

Indiana Plant Distribution Records, II. 1941

This is the second in the series of distribution records intended to keep Deam's "Flora of Indiana" up to date. Genera are listed in the same order as that used in the "Flora" and species are given in alphabetical order under their respective genera. Symbols following the species indicate herbaria where specimens are deposited, these being the same as those used in the "Flora" (pp. 11, 12). Species new for the state are listed in bold face type and these, together with new segregations or other taxonomic changes, are followed by literature references. Species concerning which there may be some doubt as to whether they will be able to establish themselves and become a part of the state flora are preceded with an asterisk.

The specimens here listed have been collected by the following collectors:—Butler University (B): Charles M. Ek, Ray C. Friesner, Scott McCoy, John E. Potzger, and Arian Evans; Deam Herbarium (D): Charles C. Deam, Ralph Kriebel, and R. M. Tryon, Jr.; DePauw University (DP): Winona Welch and Charles C. Deam; Huntington College (Hu): Fred A. Loew; Indiana University (IU): Helen Marsh; Purdue University (P): A. T. Guard; Tryon Private Herbarium (T): R. M. Tryon, Jr.; Wabash College (W): Leslie Lee.

The committee maintains a card file showing published distribution of each species within the state. Botanical workers needing such information may obtain distribution maps of any species recorded in the "Flora" or subsequently added in these reports by requesting same from the secretary of this committee.

SPECIES

Ophioglossum vulgatum, St. Joseph (T). *O. v. f. pseudopodium*, Porter (T). *Botrychium dissectum*, Howard (B). *B. d. var. obliquum*, Parke (W), Montgomery (W), Owen (T), Warrick (T), Harrison (T). *B. d. f. elongatum* (Gilbert and Haberer) Weatherby, Porter (T), Wells (T). Amer. Fern Jour. 25:50. *B. virginianum*, Bartholomew (B). *Osmunda regalis* var. *spectabilis*, Elkhart (B). *Cystopteris fragilis*, Vanderburgh (IU). *C. f. var. mackayii* Lawson, Parke (T). *Rhodora* 37:375. *Pteretis nodulosa*, Montgomery (W), Fountain (W). *Onoclea sensibilis*, Fulton (B), Howard (B), Dubois (B). *Dryopteris cristata*, Whitley (B). *D. cristata* X *spinulosa*, Porter (T). *D. hexagonoptera*, Marion (B). *D. spinulosa*, Montgomery (W), Fountain (W). *D. s. var. intermedia* X *marginalis* Benedict, Parke (T). Bull. Torr. Bot. Cl. 36:48. *Athyrium pycnocarpon*, Tippecanoe (B). *Camptosorus rhizophyllus*, Huntington (Hu), Tippecanoe (P). *Asplenium platyneuron*, Fountain (W). *Pellaea glabella*, Harrison (T). *Pteridium aquilinum* var. *latiusculum* (Desv.) Underw., Miami (B), Huntington (Hu). *Rhodora* 43:41.

Polypodium polypodioides var. *michauxiana*, Harrison (T). *Equisetum fluviatile*, Elkhart (B), Howard (B). *Lycopodium inundatum*, Fulton (D). *L. lucidulum*, Montgomery (W). *Selaginella apoda*, Kosciusko (B), Fulton (B). *Juniperus virginiana* var. *crebra*, Vanderburgh (IU). *Typha angustifolia*, Huntington (Hu). *Sparganium chlorocarpum*, Elkhart (B). *Potamogeton crispus*, Howard (B). *P. foliosus* var. *genuinus*, Howard (B), Tipton (B). *P. f.* var. *macellus*, Howard (B). *P. lucens*, Cass (B). *Najas guadalupensis*, Kosciusko (D). *Alisma subcordatum*, Wabash (B), Pulaski (B), Boone (B). *Sagittaria latifolia*, Clinton (B). *Bromus commutatus*, Wabash (B), Pulaski (B). *B. inermis*, Wabash (B), Tipton (B). *B. kalmii*, Elkhart (B). *B. latiglumis*, Boone (B). *B. purgans*, Madison (B), Starke (B). *B. secalinus*, Madison (B). *B. tectorum*, Grant (B). *Festuca elatior*, Wabash (B). *F. obtusa*, Vanderburgh (IU), Madison (B). *F. octoflora*, Harrison (B), Fulton (B). *Glyceria septentrionalis*, Vanderburgh (IU). *Poa annua*, Crawford (B), Miami (B). *P. compressa*, Vanderburgh (IU), Pulaski (B), Fulton (B). *P. pratensis*, Madison (B), Fulton (B). *P. sylvestris*, Vanderburgh (IU). *Eragrostis capillaris*, Perry (B), Warrick (B). *E. cilianensis*, Vanderburgh (IU), Wabash (B). *E. hypnoides*, DeKalb (D), Clinton (B). *E. spectabilis*, Harrison (B), Orange (B). *Diarrhena americana*, Carroll (B). *Uniola latifolia*, Putnam (DP). *Dactylis glomerata*, Fulton (B), Wabash (B), Grant (B), Madison (B). *Phragmites communis*, Huntington (Hu). *Triodia flava*, Brown (B), Grant (B), Kosciusko (D). *Triplasis purpurea*, Jasper (B), Starke (B). *Agropyron smithii*, Clinton (B), Wabash (B), Steuben (B), La Porte (B). *Elymus villosus*, Orange (B). *E. v. f. arkansanus*, Howard (B). *E. virginicus* var. *glabriflorus*, Tippecanoe (B). *Hystrix patula*, Vanderburgh (IU). *Hordeum jubatum*, Wabash (B). *Sphenopholis intermedia*, Madison (B). *S. obtusata* var. *pubescens*, Fulton (B). *Danthonia spicata*, Vanderburgh (IU). *Agrostis elliotiana*, Madison (B). *A. hyemalis*, Vanderburgh (IU), Tippecanoe (B), La Porte (B). *A. perennans*, Vanderburgh (IU). *Alopecurus aequalis*, Huntington (Hu), Grant (B). *Phleum pratense*, Vanderburgh (IU), Fulton (B), La Porte (B). *Muhlenbergia mexicana*, Boone (B), Vanderburgh (IU). *M. racemosa*, Kosciusko (B). *M. schreberi*, Clinton (B), Tipton (B). *M. sobolifera*, Morgan (B). *M. tenuiflora*, Jackson (B), Marion (B). *Sporobolus asper*, Crawford (B), Clinton (B), Wabash (B), Whitley (B). *S. vaginiflorus*, Vanderburgh (IU). *Oryzopsis pungens*, La Porte (B). *Stipa spartea*, Tippecanoe (B), Noble (B). *Aristida longespica*, Fulton (B). *Leptochloa filiformis*, Vanderburgh (IU). *Eleusine indica*, Vanderburgh (IU), Orange (B). *Leersia oryzoides*, Vanderburgh (IU). *L. virginica*, Vanderburgh (IU). *Digitaria filiformis*, Perry (B), Spencer (B). *D. ischaemum*, Vanderburgh (IU), Clinton (B), Howard (B). *D. sanguinalis*, Clinton (B). *Leptoloma cognatum*, Fulton (B). *Paspalum circulare*, Vanderburgh (IU). *P. pubescens*, Jackson (B), Scott (B), Vanderburgh (IU). *Panicum addisonii*, La Porte (B). *P. agrostoides*, Vanderburgh (IU), Dubois (B), Fulton (B). *P. albermarlense*, Kosciusko (B), Pulaski (B). *P. boreale*, Pulaski (D). Delete previous report in "Flora" for this species from Steuben. *P. capillare*, Orange (B), Harrison (B), Perry (B), Vander-

burgh (IU). *P. clandestinum*, Madison (B), Tipton (B), Tippecanoe (B). *P. columbianum*, La Porte (B). *P. deamii*, Porter (B). *P. depauperatum*, Pulaski (B), La Porte (B). *P. dichotomum*, Fulton (B). *P. flexile*, Vanderburgh (IU), Fulton (B). *P. gattingeri*, Kosciusko (B), Warrick (B). *P. huachucae*, Newton (B), Starke (D), Pulaski (B). *P. implicatum*, Miami (B), Wabash (B). *P. latifolium*, Fulton (B). *P. leibergii*, Starke (D). *P. linearifolium*, La Porte (B). *P. meridionale*, Pulaski (D). *P. microcarpon*, Starke (D). *P. philadelphicum*, Perry (B). *P. scribnerianum*, Wabash (B). *P. Spretum*, Steuben (D), (B). *P. tsugetorum*, Starke (B). *P. tennesseense*, Pulaski (B). *P. virgatum*, Miami (B). *Echinochloa crusgalli*, Vanderburgh (IU), Clinton (B). *Setaria italica*, Vanderburgh (IU), Pulaski (B). *S. lutescens*, Clinton (B), Harrison (B), Perry (B), Vanderburgh (IU). *S. viridis*, Orange (B), Vanderburgh (IU). *Andropogon scoparius*, Clinton (B). *Sorghastrum nutans*, Kosciusko (B). *Tripsacum dactyloides*, Clinton (B). *Hemicarpha micrantha*, Clinton (B). *Cyperus erythrorhizos*, De Kalb (D). *C. inflexus*, Vanderburgh (IU), Clinton (B). *C. esculentus*, Clinton (B). *C. rivularis*, Clinton (B), Miami (B), Fulton (B). *C. strigosus*, Vanderburgh (IU). *Scirpus atrovirens*, Vanderburgh (IU). *S. lineatus*, Elkhart (B). *S. validus*, Clinton (B). *Eleocharis obtusa*, Clinton (B), Wabash (B). *Bulbostylis capillaris* var. *crebra*, Jasper (B). *Rhynchospora capillacea*, Fulton (B). *R. glomerata* var. *minor* f. *discutiens*, Jasper (D). *Scleria pauciflora* var. *caroliniana*, Steuben (D), (B). *Carex albursina*, Grant (B). *C. amphibola*, Howard (B), Miami (B), *C. atherodes*, Cass (B). *C. bebbii*, Jasper (B). *C. brevior*, Tipton (B). *C. communis*, Miami (B). *C. crinita*, Grant (B), Tippecanoe (B). *C. cristatella*, Miami (B), Lagrange (B). *C. crus-corvi*, Vanderburgh (IU). *C. davisii*, Grant (B), Miami (B). *C. frankii*, Clinton (B). *C. granularis*, Tipton (B). *C. gravida*, Tippecanoe (B). *C. grisea*, Wabash (B), Kosciusko (B). *C. hirsutella*, Miami (B), Grant (B). *C. hirtifolia*, Kosciusko (B). *C. hyalinolepis*, Howard (B), Steuben (B). *C. jamesii*, Kosciusko (B). *C. lanuginosa*, Wabash (B). *C. laxiflora*, Grant (B). *C. lupuliformis*, Lagrange (B). *C. lupulina*, Wabash (B). *C. lurida*, Howard (B). *C. mukhlenbergii*, Wells (B). *C. normalis*, Tipton (B). *C. riparia* var. *lacustris*, Grant (B). *C. shortii*, Tipton (B). *C. siccata*, Cass (B). *C. squarrosa*, Cass (B), Grant (B). *C. stipata*, Tipton (B). *C. tribuloides*, Wabash (B). *C. typhina*, Grant (B). *C. vulpinoidea*, Grant (B). *C. viridula* f. *intermedia*, Whitley (B). *Acorus calamus*, Boone (B). *Peltandra virginica*, Kosciusko (B). *Arisaema atrorubens* f. *viride* (Engler) Fern., Crawford (B), Owen (B). *Rhodora* 42:252. *A. a. f. zebrina* (Sims) Fern. Crawford (B). *Rhodora* 42:252. *A. dracontium*, Vanderburgh (IU). *Commelina communis*, Vanderburgh (IU). *Tradescantia virginiana*, Cass (B). *Juncus dudleyi*, Wabash (B). *J. effusus* var. *solutus*, Miami (B). *J. macer*, Vanderburgh (IU). *J. torreyi*, Huntington (B). *Hemerocallis fulva*, Howard (B). *Allium canadense*, Grant (B), Wabash (B). *A. sativum*, Miami (B). *A. vineale*, Wabash (B), Vanderburgh (IU). *Erythronium albidum*, Huntington (Hu). *Camassia scillioides*, Huntington (Hu). *Asparagus officinale*, Howard (B). *Polygonatum*

canaliculatum, Wabash (B). *Trillium gleasoni*, Miami (B). *Smilax ecirrhata*, Howard (B), Tippecanoe (P). *S. herbacea*, Miami (B), Vanderburgh (IU). *S. h.* var. *lasioneura*, Miami (B), Clinton (B). *S. rotundifolia*, Vanderburgh (IU). *Hymenocallis occidentalis*, Vanderburgh (IU). *Dioscorea hirticaulis*, Miami (B). *D. villosa*, Wabash (B). *Iris virginica* var. *shrevei*, Wabash (B). *Sisyrinchium albidum*, Vanderburgh (IU). *Habenaria lacera*, Fulton (B). *Triphora trianthophora*, Franklin (D), Orange (D), (T). *Populus deltoides*, Vanderburgh (IU), Boone (B), Miami (B). *P. grandidentata*, Howard (B), Huntington (B). *P. heterophylla*, Vanderburgh (IU), Grant (B). *P. tremuloides*, Tippecanoe (P), Miami (B), Wabash (B). *Salix alba*, Howard (B). *S. amygdaloides*, Howard (B). *S. candida*, Fulton (B). *S. discolor*, Clinton (B), Howard (B). *S. d.* var. *latifolia*, Grant (B). *S. fragilis*, Howard (B), Miami (B). *S. nigra*, Vanderburgh (IU), Carroll (B). *S. petiolaris*, Pulaski (B). *S. sericea*, Fulton (B). *Juglans cinerea*, Howard (B). *J. nigra*, Vanderburgh (IU), Grant (B), Miami (B). *Carya cordiformis*, Vanderburgh (IU), Morgan (B), Tippecanoe (B), Huntington (B), Whitley (B). *C. laciniosa*, Howard (B). *C. ovalis*, Vanderburgh (IU), Howard (B). *C. ovata*, Vanderburgh (IU), Orange (B), Morgan (B), Whitley (B), Elkhart (B). *C. pecan*, Vanderburgh (IU). *C. tomentosa*, Crawford (B), Starke (D). *Carpinus caroliniana* var. *virginiana*, Boone (B). *Ostrya virginiana*, Boone (B), Huntington (B). *O. v. f. glandulosa*, Grant (B), Wabash (B), Miami (B). *Fagus grandifolia*, Vanderburgh (IU), Orange (B), Carroll (B), Howard (B), Miami (B). *Castanea dentata*, Orange (B). *Quercus alba*, Vanderburgh (IU), Orange (B), Huntington (B), Howard (B). *Q. bicolor*, Vanderburgh (IU), Howard (B), Grant (B), Whitley (B). *Q. borealis* var. *maxima*, Howard (B), Grant (B), Miami (B), Fulton (B), Whitley (D), (B), White (B). *Q. ellipsoidalis*, Wabash (DP), Kosciusko (DP). *Q. falcata* var. *pagodaefolia*, Vanderburgh (IU), Crawford (B). *Q. imbricaria*, Lagrange (B), (D). *Q. leana*, Perry (B), Cass (B). *Q. lyrata*, Vanderburgh (IU). *Q. macrocarpa*, Grant (B), Fulton (B), Lagrange (D), Howard (B). *Q. muhlenbergii*, Perry (B), Wabash (B). *Q. palustris*, Vanderburgh (IU), Crawford (B). *Q. shumardii* var. *schneckii*, Marion (B), Miami (B). *Q. velutina*, Vanderburgh (IU), Orange (B), Tipton (B), Miami (B). *Ulmus fulva*, Vanderburgh (IU). *U. racemosa*, Howard (B), Miami (B). *Celtis laevigata*, Vanderburgh (IU). *C. occidentalis*, Vanderburgh (IU). *C. o.* var. *canina*, Howard (B). *C. o.* var. *crassifolia*, Miami (B). *Humulus americanus*, Huntington (B). *Morus rubra*, Vanderburgh (IU), Grant (B), Huntington (B), Cass (B). **Papyrius papyrifera*, Vanderburgh (IU). See Flora, p. 1041. *Cannabis sativa*, Miami (B), La Porte (B). *Urtica procera*, Vanderburgh (IU), Huntington (B), Clinton (B). *Laportea canadensis*, Miami (B). *Pilea fontana*, Howard (B), Miami (B), Noble (B). *P. pumila*, Whitley (B). *Boehmeria cylindrica*, Miami (B). *Parietaria pennsylvanica*, Grant (B), Whitley (B). *Rumex acetosella*, Vanderburgh (IU), Miami (B), Wabash (B). *R. brittanica*, Vanderburgh (IU). *R. crispus*, Vanderburgh (IU), Tippecanoe (B), Grant (B). *R. verticillatus*, Grant (B). *Polygonum aviculare*, Whitley (B), Vanderburgh (IU). *P. buxiforme*, Clinton (B), Miami

(B), Whitley (B), Steuben (B). *P. coccineum*, Morgan (B), Clinton (B). *P. convolvulus*, Vanderburgh (IU), Huntington (B). *P. hydropiper* var. *projectum*, Clinton (B), Pulaski (B), Wabash (B), Noble (B). *P. hydropiperoides*, Vanderburgh (IU), Miami (B), Fulton (B). *P. lapathifolium*, Vanderburgh (IU), Fulton (B). *P. monspeliense*, Tippecanoe (B). *P. natans* f. *genuinum*, Pulaski (D). *P. neglectum*, Tipton (B), Tippecanoe (B). *P. orientale*, Vanderburgh (IU). *P. pennsylvanicum* var. *genuinum*, Vanderburgh (IU), Clinton (B). *P. p.* var. *laevigatum*, Vanderburgh (IU), Clinton (B), Carroll (B), Elkhart (B). *P. persicaria*, Vanderburgh (IU), Clinton (B). *P. sagittatum*, Elkhart (B), Miami (B). *P. scandens*, Clinton (B), Starke (B). *P. virginianum*, Miami (B), Whitley (B). *Chenopodium album*, Vanderburgh (IU), Clinton (B), Tipton (B), Howard (B), Whitley (B), Starke (B). *C. ambrosioides*, ssp. *eu-ambrosioides*, Vanderburgh (IU), Howard (B), Tippecanoe (B). *C. a. eu-a.* var. *anthelminthicum*, Howard (B). *C. berlandieri*, Howard (B). *C. botrys*, Miami (B), Starke (B). *C. gigantospermum*, Tipton (B). *C. standleyanum*, Howard (B), Tipton (B). *Kochia sieversiana* (Pall.) C. A. Meyer. Starke (B), (D). *Salsola pestifer*, Miami (B). *Amaranthus blitoides*, Tipton (B), Whitley (B). *A. graecizans*, Clinton (B). *A. hybridus*, Miami (B). *A. retroflexus*, Vanderburgh (IU), Clinton (B). *A. spinosus*, Vanderburgh (IU). *Acnida altissima*, Vanderburgh (IU). *Froelicha gracilis*, Miami (B). *Oxybaphus nyctagineus*, Clinton (B), Miami (B), Wabash (B), Whitley (B), Starke (B), La Porte (B). *Phytolacca americana*, Whitley (B). *Mollugo verticillata*, Vanderburgh (IU), Boone (B), Clinton (B). *Stellaria longifolia*, Wabash (B). *S. media*, Vanderburgh (IU). *Cerastium vulgatum* var. *hirsutum*, Vanderburgh (IU), Wabash (B). *C. v. h. f. glandulosum*, Perry (B). *Holosteum umbellatum* L., Porter (D), (F). Gray Man. 7ed. p. 384. *Arenaria serpyllifolia*, Wabash (B). *Paronychia fastigiata* var. *typica*, Vanderburgh (IU). *Agrostemma githago*, Vanderburgh (IU). *Silene antirrhina*, Vanderburgh (IU), Perry (B), Miami (B), Wabash (B), Elkhart (B). *S. a.* var. *divaricata*, Fulton (B), Lagrange (B). *S. dichotoma*, La Porte (D). *S. virginica*, Miami (B). *Ceratophyllum demersum*, Howard (B), Cass (B). *Anemone canadensis*, Miami (B), Wabash (B). *A. cylindrica*, Tippecanoe (B). *A. virginiana*, Fulton (B). *Clematis viorna*, Miami (B). *C. virginiana*, Boone (B), Clinton (B). *Myosurus minimus*, Carroll (P). *Ranunculus abortivus*, Vanderburgh (IU). *R. acris*, Howard (B). *R. flabellaris*, Vanderburgh (IU), Howard (B). *R. hispidus*, Miami (B). *R. pennsylvanicus*, Elkhart (B). *Thalictrum dasycarpum*, Wabash (B). *T. revolutum*, Wabash (B). *Menispermum canadense*, Vanderburgh (IU), Howard (B), Wabash (B). *Liriodendron tulipifera*, Miami (B), Fulton (B), Whitley (B). *Sassafras albidum*, Vanderburgh (IU), Brown (B), Elkhart (B). *Lindera benzoin* (*Benzoin aestivale*), Boone (B). See Rehder, Trees and Shrubs, 2ed. p. 259. *Sanguinaria canadensis*, Vanderburgh (IU), Crawford (B). *Stylophorum diphyllum*, Perry (B). *Corydalis flavula*, Vanderburgh (IU). *Lepidium campestre*, Grant (B). *L. densiflorum*, Wabash (B). *L. virginicum*, Miami (B), Vanderburgh (IU). *Lesquerella globosa* (Desv.) Wats., Posey (D). Gray Man. 7ed.

p. 424. *Thlaspi perfoliatum*, Perry (B), Harrison (B). *Sisymbrium altissimum*, Miami (B), Wabash (B). *S. officinale* var. *leiocarpum*, Cass (B), Tippecanoe (B). *S. thalianum*, Vanderburgh (IU). **Erucastrum gallicum*, Miami (B). See Flora, p. 1051. *Brassica juncea*, Miami (B). *B. kaber* var. *pinnatifidus*, Wabash (B). **B. napus*, Vanderburgh (IU). See Flora, p. 1052. *B. nigra*, Clinton (B). *Barbarea vulgaris*, Vanderburgh (IU). *Iodanthus pinnatifidus*, Grant (B). *Rorippa islandica* var. *microcarpa*, (Regel) Fern., Perry (B). *Rhodora* 42:271. *Armoracia aquatica*, Cass (B). *Cardamine bulbosa*, Vanderburgh (IU), Crawford (B). *C. pennsylvanica*, Vanderburgh (IU). *Dentaria laciniata*, Crawford (B). *Capsella bursa-pastoris*, Vanderburgh (IU). *Camelina microcarpa*, Vanderburgh (IU). *Draba brachycarpa*, Harrison (B). *D. verna*, Brown (D), Carroll (P), Porter (D), (F). *Arabis dentata*, Vanderburgh (IU). *A. pycnocarpa*, Howard (B). *Berteroa incana*, Lagrange (B), Pulaski (B). *Conringia orientalis*, Wabash (B). *Polanisia graveolens*, White (B), Starke (B). *Penthorum sedoides*, Harrison (B), Clinton (B). *Saxifraga virginicensis*, Harrison (B). *Parnassia glauca*, Huntington (Hu), Miami (B). *Liquidambar styraciflua*, Vanderburgh (IU), Crawford (B). *Hamamelis virginiana*, Grant (B). *Platanus occidentalis*, Vanderburgh (IU), Howard (B), Miami (B). *Physocarpus opulifolius*, Howard (B). *P. o.* var. *intermedius*, Lagrange (B). *Aronia melanocarpa*, Elkhart (B). *E. prunifolia*, Elkhart (B). *Amelanchier canadensis*, Perry (B). *Crataegus crusgalli*, Howard (B). *C. grandis*, Boone (B). *C. mollis*, Boone (B). *C. punctata*, Boone (B). *C. succulenta*, Miami (B). *C. viridis*, Vanderburgh (IU). *Rubus allegheniensis*, Vanderburgh (IU), Huntington (B), Wabash (B), Miami (B), Cass (B). *R. occidentalis*, Grant (B), Wabash (B). *Potentilla monspeliensis*, Vanderburgh (IU). *P. palustris*, Fulton (B). *P. recta*, Wabash (B), Tippecanoe (B). *Geum aleppicum* var. *strictum*, Elkhart (B). *G. vernum*, Vanderburgh (IU). *Filipendula rubra*, Huntington (Hu). *Agrimonia parviflora*, Howard (B), Wabash (B). *A. pubescens*, Clinton (B), Howard (B). *Rosa carolina*, Wabash (B). *R. rubiginosa*, Wabash (B). *R. suffulta*, Miami (B). *Prunus mahaleb*, Harrison (B). *P. scrotina*, Vanderburgh (IU), Whitley (B). *Cercis canadensis*, Miami (B). *Cassia hebecarpa*, Miami (B). *C. marilandica*, Vanderburgh (IU). *Gleditsia triacanthos*, Vanderburgh (IU), Howard (B), Miami (B), Clinton (B). *Gymnocladus dioica*, Vanderburgh (IU). *Medicago lupulina*, Clinton (B), Howard (B), Cass (B), Whitley (B). *M. sativa*, Vanderburgh (IU), Clinton (B), Tipton (B), Starke (B). *Melilotus alba*, Vanderburgh (IU), Clinton (B), Howard (B), Wabash (B). *M. officinalis*, Tippecanoe (B), Howard (B), Wabash (B). *Trifolium pratense*, Vanderburgh (IU), Clinton (B), Tipton (B), Grant (B). *T. procumbens*, Fulton (B). *Amorpha fruticosa*, Vanderburgh (IU). *Psoralea onobrychis*, Miami (B). *Lespedeza capitata* var. *velutina*, Elkhart (B), Starke (B). *L. stipulacea*, Vanderburgh (IU). *L. violacea*, Vanderburgh (IU), Miami (B), Elkhart (B), Lagrange (B). *Desmodium bracteosum*, Howard (B). *D. b.* var. *longifolium*, Clinton (B). *D. canadense*, Huntington (B). *D. canescens*, Howard (B). *D. dillenii*, Huntington (B). *D. illinoense*, Elkhart (B).

D. marilandicum, Cass (B). *D. paniculatum*, Vanderburgh (IU). *D. p.* var. *pubens*, Brown (B). *D. rotundifolium*, Fulton (B), Tippecanoe (B). *D. viridiflorum*, Brown (B). *Vicia americana*, Wabash (B). *V. angustifolia* var. *segetalis*, Vanderburgh (IU). *Amphicarpa bracteata* var. *comosa*, Clinton (B), Howard (B). *Strophostyles helveola*, Vanderburgh (IU). *Geranium bicknellii*, Fulton (B), St. Joseph (D), (ND). *G. pusillum*, Elkhart (B). *Oxalis europea*, Boone (B). *O. e.* var. *bushii* f. *subglabrata*, Clinton (B). *O. e.* f. *cymosa*, Howard (B). *O. stricta*, Howard (B), Wabash (B), Miami (B), La Porte (B). *Linum virginianum*, Lagrange (B). **Tribulus terrestris*, Grant (B), Miami (B), Tipton (B). See Flora, p. 1069. *Ptelea trifoliata*, Howard (B). *Acalypha ostryaefolia*, Vanderburgh (IU). *A. rhomboidea*, Clinton (B). *A. virginica*, Vanderburgh (IU), Putnam (DP). *Euphorbia corollata*, Wabash (B). *E. cyparissias*, Clinton (B). *E. dentata*, Tipton (B), Cass (B), Kosciusko (B). *E. humistrata*, Vanderburgh (IU), Warrick (D). *E. maculata*, Huntington (B). *E. supina*, Clinton (B), Huntington (B), Kosciusko (B), St. Joseph (MO). *Callitriche austini*, Vanderburgh (IU). *Rhus glabra*, Howard (B). X *R. pulvinata*, Whitley (B). *Evonymus atropurpureus*, Grant (B). *Acer negundo*, Vanderburgh (IU), Wabash (B). *A. nigrum* f. *pubescens*, Howard (B), Grant (B). *A. rubrum*, Miami (B), Fulton (B), Vanderburgh (IU). *A. saccharinum*, Vanderburgh (IU). *A. saccharum*, Vanderburgh (IU), Howard (B), Wabash (B). *Impatiens biflora*, Whitley (B). *Rhamnus lanceolata*, Huntington (Hu). *Ceanothus americanus*, Elkhart (B). *Vitis cinerea*, Grant (B). *V. labrusca*, Howard (B). *V. riparia*, Vanderburgh (IU). *V. vulpina*, Miami (B). *Ampelopsis cordata*, Vanderburgh (IU). *Abutilon theophrasti*, Vanderburgh (IU), Clinton (B). *Malva neglecta*, Boone (B). *Sida spinosa*, Vanderburgh (IU), Clinton (B), Boone (B), Miami (B). *Hibiscus militaris*, Vanderburgh (IU). *H. trionum*, Boone (B). *Hypericum boreale*, Wabash (B). *H. mutilum*, Miami (B), Elkhart (B). *H. perforatum*, Tipton (B). *H. tubulosum*, Dubois (B). *H. virginicum* var. *fraseri*, Fulton (B). *Helianthemum canadense*, Cass (B), Kosciusko (B). *Hybanthus concolor*, Miami (B). *Viola eriocarpa*, Howard (B). *V. sororia*, Vanderburgh (IU). *Passiflora lutea* var. *glabrifolia*, Parke (B). *Opuntia humifusa*, Tippecanoe (B), (P). *Lythrum alatum*, Miami (B). *L. salicaria*, Kosciusko (D). *Cuphea petiolata*, Vanderburgh (IU). *Rhexia virginica*, Elkhart (B). *Jussiaea diffusa*, Morgan (B), Tippecanoe (P). *Ludwigia alternifolia*, Vanderburgh (IU). *L. palustris* var. *americana*, Vanderburgh (IU), Boone (B), Miami (B), Whitley (B). *L. polycarpa*, La Porte (B). *Epilobium coloratum*, Wabash (B). *Oenothera laciniata*, Vanderburgh (IU), Miami (B), Tipton (B). *O. pycnocarpa*, Clinton (B), Carroll (B), Cass (B), Wabash (B), Elkhart (B), Starke (B). *O. rhombipetala*, Steuben (B). *Gaura biennis*, Howard (B). *Aralia nudicaulis*, Huntington (Hu). *Sanicula gregaria*, Whitley (B). *S. marilandica*, Miami (B). *Chaerophyllum procumbens*, Vanderburgh (IU). *Torilis japonicus*, Vanderburgh (IU). *Conium maculatum*, Wabash (B). **Spermolepis patens*, Tippecanoe (B). See Flora, p. 1078. *Zizia aurea*, Wabash (B). *Cicuta bulbifera*, Fulton (B). *Conioselinum chinense*, Lagrange (D), (B). *Angelica atropurpurea*,

Howard (B). *Oxypolis rigidior*, Pulaski (B). *Daucus carota*, Vanderburgh (IU), Boone (B). *Nyssa sylvatica* var. *typica*, Vanderburgh (IU), Grant (B), Kosciusko (B), Elkhart (B). *Cornus florida*, Miami (B), Fulton (B). *Pyrola elliptica*, Elkhart (D), (B). *P. rotundifolia* var. *americana*, Elkhart (B). *Vaccinium oxycoccus*, Elkhart (B). *V. vacillans*, Elkhart (B). *Hottonia inflata*, Vanderburgh (IU). *Samolus parviflorus*, Dubois (B), Clinton (B). *Lysimachia lanceolata*, Pulaski (B), Lagrange (B). *L. terrestris*, Fulton (B). *Diospyros virginiana*, Vanderburgh (IU), Putnam (DP), Howard (B). *Fraxinus americana*, Grant (B). *F. biltmoreana*, Marion (B). *F. lanceolata*, Vanderburgh (IU), Huntington (B), Elkhart (B). *F. nigra*, Whitley (B). *F. pennsylvanica*, Vanderburgh (IU). *F. quadrangulata*, Howard (B), Miami (B), Huntington (D). *Forestiera acuminata*, Vanderburgh (IU). *Sabatia campanulata* var. *gracilis*, Jasper (B). *Gentiana crinita*, Huntington (Hu). *G. procera*, Kosciusko (B). *G. quinquefolia* var. *occidentalis*, Howard (B), Whitley (B). *Swertia (Fraseria) carolinensis* (Walt.) Kunze, Howard (B), Whitley (B). See Amer. Midland Nat. 26:13. *Apocynum cannabinum*, Vanderburgh (IU), Miami (B), Wabash (B). *A. c.* var. *glaberrimum*, Clinton (B), Grant (B), Fulton (B). *A. c.* var. *pubescens*, Putnam (DP). *A. sibiricum* var. *farwellii*, Wabash (B), Tippecanoe (B). *Asclepias incarnata*, Boone (B), Clinton (B). *A. phytolaccoides*, Howard (B). *A. sullivantii*, Miami (B). *A. tuberosa*, Huntington (Hu). *Ampelamus albidus*, Vanderburgh (IU). *Cuscuta gronovii*, Kosciusko (B). *C. pentagona*, Vanderburgh (IU). *Convolvulus arvensis*, Howard (B). *C. japonicus*, Lagrange (D). *C. sepium*, Howard (B), Vanderburgh (IU). *Ipomoea hederacea*, Vanderburgh (IU), Clinton (B). *I. lacunosa*, Vanderburgh (IU). *I. pandurata*, Vanderburgh (IU), Huntington (B). *Phlox paniculata*, Boone (B). *Hydrophyllum appendiculatum*, Vanderburgh (IU). *Ellisia nyctelea*, Vanderburgh (IU). *Lappula echinata*, Huntington (B), Lagrange (B). *Hackelia virginiana*, Clinton (B). *Myosotis micrantha*, Porter (D). *Lithospermum arvense*, Vanderburgh (IU). *Echium vulgare*, Miami (B). *Verbena bracteata*, Grant (B). X *V. engelmannii*, Boone (B). *V. hastata*, Boone (B), Wabash (B), Carroll (B). *V. simplex*, Kosciusko (B). *V. stricta*, Howard (B). *V. urticaefolia*, Boone (B), Wabash (B). *V. u.* var. *leiocarpa*, Miami (B). *Phyla lanceolata*, Boone (B), Wabash (B). *Teucrium canadense* var. *virginicum*, Howard (B). *T. occidentale*, Clinton (B). *Isanthus brachiatus*, Kosciusko (B). *Scutellaria incana*, Miami (B). *S. lateriflora*, Pike (B). *S. parvula*, Tipton (B). *Marrubium vulgare*, Crawford (B). *Agastache nepetoides*, Vanderburgh (IU), Carroll (B), Miami (B). *A. scropulariaefolia*, Kosciusko (B), Lagrange (B). *Nepeta cataria*, Boone (B), Clinton (B), Carroll (B). *Glechoma hederacea*, Howard (B). *Prunella vulgaris* var. *lanceolata*, Boone (B). *Physostegia virginiana*, Huntington (Hu). *Lamium amplexicaule*, Vanderburgh (IU). *Leonurus cardiaca*, Carroll (B), Wabash (B), Grant (B). *Stachys hispida*, Miami (B). *S. palustris* var. *homotrichia*, Miami (B). *S. tenuifolia*, Boone (B). *S. t.* var. *aspera*, Vanderburgh (IU). *Monarda clinopodia*, Vanderburgh (IU). *M. fistulosa*, Huntington (B). *Blephilia hirsuta*, Cass (B), Kosciusko (B).

Hedeoma pulegioides, Boone (B), Tipton (B). *Lycopus americanus*, Vanderburgh (IU), Pike (B), Boone (B), Clinton (B), Wabash (B), Whitley (B). *L. rubellus*, Howard (B). *L. virginicus*, Boone (B), Wabash (B). *Mentha arvensis*, Wabash (B). **M. crispa* L., Howard (B). Gray Manual 7ed. p. 710. **M. longifolia* (L.) Huds., Marion (B), (D). Gray Man. 7ed. p. 710. *M. piperita*, Wabash (B). *M. spicata*, Whitley (B). *Physalis ambigua*, La Porte (B). *P. heterophylla*, Vanderburgh (IU), Parke (B), Tippecanoe (B). *P. pubescens*, Whitley (B), Miami (B). *P. subglabrata*, Vanderburgh (IU), Clinton (B), Miami (B), Wabash (B). *Solanum carolinense*, Vanderburgh (IU), Boone (B), Clinton (B), Wabash (B). *S. nigrum*, Vanderburgh (IU), Whitley (B). *Datura stramonium*, Clinton (B), Howard (B), Vanderburgh (IU). *Verbascum blattaria*, Miami (B), Vanderburgh (IU). *V. thapsus*, Vanderburgh (IU). *Linaria vulgaris*, Vanderburgh (IU), Clinton (B). *Chaenorrhinum minus*, Miami (B), Wabash (B), Kosciusko (B). *Scrophularia marilandica*, Clinton (B), Vanderburgh (IU), Wabash (B). *Penstemon digitalis*, Steuben (B), Tippecanoe (B). *Mimulus alatus*, Cass (B). *M. ringens*, Wabash (B), Clinton (B). *Gratiola virginiana*, Vanderburgh (IU). *Leucospora multifida*, Vanderburgh (IU). *Lindernia anagallidea*, Vanderburgh (IU). *L. dubia* var. *typica*, Clinton (B), Cass (B). *Veronica arvensis*, Vanderburgh (IU). *V. peregrina*, Perry (B). *V. scutellata*, Pulaski (D), (B). *Veronicastrum virginicum*, Miami (B), Huntington (B). *Gerardia purpurea*, Fulton (B). *Aureolaria virginica*, Fulton (B). *Melampyrum lineare*, var. *litifolium*, La Porte (B). *Campsis radicans*, Vanderburgh (IU). *Catalpa speciosa*, Vanderburgh (IU). *Orobanche ludoviciana* var. *genuina*, Vanderburgh (IU), Tippecanoe (P). *Epifagus virginiana*, Warren (P). *Utricularia resupinata*, Lagrange (B). *Ruellia caroliniensis*, Clinton (B). *R. strepens*, Vanderburgh (IU). *Dianthera americana*, Dubois (B), Boone (B). *Plantago aristata*, Vanderburgh (IU), Miami (B), Wabash (B), Elkhart (B). *P. lanceolata*, Vanderburgh (IU), Howard (B). *P. rugelii*, Vanderburgh (IU), Pike (B), Boone (B), Huntington (B). *P. r.* var. *asperula*, Miami (B). *P. virginica*, Carroll (P). *Diodia teres* var. *setifolia*, Miami (B). *Galium boreale* var. *intermedium*, Fulton (B). *G. concinnum*, Wabash (B). *G. tinctorium*, Fulton (B). *G. triflorum*, Grant (B). **G. verum*, Howard (B). See Flora, p. 1092. *Sambucus canadensis*, Vanderburgh (IU). *Viburnum affine*, Tippecanoe (D), (B). *Triosteum angustifolium*, Brown (B). *T. aurantiacum* var. *illinoiense*, Crawford (B). *T. perfoliatum*, Miami (B). **Valeriana officinalis* L., La Porte (D), Gray Man. 7ed. p. 762. *Echinocystis lobata*, Boone (B). *Sicyos angulatus*, Vanderburgh (IU). *Campanula americana*, Vanderburgh (IU). *Specularia perfoliata*, Fulton (B), Elkhart (B). *Lobelia inflata*, Boone (B), Miami (B). *L. siphilitica*, Boone (B). *Vernonia altissima*, Vanderburgh (IU), Clinton (B), Wabash (B), Huntington (Hu). *Eupatorium altissimum*, Clinton (B), Vanderburgh (IU). *E. fistulosum*, Howard (B). *E. maculatum*, Fulton (B). *E. perfoliatum*, Clinton (B), Wabash (B), Fulton (B). *E. purpureum*, Kosciusko (B), Whitley (B). *E. rugosum*, Vanderburgh (IU). *E. serotinum*, Cass (B). *Liatris cylindracea*, Tippecanoe (B). *Grindelia squarrosa*, Miami (B).

Solidago altissima, Whitley (B). *S. canadensis*, Elkhart (B). *S. c.* var. *gilvocanescens*, Pulaski (B). *S. gigantea*, Miami (B). *S. g.* var. *leiophylla*, Miami (B), Fulton (B). *S. graminifolia* var. *nuttallii*, Vanderburgh (IU), Whitley (B). *S. juncea*, Elkhart (B). *S. latifolia*, Clinton (B). *S. media*, Fulton (B). *S. nemoralis*, Vanderburgh (IU). *S. ohioensis*, Kosciusko (D), (B). *S. riddellii*, Huntington (Hu). *S. ulmifolia*, Huntington (B). *Aster cordifolius*, Miami (B). *A. lateriflorus*, Whitley (B). *A. l.* var. *angustifolius*, Whitley (B). *A. lucidulus*, Whitley (B). *A. pilosus*, Vanderburgh (IU). *A. praeltus*, Kosciusko (B). *A. p.* var. *angustior*, Fulton (B). *A. shortii*, Vanderburgh (IU). *Erigeron annuus*, Vanderburgh (IU), Fulton (B). *E. canadensis*, Vanderburgh (IU), Clinton (B), Cass (B), Wabash (B), Elkhart (B). *E. philadelphicus*, Vanderburgh (IU). *E. ramosus*, Vanderburgh (IU). *Gnaphalium obtusifolium*, Vanderburgh (IU). *G. purpureum*, Vanderburgh (IU). *Inula helenium*, Elkhart (B). *Polymnia canadensis*, Cass (B). *Silphium integrifolium*, Clinton (B). *Ambrosia elatior*, Vanderburgh (IU). *A. trifida*, Vanderburgh (IU). *Xanthium pennsylvanicum*, Vanderburgh (IU). *Rudbeckia triloba*, Clinton (B). *R. laciniata*, Clinton (B). *Ratibida pinnata*, Elkhart (B). *Helianthus annuus*, Vanderburgh (IU), Howard (B). *H. divaricatus*, Huntington (B). *H. decapetalus*, Starke (B). *H. giganteus*, Fulton (B). *H. maximiliani*, La Porte (B). *H. rigidus*, Clinton (B). *H. tuberosus*, Huntington (B). *Actinomeris alternifolia*, Huntington (B), Vanderburgh (IU). *Coreopsis palmata*, Tippecanoe (B), Kosciusko (B). *B. bipinnata*, Vanderburgh (IU), Kosciusko (B). *B. discoidea*, Vanderburgh (IU). *B. frondosa*, Vanderburgh (IU). *Galinsoga ciliata*, Vanderburgh (IU), Fulton (B). *Helenium autumnale*, Kosciusko (B), Clinton (B). *Anthemis arvensis*, Elkhart (B). *A. cotula*, Clinton (B). *A. nobilis*, Posey (D). *Achillea millefolium*, Vanderburgh (IU), Grant (B). *Matricaria matricarioides*, Kosciusko (B). *Chrysanthemum leucanthemum* var. *pinnatifidum*, Vanderburgh (IU), Grant (B). *Artemisia annua*, Vanderburgh (IU), Marion (B), Tipton (B). *A. caudata*, Clinton (B). *Erechtites hieracifolia*, Pulaski (B). *Cacalia atriplicifolia*, Clinton (B). *C. muhlenbergii*, Cass (B). *Senecio glabellus*, Howard (B). *Arctium minus*, Clinton (B). *Cirsium altissimum*, Cass (B), Clinton (B). *C. arvense*, Howard (B). *C. a.* var. *mite*, Howard (B). *C. discolor*, Clinton (B). *Cichorium intybus*, Vanderburgh (IU). *Krigia biflora*, Perry (B), Huntington (Hu). *Tragopogon pratensis*, Jasper (DP), Wabash (B), Elkhart (B). *Taraxacum palustre* var. *vulgare*, Vanderburgh (IU). *Sonchus arvensis* var. *glabrescens*, Howard (B). *Lactuca biennis* (Moench) Fern. (*L. spicata* of Flora), Kosciusko (D). *Rhodora* 42:300. *L. canadensis* var. *typica*, Vanderburgh (IU). *L. c.* var. *integrifolia*, Jasper (B). *L. c.* var. *i. f. angusta*, Tippecanoe (B). *L. saligna*, Vanderburgh (IU). *L. scariola*, Huntington (B). *L. villosa*, Vanderburgh (IU). *Pyrrhopappus carolinianus*, Vanderburgh (IU), Warrick (IU).

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