

CONTRIBUTION TO THE FLORA OF CASS
COUNTY, ILLINOIS.

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From July 4 to 15, 1905, the author had the opportunity to visit at Virginia, Cass Co., Illinois. During the visit he was able to make several trips in the vicinity, collecting a number of plants and making lists of the species in various areas. It was planned to use this data in connection with some work on the Illinois Flora, but it seems advisable to publish the list now so that it will be available for use. Obviously this list of 393 species is incomplete on account of the limited time at the author's disposal.

Virginia is located at the junction of the B. & O. S. W. and C. P. & St. L. railroads in the south central part of Cass County, some 15 or so miles from the Illinois River. The country around Virginia is upland, with a few streams rising and for the most part flowing towards the Illinois River.

The accompanying sketch map indicates the area visited, the numbers corresponding to those expressed in the accompanying list of plants. Britton and Brown's "Illustrated Flora", 2nd edition, is followed rather closely in the naming of the plants, except in the grasses where Hitchcock's "Genera of Grasses" is used. The names and the arrangement of families agree with that of the natural system as exemplified by Bessey.

The specimens collected are now to be found in the herbaria of the University of Michigan, the Field Museum of Natural History, and the University of Illinois.

LIST OF PLANTS OF CASS COUNTY, ILLINOIS

Phylum—PTERIDOPHYTA.

Fam. Polypodiaceae.

- Onoclea sensibilis* L., 1, 3, 7, 10.
Filix fragilis (L.) Underw., 10.
Asplenium sp., 7.
Adiantum pedatum L., 7.
Pteris aquilina L., 9.

Equisetum pratense Ehrh., 2.*Equisetum laevigatum* A. Br., 2, 9.

Phylum—STROBILOPHYTA.

Thuja occidentalis L., Cultivated in 5.*Juniperus virginiana* L., 5.

Phylum—ANTHOPHYTA.

Class MONOCOTYLEDONEAE.

Fam. Alismataceae.

- Equisetum arvense* L., 2, 6, 8, 9.
Equisetum hyemale L., 2.

Alisma subcordatum Raf., 5, 6.
Sagittaria latifolia Willd., 5.

LIST OF PLANTS OF CASS COUNTY, ILLINOIS—Continued.

Fam. Typhaceae.

Typha latifolia L., 2, 8.

Fam. Liliaceae.

Uvularia grandiflora J. E. Smith, 5, 10.*Hemerocallis fulva* L., 5, 9.*Allium sativum* L., 5.*Lilium canadense* L., 1.*Erythronium albidum* Nutt., 7.*Asparagus officinalis* L., 6.*Vagnera racemosa* (L.) Morong, 10.*Vagnera stellata* (L.) Morong, 3, 7, 10.*Polygonatum biflorum* (Walt.) Ell. 10.*Smilax herbacea* L., 10.*Smilax hispida* Muhl., 10.*Smilax* sp., 1.

Fam. Commelinaceae.

Commelina virginica L., 2.*Tradescantia virginiana* L., 2, 5, 9.*Tradescantia reflexa* Raf., 2.

Fam. Juncaceae.

Juncus tenuis Willd., 5, 8.*Juncus brachycarpus* Engelm., 1.

Fam. Araceae.

Arisaema triphyllum (L.) Torr., 3, 7, 10.*Arisaema dracontium* (L.) Schott., 1, 3, 7, 10.

Fam. Cyperaceae.

Cyperus filiculmis Vahl., 3.*Eleocharis acuminata* (Muhl.) Nees, 2.*Scirpus validus* Vahl., 2, 6, 9.*Scirpus atrovirens* Muhl., 2, 8, 9.*Scirpus lineatus* Michx., 2.*Carex cephalophora* Muhl., 6.*Carex davisii* Schwein. & Torr., 3.*Carex disperma* Dewey., 10.*Carex festucacea* Schkuhr., 6.*Carex frankii* Kunth., 3.*Carex lanuginosa* Michx., 2.*Carex laxiflora* Lam., 3.*Carex rosea* Schk., 10.*Carex shortiana* Dewey, 2.*Carex sparganioides* Muhl., 10.*Carex stipata* Muhl., 10.*Carex stricta* Lam., 2, 6.*Carex vulpinoidea* Michx., 5, 6.

Fam. Poaceae.

Bromus ciliatus L., 3, 7, 10.*Panicularia nervata* (Willd.) Kuntze, 2.*Poa alsodes* A. Gray, 2.*Poa annua* L., 5.*Poa compressa* L., 2, 8, 9.*Poa pratensis* L., 1, 2, 3, 4, 5, 7, 8, 9, 10.*Eragrostis cilianensis* (All.) Link. 2.*Agropyron repens* (L.) Beauv., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.*Triticum aestivum* L., 2, 9.*Secale cereale* L., 9.*Elymus canadensis* L., 1, 2, 8, 9.*Elymus hirsutiglumis* Scribn., 1, 10.*Elymus virginicus* L., 10.*Hystrix patula* Moench., 1, 3, 7, 10.*Hordeum jubatum* L., 2, 4, 5, 6, 8, 9.*Hordeum vulgare* L., 2, 9.*Avena sativa* L., 2, 4, 6, 8, 9.*Calamagrostis canadensis* (Michx.) Beauv., 9.*Calamovilfa longifolia* (Hook.) Scribn., 9.*Agrostis palustris* Huds., 5, 6.*Phleum pratense* L., 2, 4, 5, 6, 8, 9.*Phalaris arundinacea picta* L., 5.*Syntherisma sanguinalis* (L.) Dulac., 2, 5, 6, 7, 8, 9.*Paspalum debile* Michx., (?) 2.*Panicum agrostoides* Spreng., 5.*Panicum capillare* L., 5.*Panicum depauperatum* Muhl., 2.*Panicum latifolium* L., 3, 10.*Panicum huachucae* Ashe., 1, 3, 7, 10.*Echinochloa crusgalli* (L.) Beauv., 5.*Chaetochloa italica* (L.) Scribn., 2.*Chaetochloa lutescens* (Weigel) Stuntz., 5.*Chaetochloa viridis* (L.) Scribn., 5.*Cenchrus pauciflorus* Benth., 2, 4.*Zea mays* L., 2, 5, 6, 9.

Fam. Amaryllidaceae.

Hypoxis hirsuta (L.) Coville., 2.

Fam. Iridaceae.

Iris versicolor L., 2, 10.

Fam. Orchidaceae.

Cypripedium acaule Aiton. (according to residents).*Cypripedium reginae* Walt., 10.*Cypripedium parviflorum* Salisb., 7, 10.

Class—DICOTYLEDONEAE.

Subclass—DICOTYLEDONEAE—

AXIFLORAE.

Fam. Ranunculaceae.

Hydrastis canadensis L. (according to Mr. Collins).*Delphinium ajacis* L., 5.

LIST OF PLANTS OF CASS COUNTY, ILLINOIS—Continued.

Anemone canadensis L., 3, 7, 10.
Ranunculus recurvatus Poir., 10.
Ranunculus septentrionalis Poir., 1.
Thalictrum (formerly called *purpurascens*), 2.
Thalictrum sp? 9.

Fam. Berberidaceae.

Podophyllum peltatum L., 1, 3, 7, 10.

Fam. Menispermaceae.

Menispermum canadense L., 3, 7.

Fam. Lauraceae.

Sassafras sassafras (L.) Karst., 1, 7, 10.

Fam. Malvaceae.

Althaea rosea L., 5, 7.
Malva rotundifolia L., 1, 2, 4, 5, 6, 7, 8, 9.
Callirhoe involucrata (T. & G.) A. Gray, 5.
Abutilon abutilon (L.) Rusby, 2, 4, 5, 6, 8, 9.
Hibiscus trionum L., 2, 4, 5, 6, 8, 9.

Fam. Tiliaceae.

Tilia americana L., 3, 5, 7, 10.

Fam. Ulmaceae.

Ulmus americana L., 3, 5, 7, 10.
Ulmus fulva Michx., 3, 10.

Fam. Moraceae.

Morus rubra L., 1.
Toxylon pomiferum Raf., 6.
Cannabis sativa L., 2, 4, 5, 9.

Fam. Urticaceae.

Urtica gracilis Ait., 3.
Urticastrum divaricatum (L.) Kuntze, 3, 10.
Pilea pumila (L.) A. Gray, 6.
Parietaria pennsylvanica Muhl., 1, 3, 5, 6, 7, 10.

Fam. Oxalidaceae.

Xanthoxalis stricta (L.) Small., 2, 5, 7.
Xanthoxalis cymosa Small., 3, 7, 10.
Xanthoxalis sp., 9.

Fam. Balsaminaceae.

Impatiens biflorum Walt., 2, 10.

Fam. Linaceae.

Linum usitatissimum L., 2, 9.

Fam. Rutaceae.

Zanthoxylum americanum Mill., 10.
Ptelea trifoliata L., 7.

Fam. Euphorbiaceae.

Croton glandulosus L., 5.
Chamaesyce maculata (L.) Small, 2, 6.
Chamaesyce preslii (Guss.) Arthur, 2.
Tithymalopsis corollata (L.) Kl. & Garcke, 2, 4, 5, 6.

Fam. Violaceae.

Viola papilionacea Pursh., 7, 10.
Viola eriocarpa Schwein., 10.

Fam. Papaveraceae

(including *Fumariaceae*).

Bicuculla cucullaria (L.) Millsp., 7.

Fam. Brassicaceae.

Bursa bursa-pastoris (L.) Britton, 2, 4, 5, 6, 8, 9.
Radicula palustris (L.) Moench., 2, 5, 6, 9.
Armoracia armoracia (L.) Britton, 5, 6.
Lepidium virginicum L., 2, 4, 5, 6, 8, 9.
Lepidium densiflorum Schrad., 5.
Lepidium sativum L., 6.
Erysimum officinale L., 2, 4, 5, 6, 8, 9.
Norta altissima (L.) Britton., 2, 5, 6, 9.
Cardamine pennsylvanica Muhl., 2.
Sinapis alba L., 9.
Sinapis arvensis L., 5, 6, 9.
Brassica nigra (L.) Koch., 5.
Brassica campestris L., 6.
Brassica oleracea L., 2, 5, 6.
Raphanus sativus L., 2, 5.

Fam. Caryophyllaceae.

Silene stellata (L.) Ait., 10.
Silene antirrhina L., 2, 6, 8, 9.
Saponaria officinalis L., 2, 5, 9.
Vaccaria vaccaria (L.) Britton, 2.
Alsine media L., 1, 2, 5, 7.

Fam. Portulacaceae.

Claytonia virginica L., 3, 7, 10.
Portulaca oleracea L., 2, 5, 6, 7.

Fam. Aizoaceae.

Mollugo verticillata L., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.

LIST OF PLANTS OF CASS COUNTY, ILLINOIS—Continued.

Fam. Salicaceae.

- Populus alba* L., 5.
Populus tremuloides Michx., 1.
Populus deltoides Marsh., 2, 5.
Salix alba L., 1, 2, 10.
Salix humilis Marsh., 1.
Salix spp.

Fam. Amaranthaceae.

- Amaranthus retroflexus* L., 2, 4, 5,
 6, 8, 9.
Amaranthus blitoides S. Wats., 5, 7.
Amaranthus graecizans L., 2.
Acnida tamariscina (Nutt.) Wood.,
 6.

Fam. Chenopodiaceae.

- Chenopodium album* L., 5, 7, 9.
Chenopodium leptophyllum (Moq.)
 Nutt., 5.
Chenopodium hybridum L., 5.
Cycloloma atriplicifolium (Spreng.)
 Coult., 2, 9.
Atriplex hastata L., 2, 5, 8, 9.
Salsola pestifer A. Nelson, 2, 4, 5, 8,
 9.

Fam. Polygonaceae.

- Rumex acetosella* L., 2, 5, 9.
Rumex altissimus Wood., 2.
Rumex crispus L., 2, 4, 5, 8, 9.
Rumex obtusifolius L., 10.
Polygonum aviculare L., 2, 8, 9.
Polygonum virginianum L., 7.
Persicaria lapathifolia (L.) S. F.
 Gray, 5.
Persicaria pennsylvanica (L.) Small,
 5.
Persicaria persicaria (L.) Small, 5.
Persicaria orientalis (L.) Spach, 5.
Fagopyrum fagopyrum (L.) Karst.,
 5.
Tiniaria convolvulus (L.) Webb &
 Moq., 2, 4, 5, 8, 9.

Fam. Nyctaginaceae.

- Allionia nyctaginea* Michx., 9.

Fam. Plantaginaceae.

- Plantago major* L., 5, 6.
Plantago rugelii Dcne., 5, 6, 9.
Plantago aristata Michx., 2, 8, 9.

Fam. Ericaceae.

- Vaccinium* sp., 7.

Fam. Ebenaceae.

- Diospyros virginiana* L., 7.

Fam. Polemoniaceae.

- Phlox pilosa* L., 2.
Phlox divaricata L., 7, 10.

Fam. Convolvulaceae.

- Ipomoea pandurata* (L.) Meyer, 9.
Ipomoea purpurea (L.) Lam., 5.
Ipomoea hederacea Jacq., 2, 4.
Convolvulus sepium L., 1, 2, 3, 4, 5,
 6, 7, 8, 9, 10.
Convolvulus arvensis L., 6.

Fam. Boraginaceae.

- Cynoglossum officinale* L., 10.
Mertensia virginica (L.) DC., 7.

Fam. Solanaceae.

- Physalis virginiana* Mill., 2, 5, 8, 9.
Physalis heterophylla Nees, 9.
Solanum nigrum L., 5.
Solanum carolinense L., 2, 8, 9.
Solanum tuberosum L., 5.
Lycopersicon lycopersicon (L.)
 Karst., 3.
Lycium halimifolium Mill., 5.
Datura stramonium L., 1, 2, 3, 4, 5,
 6, 8, 9.

Fam. Oleaceae.

- Syringa vulgaris* L., 5.
Fraxinus americana L., 1, 10.
Fraxinus nigra Marsh., 3.

Fam. Apocynaceae.

- Apocynum androsaemifolium* L., 5, 6.
Apocynum cannabinum L., 3.

Fam. Asclepiadaceae.

- Asclepias tuberosa* L., 2, 5, 8, 9.
Asclepias variegata L., 9.
Asclepias syriaca L., 2, 4, 5, 6, 8, 9.
Asclepias verticillata L., 2, 8.
Acerates viridiflora (Raf.) Eaton, 9.

Fam. Scrophulariaceae.

- Verbascum thapsus* L., 5, 9.
Scrophularia leporella Bicknell, 5.
Veronica peregrina L., 5.
Leptandra virginica (L.) Nutt., 8, 10.
Dasystoma grandiflora (Benth.)
 Wood, 10.

Fam. Acanthaceae.

- Ruellia* sp., 2, 9.

Fam. Phrymaceae.

- Phryma leptostachya* L., 3, 7, 10.

Fam. Verbenaceae.

- Verbena urticifolia* L., 4, 5, 6, 8, 9.
Verbena hastata L., 10.
Verbena angustifolia Michx., 10.
Verbena stricta Vent., 2, 4, 5, 8, 9.
Verbena bracteosa Michx., 2, 8, 9.
Lippia lanceolata Michx., 6, 10.

LIST OF PLANTS OF CASS COUNTY, ILLINOIS—Continued.

Fam. Lamiaceae.

- Teucrium canadense* L., 2, 9, 10.
Teucrium occidentale A. Gray, 10.
Nepeta cataria L., 2, 5, 7.
Glechoma hederacea L., 3.
Prunella vulgaris L., 2, 9.
Leonurus cardiaca L., 5.
Stachys palustris L., 10.
Monarda fistulosa L., 8, 9.
Blephilia hirsuta (Pursh) Torr., 10.
Koellia virginiana (L.) MacM., 1, 2, 4, 7.
Lycopus virginicus L., 10.

Subclass—DICOTYLEDONEAE—
CALYCIFLORAE.

Fam. Rosaceae.

- Opulaster intermedius* Rydb., 1, 7.
Potentilla monspeliensis L., 5, 9.
Fragaria virginiana Duchesne, 2.
Drymocallis agrimonioides (Pursh) Rydb., 9.
Agrimonia gryposepala Wallr., 1, 3, 7, 10.
Geum canadense Jacq., 5.
Geum strictum Ait., 1, 2.
Rubus strigosus Michx., 1, 7, 10.
Rubus occidentalis L., 10.
Rubus sp? (blackberry), 1, 10.
Rosa blanda Ait., 9.
Rosa virginiana Mill., 6, 9.

Fam. Malaceae.

- Malus ioensis* (Wood) Britton, 1, 7, 10.
Crataegus crus-galli L., 1, 7, 10.
Crataegus succulenta Schrader, 7.
Crataegus spp. (About 6 additional species.)

Fam. Prunaceae.

- Prunus americana* Marsh., 1, 10.
Padus nana (DuRoi) Roemer, 10.
Padus virginiana (L.) Mill., 7, 10.

Fam. Cassiaceae.

- Cercis canadensis* L., 3, 7, 10.
Chamaecrista fasciculata (Michx.) Greene, 2, 8, 9.
Gleditsia triacanthos L., 1, 2, 3, 5, 8, 9.

Fam. Fabaceae.

- Baptisia leucantha* T. & G., 6.
Melilotus alba Desv., 2, 4, 5, 6, 9.
Melilotus officinalis (L.) Lam., 5, 6.
Trifolium pratense L., 2, 4, 5, 6, 8, 9.
Trifolium hybridum L., 5, 6.
Trifolium repens L., 5, 6.
Amorpha canescens Pursh., 9.

- Petalostemum candidum* (Willd.) Michx., 2, 8, 9.

- Petalostemum purpureum* (Vent.) Rydb., 2, 8, 9.

- Robinia pseudoacacia* L., 5.

- Meibomia nudiflora* (L.) Kuntze, 10.

- Meibomia grandiflora* (Walt.) Kuntze, 10.

- Meibomia illinoensis* (A. Gray) Kuntze, 9.

- Meibomia canadensis* (L.) Kuntze, 2, 8, 9.

- Lespedeza capitata* Michx., 6.

- Falcata comosa* (L.) Kuntze, 1, 7, 10.

- Strophostyles helvola* (L.) Britton, 2, 9.

Fam. Saxifragaceae.

- Penthorum sedoides* L., 2, 9.

- Mitella diphylla* L., 10.

Fam. Grossulariaceae.

- Ribes americanum* Mill., 7.

- Ribes* sp? 5.

Fam. Hamamelidaceae.

- Hamamelis virginiana* L., 10.

Fam. Lythraceae.

- Lythrum alatum* Pursh., 2, 3, 5, 6, 8, 9.

Fam. Oenotheraceae.

- Oenothera biennis* L., 2, 6, 9.

- Oenothera rhombipetala* Nutt., 6, 9.

- Kneiffia fruticosa* (L.) Raimann, 9.

- Circaea lutetiana* L., 1, 7.

- Circaea intermedia* Ehrh., 3.

Fam. Cucurbitaceae.

- Micrampelis lobata* (Michx.) Greene, 5.

Fam. Vitaceae.

- Vitis vulpina* L., 3, 6, 10.

- Vitis palmata* Vahl, 7.

- Vitis labrusca* L., 10.

- Parthenocissus quinquefolia* (L.) Planch., 1, 3, 5, 6, 10.

Fam. Celastraceae.

- Celastrus scandens* L., 10.

Fam. Aceraceae.

- Acer saccharinum* L., 5.

- Acer saccharum* Marsh., 1, 3, 7, 10.

- Acer negundo* L., 1, 5, 10.

Fam. Anacardiaceae.

- Rhus hirta* (L.) Sudw., 1.

- Rhus glabra* L., 1, 10.

- Schmaltzia crenata* (Mill.) Greene, 10.

LIST OF PLANTS OF CASS COUNTY, ILLINOIS—Concluded.

Toxicodendron radicans (L.) Kuntze
1, 2, 3, 5, 6, 7, 8, 9, 10.
Cotinus americanus Nutt., 7.

Fam. Juglandaceae.

Juglans nigra L., 1.
Hicoria ovata (Mill.) Britton, 10.
Hicoria glabra (Mill.) Britton, 1, 10.

Fam. Betulaceae.

Corylus americana Walt., 1, 7, 10.

Fam. Fagaceae.

Castanea dentata (Marsh.) Borkh., 5
(cultivated).
Quercus velutina Lam., 1, 3, 5, 10
Quercus alba L., 1, 3, 5, 10.
Quercus muhlenbergii Engelm., 10.

Fam. Araliaceae.

Panax quinquefolium L., 7.

Fam. Apiaceae.

Eryngium aquaticum L., 9.
Sanicula canadensis L., 3.
Daucus carota L., 5.
Deringa canadensis (L.) Kuntze, 3.
Pastinaca sativa L., 9.
Zizia aurea (L.) Koch, 2, 6, 8, 9.
Sium cicutae-folium Schrank, 1.
Carum carui L., 9.

Fam. Rubiaceae.

Diodia teres Walt., 6.
Galium aparine L., 1, 7, 10.
Galium circaezans Michx., 3.
Galium concinnum Torr and Gray,
10.

Fam. Caprifoliaceae.

Sambucus canadensis L., 2, 4, 7, 8,
9, 10.
Sambucus racemosa L., 10.
Viburnum lentago L., 7, 10.
Triosteum perfoliatum L., 7.
Triosteum aurantiacum Bicknell, 7.
Lonicera sp., 7.

Fam. Campanulaceae.

Campanula americana L., 10.
Specularia perfoliata (L.) A. DC.,
10.
Lobelia leptostachys A. DC., 7, 10.
Lobelia inflata L., 7.

Fam. "Compositae".

Silphium perfoliatum L., 2.
Silphium laciniatum L., 8, 9.
Silphium terebinthinaceum Jacq., 2,
8, 9.
Heliopsis scabra Dunal, 5, 10.
Rudbeckia triloba L., 9.

Rudbeckia hirta L., 2, 8, 9.
Ratibida pinnata (Vent.) Barnhart,
9.

Echinacea purpurea (L.) Moench, 9,
rare.

Helianthus annuus L., 5.
Helianthus atrorubens L., 2.
Helianthus occidentalis Riddell, 5.
Helianthus petiolaris Nutt., 2.
Helianthus giganteus L., 10.
Helianthus grosseserratus Martens,
2, 9.

Helianthus divaricatus L., 10.
Helianthus strumosus L., 10.
Phaethusa helianthoides (Michx.)
Britton, cemetery.

Bidens sp., ? 5.

Ambrosia trifida L., 10.
Ambrosia elatior L., 2, 4, 5, 6, 8, 9.
Ambrosia psilostachya DC., 2, 9.
Xanthium sp? 2, 4, 5, 6, 8, 9.
Antennaria plantaginifolia (L.)
Richards, 10.

Solidago canadensis L., 9.
Solidago nemoralis Aiton, 9.
Solidago rigida L., 9.
Chrysopsis villosa (Pursh) Nutt., 9.
Aster divaricatus L., 10.
Aster cordifolius L., 1.
Aster novae-angliae L., 10.
Aster sericeus Vent., 2.
Aster dumosus L., 2.
Erigeron pulchellus Michx., 9.
Erigeron philadelphicus L., 9.
Erigeron annuus (L.) Pers., 5.
Erigeron ramosus (Walt.) B. S. P.,
5, 6.

Erigeron canadensis L., 5.
Doellingeria umbellata (Mill.) Nees,
10.

Iopactis linariifolius (L.) Greene, 9.
Vernonia fasciculata Michx., 5, 6.
Eupatorium purpureum L., 7.
Eupatorium perfoliatum L., 7.
Achillea millefolium L., 5.
Anthemis cotula L., 5, 6, 7.
Arctium minus Schk., 4, 5, 6.
Cirsium lanceolatum (L.) Hill, 4, 5,
6.

Cirsium discolor (Muhl.) Spreng., 9.
Cirsium arvense (L.) Scop., 2, 4, 5,
6, 8, 9.

Centaurea cyanus L., 5.
Taraxacum officinale Weber, 5.
Sonchus oleraceus L., 1.
Sonchus asper (L.) Hill, 5.
Lactuca virosa L., 5.
Lactuca canadensis L., 5, 7.
Lactuca sagittifolia Ell., 2, 5.
Nabalus albus (L.) Hook, 7, 10.