

Indiana Plant Distribution Records, III. 1942

This is a continuation of the series of reports of new distribution records intended to keep Deam's "Flora of Indiana" up to date. Beginning with this report three sections will be maintained, viz: "SPECIES," giving new county records with location of confirming specimens; "NOMENCLATORIAL CHANGES" in which an attempt will be made, within the limits and in the spirit of conservative taxonomy, to keep the "Flora" up to date in plant names as well as plant distribution, and "DELETIONS" in which known previous errors will be corrected.

Species

Genera are listed in the same order as that used in the "Flora" and species are given in alphabetical order in their respective genera. Symbols following the counties indicate herbaria where specimens have been deposited. Species, varieties or forms new for the state are given 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 by an asterisk.

The specimens here listed have been collected by the following collectors: Butler University (B): Charles M. Ek, W. C. Clifton, Charles C. Deam, Arian Evans, Ray C. Friesner, Scott McCoy, and John E. Potzger; Deam Herbarium (D): Charles C. Deam and Charles M. Ek; DePauw University (DP): Charles C. Deam and T. G. Yuncker; Franklin College (Fr.): Naomi Mullendore; Huntington College (Hu): Fred Loew; Indiana University (IU): Carol Groves, Jean Hartman, Edwin D. Hull, Joe Lipps, Dorothy Sanders, Paul Weatherwax and Helen M. Zeiner; University of Notre Dame (ND): Charles C. Deam; Purdue University (P): A. T. Guard; Wabash College (W): A. R. Bechtel and W. C. Leavenworth.

Other symbols used are: (E) Earlham College; (F) Field Museum; (G) Gray Herbarium; (H) Frederick Hermann, Private Herbarium; (I) University of Illinois; (MC) Scott McCoy, Private Herbarium; (N) U. S. National Herbarium; (NW) Northwestern University; (NY) New York Botanical Garden; (T) R. M. Tryon, Jr., Private Herbarium; (Wi) University of Wisconsin.

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.

Ophioglossum vulgatum, Jennings (B). *Botrychium virginianum*, Hendricks (B), Shelby (B). *Osmunda claytoniana*, Jefferson (B). *Cystopteris fragilis* var. *protrusa*, Hamilton (B), Hendricks (B), Shelby

(B). *Asplenium platyneuron*, Shelby (B). *Equisetum arvense*, Boone (B), Clinton (B), La Porte (B), Shelby (B). *E. laevigatum*, Boone (B), Clinton (B), Elkhart (B), Hamilton (B), Hendricks (B), Howard (B), Lagrange (B), Madison (B), Miami (B), Tipton (B). *E. praealtum*, Clinton (B), Tipton (B). *Lycopodium lucidulum*, Morgan (IU).

Potamogeton amplifolius, Howard (B). *Alisma subcordatum*, Hamilton (B), Shelby (B), Vanderburgh (IU). *Triglochin maritima*, Kosciusko (B).

Bromus commutatus, Hendricks (B), Jackson (B), Jennings (B). *B. inermis*, Tippecanoe (B). *B. japonicus*, Marion (B). *B. purgans*, Bartholomew (B), Hendricks (B), Shelby (B). *B. secalinus*, Carroll (B), Hancock (B), Hendricks (B), Jackson (B). *Festuca elatior*, Clinton (B). *F. obtusa*, Hancock (B), Hendricks (B). *F. rubra*, Jennings (B). *Glyceria grandis*, Howard (B). *G. septentrionalis*, Huntington (Hu), Cass (B). *G. striata*, Jennings (B). *Poa annua*, Elkhart (B), Jennings (B), Vanderburgh (IU). *P. chapmaniana*, Jackson (B). *P. compressa*, Clinton (B), Elkhart (B), Hancock (B), Hendricks (B). *P. pratensis*, Hancock (B), Jennings (B). *P. sylvestris*, Hendricks (B). *P. wolfii*, Montgomery (B).

Eragrostis cilianensis, Boone (B), Clinton (B), Madison (B), Shelby (B). *E. frankii*, Hendricks (B), Madison (B), Pulaski (B), Shelby (B). *E. hypnoides*, Shelby (B). *E. pectinacea*, Boone (B), Shelby (B). *Diarrhena americana*, Hendricks (B), Tipton (B). *Dactylis glomerata*, Hancock (B), Hendricks (B), Jackson (B), Jennings (B). *Triodia flava*, Elkhart (B), Hamilton (B), Marion (B), Shelby (B), Tipton (B). *Agropyron repens*, Carroll (B), Hamilton (B). *A. smithii*, Hamilton (B). **Aegilops cylindrica*, Tippecanoe (B). *Elymus canadensis*, Boone (B), Elkhart (B), Hamilton (B), Hendricks (B), Madison (B). *E. riparius*, Elkhart (B), Hendricks (B). *E. villosus*, Boone (B), Hendricks (B), Marion (B), Shelby (B). *E. virginicus*, Boone (B), Elkhart (B), Hancock (B), Hendricks (B), Huntington (Hu), Shelby (B). *E. v. var. glabriflorus*, Shelby (B). *E. v. var. jejunus*, Elkhart (B).

Sphenopholis intermedia, Hendricks (B), *S. nitida*, Hendricks (B). *S. obtusata*, Greene (IU), Montgomery (W). *Danthonia spicata*, Hendricks (B). *Calamagrostis inexpansa*, Steuben (B). *Agrostis alba*, Tipton (B). *A. perennans*, Hamilton (B). *A. scabra*, Cass (B), Hamilton (B), Howard (B), Jasper (B), Lagrange (B), Pulaski (B). *Cinna arundinacea*, Fountain (W), Huntington (Hu). *Alopecurus carolinianus*, Montgomery (W). *Phleum pratense*, Madison (B). *Muhlenbergia foliosa*, Hamilton (B), Tipton (B). *M. mexicana*, Owen (IU). *M. schreberi*, Boone (B), Huntington (Hu). *Sporobolus asper*, Huntington (Hu), Montgomery (W). *S. cryptandrus*, Elkhart (B). *S. neglectus*, Madison (B). *Brachyelytrum erectum*, Hamilton (B), Hendricks (B). *Aristida oligantha*, Marion (B), Tipton (B). *Leptochloa panicoides*, Lawrence (IU), Orange (IU). *Elyusine indica*, Boone (B), Hamilton (B), Hendricks (B), Shelby (B).

Phalaris arundinacea, Montgomery (W). *Leersia oryzoides*, Hendricks (B), Madison (B). *L. virginica*, Boone (B), Hendricks (B), Madison (B), Tipton (B). *Digitaria ischacumum*, Boone (B), Madison (B), Marion (B). *D. sanguinalis*, Boone (B), Hamilton (B), Madison (B). *Leptoloma cognatum*, Hamilton (B). *Paspalum pubescens*, Hendricks (B), Tippecanoe (P). *Panicum ashei*, Jennings (B). *P. bicknellii*, Bartholomew (B). *P. capillare*, Shelby (B). *P. clandestinum*, Fulton (B), Hendricks (B). *P. dichotomiflorum*, Clinton (B), Elkhart (B), Tipton (B). *P. gattingeri*, Hamilton (B), Madison (B). *P. huachucae*, Huntington (Hu). *P. latifolium*, Hendricks (B). *P. meridionale*, Steuben (B). *P. scribnerianum*, Hamilton (B), Jackson (B). *P. virgatum*, Elkhart (B), Hamilton (B). *Echinochloa crusgalli*, Elkhart (B), Hamilton (B). *Setaria italica*, Boone (B). *S. lutescens*, Boone (B), Elkhart (B), Shelby (B). *S. verticillata*, Marion (B). *S. viridis*, Boone (B), Hancock (B), Shelby (B). *Cenchrus pauciflorus*, Boone (B), Brown (B), Carroll (B), Elkhart (B), Hendricks (B), Shelby (B), Tipton (B), Vanderburgh (IU). *Andropogon furca'us*, Shelby (B). *A. scoparius*, Johnson (Fr). *Scorghum halpense*, Vanderburgh (IU).

Cyperus densicaespitosus Mattf. & Kuenth. Pflanzenr. 20:597. 1936 (*Kyllingia pumila*), Shelby (B). *C. strigosus*, Hamilton (B), Hendricks (B), Shelby (B), Tipton (B). *Scirpus acutus*, Miami (B). *S. americanus*, Hendricks (B). *S. atrovirens*, Boone (B). *S. lineatus*, Clinton (B), Tipton (B). *Eleocharis obtusa*, Tippecanoe (B). *E. tenuis* var. *verrucosa*, Boone (B), Cass (B). *Carex brevior*, Starke (D), Wabash (B). *C. buxbaumii*, Kosciusko (B). *C. conjuncta*, Grant (B). *C. emoryi*, Howard (B). *C. frankii*, Carroll (B), Elkhart (B).

Carex inflata var. *utricula'a* (*C. rostrata*, Rhodora 44:324), Steuben (B). *C. hyalinolepis*, Tipton (B). *C. intumescens*, DeKalb (B). *C. i.* var. *fernaldii* f. *ventricosa* Fern., cited in Rhodora 44:321-322. 1942 without county designation. *C. lacustris*, Elkhart (B), Miami (B). *C. laxiflora*, Elkhart (B). *C. leptalea*, Elkhart (B). *C. lurida*, Steuben (B). *C. molesta*, Tippecanoe (B). *C. muskingumensis*, Carroll (B), Marion (B). *C. normalis*, Kosciusko (B), Wabash (B). *C. pennsylvanica*, Pulaski (D). *C. plantaginea*, Owen (IU). *C. scoparia*, Cass (B). *C. sparganioides*, Brown (B), Hamilton (B). *C. subimpressa*, Montgomery (W). *C. substricta*, Elkhart (B). *C. viridula*, Elkhart (B). *C. v. f. intermedia*, Elkhart (B).

Symplocarpus foetidus, Owen (IU). *Arisaema atrorubens*, Hendricks (B). *A. a. f. virde*, Jefferson (B). *A. a. f. zebrina*, Hendricks (B), Jackson (B), Jennings (B). *Commelina communis*, Howard (B), Tippecanoe (B). *Juncus brachycarpus*, Pulaski (B). *J. dudleyi*, Marion (B). *J. gerardi*, Miami (B). *J. macer*, Grant (B). *J. torreyi*, Marion (B), Tippecanoe (B), Tipton (B). *Tofieldia glutinosa*, Kosciusko (B). *Melanthium virginicum*, Miami (B). *Uvularia grandiflora*, Hendricks (B). *Hemerocallis fulva*, Vanderburgh (IU). *Allium canadense*, Miami (B). *A. cernuum*, Hamilton (B), Marion (B). *A. sativum*, Elkhart (B). *A. tri-coccum*, Hamilton (B). *Nothoscordum bivalve*, Perry (IU). *Lilium michi-*

ganense, Huntington (Hu), Johnson (Fr). *Camassia scilliodes*, Martin (IU). *Asparagus officinalis*, Clinton (B), Elkhart (B). *Smilacina racemosa*, Shelby (B). *Polygonatum canaliculatum*, Hamilton (B). *P. pubescens*, Hendricks (B). *Trillium gleasoni*, Hendricks (B). *T. nivale*, Huntington (Hu). *T. recurvatum*, Hendricks (B). *T. r. f. luteum*, Hendricks (B). *Dioscorea villosa*, Hamilton (B). *Iris cristata*, Jennings (B). *I. virginica* var. *shrevei*, Vanderburgh (IU). *Sisyrinchium albidum*, Greene (IU). *Triphora trianthophora* var. *schaffneri* Camp, Rhodora 42:55. 1940, Parke (B), (D), (NY), Henry (NY), Hamilton (NY). *Spiranthes gracilis*, Newton (B). *Corallorrhiza wisteriana*, Bartholomew (Fr).

Saururus cernuus, Carroll (B), Johnson (Fr.). *Populus deltoides*, Shelby (B). *Salix cordata*, Tipton (B). *S. interior*, Clinton (B). Hendricks (B), Shelby (B), Tipton (B). *S. nigra*, Howard (B). *Juglans nigra*, Boone (B). *Carya laciniosa*, Boone (B), Hamilton (B), Shelby (B). *C. ovalis*, Hamilton (B). *C. ovata*, Boone (B). *Carpinus caroliniana* var. *virginiana*, Shelby (B). *Ostrya virginiana* f. *glandulosa*, Hamilton (B). *Corylus americana*, Huntington (Hu). *Betula nigra*, Johnson (Fr). *Fagus grandifolia*, Boone (B), Shelby (B). *Quercus alba*, Boone (B), *Q. bicolor*, Clinton (B). *Q. borealis* Ashe, Collected by C. C. Deam. See Flora, p. 380, Allen (D), Wells (B), (D), (DP, ND). *Q. b.* var. *maxima*, Boone (B), Hamilton (B), Hendricks (B), Shelby (B). *Q. ellipsoidalis*, Elkhart (D). *Q. falcata*, Vanderburgh (IU). *Q. imbricaria*, Elkhart (B), Hamilton (B). *Q. macrocarpa*, Boone (B), Shelby (B). *Q. muhlenbergii*, Madison (B), Shelby (B).

Ulmus americana, Boone (B), Shelby (B). *U. fulva*, Boone (B), Shelby (B). *Celtis occidentalis* var. *crassifolia*, Boone (B), Carroll (B), Shelby (B). *Morus rubra*, Madison (B). *Humulus americana*, Elkhart (B). *Urtica procera*, Shelby (B). *Laportea canadensis*, Carroll (B). *Pilea pumila*, Shelby (B), Tipton (B). *Parietaria pennsylvanica*, Boone (B), Hendricks (B), Shelby (B), Tipton (B). *Commandra richardsiana*, Hunting'on (Hu). *Asarum reflexum*, Hendricks (B). *Aristolochia serpentaria*, Bartholomew (B), Hendricks (B), Knox (B), (MC), Marion (B), (MC), Shelby (B). *Rumex acetosella*, Hancock (B). *R. altissima*, Tippecanoe (B). *R. crispus*, Cass (B), Carroll (B), Hancock (B). *Polygonum aviculare*, Elkhart (B). *P. buxiforme*, Boone (B), Carroll (B), Elkhart (B), Lagrange (B), Shelby (B), Tipton (B). *P. convolvulus*, Hendricks (B), Marion (B). *P. dumetorum*, Elkhart (B). *P. erectum*, Carroll (B). *P. hydropiper* var. *projectum*, Boone (B), Hamilton (B), Madison (B). *P. hydropiperoides*, Madison (B). *P. lapathifolium*, Elkhart (B), Hamilton (B). *P. neglectum*, Boone (B), Carroll (B), Clinton (B), Hamilton (B), Madison (B), Miami (B), Shelby (B). *P. pennsylvanicum* var. *laevigatum*, Jasper (B), Madison (B), Shelby (B), Starke (B), Tipton (B). *P. p.* var. *l. f. pallens*, Carroll (B), Hamilton (B), Shelby (B). *P. persicaria*, Boone (B), Elkhart (B), Hamilton (B), Hendricks (B). *P. punctatum*, Shelby (B). *P. scandens*, Shelby (B), Tipton (B). *P. virginianum*, Clinton (B), Shelby (B). *Fagopyrum esculentum*, Howard (B).

Chenopodium ambrosioides ssp. *euambrosioides*, Clinton (B), Tipton (B). *C. a.* ssp. *eua.* var. *anthelminthicum*, Elkhart (B). *C. berlandieri* ssp. *Zschackei*, Clinton (B), Howard (B), Whitley (B). *C. botrys*, Tipton (B). *C. gigantispermum*, Elkhart (B), Howard (B). *C. pratericola*, Clinton (B). *C. standleyanum*, Elkhart (B). *Atriplex patula* var. *hastata*, Tipton (B). *A. p.* var. *littoralis*, Clinton (B). *Cycloloma atriplicifolium*, Tipton (B). *Coriospermum hyssopifolium*, Elkhart (B). *Salsola pestifer*, Elkhart (B), Tipton (B). *Amaranthus blitoides*, Cass (B), Clinton (B). *A. hybridus*, Cass (B), Clinton (B), Tipton (B). *A. retroflexus*, Elkhart (B). *A. spinosus*, Wells (D). *Acnida altissima*, Cass (B), Shelby (B), Tipton (B). *Froelichia gracilis*, Elkhart (B), La Porte (B). *Oxybaphus nyctagineus*, Hamilton (B), Hendricks (B). *Phytolacca americana*, Hendricks (B). *Mollugo verticillata*, Cass (B), Hamilton (B). *Claytonia virginica*, Hamilton (B).

**Stelaria aquatica*, Hendricks (B). *S. pubera*, Hendricks (B). *Cerastium arvense*, Howard (B). *C. vulgatum* var. *hirsutum*, Elkhart (B). *C. v.* var. *h. f. glandulosum*, Jackson (B). *Paronychia fastigiata* var. *typica*, Shelby (B). *Holosteum umbellatum*, Montgomery (W). *Agrostemma githago*, Hendricks (B), Jackson (B). *Silene antirrhina*, Clinton (B), Hendricks (B). *S. eserei*, Elkhart (B). *S. cucubalus*, Hendricks (B). *S. stellata* Hendricks (B). *Lychnis alba*, Johnson (Fr), Miami (B), Porter (B). *Saponaria officinalis*, Boone (B). *Nuphar advena*, Huntington (Hu). *Delphinium ajacis*, Miami (B). *Anemone canadensis*, Clinton (B). *A. quinquefolia* var. *interior*, Howard (B). *A. virginiana*, Hamilton (B). *Clematis viorna*, Johnson (Fr). *C. virginiana*, Hamilton (B), Tipton (B). *Ranunculus abortivus* var. *typicus*, Clark (D), Fountain (Wi), Hendricks (B), Lawrence (Wi). *R. a.* var. *acrolasius* Fern. Rhodora 40:18. 1938. See Amer. Midland Nat. 27:512. 1942. Fountain (Wi). *R. recurvatus*, Jennings (B), (D). *R. repens* var. *villosus*, Cass (B). *T. revolutum*, Elkhart (B).

Podophyllum peltatum, Hendricks (B). *Menispermum canadense*, Hendricks (B). *Asimina triloba*, Hamilton (B), Madison (B). *Sassafras albidum*, Clinton (B). *Lindera benzoin*, Shelby (B). *Corydalis flavula*, Martin (IU). *Lepidium campestre*, Elkhart (B). *L. densiflorum*, Hendricks (B). *L. virginicum*, Boone (B), Clinton (B), Jackson (B), Jennings (B). *Sisymbrium altissimum*, Carroll (B), Clinton (B), Elkhart (B), Hendricks (B). *S. officinale*, Cass (B), Howard (B), Miami (B). *S. o.* var. *leiocarpum*, Hendricks (B), Jennings (B), Tipton (B). *S. thalianum*, Monroe (IU). **Erucastrum gallicum*, Howard (B), Grant (B). *Brassica juncea*, Cass (B), Elkhart (B), Howard (B). *B. nigra*, Boone (B), Carroll (B), Cass (B), Shelby (B), Tippecanoe (B), Tipton (B). *Rorippa islandica* var. *microcarpa*, Clinton (B), Hamilton (B), Shelby (B). *R. sessiliflora*, Monroe (IU). *Armoracea rusticana*, Elkhart (B). *Camelina microcarpa*, Marion (B). *Draba verna*, Elkhart (B), Marion (B), Vanderburgh (IU). *Decurainia pinnata* var. *brachycarpa*, Jackson (B). *Arabis laevigata*, Clinton (B), Elkhart (B). *Conringia orientalis*, Marion (B).

Polanisia graveolens, Brown (B), Cass (B), Clinton (B), Elkhart (B). *Drosera intermedia*, Hamilton (B). *Penthorum sedoides*, Hendricks (B), Hamilton (B), Huntington (Hu), Tipton (B). *Saxifraga pennsylvanica* ssp. *eupennsylvanica* Burns. Amer. Midland Nat. 28:142-147. 1942. Cass (B), Clark (N), Fountain (B), Hamilton (B), Howard (B), Lagrange (B), Lake (I), Marion (B), Marshall (N), Monroe (B), Montgomery (B), Porter (B), Wells (D), (N), White (B). *S. p.* ssp. *interior* var. *crassicarpa* (Johnson) Burns. loc. cit. Cass (B), Jasper (I), Lake (I), (Wi), Porter (I), Starke (B). *S. p.* ssp. *i.* var. *c. f. bracteata* Burns. loc. cit. Porter (Wi). *S. p.* ssp. *i.* var. *winnebagoensis* (Johnson) Burns loc. cit. Lake (NW). *Mitella diphylla*, Hendricks (B). *Platanus occidentalis*, Shelby (B).

Spiraea alba, Hamilton (B), *Malus coronaria*, Howard (B). *Crataegus crusgalli*, Cass (B), Elkhart (B). *C. mollis*, Cass (B), Howard (B). *C. pedicellata*, Howard (B). *C. punctata*, Elkhart (B). *Rubus hispidus*, Huntington (Hu). *R. occidentalis* f. *pallidus*, Crawford (B), Putnam (DP). *Fragaria virginiana*, Elkhart (B). *Potentilla recta*, Clinton (B), Crawford (B). *P. simplex* var. *typica*, Jennings (B). *Geum canadense*, Hancock (B). *G. laciniatum* var. *trichocarpum*, Marion (B). *Agrimonia pubescens*, Miami (B), Tipton (B). *A. rostellata*, Hamilton (B). *Rosa carolina*, Vanderburgh (IU). **R. gallica*, Howard (B). *R. palustris*, Madison (B), Vanderburgh (IU). *R. rubiginosa*, Huntington (Hu). *R. setigera* var. *tomentosa*, Madison (B). *Prunus hortulana*, Hendricks (B). *P. mahaleb*, Wabash (B). *P. nigra*, Huntington (Hu). *P. serotina*, Wabash (B).

Cassia fasciculata, Porter (B). *C. marilandica*, Huntington (Hu). *Gleditsia triacanthos*, Cass (B), Hamilton (B), Madison (B). *Gymnocladus dioica*, Carrol (B). *Medicago lupulina*, Bartholomew (B), Hamilton (B), Hendricks (B), Miami (B), Vanderburgh (IU). *M. sativa*, Hamilton (B), Miami (B), Tippecanoe (B). *Melilotus alba*, Hendricks (B), Tipton (B). *M. officinalis*, Carroll (B), Cass (B), Hendricks (B), Tipton (B). *Trifolium pratense*, Boone (B), Carroll (B), Miami (B). *T. repens*, Hendricks (B). *Psoralea tenuiflora*, Tippecanoe (B). *Robinia pseudoacacia*, Carroll (B), Hendricks (B). *R. viscosa*, Porter (IU). *Glycyrrhiza lepidota*, Miami (B). *Desmodium canescens*, Hamilton (B). *D. dillenii*, Boone (B), Hamilton (B). *D. glutinosum* (Muhl.) Wood (*D. acuminatum*), Elkhart (B), Hamilton (B), Tipton (B). *D. paniculatum*, Miami (B). *D. rotundifolium*, Elkhart (B). *Lespedeza capitata* var. *stenophylla* Bissell & Fernald. *Rhodora* 43:579. 1941. (*L. c.* var. *longifolia*), Jasper (G), Porter (G), White (G). *L. c.* var. *velutina*, Jasper (B), Porter (B). *L. c.* var. *vulgaris* T. & G. *Rhodora* 43:577. 1941. Lake (G). *Clitoria mariana*, Monroe (IU). *Amphicarpa bracteata*, Hamilton (B), Tipton (B). *A. b.* var. *comosa*, Hamilton (B). *Vicia villosa*, Brown (B).

Geranium carolinianum var. *confertiflorum*, Cass (B), Jennings (B), (D), Perry (B). *G. maculatum*, Jennings (B), (D). *G. robertianum*, Elkhart (B). *Oxalis europaea*, Boone (B), Carroll (B), Elkhart (B),

Hendricks (B). *O. e.* var. *bushii* f. *subglabrata*, Howard (B). *O. e.* var. *b.* f. *vestita*, Marion (B), Miami (B). *O. e.* f. *villicaulis*, Carroll (B), Clinton (B), Elkhart (B), Hamilton (B), Hancock (B), Howard (B), Tippecanoe (B), Tipton (B). *O. stricta*, Cass (B), Hendricks (B), Jennings (B). *O. violacea* var. *trichocarpa*, Clay (Wi), Franklin (Wi), Castanea 7:37. 1942. *Zanthoxylum americanum*, Hamilton (B). *Ptelea trifoliata*, Elkhart (B). *Polygala paucifolia* f. *alba* Wheelock. Mem. Torr. Bot. Cl. 2:142. 1891. Porter (D).

Croton monanthogynus, Hamilton (B), Hendricks (B). *Acalypha rhomboidea*, Shelby (B). *Euphorbia corollata*, Hamilton (B), Huntington (Hu). *E. cyparissias*, Elkhart (B), Miami (B). *E. dentata*, Clinton (B), Elkhart (B), Hendricks (B), Huntington (Hu), Jasper (B). *E. geyeri* Engelm. Rhodora 44:407. 1942. Lake (F), (G), (IU). *E. maculata*, Hamilton (B), Shelby (B). *E. marginata*, Elkhart (B). *E. pepplus*, St. Joseph (ND). *E. supina*, Boone (B), Carroll (B), Miami (B), Shelby (B). *E. vermiculata*, La Porte (B). *Floerkea proserpinacoides*, Monroe (IU). *Rhus radicans* f. *negundo* (Greene) Fern. Rhodora 43:594. 1941. Madison (G). *Ilex verticillata*, Huntington (Hu). *Celastrus scandens*, Hamilton (B). *Acer negundo*, Shelby (B). *Acer nigrum* f. *pubescens*, Cass (B), De Kalb (B), Kosciusko (B), Miami (B), Warren (B). *A. saccharinum*, Carroll (B), Huntington (Hu), Shelby (B). *A. saccharum*, Boone (B). *Aesculus glabra*, Elkhart (B).

Impatiens biflora, Huntington (Hu). *I. pallida*, Huntington (Hu). *Vitis aestivalis*, Huntington (Hu). *V. palmata*, Vanderburgh (IU). *V. vulpina*, Clinton (B). *Parthenocissus quinquefolia*, Vanderburgh (IU). *Tilia americana*, Boone (B). *Abutilon theophrasti*, Shelby (B), Tipton (B). *Malva neglecta*, Miami (B). *Sida spinosa*, Hamilton (B), Shelby (B). *Hibiscus trionum*, Clinton (B), Elkhart (B), Hendricks (B). *H. militaris*, Huntington (Hu). *H. ascyron*, Miami (B). *H. canadense*, Steuben (B). *H. perforatum*, Clinton (B), Hendricks (B), Johnson (Fr). *Viola eriocarpa*, Vanderburgh (IU). *V. e.* f. *leiocarpa*, Howard (B). *V. missouriensis*, Jennings (B). *Passiflora incarnata*, Knox (IU). *P. lutea* var. *glabrifolia*, Bartholomew (B), Shelby (B), Vanderburgh (IU). *Lythrum alatum*, Marion (B), Ohio (B), Shelby (B). *Decodon verticillatus*, Hamilton (B). *Ludwigia palustris* var. *americana*, Hendricks (B). *Oenothera laciniata*, Crawford (B). *Oe. pycnocarpa*, Boone (B), Hendricks (B), Tipton (B). *Oe. speciosa*, Clinton (B). *Circaea quadrisulcata* var. *canadensis*, Clinton (B).

Aralia nudicaulis, Elkhart (B). *A. racemosa*, Fountain (W). *A. spinosa*, Brown (B). *Panax quinquefolium*, Jennings (D). *Sanicula canadensis* var. *typica*, Boone (B), Fulton (B). *S. c.* var. *grandis*, Shelby (B). *S. gregaria*, Hendricks (B), Jennings (B). *Chaerophyllum procumbens*, Elkhart (B). *Conium maculatum*, Tippecanoe (B). *Taenidia integerrima*, Jennings (B). *Sium suave*, Hamilton (B), Madison (B). *Cryptotaenia canadensis*, Elkhart (B), Shelby (B). *Thaspium barbinode*, Boone (B), Elkhart (B). *Oxyopolis rigidior*, Elkhart (B), Huntington (B), Madison (B), Tipton (B). *Pastinaca sativa*, Clinton (B), Tippe-

canoe (B), Tipton (B). *Daucus carota*, Hendricks (B), Miami (B). *Cornus racemosa*, Jennings (B). *Epigaea repens*, Elkhart (B). *Samolus parviflorus*, Huntington (Hu), Shelby (B). *Lysimachia ciliata*, Tipton (B). *L. lanceolata*, Miami (B). *L. longifolia*, Johnson (Fr). *L. nummularia*, Huntington (Hu). *L. quadrifolia*, Montgomery (W). *Fraxinus americana*, Boone (B). *F. nigra*, Huntington (Hu). *F. quadrangulata*, Fountain (W), Hamilton (B).

Sabatia angularis, Johnson (Fr). *Obolaria virginica*, Putnam (DP). *Frasera carolinensis*, Huntington (Hu). *Apocynum androsaemifolium*, Huntington (Hu). *A. cannabinum*, Boone (B). *A. c.* var. *glaberrimum*, Boone (B), Hendricks (B), Shelby (B), Tippecanoe (B). *Asclepias incarnata*, Hamilton (B). *A. quadrifolia*, Jennings (B), (D). *A. syriaca*, Boone (B), Clinton (B), Hendricks (B), Tipton (B), Vanderburgh (IU). *A. tuberosa*, Greene (IU). *A. verticillata*, Boone (B), Hendricks (B). *Ampelamus albidus*, Cass (B), Miami (B). *Cuscuta campestris*, Clark (D), (DP). *C. cephalanthi*, Howard (DP). *C. obtusiflora* var. *glandulosa* Engelm. Mem. Torr. Bot. Cl. 18:128. 1932. Indiana Acad. Sci. Proc. 52: 1942 (1943). Coll. by C. C. Deam, White (DP), (D). *C. polygonorum*, Putnam (DP), Lawrence (DP). *Convolvulus arvensis*, Hamilton (B), Tippecanoe (B). *C. sepium* var. *americanus* Sims. Indiana Acad. Sci. Proc. 49:90. Kosciusko (D), Lagrange (D), La Porte (D), Steuben (D). *C. s.* var. *communis* Tryon, loc. cit. Allen (D), Lake (D), Marion (B), Ripley (D), Vigo (D), Whitley (D). *C. s.* var. *fraterniflorus*, loc. cit. Adams (D), Allen (D), Floyd (D), Cwen (D), Posey (D), Warrick (D), Wells (D). *C. s.* var. *repens* (L.) Gray, loc. cit. Bartholomew (D), Boone (B), Brown (D), Carroll (D), Clay (D), Dearborn (D), Greene (D), Hamilton (D), Hancock (D), Hendricks (D), Montgomery (D), Putnam (D), Shelby (D), Tipton (D), Vermillion (D), Wells (D), White (D). *C. spithameus*, Lawrence (D). *C. spithameus* var. *catesbianus* (Pursh) Tryon, loc. cit. Crawford (D), Noble (D), Orange (D), Perry (D), Pike (D). *Ipomoea hederacea*, Shelby (B). *I. pandurata*, Elkhart (B).

Phlox paniculata, Shelby (B). *Polemonium reptans*, Hendricks (B). *Hydrophyllum canadense*, Hendricks (B). *Cynoglossum officinale*, Hancock (B), Miami (B). *Lappula echinata*, Cass (B). *Hackelia virginiana*, Boone (B), Elkhart (B), Hendricks (B), Shelby (B). *Myosotis verna* Nutt. (*M. virginica*) Rhodora 43:636. 1941. Jennings (B). *Lithospermum arvense*, Monroe (IU). *Verbena bracteata*, Cass (B), Miami (B). *X V. engelmannii*, Carroll (B). *V. stricta*, Tipton (B). *V. urticaefolia*, Clinton (B), Hamilton (B), Hancock (B), Hendricks (B), Madison (B). *Phyla lanceolata*, Huntington (Hu), Tipton (B), Wayne (E).

Teucrium canadense var. *virginicum*, Clinton (B), Hendricks (B), Miami (B), Shelby (B), Tipton (B). *T. occidentale* var. *boreale*, Elkhart (B). *Scutellaria galericulata*, Hamilton (B). *S. lateriflora*, Hamilton (B), Hendricks (B). *S. nervosa*, Huntington (Hu). *S. ovata*, Johnson (Fr). *S. parvula*, Howard (B). *Marrubium vulgare*, Cass (B), Elkhart (B). *Agastache nepetoides*, Howard (B). *Prunella vulgaris* var. *lanceolata*, Hamilton (B). *Physostegia virginiana*, Hamilton (B).

Lamium amplexicaule, Elkhart (B). *Stachys palustris* var. *homotrichia*, Clinton (B). *S. riddellii*, Bartholomew (B). *S. tenuifolia*, Carroll (B), Elkhart (B), Shelby (B). *Salvia reflexa*, Howard (B). *Leonurus cardiaca*, Boone (B). *Blephilia hirsuta*, Johnson (Fr). *Hedeoma pulegioides*, Clinton (B), Shelby (B). *Lycopus americanus*, Hendricks (B). *L. rubellus*, Madison (B). *Mentha alopecurioides* Hull. Gray Man. 7 ed. p. 710. Coll. by C. M. Ek. Elkhart (B). *M. arvensis*, Hamilton (B), Monroe (IU). **M. longifolia* var. *undulata*, Miami (B), Porter (B). *M. piperita*, Clinton (B). *M. spicata*, Elkhart (B), Hendricks (B).

Nicandra physalodes, Shelby (B). *Lycium halimifolium*, Elkhart (B), Hamilton (B). *Physalis ambigua*, Boone (B). *P. heterophylla*, Hamilton (B), Miami (B). *P. subglabrata*, Elkhart (B), Hamilton (B), Hendricks (B), Madison (B), Shelby (B). *S. virginiana*, Tippecanoe (B). *Solanum carolinense*, Hamilton (B). *S. dulcamara*, Cass (B). *S. nigrum*, Clinton (B), Hendricks (B), Miami (B). *Datura stramonium*, Shelby (B). *Verbascum blattaria*, Clinton (B), Elkhart (B). *V. thapsus*, Boone (B), Hamilton (B). **Linaria macedonica* Griseb. Bailey Man. Cult. Plt. p. 675. Coll. by C. M. Ek. Elkhart (B), (D). *Chaenorrhinum minus*, Clinton (B), Hamilton (B). *Collinsia verna*, Brown (IU), Huntington (Hu), Owen (IU). *Scrophularia marilandica*, Boone (B), Elkhart (B), Hendricks (B), Huntington (Hu). *Chelone glabra* var. *linifolia*, Madison (B). *C. g.* var. *l. f. velutina*, Porter (B). *Penstemon digitalis*, Howard (B). *Mimulus alatus*, Carroll (B), Hendricks (B), Johnson (Fr), Shelby (B). *Gratiola neglecta*, Boone (B). *Leucospora multifida*, Marion (B), Shelby (B). *Lindernia dubia*, Shelby (B). *Veronica anagallis-aquatica* f. *anagalliformis*, Clinton (B), Shelby (B). *V. arvensis*, Jennings (B). *V. peregrina* var. *xalapensis*, Jennings (B). *Gerardia purpurea*, Hamilton (B). *G. tenuifolia* var. *typica*, Madison (B). *G. t.* var. *macrophylla*, Madison (B). *Aureolaria flava* var. *typica*, Elkhart (B). *Pedicularis lanceolata*, Madison (B).

Campsis radicans, Hamilton (B), Shelby (B), Tipton (B). *Ruellia carolinensis*, Marion (B). *R. strepens*, Clinton (B). *R. s. f. cleistantha*, Miami (B). *Dianthera americana*, Clinton (B), Shelby (B). *Plantago aristata*, Carroll (B), Hancock (B). *P. cordata*, Porter (F). **P. indica*, Elkhart (B). *P. lanceolata*, Bartholomew (B), Boone (B), Carroll (B), Hendricks (B). *P. major*, Elkhart (B). *P. rugelii*, Clinton (B), Tipton (B). *P. virginica*, Elkhart (B). *Houstonia purpurea*, Vanderburgh (IU). *Cephalanthus occidentalis*, Carroll (B), Huntington (Hu). *Galium aparine*, Hendricks (B). *G. concinnum*, Shelby (B), Tipton (B). *G. triflorum*, Shelby (B). *Diodia teres* var. *setifolia*, Cass (B), Tipton (B). *Viburnum molle*, Wayne (B), (D). *V. prunifolium*, Boone (B). *Triosteum aurantiacum*, Hamilton (B). *T. a.* var. *illinoense*, Jennings (B). *T. perfoliatum*, Hamilton (B), Huntington (Hu). *Symphoricarpos orbiculatus*, Cass (B). *Lonicera canadensis*, Elkhart (B). *L. japonica*, Vanderburgh (IU). *Valerianella intermedia*, Monroe (IU). *Dipsacus sylvester*, Boone (B), Hamilton (B). **Cucurbita foetidissima*. See Flora p. 1094. Coll. by E. D. Hull. Lake (IU). *Sicyos angulatus*, Cass (B). *Campanula americana*, Boone (B). *Specularia perfoliata*, Vanderburgh (IU). *Lobelia inflata*, Huntington (Hu), Shelby (B).

Vernonia altissima, Madison (B). *Eupatorium altissimum*, Elkhart (B). *E. maculatum*, Madison (B). *E. perfoliatum*, Huntington (Hu). *E. purpureum*, Boone (B), Elkhart (B), Miami (B). *E. rugosum*, Huntington (Hu). *E. serotinum*, Madison (B). *Kuhnia eupatorioides*, Elkhart (B). *Liatris cylindracea*, Elkhart (B). *L. scariosa* f. *benkei*, Jasper (B). *Solidago altissima*, Shelby (B). *S. caesia*, Hamilton (B), Huntington (Hu). *S. gigantea* var. *leiophylla*, Hamilton (B). *S. juncea*, Miami (B). *Aster cordifolius*, Tipton (B). *A. ericoides*, Miami (B). *A. macrophyllus*, Vanderburgh (IU). *A. novae-angliae*, Huntington (Hu). *A. paniculatus*, Tipton (B). *A. p.* var. *simplex*, Tippecanoe (B), Tipton (B). *A. pilosus*, Madison (B), Shelby (B). *A. praealtus*, Clinton (B). *A. p.* var. *angustior*, Miami (B).

Erigeron annuus, Hamilton (B), Shelby (B). *E. canadensis*, Miami (B), Tipton (B). *E. divaricatus*, Vanderburgh (IU). *E. philadelphicus*, Elkhart (B). *E. strigosus* (*E. ramosus*, see Nomenclatorial Changes), Clinton (B), Tippecanoe (B). *Silphium integrifolium*, Huntington (Hu). *S. perfoliatum*, Boone (B), Hendricks (B), Madison (B), Shelby (B). *Ambrosia coronopifolia*, Elkhart (B). *A. elatior*, Clinton (B), Elkhart (B), Hamilton (B), Madison (B). *A. trifida*, Cass (B). *Xanthium italicum*, Tipton (B). *Heliopsis helianthoides*, Clinton (B), Madison (B). *Eclipta alba*, Shelby (B). *Rudbeckia hirta*, Boone (B). *R. triloba*, Shelby (B). *Ratibida pinnata*, Miami (B). *Helianthus annuus*, Elkhart (B), Tipton (B). *H. decapetalus*, Tipton (B), Vanderburgh (IU). *H. divaricatus*, Tipton (B). *H. giganteus*, Miami (B), Newton (B). *H. grosseserratus*, Huntington (Hu). *H. microcephalus*, Hamilton (B). *H. mollis*, Clinton (B), Elkhart (B). *H. petiolaris*, Elkhart (B), Tippecanoe (B). *H. tuberosus*, Vanderburgh (IU).

Actinomeris alternifolia, Madison (B), Shelby (B). *Coreopsis tripteris* var. *deamii*, Elkhart (B). *Bidens bipinnata*, Tipton (B). *B. cernua*, Elkhart (B), Shelby (B). *B. comosa*, Shelby (B), Tipton (B). *B. coronata*, Madison (B). *B. frondosa*, Shelby (B), Tippecanoe (B). *B. vulgata*, Clinton (B), Hamilton (B), Howard (B), Shelby (B), Tippecanoe (B). *Helenium autumnale*, Huntington (Hu), Shelby (B). *Anthemis cotula*, Vanderburgh (IU). *Achillea millefolium*, Hendricks (B). *Matricaria matricarioides*, Hendricks (B), Jennings (B). *Tanacetum vulgare*, Brown (B). *Artemisia annua*, Shelby (B). **A. carruthii* Wood (see Flora, p. 1102), coll. by E. D. Hull. Lake (IU). *A. gnaphalodes*, Tippecanoe (B). *Erechtites hieracifolia*, Tipton (B). *Cacalia atriplicifolia*, Hamilton (B), Tipton (B). *C. muhlenbergii*, Hendricks (B). *C. suaveolens*, Hamilton (B), Tipton (B). *Senecio glabellus*, Marion (B). *Arctium minus*, Carroll (B).

Cirsium altissimum, Huntington (Hu), Miami (B). *C. arvense*, Clinton (B), Tipton (B). *C. a.* var. *mite*, Miami (B). *C. discolor*, Huntington (Hu), Marion (B). *C. muticum*, Huntington (Hu). *C. undulatum*, see Flora, p. 1104. Coll. by C. M. Ek. Elkhart (B), (D). *C. vulgare*, Miami (B). **Centaurea vochinensis*, Shelby (B), (D). *Cichorium intybus*, Elkhart (B), Hamilton (B), Johnson (Fr), Marion

(B), Ohio (B), Shelby (B). *Krigia biflora*, Jennings (B). *Tragopogon porrifolius*, Miami (B). *T. pratensis*, Clinton (B), Hendricks (B). *Taraxacum laevigatum*, Vanderburgh (IU). *T. palustre* var. *vulgare*, Elkhart (B), Hendricks (B). *Sonchus oleraceus*, Elkhart (B), Miami (B). *Lactuca canadensis* var. *typica*, Carroll (B). *L. c.* var. *integrifolia*, Boone (B). *L. floridana*, Cass (B). *L. saligna*, Carroll (B), Cass (B), Hamilton (B). *L. scariola*, Hamilton (B), Hendricks (B). *L. s.* var. *integrata*, Carroll (B), Miami (B). *L. villosa*, Miami (B). *Hieracium canadense*, Cass (B).

Nomenclatorial Changes

The following changes in names of Indiana plants are considered by the committee to be likely of acceptance by taxonomists generally. Other published changes have recently appeared in the literature but are temporarily withheld from this list awaiting further evidence of their merit or likelihood of general acceptance.

Potamogeton panormitanus vars. *major* and *minor* to *P. pusillus* L. *Rhodora* 43:528. 1941.

Cyperus ferruginescens Boeckl. to *C. odoratus* L. Checklist Plants Washington-Baltimore Area, p. 22. 1941.

Cyperus filiculmis var. *macilentus* to *C. filiculmis* Vahl. Plants Washington-Baltimore Area, p. 22. 1941.

Cyperus inflexus to *C. aristatus* Rottb. loc. cit.

Cyperus mesochorus to *C. schweinitzii* Torr. *Rhodora* 44:58. 1942.

Cyperus ovularis to *C. o.* var. *sphaericus* Boeckl. *Rhodora* 44:81-83. 1942.

Cyperus strigosus var. *multiflorus* to *C. deamii* O'Neill. *Rhodora* 44:81-83. 1942.

Kyllingia pumila to *Cyperus densicaespitosus* Mattf. & Kuenth. *Pflanzenr.* 20:597. 1936.

Carex alata Torr. to *C. alata* T. & G. *Rhodora* 43:334. 1941.

Carex jamesii Schwein to *C. jamesii* T. & G. *Rhodora* 43:334. 1941.

Carex lasiocarpa to *C. l.* var. *americana* Fern. *Rhodora* 44:304. 1942.

Carex riparia var. *lacustris* to *C. lacustris* Willd. *Rhodora* 44:319-321. 1942.

Carex rostrata to *C. inflata* var. *utriculata* (Boott) Druce. *Rhodora* 44:324-331. 1942.

Lemna cyclostasa to *L. valdiviana* Philippi. *Castanea* 6:86. 1941.

Carya pecan to *C. illinoensis* (Wang.) K. Koch. *Jour. Arnold Arboretum* 22:571. 1941.

Ulmus racemosa to *U. thomasi* Sarg. *Rehder, Trees and Shrubs* 2ed. 190. 1940.

Desmodium acuminatum to *D. glutinosum* (Muhl.) Wood. Wood's Classbook 1845. *Rhodora* 44:279-280. 1942.

Desmodium glabellum to *D. humifusum* Beck. Plt. Wash.-Balt. Area, p. 80. 1940.

Lespedeza capitata var. *longifolia* to *L. c.* var. *stenophylla* Bissell & Fernald. *Rhodora* 43:579. 1941.

Geranium bicknellii previously changed to *G. nemorale* var. *bicknellii*, restore to *G. bicknellii* Britt. *Rhodora* 44:91. 1942.

Hibiscus moscheutos to *H. palustris* L. *Rhodora* 44:278. 1942.

Hibiscus palustris to *H. moscheutos* L. *Rhodora* 44:278. 1942.

Cornus asperifolia to *C. drummondii* Meyer. Amer. Midland Nat. 27:259-261. 1942.

Convolvulus repens to *C. sepium* var. *repens* (L.) Gray. *Rhodora* 41:421. 1939.

Myosotis virginica to *M. verna* Nutt. *Rhodora* 43:636-637. 1941.

Viburnum pubescens vars. *deamii* and *indianense* to *V. dentatum* var. *deamii* (Rehd.) Fern. *Rhodora* 43:649. 1941.

Aster exiguus to *A. ericoides* var. *prostratus* (Kuntze) Blake. *Rhodora* 32:138. 1930.

Aster junceus to *A. junciformis* Rydb. Amer. Midland Nat. 26:411. 1941.

Aster oblongifolius to *A. o.* var. *angustatus* Shinnars. Amer. Midland Nat. 26:418. 1941.

Erigeron ramosus to *E. strigosus* Muhl. Plt. Wash.-Balt Area, p. 101. 1941.

Deletions

The following deletions should be made from the state flora catalog. *Spermolepis inermis*, Cass: report should have been Tippecanoe. *Aster oblongifolius* var. *rigidulus*, Tippecanoe: drop from flora.

Additional Species Added to the Deam Herbarium

The following species previously reported in other herbaria for certain counties have been added to the Deam Herbarium since the last report.

Poa autumnalis, Jefferson. *Alopecurus carolinianus*, Jennings. *Eragrostis hypnoides*, De Kalb. *Setaria lutescens*, Kosciusko. *Cyperus erythrorhizos*, De Kalb. *Quercus borealis* var. *maxima*, Whitley. *Q. imbricaria*, Lagrange. *Q. macrocarpa*, Lagrange. *Gentiana puberula*, Newton. *Agastache scrophulariaefolia*, Kosciusko. *Solidago speciosa*, Newton.

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