

Contributions to the Flora of Wayne County, Indiana, II

CARROLLE A. MARKLE,¹ Earlham College

A study of the herbaceous dicotyledonous plants of Wayne County, Indiana, was made during the academic year 1955-1956. All specimens collected in Wayne County and now a part of the Earlham College Herbarium, housed and maintained by the Biology Department, were placed in specially marked, separate folders and these folders placed in the herbarium directly after the out-of-county folders in each family. Hence the county sheets can be "pulled" for study, readily, at any time.

A card was then typed for each genus known to be represented in Indiana and under the genus were listed all species previously reported for Wayne County in Deam's Flora of Indiana. If one of these species was found to be represented in the Earlham College Herbarium it was so indicated on the card. If a species was reported for counties adjacent to Wayne County, but not for the county itself this was also indicated on the cards and the herbarium was checked for specimens. From this card index of checked species a list of those of the county was then compiled. No species were included in the list unless previously reported by Deam or now present in the Earlham College Herbarium, hence the list is not to be considered complete, even for the genera reported. It should be noted that the *Compositae* are not included in this report, but it is hoped that a further study, including the monocotyledonous species and species of composites will follow.

The following list includes 341 species, 154 of which were not included in Deam's Flora of Indiana. They belong to 200 genera and 57 families. The sequence of genera and the nomenclature is in accord with that used in Gray's Manual of Botany, 8th Edition, but species are given alphabetically within the genera.

A List of the Dicotyledonous Herbaceous Species of Wayne County, Indiana.

(Exclusive of Species of the Family *Compositae*)

Cannabaceae: *Cannabis sativa* L. Urticaceae: *Laportea canadensis* (L.) Wedd., *Pilea pumila* (L.) Gray, *Boehmeria cylindrica* (L.) Sw. *Parietaria pensylvanica* Muhl. Santalaceae: *Comandra umbellata* (L.)

¹The author wishes to acknowledge the financial assistance afforded by a grant received from the Research Grants Committee of the Indiana Academy of Science. She also wishes to express her appreciation for the organizational work done with the herbarium material by two Earlham seniors, Patricia Boring and Edward Beals. The careful checking and preparation of the final list was done by Mrs. Lois Joyner, Earlham '55, without whose able assistance the project could not have been completed at this time.

Nutt. Aristolochiaceae: *Asarum canadense* L., *A. canadense* var. *acuminatum* Ashe, *A. canadense* var. *reflexum* (Bickn.) Robins., *Aristolochia Serpentina* L. Polygonaceae: *Rumex Acetosella* L., *R. crispus* L., *R. obtusifolius* L., *R. orbiculatus* Gray, *Tovara virginiana* (L.) Raf., *Polygonum cristatum* Engelm. and Gray, *P. Persicaria* L., *P. punctatum* Ell., *P. sagittatum* L. Chenopodiaceae: *Cycloloma atriplicifolia* (Spreng.) Coult., *Chenopodium album* L., *C. ambrosioides* L., *C. murale* L. Amaranthaceae: *Amaranthus graecizans* L., *A. hybridus* L., *A. retroflexus* L., *Froelichia gracilis* (Hook) Moq. Phytolaccaceae: *Phytolacca americana* L. Aizoaceae: *Mollugo verticillata* L. Portulacaceae: *Portulaca oleracea* L., *Claytonia virginica* L. Caryophyllaceae: *Paronychia canadensis* (L.) Wood, *P. fastigiata* Raf., *Arenaria lateriflora* L., *A. serpyllifolia* L., *Stellaria longifolia* Muhl., *S. media* (L.) Cyrille, *S. pubera* Michx., *S. pubera* var. *silvatica* (Beguinot) Weath., *Cerastium nutans* Raf., *C. vulgatum* L., *C. vulgatum* forma *glandulosum* (Boenn.) Druce, *Agrostemma Githago* L., *Silene antirrhina* L., *S. noctiflora* L., *S. stellata* (L.) Ait., *S. virginica* L., *Saponaria officinalis* L. Ranunculaceae: *Ranunculus abortivus* L., *R. hispidus* Michx., *R. recurvatus* Poir., *R. sceleratus* L., *R. septentrionalis* Poir., *R. septentrionalis* var. *cancetorum* (Greene) Fern., *Thalictrum dasycarpum* Fisch. & Lall., *T. dioicum* L., *T. revolutum* DC., *Anemonella thalictroides* (L.) Spach., *Hepatica acutiloba* DC., *Anemone quinquefolia* L. var. *interior* Fern., *A. virginiana* L., *Clematis virginicum* L., *Capsella Bursapastoris* (L.) Medic., *Brassica nigra* (L.) *Aquilegia canadensis* L., *Delphinium tricornis* Michx., *Cimicifuga racemosa* (L.) Nutt., *Actaea pachypoda* Ell., *A. rubra* (Ait.) Willd., *Hydrastis canadensis* L.

Berberidaceae: *Podophyllum peltatum* L., *Jeffersonia diphylla* (L.) Pers., *Caulophyllum thalictroides* (L.) Michx. Papaveraceae: *Sanguinaria canadensis* L., *Stylophorum diphyllum* (Michx.) Nutt., *Chelidonium majus* L., *Dicentra canadensis* (Goldie) Walp., *D. cucullaria* (L.) Bernh., *Corydalis flavula* (Raf.) DC., *Fumaria officinalis* L. Cappariaceae: *Polanisia graveolens* Raf. Cruciferae: *Draba verna* L., *Alyssum Alyssoides* L., *Thlaspi arvense* L., *Lepidium campestre* (L.) R. Br., *L. virginicum* L., *Capsella Bursapastoris* (L.) Medic., *Brassica nigra* (L.) Koch, *B. Rapa* L., *Hesperis matronalis* L., *Erysimum cheiranthoides* L., *Rorippa islandica* (Oeder) Borbás, *Nasturtium officinale* R. Br., *Barbarea verna* (Mill.) Aschers., *B. vulgaris* R. Br., *Iodanthus pinnatifidus* (Michx.) Steud., *Dentaria laciniata* Muhl., *Cardamine bulbosa* (Schreb.) BSP., *C. Douglassii* (Torr.) Britt., *C. pensylvanica* Muhl., *Arabis laevigata* (Muhl.) Poir., *A. patens* Sulliv.

Crassulaceae: *Sedum telephioides* Michx., *S. ternatum* Michx. Saxifragaceae: *Penthorum sedoides* L., *Mitella diphylla* L., *Parnassia glauca* Raf. Rosaceae: *Fragaria virginiana* Duchesne, *F. virginiana* var. *illinoensis* (Prince) Gray, *Waldsteinia fragarioides* (Michx.) Tratt., *Potentilla norvegica* L., *P. recta* L., *P. simplex* Michx., *Filipendula rubra* (Hill) Robins., *Geum canadense* Jacq., *G. laciniatum* Murr. var. *trichocarpum* Fern., *G. vernum* (Raf.) T. & G., *G. virginianum* L., *Agrimonia gryposepala* Wallr., *A. rostellata* Wallr.

Leguminosae: *Cassia hebecarpa* Fern., *Trifolium hybridum* L., *T. praetense* L., *T. procumbens* L., *T. repens* L., *Melilotus alba* Desr., *M. officinale* (L.) Lam., *Medicago sativa* L., *Desmodium canadense* (L.) DC., *D. canescens* (L.) DC., *D. glutinosum* (Muhl.) Wood., *D. nudiflorum* (L.) DC., *D. paniculatum* (L.) DC., *Vicia villosa* Roth., *Apios americana* Medic., *Phaseolus polystachios* (L.) BSP., *Amphicarpa bracteata* (L.) Fern. var. *comosa* Fern.

Oxalidaceae: *Oxalis europaea* Jord. forma *cymosa* (Small) Wieg., *O. europaea* forma *villicaulis* Wieg., *O. stricta* L., *O. violacea* L. *Geranium carolinianum* L. var. *confertiflorum* Fern., *G. dissectum* L., *G. maculatum* L. Polygalaceae: *Polygala Senega* L. Euphorbiaceae: *Croton monanthogynus* Michx., *Acalypha rhomboidea* Raf., *A. virginica* L., *Euphorbia corollata* L., *E. Cyparissias* L., *E. dentata* Michx., *E. maculata* L., *E. Peplus* L. Limnathaceae: *Floerkea proserpinacoides* Willd. Balsaminaceae: *Impatiens capensis* Meerb., *I. pallida* Nutt. Malvaceae: *Malva neglecta* Wallr., *M. rotundifolia* L., *Sida spinosa* L., *Abutilon Theophrasti* Medic., *Hibiscus Trionum* L. Guttiferae: *Hypericum mutilum* L., *H. perforatum* L., *H. punctatum* Lam. Violaceae: *Hybanthus concolor* (T.F.Forst) Spreng., *Viola missouriensis* Greene, *V. papilionacea* Pursh, *V. pennsylvanica* Michx., *V. rostrata* Pursh, *V. sororia* Willd., *V. striata* Ait., *V. triloba* Schwein.

Passifloraceae: *Passiflora lutea* L. var. *glabriflora* Fern. Lythraceae: *Cuphea petiolata* (L.) Koehne. Onagraceae: *Lugwigia palustris* (L.) Ell. var. *americana* (DC.) Fern & Griseb. *Epilobium coloratum* Biehler, *E. strictum* Muhl., *Oenothera biennis* L. var. *hirsutissima* Gray, *O. biennis* var. *pycnocarpa* (Atkinson & Bartlett) Wieg., *Gaura biennis* L., *Circaea quadrisulcata* (Maxim.) Franch. & Sav. Araliaceae: *Aralia racemosa* L., *Panax quinquefolius* L. Umbelliferae: *Sanicula canadensis* L., *S. gregaria* Bickn., *S. marilandica* L., *S. trifoliata* Bickn., *Chaerophyllum procumbens* (L.) Crantz., *Osmorhiza Clayton* (Michx.); C. B. Clarke, *O. longistylis* (Torr.) DC., *Erigenia bulbosa* (Michx.) Nutt., *Conium maculatum* L., *Zizia aptera* (Gray) Fern., *Z. aurea* (L.) W.D. J.Koch, *Cicuta maculata* L., *Cryptotaenia canadensis* (L.) DC., *Sium suave* Walt., *Thaspium barbinode* (Michx.) Nutt., *T. trifoliatum* (L.) Gray var. *flavum* Blake, *Angelica atropurpurea* L., *Oxypolis rigidior* (L.) C. & R., *Pastinaca sativa* L., *Heracleum maximum* Bartr., *Daucus Carota* L.

Pyrolaceae: *Monotropa uniflora* L. Primulaceae: *Dodecatheon Meadia* L., *Lysimachia ciliata* L., *L. hybrida* Michx., *L. Nummularia* L., *Anagallis arvensis* L., *Samolus parviflorus* Raf. Gentianaceae: *Gentiana Andrewsii* Griseb., *G. crinita* Froel., *G. procera* Holm, *G. quinquefolia* L. var. *occidentalis* (Gray) Hitchc., *Swertia caroliniensis* (Walt.) Ktze. Apocynaceae: *Apocynum cannabinum* L., *A. cannabinum* var. *pubescens* (Mitchell) A. DC. Asclepiadaceae: *Asclepias incarnata* L., *A. syriaca* L., *A. tuberosa* L., *Ampelamus albidus* (Nutt.) Britt. Convolvulaceae: *Ipomoea pandurata* (L.) G.F.W.Mey., *I. purpurea* (L.) Roth., *Convolvulus arvensis* L., *C. sepium* L., *Cuscuta campestris* Yuncker, *C. Cephalanthi* Engelm., *C. Gronovii* Willd.

Polemoniaceae: *Polemonium reptans* L., *Phlox divaricata* L., *P. maculata* L. Hydrophyllaceae: *Hydrophyllum appendiculatum* Michx., *H. canadense* L., *H. macrophyllum* Nutt., *H. virginianum* L., *Phacelia Purshii* Buckl. Boraginaceae: *Echium vulgare* L., *Lithospermum arvense* L., *Cynoglossum officinale* L., *Mertensia virginica* (L.) Pers., *Hackelia virginiana* (L.) I.M.Johnston. Verbenaceae: *Verbena canadensis* (L.) Britt., *V. hastata* L., *V. simplex* Lehm., *V. stricta* Vent., *V. urticifolia* L., *V. urticifolia* var. *leiocarpa* Perry and Fern., *Lippia lanceolata* Michx.

Labiatae: *Isanthus brachiatus* (L.) BSP., *Teucrium canadense* L., *T. occidentale* Gray, *Scutellaria incana* Biehler, *S. lateriflora* L., *S. ovata* Hill, *Marrubium vulgare* L., *Agastache nepetoides* (L.) Ktze., *Nepeta Cataria* L., *Glechoma hederacea* L. var. *micrantha* Moricand, *Prunella vulgaris* L., *P. vulgaris* var. *lanceolata* (Bart.) Fern., *Physostegia virginiana* (L.) Benth., *Synandra hispidula* (Michx.) Baill., *Leonurus Cardiaca* L., *Lamium amplexicaule* L., *L. purpureum* L., *Stachys Riddellii* House, *S. tenuifolia* Willd., *S. tenuifolia* var. *platyphylla* Fern., *Monarda clinopodia* L., *M. fistulosa* L., *M. fistulosa* var. *mollis* (L.) Benth., *Blephilia ciliata* (L.) Benth., *B. hirsuta* (Pursh) Benth., *Hedeoma pulegioides* (L.) Pers., *Satureja micrantha* (Nutt.) Briq., *Pycnanthemum virginianum* (L.) Durand & Jackson, *Lycopus americanus* Muhl., *L. rubellus* Moench, *L. uniflorus* Michx., *Mentha piperita* L., *M. rotundifolia* (L.) Huds., *M. spicata* L., *Collinsonia canadensis* L. Solanaceae: *Solanum carolinense* L., *S. Dulcamara* L., *S. nigrum* L., *Physalis pubescens* L., *P. virginiana* Mill., *Lycium halimifolium* Mill., *Datura Stramonium* L.

Scrophulariaceae: *Verbascum Blattaria* L., *V. Thapsus* L., *Linaria vulgaris* Hill, *Chaenorhinum minus* (L.) Lange, *Collinsia verna* Nutt., *Scrophularia marilandica* L., *Chelone glabra* L. var. *linifolia* Coleman, *Penstemon Digitalis* Nutt., *Mimulus ringens* L., *Conoclea multifida* (Michx.) Benth., *Veronicastrum virginicum* (L.) Farw., *Veronica Anagallis-aquatica* L. f. *anagalliformis* (Boreau) G. Beck, *V. arvensis* L., *V. officinalis* L., *V. serpyllifolia* L., *Gerardia purpurea* L., *Pedicularis lanceolata* Michx. Orobanchaceae: *Epifagus virginiana* (L.) Bart. Acanthaceae: *Justicia americana* (L.) Vahl., *Ruellia caroliniensis* (Walt.) Steud., *R. strepens* L. Phrymaceae: *Phryma Leptostachya* L. Plantaginaceae: *Plantago aristata* Michx., *P. lanceolata* L., *P. Rugelii* Dcne. Rubiaceae: *Galium Aparine* L., *G. asprellum* Michx., *G. circaezans* Michx. var. *hypomalacum* Fern., *G. concinnum* T. & G., *G. triflorum* Michx., *Mitchella repens* L., *Houstonia caerulea* L.

Caprifoliaceae: *Triosteum angustifolium* L., *T. aurantiacum* Bickn., *T. perfoliatum* L. Valerianaceae: *Valeriana officinalis* L., *V. pauciflora* Michx., *Valerianella chenopodifolia* (Pursh) DC., *V. intermedia* Dyal., *V. olitoria* (L.) Poll. Dipsacaceae: *Dipsacus sylvestris* Huds. Cucurbitaceae: *Sicyos angulatus* L., *Echinocystis lobata* (Michx.) T. & G. Campanulaceae: *Specularia perfoliata* (L.) A. DC., *Campanula americana* L., *C. aparinoides* Pursh, *Lobelia Cardinalis* L., *L. inflata* L., *L. Kalmii* L., *L. siphilitica* L., *L. spicata* Lam. var. *campanulata* McVaugh.