P956.
Krigia biflora (Walt.) Blake Roadside, near woods. P1347.
*Krigia dandelion (L.) Nutt. Open area along edge of woods.
*Kuhnia eupatorioides L. Roadside. P1101.
Lactuca canadensis L. Moist field. P1457.
Lactuca floridana (L.) Gaertn. Edge of woods. P1893.
Lactuca saligna L. This species which inhabits waste places was cited by Jones and Fuller (1955).
Lactuca scariola L. Open field. P1056.
*Liatris aspera Michx. Roadside near woods. P974.
Liatris pycnostachya Michx. Along dirt road. P883.
Parthenium integrifolium L. Dry open area. P1553.
Polymnia canadensis L. Woods. P87.
*Prenanthes altissima L. Wooded area. P1049.
Prenanthes aspera Michx. This species which inhabits prairie soils was cited by Jones and Fuller (1955).
Prenanthes crepidinea Michx. This species which inhabits the banks of streams was cited by Winterringer and Evers (1960).
Pyrrhopappus carolinianus (Walt.) DC. Roadside. P1948.
*Ratibida pinnata (Vent.) Barnh. Prairie area along railroad. P1760.
Rudbeckia hirta L. Open area along roadside. P872.
Rudbeckia laciniata L. Railroad. P730.
Rudbeckia subtomentosa Furrh Lowland area near railroad. P993.
Rudbeckia triloba L. Abandoned field. P177.
Senecio aureus L. Steep hillside in woods. P1264.
Senecio glabellus Poir. Hillside marsh. P1433.
Senecio pauperculus Michx. Old field. P217.
Silphium integrifolium Michx. Railroad. P613.
Silphium laciniatum L. Open area along fence. P885.
Silphium perfoliatum L. Prairie situation. P605.
Silphium terebinthinaceum Jacq. Prairie situation along railroad. P609.
Solidago altissima L. Railroad. P1950.
Solidago caesia L. Terrace near Wabash River. P1150.
Solidago gigantea Ait. Prairie situation. P1005.
Solidago glaberrima Martens Edge of dirt road. P873.
Solidago hirtella (Greene) Bush Old field. P874.
Solidago juncea Ait. Roadside. P1752.
Solidago latifolia L. Terrace in woods near Wabash River. P1155.
Solidago media (Greene) Bush Railroad. P1048.

- Solidago nemoralis Ait. Prairie area along railroad. P1027.
Solidago rigida L. Prairie area along railroad. P1059.
*Solidago speciosa Nutt. Sandy area near railroad. P1125.
Solidago ulmifolia Muhl. Edge of woods. P1117.
*Sonchus oleraceus L. Next to building. P1205.
Taraxacum officinale Wiggers Open field. P1057.
*Tanacetum vulgare L. Along dirt road near old home. P881.
*Tragopogon dubius Scop. Roadside. P1340.
Verbesina alternifolia (L.) Britt. Railroad. P726.
Verbesina helianthoides Michx. Wooded area. P401.
Vernonia altissima Nutt. Railroad. P723.
Vernonia fasciculata Michx. This species which inhabits moist ground was cited by Jones and Fuller (1955).
Vernonia missurica Raf. Railroad. P747.
*Xanthium commune Britt. Open field. P973.

CONVOLVULACEAE

- *Convolvulus americanus (Sims) Greene Roadside. P617.
*Convolvulus arvensis L. Sandy soil along railroad. P695.
*Cuscuta glomerata Choisy Moist ground in open area, growing on
Vernonia missurica Raf. P1897.
Cuscuta gronovii Willd. Edge of canal growing on
Boehmeria cylindrica (L.) Sw. P1116.
Ipomoea hederacea Jacq. Edge of soybean field. P701.
Ipomoea lacunosa L. This species which inhabits fields and streams was cited by Jones and Fuller (1955).
*Ipomoea pandurata (L.) G.W.F.Mey. Flood plain forest. PP281.
*Ipomoea purpurea (L.) Roth Roadside near lake. P763.
*Quamoclit coccinea (L.) Moench. Roadside. P1079.

CORNACEAE

- Cornus drummondii C.A.Mey. Hillside marsh. P1430.
Cornus Florida L. Understory of wooded area. P997.
Cornus obliqua Raf. Open area, roadside. P931.
Cornus racemosa Lam. Open area, roadside. P932.
Nyssa aquatica L. This species which inhabits swamps and low woods was cited by Jones and Fuller (1955).
Nyssa sylvatica Marsh. Pasture. P921.

CRASSULACEAE

- *Sedum telephioides Michx. Moist ground, roadside. P982.

CRUCIFERAE

- *Alyssum alyssoides L. Railroad. P1352.
Arabidopsis thaliana (L.) Heynh. Roadside. P1289.
*Arabis canadensis L. Hillside, along railroad. P1343.

- Arabis laevigata (Muhl.) Poir. Edge of woods. Pl261.
*Arabis shortii (Fern.) Gleason Cultivated field near Wabash River. Eb10196.
Arabis virginica (L.) Poir. This species which inhabits rocky woods and waste ground was cited by Jones and Fuller (1955).
Barbarea vulgaris R.Br. Roadside. Pl354.
*Brassica juncea (L.) Coss. Railroad. P717.
*Camelina microcarpa Andr. Cinder track along railroad. Pl295.
Capsella bursa-pastoris (L.) Medic. Edge of cultivated field. Pl179.
Cardamine bulbosa (Schreb.) BSP. This species which inhabits wet ground was cited by Jones and Fuller (1955).
Cardamine douglassii (Torr.) Britt. Edge of woods. Pl212.
*Cardamine pennsylvanica Muhl. Soybean field which had been harvested. Pl207.
Dentaria laciniata Muhl. Edge of woods. Pl226.
Descurainia brachycarpa (Richards.) O.E.Schulz Open area along channel. Pl260.
Draba brachycarpa Mutt. This species which inhabits dry soil was cited by Jones and Fuller (1955).
*Draba reptans (Lam.) Fern. Open roadside in sandy soil. Pl231.
Draba verna L. Edge of cultivated field. Pl221.
Erysimum repandum L. This species which inhabits roadsides and fields was cited by Jones and Fuller (1955).
*Hesperis matronalis L. Hillside along railroad. P263.
*Iodanthus pinnatifidus (Michx.) Steud. Floodplain of Wabash River. P254.
*Lepidium virginicum L. Pig-lot. Pl202.
Raphanus sativus L. This species which inhabits fields and waste ground was cited by Jones and Fuller (1955).
*Rorippa islandica (Oeder) Borbas Edge of pond. P756.
*Rorippa sessiliflora (Nutt.) Hitchc. Edge of Wabash River. Pl132.
Rorippa sylvestris (L.) Besser This species which inhabits moist ground was cited by Winterringer and Evers (1960).
Sisymbrium altissimum L. Railroad. P712.
*Sisymbrium loeselii L. Roadside. Pl152.
*Sisymbrium officinale (L.) Scop. Open field. P435.
*Thlaspi arvense L. Exposed area along roadside. Pl271.

CUCURBITACEAE

Sicyos angulatus L. Embarrass River bottom. Pl83.

DIPSACACEAE

- *Dipsacus laciniatus L. Edge of cemetery. Pl942.
*Dipsacus sylvestris Huds. Open area along roadside. Pl035.

EBENACEAE

Diospyros virginiana L. Edge of pond. Pl078.

ERICACEAE

Monotropa uniflora L. Hillside under maple trees. P935.

EUPHORBIACEAE

Acalypha gracilens A.Gray Bank of pond. P803.

Acalypha ostryaefolia Riddell This species which inhabits roadsides and fields was cited by Winterringer and Evers (1960).

Acalypha rhomboidea Raf. Roadside. P2121.

Acalypha virginica L. This species which inhabits fields and roadsides was cited by Jones and Fuller (1955).

Chamaesyce maculata (L.) Small Roadside. P616.

Chamaesyce supina (Raf.) Moldenke Sandy open field. P1929.

Croton capitatus Michx. Well grazed pasture. P1158.

Croton glandulosus L. Open area along railroad. P707.

Croton monanthogynus Michx. Open area along railroad. P1947.

Euphorbia corollata L. Open area along railroad. P623.

Poinsettia dentata (Michx.) Small Sandy soil along railroad. P692.

FAGACEAE

Fagus grandifolia Ehrh. Rocky ledge of creek. P1755.

Quercus alba L. Roadside. P1120.

Quercus bicolor Willd. Roadside in woods. P1119.

Quercus imbricaria Michx. Edge of woods. P1118.

Quercus lyrata Walt. This species which inhabits swamps and bottomland woods was cited by Winterringer and Evers (1960).

Quercus macrocarpa Michx. Edge of creek. P1046.

Quercus marilandica Muench. Dry open area. P1979.

Quercus michauxii Nutt. This species which inhabits bottomlands was cited by Jones and Fuller (1955).

Quercus muhlenbergii Engelm. Roadside near Wabash River. P1131.

Quercus palustris Muench. Edge of dirt road. P2103.

Quercus rubra L. Wooded hillside. P1199.

*Quercus shumardii Buckl. Bottomland woods. Ev91476.

Quercus stellata Wang. Edge of cornfield. P1085.

Quercus velutina Lam. Roadside. P2136.

FUMARIACEAE

*Corydalis micrantha (Engelm.) A.Gray Sandy soil, roadside. P1229.

Dicentra canadensis (Goldie) Walp. Wooded hillside. P199.

Dicentra cucullaria (L.) Bernh. Wooded hillside. P200.

GENTIANACEAE

Frasera caroliniensis Walt. Roadside. P919.

*Gentiana andrewsii Griseb. Wet area along railroad. P5.

Obolaria virginica L. This species which inhabits woods and thickets was cited by Jones and Fuller (1955).

*Sabatia angularis (L.) Pursh Prairie area along railroad. P606.

GERANIACEAE

- Geranium carolinianum L. Edge of cultivated field. P223.
Geranium maculatum L. Edge of woods. P212.

GROSSULARIACEAE

- *Ribes missouriense Nutt. Wooded area. P1262.

HALORAGACEAE

- *Proserpinaca palustris L. Wet ground, edge of woods. P959.

HAMAMELIDACEAE

- Liquidambar styraciflua L. Wooded area, moist ground. P1026.

HIPPOCASTANACEAE

- Aesculus glabra L. Open area along fencerow. P898.

HYDRANGEACEAE

- *Hydrangea arborescens L. Moist shaded area along railroad. P748.

HYDROPHYLLACEAE

- *Ellisia nyctelea L. Open wet woods. P425.
*Hydrophyllum appendiculatum Michx. Woods. P248.
*Hydrophyllum canadense L. Woods. P247.
*Phacelia bipinnatifida Michx. Roadside. P1273A.
*Phacelia purshii Buckl. Roadside. P1253.

HYPERICACEAE

- *Hypericum drummondii (Grev. & Hook.) T. & G. Lowland field. T545.
*Hypericum gentianoides (L.) BSP. Open area, dry soil. P2073.
Hypericum mutilum L. Edge of pond. P761.
*Hypericum perforatum L. Roadside. P396.
*Hypericum prolificum L. Roadside. P752.
Hypericum punctatum Lam. Open woods. P1663.
Hypericum sphaerocarpum Michx. Swampy ground. P1770.

ILLECEBRACEAE

- *Paronychia canadensis (L.) Wood Edge of cultivated field. P2082.
*Paronychia fastigiata (Raf.) Fern. Dry soil open area. P2070.

JUNGLANDACEAE

- Carya cordiformis (Wang.) K.Koch Edge of woods. P1099.
Carya illinoensis (Wang.) K.Koch Roadside. P1051.
Carya ovalis (Wang.) Sarg. This species which inhabits woods was cited by Jones and Fuller (1955).

Carya ovata (Mill.) K.Koch Woods. P2089.
Carya tomentosa (Poir.) Nutt. Woods. P2088.
Juglans nigra L. Roadside. P1148.

LABIATAE

Agastache nepetoides (L.) Ktze. In valley near stream. P937.
*Agastache scrophulariaefolia (Wild.) Ktze. Open area near railroad. P880.
Blephilia hirsuta (Pursh) Benth. Woods. P1918.
*Collinsonia canadensis L. Low wet area, edge of woods. P1974.
*Glechoma hederacea L. Edge of field. P214.
Hedeoma pulegioides (L.) Pers. Roadside. P1165.
*Isanthus brachiatus (L.) BSP. Cinders of railroad. P1024.
*Lamium amplexicaule L. Roadside. P1217.
*Lamium purpureum L. Open woods. P1256.
*Leonurus cardiaca L. Open field. P1424.
Lycopus americanus Muhl. Bank of pond. P819.
Lycopus rubellus Moench This species which inhabits wet ground was cited by Winterringer and Evers (1960).
*Lycopus virginicus L. Moist soil. P1972.
*Mentha alopecuroides Hull Roadside. P1753.
*Mentha canadensis L. Moist ground. P1919.
*Monarda bradburiana Beck Burned over area. P234.
Monarda fistulosa L. Roadside. P1751.
*Nepeta cataria L. Roadside. P433.
Perilla frutescens (L.) Britt. Pasture. P1086.
*Physostegia speciosa Sweet Moist ground of abandoned field. P985.
Physostegia virginiana (L.) Benth. Railroad. P1061.
Prunella vulgaris L. Old abandoned field. P1640.
Pycnanthemum flexuosum (Walt.) BSP. Along dirt road. P397.
Pycnanthemum pilosum Nutt. Railroad. P749.
Pycnanthemum virginianum (L.) Dur. & Jacks. Roadside. P1765.
Scutellaria elliptica Muhl. This species which inhabits wooded slopes was cited by Winterringer and Evers (1960).
Scutellaria incana Biehler Wooded area. P914.
*Scutellaria lateriflora L. Moist area. P899.
Scutellaria nervosa Pursh This species which inhabits moist ground in woods was cited by Winterringer and Evers (1960).
*Stachys aspera Michx. Sandy soil along railroad. P697.
Stachys tenuifolia Willd. Open field. P1055.
Teucrium canadense L. Roadside. P1764.

LAURACEAE

Lindera benzoin (L.) Blume. Near creek in woods. P936.
Sassafras albidum (Nutt.) Nees. Pasture. P1075.

LEGUMINOSAE

Amorpha fruticosa L. Hillside marsh. P1428.
*Amphicarpa bracteata (L.) Fern. Open woods. P1008.

- Amphicarpa comosa (L.) G. Don Roadside. P1971.
- *Apios americana Medic. On fence in open area. P986.
- Baptisia leucantha T. & G. Roadside. P486.
- Cassia fasciculata Michx. Roadside. P2.
- *Cassia hebecarpa Fern. Fencerow, open area. P585.
- *Cassia marilandica L. Open field. P738.
- Cercis canadensis L. Woods, understory. P1089.
- *Coronilla varia L. Roadside. P816.
- Crotolaria sagittalis L. Dry soil along roadside. P702.
- *Desmanthus illinoensis (Michx.) MacM. Roadside. P1100.
- Desmodium alabellum (Michx.) DC. Wooded area. P1978.
- Desmodium glutinosum (Muhl.) Wood Woods. P1960.
- *Desmodium illinoense A. Gray Roadside. P1097.
- *Desmodium laevigatum Nutt. Edge of woods. P2069.
- *Desmodium longifolium (T. & G.) Smyth Edge of woods. P1967.
- *Desmodium marilandicum (L.) DC. Recently abandoned field. P2155.
- Desmodium nudiflorum (L.) DC. Edge of woods. P1757.
- Desmodium paniculatum (L.) DC. This species which inhabits open woods was cited by Jones and Fuller (1955).
- *Desmodium pauciflorum (Nutt.) DC. Woods. P916.
- Desmodium sessilifolium (Torr.) T. & G. This species which inhabits open woods was cited by Jones and Fuller (1955).
- Gleditsia tricanthos L. Edge of woods. P1176.
- Glycine max (L.) Merr. This species which is cultivated and frequently escapes to roadsides was cited by Jones and Fuller (1955).
- Gymnocladus dioicus (L.) K. Koch Roadside. P1013.
- *Lathyrus latifolius L. Roadside, moist ground. P427.
- Lespedeza capitata Michx. Open field along oil road. P975.
- Lespedeza capitata x virginica This species which inhabits open areas was cited by Jones and Fuller (1955).
- *Lespedeza cuneata (Dum.-Cours.) G. Don Edge of gravel road. P884.
- *Lespedeza intermedia (Wats.) Britt. Wooded hillside. P1186.
- Lespedeza procumbens Michx. Dry open area. P2074.
- Lespedeza stipulacea Maxim. Railroad. P2122.
- *Lespedeza striata (Thunb.) H. & A. Recently abandoned field. P2156.
- Lespedeza violacea (L.) Pers. Railroad. P2145.
- Lespedeza virginica (L.) Britt. Railroad. P2144.
- *Lotus corniculatus L. Pasture near barn. P980.
- Medicago lupulina L. Railroad. P725.
- Medicago sativa L. Railroad. P1103.
- Melilotus alba Desr. Bank of pond. P794.
- Melilotus officinalis (L.) Lam. Bank of pond. P795.
- *Phaseolus polystachyus (L.) BSP. Railroad. P724B.
- Psoralea onobrychis Nutt. Railroad. P1169.
- *Psoralea psoralioides (Walt.) Cory Edge of dirt road. P275.
- *Robinia hispida L. Escape from yard. P1349.
- *Robinia pseudoacacia L. Next to building in town. P2139.
- Strophostyles helvola (L.) Britt. Open area, roadside. P933.
- Strophostyles leiosperma (T. & G.) Piper Prairie area along railroad. P602.
- *Tephrosia virginiana (L.) Pers. Edge of woods, dry situation. P393.
- Trifolium hybridum L. Bank of pond. P792.
- *Trifolium pratense L. Roadside. P220.

- *Trifolium procumbens L. Roadside, open area. P408.
Trifolium repens L. Railroad. P1104.
*Vicia dasycarpa Ten. Railroad. P266.
Vicia villosa Roth This species which inhabits fields was cited by Winterringer and Evers (1960).

LIMNANTHACEAE

- Floerkea proserpinacoides Willd. This species which inhabits wet ground was cited by Jones and Fuller (1955).

LINACEAE

- Linum medium (Planch.) Britt. Edge of dirt road. P796.

LOBELIACEAE

- *Lobelia cardinalis L. Wet area along railroad. P3.
*Lobelia inflata L. Edge of woods. P900.
*Lobelia leptostachys A. DC. Open area near pond. P005.
Lobelia siphilitica L. Shaded roadside. P8.
Lobelia siphilitica L. f. albiflora Britt. Edge of stream along railroad. P1031.

LORANTHACEAE

- Phoradendron flavescens (Pursh) Nutt. This species which is parasitic on trees was cited by Jones and Fuller (1955).

LYTHRACEAE

- Ammannia coccinea Rottb. Sandy creek bottom. P2095.
Cuphea petiolata (L.) Koehne. Old field, open area. P1928.
*Lythrum alatum Pursh. Roadside. P615.
*Lythrum salicaria L. Roadside. P731.

MAGNOLIACEAE

- Liriodendron tulipifera L. Woods. P1019.

MALVACEAE

- Abutilon theophrasti Medic. Roadside. P966.
*Althaea rosea (L.) Cav. Railroad. P631.
*Hibiscus militaris Cav. Swampy ground. P1773.
*Hibiscus palustris L. Edge of creek near old oil field. P922.
Hibiscus trionum L. Open field, cultivated ground. P423.
*Malva neglecta Wallr. Edge of road near barnyard. P1171.
Sida spinosa L. Roadside. P967.

MELASTOMACEAE

- *Rhexia virginica L. Moist ground along railroad. P1000.

MENISPERMACEAE

- Menispermum canadense L. Terrace of floodplain woods, Wabash River. P1142.

MORACEAE

- Maclura pomifera (Raf.) Schneid. Terrace of bottomland woods, Wabash River. P1106.
*Morus alba L. Edge of cultivated field. P1969.
Morus rubra L. This species which inhabits roadsides was cited by Winterringer and Evers (1960).
*Morus tatarica L. Railroad, near lake. P1452.

NELUMBONACEAE

- *Nelumbo lutea (Willd.) Pers. Emergent in lake. P1070.

NYCTAGINACEAE

- *Mirabilis nyctaginea (Michx.) MacM. Railroad. P1329.

CLEACEAE

- *Forestiera acuminata (Michx.) Poir. Wabash River bottom in woods. P1129.
Fraxinus americana L. Edge of woods. P1175.
Fraxinus lanceolata Borzh. Marsh area. P1931.
Fraxinus pennsylvanica Marsh. This species which inhabits moist ground was cited by Jones and Fuller (1955).
Fraxinus tomentosa Michx.f. This species which inhabits moist ground was cited by Jones and Fuller (1955).
*Ligustrum vulgare L. Edge of road in woods. P1072.

ONAGRACEAE

- *Circaea latifolia Hill Wooded area. P1665.
*Epilobium coloratum Muhl. Edge of road, near creek. P1121.
*Gaura biennis L. Lowland area. P889.
*Jussiaea repens L. Very moist area. P481.
Ludwigia alternifolia L. Edge of pond. P1077.
Ludwigia palustris (L.) Ell. Edge of pond. P757.
*Ludwigia polycarpa Short & Peter Moist area at edge of pond. P1973.
Oenothera biennis L. Along dirt road in Embarrass River bottom. P273.
Oenothera laciniata Hill Railroad. P714.
*Oenothera pilosella Raf. Railroad. P1659.

OROBANCHACEAE

Epifagus virginiana (L.) Bart. Woods, under beech trees. P1020.

OXALIDACEAE

Oxalis dillenii Jacq. Open field. P221.

Oxalis stricta L. Open area. P1555.

Oxalis violacea L. Burned over area. P233.

PAPAVERACEAE

Papaver somniferum L. This species which inhabits waste places was cited by Jones and Fuller (1955).

Sanguinaria canadensis L. Wooded hillside. P1220.

PASSIFLORACEAE

Passiflora lutea L. Woods. P1949.

PENTHORACEAE

Penthorum sedoides L. Edge of shallow pond. P804.

PHRYMACEAE

Phryma leptostachya L. Wooded area. P403.

PHYTOLACCACEAE

Phytolacca americana L. Edge of woods, open area. P892.

PLANTAGINACEAE

*Plantago aristata Michx. Sandy soil along railroad. P693.

Plantago lanceolata L. Roadside. P1178.

*Plantago pusilla Mutt. Cultivated field, laying fallow. P1321.

Plantago rugelii Dec. Edge of field. P1180.

Plantago virginica L. Prairie situation. P1662.

PLATANACEAE

Platanus occidentalis L. Edge of small creek in woods. P1098.

PODOPHYLLACEAE

Caulophyllum thalictroides (L.) Michx. Hillside in woods. P1258.

Jeffersonia diphylla (L.) Pers. Hillside of mature wooded area. P1265.

Podophyllum peltatum L. Open area along roadside. P1287.

POLEMONIACEAE

- Phlox divaricata L. Wooded area. P1247.
*Phlox glaberrima L. Near stream, open area. P952.
*Phlox paniculata L. Edge of woods, near bridge. P871.
Phlox pilosa L. Roadside, near woods. P1348.
Polemonium reptans L. Woods. P1254.

POLYGALACEAE

- *Polygala ambigua Nutt. Prairie area. P402.
Polygala sanguinea L. Dry, abandoned field. P394.

POLYGONACEAE

- Polygonum aviculare L. Edge of dirt road. P1044.
*Polygonum coccineum Muhl. Edge of bridge. P1109.
*Polygonum convolvulus L. Railroad. P626.
Polygonum cristatum Engelm. & Gray This species which inhabits open woods was cited by Winterringer and Evers (1960).
*Polygonum cuspidatum Sieb. & Zucc. Open area along railroad. P965.
Polygonum erectum L. Growing in dirt road. P1042.
*Polygonum hydropiper L. Floodplain forest. P276.
*Polygonum hydropiperoides Michx. Edge of creek. P1112.
Polygonum lapathifolium L. Ditch along railroad. P1095.
Polygonum pensylvanicum L. Edge of pond. P820B.
Polygonum persicaria L. Edge of pond. P820A.
Polygonum punctatum Ell. Growing near pond. P818.
*Polygonum ranosissimum Michx. Lowland field. T518.
*Polygonum sagittatum L. Roadside. P996.
*Polygonum scandens L. Growing on fence, open area. P2181.
*Polygonum tenue Michx. Open dry area. P2072.
Polygonum virginianum L. Edge of woods. P1906.
Rumex acetosella L. Edge of pond. P811.
*Rumex altissimus Wood Hillside marsh. P1440.
*Rumex crispus L. Hillside marsh. P1441.
*Rumex obtusifolius L. Roadside. P1638.

PORTULACACEAE

- Claytonia virginica L. Wooded hillside. P1211.
*Portulaca oleracea L. Sandy edge of Wabash River. P1134.

PRIMULACEAE

- *Anagallis arvensis L. Edge of woods on hillside. P1893.
*Centunculus minimus L. Lowland field. T514.
Dodecatheon meadia L. This species which inhabits wooded hillsides or railroads was cited by Winterringer and Evers (1960).
Lysimachia ciliata L. Edge of field. P285.
*Lysimachia hybrida Michx. Moist field. P1956.

- *Lysimachia lanecolata Walt. Wooded area. P400.
- Lysimachia nummularia L. Hillside marsh. P1432.
- *Samolus parviflorus Raf. Mud at edge of pond. P759.

RAHUNCULACEAE

- Actaea alba (L.) Mill. Woods. P912.
- *Anemone canadensis L. Dirt road in flood plain of Wabash River. P252.
- *Anemone virginiana L. Wooded area. P616.
- Anemonella thalictroides (L.) Spach. Wooded hillside. P1219.
- *Aquilegia canadensis L. Wooded area. P1933.
- Clematis dioscoreifolia Levl. & Van. Climbing on fence. P1023.
- *Clematis pitcheri Torr. & Gray Sandy soil near a creek. P699.
- *Clematis virginiana L. Edge of woods, near creek. P920.
- Delphinium tricornis Michx. Woods. P1248.
- Hepatica acutiloba DC. Wooded hillside. P1216.
- *Hydrastis canadensis L. Woods. P915.
- Isopyrum bitermum (Raf.) Torr. & Gray Woods. P1203.
- Myosurus minimus L. Edge of cultivated field. P1290.
- Ranunculus abortivus L. Edge of field. P286.
- Ranunculus fascicularis Muhl. This species which inhabits woods and meadows was cited by Jones and Fuller (1955).
- *Ranunculus hispidus Michx. Wooded area. P1293.
- *Ranunculus recurvatus Poir. Hillside marsh. P1342.
- *Ranunculus sceleratus L. Shallow water in edge of lake. P1323.
- Ranunculus septentrionalis Poir. Moist ground. P1241.
- Thalictrum dasycarpum Fisch. & Lall. This species which inhabits moist ground was cited by Winterringer and Evers (1960).
- Thalictrum dioicum L. Hillside in woods. P1263.
- Thalictrum revolutum DC. Roadside. P237.

RHAMNACEAE

- *Ceanothus americanus L. Prairie area. P398.
- *Rhamnus cathartica L. Railroad. P1080.
- *Rhamnus frangula L. Edge of pond. P753.

ROSACEAE

- Agrimonia parviflora Ait. Open field. P1925.
- Agrimonia pubescens Wallr. Wooded area. P964.
- *Agrimonia rostellata Wallr. P1943.
- *Amelanchier arborea (Michx.f) Fern. Edge of woods. P1255.
- *Crataegus mollis (T. & G.) Scheele Pasture. P1041.
- Crataegus phaeopyrum (L.f.) Medic. Prairie area. P1650.
- Crataegus viridis L. This species which inhabits alluvial soil was cited by Jones and Fuller (1955).
- *Fragaria virginiana Duch. Railroad. P265.
- Geum canadense Jacq. Edge of field. P282.
- Geum laciniatum Murr. Hillside marsh. P1563.

- Geum verum (Raf.) T. & G. Moist soil. P1272.
Gillenia stipulata (Muhl.) Trel. Railroad. P264.
Malus coronaria (L.) Mill. This species which inhabits woods was cited by Jones and Fuller (1955).
*Potentilla monspeliensis L. Field in river bottom. P1191.
Potentilla recta L. Railroad. P1164.
Potentilla simplex Michx. Edge of woods. P222.
Prunus americana Marsh. Edge of dirt road. P815.
Prunus angustifolia Marsh. This species which inhabits sandy soil was cited by Jones and Fuller (1955).
Prunus munsoniana Wight & Hedr. This species which inhabits the edge of woods was cited by Jones and Fuller (1955).
*Prunus persica (L.) Batsch. Roadside. P1147.
*Prunus serotina Ehrh. Open area along fence. P910.
*Pyrus communis L. Edge of woods. P1204.
*Rosa blanda Ait. Moist roadside. P1768.
*Rosa canina L. Open field. P1454.
Rosa carolina L. Roadside. P1056.
*Rosa multiflora Thunb. Roadside. P213.
Rosa setigera Michx. Hillside marsh. P1564.
Rubus allegheniensis Porter Open field. P1786.
*Rubus flagellaris Willd. Railroad. P1422.
*Rubus ostryifolius Rydb. Edge of road. P1666.
*Rubus pennsylvanicus Poir. Roadside near creek. P1561.
*Spiraea japonica L.f. Growing along creek. P1166.

RUBIACEAE

- Cephalanthus occidentalis L. Moist ground along railroad. P724A.
Diodia teres Walt. Wooded area, near pond. P619.
Galium aparine L. This species which inhabits woods and thickets was cited by Jones and Fuller (1955).
Galium circaeazans Michx. Edge of woods. P1651.
Galium concinnum T. & G. This species which inhabits dry woods was cited by Jones and Fuller (1955).
*Galium mollugo L. Roadside, open area. P1661.
*Galium obtusum Bigel. Moist woods in tall grass. P1641.
Galium triflorum Michx. Edge of woods. P1759.
*Houstonia caerulea L. Prairie area near woods. P1318.
*Houstonia lanceolata (Poir.) Britt. Roadside. P2118.
*Spermacoce glabra Michx. Swampy ground. P1771.

RUTACEAE

- *Ptelea trifoliata L. Railroad. P258.
*Zanthoxylum americanum Mill. Edge of pond. P1010.

SALICACEAE

- *Populus alba L. Along creek in field. P742.
*Populus deltoides Marsh Edge of field in river bottom. P1190.

Populus grandidentata Michx. This species which inhabits wooded bluffs was cited by Jones and Fuller (1955).

Populus heterophylla L. Edge of swamp forest, Embarrass River. P1194.

*Populus nigra var. italica Muench. Escape from old homesite. P2151.

Salix discolor Muhl. Moist ground along edge of pond. P1920.

Salix humilis Marsh. Moist ground along dirt road. P1213.

Salix interior Rowlee Moist roadside. P415.

Salix nigra Marsh Roadside. P2090.

Salix rigida Muhl. This species which inhabits wet ground was cited by Jones and Fuller (1955).

Salix sericea Marsh This species which inhabits wet ground was cited by Jones and Fuller (1955).

SANTALACEAE

*Comandra unbellata (L.) Nutt. Open woods on hill at edge of Hudson Creek. P1314.

SAURURACEAE

Saururus cernuus L. Hillside marsh. P1799.

SAXIFRAGACEAE

Heuchera hirsuticaulis (Wheelock) Rydb. Roadside. P271.

SCROPHULARIACEAE

*Aureolaria flava (L.) Farw. Edge of woods on cliff. P992.

*Bacopa rotundifolia (Michx.) Wettst. Floating in edge of pond. P751.

*Chaenorhinum minus (L.) Lange. Railroad in cinders. P511.

*Chelone obliqua L. Edge of swamp forest, Embarrass River. P1193.

Collinsia verna Nutt. Hillside in woods. P1250.

*Dasistoma macrophylla (Nutt.) Raf. Edge of woods on small bluff. P876.

Gerardia purpurea L. This species which inhabits moist sandy soil was cited by Winterringer and Evers (1960).

Gerardia tenuifolia Vahl Sandy soil near creek along railroad. P14.

*Gratiola neglecta Torr. Lowland field. T506.

*Gratiola virginiana L. Edge of pond. P613.

Leucospora multifida (Michx.) Nutt. Edge of creek. P2096.

*Linaria vulgaris Hill Ditch in front of abandoned home. P703.

*Lindernia anagallidea (Michx.) Pennell Edge of pond. P762.

Lindernia dubia (L.) Pennell Wet area. P953.

Mimulus alatus Ait. Moist ground, open area. P1896.

Mimulus ringens L. Roadside. P744.

*Pedicularis canadensis L. Open woods on hill at edge of Hudson Creek. P1310.

- Penstemon calycosus Small This species which inhabits alluvial soil or wooded slopes was cited by Jones and Fuller (1955).
Penstemon digitalis Nutt. Roadside. P218.
*Penstemon pallidus Small Old field. P1054.
Scrophularia marilandica L. Lowland area. P888.
*Verbascum blattaria L. Roadside. P614.
Veronica arvensis L. Open area along edge of field. P1268.
Veronica peregrina L. Cultivated field. P1291.
*Veronica persica Poir. Edge of lawn. P1228.
Veronicastrum virginicum (L.) Farw. Railroad. P509.

SIMARUBACEAE

- *Ailanthus altissima (Mill.) Swingle Roadside. P2138.

SOLANACEAE

- Datura stramonium L. Edge of soybean field. P700.
*Physalis heterophylla Nees Bank of pond. P791.
Physalis subglabrata Mack. & Bush Roadside. P1066.
Solanum carolinense L. Railroad. P262.
*Solanum dulcamara L. Edge of dirt road. P399.
*Solanum nigrum L. Sandy soil. P281.

STAPHYLEACEAE

- Staphylea trifolia L. Hillside in woods. P1154.

TILIACEAE

- Tilia americana L. Terrace woods. P1130.

ULMACEAE

- Celtis occidentalis L. Roadside. P1145.
Ulmus americana L. Edge of creek. P1162.
*Ulmus pumila L. Old homesite. P2152.
Ulmus rubra Muhl. Roadside. P1122.

UMBELLIFERAE

- Chaerophyllum procumbens (L.) Crantz Shaded roadside. P1288.
Cicuta maculata L. Hillside marsh. P1781.
*Conium maculatum L. Roadside. P1351.
Cryptotaenia canadensis (L.) DC. Lowland open woods. P119.
Daucus carota L. This species which inhabits open fields and roadsides was cited by Winterringer and Evers (1960).
Daucus carota L. f. roseus Millsp. Edge of bridge. P909.
Erigenia bulbosa (Michx.) Nutt. Wooded hillside. P1210.
Eryngium yuccifolium Michx. Railroad. P968.

- Osmorhiza claytoni (Michx.) Clarke This species which inhabits woods was cited by Winterringer and Evers (1960).
*Osmorhiza longistylis (Torr.) DC. Open woods. P1556.
Oxypolis rigidior (L.) Raf. This species which inhabits swamps was cited by Jones and Fuller (1955).
*Pastinaca sativa L. Roadside. P240.
*Sanicula canadensis L. Near lake south of railroad. P781.
Sanicula gregaria Bickn. Woods. P1961.
*Sium suave Walt. Hillside marsh. P1937.
Torilis japonica (Houtt.) DC. Railroad. P512.
*Zizia aurea (L.) Koch Sandy soil. P1325.

URTICACEAE

- *Boehmeria cylindrica (L.) Sw. Bottomland woods of Wabash River. P1107.
Laportea canadensis (L.) Gaud. Wooded area. P890.
Parietaria pennsylvanica Muhl. This species which inhabits woods was cited by Winterringer and Evers (1960).
*Pilea fontana (Lunell) Rydb. Edge of stream. P2081.
Pilea pumila (L.) A.Gray Wooded area. P891.
*Urtica gracilis Ait. Roadside. P1151.

VALERIANACEAE

- Valeriana pauciflora Michx. Heavily shaded wooded area. P1330.
*Valerianella radiata (L.) DuRoi. Moist soil along railroad. P1328.

VERBENACEAE

- Phyla lanceolata (Michx.) Greene Wet area near small pond. P1559.
*Verbena bracteata Lag. & Rodr. Pasture. P1558.
*Verbena canadensis (L.) Britt. Roadside. P983.
Verbena hastata L. Abandoned field. P16.
Verbena hastata var. urticifolia This species which inhabits open woods was cited by Jones and Fuller (1955).
Verbena stricta Vent. Railroad. P709.
Verbena urticifolia L. Near small stream. P942.

VIOLACEAE

- Hybanthus concolor (Forst.) Spreng. Hillside in woods. P940.
Viola cucullata Ait. This species which inhabits wet ground was cited by Jones and Fuller (1955).
Viola eriocarpa Schw. Woods. P1249.
*Viola falcata Greene Pasture. P1320.
*Viola missouriensis Greene Open area in woods. P1298.
*Viola papilionacea Furch. Open field near woods. P1201.
Viola rafinesquii Greene Roadside. P1227.
Viola sororia Willd. This species which inhabits woods was cited by Jones and Fuller (1955).
*Viola striata Ait. Open field near woods. P1200.

VITACEAE

Ampelopsis cordata Michx. Climbing on fence. P1966.

Parthenocissus quinquefolia (L.) Planch. Climbing on fence, open area. P969.

*Vitis aestivalis Michx. Edge of cornfield. P1084.

*Vitis cinerea Engelm. Open woods. P412.

Vitis riparia Michx. Sandy soil along railroad. P691.

*Vitis vulpina L. Roadside. P2135.

ZYGOPHYLLACEAE

*Tribulus terrestris L. Sandy soil along railroad. P690.

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