

**CATALOGUE OF THE
PHAENOGAMOUS AND
VASCULAR CRYPTOGAMOUS
PLANTS OF INDIANA**

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Catalogue of the phaenogamous and vascular cryptogamous plants of Indiana by Various

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BY

EDITORS OF THE BOTANICAL GAZETTE,

CRAWFORDSVILLE, IND.

AND

PROF. CHARLES R. BARNES,

LAFAYETTE, IND.

CRAWFORDSVILLE, IND.

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1881.

PREFACE.

So far as we can ascertain this is the first attempt towards making a complete catalogue of the plants of Indiana, and this limits itself to the enumeration of Phanerogams and Vascular Cryptogams. The vast body of cryptogamous plants belonging to the State cannot be included, for they have not even been collected. The materials for this list have been accumulating for some time, at first under the direction of the State geological survey, but latterly as the times and means of the authors permitted. It is thought that the time has come for publication, not because the list is absolutely complete, but because it is so nearly complete that only publication can provoke further additions. We take this opportunity of urging all who can to furnish additions or corrections, as it is the intention from time to time to publish such material in the form of extra sheets to the *BOTANICAL GAZETTE*. Already several additions have been made to the parts published and in all probability the first sheet of "additions and corrections" will be very shortly issued.

Three lists of the plants of Jefferson county have been published and one of Gibson and Posey counties, but we know of no published list of the plants of any other part of the State. For this reason references to these counties will be more copious than to any others. The range of each species is briefly indicated, the counties from which it has been reported being named or grouped together in some general expression, such as "north," "south," etc. This is by no means to be understood as complete, but simply to give authenticated stations. We hope that much information in regard to extension of range will be received. When there is occasion to believe that a species is distributed throughout the whole State no range is given.

Although it is hardly necessary to give the topographical features of a State that is so well known, a few statements may be made to make clearer some points in the distribution of plants. The whole State is a plain sloping gradually towards the west and south-west, making the lowest point in the

south-western counties, lying between the Ohio and the mouth of the Wabash. These counties have an elevation above the sea of only 300 feet, while to the north and east the land rises to the height of 900 feet. The highest point of land is known as Weed Patch Hill, in Brown county, being 1147 feet above the sea. The northern part of the State is drained into Lake Michigan and is very level, the extreme north-western counties being but a part of the old lake basin. This makes them very sandy and there among a stunted and scanty growth of trees are to be found many plants peculiar to "barrens." A similar condition of things holds to a certain extent among the "knobs" of the southern part of the State. This peculiar range of hills, averaging a mile or more in width and 500 feet in height, begins on the Ohio river in Floyd county and trends north-west to the line between Washington and Clark, at that point turning to the east and then to the north, forming the boundary line between Washington on the west and Clark and Scott on the east. It was in this region that Dr. A. Clapp in the decade beginning with 1835, did much of his botanical work, and to his valuable collection this present catalogue is indebted for much material. The prairies are found in the western and northern counties and their characteristic plants can be readily recognized in the following list. These plants, however, are disappearing more rapidly than any others, for the rich prairie lands are now almost all under cultivation and the native flora, driven to the fence rows and railroads, leads but a precarious existence. Plants peculiar to rocky gorges or sterile soil are in much less danger of extermination. The splendid forests which originally covered the greater part of the State are rapidly disappearing, and in their place is springing up a new race of plants. Our characteristic forest trees are the poplar (*Liriodendron*), maple, ash, elm, black and white walnuts, oak, hickory, beech, sycamore. Some of these grow to very great size and many are the traditions of monster trees that once grew in various parts of the State. Along our rivers and railroads new species are continually appearing and such interlopers should be carefully watched and reported.

It will be seen that the flora of the State is readily divided into four groups, each marked by the physical aspect of the region in which it is found. These regions may be called "the river valleys," "the lake borders," "the prairies" and "the barrens." An examination of the stations given will enable the reader to easily recognize the characteristic plants of these very distinct regions.

As recorded at present our flora numbers 1432 species grouped under 577 genera. This represents only those plants whose occurrence can be authenticated by specimens. Some species were omitted of whose presence within our

limits we were reasonably certain, but it was the endeavor to strictly adhere to the idea that it is much easier and more honorable to add to a list than to subtract from it.

It remains to say a word in regard to our very useful friends. For the south-western counties we depended upon Dr. J. Schneck, of Mt. Carmel, Ill., who is in a most favored botanical region and who has already published in a State report a list of the plants of his own and neighboring counties. Some additions and corrections for this same region have been furnished by Mr. Robert Ridgway of the Smithsonian Institution, and will shortly appear. Rev. E. J. Hill, of Englewood, Ill., has contributed many species for the north-western counties and his kindness in furnishing a large list of plants has gone far towards making our catalogue complete. In Laporte Mr. W. C. Steele has been of much service. Mr. W. R. Dudley, of Ithaca, N. Y., has very materially aided us in Monroe county, several species being reported only by him. Mr. Ansil Moffatt, of Indianapolis, has done good work in Marion county as will appear by looking over the stations. Jefferson county has been most thoroughly "worked up" by the authors and Prof. A. H. Young, of Hanover. They have also explored much of Clark in connection with Prof. John F. Baird, of that county, and also Scott, Floyd and Washington. Two of the authors did a good season's work in Jasper, Laporte, St. Joseph, Elkhart and Noble. Explorations for several seasons have been made in Parke, Montgomery, Tippecanoe, Carroll and Cass and for one summer in Allen, Wabash, Huntington, Miami, White, Pulaski, Starke and Newton. By examining the map it will be seen that this work has been well distributed and this fact gives us considerable confidence that the present catalogue represents at least fairly the flora of the State.

It is to be hoped that additions to our list will be promptly reported that they may be put on permanent record at the earliest possible date.

THE AUTHORS.

October 1st, 1881.

CATALOGUE.

RANUNCULACEÆ.

- Clematis Viorna*, L. South.
Pitcherl. T. & G. Lower Wabash Valley.
Virginiana, L.
- Anemone cylindrica*, Gray. North.
Virginiana, L.
dichotoma, L. (*A. Pennsylvanica*, L.) North and Gibson.
nemorosa, L.
acutiloba, Lawson. (*Hepatica acutiloba*, DC.)
- Thalictrum anemonoides*, Mx.
diocum, L.
purpurascens, L.
Cornuti, L.
- Trautvetteria palmata*, Fisch. & Meyer. "Knobs" (*Dr. Clapp*).
- Ranunculus aquatilis*, L., var. *stagnatilis*, DC. North.
" var. *trichophyllus*, Gr.
multifidus, Ph. "Knobs." Wabash Valley.
alismæfolius, Geyer. South.
abortivus, L.
" var. *micranthus*, Gr. Gibson and Posey.
sceleratus, L. Tippecanoe.
recurvatus, Poir.
Pennsylvanicus, L. North-West.
fascicularis, Muhl.
repens, L.
- Myosurus minimus*, L. Gibson and Posey.
- Isopyrum biternatum*, T. & G.
- Caltha palustris*, L. Upper Wabash Valley and northward. "Knobs."
- Ooptis trifolia*, Salisb. "Knobs."
- Aquilegia Canadensis*, L.
vulgaris, L. Escaped south.
- Delphinium tricorne*, Mx.
Consolida, L. Escaped. Banks of Ohio River and Gibson.
- Hydrastis Canadensis*, L.
- Actæa alba*, Bigel.
- Cimicifuga racemosa*, Nutt.

MAGNOLIACEÆ.

- Magnolia acuminata*, L. Occasional in Ohio River Counties.
Liriodendron Tulipifera, L.

ANONACEÆ.

- Asimina triloba*, Dunal.

MENISPERMAEÆ.

- Cocculus Carolinus*, DC. Lower Wabash.
Menispermum Canadense, L.

BERBERIDACEÆ.

- Berberis vulgaris*, L. Jefferson (spontaneous?).
Caulophyllum thalictroides, Mx.
Jeffersonia diphylla, Pers. South along the Ohio River.
Podophyllum peltatum, L.

NYMPHÆACEÆ.

- Brasenia peltata*, Ph. Wabash Valley and northern lakes.
Nelumbium luteum, Willd. With the last.
Nymphaea tuberosa, Paine. With the last.
Nuphar advena, Ait.
 " var. *variegatum*. Lower Wabash. (*Dr. J. Schneck*)
sagittifolia, Ph. "Deeper ponds, Gibson Co. Have found this
 but once." (*Dr. J. Schneck*)

SARRACENIACEÆ.

- Sarracenia purpurea*, L. Northern swamps.

PAPAVERACEÆ.

- Papaver somniferum*, L. Spontaneous near dwellings.
Stylophorum diphyllum, Nutt. Rich woods.
Sanguinaria Canadensis, L.

FUMARIACEÆ.

- Dicentra Cucullaria*, DC.
 Canadensis, DC.
Corydalis flavula, DC.
 aurea, Willd. "Knobs."

CRUCIFERÆ.

- Nasturtium officinale*, R. Br. Jefferson.
 sessiliflorum, Nutt. Along the Ohio River.
 palustre, DC.
 " var. *hispidum*, Gr.
 lacustre, Gray. "Knobs." Lower Wabash.
Armoracia, Fries. Escaped.
Leavenworthia Michauxii, Torr. "Buffalo Lick," near Charlestown,
 Clark Co.
Dentaria diphylla, Mx. Jefferson.
 laciniata, Muhl. Very variable. (Vide Ind. Geol. Surv. Rep't.
 1874 and 1875.)

- Cardamine rhomboidea*, DC.
 " var. *purpurea*, Torr.
pratensis, L. Lake.
hirsuta, L.
Arabis Ludoviciana, Meyer. "Knobs."
lyrata, L. La Porte.
dentata, T. & G. Gibson.
laevigata, Poir.
Thelypodium pinnatifidum, Wats. (*Arabis hesperidoidea*, Gray.)
Barbarea vulgaris, R. Br. Jefferson.
Erysimum asperum, DC. var. *Arkansanum*, Gray. Prairies.
Sisymbrium officinale, Scop.
canescens, Nutt. Tippecanoe.
Brassica Sinapistrum, Boissier.
alba, Gray.
nigra, Koch.
Draba brachycarpa, Nutt. Gibson and Lake.
verna, L. Jefferson.
Camelina sativa, Crantz. Tippecanoe and Jefferson.
Capsella Bursa-pastoris, Mœuch.
Lepidium Virginicum, L.
Cakile Americana, Nutt.

CAPPARIDACEÆ.

- Polanisia graveolens*, Raf.
Cleome pungens, Willd.

VIOLACEÆ.

- Ionidium concolor*, Benth. & Hook. (*Solea concolor*, Ging.) Jefferson.
Viola lanceolata, L. Jefferson.
primulæfolia, L. Gibson.
blanda, Willd. Jefferson, Lake and "Knobs."
cucullata, Ait.
 " var. *palmata*, Gr. South.
 " " *cordata*, Gr. South.
sagittata, Ait. Jefferson and Lake.
delphinifolia, Nutt. Prairies.
pedata, L. Knobs.
canina, L., var. *sylvestris*, Regel. Jefferson and Lake.
rostrata, Muhl. Jefferson.
striata, Ait.
Canadensis, L.
pubescens, Ait.
 " var. *scabriuscula*, T. & G. Jefferson.
tricolor, L. Jefferson.
 " var. *arvensis*. Tippecanoe, Clark and Gibson.