PLANTS OF ILLINOIS.

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CATALOGUE

—OF THE—

PHÆNOGAMOUS

—AND—

VASCULAR CRYPTOGAMOUS

PLANTS OF ILLINOIS.

NATIVE AND INTRODUCED.

by Henry N. Townsend

OQUAWKA, ILL.:
"SPECTATOR" PRINT.
1876.

QK
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P37

PREFACE.

—o—

The following Catalogue is intended to be an almost complete list of the Phanogamous and higher Cryptogamous Plants of Illinois, with the more common introduced plants. The latter are printed in italics.

My own botanical explorations in the State having been confined to Henderson county, the Catalogue is made up mostly from lists and notes furnished by the following well known Illinois botanists :

M. S. BEBB, Fountaindale, Winnebago Co. ;	Dr. FREDERICK BRENDAL, Peoria ;
Dr. GEO. VASEY, U. S. Botanist ;	Prof. JOHN WOLF, Canton, Fulton Co. ;
Miss MARY E. HOLMES, Rockford ;	Prof. S. A. FORBES, Normal, McLean Co. ;
Miss M. E. B. NORTON, Rockford ;	Dr. S. B. MEAD, Augusta, Hancock Co. ;
Prof. H. H. BARCOCK, Chicago ;	ELIHU HALL, Esq., Athens, Menard Co ;
HENRY F. MUNROE, Esq., Chicago ;	Dr. J. SCHNECK, Mt. Carmel, Wabash Co. ;
Rev. E. J. HILL, Englewood, Cook Co. ;	Prof. G. H. FRENCH, Irvington, Washington Co. ;
And by Dr. GEO. ENGELMANN of St. Louis, and the late Dr. I. A. LAPHAM of Milwaukee.	

The following 14 species are given on the authority of GRAY'S MANUAL : *Draba cuneifolia*, Nutt. ; *Chrysogonum Virginianum*, L. ; *Bidens Beekii*, Torr. ; *Verbesina Virginica*, L. ; *Bumelia lanuginosa*, Pers. ; *Utricularia biflora*, Lam. ; *Stachys hyssopifolia*, Mx. ; *Chamaelirium luteum*, Gray ; *Heteranthera limosa*, Vahl. ; *Carex decomposita*, Muhl. ; *Trisetum palustre*, Torr. ; *Erianthus alopecuroides*, Ell. ; *Houstonia minima*, Beck.

Plants confined to the Northern part of the State are marked N. ; Central C., and Southern S. In many cases the information at hand was not sufficient to indicate the frequency of the plant, but where it seemed to be rare I have usually named all the counties wherein it has been found by the botanists named above.

When unacquainted with the habitat of the plant I have usually copied from GRAY'S MANUAL ; the arrangement of species in the same excellent work has also been followed closely.

List of Natural Orders, with number of Indigenous and Introduced Plants found in Illinois, and whole number of species native in the Northern U. S., Kentucky and Virginia, as given in GRAY'S MANUAL, 5th edition, 8th issue :

Orders.	Ill. Plants.			Orders.	Ill. Plants.		
	Indigenous.	Introduced.	Indigenous in Northern U. S.		Indigenous.	Introduced.	Indigenous in Northern U. S.
Ranunculaceae.....	39	2	55	Cruciferae	26	7	46
Magnoliaceae.....	3		5	Capparidaceae.....	1	2	1
Anonaceae.....	1		1	Violaceae.....	11		17
Menispermaceae.....	3		3	Cistaceae.....	4		8
Berberidaceae.....	3		5	Droseraceae.....	2		4
Nymphaeaceae.....	6		6	Hypericaceae.....	15	1	19
Sarraceniacae.....	1		2	Elatinaceae.....	2		1
Papaveraceae.....	2	1	2	Caryophyllaceae.....	14	7	35
Fumariaceae.....	6		7	Portulacaceae.....	3	1	4

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Orders.	Ill. Plants.		Indigenous in Northern U. S.
	Indigenous.	Introduced.	
Malvaceae.....	7	5	12
Tiliaceae.....	2		2
Camelliaceae.....			2
Linaceae.....	3		3
Geraniaceae.....	7		9
Rutaceae.....	2		3
Anacardiaceae.....	6		6
Vitaceae.....	6		8
Rhamnaceae.....	5		6
Celastraceae.....	3		3
Sapindaceae.....	6		10
Polygaceae.....	8		14
Leguminosae.....	69	4	101
Rosaceae.....	50		72
Calycanthaceae.....			3
Saxifragaceae.....	12		35
Crassulaceae.....	3		7
Hamamelaceae.....	2		3
Haloragaceae.....	7		9
Onagraceae.....	18		29
Melastomaceae.....	1		3
Lythraceae.....	6		9
Loasaceae.....	1		1
Cactaceae.....	1		3
Passifloraceae.....	1		2
Cucurbitaceae.....	2		3
Umbelliferae.....	25	3	39
Araliaceae.....	4		6
Cornaceae.....	9		11
Caprifoliaceae.....	14		29
Rubiaceae.....	18		20
Valerianaceae.....	4		7
Dipsacaceae.....		1	
Compositae.....	188	12	289
Lobeliaceae.....	7		13
Campanulaceae.....	5		5
Ericaceae.....	14		68
Galacineae.....			1
Aquifoliaceae.....	2		11
Ebenaceae.....	1		1
Sapotaceae.....	2		2
Styracaceae.....			5
Plantaginaceae.....	5	2	7
P Umbaginaceae.....			1
Primulaceae.....	10	1	16
Lentibulaceae.....	5		13
Bignoniaceae.....	4		4
Orobanchaceae.....	5		5
Scrophulariaceae.....	28	4	54
Acanthaceae.....	3		3
Verbenaceae.....	8		9
Labiatae.....	37	6	51
Borraginaceae.....	11	5	16
Hydrophyllaceae.....	8		12
Polemoniaceae.....	8		14
Convolvulaceae.....	13	2	18
Solanaceae.....	6	5	7
Gentianaceae.....	12		25
Loganiaceae.....	1		5
Apocynaceae.....	4		4
Asclepiadaceae.....	19		23

Orders.	Ill. Plants.		Indigenous in Northern U. S.
	Indigenous.	Introduced.	
O'eaceae.....	6		9
Aristolochiaceae.....	3		6
Nyctaginaceae.....	1		1
Phyto accaceae.....	1		1
Chenopodiaceae.....	4	7	12
Amarantaceae.....	3	4	5
Polygonaceae.....	21	8	27
Lauraceae.....	2		5
Thymelaeaceae.....	1		1
Elaeagnaceae.....	1		2
Santalaceae.....	1		3
Loranthaceae.....	1		1
Saururaceae.....	1		1
Ceratophyllaceae.....	1		1
Callitrichaceae.....	4		4
Podostemaceae.....			1
Euphorbiaceae.....	20	2	29
Eupetraceae.....			2
Urticaceae.....	13	2	15
Platanaceae.....	1		1
Juglandaceae.....	8		9
Cupuliferae.....	16		24
Myricaceae.....	1		3
Betulaceae.....	5		11
Salicaceae.....	19		22
Coniferae.....	11		21
Araceae.....	5		7
Lemnaceae.....	5		9
Typhaceae.....	3		5
Naiadaceae.....	18		29
Alismaceae.....	11		14
Hydrocharitaceae.....	3		3
Burmanniaceae.....			1
Orchidaceae.....	28		57
Amaryllidaceae.....	3		4
Hamodoraceae.....	1		4
Bromeliaceae.....			1
Iridaceae.....	3	1	7
Dioscoreaceae.....	1		1
Smilacene.....	5		10
Liliaceae.....	32		57
Juncaceae.....	13		31
Pontederiaceae.....	4		4
Commelyneaceae.....	5		6
Xyridaceae.....	1		5
Eriocaulonaceae.....			5
Cyperaceae.....	131		248
Gramineae.....	99	21	177
Total Phænogamous.....	1376		2275
Equisetaceae.....	8		11
Filices.....	36		57
Lycopodiaceae.....	5		19
Hydropterides.....	1		3
Total.....	1426	116	2365
No. enumerated in Lap- ham's List, (1856).....	1052	75	
No. species added in this Catalogue.....	374	41	

GEOGRAPHICAL DISTRIBUTION OF ILLINOIS PLANTS.

No. plants found only in the Northern third of the State.....	156
" Northern plants extending into or through centre of State 57—Northern plants :	213
" confined to Southern third of State.....	156
" Southern plants extending into or through centre of State 128—Southern plants :	284
" confined to Western portion of the State.....	20
" " " central " ".....	11
" plants (mostly maritime) found only near Lake Michigan.. 14—Of limited range :	542
" plants ranging throughout the State.....	787
" " whose range is not yet satisfactorily determined.....	97

I shall be happy to receive, from persons who have collected, or may in future collect in Illinois, information concerning:

I. Any native or thoroughly naturalized plant not given in this Catalogue, with a specimen of the plant :

II. Extension of the range of plants marked N., C., S., &c.—if only to a single county ;

III. Notes on any peculiarities of our plants, new hybrids, etc., not mentioned in our Botanies.—These additions and corrections will be issued in a supplement, at the end of each collecting season.

OQUAWKA, ILLS., March 1, 1876.

HARRY N. PATTERSON.

CATALOGUE.

RANUNCULACEÆ.

CLEMATIS

Viorna, L.

C. & S.

Along Crooked Creek and Illinois River near Beardstown, Mead. Wabash county, Schneck. Near Carbondale, Jackson county, and borders of lakes in Union, Forbes. Rare.

Pitcheri, T. & G.

River banks. Near Joliet, Will county, Munroe, and common in Kankakee, Hill; Fulton, Mead; Marion and Sangamon, Bebb; Wabash, Schneck. From Henderson county (rare) southward along the Mississippi. Rather rare.

Virginiana, L.

Banks of streams. Rare northward.

ANEMONE

patens, L. var. Nuttalliana, Gr. N.

Prairies of the extreme north, where it is not rare: McHenry county, Vasey; Winnebago, Bebb; Jo Daviess, Brendel.

Caroliniana, Walt.

Prairies and barrens. Ogle county, Bebb; and southward. Scarce.

cylindrica, Gray.

Dry prairies and barrens. Infrequent.

Virginiana, L.

With the last species and more common.

Pennsylvanica, L.

Low grounds, borders of woods, &c. Common.

nemorosa, L.

Woods. Infrequent.

HEPATICA

triloba, Chaix.

Hillsides. McHenry, Vasey: near Joliet, Babcock; along the Wabash River, Forbes, Schneck. Rare.

acutiloba, DC.

Hillsides. Common.

THALICTRUM

anemonoides, Michx.

Woods. Common.

dioicum, L.

Dry woods, &c. Frequent.

purpurascens, L.

Low grounds, borders of thickets, &c. Common.

var. ceriferum, C. F. Austin.

With the last, near Chicago, Babcock, and Kankakee, Hill.

Cornuti, L.

Low grounds. Frequent.

TRAUTVETTERIA

palmata, Fisch. & Meyer.

In moist ground along a branch of the Sangamon River, near the Mounds, about three miles North-east of Beardstown, Cass county, Mead.

RANUNCULUS

divaricatus, Schrank. C. & N.

Ponds. Frequent in Mississippi bottoms, Henderson county: Hancock, Mead; Menard, Hall; and northward. Scarce.

aquatilis, L., v. trichophyllus, Chx.

Ponds near Chicago, Babcock: McHenry county, Vasey; Winnebago, Bebb; Wabash, Schneck. Scarce.

multifidus, Pursh.

Ponds, throughout the State. Common.

var. terrestris, Gray. N.

Hyde Park near Chicago, Babcock.

oblongifolius, Ell. S.

Wet prairie near Odin, Marion county, Bebb; St. Clair, Brendel; Jackson, Forbes. Scarce.

alismæfolius, Geyer.

Margins of ponds. Hancock county, Mead, and common in Fulton, Wolf; St. Clair, Brendel; Washington, French.

Cymbalaria, Pursh. N-E.

Lake shore near Chicago, Babcock, and Calumet, Hill.

rhomboideus, Goldie. N.

Prairies of the extreme north. Winnebago Co., the very earliest harbinger of spring. Bebb; and McHenry, Vasey.

abortivus, L.

Damp woods along streams. Common.

var. *micranthus*, Gray.

With the typical form in Menard county, Hall; Marion, Bebb, and Washington, French.

sceleratus, L.

Near West Side artesian well. Chicago, Munroe.

recurvatus, Poir.

Woods. Common.

Pennsylvanicus, L.

In ditches, along streams, &c.

fascicularis, Muhl.

Dry prairies, hillsides. Common.

repens, L.

Banks of streams, wet meadows. Common.

var. *HISPIDUS* in Hancock and Washington.

acris, L.

Wabash county, Schneck.

MYOSURUS

minimus, L. W. & S.

Damp prairies of Hancock co., Mead; Marion, Bebb, and Washington, French. Rare.

ISOPYRUM

biteratum, T. & G.

Moist, shady places. Common.

CALTHA

palustris, L. C. & N.

Wet meadows, &c., from Fulton county (Wolf) northward. Frequent.

AQUILEGIA

Canadensis, L.

Rocky hillsides. Common.

DELPHINIUM

Consolida, L.

Sparsely escaped from gardens.

tricorne, Michx.

C. & S.

Rich prairies, Henderson Co., Peoria (Brendel) and southward. Frequent.

azureum, Michx.

W.

Prairies and barrens, not rare in Henderson and Hancock counties near the Mississippi.

HYDRASTIS

Canadensis, L.

Rich woods throughout the State, but rare.

ACTÆA

spicata, L. var. *rubra*, Michx.

Rich woods, Hancock county, Mead, and northward. Also in Wabash, Schneck. Scarce.

alba, Bigel.

Rich woods, throughout the State.

CIMICIFUGA

racemosa, Ell.

Rich woods. St. Clair county, Vasey, Brendel; Wabash, Schneck; Winnebago, Miss Norton. Rare.

MAGNOLIACEÆ.

MAGNOLIA

acuminata, L.

S.

Johnson county, Schneck: common in Union. Vasey, Forbes, Wolf.

Umbrella, Lam.

S.

This species was given in Mr. I. A. Lapham's Catalogue of Illinois Plants in Trans. Ills. Ag'l Soc'y, Vol. II. He says of it:

My herbarium contains a specimen of leaves received from the late Robert Kennicott marked "No. 6, Cucumber Magnolia; Cache bottoms." As the leaves are too narrow and too much tufted at the ends of the branches to agree with *M. acuminata*, I added to the label the specific name *UMBRELLA*: this is my authority for including it in the List of Illinois Plants.

Dr. Brendel has "sought for it in vain along the Cache River, where it is said to grow."

LIRIODENDRON

Tulipifera, L.

S.

River banks from Jackson and Wabash counties southward.

ANONACEÆ.

ASIMINA

triloba, Dunal.

River bottoms. Lee county near Dixon, Vasey; Kankakee, Hill; rare. More common south.

MENISPERMACEÆ.

COCCULUS

Carolinus, DC. S.

Banks of streams. Wabash county, Schneek ;
Jackson, French: and southward.

MENISPERMUM

Canadense, L.

Banks of streams. Common.

CALYCOCARPUM

Lyoni, Nutt. S.

Jackson county, French, Forbes. Rare.

BERBERIDACEÆ.

CAULOPHYLLUM

thalictroides, Michx.

Rich woods. Frequent.

JEFFERSONIA

diphylla, Pers.

Woods. Peoria county, Brendel ; Kankakee,
Hill : Kane, Vasey. Rare.

PODOPHYLLUM

peltatum, L.

Rich woods. Common.

NYMPHÆACEÆ.

CABOMBA

Caroliniana, Gray. S.

Reported by Dr. Schneek as not rare in Wabash
county. I have not seen specimens.

BRASENIA

peltata, Pursh.

McHenry Co., Vasey : Cook, Munroe ; Cass, near
Beardstown, Mead : Wabash, Schneek : Union.
Forbes. Scarcely.

NELUMBium

luteum, Willd.

Ponds, throughout the State, especially in the
Mississippi bottoms. Frequent.

NYMPHÆA

tuberosa, Paine.

Ponds and sloughs. Common, especially north.

NUPHAR

advena, Ait.

Ponds and slow streams. Common.

sagittifolia, Pursh. S.

Wabash county, Schneek.

SARRACENIACEÆ.

SARRACENIA

purpurea, L. N.

Bogs near Chicago, Babcock ; McHenry, Vasey.

PAPAVERACEÆ.

ARGEMONE

Mexicana, L.

Sparingly escaped from gardens to roadsides
and waste places.

STYLOPHORUM

diphyllum, Nutt.

Rich woods. Near Makanda, Jackson county.
French. Rare.

SANGUINARIA

Canadensis, L.

Rich woods on hillsides. Common.

FUMARIACEÆ.

ADLUMIA

cirrrosa, Raf. N.

Ogle county, Bebb ; Kankakee, Hill ; near Lin-
coln Park, Chicago, probably introduced, Bab-
cock. Rare.

DICENTRA

Cucullaria, DC.

Rich woods on hillsides. Common.

Canadensis, DC. N.

Frequent about Lockport, Will county, Babcock.

CORYDALIS

glauca, Pursh.

Very sparingly on a sandstone cliff below Ore-
gon, Ogle county, Bebb.

flavula, Raf. S.

Wabash county, Schneek.

aurea, Willd.

Dr. Mead collected specimens in the Mississip-
pi bottoms, near Warsaw, with pendant pods,
but without flowers ; in Kankakee county Rev.
Hill finds plants with mostly the minute flowers
of the variety *MICRANTHA*, but some of the up-
per flowers conspicuously spurred—the pods all
ascending.

var. *micrantha*, Engelm.

Sandy river banks, &c., throughout the State.
Scarcely.

NASTURTium

officinale, R. Br.

Northern counties, Bebb, Vasey.

sessiliflorum, Nutt.

C. & S.

Henderson, Peoria and Kankakee counties, and southward. Scarce.

At Oquawka the typical form, growing in the edges of ponds, flowers in May and June, while a dwarf, much branched form, common on sand bars and low banks of the Mississippi, flowers until killed by frost in October.

obtusum, Nutt.

Menard county, Hall.

Rare.

palustre, DC.

Low grounds.

Common.

lacustre, Gray.

Wabash, Schneck; Sangamon, Hall; Hancock, Mead; and northward. Frequent.

Armoracia, Fries.

Escaped from gardens.

Frequent.

DENTARIA

laciniata, Muhl.

Rich woods.

Common.

CARDAMINE

rhomboidea, DC.

Along streams.

Common.

var. *purpurea*, Torr.

N.

Kankakee, Hill; Chicago, Munroe; Winnebago, Bebb.

hirsuta, L.

Low grounds.

Common.

var. *sylvatica*, Gray.

C. & S.

Hancock, Mead; and southward.

ARABIS

Ludoviciana, Meyer.

C. & S.

Banks of the Mississippi near Warsaw, Mead; Fulton county, Wolf; Menard, Hall; common in waste places about Salem, Marion county, Bebb; St. Clair, Brendel.

lyrata, L.

N.

Sandy barrens and rocky hills. Kankakee and Cook counties and westward. Common in Henderson.

dentata, T. & G.

Rich woods along streams.

hirsuta, Scop.

Dry woods and rocky hills.

lævigata, DC.

Rocky hillsides.

Infrequent.

Canadensis, L.

C. & N.

Hancock and Menard counties and northward.

hesperidoides, Gray.

River banks. Will county, Monroe; Peoria, Brendel; Henderson; and southward. Scarce.

perfoliata, Lam.

N.

Rocky hillsides. Winnebago county, Miss Norton; Elgin, Kane county, Vasey.

Drummondii, Gray.

N.

Rocky hillsides. Lee county near Dixon, Vasey; Winnebago, Bebb.

BARBAREA

vulgaris, R. Br.

N.

McHenry county, Vasey; and about gardens at Augusta, Mead.

ERYSIMUM

cheiranthoides, L.

N.

Banks of streams. Hancock county, Mead, and Henderson; Kankakee, Hill; Winnebago, Bebb. Rare.

asperum, DC.,var. *Arkansanum*, Nutt.

Barrens, Mason and Cass counties, Mead, Wolf. Rare.

SISYMBRIUM

officinale, Scop.

Roadsides and waste places. A common weed.

canescens, Nutt.

Throughout the State.

Frequent.

Sophia, L.

Roadsides in a German settlement, Stephenson county, evidently a chance importation from "fatherland"—Bebb.

BRASSICA

Sinapisrum, Boissier.

Fields and waste places. About Chicago, Kankakee, Mt. Carmel, &c. Scarce.

nigra, Gray.

Fields and waste places.

Frequent.

DRABA

brachycarpa, Nutt.

S.

Wabash county, Schneck.

euneifolia, Nutt.

S.

Credited to Illinois in Gray's Manual.

Caroliniana, Walt.

Dry prairies and barrens.

Common.

var. *micrantha*, Gray.

Winnebago county, Bebb.

CAPSĒLLA

Bursa-pastoris, *Manch.*

A common weed.

LEPIDIUM

Virginicum, L.

Roadsides.

Common.

intermedium, Gray.

Marion and Washington counties, Bebb, French; common about Chicago, Babcock; McHenry, Vasey.

CAKILE

Americana, Nutt.

N-E.

Lake shore at Chicago, Munroe, Babcock.

CAPPARIDACEÆ.

POLANISIA

graveolens, Raf.

Sandy river banks, roadsides. Common north.

CLEOME

integrifolia, T. & G.

Common and spreading along roadsides and in waste places about Oquawka; sparingly escaped from cultivation at Chicago, Munroe. As it is not eaten by domestic animals, this pretty plant will probably become a common roadside weed.

speciosissima, *Deppe.*

Sparingly escaped from gardens southward.

VIOLACEÆ.

SOLEA

concolor, Ging.

C. & S.

Woods. Tazewell county, Brendel; Menard, Hall; Marion, Bebb.

Rare.

VIOLA

lanceolata, L.

Lee county, Vasey; Chicago, Babcock. Rare.

blanda, Willd.

Cook county, Babcock, and near Elgin, Vasey.

 cucullata, Ait.

Low grounds.

Common.

var. palmata, Gray.

With the typical form.

Frequent.

delphinifolia, Nutt.

Prairies, throughout.

Common.

"In cultivation the leaf seems to revert to *V. cucullata*—Babcock. "Apparently an extreme variation of *V. palmata*—Bebb.*pedata*, L.

Dry prairies and barrens. Flowers sometimes pure white. Common.

var. bicolor, Gray.

With the typical form in Henderson county; Hancock, Mead; Peoria, Brendel. Rare.

sagittata, Ait.

Prairies and fields.

Common.

canina, L., *var. sylvestris*, Regel.

Rich woods. Hancock county, Mead; Peoria, Brendel; common near Chicago, Babcock.

striata, Ait.

C. & S.

Rich woods. Hancock county, Mead; Marion, Bebb; Wabash, Schneck.

Scarce.

pubescens, Ait.

Rich woods.

Common.

var. eriocarpa, Nutt.

Winnebago and Marion counties, Bebb. Rare, or unnoticed.

var. scabriuscula, T. & G.

Kankakee county, Hill.

tricolor, L., *var. arvensis*, Gray.

Cultivated grounds, Hancock county, Mead; and southward. "Undoubtedly native south." Vasey.

CISTACEÆ.

HELIANTHEMUM

Canadense, Michx.

Dry prairies and barrens.

Common.

HUDSONIA

tomentosa, Nutt.

N.

Near Dixon, Vasey.

Rare.

LECHEA

major, Michx.

Dry prairies and woods.

Infrequent.

minor, Lam.

Prairies and barrens.

Common.

A tall "Western form with strict habit and caespitose foliage" in Winnebago county, Bebb.

L. *TENUIFOLIA*, Mx.—Sandstone cliffs, Ogle county, also in Marion, Bebb; common in barrens of Henderson; Adams, Mead.L. *RACEMULOSA*, Mx.—Schuyler county, Mead.

DROSERACEÆ.

DROSERA

rotundifolia, L.

N.

Bogs near Chicago, Babcock.

longifolia, L. N.
Near Chicago, Babcock; Kankakee county, Hill.

HYPERICACEÆ.

ASCYRUM

Cruix-Andrææ, L. S.
Washington county, French; Union, Brendel.

HYPERICUM

pyramidatum, Ait. C. & N.
Banks of streams. Menard county, (a single plant,) Hall; Hancock, Mead; Peoria, Brendel; and northward. Rare.

Kalmianum, L. N-E.
Common along lake shore about Chicago, flowering from June to October, Babcock.

prolificum, L. C. & S.
Dry banks of streams in Hancock county, Mead; and southward.

adpressum, Barton. S.
St. Clair county, Brendel; Wabash, Schneck.

nudiflorum, Michx.
Low grounds, Cook and Lee counties, Vasey; and southward. Scarce.

sphaerocarpon, Michx.
Dry prairies and rocky hillsides, throughout the State. Scarce.

ellipticum, Hook.
St. Clair county, Brendel; Fulton, Wolf.

perforatum, L.
Chicago, Babcock; Peoria, Brendel; Wabash county, Schneck. Rare.

corymbosum, Muhl.
Damp places. Common.
"There is a narrow-leaved variety"—Brendel.

mutilum, L.
Low grounds. Common.

var. *gymnanthum*, Gray.
Kankakee county, Hill; Hancock, Mead; Mason and Menard, Bebb, Hall. Scarce.

Canadense, L.
Low grounds. Menard county, Hall; and northward.

var. *major*, Gray.
With the typical form. Hancock county, Mead; Kankakee, Hill; and northward.

Drummondii, T. & G. S.
Marion and Washington counties, Bebb, French; Union, Forbes.

Sarothra, Michx. Frequent.
Sandy grounds.

ELODES

Virginica, Nutt.
Swamps. McHenry county, Vasey; Peoria, Brendel; and southward.
petiolata, Pursh. S.
Wabash county, Schneck.

ELATINACEÆ.

ELATINE

Americana, Arnott. C.
Floating on the surface and rooting in the margin of a stagnant pond in Sangamon county, Bebb; Menard, Hall.

BERGIA

Texana, Seubert.
"Diffusely branched from the base; stems ascending, puberulent; leaves oblong-spatulate, rather acute, serrate, tapering into a short petiole; flowers on short pedicels, mostly solitary in the axils.—Stems 6–10 in. high, glandular or hispid-pubescent; sepal's denticulate, exceeding the narrowly oblong obtuse petals; stamens 5 or 10; dehiscence septifragal, as in ELATINE, the entire septum remaining attached to the axis."—KING'S REPORT, Vol. V.
Southern Texas; Nevada. Found in St. Clair county, two miles south of St. Louis, by Mr. H. Eggert.—Engelmann.

CARYOPHYLLACEÆ.

SAPONARIA

officinalis, L.
Roadsides and waste places about gardens.

VACCARIA

vulgaris, Host.
In wheat fields, along railroads, &c. Scarce.

SILENE

stellata, Ait.
Woods. Common.

nivea, DC.
Sangamon county, Bebb; Peoria, Brendel; along creeks in Hancock and Schuyler, Mead; Ogle, Bebb. Also along railroad in Henderson county, and near Chicago, Babcock. Rare.

inflata, Smith.
Occasionally found in wheat fields.

regia, Sims. S.
St. Clair county, Brendel. Rare.

Virginica, L.

Abundant on wooded banks of Desplaines River near Chicago, Babcock. Rare.

antirrhina, L.

Dry prairies and sandy barrens. Common.

LYCHNIS***Githago, Lam.***

Wheat fields. Frequent.

ARENARIA***stricta, Michx.* N.**

Kankakee county, Hill; Winnebago, Bebb; McHenry, Vasey; Cook, Babcock.

***lateriflora, L.* C. & N.**

Damp woods. Hancock county, Mead; and northward. Infrequent.

STELLARIA***media, Smith.***

Damp places. Frequent.

longifolia, Muhl.

Wet meadows. Frequent.

***crassifolia, Ehrh.* N.**

Ringwood, McHenry county, Vasey.

CERASTIUM***vulgatum, L.***

Frequent.

viscosum, L.

Frequent.

nutans, Raf.

Damp places. Common.

oblongifolium, Torr.

Wabash county, Schneck; Lee, Vasey; Kankakee, Hill; Winnebago, Bebb. Scarce.

SAGINA***subulata, Wimmer?* S.**

Common in Jackson and Union counties, Vasey. Forbes. "Apetalous late in the season." Vasey.

ANYCHIA***dichotoma, Michx.***

Dry woods, &c. Common.

MOLLUGO***verticillata, L.***

Roadsides, sandy river banks. Common.

PORTULACACEÆ.**PORTULACA*****oleracea, L.***

A common weed in gardens and fields.

TALINUM***teretifolium, Pursh.***

Sandy prairies and barrens. Henderson county: Ogles, Bebb; near Dixon, Vasey. Rare, or overlooked. Easily found when the flowers are expanded, about four o'clock in the afternoon.

CLAYTONIA***Virginica, L.***

Rich woods. Common.

Caroliniana, Michx.

With the last in Hancock county, Mead; near Chicago, Vasey. Rare.

MALVACEÆ.**MALVA*****rotundifolia, L.***

Roadsides and waste places. Common.

sylvestris, L.

Sparingly escaped from gardens.

CALLIRRHŌE***triangulata, Gray.***

Sandy barrens. Cass county, Mead; and northward. Scarce.

NAPÆA***dioica, L.***

C. & N.

Open bushy places near Peoria, Winnebago county, and along Railroad near Freeport, Bebb; McHenry county, Vasey; Will, Munroe; Peoria, Brendel; along Spoon River, Fulton county, Mead, Wolf. Rare.

MALVASTRUM***angustum, Gray.***

W.

On Rock Island, 1866—the locality now covered with buildings—Engelmann.

SPHÆRALCEA***acerifolia, Nutt.***

N.

"Scabrous with a stellate pubescence; leaves cordate, deeply 5-7-lobed; lobes acute, coarsely serrate; racemes leafy below, naked above, the flowers clustered on short peduncles; carpels 12-14, pointless. Stem 3-6 feet high, much branched; leaves 2-6 in. in diameter; petals $\frac{3}{4}$ -1½ in. in length, light purple or nearly white." —KING'S REPORT, Vol. V.

A pretty plant, formerly found only near the Pacific coast. Discovered by Rev. E. J. Hill on an island in the Kankakee River near Alton, Kankakee county.

SIDA***spinosa, L.***

C. & S.

Roadsides and waste places. Common in Henderson county; Peoria, Brendel; and southward.

ABUTILON

Aricennæ, Gærtn.

Fields and waste places. Becoming too common in many places.

HIBISCUS

Moscheutos, L.

S.

River banks. St. Clair county, Brendel : Wabash, Schneck.

grandiflorus, Michx.

S.

River banks. Marion county, Bebb ; Washington, French ; Wabash, Schneck ; and southward.

militaris, Cav.

C. & S.

River banks. Henderson county ; Peoria, Munroe, Brendel : Kankakee, Hill : and southward. Frequent.

Trionum, L.

Escaped from gardens to roadsides and waste places. Frequent.

TILIACEÆ.

TILIA

Americana, L.

River banks.

Common.

var. pubescens, Gray.

Fulton county, Wolf.

heterophylla, Vent.

Fulton county, Wolf ; Wabash, Schneck.

LINACEÆ.

LINUM

Virginianum, L.

Dry soils. McHenry, Vasey ; near Chicago, Munroe : and frequent southward.

striatum, Walt.

Richview, Washington county, Vasey.

sulcatum, Riddell.

Prairies.

Frequent.

GERANIACEÆ.

GERANIUM

maculatum, L.

In woods.

Common.

Carolinianum, L.

Throughout the State.

Frequent.

FLÆRKEA

proserpinacoides, Willd.

Banks of streams, &c. Peoria county, Brendel, Wolf ; near Chicago, Munroe, Babcock. Rare.

IMPATIENS

pallida, Nutt.

Rich woods along streams.

Common.

fulva, Nutt.

With the last.

Common.

OXALIS

violacea, L.

Dry prairies and hillsides.

Common.

stricta, L.

Open woods, roadsides and waste places.

Common.

RUTACEÆ.

ZANTHOXYLUM

Americanum, Mill.

Rocky hillsides and banks of streams.

Frequent.

PTELEA

trifoliata, L.

Banks of streams.

Common.

ANACARDIACEÆ.

RHUS

typhina, L.

Chicago, Vasey ; Wabash county, Schneck ; in herb. Miss Holmes from Bureau county. Rare.

glabra, L.

Hillsides.

Common.

copallina, L.

Rocky hillsides. Ogle county, Bebb ; McHenry, Vasey ; Chicago, Babcock ; also from Adams county, Mead, southward.

venenata, DC.

N.

Swamps, McHenry county, Vasey ; near Chicago, Babcock.

Toxicodendron, L.

Rich woods along streams, &c.

Common.

aromatica, Ait.

Sandy river banks.

Infrequent.

VITACEÆ.

VITIS

æstivalis, Michx.

Woods along streams.

Common.

var. ? *cinerea*, Engelm.

River banks. Common at Canton landing on the Illinois River, Fulton county. Wolf; Menard, Hall; and southward.

cordifolia, Michx.

Woods. Common.

riparia, Michx.

With the last.

indivisa, Willd. C. & S.

River banks. Schuyler county. Mead; St. Clair, Brendel; Jackson and Union. Vasey, French, Forbes.

bipinnata, T. & G. S.

Near Chester, Randolph county. Mead; Grand Tower, Jackson county. French, Forbes; Union, Wolf, and Pulaski, Brendel.

AMPELOPSIS

quinquefolia, Michx.

Woods. Common.

RHAMNACEÆ.

RHAMNUS

lanceolatus, Pursh. C.

River banks. From Henderson. Hancock and Menard counties eastward. Infrequent.

alnifolius, L'Her. N.

Swamps. Peoria county. Brendel; McHenry, Vasey. Rare.

FRANGULA

Caroliniana, Gray. S.

River banks. Grand Tower, Jackson county, Vasey, Brendel, &c.; Union, Wolf.

CEANOTHUS

Americanus, L.

Dry prairies and barrens. Common.

ovalis, Bigel. N.

Winnebago county, near Beloit, Wis. Bebb.

CELASTRACEÆ.

CELASTRUS

scandens, L.

Woods along streams. Common.

EUONYMUS

atropurpureus, Jacq.

Rich woods. Common.

Americanus, L.

Near Chicago, Babcock; Wabash Co., Schneck. Rare.

var. *obovatus*, T. & G.

River-side, Cook county, Babcock, Munroe; Jackson county, Vasey. Rare.

SAPINDACEÆ.

STAPHYLEA

trifolia, L.

Woods along streams. Frequent.

ÆSCULUS

glabra, Willd. C. & S.

River banks. Henderson county; Peoria, Brendel; and southward. Common.

A tree with smooth fruit near Oquawka.

ACER

saccharinum, Wang.

River banks. Common.

var. *nigrum*, Gray. C. & S.

Hancock county, Mead; and southward.

dasycarpum, Ehrh.

River banks. Common.

rubrum, L.

River banks. Marion county. Bebb; and common southward.

NEGUNDO

aceroides, Mœnch.

River banks. Common.

POLYGALACEÆ.

POLYGALA

incarnata, L.

Prairies. Scarce.

sanguinea, L.

Wet meadows. Common.

cruciata, L. N.

Borders of swamps. Lee county, Vasey; Kankakee, Hill; and northward. Frequent.

verticillata, L.

Dry prairies and barrens. Common.

ambigua, Nutt.

Chicago, Vasey; Hancock county. Mead; Marion, Bebb; Washington, French.

Senega, L.

Prairies and open woods. Common.

var. *latifolia*, T. & G.

With the typical form in Henderson county; Marion county. Bebb.

- polygama*, Walt. C. & N.
Cass county, Mead ; Kankakee, Hill : Chicago, Babcock. Scarce.
- paucifolia*, Willd. N.
Thornton, Cook county, Hill. Rare.

LEGUMINOSÆ.

LUPINUS

- perennis*, L.
Kankakee county, Hill : Ogle, Bebb ; McHenry, Miss Holmes ; common about Chicago, Babcock. I do not hear of it southward.

CROTALARIA

- sagittalis*, L. C. & S.
Peoria county, Brendel ; Cass, Mead ; and common southward.

TRIFOLIUM

- arvense*, L.
Roadsides, &c. Scarce.

- pratense*, L.
Common in fields, &c.

- reflexum*, L.
Near Chicago, Babcock ; Peoria county, Brendel ; Fulton, Wolf ; Marion, Bebb ; Jackson and Union, Forbes. Scarce.

- stoloniferum*, Muhl.
Hancock county, Mead ; Washington, French.

- repens*, L.
Everywhere.

MELILOTUS

- officinalis*, Willd.
Waste places. Scarce.

- alba*, Lam.
Waste places about gardens. Frequent.

PSORALEA

- Onobrychis*, Nutt.
River banks. Kankakee (abundant) Hill : Hancock, Mead ; Peoria, Brendel ; and southward. Scarce.

- melilotoides*, Michx. S.
Marion, Bebb : St. Clair, Brendel ; and southward.

- floribunda*, Nutt.
Cook county, Babcock, and Will, Hill : Peoria, Brendel ; Hancock, Mead ; Menard, Hall. Rare.

DALEA

- alopecuroides*, Willd. S.
St. Clair county, Brendel : Union, Vasey.

PETALOSTEMON

- violaceus*, Michx.
Prairies. Common.

- candidus*, Michx.
Prairies. Common.

- foliosus*, Gray.
Banks of Fox River, Kane county, Burgess Truesdell, in Gray's Manual ; on the gravelly banks of an island in the Kankakee River, near Altorf, Kankakee county. Rev. Hill found a few plants in 1873. Very rare.

AMORPHA

- fruticosa*, L.
Banks of streams. Frequent.

- canescens*, Nutt.
Prairies and barrens. Common.

ROBINIA

- Pseudacacia*, L. S.
Commonly cultivated and spontaneous. "Undoubtedly indigenous on the banks of the Ohio," Vasey, Forbes.

WISTARIA

- frutescens*, DC. S.
Washington county, French : Wabash, Schneck.

TEPHROSIA

- Virginiana*, Pers.
Prairies and barrens. Common.

ASTRAGALUS

- Mexicanus*, A. DC. S.
Near Alton, Miss Holmes : St. Clair county, Brendel.

- Plattensis*, Nutt.,
var. *Tennesseensis*, Gray.
Sandy banks of Rock River, Ogle county, 1858, but not since found, Bebb ; Will county, Vasey.

- Canadensis*, L.
Banks of streams. Common.

- distortus*, T. & G.
Mason county, Mead, Bebb : Menard, Hall.

DESMODIUM

- nudiflorum*, DC.
Woods. Common.

- acuminatum*, DC.
Woods. Common.

- pauciflorum*, DC.
Woods. Near Chicago, Munroe ; Peoria, Brendel ; and southward. Scarce.

- rotundifolium*, DC. S.
Jackson county, French, Vasey ; Union, Forbes.
- canescens*, DC. Frequent.
Damp places.
- cuspidatum*, T. & G. Frequent.
Woods.
A hairy form of this species found in Marion county, Bebb ; Fulton, Wolf.
- lævigatum*, DC. S.
Jackson county, and southward, Vasey.
- viridiflorum*, Beck. S.
Washington county, French ; Wabash, Schneek ; and southward.
- Dillenii*, Darlington.
Peoria county, Brendel ; Kankakee, Hill ; and southward.
- paniculatum*, DC.
Peoria county, Brendel ; and southward.
- Canadense*, DC. Common.
Open woods and prairies.
- Illinoense*, Gray.
"Resembling *D. CANESCENS* in leaves and flowers, but *D. RIGIDUM* in raceme and fruit. Stem 3-5 feet high, with the leaves roughish with fine pubescence, leaflets ovate-oblong or ovate-lanceolate, 2-4 inches long, subcoriaceous, whitish beneath, much reticulated with rather prominent veins and veinlets, lateral nearly equalling the petiole ; persistent stipules and deciduous bracts ovate-lanceolate, taper pointed, striate ; pod slightly stalked, scarcely more than an inch in length, sinuate at the sutures on both sides, more deeply below, joints 3-5, oval, not exceeding 3 lines in length."
Dry prairies and hillsides, from Marion county (Bebb) northward. Frequent.
- sessilifolium*, T. & G. Frequent.
Dry hillsides, &c.
- rigidum*, DC. S.
Dry hillsides, &c., southward, Vasey, Schneek.
- ciliare*, DC. C. & S.
Menard county, Hall ; and southward.
- Marilandicum*, Boott. C. & S.
Menard county, Hall ; and southward.
- LESPEDEZA
- procumbens*, Michx. S.
Cobden, Union county, and southward, Vasey.
- repens*, T. & G. S.
Washington county and southward, Vasey.

- violacea*, Pers. Common.
Dry woods.
The vars. *DIVERGENS*, *SESSILIFLORA* and *ANGUSTIFOLIA* all occur in the State.
- hirta*, Ell.
Washington county, Vasey ; and southward.
- capitata*, Michx. Common.
Dry prairies and barrens.
- var. *angustifolia*, Gray.
Winnebago county, Bebb ; McHenry, Vasey ; Hancock, Mead.
- STYLOSANTHES
- elation*, Swartz. S.
Jackson and Union counties.
- VICIA
- Caroliniana*, Walt. N.
Common in northern counties.
- Americana*, Muhl. C. & N.
Peoria county, Brendel ; and common north.
- LATHYRUS
- maritimus*, Bigel. N-E.
Sands of lake shore about Chicago, Babeock.
- venosus*, Muhl. N.
Kankakee county, Hill ; and northward.
- ochroleucus*, Hook. N.
About Chicago, Munroe, Babeock ; McHenry, Vasey.
- palustris*, L. Frequent.
Low grounds.
- var. *myrtifolius*, Gray. N.
Kankakee county, Hill ; near Chicago, Babeock.
- APIOS
- tuberosa*, Mœnch. Frequent.
Woods along streams.
Very rare, y found in fruit in Illinois.
- PHASEOLUS
- perennis*, Walt. S.
Madison Co., Miss Holmes ; Wabash, Schneek ; Union and Franklin, Forbes.
- diversifolius*, Pers. Common.
Sandy river banks.
- helvolus*, L. C. & S.
Peoria county, Brendel ; and southward.
- pauciflorus*, Benth.
Banks of Rock River in Ogle county, Bebb ; and southward.

CLITORIA

Mariana, L. S.

Frequent in thickets in Jackson county. Forbes.

AMPHICARPÆA

monoica, Nutt.

Rich woods. Common.

GALACTIA

mollis, Michx. S.

Jackson county and southward, Forbes.

BAPTISIA

tinctoria, R. Br.

Northern counties, Miss Holmes.

leucantha, T. & G.

Low prairies. Common.

leucophæa, Nutt.

Sandy prairies and barrens. Common.

CERCIS

Canadensis, L. C. & S.

River banks. Henderson, Peoria and Kankakee counties, and southward. Common.

CASSIA

Marilandica, L.

River banks. Frequent.

obtusifolia, L. S.

Banks of the Ohio, Vasey, Brendel.

Chamæcrista, L.

Sandy river banks, &c. Common.

nictitans, L. C. & S.

Sandy barrens. Henderson county; and southward.

GYMNOCLADUS

Canadensis, Lam.

Near Chicago, Babcock; Peoria county, Brendel; Henderson; and southward. Frequent.

GLEDITSCHIA

triacanthos, L. C. & S.

River banks, from Kankakee, Peoria and Henderson counties southward. Common.

monosperma, Walt. S.

Jackson county, Forbes; Union, near Jonesboro, Vasey; Pulaski, Brendel. Rare.

DESMANTHUS

brachylobus, Benth. C. & S.

Kankakee county, Hill; Peoria, Brendel. Munroe; and southward.

ROSACEÆ.

PRUNUS

Americana, Marshall.

Low grounds. Common.

Chicasa, Michx. S.

West of Jonesboro, Union county, Vasey.

pumila, L. N.

Sandstone cliffs, Ogle county. Bebb; Kankakee, Hill; and northward.

Pennsylvanica, L. N.

Winnebago county, Bebb; McHenry, Vasey; Lake shore near Chicago, H. A. Warne.

Virginiana, L.

Banks of streams. Common.

serotina, Ehrh.

Rich woods. Common.

SPIRÆA

opulifolia, L.

Rocky banks of streams. Frequent.

salicifolia, Raf.

Low grounds. Frequent.

tomentosa, L.

Kankakee county, Hill; near Chicago, Babcock.

lobata, Murr. C.

Peoria county, Brendel; Fulton, Wolf; Tazewell, Munroe; Mason, Hall; Cass, Mead. I do not hear of it north or south.

Aruncus, L. C. & S.

Woods. Peoria, Brendel; and southward.

GILLENIA

stipulacea, Nutt. C. & S.

Schuyler county, Mead; Sangamon, Bebb; and southward.

POTERIUM

Canadense, Gray.

Near Beardstown, Cass county, Mead.

AGRIMONIA

Eupatoria, L.

Open woods. Common.

parviflora, Ait.

With the last. Frequent.

GEUM

album, Gmelin.

Woods. Common.

Virginianum, L.

Woods.

Infrequent.

macrophyllum, Willd.

N.

McHenry county, Vasey.

strictum, Ait.

C. & N.

Wet meadows. Fulton county, Wolf; Kankakee, Hill; and northward.

vernum, T. & G.

C. & S.

Hancock county, Mead; and southward.

Rare.

rivale, L.

N.

Near Elgin, Kane county, Vasey; McHenry, Miss Holmes.

Rare.

triflorum, Pursh.

N.

McHenry county, Vasey; Winnebago, Bebb.

"One of the few rare plants of our northern prairies which seems thus far to hold its place—growing as it does on sterile knolls too stony to plow and too poor to give blue grass a chance for enervation; either cattle leave it alone or else the leaves lie so flat on the ground as to escape pasturage."—Bebb.

POTENTILLA

Norvegica, L.

Low grounds.

Common.

paradoxa, Nutt.

S-W.

St. Clair county, Brendel.

Canadensis, L.

Dry hillsides, &c.

Common.

arguta, Pursh.

C. & N.

Prairies. Menard county, Hall; and northward.

Anserina, L.

N.

Common in damp sandy soil along lake shore about Chicago.

fruticosa, L.

N.

Low grounds about Chicago. Babcock, and Kane county, Miss Holmes.

palustris, Scop.

N.

McHenry county, Vasey.

FRAGARIA

Virginiana, Ehrh.

Hillsides and barrens.

Common.

var. *Illinoensis*, Gray.

With the typical form; scarce, or not distinguished from it by most persons.

vesca, L.

Shady hillsides, &c.

Apparently scarce.

RUBUS

triflorus, Richard.

N.

Kane county, Miss Holmes; Cook county, near Evanston, Vasey, Calumet, Babcock.

strigosus, Michx.

Ogle county, Bebb; McHenry, Vasey; Chicago, Babcock; also in Washington county, French.

occidentalis, L.

Open woods.

Common.

villosus, Ait.

With the last.

Common.

Canadensis, L.

Near Chicago, Babcock. Menard county, Hall; and southward. Probably rare northward.

hispidus, L.

N.

Kankakee county, Hill; Chicago, Babcock.

ROSA

setigera, Michx.

C. & S.

Peoria county, Brendel; and southward.

Carolina, L.

Low grounds, throughout.

Frequent.

lucida, Ehrh.

Hillsides, &c.

Common.

blanda, Ait.

With the last.

Common.

CRATÆGUS

cordata, Ait.

Wabash county, Schneck.

coccinea, L.

Woods.

Common.

tomentosa, L.var. *pyrifolia*, Gray.

Kankakee county, Hill.

var. *punctata*, Gray.

Frequent.

var. *mollis*, Gray.

Frequent.

Crus-galli, L.

Woods.

Common.

PYRUS

coronaria, L.

Banks of streams.

Common.

angustifolia, Ait.

S.

Washington county, French; Wabash, Schneck.

arbutifolia, L.

N.

Kankakee county, Hill; Ogle, Bebb.

AMELANCHIER

Canadensis, T. & G. :

var. Botryapium, Gray.

Rocky banks of streams. Frequent.

var. oblongifolia, Gray.

Cliffs near Oregon, Ogle county, Bebb ; Makanda, Jackson county, French.

var. rotundifolia, Gray.

Near Chicago, Babcock ; Fountain Bluff, Jackson county, French.

var. alnifolia, Gray.

Ogle county, Bebb.

SAXIFRAGACEÆ.

RIBES

Cynosbati, L. C. & N.

Rocky banks of streams. Henderson county ; Kankakee, Hill ; and northward.

hirtellum, Michx. N.

Evanston, Cook county, Vasey.

rotundifolium, Michx. C. & N.

Open woods. Henderson, Peoria and Kankakee counties ; and northward.

floridum, L.

Rich woods along streams. Frequent.
I do not hear of it south of Menard county.

HYDRANGEA

arborescens, L. C. & S.

Peoria county, Brendel, Munroe ; and southward.

PARNASSIA

Caroliniana, Michx.

Marion county, Bebb ; and northward. Frequent.

SAXIFRAGA

Pennsylvanica, L. C. & N.

Bogs. Peoria county, Brendel ; and northward. Common.

Forbesii, Vasey. S.

Damp hillside 1 mile north of Makanda, Jackson county, east side of railroad—May, June—Forbes ; Cobden, Union county, Vasey.

HEUCHERA

Rugellii, Shuttlew. S.

Common on Union county bluffs, July and Aug., Forbes ; Jackson county, French.

Americana, L.

Marion county, Bebb ; and southward.

hispidia, Pursh.

Hillsides. Marion county, Bebb ; and northward. Frequent.

MITELLA

diphylla, L.

Damp hillsides. Scarce.

CRASSULACEÆ.

PENTHORUM

sedoides, L.

Wet places. Common.

SEDUM

pulchellum, Michx. S.

Jackson and Union counties, Vasey, French.

ternatum, Michx.

Rocky woods. Kankakee county, Hill ; Wabash, Schneek. Rare.

HAMAMELACEÆ.

HAMAMELIS

Virginica, L.

Damp woods. White county, Schneek ; Peoria, Brendel ; and frequent northward.

LIQUIDAMBAR

Styraciflua, L. S.

Wabash and Jackson counties, and southward.

HALORAGACEÆ.

MYRIOPHYLLUM

spicatum, L.

McHenry county, in Fox river, Vasey.

verticillatum, L. C. & N.

Menard county, Hall ; McHenry, Vasey.

heterophyllum, Michx.

McHenry county, Vasey ; Hancock, Mead. Rare.

scabratum, Michx. C. & S.

Henderson county, frequent ; Menard, Hall ; Franklin, Forbes. Rare.

ambiguum, Nutt.,
var. capillaceum, Gray. S.

Wabash county, Schneek.

PROSERPINACA

palustris, L.

Swamps. Scarce.

HIPPIURIS

vulgaris, L.Wabash county, Schneck ; McHenry, Vasey.
Very rare.

ONAGRACEÆ.

CIRCEA

Lutetiana, L.

Rich woods. Common.

GAURA

biennis, L.

Dry places. Common.

EPILOBIUM

angustifolium, L. N.

Low places. Winnebago and McHenry counties.

palustre, L.,var. *lineare*, Gray. C. & N.

Low grounds. Menard county, Hall ; and northward. Frequent.

molle, Torr.

C. & N.

With the last.

coloratum, Muhl.

Low grounds. Common.

CENOTHERA

biennis, L.

Dry copses, fields, &c. Common.

Varieties *MURICATA*, *GRANDIFLORA*, *PARVIFLORA* and *CRUCIATA* are found in the State.*rhombipetala*, Nutt.

Sandy prairies and barrens. Menard county, Hall ; frequent in Henderson ; near Chicago, Babcock, Vasey ; Ogle county, Bebb. Scarce.

fruticosa, L.

Low prairies, &c. Frequent.

linearis, Michx.

S.

Carbondale, Jackson county, Forbes.

Missouriensis, Sims.

S.

Near Nashville, Washington county, Vasey.

JUSSIEA

repens, L.

S.

Jonesboro, Union county, Miss Holmes ; Mound City, Vasey.

decurrens, DC.

S.

Perry and Union counties, Forbes.

LUDWIGIA

alternifolia, L.

Low grounds. Frequent.

sphaerocarpa, Ell.

Chicago, Dr. Scammon, in herb. M. S. Bebb ; Menard county, Hall ; Union, Forbes ; Mound City, Miss Holmes. Rare.

polycarpa, Short & Peter.

Wet places. Common.

cylindrica, Ell.

S.

Mound City, Vasey.

palustris, Ell.

Ponds and ditches. Common.

MELASTOMACEÆ.

RHEXIA

Virginica, L.

Lee county, Vasey ; Kankakee, Hill ; Mason, Bebb ; Cass, Mead ; and probably southward. Rare.

LYTHRACEÆ.

AMMANNIA

humilis, Michx.

Margins of ponds, &c. Scarce.

latifolia, L.

C. & S.

Wet places. Henderson county ; Peoria, Munroe, Brendel ; Kankakee, Hill ; and southward. Frequent.

Nuttallii, Gray.

In ponds, and rooting in their margins as the water evaporates. Henderson county ; Hancock, Mead ; Menard, Hall. Rare.

LYTHRUM

alatum, Pursh.

Wet places. Common.

NESEÆ

verticillata, H. B. K.

Low grounds. Near Chicago, Vasey ; Wabash county, Schneck ; Franklin, Forbes. Rare.

CUPHEA

viscosissima, Jacq.

C. & S.

Dry places. Hancock county. Mead ; Peoria, Brendel ; and southward.

LOASACEÆ.

MENTZELIA

oligosperma, Nutt.

W.

Prairies. Pike county, Mead.

CACTACEÆ.

OPUNTIA

Rafinesquii, Engelm.

Sandy prairies and barrens. Frequent.

PASSIFLORACEÆ.

PASSIFLORA

lutea, L.

S.

Damp woods. Madison and St. Clair counties,
Miss Holmes, Brendel; Marion, Bebb; Wabash,
Schneck; and southward. Frequent.

CUCURBITACEÆ.

SICYOS

angulatus, L.

River banks. Common.

ECHINOCYSTIS

lobata, T. & G.

Banks of streams. Common.

UMBELLIFERÆ.

SANICULA

Canadensis, L.

Open woods. Common.

Marilandica, L.

With the last. Common.

ERYNGIUM

yuccæfolium, Michx.

Prairies. Common.

DAUCUS

Carota, L.Sparingly escaped from gardens to roadsides and
waste places.

POLYTXENIA

Nuttallii, DC.

Prairies and barrens. Scarce.

HERACLEUM

lanatum, Michx.

Damp places. Common.

PASTINACA

sativa, L.

Roadsides and waste places. Common.

ARCHEMORA

rigida, DC.Also the var. *AMBIGUA*, Gray.
Wet prairies, ravines, &c. Roots tuberiferous.
Scarce.

ARCHANGELICA

hirsuta, T. & G.

S.

Washington Co., and southward. Vasey, Forbes.
Rare.*atropurpurea*, Hoffm.

C. & N.

Low grounds, Fulton, Wolf; Kankakee, Hill;
and northward.

CONIOSELINUM

Canadense, T. & G.

N.

Elgin, Kane county, Vasey.

THASPIUM

barbinode, Nutt.

Rich woods. Scarce.

aureum, Nutt.

River banks, &c. Common.

var. *apterum*, Gray.

Winnebago and Marion counties, Bebb.

trifoliatum, Gray.

Open woods, &c. Scarce.

var. *atropurpureum*, T. & G.

Menard county, Hall; and southward.

var. *apterum*, Gray.

Winnebago and Marion counties, Bebb.

ZIZIA

integerrima, DC.

Dry hillsides. Frequent.

DISCOPLEURA

capillacea, DC.

S.

Mound City, Vasey.

var? *costata*, DC.

S.

St. Clair county, Brendel; Mound City, Vasey.

Nuttallii, DC.

S.

Jackson and Union counties, Forbes, Wolf.

CICUTA

maculata, L.

Low grounds. Common.

bulbifera, L.

N.

Peoria county, Brendel; Stephenson and Win-
nebago, Miss Holmes; McHenry, Vasey.

SIUM

angustifolium, L.

C. & N.

Fulton county, Wolf; Peoria, (frequent), Bren-
del; Winnebago, (rare), Bebb; McHenry, Vasey."I have found this in northern Illinois invari-
ably associated with *MIMULUS JAMESII*."—Bebb.

lineare, Michx.	
Low grounds.	Common.
CRYPTOTENIA	
Canadensis, DC.	
Woods.	Common.
CHLEROPHYLLUM	
procumbens, Lam.	
Damp woods.	Common.
OSMORRHIZA	
longistylis, DC.	
Rich woods.	Frequent.
brevistylis, DC.	
Rich woods.	Frequent.
CONIUM	
maculatum, L.	
Waste places. Elgin, Kane county, Vasey, and Chicago, Babcock; Wabash, Schneck.	
EULOPHUS	
Americanus, Nutt.	
Moist thickets, throughout.	Scarce.
ERIGENIA	
bulbosa, Nutt.	C. & S.
Hancock county, Mead; and southward.	
ARALIACEÆ.	
ARALIA	
spinosa, L.	S.
Jackson and Union counties, and southward.	
racemosa, L.	
Rich woods.	Common.
nudicaulis, L.	
Rich woods.	Frequent.
quinquefolia, Gray.	
Rich woods.	Infrequent.
CORNACEÆ.	
CORNUS	
Canadensis, L.	N.
Near Chicago, Munroe; Winnebago county, Miss Holmes.	Rare.
florida, L.	C. & S.
Woods. Schuyler county, Mead; and southward.	Frequent.
sericea, L.	
Wet places.	Common.

circinata, L'Her.	
Near Elgin, Kane county, Vasey; once found near Peoria, Brendel.	Rare.
stolonifera, Michx.	C. & N.
Low grounds. Menard county, Hall; and northward.	Common.
asperifolia, Michx.	C. & S.
Peoria and Henderson counties, and southward. In Henderson county it grows mostly in river bottoms—rarely in dry places.	Common.
paniculata, L'Her.	
Woods along streams.	Common.
alternifolia, L.	
Open woods, especially along streams. Apparently rare southward.	
NYSSA	
multiflora, Wang.	S.
Washington county, French; Wabash, Schneck; and southward.	

CAPRIFOLIACEÆ.

LINNÆA	
borealis, Gronov.	N.
North of Chicago, Vasey.	
SYMPHORICARPUS	
occidentalis, R. Br.	
Wabash county, Schneck; Washington, French; McHenry, Vasey.	Rare.
LONICERA	
flava, Sims.	C. & N.
Rocky banks of streams. Menard county, Hall; and northward.	Frequent.
parviflora, Lam.	C. & N.
With the last. Hancock county, Mead; Peoria, Brendel; and probably northward.	
var. Douglasii, Gray.	N.
Deer Park, La Salle county, Forbes; and northward.	Frequent.
DIERVILLA	
trifida, Mœnch.	N.
Cook county—near Chicago, Babcock, and Evanston, Vasey.	Rare.
TRIOSTEUM	
perfoliatum, L.	
Rich woods.	Frequent.
angustifolium, L.	S.
St. Clair county, Brendel; Union, French.	

SAMBUCUS

Canadensis, L.

River banks, borders of woods, &c. Frequent.

VIBURNUM

Lentago, L.

Banks of streams, &c. Frequent.

prunifolium, L.

Dry copses. Scarce northward.

dentatum, L.

River banks. Scarce.

pubescens, Pursh.

N.

Winnebago county, Bebb; McHenry, Vasey.

acerifolium, L.

N.

Near Chicago, Babcock; Winnebago Co., Bebb; McHenry, Vasey.

Opulus, L.

N.

Near Chicago, Munroe, Babcock.

RUBIACEÆ.

GALIUM

Aparine, L.

Moist thickets. Common, especially northward.

asprellum, Michx.

Moist thickets. Washington county, French; Wabash, Schneck; McHenry, Vasey. Scarce.

concinnum, T. & G.

Dry prairies and hillsides, also in rich woods. Common.

trifidum, L.

Wet places. Common.

triflorum, Michx.

Rich woods. Common.

pilosum, Ait.

C. & S.

Dry copses. Cass county, Mead; and southward.

circæzans, Michx.

Rich woods. Common.

lanceolatum, Torr.

Wabash county, Schneck.

boreale, L.

N.

Near Chicago, Babcock; Winnebago county, Bebb; McHenry, Vasey.

SPERMACOCE

glabra, Michx.

C. & S.

River banks. Peoria county, Brendel; Fulton, Wolf; and southward.

DIODIA

Virginica, L.

S.

River banks. Marion county, Vasey; and southward.

teres, Walt.

C. & S.

Dry, sandy places. Hancock county, Mead; and southward.

CEPHALANTHUS

occidentalis, L.

Wet places. Common.

MITCHELLA

repens, L.

Damp hillsides at Makanda, Jackson county, Forbes.

HOUSTONIA

purpurea, L.

C. & S.

Woods. Menard county, Hall; and southward.

var. ciliolata, Gray.

Marion county, Brendel.

angustifolia, Michx.

S.

Jackson and Union counties, Vasey, Forbes.

minima, Beck.

W.

Dry hillsides, western Illinois, Gray's Manual.

cærulea, L.

Near Chicago, Babcock; St. Clair county, Brendel; Washington and southward, Vasey.

VALERIANACEÆ.

VALERIANA

pauciflora, Michx.

S.

Woods. Wabash county, Schneck; Jackson, Vasey; and southward.

edulis, Nutt.

N.

Abundant in one locality south-west of Hyde Park, Cook county, Babcock; Winnebago, Bebb; McHenry, Vasey.

FEDIA

radiata, Michx.

Low grounds. Frequent.

umbilicata, Sulliv.

Banks of Kankakee river, Kankakee county, Hill.

DIPSACEÆ.

DIPSACUS

sylvestris, Mill.

Waste places. Wabash county, Schneck; Frequent in McHenry, Vasey.

COMPOSITÆ.

VERNONIA

Noveboracensis, Willd.

River banks. Hancock county, Mead.

fasciculata, Michx.

River banks.

Common.

ELEPHANTOPUS

Carolinianus, Willd.

S.

St. Clair county, Brendel; Marion, Bebb; and southward.

Frequent.

LIATRIS

squarrosa, Willd.

Cook county, Munroe, Hill; and southward.

Frequent.

cylindracea, Michx.

Prairies.

Common.

scariosa, Willd.

Prairies and barrens.

Common.

spicata, Willd.

Moist prairies. McHenry county, Vasey; Cook, Babcock, Hill.

Rare.

pycnostachya, Michx.

Prairies.

Common.

KUHNIA

eupatorioides, L.

Prairies and barrens.

Common.

EUPATORIUM

purpureum, L.

Low grounds.

Common.

altissimum, L.

Dry hillsides, &c.

Common.

sessilifolium, L.

C. & S.

Peoria county, Brendel; Hancock, Mead; and southward.

perfoliatum, L.

Wet places.

Common.

serotinum, Michx.

River banks, throughout.

Common.

ageratoides, L.

Rich woods.

Common.

aromaticum, L.

S.

Jackson county, French.

MIKANTIA

scandens, L.

S.

Wabash county, Schneek.

CONOCLINIUM

cælestinum, DC.

C. & S.

Mason county, Mead; Menard, Hall; and southward.

Frequent.

ASTER

corymbosus, Ait.

Woods. Menard county, Hall; Hancock, Mead; Peoria, Brendel.

Scarce.

macrophyllus, L.

N.

Near Chicago, Babcock, Munroe.

sericeus, Vent.

Prairies and barrens.

Common.

patens, Ait.

S.

Union and Wabash counties; and southward.

lævis, L. var. *lævigatus*, Gray.

Dry open woods.

Common northward.

var. *cyaneus*, Gray.

With the last.

turbinellus, Lindl.

C. & S.

Prairies and barrens. Hancock county, Mead; Menard, Hall; St. Clair, Brendel; Union, French.

Rare.

azureus, Lindl.

Prairies and copses.

Frequent.

Shortii, Boott.

Rich woods. Winnebago county, Bebb; Hancock, Mead; Peoria, Brendel; and southward, Vasey.

Scarce.

undulatus, L.

Dry copses.

Common.

Drummondii, Lindl.Wooded hillsides, &c., throughout. Runs into *A. UNDULATUS*.

Frequent.

cordifolius, L.

Woods.

Frequent.

sagittifolius, Willd.

Dry hillsides, &c.

Common.

ericoides, L.

Dry open places.

Frequent.

var. *villosus*, Ait.

With the typical form.

Frequent.

multiflorus, Ait.

Dry prairies and barrens.

Common.

dumosus, L.

Thickets.

Frequent.

Tradescanti, L.

Damp places. Frequent.

miser, L.

Woods and open damp places. Common.

simplex, Willd.

Woods, and open places in low grounds. Common.

tenuifolius, L.

Low grounds. Frequent.

carneus, Nees.

Damp places. Frequent.

æstivus, Ait.

McHenry county, Vasey : Peoria, Brendel.

longifolius, Lam.

Moist places. Near Chicago, Babcock ; Kankakee county, Hill ; Peoria, Brendel.

puniceus, L.

Low thickets, &c. Scarce.

var. *vineus*, Gray.

Winnebago county, Bebb : also in Henderson.

prenanthoides, Muhl.

Fulton county, Brendel, Wolf.

oblongifolius, Nutt.

River banks. Frequent.

amethystinus, Nutt.

Peoria county, Brendel ; Fulton, Wolf ; Menard, Hall. Rare.

Novæ-Angliæ, L.

Moist ravines, &c. Common.

anomalus, Engelm.

W.

Rocky hillsides. Peoria county, Brendel ; Fulton, Wolf ; Hancock, Mead : St. Clair, Engelmann. Scarce.

acuminatus, Michx.

N.

McHenry county, Vasey.

ptarmicoides, T. & G.

C. & N.

Prairies. Menard county, Hall : and northward.

ERIGERON

Canadense, L.

Waste places. Common.

divaricatum, Michx.

Dry roadsides, prairies, &c., throughout the State. Common.

bellidifolium, Muhl.

Moist hillsides. Common.

Philadelphicum, L.

Moist places. Common.

annuum, Pers.

Low grounds. Common.

strigosum, Muhl.

Prairies and fields. Common.

DIPLOPAPPUS

linariifolius, Hook.

Dry prairies and barrens. Common.

umbellatus, T. & G.

C. & N.

Moist thickets. Menard county, Hall ; and northward.

BOLTONIA

glastifolia, L'Her.

Low grounds. Common.

var. ? *decurrens*, T. & G.

Leaves elongated lanceolate, rather thin, decurrent on the stem ! the broad decurrent portions usually terminated by short and triangular divaricate lobes, thus appearing sagittate. * * Perhaps a distinct species.—Flora N. A., II, 188.

Fulton county, Wolf.

diffusa, L'Her.

S.

Washington county, Vasey ; St. Clair, Brendel ; and southward.

SOLIDAGO

bicolor, L.

McHenry county, Vasey ; Union, Forbes.

latifolia, L.

C. & N.

Rich woods. Menard county, Hall ; and northward. Frequent.

cæsia, L.

Rich woods. Scarce.

stricta, Ait.

N.

Wet places. Winnebago county, Bebb.

speciosa, Nutt.

Prairies and barrens. Common.

petiolaris, Ait.

Rocky bluffs opposite St. Louis, Engelmann.

Virga-aurea, L.var. *humilis*, Gray. N.

Near Chicago, Babcock.

rigida, L.

Dry prairies and barrens. Common.

Ohioensis, Riddell.

N.

Moist prairies. Peoria county, Brendel ; and northward.

Riddellii, Frank.		
Low prairies.	Frequent.	
neglecta, T. & G.	N.	
Wet places. Peoria county, Brendel; near Chicago, Babcock; McHenry county, Vasey.		
patula, Muhl.		
Swamps.	Searce.	
arguta, Ait.		
Prairies. Near Chicago, Babcock; Peoria county, Brendel; Washington, French. Searce.		
Muhlenbergii, T. & G.		
Near Chicago, Babcock.		
altissima, L.		
Hancock county, Mead; Fulton, Wolf; southern Illinois, Vasey.		
ulmifolia, Muhl.		
Low copses.	Common.	
Drummondii, T. & G.	S.	
Rocky hillsides opposite St. Louis, Engelmann.		
odora, Ait.	S.	
Wabash county, Schneck.		
memoralis, Ait.		
Prairies and barrens.	Common.	
radula, Nutt.	W.	
With the last species. Henderson county; Fulton, Wolf; Menard, Hall.		
Missouriensis, Nutt.		
Prairies.	Common.	
Canadensis, L.		
Borders of woods, fields, &c. Common.		
serotina, Ait.		
Woods, and open places in low grounds. Common.		
gigantea, Ait.		
With the last.	Common.	
lanceolata, L.		
Low grounds.	Common.	
tenuifolia, Pursh.		
Dry places, throughout.	Frequent.	
CHRYSOPTERIS		
villosa, Nutt.		
Prairies. Near Dixon, Vasey; Peoria county, Brendel; Mason, Mead, Bebb.		
INULA		
Helenium, L.		
Sparingly escaped from gardens to roadsides and waste places.		
PLUCHEA		
fœtida, DC.	S.	
River banks. Wabash and Jackson counties, and southward. Frequent.		
POLYMNIA		
Canadensis, L.		
Damp hillsides in woods.	Searce.	
var. discoidea, Gray.		
Carroll county, Henry Shimer, in Gray's Manual.		
Uvedalia, L.	S.	
St. Clair county, Brendel; Wabash, Schneck; and southward.		
CHRYSOPTERIS		
Virginianum, L.		
Credited to Illinois in Gray's Manual.		
SILPHIUM		
laciniatum, L.		
Prairies.	Common.	
terebinthaceum, L.		
Prairies.	Common.	
trifoliatum, L.		
Near Thornton, Cook county, Hill.		
integrifolium, Michx.		
Prairies.	Common.	
Var LEVE at Normal, McLean county, Hill.		
perfoliatum, L.		
Rich soil along streams.	Common.	
PARTHENIUM		
integrifolium, L.		
Prairies.	Common.	
IVA		
ciliata, Willd.		
Union county, Forbes.		
AMBROSIA		
bidentata, Michx.	C. & S.	
Prairies. Peoria county, Brendel; and southward. Frequent.		
trifida, L.		
River banks.	Common.	
artemisifolia, L.		
Fields, waste places, especially in low grounds. Common.		
psilostachya, DC.		
Dry prairies and barrens.	Common.	

XANTHIUM

strumarium, L.

Banks of streams. Common.

var. *echinatum*, Gray.

Near Chicago, Babcock, Vasey : Warsaw, Hancock county, Mead.

spinosum, L.

Chicago, Cairo and Mound City, Vasey.

ECLIPTA

procumbens, Michx. C. & S.

River banks, from Kankakee, Peoria and Henderson counties southward.

HELIOPSIS

lævis, Pers.Dry woods, &c. Common.
Also the var. *SCABRA*.

ECHINACEA

purpurea, Mœnch.

Prairies. Common.

angustifolia, DC.

Prairies. Common.

RUDBECKIA

laciniata, L.

Woods along streams. Frequent.

subtomentosa, Pursh.

Low prairies. Common.

triloba, L. C. & S.

Dry woods. Henderson, Peoria and Kankakee counties, and southward.

speciosa, Wenderoth. C. & S.

Menard county, Hall ; Wabash, Schneck.

hirta, L.Dry prairies and woods. Common.
Mr. Bebb has seen this with a yellow disk.

LEPACHYS

pinnata, T. & G.

Dry prairies and woods. Common.

HELIANTHUS

annuus, L.

Persistent about gardens.

atrorubens, L.

Washington Co., French : and probably southward.

rigidus, Desf.

Dry prairies. Common.

lætiflorus, Pers.

Dry prairies, throughout. Infrequent.

occidentalis, Riddell.

Dry prairies and barrens. Common.

mollis, Lam.

With the last. Rare northward.

microcephalus, T. & G. S.

Wabash county, Schneck ; Franklin, Forbes : and southward.

giganteus, L.

Low grounds. Near Chicago, Babcock ; Peoria county, Brendel ; Wabash, Schneck.

grosse-serratus, Martens.

Prairies. Common.

strumosus, L.

Woods and low grounds. Frequent.

divaricatus, L.

Dry woods, &c. Near Chicago, Babcock ; Hancock county, Mead ; Wabash, Schneck.

hirsutus, Raf.

Dry prairies, &c. Scarce.

trachelifolius, Willd.

Copses. Near Chicago, Babcock ; Peoria county, Brendel ; Wabash, Schneck.

decapetalus, L.

Moist copses. Frequent.

doronicoides, Lam.

Banks of streams. Common.

tuberosus, L.

Sparingly escaped from gardens.

ACTINOMERIS

squarrosa, Nutt. C. & S.

Peoria county, Brendel ; Kankakee, Hill ; and southward.

helianthoides, Nutt.

Near Chicago, Babcock ; Peoria, Brendel ; and southward.

COREOPSIS

auriculata, L. S.

Rich woods. Washington county, Vasey ; and southward.

lanceolata, L.

Rich soil. Frequent.

palmata, Nutt.

Dry prairies and barrens. Common.

- tripteris*, L.
Open, dry woods. Common.
- aristosa*, Michx.
Low grounds. Frequent.
- var. *mutica*, Gray.
With the typical form. Scarce.
- trichosperma*, Michx.
Low grounds. McHenry county, Vasey; near Chicago, Babcock; Fulton county, Wolf. Scarce.
- discoidea*, T. & G. C. & S.
Frequent in Mississippi bottoms in Henderson county; Pulaski, Vasey. Rare.
- BIDENS**
- frondosa*, L.
Low grounds. Common.
- connata*, Muhl.
Low grounds. Common.
Var. *comosa* is common along the Mississippi about Oquawka.
- cernua*, L. N.
Wet places. Peoria and Henderson counties, and northward.
- chrysanthemoides*, Michx.
Banks of streams. Common.
- Beckii*, Torr.
Illinois—Gray's Manual.
- bipinnata*, L. C. & S.
In dry soil. Menard county, Hall; and southward.
- VERBESINA**
- Siegesbeckia*, Michx. S.
Banks of the Ohio, Vasey.
- Virginica*, L.
Illinois—Gray's Manual.
- DYSODIA**
- chrysanthemoides*, Lag.
Roadsides and waste places. Common.
- HYMENOPAPPUS**
- scabiosæus*, L'Her.
Barrens of Mason county, Mead, Hall.
- ACTINELLA**
- scaposa*, Nutt., var. *glabra*, Gray.
On an Indian mound at Joliet, Will county, Dr. Scammon, W. Boott, in Gray's Manual.
- HELENIUM**
- autumnale*, L.
Banks of streams. Common.
- LEPTOPODA**
- brachypoda*, T. & G. C. & S.
Barrens of Hancock county, Mead; and southward.
- MARUTA**
- Cotula*, DC.
Roadsides, &c. Common.
- ACHILLEA**
- Millefolium*, L.
Prairies and barrens. Common.
- LEUCANTHEMUM**
- vulgare*, Lam.
Chicago, Babcock; Kankakee, Hill; once found at Peoria, Brendel; Cass county, Mead. Rare.
- MATRICARIA**
- discoidea*, DC. W.
Opposite St. Louis, Engelmann.
- TANACETUM**
- vulgare*, L.
Sparingly escaped from gardens to roadsides.
- ARTEMISIA**
- dracunculoides*, Pursh.
Near Dixon, Lee county, Vasey.
- caudata*, Michx.
Sandy prairies and barrens. Common.
- Ludoviciana*, Nutt. N.
Henderson county; Peoria, Brendel; and northward.
- serrata*, Nutt. N.
"Stem tall and herbaceous, leaves lanceolate, acuminate at either extremity, margin serrate, upper side smooth, under tomentose and white; fls. paniculate, partly glomerate, erect; calyx small cylindric-ovate, and nearly smooth. Stem 5 or 6 feet high; fls. very small; leaves 6 to 8 inches long and an inch wide, sharply but not very regularly serrate. Hab.: Near the Prairie du Chien, on the banks of the Mississippi, also on the banks of the Missouri, in open alluvial soil."—NUTT. GENERA, II. 142.
Winnebago county, Bebb; McHenry, Vasey.
- biennis*, Willd.
Low grounds, especially by roadsides. Common.
- GNAPHALIUM**
- polycephalum*, Michx.
Dry woods, &c. Common.
- purpureum*, L.
McHenry county, Vasey; Fulton, Wolf; Peoria, (only once found), Brendel; Wabash, Schneck.

ANTENNARIA

margaritacea, R. Br.

Not rare in Wabash county, Schneek.

plantaginifolia, Hook.

Dry open places. Common.

ERECHTHITES

hieracifolia, Raf.

Woods. Common.

CACALIA

suaveolens, L.

Rich woods. McHenry county, Vasey; Peoria and Fulton, Brendel, Wolf; Hancock, Mead; Wabash, Schneek. Scarce.

reniformis, Muhl. C. & S.

Rich woods. Peoria county, Brendel; and southward. Scarce.

atriplicifolia, L.

Rich woods. Frequent.

tuberosa, Nutt.

Prairies. Frequent.

SENECIO

lobatus, Pers. S.

Jackson county, French.

aureus, L.

Vars. BALSAMITE and OBOVATUS. Common.

CIRSIUM

lanceolatum, Scop.

Roadsides. Common.

Pitcheri, T. & G. N-E.

Lake shore about Chicago, Babcock, Vasey.

discolor, Spreng.

Open woods, &c. Common.

altissimum, Spreng.

With the last species. Intermediate forms occur, probably hybrids—Bebb.

Virginianum, Michx.
var. *filipendulum*, Gray. S.

Jackson and Union counties, French, Vasey.

muticum, Michx.

Woods in low grounds. Frequent.

pumilum, Spreng.

Dry woods and fields. Scarce.

arvense, Scop.

Along railroads about Chicago, Babcock, Vasey; in one locality near Peoria, Brendel; Fulton county, Wolf. Fortunately rare as yet. Since

the enactment of the Canada Thistle Law most of the other species have suffered at the hands of the Commissioners, especially *LANCEOLATUM*.

LAPPA

officinalis, All., var. *major*.

Roadsides and waste places. Common.

KRIGIA

Virginica, Willd.

Fulton county, Wolf; Mason, Brendel; Menard, Hall; and probably southward.

CYNTHIA

Virginica, Don.

Prairies. Frequent.

Dandelion, DC. S.

Washington county, Vasey; Wabash, Schneek; and southward.

TROXIMON

cuspidatum, Pursh. C. & N.

Prairies. Menard county, Hall; and northward. Now extinct in many localities where it was once found. Scarce.

HIERACIUM

Canadense, Michx. N.

Near Chicago, Babcock, Munroe; Winnebago county, Bebb; McHenry, Vasey.

scabrum, Michx.

Dry open woods. Scarce.

longipilum, Torr.

Prairies. Scarce.

Gronovii, L.

Dry woods. Scarce.

NABALUS

albus, Hook.

Rich woods. Frequent.

altissimus, Hook.

Rich woods. Boone county, French: not rare in Wabash, Schneek. Rare.

racemosus, Hook. C. & N.

Menard county, Hall; and northward. Frequent.

asper, T. & G.

Prairies. Frequent.

crepidineus, DC. C. & S.

Rich woods along streams. Henderson county; Peoria and Fulton, Brendel, Wolf; Hancock, Mead; Menard, Hall; and probably southward.

TARAXACUM

Dens-leonis, Desf.

Fields, roadsides, &c.

Common.

LACTUCA

Canadensis, L.

Rich soil.

Common.

var. *integrifolia*, T. & G.

Dry open woods.

Frequent.

var. *sanguinea*, T. & G.Peoria and Fulton counties, Brendel, Wolf;
Wabash, Schneck.

MULGEDIUM

acuminatum, DC.

C. & S.

Peoria county, Brendel: and southward.

Scarce.

Floridanum, DC.

Rich soil.

Frequent.

lencophæum, DC.Low grounds. Winnebago county, Bebb; near
Chicago, Munroe; Wabash county, Schneck.

SONCHUS

oleraceus, L.

Waste places.

Frequent.

asper, Vill.

Waste places.

Frequent.

LOBELIACEÆ.

LOBELIA

cardinalis, L.

River banks.

Common.

syphilitica, L.

Low grounds.

Common.

puberula, Michx.

S.

Jackson county, Forbes.

leptostachys, A. DC.

C. & S.

Peoria and Kankakee counties, and southward.

inflata, L.

Dry or damp woods and open places.

spicata, Lam.

Prairies.

Common.

Kalmii, L.

N.

Peoria county, Brendel; Chicago, Babcock.

CAMPANULACEÆ.

CAMPANULA

rotundifolia, L.

Jackson county, French, and not rare north.

aparinoides, Pursh.

Wet meadows.

Common.

divaricata, Michx.

S.

White county, rare, Schneck.

Americana, L.

Rich woods.

Common.

SPECULARIA

perfoliata, A. DC.

Dry open places.

Common.

ERICACEÆ.

GAYLUSSACIA

resinosa, T. & G.Ogle county, Bebb; Kankakee, Hill; Chicago,
Babcock; also in Union county, Wolf.

VACCINIUM

macrocarpon, Ait.

N.

Swamps. Thornton, Cook county, Hill; Mc-
Henry, Vasey.*arboreum*, Marshall.

S.

Jackson and Union counties, Vasey.

Pennsylvanicum, Lam.

N.

Kankakee county, Hill.

Canadense, Kalm.

N.

Near Dixon, Vasey; Thornton, Cook co., Hill.

vacillans, Solander.Dry woods. Near Thornton, Hill; Peoria county,
Brendel; Jackson and Union, French, Forbes.*corymbosum*, L.

Winnebago county, Bebb.

var. *atrococcum*, Gray.

Near Dixon, Lee county, Vasey.

ARCTOSTAPHYLOS

Uva-ursi, Spreng.

N.

Peoria county, Brendel: near Chicago, Babcock.
Rare.

ANDROMEDA

polifolia, L.

N.

McHenry county, Vasey.

AZALEA

nudiflora, L.

S.

Common in the Pine Hills, in the western part
of Union county; it also occurs along bluffs
bordering a little stream on the road from South
Pass to Anna.—Forbes.

PYROLA

elliptica, Nutt. N.

Rich woods. Near Chicago, Babcock; McHenry, Vasey; and other counties in the northern tier.

chlorantha, Swartz. N.

McHenry county, Vasey.

CHIMAPHILA

umbellata, Nutt.

Jackson county, French; McHenry, Vasey.

MONOTROPA

uniflora, L.

Rich woods. Frequent.

AQUIFOLIACEÆ.

ILEX

decidua, Walt. S.

Low grounds. St. Clair county, Brendel; Wabash, Schneck; and southward.

verticillata, Gray. Scarce.

Low grounds, throughout.

EBENACEÆ.

DIOSPYROS

Virginiana, L.

Peoria county, Brendel; and southward.

SAPOTACEÆ.

BUMELIA

lycioides, Gærtn. S.

Low grounds. Union county, Wolf; and southward.

lanuginosa, Pers. S.

"Opposite St. Louis and southward"—Gray's Manual.

PLANTAGINACEÆ.

PLANTAGO

major, L.

Waste places. Common.

sparsiflora, Michx. C. & S.

Fulton county, Wolf; Menard, Hall; and southward.

cordata, Lam.

Wet places. Frequent.

lanceolata, L.

Roadsides, &c., in a few localities.

Virginica, L.

Dry grounds. Peoria county, Brendel; and southward.

pusilla, Nutt. C. & S.

Hancock county, Mead; and southward.

Patagonica, Jacq.,
var. *aristata*, Gray. S-W.

Adams county, Mead; and southward.

PRIMULACEÆ.

ANDROSACE

occidentalis, Pursh. N.

Hillsides. Fulton county, Wolf; Kankakee, Hill; and northward.

DODECATHEON

Meadia, L.

Prairies and open rich woods. Frequent.

var. *Frenchii*, Vasey.

"Distinguished by its small size, few-flowered scape, and thin, broad ovate leaves, abruptly contracted into a margined petiole which is longer than the leaf."—Vasey.

Bluffs of Jackson and Union counties, French.

LYSIMACHIA

thyrsiflora, L. C. & N.

Swamps and ponds. Cass county, Mead; and northward. Scarce.

stricta, Ait.

Low grounds. Scarce.

ciliata, L.

Woods along streams. Common.

lanceolata, Walt.

Low grounds. Common.

longifolia, Pursh. C. & N.

Low grounds from Menard county northward.

ANAGALLIS

arvensis, L.

A common garden weed about Athens, Menard county, Hall.

CENTUNCULUS

minimus, L. C. & S.

Low grounds. Hancock county, Mead; Menard, Hall; and southward.

SAMOLUS

Valerandi, L.var. *Americanus*, Gray.

Wet places. Frequent.

HOTTONIA

inflata, Ell. S.

Wabash county, Schneck; Union, Forbes; and southward. Rare.

LENTIBULACEÆ.

UTRICULARIA

vulgaris, L.

Ponds. Frequent.

minor, L. N.

McHenry county, Vasey.

intermedia, Hayne. C. & N.

Peoria county, Brendel; McHenry, Vasey.

biflora, Lam.

Credited to Illinois in Gray's Manual.

gibba, L.

McHenry county, Vasey; in a pond near Pinckneyville, Perry county, Forbes. Rare.

BIGNONIACEÆ.

BIGNONIA

capreolata, L. S.

River banks. Near Alton, Miss Holmes; Wabash county, Schneck; and southward.

TECOMA

radicans, Juss.

River banks, from Henderson and Peoria counties southward.

CATALPA

bignonioides, Walt. S.

Common and undoubtedly indigenous in Wabash county, Schneck, and in other lower counties along the Ohio, Vasey.

MARTYNIA

probovidea, Glox.

Probably indigenous in southern counties; and a common roadside weed in many localities north.

OROBANCHACEÆ.

EPIPHEGUS

Virginiana, Bart. S.

Near Jonesboro, Union county, Vasey.

CONOPHOLIS

Americana, Wallroth.

Menard county, Hall; Marion, Bebb.

PHELIPEA

Ludoviciana, Don. C.

In the Sangamon river bottoms, Menard county, mostly parasitic on *AMBROSIA TRIFIDA*; very plentiful some seasons, in Sept. and Oct.—Hall.

APHYLLON

uniflorum, T. & G.

Woods. Frequent.

fasciculatum, T. & G. N.

Near Dixon, Lee county, Vasey.

SCROPHULARIACEÆ.

VERBASCUM

Thapsus, L.

Roadsides. Common.

Blattaria, L.

Roadsides, &c. Scarce.

LINARIA

Canadensis, Spreng.

Prairies and barrens. Scarce.

vulgaris, Miller.

Escaped from gardens to roadsides.

SCROPHULARIA

nodosa, L.

Rich woods. The narrow leaved form common by roadsides.

COLLINSIA

verna, Nutt.

Damp places, throughout.

CHELONE

glabra, L.

Banks of streams. Frequent.

PENTSTEMON

pubescens, Solander.

Prairies and barrens. Frequent.

Digitalis, Nutt.

River banks, throughout. Scarce.

grandiflorus, Fraser. N-W.

Frequent along the Mississippi in Henderson county above Oquawka, especially at Bald Bluff; Jo Daviess co., above Galena, in 1853, Brendel.

MIMULUS

ringens, L.

Wet places. Common.

alatus, Ait. C. & S.

Low grounds. Hancock county, Mead; Fulton, Wolf; and southward.

Jamesii, Torr.	N.	SEYMERIA	
Cold springs. Peoria county, Brendel; near Elgin, Kane county. Vasey; Winnebago, Bebb.	Rare.	macrophylla, Nutt.	
CONOBEA		River banks, throughout.	Rare.
multifida, Benth.		GERARDIA	
River banks and sand bars. Henderson, Peoria and Kankakee counties, and southward.		purpurea, L.	Common.
HERPESTIS		Low grounds.	
rotundifolia, Pursh.	C. & S.	aspera, Dougl.	Scarce.
Wet places. Hancock county, Mead; Menard, Hall; and southward.	Rare.	tenuifolia, Vahl.	Common.
GRATIOLA		Open woods, &c.	
Virginiana, L.		setacea, Walt.	
Wet places.	Common.	McHenry county, Vasey; Winnebago, Bebb; Menard, Hall.	
sphaerocarpa, Ell.	C. & S.	flava, L.	
Ponds and ditches, from Henderson co. southward.	Rare.	Hancock county, Mead.	
ILYSANTHES		quercifolia, Pursh,	Infrequent.
gratioloides, Benth.		Rich woods.	
Wet places.	Common.	integrifolia, Gray.	
SYNTHYRIS		Fulton county, Mead.	
Houghtoniana, Benth.	C. & N.	grandiflora, Benth.	
Prairies and barrens. Menard county, Hall; Henderson, (common about Oquawka); Lee, Vasey; Ogle, Bebb.	Scarce.	Woods. McHenry county, Vasey; Winnebago, Bebb; Peoria, Brendel; Menard, Hall.	Rare.
VERONICA		pedicularia, L.	Frequent.
Virginica, L.		auriculata, Michx.	
Woods.	Common.	Low grounds.	Frequent.
Anagallis, L.	C. & N.	CASTILLEIA	
Ponds and ditches. Menard county, Hall; and northward.	Scarce.	coccinea, Spreng.	Common.
Americana, Schw.		Prairies.	
Peoria county, Brendel.		sessiliflora, Pursh.	N.
scutellata, L.	N.	Winnebago county, Bebb; McHenry, Vasey.	
Bogs. Fulton county, Wolf; and northward.		PEDICULARIS	
serpyllifolia, L.		Canadensis, L.	
Fulton county, Wolf; and southward.	Scarce.	Dry prairies and woods.	Common.
peregrina, L.		lanceolata, Michx.	Common.
Common in wet and dry fields, &c.		Wet places.	
arvensis, L.		ACANTHACEÆ	
Fields, &c.	Frequent.	DIANTHERA	
BUCHNERA		Americana, L.	
Americana, L.		Margins of streams.	Frequent.
Menard county, Hall; St. Clair, Brendel.	Rare.	RUELLIA	
		ciliosa, Pursh.	Common.
		Dry grounds.	

<i>strepens</i> , L.	
Rich woods.	Infrequent.
VERBENACEÆ.	
VERBENA	
<i>angustifolia</i> , Michx.	
Dry grounds, throughout.	
<i>hastata</i> , L.	
Low grounds.	Common.
<i>urticifolia</i> , L.	
Roadsides, &c.	Common.
<i>stricta</i> , Vent.	
Roadsides in dry grounds.	Common.
<i>bracteosa</i> , Michx.	
With the last.	Common.
<i>Aubletia</i> , L.	S.
Frequent and undoubtedly indigenous in the Pine Hills of Union county, Forbes.	

LIPPIA	
<i>lanceolata</i> , Michx.	
Low grounds.	Common.
PHRYMA	
<i>Leptostachya</i> , L.	
Rich woods.	Frequent.

LABIATÆ.

TEUCRIUM	
<i>Canadense</i> , L.	
Low grounds.	Common.
TRICHOSTEMA	
<i>dichotomum</i> , L.	
Dry grounds.	Scarce.

ISANTHUS	
<i>cæruleus</i> , Michx.	
Dry hillsides, fields, &c.	Frequent.

MENTHA	
<i>viridis</i> , L.	
Wet places.	Scarce.
<i>piperita</i> , L.	
Wet places.	Rare.
<i>Canadensis</i> , L.	
Low grounds.	Common.

LYCOPUS	
<i>Virginicus</i> , L.	
Low grounds.	Common.

<i>Europæus</i> , L.,	
var. <i>integrifolius</i> , Gray.	
Low grounds.	Frequent.
var. <i>sinuatus</i> , Gray.	
Low grounds.	Common.

CUNILA	
<i>Mariana</i> , L.	S.
Marion county, Vasey ; and southward.	

PYCNANTHEMUM	
<i>incanum</i> , Michx.	
Rocky woods and hills. Peoria county, Munroe ; and southward.	
<i>pilosum</i> , Nutt.	
Dry woods, &c. Henderson, Peoria and Kankakee counties, and southward.	
<i>muticum</i> , Pers.	S.
Wabash county, (rare), Schneck.	
<i>lanceolatum</i> , Pursh.	
Dry woods and hillsides.	Common.
<i>linifolium</i> , Pursh.	
With the last. Scarce northward.	

CALAMINTHA	
<i>glabella</i> , Benth., var. <i>Nuttallii</i> , Gr.	
Near Chicago, Babcock, Vasey ; Kankakee co. Hill. Rare.	

HEDEOMA	
<i>pulegioides</i> , Pers.	
Dry woods and roadsides.	Common.
<i>hispida</i> , Pursh.	N. & W.
Sandy barrens and river banks. Winnebago county, Bebb ; McHenry, Vasey ; Lee, Miss Holmes ; Henderson ; St. Clair, Brendel.	

COLLINSONIA	
<i>Canadensis</i> , L.	S.
Wabash county, Schneck ; Jackson, French ; and southward.	

SALVIA	
<i>lyrata</i> , L.	S.
Jackson county, Vasey ; and southward.	

MONARDA	
<i>Clinopodia</i> , L.	
"Sparingly villous-pubescent or nearly glabrous ; stem rather acutely angled (2-4 ft. high) ; leaves ovate-lanceolate and ovate, acuminate, slender petioled, thin, coarsely and sharply serrate ; bracts whitish ; calyx moderately hirsute in the throat, hardly more so than in <i>M. DIDYMA</i> ;	

corolla an inch long, slightly pubescent, greenish-white or flesh-colored."—Gray.

In open rich woods near Oquawka, Henderson county : Marion county, Bebb.

fistulosa, L.

"Soft-pubescent with short hairs, or somewhat hoary, or glabrate : stem mostly with obtuse angles, (1-3 ft. high) : leaves commonly of rather firmer texture than in the preceding : bracts whitish or rarely purplish, dotted, the inner mostly hirsute-ciliate : calyx conspicuously and densely bearded at the throat : corolla (1-1½ in. long) pubescent, at least on the upper lip, purple or purplish."—Gray.

Wooded hillsides, &c.

Common.

Bradburiana, Beck.

Woods. Schuyler county, Mead : and southward. Also near Chicago, Babcock—Int.?

punctata, L.

Barrens.

Scarce.

BLEPHILIA

ciliata, Raf.

Dry open places, throughout.

hirsuta, Benth.

Rich woods.

Frequent.

LOPHANTHUS

nepetoides, Benth.

Borders of woods.

Common.

scrophulariæfolius, Benth.

With the last.

Common.

NEPETA

Cataria, L.

Roadsides.

Frequent.

Glechoma, Benth.

Occurs sparingly about gardens and in fields.

SYXANDRA

grandiflora, Nutt.

S.

Jackson county, French : Union, Forbes.

PHYSOSTEGIA

Virginiana, Benth.

The broad leaved form on river banks, a narrow leaved, taller form in dry woods. Common.

BRUNELLA

vulgaris, L.

Woods.

Common.

SCUTELLARIA

versicolor, Nutt.

Woods along streams.

Frequent.

canescens, Nutt.

C. & S.

Menard county, Hall : and southward.

serrata, Andrews.

S.

Woods. Wabash county, Schneck.

nervosa, Pursh.

C. & S.

Woods. Peoria county, Brendel : and southward.

parvula, Michx.

Dry hills and barrens.

Common.

var. *mollis*, Gray.

"Diffuse, rather large, softly pubescent throughout with sub-viscid hairs : leaves often ¾ of an inch long."

Sandy banks and rocky cliffs. Along the Mississippi north of Oquawka : also in Menard co., Hall : Fulton, Wolf : and northward to Kankakee (Hill) and Ogle (Bebb).

galericulata, L.

Damp woods, throughout.

Scarce.

lateriflora, L.

Banks of streams.

Common.

MARRUBIUM

vulgare, L.

Roadsides and waste places.

Common.

STACHYS

palustris, L.

Wet places.

Common.

var. *aspera*, Gray.

Low grounds.

Common.

var. *glabra*, Gray.

Woods along streams.

Frequent.

var. *cordata*, Gray.

Low grounds.

Scarce.

hyssopifolia, Michx.

Illinois—Gray's Manual.

LEONURUS

Cardiaca, L.

Waste places.

Common.

BORRAGINACEÆ.

SYMPHYTUM

officinale, L.

Sparingly escaped from gardens.

ONOSMODIUM

Carolinianum, DC.

River banks.

Frequent.

- molle*, Michx.
Dry hillsides, &c.
- LITHOSPERMUM**
arvense, L.
Only in a few localities.
angustifolium, Michx.
(Including *L. LONGIFLORUM*, Spreng., which is only the early flowering form—as was first discovered by Mr. Bebb, in 1873.)
Prairies, throughout. Scarce.
latifolium, Michx.
Borders of woods. Frequent.
hirtum, Lehm.
Dry prairies and barrens. Common.
canescens, Lehm.
Dry prairies and barrens. Common.
- MERTENSIA**
Virginica, DC.
Rich woods. Frequent.
- MYOSOTIS**
verna, Nutt.
Dry hills. Frequent.
- ECHINOSPERMUM**
Lappula, Lehm.
Roadsides and waste places. Common.
- CYNOGLOSSUM**
officinale, L.
Waste places. Common.
Virginicum, L. S.
Rich woods. Marion county, Bebb; and southward.
Morisoni, DC.
Borders of woods. Common.
- HELIOTROPIUM**
Curassavicum, L. C. & S.
Menard county, Hall; and southward.
- HELIOPHYTUM**
Indicum, DC. C. & S.
Waste places. From Menard county southward.
- HYDROPHYLLACEÆ.**
- HYDROPHYLLUM**
macrophyllum, Nutt. S.
Wabash county, Schneck.
- Virginicum*, L.
Rich woods. Frequent.
Canadense, L.
Rich woods. Scarce.
appendiculatum, Michx.
Rich woods. Frequent.
- ELLISIA**
Nyctelea, L.
(Including *E. AMBIGUA*, Nutt.) Common.
- PHACELIA**
bipinnatifida, Michx. S.
Rich woods. St. Clair county, Brendel; Wabash, Schneck; and southward.
Purshii, Buckley. S.
Moist shaded banks. Wabash county, Schneck; Union, Forbes.
- HYDROLEA**
affinis, Gray. S.
Union county, Brendel; Pulaski, Vasey.
- POLEMONIACEÆ.**
- POLEMONIUM**
reptans, L.
Woods. Frequent.
- PHLOX**
paniculata, L. C. & S.
Woods. Hancock county, Mead; Mason, Brendel; and southward.
maculata, L.
Rich woods. Near Dixon, Vasey; Woodford county, Brendel; Hancock, Mead. Rare.
glaberrima, L.
Prairies. Frequent.
pilosa, L.
Prairies and open dry woods. Common.
divaricata, L.
Rich woods. Common.
Stellaria, Gray. S.
“Glabrous, caespitose, somewhat perennial at base; leaves narrow linear and rather rigid, the upper slightly ciliate at base; peduncles elongated, mostly 1-flowered; corolla pale blue or nearly white, the lobes bifid with short-oblong segments. Cliffs of the Kentucky river, only by Dr. Short.”
“Bake Oven” and other rocks about Grand Tower, Jackson county, French.

bifida, Beek.

Prairies and dry woods. Common on lake shore south of Chicago, Babcock; Kankakee county, Hill; Peoria, Brendel; Mason and Cass, Mead; Menard, Hall; and southward. (Union county, Forbes.)
Scarce.

CONVOLVULACEÆ.

QUAMOCLIT

coccinea, Mæneh. C. & S.

Damp fields and river banks from Hancock co. southward.

IPOMŒA

Nil, Roth.

Damp fields, &c. Henderson county; and southward.

lacunosa, L. C. & S.

River banks. Henderson and Peoria counties, and southward.

pandurata, Meyer.

Banks of streams. Frequent.

CALYSTEGIA

sepium, R. Br.

Moist banks and low grounds. Common.

spithamæa, Pursh.

Dry open places. Frequent.

BONAMIA

Pickeringii, Gray. Int. ?

Common and perfectly hardy on a sandy prairie near the Mississippi, 4 miles north of Oquawka, Henderson county. If introduced it must have been long since.

CUSCUTA

tenuiflora, Engelm.

River banks, from Menard county northward.

inflexa, Engelm.

In dry grounds. Peoria and Fulton counties, Brendel, Wolf.

decora, Choisy. S-W.

Low prairies. Fulton county, Wolf; Menard, Hall; Washington, Vasey.

arvensis, Beyrich.

Dry prairies and barrens. Kankakee county, Hill; Fulton, Wolf; Cass, near Beardstown, Mead.

chlorocarpa, Engelm.

Low grounds. Kankakee county, Hill; Peoria, Brendel; Wabash, Schneck.

Gronovii, Willd.

Low grounds. Frequent.

compacta, Juss. C. & S.

From Kankakee and Peoria counties southward.

glomerata, Choisy.

Damp prairies. Frequent.

SOLANACEÆ.

SOLANUM

Dulcamara, L.

Sparingly escaped from cultivation to roadsides.

nigrum, L.

Waste places. Common.

Carolinense, L. C. & S.

Fields and river banks. Henderson and Peoria counties and southward. Common.

PHYSALIS

Philadelphica, Lam.

Rich grounds. Kankakee county, Hill; Fulton, Wolf; Henderson; Wabash, Schneck. Rare.

angulata, L.

Menard county, Hall; Union, Vasey.

pubescens, L. C. & S.

Low grounds. Kankakee county, Hill; Fulton, Wolf; and southward.

viscosa, L.

Dry grounds. Frequent.

Pennsylvanica, L.

In dry or damp grounds. Frequent.

var. *lanceolata*, Gray.

Sandy prairies and barrens. Frequent.

NICANDRA

physaloides, Gærtn.

Waste places. Scarce.

DATURA

Stramonium, L.

Roadsides and waste places. Common.

Tatula, L.

With the last. Common.

GENTIANACEÆ.

SABBATIA

angularis, Pursh. C. & S.

Dry grounds from Hancock county southward. Frequent.

FRASERA

Carolinensis, Walt.

Fulton county, Wolf; and frequent southward.

GENTIANA

quinqueflora, Lam.

Hillsides. Scarce.

var. *occidentalis*, Gray.

With the typical form. Frequent.

crinita, Frœl. N.

Low grounds. Common near Chicago, Babcock; Winnebago county, Bebb.

detonsa, Fries. N.

With the last.

alba, Muhl.

Low grounds, throughout. Frequent.

Andrewsii, Griseb.

With the last. Frequent.

Saponaria, L.

Moist woods. Thornton, Cook county, Hill; Ogle, Miss Holmes. Rare.

puberula, Michx.

Dry prairies. Frequent.

BARTONIA

tenella, Muhl.

Woods. Kankakee county, Hill.

OBOLARIA

Virginica, L. S.

Rich woods. Jonesboro, Union county, Vasey; Wabash, Schneck.

MENYANTHES

trifoliata, L. N.

Bogs. Peoria county, Brendel; and northward.

LOGANIACEÆ.

SPIGELIA

Marilandica, L. S.

Rich woods. Near Jonesboro, Union county, Vasey; Jackson county, Brendel.

APOCYNACEÆ.

AMSONIA

Tabernaemontana, Walt. C. & S.

Low grounds. Peoria county, Brendel; and southward.

FORSTERONIA

difformis, A. DC. S.

River banks. Union county, Brendel.

APOCYNUM

androsæmifolium, L.

Borders of woods. Common.

cannabinum, L.

Banks of streams. Common.

ASCLEPIADACEÆ.

ASCEPIAS

Cornuti, Decaisne.

Rich soil. Common.

Sullivantii, Engelm. C. & N.

Low grounds. Frequent from Menard county northward.

phytolaccoides, Pursh.

Open rich woods, hillsides. Frequent.

purpurascens, L.

Borders of woods. Frequent.

variegata, L.

Dry woods. McLean county near Bloomington. Vasey; Wabash, Schneck. Rare.

ovalifolia, Decaisne. N.

Near Ringwood, McHenry county, Vasey.

quadrifolia, Jacq.

Hillsides in woods. Henderson county; Peoria, Brendel; Menard, Hall. Rare.

perennis, Walt. S.

Low grounds. Wabash county, Schneck; Jackson, Brendel; and southward.

incarnata, L.

Low grounds. Common.

obtusifolia, Michx.

Sandy prairies and barrens. Frequent.

Meadii, Torr. W.

Prairies. Near Augusta, Hancock co., Mead; Peoria, Brendel; Menard, Hall. Rare.

tuberosa, L.

Dry hills and barrens. Common.

verticillata, L.

Prairies and barrens. Common.

ACERATES

viridiflora, Ell.

Barrens. Common.

- lanuginosa*, Decaisne. N.
Prairies, Winnebago county. Bebb : McHenry.
Vasey.
- longifolia*, Ell. Frequent.
Moist prairies.
- paniculata*, Decaisne. C. & S.
Prairies, Near Bloomington and Decatur, Miss
Holmes ; Marion county, Bebb, Vasey.

ENSLENIA

- albida*, Nutt. C. & S.
River banks. Hancock county. Mead : Menard,
Hall ; and southward.

GONOLOBUS

- lævis*, Michx. S.
Wabash county, Schneck.

OLEACEÆ.

FRAXINUS

- Americana*, L. Common.
River banks.
- pubescens*, Lam. Frequent.
Banks of streams.
- viridis*, Michx. f. Frequent.
River banks.
- sambucifolia*, Lam. C. & N.
Swamps, Fulton and Peoria counties, Wolf,
Brendel : Kankakee, Hill : and probably north.
- quadrangulata*, Michx. Frequent.
Rich woods.

FORESTIERA

- acuminata*, Poir. C. & S.
River banks. Menard county, Hall ; and south-
ward.

ARISTOLOCHIACEÆ.

ASARUM

- Canadense*, L. Common.
Rich woods.

ARISTOLOCHIA

- Serpentaria*, L. C. & S.
Rich woods, from Peoria county (Brendel) south-
ward.
- tomentosa*, Sims. S.
River banks. Wabash county, Schneck ; Jack-
son, Vasey ; and southward.

NYCTAGINACEÆ.

ONYBAPHUS

- nyctagineus*, Sweet.
Sandy and rocky river banks and barrens. Like-
ly to become a troublesome weed in cultivated
grounds, where it spreads rapidly. Frequent.

PHYTOLACCACEÆ.

PHYTOLACCA

- decandra*, L.
Low grounds, waste places. Frequent.

CHENOPODIACEÆ.

CYCLOLOMA

- platyphyllum*, Moq. W. & N.
Sandy river banks. Menard county, Hall ; Ful-
ton, Wolf ; common along the Mississippi about
Oquawka, and probably northward. Chicago,
(rare). Babcock ; perhaps introduced. Also at
Grand Tower, Jackson county, French, doubtless
adventive from the north.

CHENOPODIUM

- album*, L. Common.
Fields, gardens, &c.
- glaucum*, L. N.
Streets of Chicago, Babcock ; Winnebago county,
Bebb : Kankakee, Hill. Scarce.
- urbicum*, L. Scarce.
Waste places.
- murale*, L. S.
Southern Illinois, Vasey.
- hybridum*, L. Frequent.
Waste places.
- Botrys*, L. Common.
Escaped from gardens to roadsides.
- ambrosioides*, L. Common.
Roadsides, &c.
- var. anthelminticum*, Gr. Common.
Roadsides, &c.

BLITUM

- capitatum*, L. N.
McHenry county, Vasey.

ATRIPLEX

- patula*, L.
Abundant at Canton, Fulton county, Wolf ; Chi-
cago, Babcock.

CORISPERMUM

hysopifolium, L. N.E.

Abundant on lake shore about Chicago, Babeock.

AMARANTACEÆ.

AMARANTUS

paniculatus, L.

Sparingly escaped from gardens.

retroflexus, L.

Fields, gardens, &c. Common.

albus, L.

Roadsides and waste places. Common.

spinusus, L. C. & S.Waste places, from Peoria county southward.
Scarce.

MONTELLIA

tamariscina, Gray.

River banks. Common.

IRESINE

celosioides, L. S.

Wabash county, Schneck.

FRELICHIA

Floridana, Moq. W.Sandy barrens. Henderson county; Mason and
Menard. Mead, Hall.

POLYGONACEÆ.

POLYGONUM

orientale, L.

Spontaneous about gardens.

Pennsylvanicum, L.

Damp places. Common.

incarnatum, Ell.

Low grounds. Common.

Hartwrightii, Gray. N.

Winnebago county, Bebb.

Persicaria, L.

Roadsides, &c. Common.

Hydropiper, L.

Low grounds. Common.

acre, H. B. K.

Low grounds. Common.

hydropiperoides, Michx.

Margins of ponds, &c. Frequent.

amphibium, L.

In ponds and damp grounds. Common.

Virginianum, L.

Rich woods. Scarce.

articulatum, L. N.

Near Dixon, Vasey; Ogle county, Bebb.

aviculare, L.

Roadsides and waste places. Common.

var. *erectum*, Roth.

Common.

ramosissimum, Michx.

River banks and barrens. Frequent.

tenue, Michx.

Dry prairies and barrens. Frequent.

arifolium, L.

Low grounds. McHenry county, Vasey.

sagittatum, L.

Low grounds. Frequent.

Convolvulus, L.

Fields, and waste places. Common.

dumetorum, L.

Moist thickets. Common.

FAGOPYRUM

esculentum, Moench.

Persistent in fields.

RUMEX

Patientia, L.Spontaneous about gardens at Augusta, Hancock
county. Mead.*orbiculatus*, Gray. C. & N.Wet places. Menard county, Hall; and north-
ward. Scarce.*Britannica*, L.

Low grounds. Frequent.

conglomeratus, Murray.

Kankakee county, Hill.

verticillatus, L.

Wet places. Frequent.

crispus, L.

Gardens and waste places. Common.

obtusifolius, L.

With the last. Frequent.

maritimus, L. N.

McHenry county, Vasey.

Engelmanni, Ledeb. S.W.Formerly in St. Clair county, station now de-
stroyed by cultivation, Engelmann.

Acetosella, L.

Dry fields, roadsides, &c.

Common.

BRUNNICHIA

cirrrosa, Banks.

S.

Pulaski county, Brendel.

LAURACEÆ.

SASSAFRAS

officinale, Nees.

Rich woods.

Frequent.

LINDERA

Benzoin, Meisner.

C. & S.

Damp woods. Fulton county, Wolf; and southward.

THYMELEACEÆ.

DIRCA

palustris, L.

N.

Damp woods. Peoria county, Brendel; and northward.

ELÆAGNACEÆ.

SHEPHERDIA

Canadensis, Nutt.

Near Chicago, Babcock.

SANTALACEÆ.

COMANDRA

umbellata, Nutt.

Dry prairies.

Common.

LORANTHACEÆ.

PHORADENDRON

flavescens, Nutt.

S.

Wabash and Jackson counties; and southward.

SAURURACEÆ.

SAURURUS

cernuus, L.

Swamps.

Scarce.

CERATOPHYLLACEÆ.

CERATOPHYLLUM

demersum, L.

Ponds.

Frequent.

CALLITRICHACEÆ.

CALLITRICHE

Austini, Engelm.

Damp grounds. Menard county, Hall; Washington, Vasey.

verna, L.

Ponds. Peoria and Fulton counties, Brendel, Wolf.

heterophylla, Pursh.

C. & S.

Ponds. Menard county, Hall; Wabash, Schneck.

autumnalis, L.

Hancock county, Mead; Fulton, Wolf.

EUPHORBIACEÆ.

EUPHORBIA

polygonifolia, L.

N-E.

Common on sands of lake shore about Chicago, Babcock.

Geyeri, Engelm.

C. & N.

Sandy prairies and barrens of Menard, Mason and Cass counties; Henderson; Lee, Vasey.

serpens, H. B. K.

S-W.

In rich soil. Menard county, Hall; St. Clair, Engelm. Common along R. R. I. & St. L. Railroad at Monmouth, Warren county, probably adventive from the south.

glyptosperma, Engelm.

St. Clair county, Engelm.: Menard, Hall; Winnebago, Bebb.

Rare.

maculata, L.

Dry or moist open places.

Common.

humistrata, Engelm.

W.

Alluvial river banks. Henderson county; Fulton, Wolf; Menard, Hall; and southward.

hypericifolia, L.

Fields, dry open woods, &c.

Common.

corollata, L.

Dry open woods and prairies.

Common.

dentata, Michx.

C. & S.

Henderson county (common along C. B. & Q. Railroad east of Sagetown, perhaps introduced); Peoria, Brendel; Adams, Vasey; Menard, Hall; and probably southward.

Scarce.

heterophylla, L.

Rocky hillsides, &c. Winnebago county, Bebb; Kankakee, Hill; Peoria, Brendel; Mason and Menard, Mead, Hall; and probably southward.

Infrequent.

obtusata, Pursh.

Damp woods. Kankakee county, Hill; Peoria, Brendel; Hancock, Mead. Rare.

Helioscopia, L.

About gardens in Menard and Hancock counties, Hall, Mead.

Cyparissias, L.

Sparingly escaped from cultivation.

commutata, Engelm.

Near Chicago, Babcock; banks of Rock river in Winnebago and Ogle counties, Bebb, and at Dixon, Vasey.

ACALYPHA

Virginica, L.

Open woods, fields, &c. Common.

var. *gracilens*, Gray.

In drier places.

Caroliniana, Walt. S.

Near Jonesboro, Union county, Vasey; Wabash, Schneck.

TRAGIA

macrocarpa, Willd. S.

Banks of the Ohio at Golconda, Pope county, Forbes.

CROTON

glandulosus, L. C. & S.

Common in sandy barrens about Oquawka, Henderson county; Fulton, Wolf; and southward. Scarce.

capitatus, Michx. C. & S.

Barrens and roadsides. Menard county, Hall; and southward.

monanthogynus, Michx. S.

Barrens. Marion county, Vasey; St. Clair, Brendel; and southward.

CROTONOPSIS

linearis, Michx. C. & S.

Barrens. Menard county, Hall; and southward.

PHYLLANTHUS

Carolinensis, Walt. C. & S.

From Fulton and Mason counties southward.

URTICACEÆ.

ULMUS

fulva, Michx.

River banks. Common.

Americana, L.

With the last. Common.

racemosa, Thomas. N.

Near Elgin, Kane county, Vasey.

alata, Michx. S.

Wabash and Jackson counties; and southward.

CELTIS

occidentalis, L.

Banks of streams. Common.

Mississippiensis, Bosc. S.

River banks. Wabash and Jackson counties; and southward.

MORUS

rubra, L.

Rich soil along streams. Common.

URTICA

gracilis, Ait.

Moist grounds. Scarce.

dioica, L.

Waste places. Hancock county, Mead; Fulton, Wolf; Wabash, Schneck. Scarce.

LAPORTEA

Canadensis, Gaud.

Damp rich woods. Frequent.

PILEA

pumila, Gray.

Damp woods and banks. Common.

BÆHMERIA

cylindrica, Willd.

Damp woods. Frequent.

PARIETARIA

Pennsylvanica, Muhl.

Shaded rocks, hedges, &c. Common.

CANNABIS

sativa, L.

Waste places. Common.

HUMULUS

Lupulus, L.

Banks of streams. Frequent.

PLATANACEÆ.

PLATANUS

occidentalis, L. C. & S.

River banks. Henderson, Peoria and Kankakee counties, and southward. Common.

JUGLANDACEÆ.

JUGLANS

cinerea, L.

Banks of streams. Common.

nigra, L.

With the last. Common.

CARYA

olivæformis, Nutt. C. & S.

River bottoms from Henderson and Peoria counties southward: and probably northward to Wisconsin along the Mississippi. The nut varies greatly in size and in the texture of the shell, which is sometimes thin and white as in the last.

alba, Nutt.

Dry hillsides, &c. Common.

sulcata, Nutt.

River bottoms from Henderson and Peoria counties southward: and probably northward to Wisconsin along the Mississippi. The nut varies greatly in size and in the texture of the shell, which is sometimes thin and white as in the last.

tomentosa, Nutt.

Dry hillsides and barrens. Common.

porcina, Nutt.

Woods. Common.

amara, Nutt.

Woods along streams. Common.

CUPULIFERÆ.

QUERCUS

alba, L.

Rich woods. Common.

obtusiloba, Michx.

Barrens. Scarce northward.

macrocarpa, Michx.

In rich soil. Common.

[Fertile hybrids of *ALBA* and *MACROCARPA* occur in Menard county, Hall; Winnebago, Bebb.]*lyrata*, Walt. S.

Near Jonesboro, Union county, Vasey, Wolf; Wabash, Schneck.

bicolor, Willd.

Banks of streams. Frequent.

Prinus, L.

Elgin, Kane county, Vasey; and frequent southward.

var. *monticola*, Michx.

Menard county, Hall.

var. *acuminata*, Michx.

Rich woods. Frequent.

imbricaria, Michx.

Near Joliet, Munroe; and southward.

nigra, L.

Sandy barrens. Near Chicago, Babcock; Henderson county; and southward. Common.

LEANA, Nutt.—This hybrid occurs in Peoria county, Brendel; Fulton, Wolf; and formerly in Hancock, Mead: also in Southern Ills., Forbes. Prof. Wolf has seen an *IMBRICARIA* tree with the leaves of *LEANA* on the lower branches.*falcata*, Michx. S.

Jackson and Union counties, French, Vasey.

coccinea, Wang.

Rich, or dry and sandy soil. Common.

var. *tinctoria*, Gray.

With the last. Common.

rubra, L.

Mostly in rich soil along streams. Common.

palustris, Du Roi.

River banks. Scarce northward.

FAGUS

ferruginea, Ait. S.

Wabash and Jackson counties; and southward.

CORYLUS

Americana, Walt.

Hillsides and ravines. Common.

OSTRYA

Virginica, Willd.

Rich woods. Common.

CARPINUS

Americana, Michx.

Banks of streams. Frequent.

MYRICACEÆ.

COMPTONIA

asplenifolia, Ait. N.

Kankakee county, Hill, about Chicago, Munroe, Vasey, Babcock.

BETULACEÆ.

BETULA

lenta, L.

Near Dixon, Vasey; Wabash county, Schneck.

papyracea, Ait.

N.

Lake shore about Chicago, (rare), Babcock; and Evanston, Vasey.

nigra, L.

C. & S.

River banks. Kankakee and Henderson counties and southward. Common.

pumila, L.

N.

Wet places. Near Chicago, Munroe; McHenry county, Vasey.

ALNUS

serrulata, Ait.

Bureau, McLean, Macon and Madison counties, Miss Holmes; White, Schneck; Union, French.

SALICACEÆ.

SALIX

(By M. S. BEBB.)

candida, Willd.

N.

In cold bogs, Peoria county, Brendel; McHenry, Vasey; Cook, Babcock; Winnebago! Rare.

tristis, Ait.

Sterile knolls and warm sandy prairies. Widely distributed but Infrequent.

humilis, Marshall.

Prairies and barrens. Everywhere our most common Willow.

Mr. Walsh has described (Proc. Ent. Soc'y Phila.) the "astonishing number of ten distinct galls" produced by this species: the number borne by other common Willows varying from one to (usually) three or four.

discolor, Muhl.

Banks of streams, throughout. Common.

Probably including several species confused by cross fertilization.

sericea, Marshall.

Peoria county, Brendel.

Rare.

This species was published in 1785. *S. PETIOLARIS* was founded upon a cultivated plant, supposed to be of British origin, and published by Sir J. E. Smith (Linn. Trans. Vol. 6) in 1802, though the paper was received in 1801: therefore, should the two be united as has been done by Andersson, *S. SERICEA* should take precedence as the type of the aggregated species.

petiolaris, Smith.

Wabash county, Schneck; reported by others only at the north, where it is frequent.

var. *gracilis*, Anders.

Both forms, *SERICOCARPA* and *LEIOCARPA*, at Fountaindale, Winnebago county.

From *S. SERICEA*, Marsh. through this species and *S. ANGUSTATA*, Pursh to *S. CORDATA*, Muhl. an unbroken series of transitional forms occur—

the result of cross fertilization—making the limitation of species very difficult, if not purely arbitrary. The hybrid *SERICEA* x *CORDATA* presents, very nearly, the technical characters of *S. PETIOLARIS*, Smith.

adenophylla, Hook.

N-E.

Lake shore near Chicago, Babcock, Vasey.

Retains under cultivation its remarkably distinct character: the tomentose, glandular-serrate leaves, very unlike those of any other Willow occurring in the States east of the Mississippi.

cordata, Muhl.

Low, wet prairies and along streams.

Common.

(?) var. *glaucophylla*, Bebb.

On the lake shore, associated with *S. ADENOPHYLLA*—Babcock; Fountaindale, (only three plants.)

In the Willow garden at Fountaindale, where several forms of this fine Willow sent by Mr. Babcock are under cultivation, it has every appearance of being specifically distinct from *S. CORDATA*.

rostrata, Richardson.

N.

Henderson county, Patterson; otherwise only reported from the northern counties, where it is not uncommon.

lucida, Muhl.

Along streams, usually growing at the water's edge. Common at the north.

nigra, Marsh.

Common along water courses, especially southward.

amygdaloides, Anders.

(S. NIGRA, var., Anders. in DC.)

Peoria county, Brendel; Henderson, Patterson; Cook, Babcock; Winnebago!

There is a similarity between the characters which distinguish this from the typical form of *S. NIGRA* and those which separate *S. PETIOLARIS* from *S. SERICEA*. If *S. PETIOLARIS* is admitted as a valid species, *S. AMYGDALOIDES* claims equal distinction.

longifolia, Muhl.

Wet places, throughout.

Common.

var. *argyrophylla*, Anders.

Winnebago county!

myrtilloides, L.

N.

Cold peat bogs. Peoria county, Brendel; McHenry, Vasey. Rare.

Widely distributed in sub-arctic regions, extending southward along the Pacific coast to Oregon, and on the Atlantic side to New Jersey. Its occurrence so far south in the Mississippi valley as found by Dr. Brendel, taken in connection with the equally unexpected finding of *S. CANDIDA*, indicates an exceptionally cold spot for the latitude.

POPULUS

tremuloides, Michx. Common.
Woods.

grandidentata, Michx. C. & N.
From Menard county northward. Frequent.

heterophylla, L. S.
River banks. Wabash and Jackson counties,
and southward.

monilifera, Ait. Common.
River banks.

angulata, Ait.
Hancock county, Mead.

CONIFERÆ.

PINUS

Banksiana, Lambert. N.
Abundant at Pine Station, near Chicago, Bab-
cock ; Og'e county, Bebb.

mitis, Michx. S.
Jackson and Union counties, Forbes.

Strobus, L. N.
Cook county, Vasey ; Winnebago, Bebb.

LARIX

Americana, Michx. N.
McHenry county, Vasey.

THUJA

occidentalis, L. N.
Swamps. One very old tree noticed near Peoria,
many years ago, Brendel ; Chicago, Babcock,
and Elgin, Kane county, Vasey.

CUPRESSUS

thyoides, L. S.
Gallatin county, Schneck.

TAXODIUM

distichum, Richard. S.
Swamps. Wabash county, Schneck ; Union,
Vasey, Brendel.

JUNIPERUS

communis, L.
Near Chicago, Babcock ; Kankakee county, Hill ;
Wabash, Schneck. Scarce.

Virginiana, L.
Rocky hillsides, &c. Frequent.

Sabina, L.,
var. procumbens, Pursh. N-E.
Near Chicago, Babcock.

TAXUS

baccata, L.,
var. Canadensis, Gray. N.
Winnebago county, Bebb.

ARACEÆ.

ARISÆMA

trihyllum, Torr.
Rich woods. Common.

Dracontium, Schott.
Woods along streams. Common.

PELTANDRA

Virginica, Raf.
Ponds. Kankakee county, Hill ; Peoria, Bren-
del ; Cass, Mead ; and in S. Illinois, Forbes.
Scarce.

SYMPLOCARPUS

fetidus, Salisb.
Wet places, especially near cold springs.
Infrequent.

ACORUS

Calamus, L.
Margins of ponds, &c. Frequent.

LEMNACEÆ.

LEMNA

trislca, L.
Ponds. Infrequent.

minor, L.
Ponds. Frequent.

polyrrhiza, L.
Ponds. Common.

WOLFFIA

Columbiana, Karsten.
Ponds. Menard county, Hall ; Fulton, Wolf ;
St. Clair, Engelmann.

Braziliensis, Weddell.
Menard county, Hall.

TYPHACEÆ.

TYPHA

latifolia, L.
Margins of ponds. Common.

SPARGANIUM

eurycarpum, Engelm.
Wet places. Common.

simplex, Hudson. N.
McHenry county, Vasey.

var. *androcladum*, Gray. S.

Wabash county, Schneck.

var. *angustifolium*, Gray. N.

McHenry county, Vasey.

NAIADACEÆ.

NAIAS

flexilis, Rostk.

Ponds.

Frequent.

Indica, var. *gracillima*, Braun.

Ponds. Wabash county, Schneck.

ZANNICHELLIA

palustris, L.

Ponds. Peoria, Menard, Fulton and Henderson counties, and probably elsewhere, but Scarce.

POTAMOGETON

natans, L.

Ponds.

Frequent.

Claytonii, Tuckerman.

Fulton county, Wolf.

Vaseyi, Robbins. N.

Near Ringwood, McHenry county, Vasey.

Spirillus, Tuckerman.

McHenry county, Vasey.

hybridus, Michx.

Ponds.

Infrequent.

rufescens, Schrader. N.

McHenry county, Vasey.

lonchites, Tuckerman. N.

Chicago, Babcock ; McHenry county, Vasey.

pulcher, Tuckerman.

Mason county, Hall.

gramineus, L.

Near Chicago, Babcock ; McHenry county, Vasey ; Hancock, Mead.

lucens, L.

McHenry county, Vasey ; Kankakee, Hill ; Wabash, Schneck.

perfoliatus, L.

McHenry county, Vasey ; Kankakee, Hill.

compressus, L.

McHenry county, Vasey ; Kankakee, Hill ; Menard, Hall.

pauciflorus, Pursh.

Peoria county, Brendel ; Kankakee, Hill ; McHenry, Vasey.

pusillus, L.

Peoria and Fulton counties, Brendel, Wolf ; Menard, Hall.

pectinatus, L.

Ponds.

Frequent.

ALISMACEÆ.

TRIGLOCHIN

palustre, L. N.

Peoria county, Brendel ; Kane and McHenry, Vasey.

maritimum, L. N-E.

Chicago, Babcock ; McHenry county, Vasey.

SCHEUCHZERIA

palustris, L. C. & N.

Menard county, Hall ; McHenry, Vasey.

ALISMA

Plantago, L., var. *Americanum*, Gr.

Margins of ponds, &c.

Common.

ECHINODORUS

parvulus, Engelm.

Mason and Cass counties, Mead.

rostratus, Engelm. C. & S.

About ponds, &c. Peoria county, Brendel ; and southward.

radicans, Engelm.

Menard county, Hall ; and southward.

SAGITTARIA

variabilis, Engelm.

Ponds and ditches.

Common.

calycina, Engelm.

Margins of ponds in Mississippi bottoms about Oquawka, Henderson county ; Menard county, Hall. Rare.

heterophylla, Pursh.

Ponds, often in water two or three feet deep. Frequent.

graminea, Michx.

Margins of ponds.

Scarce.

HYDROCHARIDACEÆ.

LIMNOBIUM

Spongia, Richard. S.

Ponds. Union county, Vasey, Brendel.

ANACHARIS

Canadensis, Planchon.

Ponds and slow streams.

Common.

VALLISNERIA

spiralis, L.

Slow streams.

Infrequent.

ORCHIDACEÆ.

ORCHIS

spectabilis, L.

Rich woods throughout, but

Scarce.

HABENARIA

virescens, Spreng.

Near Chicago, Babcock; Peoria county, Brendel.

viridis, R. Br.,var. *bracteata*, Reich. N.Near Chicago, Babcock; Kankakee county, Hill;
Winnebago and McHenry, Bebb, Vasey.*Hookeri*, Torr.

Glencoe, Cook county, Babcock.

ciliaris, R. Br.Kankakee county, Hill: near Jonesboro, Union
county, Miss Holmes.*leucophæa*, Gray.

Moist prairies.

Scarce.

lacera, R. Br.

Calumet, Cook county, Babcock.

psycodes, Gray.

Winnebago county, Miss Holmes.

peramœna, Gray.

S.

Marion county, Bebb; and southward.

GOODYERA

repens, R. Br.

Woods. Union county, French.

pubescens, R. Br.

Woods. McHenry county, Vasey.

SPIRANTHES

latifolia, Torr.

Menard county, Hall.

cernua, Richard.

Prairies.

Scarce.

gracilis, Bigelow.

Prairie hillsides.

Scarce.

POGONIA

ophioglossoides, Nutt.

McHenry county, Vasey; Kankakee, Hill.

pendula, Lindley.Damp woods. Peoria county, Brendel; Menard,
Hall: in the highlands of Union county, very
common in certain localities, occurring in patches
about old logs, &c., Forbes; Wabash, Schneck.

CALOPOGON

pulchellus, R. Br.

Prairies.

Infrequent.

MICROSTYLIS

monophyllos, Lindl.

C. & N.

Swamps. Menard county, Brendel; Elgin, Kane
county, Vasey.

Rare.

ophioglossoides, Nutt.Rich woods, in Henderson, Hancock and Menard
counties.

Rare.

LIPARIS

liliifolia, Richard.

Rich woods.

Scarce.

Læselii, Richard.

Bogs. Peoria county, Brendel; Menard, Hall.

Rare.

CORALLORHIZA

odontorhiza, Nutt.

C. & S.

Woods. Henderson county; Menard, Hall; Wa-
bash, Schneck; Union, Forbes.

Rare.

multiflora, Nutt.

Dry woods. St. Clair county, Brendel.

APLECTRUM

hyemale, Nutt.Rich woods. Winnebago county, Miss Holmes;
Peoria, Brendel; Hancock, Mead; Menard, Hall;
common near Makanda, Jackson county, Forbes;
Wabash, Schneck.

Scarce.

CYPRIPEDIUM

candidum, Muhl.

Dry or moist prairies. Becoming scarce.

parviflorum, Salisb.

Damp prairies and woods.

Scarce.

pubescens, Willd.

Rich woods.

Frequent.

spectabile, Swartz.

Bogs and damp woods.

Scarce.

AMARYLLIDACEÆ.

PANCRATIUM

rotatum, Ker.

S.

Swamps. Wabash county, Schneck; Jackson
and Union, Vasey, Forbes.

AGAVE

Virginica, L. S.

Rocky hillsides, &c. St. Clair county, Brendel ;
Wabash, Schneck ; and southward.

HYPOXYS

erecta, L.

Open grassy places. Common.

HÆMODORACEÆ.

ALETRIS

farinosa, L. E.

Woods. Common at Hyde Park, near Chicago,
Babcock ; Kankakee county, Hill ; Wabash,
Schneck.

IRIDACEÆ.

IRIS

versicolor, L.

Low grounds. Common.

cuprea, Pursh.

Mound City, Pulaski county, Vasey.

PARDANTHUS

Chinensis, Ker.

Thoroughly naturalized at Grand Tower, Jack-
son county, Vasey ; and sparingly escaped from
cultivation in other localities.

SISYRINCHIUM

Bermudiana, L.

Moist prairies, &c. Common.

DIOSCOREACEÆ.

DIOSCOREA

villosa, L.

Rich woods. Frequent.

SMILACEÆ.

SMILAX

rotundifolia, L.

Rich woods. Infrequent.

var. *quadrangularis*, Gray. S.

From St. Clair and Wabash counties southward.

glauca, Walt. C. & S.

Woods. Springfield, Vasey ; and southward.

tamnoides, L. S.

Thickets. Jackson county, French ; and south-
ward.

hispida, Muhl.

Rich woods. Frequent.

herbacea, L.

Woods and open places along streams.

LILIACEÆ.

TRILLIUM

sessile, L.

Moist woods. Kankakee county, Hill ; Wabash.
Schneck. Rare.

recurvatum, Beck.

Rich woods. Common.

grandiflorum, Salisb.

Abundant in ravines at Glencoe, Cook county,
Babcock ; Wabash, Schneck. Rare.

erectum, L., var. *album*, Pursh.

Rich woods. Scarce.

var. *declinatum*, Gray.

Rich woods, northward.

cernuum, L. N ?

Moist woods. McHenry county, Vasey ; Kan-
kakee, Hill.

nivale, Riddell. N.

Rich woods. Fulton and Peoria counties, Wolf,
Brendel ; near Dixon, Vasey. Rare.

MEDEOLA

Virginica, L.

Near Chicago, Babcock.

MELANTHIUM

Virginicum, L.

Damp prairies. Infrequent.

ZYGADENUS

glauca, Nutt.

N.

Elgin, Kane county, Vasey.

STENANTHIUM

angustifolium, Gray. C. & S.

Pleasant Vale, Pike county, Mead ; Jonesboro.
Union county, Miss Holmes.

VERATRUM

Woodii, Robbins.

On dry wooded hillsides, near limestone ridges,
along Warsaw road, between West Point and
Bear Creek, Hancock county, Mead. July.

CHAMÆLIRIUM

luteum, Gray.

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TOFIELDIA

glutinosa, Willd. N.

Near Chicago, Babcock ; McHenry co., Vasey.

UVULARIA

grandiflora, Smith.

Rich woods. Frequent.

perfoliata, L.

Rich woods. Scarce.

SMILACINA

racemosa, Desf.

Rich woods. Frequent.

stellata, Desf.

Moist banks. Frequent.

trifolia, Desf.

Near Chicago, Babcock ; Hancock county, Mead.

bifolia, Ker. N.

Moist woods. Kankakee, Hill ; and northern counties.

POLYGONATUM

biflorum, Ell.

Open woods. Common.

giganteum, Dietrich.

Woods. Common.

LILIUM

Philadelphicum, L.

Prairies. Common.

Canadense, L.

Moist prairies. Infrequent.

superbum, L.

Moist prairies. Infrequent.

ERYTHRONIUM

Americanum, Smith. N.

Near Chicago, Babcock ; McHenry co., Vasey.

albidum, Nutt.

Moist rich woods. Common.

SCILLA

Fraseri, Gray.

Low prairies. Common.

ALLIUM

tricoceum, Ait.

Rich woods. Frequent.

cernuum, Roth. N.

Common on prairies about Chicago, Babcock ; Kankakee county, Hill ; La Salle, Fortes ; McHenry, Vasey.

stellatum, Nutt.

W.

On rocky edges of the bluffs on both sides of the Mississippi below St. Louis ; on sandstone precipices above Prairie du Rocher ; Engelmann.

Canadense, Kalm.

Damp prairies and woods. Common.

striatum, Jacq.

C. & S.

Prairies and open woods. Fulton county, Vasey ; and southward. Frequent.

JUNCACEÆ.

LUZULA

campestris, DC.

Dry woods, &c. Frequent northward.

JUNCUS

effusus, L.

Low grounds. Scarce.

Balticus, Dethard.

N-E.

Common on lake shore about Chicago, Babcock.

marginatus, Rostk.

Kankakee county, Hill ; Hancock, Mead ; and southward.

bufonius, L.

Damp places by roadsides. Henderson county ; McHenry, Vasey. Rare.

Gerardi, Loisel.

N-E.

Chicago, Vasey.

tenuis, Willd.Common in wet meadows, &c. Var. *SECUNDUS* in Hancock county, Mead.*Greenii*, Oakes & Tuck.

N-E.

River banks near Kankakee, Hill.

Vaseyi, Engelm.

N.

Near Ringwood, McHenry county, Vasey.

alpinus, var. *insignis*, Fries.

N.

Near Ringwood, McHenry county, Vasey.

acuminatus, Michx. :var. *legitimus*, Engelm.

Low grounds, throughout.

var. *robustus*, Engelm. C. & S.

From Hancock county (Mead) southward.

var. *debilis*, Engelm.

S.

Southern Illinois, Vasey.

nodosus, L.

N.

Swamps. Kankakee county, Hill ; and northward.

var. *megacephalus*, Torr. C. & N.

Menard county, Hall: and northward.

brachycarpus, Engelm.

Moist woods and prairies.

Scarcely.

Canadensis, J. Gay.:

var. *longicaudatus*, Eng. N.

Kankakee county, Hill; McHenry, Vasey.

var. *brachycephalus*, Eng. N.

Peoria county, Brendel, and probably northward.

var. *coarctatus*, Engelm. N.

Kankakee county, Hill.

PONTEDERIACEÆ.

PONTEDERIA

cordata, L.

Ponds.

Infrequent.

HETERANTHERA

reniformis, Ruiz & Pav. S.

Wabash county, Schneck.

limosa, Vahl.

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SCHOLLERA

graminea, Willd.

In ponds and slow streams.

Frequent.

COMMELYNACEÆ.

COMMELYNA

erecta, L. S.

Wabash county, Schneck.

Virginica, L. C. & S.

Henderson county, (in sandy barrens); Mason, Mead; and southward.

Cayennensis, Richard. S.

Madison county, Hall; and southward.

TRADESCANTIA

Virginica, L.

Open woods and prairies.

Common.

pilosa, Lehm. C. & S.

Hancock county, Mead; and southward.

XYRIDACEÆ.

XYRIS

flexuosa, Muhl.

Calumet, Cook county, (rare), Babcock; Kankakee, Hill; Mason, Hall. Rare.

CYPERACEÆ.

CYPERUS

flavescens, L. S.

Low grounds. Jonesboro, Union county, Vasey.

diandrus, Torr.

Low grounds. Common.

erythrorhizos, Muhl.

River banks, throughout. Frequent.

inflexus, Muhl.

River banks, close to the water. Common.

acuminatus, Torr. C. & S.

Low grounds, from Henderson and Peoria counties southward. Rare.

phymatodes, Muhl.

Wet places. Frequent.

strigosus, L.

Low grounds. Common.

Michauxianus, Schultes.

Low grounds. Frequent.

Engelmanni, Steud.

Low grounds. McHenry county, Vasey; banks of Cahokia creek, St. Clair county, Engelmann.

Schweinitzii, Torr. C. & N.

Sandy river banks, from Mason county northward. Frequent.

filiculmis, Vahl.

Barrens. Frequent.

ovularis, Torr. C. & S.

Barrens. Peoria county, Brendel; and southward.

KYLLINGIA

pumila, Michx. C. & S.

Low grounds. Menard county, Hall; and southward.

DULICHIMUM

spathaceum, Pers.

Borders of ponds. Frequent.

FUIRENA

squarrosa, Michx. S.

Jonesboro, Union county, Vasey.

HEMICARPIA

subsquarrosa, Nees.

Sandy river banks, close to the water.

ELEOCHARIS

quadrangulata, R. Br. S.

St. Clair county, Brendel.

*obtus*a, Schultes.

Wet places.

Common.

Engelmanni, Steud.

Differs from the last in its cylindrical spikes, shorter bristles and always 2-left style. Mississippi bottoms opposite St. Louis, Engelmann.

var. *detonsa*, Gray.

Bristles wanting, or only their bases present. Spikes sometimes proliferous at base. Mississippi bottoms 1 mile south of Oquawka.

palustris, R. Br.

Wet places.

Common.

Wolfii, Gray.

"Perennial, with very slender creeping rhizomes in small, scattered tufts; culm a foot high, slender, pale-glaucous, two-edged, flat on one side, convex on the other, faintly striate on both, sheath with obliquely truncate hyaline opening; spike ovate-oblong, acute; scales oblong-ovate, obtuse, scarious, pale tinged with purple; style 3-parted; achenium obovate, somewhat shining, faintly costate with about 9 ribs, the spaces between the ribs transversely marked with dotted lines, tubercle small, depressed-truncate and with the center more or less beaked; bristles of the perigynium (always?) none."

Margins of ponds. Peoria county, Brendel; Fulton, Wolf; Menard, Hall.

compressa, Sullivant. C. & N.

Wet places, from Menard county northward.

intermedia, Schultes. C. & N.

With the last.

tenuis, Schultes.

Wet places.

Common.

acicularis, R. Br.

Margins of ponds.

Common.

SCIRPUS

pauciflorus, Lightfoot. N.

Wet places. McHenry county, Vasey.

cæspitosus, L. N.

McHenry county, Vasey.

pungens, Vahl.

Wet places.

Frequent.

validus, Vahl.

Ponds.

Common.

debilis, Pursh.

Hancock county, Mead; Menard, Hall.

supinus, L., var. *Hallii*, Gray.

Mason county, Hall.

fluviatilis, Gray.

C. & N.

Margins of ponds and streams, from Menard county northward.

atrovirens, Muhl.

Wet prairies.

Frequent.

polyphyllus, Vahl.

S.

Wet places. St. Clair county, Brendel; S. Ill., Vasey.

lineatus, Michx.

Low grounds. Common, except at the north.

Eriophorum, Michx.

Wet places.

Frequent.

ERIOPHORUM

Virginicum, L.

Near Chicago, Babcock.

polystachyon, L.

N.

Bogs. Common near Chicago, Babcock; Winnebago county, Bebb; McHenry, Vasey.

gracile, Koch.

N.

Bogs. Peoria co., Brendel; McHenry, Vasey.

FIMBRISTYLIS

spadicea, Vahl., var. *castanea*, Gray.

Sandy low grounds. Near Chicago, Babcock; Kankakee county, Hill; Henderson; St. Clair, Brendel. Rare.

laxa, Vahl.

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autumnalis, Rœm. & Schult.

Margins of streams and ponds, with *CYPERUS INFLEXUS* and *ERAGROSTIS REPTANS*.

capillaris, Gray.

Sandy barrens.

Scarce.

RHYNCHOSPORA

cymosa, Nutt.

Kankakee county, Hill.

alba, Vahl.

N.

Bogs. Peoria co., Brendel; McHenry, Vasey.

capillacea, Torr.

Elgin, Kane county, Vasey; St. Clair, Brendel.

glomerata, Vahl.

Near Chicago, Babcock; Kankakee co., Hill.

corniculata, Gray.

S.

Mound City, Pulaski county, Vasey.

SCLERIA

triglomerata, Michx.

Prairies.

Frequent.

CLADIUM

mariscoides, Torr. N.

Bogs. Cook county, Scammon in Herb. Bebb ;
McHenry, Vasey.

CAREX

polytrichoides, Muhl.

Low grounds. Scarce.

Steudelii, Kunth.

Near Chicago, and Elgin, Kane county, Vasey ;
and frequent southward.

siccata, Dew. C. & N.

Barrens. Menard county, Hall ; and northward.

disticha, Huds. C. & N.

Menard county, Hall ; and northward.

teretiuscula, Good. C. & N.

Wet prairies, from Fulton county northward.

var. major, Koch. N.

With the last in Winnebago county, Bebb.

decomposita, Muhl.

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vulpinoidea, Michx.

Low grounds. Common.

crus-corvi, Shuttleworth.

Wet places bordering woods and thickets.
Frequent.

stipata, Muhl.

Low grounds. Common.

conjuncta, Boott.

Low grounds. Scarce.

sparganioides, Muhl.

Low grounds. Frequent.

cephaloidea, (Dew.) Boott. C. & N.

Open grassy places. Fulton county, Wolf ; and
northward. Not so averse to animal manures as
most Carices, and hence spreading in top-dressed
meadows.—Bebb. Scarce.

cephalophora, Muhl.

Woods and fields. Frequent.

Muhlenbergii, Schk.

Barrens. Scarce.

rosea, Schk.

Moist woods and meadows. Frequent.

retroflexa, Muhl. S. ?

Moist woods and meadows, southward. (Wash-
ington county, Vasey ; Jackson, French.)

chordorhiza, Ehrh. N.

Cold bogs. McHenry county, Vasey.

sterilis, Willd. N.

Wet places. Peoria county, Brendel ; Kankakee,
Hill.

stellulata, L. C. & N.

Wet places. Menard co., Hall ; and northward.

var. scirpoides, Gray. C. & N.

With the typical form.

arida, Schw. & Torr.

Damp woods and meadows. Frequent.

scoparia, Schk.

Wet meadows. Common.

Bebbia, Olney. N.

Moist prairies. Winnebago county, Bebb—(and
along the great lakes and westward.)

lagopodioides, Schk.

Moist meadows and shady places. Common.

cristata, Schw.

Low grounds. Frequent.

var. mirabilis, Boott.

With the typical form. Frequent.

fenea, Willd., var. ? ferruginea, Bt.

Menard county, Hall ; Wabash, Schneck.

straminea, Schk.

Damp prairies and borders of woods. Common.

Vars. TYPICA, TENERA and FESTUCEA are
common ; var. CRAWEL in Winnebago county,
Bebb ; var. MEADII in Hancock county, Mead.

aquatilis, Wahl. N.

McHenry county, Vasey.

aperta, Boott.

Low prairies, &c. Frequent.

stricta, Lam.

Low grounds. Common.

crinita, Lam.

Low grounds. McHenry county, Vasey ; Han-
cock, Mead ; Jackson, French. Scarce.

limosa, L. N.

Bogs. Peoria county, Brendel.

Buxbaumii, Wahl.

Bogs. Not rare northward.

Shortiana, Dew. C. & S.

Swamps, from Peoria county southward.

aurea, Nutt. N.

Near Chicago, Babcock. Also the var. ANDRO-
GYNA, Olney.

- panicea*, L., var. *Meadii*, Olney.
Moist prairies. Infrequent.
- var. *Bebbii*, Olney. N.?
Winnebago county, Bebb; Chicago, Batcock.
- tetanica*, Schk.
Margins of lakes and streams. Frequent.
- Crawei*, Dew. N.
South-west of Hyde Park, Cook county, (rare),
Babcock.
- granularis*, Muhl.
Low grounds. Common.
- conoidea*, Schk.
Moist prairies. Scarce.
- grisea*, Wahl.
Moist woods. Common.
- Davisii*, Schw. & Torr.
Moist meadows and damp woods. Frequent.
- virescens*, Muhl. C. & S.
Woods, from Hancock county southward.
- triceps*, Michx. C. & S.
Woods and meadows, from Peoria county (Brendel)
southward.
- plantaginea*, Lam.
Rich woods. Washington county, French.
- Careyana*, Torr. S.
Rich woods. Marion county, Bebb; Jackson
and Union, Vasey, Brendel.
- platyphylla*, Carey.
Rich woods. McHenry county, Vasey.
- retrocurva*, Dew.
Elgin, Kane county, Vasey.
- digitalis*, Willd.
Peoria county, Brendel; southern Ills., Vasey.
- laxiflora*, Lam.
Open rich woods. Common.
- oligocarpa*, Schk. C. & S.
Woods. From Kankakee and Peoria counties
southward.
- Hitchcockiana*, Dew. C. & S.
Woods. Peoria county, and southward.
- pedunculata*, Muhl. N.
Elgin, Kane county, Vasey.
- umbellata*, Schk.
Rocky hillsides. Menard county, Hall; and
northward. Scarce.
- Emmonsii*, Dew.
Dry woody hillsides. Menard county, Hall, and
southward, Vasey, French. Rare.
- Pennsylvanica*, Lam.
Dry hillsides and barrens. Common.
- varia*, Muhl.
With the last. Frequent.
- Richardsonii*, R. Br. C. & N.
Prairies. Menard county, Hall; Peoria and
Fulton, Brendel, Wolf; Winnebago, Bebb.
Rare.
- pubescens*, Muhl.
Rich woods. Frequent.
- debilis*, Michx. S.
Southern Illinois, Vasey.
- Æderi*, Ehrh. N.
Chicago, Babcock; McHenry county, Vasey.
- filiformis*, L. N.
Bogs. Peoria county, Brendel; and northward.
(Winnebago and McHenry, Bebb, Vasey.)
- lanuginosa*, Michx.
Low grounds. Common.
- riparia*, Curtis.
Wet places. Infrequent.
- trichocarpa*, Muhl. C. & N.
Low grounds. Menard county, Hall; and north-
ward.
- var. *imberbis*, Gray. C. & N.
With the typical form.
- comosa*, Boott.
Wet places. Frequent.
- hystericina*, Willd.
Wet meadows. Common.
- tentaculata*, Muhl.
Moist prairies. Frequent.
- intumescens*, Rudge.
Wet places. Infrequent.
- Grayii*, Carey.
Damp, open woods along streams. Frequent.
In the Oquawka plant the fruit is "smooth
and shining," but other Illinois specimens have
a rough-beaked fruit. It is, however, easily dis-
tinguished from the last species by the "globose,
densely flowered spikes, the perigynia spreading
and reflexed."
- lupulina*, Muhl.
Common along streams and about ponds.

- lupuliformis*, Sartwell.
With the last. Peoria county, Brendel; Winnebago, Bebb; Chicago, Babcock.
- squarrosa*, L. C. & S.
Low grounds, from Henderson and Peoria counties southward. Common.
- stenolepis*, Torr. C. & S.
Wet places, from Menard county southward.
- retrorsa*, Schw.
McHenry and Winnebago counties, Vasey, Bebb; also in Wabash, Schneek. Probably rare, except at the north.
- gigantea*, Rudge. S.
Wabash county, Schneek.
- utriculata*, Boott.
Swamps. Frequent.
- monile*, Tuckerman.
Swamps. Infrequent.
- Tuckermani*, Boott. N.
Wet places, from Hancock county northward.
- bullata*, Schk.
Hancock county, Mead.
- longirostris*, Torr. N.
Rich woods, from Hancock county (Mead) northward. Scarce.

GRAMINEÆ.

LEERSIA

- Virginica*, Willd.
Damp woods. Common.
- oryzoides*, Swartz.
Margins of streams and ponds. Common.
- lenticularis*, Michx. C. & S.
River banks, from Peoria and Henderson counties southward.

ZIZANIA

- aquatica*, L.
Margins of ponds and sloughs. Common.

ALOPECURUS

- pratensis*, L.
Peoria county, Brendel.
- geniculatus*, L.
Wet meadows. Common near Oquawka, Henderson county; Marion, Bebb.

PHLEUM

- pratense*, L.
Fields, and escaped to roadsides. Common.

VILFA

- aspera*, Beauv.
Dry hills and barrens. Common.
- vaginæflora*, Torr.
With the last. Common.
- Virginica*, Beauv.
Fulton county, Wolf. (Determined by Prof. A. Wood.)

SPOROBOLUS

- heterolepis*, Gray.
Dry prairies and barrens. Frequent.
- cryptandrus*, Gray. N.
Sandy river banks and barrens. Common along the Mississippi at Oquawka; near Chicago, Babcock. Root perennial.

AGROSTIS

- perennans*, Tuckerm.
Damp woods. Infrequent.
- scabra*, Willd.
Prairies and barrens. Common.
- vulgaris*, With.
Damp meadows. Common.
- alba*, L.
With the last. Scarce.

CINNA

- arundinacea*, L.
Damp woods. Common.
- var. *pendula*, Gray. N.
Kankakee county, Hill; Elgin, Kane co., Vasey.

MUHLENBERGIA

- sobolifera*, Trin.
Open rocky woods. Infrequent.
- glomerata*, Trin. C. & N.
Bogs, from Menard county northward.
- Mexicana*, Trin.
Low grounds. Common.
- sylvatica*, T. & G.
Woods. Frequent.
- Willdenovii*, Trin.
Rocky woods. Common.
- diffusa*, Schreber.
Open woods. Frequent.

BRACHYELYTRUM

- aristatum*, Beauv.
Shaded rocky hillsides. Frequent.

CALAMAGROSTIS

Canadensis, Beauv.

Wet prairies and swamps. Common.

longifolia, Hook. C. & N.

Sandy barrens. Mason county, Hall; along the Mississippi above Oquawka; lake shore at Chicago, Babcock. Scarce.

arenaria, Roth. N-E.

Lake shore at Chicago, Babcock.

ORYZOPSIS

melanocarpa, Muhl.

Rocky woods. Peoria county, Brendel.

STIPA

spartea, Trin. C. & N.

Prairies and barrens, from Menard county northward. Common.

ARISTIDA

ramosissima, Engelm. S.

Dry prairies. St. Clair county, Brendel; Wabash, Schneck; Marion, (the var. UNIAKISTATA) Vasey.

dichotoma, Michx. C. & S.

Barrens. Hancock county, Mead; Fulton, Wolf; and southward.

gracilis, Ell. C. & S.

Barrens, from Hancock county southward.

stricta, Michx.

Mason county, Mead.

oligantha, Michx. C. & S.

Barrens, from Henderson county southward.

purpurascens, Poir. C. & S.

Fulton county, Wolf; Menard, Hall; and southward.

tuberculosa, Nutt.

Sandy prairies and barrens. Near Chicago, Babcock; and from Henderson county southward.

SPARTINA

cynosuroides, Willd.

River bottoms. Common.

BOUPELOUA

oligostachya, Torr. N.

Sandy prairies. Dixon, Lee county, Vasey.

hirsuta, Lagas. W.

Sandy prairies and barrens. From Lee county to Mason and Cass, and westward. Frequent.

curtipendula, Gray.

Prairies and barrens. Frequent.

var. aristosa, Gray.

With the typical form.

DACTYLOCTENIUM

Ægyptiacum, Willd.

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ELEUSINE

Indica, Gærtn.

C. & S.

Gardens, &c., from Henderson and Peoria counties southward.

LEPTOCHLOA

mucronata, Kunth.

S.

Mound City, Pulaski county, Vasey.

fascicularis, Gray.

C. & S.

Low grounds. Menard county, Hall; and southward.

TRICUSPIS

seslerioides, Torr.

C. & S.

Barrens, from Henderson and Peoria counties southward.

purpurea, Gray.

Sandy prairies and barrens, with BOUPELOUA HIRSUTA and PANICUM AUTUMNALE, from Henderson to Fulton (Wolf) and Mason (Mead) counties.

DIARRHENA

Americana, Beauv.

C. & S.

Rich woods, from Peoria county southward.

DACTYLIS

glomerata, L.

Fields and yards.

Frequent.

KÆLERIA

cristata, Pers.

Prairies and barrens. Washington co., French, and common northward.

EATONIA

obtusata, Gray.

In dry soil.

Frequent.

Pennsylvanica, Gray.

Moist woods and meadows.

Frequent.

MELICA

mutica, Walt.

Prairies and borders of woods.

Frequent.

GLYCERIA

Canadensis, Trin.

N.

Bogs. Kane and McHenry counties, Vasey.

nervata, Trin.

Low grounds.

Common.

<i>fluitans</i> , R. Br.	
Margins of ponds.	Common.
POA	
<i>annua</i> , L.	
Roadsides and waste places.	Frequent.
<i>compressa</i> , L.	
Roadsides, woods, &c., in dry soil.	Frequent.
<i>serotina</i> , Ehrhart.	
Low grounds.	Frequent.
<i>pratensis</i> , L.	
Common everywhere.	
<i>sylvestris</i> , Gray.	
Woods and meadows.	Infrequent.
<i>alsodes</i> , Gray.	
Woody hillsides. Hancock county, Mead.	
ERAGROSTIS	
<i>reptans</i> , Nees.	
Margins of streams and ponds, close to the water.	
<i>poaeoides</i> , Beauv.	
Sandy roadsides, river banks, &c.	
<i>var. megastachya</i> , Gray.	
With the last and more common.	
<i>pilosa</i> , Beauv.	
Sandy waste places, river banks, &c.	Common.
<i>Frankii</i> , Meyer.	
River banks, throughout.	Frequent.
<i>tenuis</i> , Gray.	
Sandy barrens, from Henderson co. to Menard ; Wabash, Schneck.	C. & S. Scarce.
<i>capillaris</i> , Nees.	
Sandy barrens.	Frequent.
<i>pectinacea</i> , Gray.	
And var. <i>SPECTABILIS</i> , Gray.	Common in sandy barrens.
FESTUCA	
<i>tenella</i> , Willd.	
Common in dry grounds.	
<i>elatio</i> r, L.	
Meadows.	Scarce.
<i>nutans</i> , Willd.	
Open woods and prairies.	Common.
BROMUS	
<i>secalinus</i> , L.	
Fields.	Common.

<i>racemosus</i> , L.	
Fields.	Scarce.
<i>Kalmii</i> , Gray.	
Prairies, from Fulton county northward.	C. & N.
<i>ciliatus</i> , L.	
Woody hillsides.	Common.
UNIOLA	
<i>latifolia</i> , Michx.	
Rich woods on hillsides. Marion county, Bebb ; and southward.	S.
PHRAGMITES	
<i>communis</i> , Trin.	
River bottoms and swamps.	Common.
ARUNDINARIA	
<i>macrosperma</i> , Michx.	
Jackson and Union counties, French.	S.
<i>tecta</i> , Muhl.	
River banks. Wabash county, Schneck ; Union. Wolf ; and southward.	S.
LEPTURUS	
<i>paniculatus</i> , Nutt.	
Open grounds and salt licks in Hancock county. Mead.	W.
TRITICUM	
<i>repens</i> , L.	
Reported only from the northern counties, where it is common.	
<i>caninum</i> , L.	
McHenry county, Vasey.	N.
HORDEUM	
<i>jubatum</i> , L.	
Sandy prairies.	Infrequent.
<i>pratense</i> , Huds.	
Prairies. From Peoria and Henderson counties southward.	C. & S.
ELYMUS	
<i>Virginicus</i> , L.	
River banks.	Common.
<i>Canadensis</i> , L.	
And var. <i>GLAUCCIFOLIUS</i> , Gray.	Common.
<i>striatus</i> , Willd.	
Borders of woods.	Infrequent.
GYMNOSTICHUM	
<i>Hystrix</i> , Schreb.	
Rich woods.	Frequent.

DANTHONIA

spicata, Beauv.

Dry grounds.

Infrequent.

TRISTETUM

palustre, Torr.

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HOLCUS

lanatus, L.

Moist meadows. Adams county. Mead.

HIEROCHLOA

borealis, R. & S.

N.

Wet prairies. Grundy county. Brendel; and northward.

PHALARIS

arundinacea, L.

Wet places.

Frequent.

MILIUM

effusum, L.

N.

Elgin, Kane county, Vasey.

PASPALUM

fluitans, Kunth.

S.

Swamps. St. Clair county, Brendel; and southward.

Walterianum, Schultes.

S.

St. Clair county, Brendel

setaceum, Michx.

C. & S.

Sandy barrens. Kankakee county, Hill; and southward.

laeve, Michx.

S.

Damp grounds. Marion county, Bebb; and southward.

PANICUM

filiforme, L.

C. & S.

Sandy barrens, from Henderson county southward.

glabrum, Gaudin.

Waste places.

Common.

sanguinale, L.

Common in cultivated grounds.

anceps, Michx.

C. & S.

Low grounds. Peoria county, Brendel; and southward.

agrostoides, Spreng.

C. & S.

Wet places, from Hancock county southward.

proliferum, Lam.

C. & S.

River banks, damp fields, &c., from Henderson county southward.

capillare, L.

Common in dry soil.

autumnale, Bosc.

Sandy prairies and barrens. Lee county, Vasey; Kankakee, Hill; rather common from Henderson and Peoria to Menard; and probably southward. Root perennial!

virgatum, L.

Low grounds.

Common.

latifolium, L.

Rich woods.

Frequent.

clandestinum, L.

Moist woods and open damp places. Frequent.

microcarpon, Muhl.

S.

Woods. Marion county, Bebb; and southward.

pauciflorum, Ell. ?

Prairies.

Common.

dichotomum, L.

Dry or damp prairies and woods.

Common.

depauperatum, Muhl.

Dry prairies and barrens.

Common.

Crus-galli, L.And var. *HISPIDUM*. Damp grounds. Common.

SETARIA

verticillata, Beauv.

Cultivated grounds.

Infrequent.

glauca, Beauv.

Common in gardens and fields.

viridis, Beauv.

Cultivated grounds.

Frequent.

CENCHRUS

tribuloides, L.

Sandy river banks. Too common in many localities.

TRIPSACUM

dactyloides, L.

C. & S.

Low grounds. Along Spoon River in Fulton county, Mead; and southward.

ERIANTHUS

alopecuroides, Ell.

S.

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ANDROPOGON

furcatus, Muhl.

Prairies and barrens.

Common.

scoparius, Michx.

Dry prairies and barrens.

Common.

Virginicus, L.

S.

St. Clair county, Brendel : and southward.

SORGHUM

nutans, Gray.

Common in dry grounds.

EQUISETACEÆ.

EQUISETUM

arvense, L.

Damp places.

Common.

palustre, L.

N.

Wet places. Peoria county, Wolf, Brendel.

limosum, L.

In shallow water. Cass county, Mead : Peoria, Brendel : McHenry. Vasey.

Scarce.

lævigatum, Braun.

C. & S.

In dry or moist clay and sand, from Henderson and Peoria counties southward.

robustum, Braun.

C. & S.

River banks, from Peoria county southward.

hyemale, L.

Wet banks.

Frequent.

variegatum, Schleicher.

N.

Peoria county, Brendel.

scirpoides, Michx.

N.

Ringwood, McHenry county, Vasey.

FILICES.

POLYPODIUM

vulgare, L.

Sandstone cliffs of Og'e county, Bebb : common in Jackson and Union, French, Forbes.

incanum, Swartz.

S.

On trees and rocks. Jackson county, French : Wabash, Schneck ; and southward.

ADIANTUM

pedatum, L.

Rich woods.

Common.

PTERIS

aquilina, L.

Copses.

Common.

CHEILANTHES

vestita, Swartz.

S.

Rocks. St. Clair county, Brendel ; and southward.

lanuginosa, Nutt.

W.

Clefts of rocks. Near Galena, Brendel ; Pike county, Mead ; Jackson, French.

PELLÆA

gracilis, Hook.

In rocky ravines near the Kankakee river (rare) in Kankakee county, Hill.

atropurpurea, Link.

On dry rocks.

Infrequent.

ASPLENIUM

pinnatifidum, Nutt.

On rocks. Jackson and Union counties, French : Pope, Schneck.

Trichomanes, L.

S?

On shaded rocks. Jackson and Union counties, French ; Wabash, Schneck.

ebeneum, Ait.

Open rocky woods.

Scarce.

angustifolium, Michx.

Rich woods.

Scarce.

thelypteroides, Michx.

Rich woods. Peoria and Fulton counties, Brendel, Wolf ; Wabash, Schneck.

Rare.

Filix-fœmina, Bernh.

Rich woods.

Frequent.

CAMPTOSORUS

rhizophyllus, Link.

Shaded rocks, throughout, but

Scarce.

PHEGopteris

polypodioides, Fee.

Damp woods. Menard county, Hall.

hexagonoptera, Fee.

Rich woods.

Frequent.

ASPIDIUM

Thelypteris, Swartz.

Swamps.

Frequent.

Noveboracense, Swartz.

Swamps. E'gin, Kane county, Vasey ; Kankakee, Hill ; Wabash, Schneck.

Scarce.

spinulosum, Swartz.var. *intermedium*, Eaton.

Woods.

Infrequent.

Goldianum, Hook.

Rich woods. Peoria and Fulton counties, Brendel, Wolf ; Makanda, Jackson county, Forbes.

<i>marginale</i> , Swartz.		<i>Claytoniana</i> , L.	
Shaded rocky hillsides.	Searce.	Moist ravines.	Common.
<i>acrostichoides</i> , Swartz.		BOTRYCHIUM	
Moist, shady hillsides.	Infrequent.	<i>Virginicum</i> , Swartz.	
CYSTOPTERIS		Rich woods.	Frequent.
<i>bulbifera</i> , Bernh.		<i>lunarioides</i> , Swartz, var. <i>obliquum</i> .	
Shaded rocks.	Frequent.	Woods. S. Ill., Vasey. Schneck.	
<i>fragilis</i> , Bernh.		OPHIOGLOSSUM	
Rich woods on hillsides.	Common.	<i>vulgatum</i> , L.	
STRUTHIOPTERIS		Wabash county, (a single plant), Schneck.	
<i>Germanica</i> , Willd.		LYCOPODIACEÆ.	
Damp woods.	Infrequent.	LYCOPODIUM	
ONOCLEA		<i>lucidulum</i> , Michx. N.	
<i>sensibilis</i> , L.		Damp woods. Evanston, Cook county, Vasey ;	
Wet places.	Common.	Ogle, Bebb.	
WOODSIA		<i>Selago</i> , L. N.	
<i>obtusa</i> , Torr. S. ?		"Collected by J. W. Powell near Ottawa"—Vasey.	
Rocks. Marion co., Bebb : Wabash, Schneck ;		SELAGINELLA	
and southward.		<i>rupestris</i> , Spring.	
<i>Ilvensis</i> , R. Br. N.		Dry rocks and barrens. Henderson county ;	
Occurs sparingly on sandstone cliffs near Oregon,		Ogle, Bebb. Rare, or overlooked.	
Ogle county, Bebb.		<i>apus</i> , Spring.	
DICKSONIA		Low, shady places. Scarce.	
<i>punctilobula</i> , Kunze.		ISOETES	
Wabash county, Schneck.		<i>melanopoda</i> , J. Gay. C. & N.	
OSMUNDA		Wet prairies and ponds. Menard county, Hall :	
<i>regalis</i> , L.		Fulton. Wolf ; McHenry, Vasey.	
Wet woods.	Infrequent.	HYDROPTERIDES.	
<i>cinnamomea</i> , L.		AZOLLA	
Damp woods. Common near Chicago. Babcock ;		<i>Caroliniana</i> , Willd. C. & S.	
Kankakee county, Hill : Menard, Hall.		Ponds, from Henderson and Peoria counties	
		southward. Scarce.

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