

## Indiana Plant Distribution Records, VI. 1945

This is a continuation of the annual reports intended as a supplement to Deam's "Flora of Indiana." The report comprises three sections, viz. "SPECIES," giving new county records with the location of confirming specimens; "NOMENCLATORIAL CHANGES" in which an attempt is made, within the limits and in the spirit of conservative taxonomy, to keep the "Flora" up to date in plant names; "DELETIONS" in which known previous errors of determination are corrected.

### Species

Genera are listed in the order given in the "Flora" and species are given in alphabetical order under the genera. Symbols following the counties indicate the herbaria in which confirming specimens have been deposited. Species, varieties or forms new for the state are given in bold-face and these, together with name changes, are followed by literature references. Cases of doubt whether a species, newly found within the state, will become a part of the state flora are preceded by an asterick.

The specimens listed below have been collected by the following collectors: Butler University (B): Charles C. Deam, Charles M. Ek, Ray C. Friesner, Ralph Kriebel, Scott McCoy, and John E. Potzger; Deam Herbarium (D): Charles C. Deam, Ray C. Friesner, Ralph Kriebel, and John E. Potzger; Crispus Attucks High School (CA): William H. Rhoades; DePauw University (DP): Ray C. Friesner, Nancy Kreicker, Patricia O'Hair, John E. Potzger, Winona H. Welch, and T. G. Yuncker; Duke University (Du): Ray C. Friesner, R. M. Tryon, Jr.; Goshen College (Go): S. W. Witmer; Gray Herbarium (G): Ray C. Friesner; Huntington College (H): Fred Loew; Indiana University (IU): W. E. Ricker; University of Kansas (Ka): J. A. Holmes; Kriebel Private Herbarium (K): Ralph Kriebel; New York Botanical Garden (NY): Charles C. Deam, Mrs. Joseph Clemens, and Ray C. Friesner; University of Notre Dame (ND): John E. Potzger; University of Pennsylvania (Pa): Charles C. Deam; Purdue University (P): John E. Potzger; U. S. National Arborteam (USNA): Rhodora 47: 58, U. S. National Herbarium (N): John E. Potzger and Scott McCoy.

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.

*Botrychium dissectum*, Union (D,B). *B. d. v. obliquum*, Lagrange (D), Scott (B). *Cystopteris fragilis* v. *protrusa*, Carroll (B), Vermillion (B). *Dryopteris hexagonoptera*, Orange (B), Union (B). *D. thelypteris* v. *pubescens*, Carroll (B), Huntington (D). *Polystichum*

*acrostichoides*, Union (B). *P. a. f. incisum*, Harrison (D). *Athyrium angustum* v. *rubellum*, Scott (B). *A. pycnocarpon*, Vermillion (B). *Asplenium cryptolepis*, Harrison (B). *A. platyneuron*, Scott (B). *Equisetum arvense*, Randolph (B). *E. nelsoni*, Clinton (B), La Porte (B). *E. prealtum*, Union (B).

*Juniperus virginiana* v. *crebra*, Scott (B), Union (B). *Typha latifolia*, Harrison (D). *Najas flexilis*, Harrison (D, B). *Alisma subcordatum*, Orange (D). *Bromus commutatus*, Elkhart (B), Putnam (B), Vermillion (B). *B. inermis*, Elkhart (B). *B. japonicus*, Harrison (D, B), Vermillion (B). *B. purgans*, Vermillion (B). *B. secalinus*, Randolph (B). *B. tectorum*, Randolph (B), Vermillion (B). *Festuca elatior*, Randolph (B). *F. obtusa*, Vermillion (B). *F. ovina*, Elkhart (B), Lagrange (B). *F. rubra*, Lagrange (B).

*Glyceria septentrionalis*, Vermillion (B). *G. striata*, Randolph (B), Vermillion (B). *Poa annua*, Randolph (B), Starke (B), Steuben (B), Vermillion (B). *P. compressa*, Huntington (H), Vermillion (B). *P. paludigena*, Elkhart (D, B). *P. palustris*, Elkhart (B). *P. pratensis*, Blackford (B), De Kalb (B), Huntington (H), Randolph (B). *Eragrostis cilianensis*, Orange (D), Union (B), Vermillion (B). *E. frankii*, Clinton (B), Harrison (D), Union (B), Wayne (B). *E. pectinacea*, Union (B). *E. spectabilis*, Union (B).

*Dactylis glomerata*, Elkhart (B), Huntington (H), Randolph (B). *Melica nitens*, Randolph (B). *Triodia flava*, Delaware (B), Jasper (B), Starke (B), Union (B). *Agropyron repens*, Huntington (H), Orange (D). *Elymus villosus*, Carroll (B). *E. virginicus* v. *australis*, Harrison (D). *E. v. v. intermedius*, Harrison (D). *Hystrix patula*, Vermillion (B). *Hordeum jubatum*, Randolph (B). *H. pusillum*, Vermillion (B). *Koeleria cristata*, Elkhart (D, B). *Danthonia spicata*, Vermillion (B). *Calamagrostis canadensis*, Vermillion (B). *Agrostis alba*, Blackford (B), Vermillion (B). *A. hyemalis*, Vermillion (B). *A. perennans*, Orange (B), Union (B), Vermillion (B). *Cinna arundinacea*, Orange (B).

*Phleum pratense*, Elkhart (B), Lagrange (B), Vermillion (B). *Muhlenbergia frondosa*, Clinton (B), Delaware (B), Wayne (B). *M. mexicana*, Carroll (B), Delaware (B), La Porte (B), Starke (B). *M. schreberi*, Orange (B), Randolph (B). *M. sobolifera*, Huntington (D). *M. sylvatica*, Vermillion (B), Crawford (D), Harrison (D). *M. tenuiflora*, Rush (B). *Sporobolus asper*, Jasper (B). *S. clandestinus*, Jasper (B). *S. heterolepis*, Cass (B). *S. neglectus*, Carroll (B), Jasper (B), Union (B). *S. vaginiflorus*, Madison (B), Randolph (B), Union (B). *Stipa avenacea*, Elkhart (B). *A. longispica*, Orange (B). *A. oligantha*, Crawford (D).

*Eleusine indica*, Clinton (B). *Hierochloë odorata*, Randolph (B). *Bouteloua curtipendula*, Harrison (D, B, K), Vermillion (B). *Leersia oryzoides*, La Porte (B), Orange (B). *L. virginica*, Blackford (B), Orange (D, B). *Digitaria ischaemum*, Orange (B), Union (B). *D. sanguinalis*, Clinton (B), Delaware (B), Orange (B), Vermillion (B). *Leptoloma cognatum*, Clinton (B), Noble (B), Union (B), Vermillion (B).

*Paspalum circulare*, Jasper (B), Orange (D). *P. pubiflorum* v. *glabrum*, Orange (B).

*Panicum addisoni*, Elkhart (B). *P. agrostoides*, Crawford (D), Switzerland (K, B). *P. boscii*, Vermillion (B). *P. capillare*, Crawford (D). *P. clandestinum*, Vermillion (B). *P. depauperatum*, Elkhart (B), Noble (B). *P. dichotomiflorum*, Harrison (D), Huntington (D). *P. dichotomum*, Vermillion (B). *P. flexile*, Jasper (B). *P. gattingeri*, Union (B). *P. huachucae*, Vermillion (B). *P. implicatum*, Randolph (B). *P. latifolium*, Vermillion (B). *P. linearifolium* v. *wernerii*, Harrison (D, B). *P. longifolium* Torr., Hitchcock, Man. Grasses U. S., p. 679. Collected by J. E. Potzger. Starke (B, D, DP, H, IU, N, ND, P). *P. microcarpon*, Orange (B). *P. oligosanthos*, Elkhart (B, D). *P. philadelphicum*, Orange (B). *P. pseudopubescens*, Elkhart (D, B). *P. stipitatum*, Orange (D, B). *P. tsugetorum*, Elkhart (B).

*Echinochola crusgalli*, Huntington (H), Orange (D). *Setaria italica*, Jasper (B). *S. lutescens*, Delaware (B), La Porte (B), Orange (D, B), Vermillion (B). *E. viridis*, Huntington (H), La Porte (B). *Andropogon elliotii*, Crawford (D). *A. scoparius*, Randolph (B). *A. virginicus*, Carroll (B), Union (B). *Sorghastrum nutans*, Carroll (B), Delaware (B).

*Eleocharis acicularis* v. *typica*, Harrison (D). *E. quadrangulata* v. *crassior*, Switzerland (K, D, B). *Carex frankii*, Huntington (H), Orange (D). *C. grayii* v. *hispidula*, Harrison (D). *C. picta*, Jennings (K, D, B). *C. rosea*, Huntington (H). *C. scoparia*, Tippecanoe (B). *C. typhina*, Orange (D). *C. umbellata*, Lagrange (B, D, G, NY, Mi). *Symplocarpus foetidus*, Randolph (B). *Commelina communis*, Vermillion (B). *Tradescantia ohioensis*, Vermillion (B). *Juncus diffusissimus*, Orange (D). *J. marginatus*, Harrison (D), Washington (D). *J. tenuis* f. *anthelatus*, Orange (D). *Luzula multiflorus* v. *bulbosa*, Orange (D).

*Melanthium virginicum*, Randolph (B). *Allium canadense*, Vermillion (B). *Smilacina racemosa* v. *cylindrata* Fern. *Rhodora* 40: 406. 1938; Amer. Midland Nat. 33: 644-666. 1945. Bartholomew (D, B), Boone (D), Brown (D), Carroll (D), Clark (D), Crawford (D), Daviess (D), Dearborn (D, B), Decatur (D, B), De Kalb (B), Delaware (D), Dubois (D), Elkhart (D), Fayette (D, B), Fountain (D, B), Franklin (D, B), Fulton (B), Gibson (D), Grant (B), Hancock (D), Hendricks (B), Howard (D, B), Jackson (D, B), Jasper (B), Johnson (D, B), Knox (B), Lagrange (D, B), Lake (D), La Porte (B), Marion (D, B), Marshall (D), Noble (D, B), Ohio (B), Owen (B), Parke (B), Perry (D), Pike (D), Porter (D, B), Posey (D, B), Pulaski (B), Ripley (D), Rush (B), Scott (D), Shelby (B), Spencer (D, B), St. Joseph (B), Sullivan (D), Tippecanoe (B), Vermillion (B), Wabash (B), Warren (D, B), Warrick (D), Washington (D), Wells (B), Whitely (D).

*S. r.* v. *typica* Fern., Adams (D), Allen (D), Blackford (D), Boone (D), Cass (D), Clinton (D, B), Crawford (B), Elkhart (B), Fulton (D), Grant (D), Greene (D), Huntington (D), Hamilton (D), Harrison (D), Jasper (D), Jay (D), Jefferson (D, B), Jennings (D), Kosciusko



(D), La Porte (D), Lawrence (D), Madison (B), Marion (D, B), Marshall (D), Martin (D), Miami (D, B), Montgomery (D, B), Morgan (D), Newton (D), Ohio (D), Orange (D), Parke (D), Posey (D), Pulaski (D), Putnam (D), Randolph (D, B), Ripley (B), Rush (D, B), Starke (D), Steuben (D), St. Joseph (D), Switzerland (D), Wabash (D), Wells (D), White (D).

*Maianthemum canadense* v. *interius*, Elkhart (D, B). *Trillium flexipes* f. *walpolei*, Morgan (B), Randolph (B). *T. recurvatum* f. *luteum*, Putnam (DP). *T. sessile* f. *luteum*, Putnam (DP). *Smilax ecirrhata*, Randolph (B). *S. glauca*, Scott (B). *S. hispida*, Scott (B), Union (B), Vermillion (B). *Hypoxis hirsuta*, Randolph (B). *Dioscorea quaternata*, Scott (B). *Iris virginica* v. *shrevei*, Randolph (B). *Cypripedium calceolous* v. *pubescens*, Vermillion (B). *C. reginae*, Elkhart (D, B), Randolph (B). *Orchis spectabilis*, Miami (B).

*Populus deltoides*, Harrison (D). *Juglans cinerea*, Huntington (H). *J. nigra*, Union (B), Vermillion (B). *Carya cordiformis*, Orange (B), Union (B). *C. laciniosa*, Blackford (B), Carroll (B), Huntington (H), Union (B). *C. ovalis* v. *obcordata*, Wells (D, B). *C. o.* v. *obovalis*, Wells (D, B). *C. tomentosa*, Elkhart (D), Vermillion (B). *Carpinus caroliniana* v. *virginiana*, Carroll (B), Vermillion (B). *Ostrya virginiana*, Vermillion (B). *O. v.* f. *glandulosa* Scott (B), Union (B). *Corylus americana*, Scott (B). *Betula pumila* v. *glandifera*, Elkhart (B). *Alnus rugosa*, Washington (D). *Fagus grandifolia*, Scott (B), Union (B), Vermillion (B). *Quercus alba*, Scott (B). *Q. bicolor*, Carroll (B). *Q. borealis* v. *maxima*, Union (B), Vermillion (B). *Q. macrocarpa*, Carroll (B), Union (B). *Q. muhlenbergii*, Union (B). *Q. palustris*, Orange (B). *Q. velutina*, Scott (B), Vermillion (B).

*Ulmus americana* f. *alba* (Ait.) Fern. Rhodora 47: 133. 1945. Blackford (B), Carroll (B), Jefferson (B), Orange (B), Scott (B), Union (B), Vermillion (B). *U. rubra* Muhl. Rhodora 47: 203-204. 1945. Carroll (B), Union (B). *U. thomasi*, Carroll (B). *Celtis occidentalis* v. *crassifolia*, Blackford (B), Union (B), Vermillion (B). *Morus alba* v. *tatarica*, Union (B). *M. rubra*, Carroll (B), Orange (B), Scott (B), Union (B), Vermillion (B). *Maclura pomifera*, Union (B). *Humulus americanus*, Clinton (B). *Urtica procera*, Scott (B), Vermillion (B), Washington (B). *Laportea canadensis*, Clinton (B), Crawford (D), Huntington (H), Jasper (B), Starke (B). *Pilea pumila*, Washington (B). *Boehmeria cylindrica*, Orange (B), Vermillion (B). *Parietaria pennsylvanica*, Union (B).

*Polygonum neglectum*, Vermillion (B). *P. pennsylvanicum* v. *laevigatum*, Orange (B), Vermillion (B). *P. persicaria*, Huntington (H), Union (B). *P. punctatum*, Orange (B), Scott (B), Union (B). *P. scandens*, Blackford (B). *P. virginianum*, Huntington (H). *Chenopodium ambrosioides* ssp. *eu-ambrosioides*, Scott (B). *C. botrys*, Union (B). *Atriplex patula* v. *littoralis*, Lagrange (D). *Salsola pestifer*, Union (B). *Amaranthus albus* L. Rhodora 47: 139-140. 1945. Harrison (D). *Acnida tamariscina*, Union (B). *Phytolacca americana*, Union (B). *Mollugo*

*verticillata*, Bartholomew (B), Union (B), Vermillion (B). *Cerastium vulgatum* v. *hirsutum* f. *glandulosum*, Blackford (B). *Silene cserei*, Brown (B). *Lychnis alba*, Tippecanoe (B). *Saponaria officinalis*, Clinton (B).

*Nuphar advena*, Washington (D). *Aquilegia canadensis*, Randolph (B). *Anemone canadensis*, Delaware (B). *Hepatica americana*, Noble (B). *Clematis virginiana*, Harrison (D), Orange (D, B). *Ranunculus abortivus*, Huntington (H). *R. flabellaris*, Henry (B). *R. sceleratus*, Jasper (B). *Thalictrum dasycarpum*, Harrison (D). *Menispermum canadense*, Blackford (B), Scott (B), Vermillion (B). *Magnolia tripetala* L. Gray Man. 7ed p. 409. Collected by Charles C. Deam. Crawford (D, B, C, G, K, NY, O, SW). *Liriodendron tulipifera*, Scott (B), Union (B). *Asimina triloba*, Blackford (B), Carroll (B), Orange (B), Union (B). *Sassafras albidum*, Carroll (B), Noble (B), Scott (B), Vermillion (B). *S. a. v. molle*, Union (B). *Lindera benzoin*, Scott (B).

*Lepidium campestre*, Owen (B). *L. virginicum* v. *typicum*, Blackford (B), Vermillion (B). *Thlaspi arvense*, Randolph (B). *Sisymbrium altissimum*, Brown (B), Vermillion (B). *S. officinale* v. *leiocarpum*, Vermillion (B). *Rorippa islandica* v. *microcarpa*, Delaware (B). *R. sylvestris*, Vermillion (B). *Armoracia rusticana*, Huntington (H). *Cardamine douglassii*, Randolph (B). *Capsella bursa-pastoris*, Huntington (H). *Descurainia pinnata* v. *brachycarpa*, Cass (B). *Penthorum sedoides*, Union (B). *Heuchera americana* v. *brevipetala*, Randolph (B). *H. richardsonii* v. *grayana*, Noble (B). *Hydrangea arborescens*, Vermillion (B). *Grossularia hirtella*, Elkhart (B). *Hamamelis virginiana*, Blackford (B). *Platanus occidentalis*, Carroll (B), Clinton (B).

*Crataegus mollis*, Huntington (H). *Rubus nescius* Bailey. Gentes Herbarum 5: 808. 1945. Harrison (D). Collected by Charles C. Deam. *R. occidentalis*, Blackford (B), Union (B). *Fragaria virginiana*, Huntington (H). *F. v. v. illinoensis*, Jefferson (B). *Potentilla recta*, Blackford (B), Carroll (B), Huntington (H). *Geum canadense*, Vermillion (B). *G. virginianum*, Vermillion (B). *Filipendula rubra*, Delaware (B). *Agrimonia parviflora*, Huntington (H), Orange (B). *Rosa palustris*, Randolph (B). *Prunus lanata*, Harrison (B). *P. serotina*, Scott (B), Union (B).

*Cercis canadensis*, Randolph (B). *Cassia hebecarpa*, Crawford (B). *Gleditsia triacanthos*, Carroll (B), Union (B). *G. t. f. inermis*, Wells (D). *Medicago lupulina*, Blackford (B), Vermillion (B). *Melilotus alba*, Blackford (B), Vermillion (B). *M. officinalis*, Vermillion (B). *Trifolium hybridum* v. *elegans*, Blackford (B), Vermillion (B). *T. pratense*, Vermillion (B). *T. procumbens*, Blackford (B). *Petalostemum candidum*, Vermillion (B). *Robinia pseudo-acacia*, Union (B). *Stylosanthes biflora*, Crawford (D). *Desmodium bracteosum*, Crawford (D), Huntington (D, H), Union (B). *D. ciliare*, Harrison (D). *D. glutinosum*, Union (B). *D. illinoense*, Vermillion (B). *D. paniculatum*, Huntington (H). *D. p. v. pubens*, Crawford (D), Harrison (D). *D. pauciflorum*, Crawford (D),

Orange (D). *D. rotundifolium*, Huntington (D). *D. sessilifolium*, Harrison (D). *D. viridiflorum*, Crawford (D). *Lespedeza violacea*, Crawford (D), Huntington (D, H). *Lathyrus palustris* v. *linearifolius*, Elkhart (B), Randolph (B). *L. venosus* v. *intonsus*, Noble (B). *Clitoria mariana*, Harrison (D, B). *Amphicarpa bracteata* v. *comosa*, Union (B). *Apios americana*, Harrison (B). *Phaseolus polystachios* v. *typica*, Crawford (D, B). *Strophostyles helveola*, Huntington (H), Washington (D).

*Geranium carolinianum* v. *confertiflorum*, Vermillion (B). *G. maculatum*, Henry (B). *G. pusillum*, Lagrange (D, B). *Oxalis europaea*, Huntington (H). *O. e. f. cymosa*, Blackford (B), Orange (B). *O. e. f. villicaulis*, Jasper (B). *O. stricta*, Union (B). *O. s. v. pileocarpa*, Vermillion (B). *Linum medium* v. *texanum*, Crawford (D, B), Harrison (D, B). *L. striatum*, Elkhart (B). *Zanthoxylum americanum*, Union (B). *Acalypha rhomboidea*, Orange (B), Scott (B). *Euphorbia commutata*, Randolph (B). *E. cyparissias*, Harrison (D). *E. dentata*, Starke (B), Union (B). *E. heterophylla*, Carroll (B). *E. maculata*, Orange (B), Union (B). *E. supina*, Union (B). *Rhus copallina* v. *latifolia*, Orange (D). *R. glabra*, Union (B). *R. radicans*, Union (B). *R. r. v. littoralis*, Crawford (D). *R. vernix*, Carroll (B), Huntington (D, H). *Euonymus americanus*, Orange (B). *Celastrus scandens*, Union (B).

*Acer nigrum*, Carroll (B), Union (B). *A. rubrum*, Blackford (B), Orange (B). *A. saccharum*, Scott (B), Union (B). *A. s. v. rugelii*, Lagrange (B). *Impatiens biflora*, Orange (B). *Rhamnus lanceolata*, Randolph (B). *Vitis vulpina*, Vermillion (B). *Parthenocissus quinquefolia*, Blackford (B). *P. q. v. hirsuta*, Union (B). *Tilia heterophylla*, Franklin (B). *Abutilon theophrasti*, Huntington (H). *Sphaeralcea remota* (Greene) Fern. Gray Man. 7ed. p. 566. Collected by S. W. Witmer. Elkhart (B, D, G, Go, NY, SW). *Sida spinosa*, Huntington (H), Washington (D). *Hypericum mutlium*, Orange (D, B), Randolph (B), Vermillion (B). *Lechea minor*, Newton (D, B). *Viola cucullata*, Elkhart (D, B).

*Rotala ramosior* v. *typica*, Harrison (D). *Ammania coccinea*, Harrison (D). *Rhexia virginica*, Harrison (D). *Ludwigia alternifolia*, Orange (B). *L. palustris* v. *americana*, Orange (D). *L. polycarpa*, Orange (D). *Epilobium coloratum*, Huntington (D, H). *Oenothera pycnocarpa*, Crawford (D), Huntington (H), Union (B). *Circaea quadrisulcata* v. *canadensis*, Vermillion (B). *Aralia spinosa*, Bartholomew (B). *Panax quinquefolius*, Noble (B). *Sanicula canadensis* v. *grandis*, Blackford (B), Scott (B). *S. c. v. typica*, Blackford (B), Scott (B), Vermillion (B), Washington (B). *Chaerophyllum procumbens*, Owen (B). *Osmorhiza longistylis*, Randolph (B). *Cicuta maculata*, Crawford (D), Delaware (B). *Sium sauve*, Carroll (B). *Thaspium barbinode*, Randolph (B). *T. trifoliatum* v. *flavum*, Blackford (B), Carroll (B). *Angelica purpurea*, Delaware (B). *Oxyopolis rigidior*, Carroll (B). *Pastinaca sativa*, Vermillion (B). *Daucus carota*, Orange (D), Vermillion (B).



*Nyssa sylvatica* v. *caroliniana*, Bartholomew (B), Union (B). *N. s. v. typica*, Newton (D), Orange (B), Scott (B), Switzerland (K, B). *Cornus drummondii*, Clinton (B), Harrison (B). *C. femina*, Orange (B), Washington (D, B). *C. florida*, Union (B). *C. stolonifera*, Huntington (D), *Samolus parviflorus*, Orange (B). *Lysimachia ciliata*, Harrison (D), Randolph (B), Union (B). *L. nummularia*, Elkhart (B). *Dodecatheon meadia*, Randolph (B). *Fraxinus americana*, Blackford (B), Orange (B), Scott (B), Union (B). *F. lanceolata*, Carroll (B). *F. nigra*, Carroll (B). *F. quadrangulata*, Carroll (B), Union (B). *Gentiana flavida*, Harrison (D, K, B). *G. procera*, Huntington (D). \**Nymphoides peltatum* (S. P. Gmel.) Britten & Rendle, Gray Man. 7ed. p. 661. Collected by W. E. Ricker. Marshall (IU).

*Acerates viridiflora*, Noble (B). *Asclepias incarnata*, Vermillion (B). *A. syriaca*, Washington (B). *A. tuberosa* ssp. *interior* Woodson. Missouri Bot. Gard. Ann. 31: 368-369. 1944. Harrison (D, B), Kosciusko (B), Vermillion (B). *Ampelamus albidus*, Orange (B). *Gonolobus gonocarpus*, Harrison (B). *Cuscuta cephalanthi*, Huntington (D). *Ipomoea hederacea*, Union (B). *I. pandurata* v. *rubescens*, Harrison (D), Vermillion (B). *Phlox amplifolia*, Vermillion (B). *P. maculata*, Crawford (B). *P. paniculata*, Clinton (B), Huntington (H). *Hydrophyllum canadense*, Vermillion (B). *Hackelia virginiana*, Huntington (H). *Verbena bracteata*, La Porte (B), Madison (B), Warren (Ka.). X *V. perriana* Moldenke, Johnson (CA). *V. simplex*, Jay (B). *V. urticaefolia*, Vermillion (B).

*Teucrium canadense*, Elkhart (B). *T. c. v. virginicum*, Blackford (B), Vermillion (B). *T. occidentale* v. *boreale*, Vermillion (B). *Scutellaria nervosa* v. *calvifolia* Fern., Rhodora 47: 174. 1945. Adams (D), Allen (D), Bartholomew (D), Clark (D), Daviess (D), DeKalb (B), Gibson (D), Greene (D), Harrison (D), Jackson (D, B, G), Jennings (D), Knox (D), Lawrence (D), Monroe (D), Posey (D, B), Vanderburgh (D), Warrick (D), Washington (D), Wells (D). *S. n. v. typica*, Crawford (D), Dearborn (D), Dubois (D), Orange (D), Perry (D), Pike (D), Spencer (D, B), Switzerland (D), Warren (D). *S. ovata* v. *versicolor*, Vermillion (B). *Agastache scrophularifolia*, Crawford (D), Vermillion (B). *Nepeta cataria*, Huntington (H), Vermillion (B). \**Dracocephalum parviflorum* Nutt., Gray Man. 7ed., p. 697. Collected by Winona H. Welch. Putnam (DP). *Prunella vulgaris* v. *lanceolata*, Huntington (H). *Physostegia speciosa*, Harrison (D).

*Stachys tenuifolia* v. *hispida*, Union (B). *S. t. v. typica*, Orange (D), Vermillion (B). *Monarda clinopodia*, Union (B). *Blephilia hirsuta*, Crawford (D), Scott (B). *Hedeoma hispida*, Tippecanoe (B). *Pycnanthemum flexuosum*, Scott (B). *P. incanum*, Harrison (D). *P. pilosum*, Vermillion (B). *P. virginianum*, Huntington (H). *Lycopus americanus*, Huntington (H). *Mentha arvensis*, Huntington (H). *M. piperita*, Crawford (D). *M. spicata*, Union (B). *Collinsonia canadensis*, Union (B), Washington (D). *Lycium halimifolium*, Carroll (B). *Physalis ambigua*, Delaware (B). *P. heterophylla*, Huntington (H). *P. pubescens*, Harrison (D, B). *P. subglabrata*, Huntington (H), Union (B). *Solanum caro-*

*linense*, Blackford (B), Carroll (B), Huntington (H), Orange (B), *S. dulcamara*, Huntington (H). *S. nigrum*, Huntington (H). *Datura stramonium*, Harrison (D), Union (B).

*Verbascum thapsus*, Blackford (B). *Linaria canadensis*, Lagrange (B). *Chaenorhinum minus*, Blackford (B), Tippecanoe (B). *Scrophularia marilandica*, Vermillion (B). *Chelone glabra* v. *linifolia*, Huntington (H). *C. g. v. tomentosa*, Huntington (D). *Penstemon grandiflorus* Nutt., Rydb. Fl. Prairies & Plains, p. 713. Collected by Charles C. Deam, Ray C. Friesner, John E. Potzger and John Seybert. Elkhart (D, B, G). *Mimulus alatus*, Orange (D, B). *M. ringens*, Tippecanoe (B), Vermillion (B). *Leucospora multifida*, Orange (D). *Lindernia anagallidea*, Orange (D). *L. dubia* v. *riparia*, Orange (D), Washington (D). *Veronica peregrina* v. *typica*, Huntington (H). *Veronicastrum virginicum*, Vermillion (B). *Besseyia bullii*, Lagrange (B). *Gerardia tenuifolia* v. *parviflora*, Vermillion (B). *Pedicularis lanceolata*, Huntington (D). *Campsis radicans*, Huntington (H). *Orobanche ludoviciana* v. *genuina*, Harrison (D).

*Ruellia caroliniensis* v. *cheloniformis* Fern., *Rhodora* 47: 80-81. 1945., Crawford (D, B, NY), Jefferson (NY), Warrick (D). *R. c. v. dentata* (Nees) Fern., *Rhodora* 47: 83. 1945., Floyd (D). *R. c. v. membranacea* Fern., *Rhodora* 47: 75-78. 1945., Clark (D), Spencer (D), Washington (D). *R. c. v. nanella* Fern., *Rhodora* 47: 79-80. 1945., Clark (D), Floyd (D, B). *R. c. v. salicina* Fern., *Rhodora* 47: 81-82. Clark (H). *R. c. v. semicalva* Fern., *Rhodora* 47: 73-75. 1945., Crawford (D), Dubois (D), Floyd (D, B), Perry (D). *R. c. v. typica* Fern., *Rhodora* 47: 71-73. 1945., Crawford (B), Orange (D), Washington (D). *R. humilis* v. *calvescens* Fern., *Rhodora* 47: 60. 1945., Crawford (D, Pa). *R. h. v. expansa* Fern., *Rhodora* 47: 58. 1945, Gibson (D), La Porte (D), Montgomery (N), Tippecanoe (B, USNA), Warren (D), Vermillion (B). *R. h. v. frondosa* Fern., *Rhodora* 47: 54. 1945, Benton (D, B), Cass (D, B), Clinton (B), Daviess (D), Elkhart (D), Floyd (B), Gibson (D), Greene (D), Hancock (B), Harrison (D, B, Du, NY), Jasper (D), Knox (B). Lagrange (D), Lawrence (D), Madison (D), Marion (D, B, G), Miami (D, B), Newton (D, B), Posey (D), Pulaski (D), Tippecanoe (D, B), Vermillion (D), Warren (D, NY), Wells (D), White (D, B). *R. h. v. typica* Fern., *Rhodora* 47: 51. 1945, Clinton (B), Crawford (D), Floyd (D, NY), Hancock (B), Harrison (D, B), Knox (D), Orange (B), Posey (D), Spencer (D), St. Joseph (NY), Sullivan (D), Warren (D, Du). *R. h. v. typica* f. *grisea*, Harrison (B). *R. strepens*, Blackford (B), Cass (B), Ohio (B), Switzerland (B). *R. s. f. cleistantha*, Henry (B), Howard (D, B), Jennings (D), Knox (B), Montgomery (B).

*Dianthera americana*, Crawford (D). *Plantago aristata*, Huntington (H), Orange (B), Vermillion (B). *P. lanceolata*, Vermillion (B). *P. purshii*, Elkhart (D, B). *P. virginica*, Lagrange (B). *Houstonia longifolia*, Vermillion (B). *Cephalanthus occidentalis*, Orange (B), Vermillion (B). *Galium asprellum*, Delaware (B), Huntington (H), Randolph (B). *G. boreale* v. *intermedium*, Noble (B). *G. circaezans* v. *hypomalacum*, Orange (D). *G. c. v. typicum*, Scott (B). *G. concinnum*, Scott



(B), Union (B). *Sambucus canadensis*, Union (B). *Viburnum acerifolium*, Scott (B). *V. lentago*, Randolph (B). *Triosteum perfoliatum*, Cass (B), Huntington (D). *Lonicera japonica*, Washington (D). *L. xylosteum*, Elkhart (D, B). *Specularia perfoliata*, Vermillion (B). *Lobelia cardinalis*, Harrison (D, B). *L. inflata*, Orange (D, B), Scott (B), Union (B), Vermillion (B). *L. puberula*, Switzerland (K, B). *L. siphilitica*, Orange (B), Union (B).

*Vernonia altissima*, Orange (B). *V. missurica*, Crawford (D, B). *Eupatorium altissimum*, Huntington (D), Jasper (B). *E. perfoliatum*, Henry (B), Orange (D, B). *E. purpureum*, Orange (B). *E. rugosum*, Orange (B). *E. serotinum*, Orange (B), Scott (B), Union (B). *Solidago altissima*, Clinton (B), Vermillion (B). *S. caesia*, Union (B). *S. canadensis* v. *gilvocanescens*, Henry (B). *S. gigantea*, Harrison (B), Jasper (B). *S. g.* v. *leiophylla*, Crawford (D), Harrison (D, B), Union (B). *S. graminifolia* v. *media*, Noble (B). *S. g.* v. *nuttallii*, Carroll (B), Union (B). *S. juncea*, Orange (D). *S. latifolia*, Union (B). *S. missouriensis* v. *fasciculata* Holz, Vermillion (B). *S. nemoralis*, Noble (B), Union (B). *S. ohioensis*, Carroll (B), Randolph (D, B). *S. rigida*, Vermillion (B). *S. rugosa*, Switzerland (K, D, B). *S. uniligulata*, Huntington (D).

*Aster ericoides*, Lagrange (D), Newton (D). *A. e.* v. *prostratus*, Lagrange (D). *A. lucidulus*, Huntington (D). *A. oblongifolius* v. *angustatus*, Harrison (D, B). *A. pilosus*, Orange (B), Scott (B), Union (B). *A. praealtus*, Huntington (D, B). *A. p.* v. *angustior*, Newton (D). *Erigeron annuus*, Blackford (B), Vermillion (B). *E. canadensis*, Orange (B), Vermillion (B). *Silphium integrifolium*, Randolph (B). *S. i.* v. *deamii*, Tippecanoe (B). *S. laciniatum*, Vermillion (B). *Ambrosia elatior*, Henry (B), Union (B). *A. trifida*, Henry (B). *Xanthium pennsylvanicum*, Union (B). *Eclipta prostratus* (L.) L., Rhodora 47: 196., Orange (D). *Rudbeckia deamii*, Crawford (D, B, K), Harrison (D, B, K), Huntington (D), Orange (D), Union (D, B). *R. fulgida*, Crawford (D, B). *R. hirta*, Carroll (B), Orange (D), Vermillion (B). *R. laciniata*, Washington (D). *R. triloba*, Switzerland (K, D, B). *Actinomeris alternifolia*, Union (B). *Coreopsis tripteris*, Huntington (H).

*Bidens aristosa* v. *mutica*, Jasper (B), Scott (D, B). *B. bipinnata*, Orange (B). *B. comosa*, Huntington (D, H), Union (B). *B. vulgata*, Huntington (D). *Anthemis cotula*, Blackford (B), Huntington (H), Vermillion (B). *Achillea millefolium*, Vermillion (B). *Chrysanthemum leucanthemum* v. *pinnatifidum*, Vermillion (B). *Artemisia annua*, Harrison (D), Union (B). *Erechtites hieracifolia*, Crawford (B), Orange (B). *Cacalia atriplicifolia*, Union (B). *Cirsium arvense*, Blackford (B). *C. discolor*, Henry (B), Union (B). *C. muticum*, Carroll (B). *Cichorium intybus*, Huntington (H), Union (B). *Tragopogon pratensis*, Brown (B), Madison (B), Starke (B). *Lactuca biennis*, Crawford (D), Huntington (H), Scott (B). *L. canadensis* v. *longifolia* (Michx.) Farwell, Rhodora 40: 480, Vermillion (B). *L. scariola*, Clinton (B), Union (B). *L. s.* v. *integrata*, Jasper (B). *L. villosa*, Harrison (D, B). *Prenanthes altissima*, Noble (B). *P. aspera*, Harrison (B). *P. gronovii*, Orange (D).

## Deletions

The following deletion should be made from the State Flora Catalog:  
*Helianthus annuus*, drop Lake county.

## 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.

*Botrychium dissectum* v. *obliquum*, Marion. *Sagittaria brevirostra*, Harrison. *Elymus canadensis*, Huntington. *E. virginicus*, Huntington. *Cinna arundinacea*, Huntington. *Panicum anceps*, Harrison. *Sorghastrum nutans*, Huntington. *Salix discolor*, Huntington. *Carya cordiformis*, Huntington. *Quercus borealis* v. *maxima*, Huntington. *Q. imbricaria*, Harrison. *Cannabis sativa*, Lagrange. *Mollugo verticillata*, Washington. *Rorippa sessiliflora*, Harrison. *Penthorum sedoides*, Harrison. *Parnassia glauca*, Huntington. *Liquidambar styraciflua*, Harrison. *Filipendula rubra*, Huntington. *Tephrosia virginiana* v. *holosericea*, Harrison. *Amphicarpa bracteata*, Huntington. *Oxypolis rigidior*, Huntington.

*Stachys tenuifolia*, Harrison. *Lindernia dubia* v. *riparia*, Harrison. *Dasistoma macrophylla*, Harrison. *Epifagus virginiana*, Marion. *Lobelia siphilitica*, Washington. *Eupatorium perfoliatum*, Huntington. *E. rugosum*, Huntington. *Solidago caesia*, Huntington, Marion. *S. graminifolia* v. *nuttallii*, Huntington, *S. riddellii*, Huntington. *Aster novae-angliae*, Huntington. *A. pilosus*, Lagrange. *Helianthus tuberosus*, Huntington. *Bidens frondosa*, Huntington. *Helenium autumnale*, Huntington. *Cirsium muticum*, Huntington.

## Nomenclatorial Changes

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

*Pteretis nodulosa* (Michx.) Nieuwland to

*P. pennsylvanica* (Willd.) Fern.

Rhodora 47: 123. 1945

*P. nodulosa* f. *pubescens* (Terry) Fern. to

*P. pennsylvanica* f. *pubescens* (Terry) Fern.

Rhodora 47: 124. 1945

*Dryopteris thelypteris* v. *pubescens* (Lawson) Prince to

*D. thelypteris* v. *pubescens* (Lawson) Nakai

Bot. Mag. Tokyo 45: 97. 1931.

- Festuca obtusa* Spreng. to  
    *F. obtusa* Biehler  
    *Rhodora* 47: 199. 1945
- Festuca octoflora* Walt. to  
    *Vulpia octoflora* (Walt.) Rydb.  
    *Rhodora* 47: 107. 1945
- Festuca octoflora* v. *tenella* (Willd.) Fern. to  
    *Vulpia octoflora* v. *tenella* (Willd.) Fern.  
    *Rhodora* 47: 107. 1945
- Agropyron trachycaulum* (Link) Malte  
    in *Flora* as synonym of  
    *A. subsecundum* (Link) Hitchc. change to syn. of  
    *A. pauciflorum* (Schwein.) Hitchc.  
    Hitchcock, *Man. Grasses*, p. 775
- Sporobolus clandestinus* (Spreng.) Hitchc. to  
    *S. clandestinus* (Biehler) Hitchc.  
    *Rhodora* 47: 198. 1945
- Cyperus densicaespitosus* Mattf. & Kuenth.  
    (*Kyllingia pumila* of "Flora") to  
    *C. tenuifolius* (Steud.) Dandy  
    *Rhodora* 47: 113. 1945
- Scirpus eriophorum* Michx. to  
    *S. rubricosus* Fern.  
    *Rhodora* 47: 124. 1945
- Juncus dudleyi* Wieg. to  
    *J. tenuis* v. *dudleyi* (Wieg.) Hermann  
    *Jour. Arnold Arboret.* 25: 56. 1944
- Juncus macer* S. F. Gray to  
    *J. tenuis* Willd.  
    *Rhodora* 47: 117. 1945
- Juncus macer* f. *anthelatus* (Wieg.) Hermann to  
    *J. tenuis* f. *anthelatus* (Wieg.) Hermann  
    *Rhodora* 47: 117-123. 1945  
    *Castanea* 10: 23. 1945
- Juncus macer* f. *discretiflorus* Hermann to  
    *J. tenuis* f. *discretiflorus* (Hermann) Fern.  
    *Rhodora* 47: 123. 1945
- Juncus macer* f. *williamsii* (Fern.) Hermann to  
    *J. tenuis* f. *williamsii* (Fern.) Hermann  
    *Rhodora* 47: 117-123. 1945  
    *Castanea* 10: 23. 1945



*Populus deltoides* Michx. to  
    *P. deltoides* Marsh.  
    Rehder, Trees and Shrubs, 2ed. p. 81, 1940

*Ulmus americana* L. to  
    *U. americana* f. *alba* (Ait.) Fern.  
    *U. americana* f. *intercedens* Fern.  
    *U. americana* f. *laevior* Fern.  
    *U. americana* f. *pendula* Fern.  
    Rhodora 47: 132. 1945

*Ulmus fulva* Michx. to  
    *U. rubra* Muhl.  
    Rhodora 47: 203. 1945

*Rumex brittanica* L. to  
    *R. orbiculatus* Gray  
    Rhodora 47: 133-137. 1945

*Amaranthus graecizans* L. to  
    *A. albus* L.  
    Rhodora 47: 139-140. 1945

*Amaranthus blitoides* S. Wats. to  
    *A. graecizans* L.  
    Rhodora 47: 139-140. 1945

*Sassafras* Nees to  
    *Sassafras* Trew.  
    Amer. Midland Nat. 33: 500. 1945

*Barbarea vulgaris* v. *arcuata* (J. & C.) Fries.  
(Indiana Plt. Distr. Record IV 1943) to  
    *B. vulgaris* v. *arcuata* (J. & C. Presl) Fries.  
    Rhodora 45: 304. 1943

*Amorpha canescens* Nutt. to  
    *A. canescens* Pursh  
    Pursh Fl. Amer. Sept. 2: 467. 1816

*Rhus copallina* L. to  
    *R. copallina* v. *latifolia* DC.  
    DC. Mon. 4: 384. 1883  
    Rhodora 37: 167-168. 1935

*Rhus glabra* v. *borealis* Britt. to  
    X *R. borealis* Greene  
    Amer. Midland Nat. 33: 498. 1945

*Rhus pulvinata* Greene to  
    X *R. borealis* Greene  
    Amer. Midland Nat. 33: 498-499. 1945

- Rhus typhina* L. to  
**R. typhina** Torner  
Amer. Midland Nat. 33: 499-500. 1945  
Missouri Bot. Gard. Ann. 24: 326. 1937
- Evonymus* L. to  
**Euonymus** L.  
Amer. Midland Nat. 33: 511. 1945
- Napaea dioica* L. to  
**N. dioica** v. *stellata* Fassett  
Torreya 42: 179. 1943
- Epilobium coloratum* Muhl. to  
**E. coloratum** Biehler  
Rhodora 47: 199. 1945
- Epilobium densus* Raf.  
(*E. rosmarinifolium* Pursh of Indiana Plt. Distr. Record V. 1944) to  
**E. leptophyllum** Raf.  
Rhodora 46: 382. 1944
- Panax quinquefolium* L. to  
**P. quinquefolius** L.  
North Amer. Flora 28B: 9. 1944
- Panax trifolium* L. to  
**P. trifolius** L.  
North Amer. Flora 28B: 10. 1944
- Cornus stricta* Lam. to  
**C. femina** Willd.  
Rhodora 47: 101, 168. 1945
- Isanthus brachiatus* (L.) BSP. to  
**Trichostema brachiatus** L.  
Brittonia 5: 289-291. 1945
- Scutellaria incana* Spreng. to  
**S. incana** Biehler  
Rhodora 47: 199. 1945
- Scutellaria leonardi* Epling to  
**S. parvula** v. *leonardi* (Epling) Fern.  
Rhodora 47: 172. 1945
- Scutellaria ovalifolia* Pers.  
(*S. ovalifolia* v. *hirsuta* (Short) Fern. Indiana Plant Distr. Record IV. 1943) to  
**S. elliptica** v. *hirsuta* (Short) Fern.  
Rhodora 47: 201. 1945

- Scutellaria nervosa* Pursh to  
    *S. nervosa* v. *calvifolia* Fern. and  
    *S. nervosa* v. *typica* Fern.  
    *Rhodora* 47: 174. 1945
- Monarda bradburiana* Beck to  
    *M. russeliana* Nutt.  
    *Rhodora* 46: 491. 1945
- Ruellia caroliniensis* (Walt.) Steud. and  
*R. caroliniensis* v. *parviflora* (Nees) Blake to  
    *R. caroliniensis* v. *cheloniformis* Fern.  
        v. *dentata* (Nees) Fern.  
        v. *membranacea* Fern.  
        v. *nanella* Fern.  
        v. *semicalva* Fern.  
        v. *typica* Fern.  
    *R. humilis* v. *calvescens* Ferns.  
        v. *expansa* Fern.  
        v. *frondosa* Fern.  
        v. *typica* Fern.  
    *Rhodora* 47: 1-38, 47-63, 69-90. 1945
- Solidago glaberrima* Martens to  
    *S. missouriensis* v. *fasciculata* Holz,  
    *Amer. Midland Nat.* 33: 250. 1945  
    *U. S. Natl. Herb. Contr.* 1: 208. 1892
- Solidago graminifolia* (L.) Salisb. to  
    *S. graminifolia* v. *typica* Rosendahl & Cronquist  
    *Amer. Midland Nat.* 33: 253. 1945
- Solidago hispida* Muhl. to  
    *S. hispida* v. *typica* Rosendahl & Cronquist  
    *Amer. Midland Nat.* 33: 248. 1945
- Solidago nemoralis* Ait. to  
    *S. nemoralis* v. *typica* Rosendahl & Cronquist  
    *Amer. Midland Nat.* 33: 249. 1945
- Solidago nemoralis* v. *longipetiolata* Palmer & Steyermark to  
    *S. nemoralis* v. *decemflora* (DC.) Fern.  
    *Amer. Midland Nat.* 33: 249. 1945  
    *Rhodora* 38: 226. 1936
- Solidago speciosa* Nutt. to  
    *S. speciosa* v. *typica* Rosendahl & Cronquist  
    *Amer. Midland Nat.* 33: 248. 1945
- Antennaria plantaginifolia* (L.) Richards to  
    *A. plantaginifolia* (L.) Hook.  
    *Rhodora* 47: 240. 1945

Eclipta alba (L.) Hassk. to

E. prostratus (L.) L.

Rhodora 47: 196-197. 1945

Artemisia gnaphalodes Nutt. to

A. ludoviciana v. latifolia (Bess.) T. & G.

Rhodora 47: 252-253. 1945

Lactuca canadensis v. typica Wieg. to

L. canadensis v. longifolia (Michx.) Farwell

Rhodora 40: 480-481. 1938

Lactuca canadensis v. integrifolia (Bigel.) Gray to

L. canadensis L.

Rhodora 40: 480-481. 1938

Lactuca campestris Greene to

L. ludoviciana f. campestris (Greene) Fern.

Rhodora 40: 481. 1938

*State Flora Committee:*

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