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PLANTS NEW TO THE FLORA OF DECATUR COUNTY,
IOWA.

BY J. P. ANDERSON.

In this paper it is the intention of the writer to enumerate only such species as have not before been reported from the above named county in any of the papers presented to this Academy. Duplications may occur but we have tried to avoid them. This list brings the total of the flowering plants reported from this one county up to about 628. Work done on other groups is not now in proper shape for presentation. Great care has been exercised in the determination of species and several species have been omitted from this list because of some doubt as to the accuracy of the determination. The nomenclature here used is that of Britton and Brown's Illustrated Flora.

SPARGANIACEÆ.

Sparganium eurycarpum Engelm. Broad-fruited Bur-reed. Occurs along the edges of a pond near Grand river.

NAIADACEÆ.

Potamogeton pusillus L. Small Pondweed. Abundant in some ponds east of Davis City. I have also found it near Lamoni. June 23, 1900.

Potamogeton lonchites Tuckerm. Long-fruited Pondweed. In a pond near the Weldon river. July 28, 1900.

ALISMACEÆ.

Sagittaria rigida Pursh. Sessile-fruited Arrowhead. In ponds near the Grand River. July 24, 1899.

Sagittaria graminea Michx. Grass-leaved Sagittaria. In some railroad ponds near Davis City. August 13, 1903.

GRAMINEÆ.

Panicum proliferum Lam. Spreading Panicum. Roadside and wastes. Common. September 3, 1903.

Panicum depauperatum Mühl. Starved Panicum. Dry soil. Frequent. June 6, 1898.

Panicum leibergii Scribne. Leiberg's Panicum. June 6, 1898.

Zizania aquatica L. Wild Rice. In a swamp near the Grand river. July 24, 1899.

Phalaris arundinacea L. Reed Canary-grass. In wet soil. Frequent. July 6, 1898.

Alopecurus geniculatus L. Marsh Fox-tail. Wet or marshy soil. June 15, 1901.

Agrostis hyemalis (Walt.) B. S. P. Rough Hair-grass. June 9, 1898.

Melica mutica Walt. Narrow-leaved Melic Grass. Frequent in woods.

Eragrostis frankii Steud. Frank's Eragrostis. Grows on moist soil. August 18, 1898.

Eragrostis capillaris (L.) Nees. Capillary Eragrostis. Dry soil. September 3, 1898.

Eragrostis pectinacea (Michx.) Steud. Purple Eragrostis. Upland meadows. Frequent.

CYPERACEÆ.

Cyperus erythrorhizos Muhl. Red-rooted Cyperus. Wet, sandy soil. Frequent. July 29, 1897.

Eleocharis acicularis (L.) R. & S. Wet or swampy soil. 1903.

Carex lupulina Muhl. Hop Sedge. Wet soil. Moderately frequent. July 1, 1897.

Carex pubescens Muhl. Pubescent Sedge. Woods. June 6, 1898.

Carex stricta Lam. Tussock Sedge. Wet soil. May 23, 1898.

Carex davisii Schwein & Torr. Davis' Sedge. Moist woods. June 15, 1901.

Carex bicknellii Britton. Bicknell's Sedge. Dry soil. June 6, 1898.

Carex stipata Muhl. Awl-fruited Sedge. Wet soil. June 6, 1898.

Carex cephalophora Muhl. Oval-headed Sedge. Dry soil. June 6, 1898.

Carex asa-grayi Bailey. Gray's Sedge. Wet soil. Infrequent. June 6, 1898.

Carex cristatella Britton. Crested Sedge. Meadows. June 6, 1898.

Carex tetanica Schk. Wood's Sedge. Meadows. May 19, 1898.

ARACEÆ.

Acorus calamus L. Sweet Flag, Swampy ground. July 24, 1899.

LEMNACEÆ.

Lemna trisulca L. Ivy-leaved or Star Duckweed. Ponds. Infrequent.

PONTEDERIACEÆ.

Pontederia cordata L. Pickeral Weed. Swampy ground and edges of pond. Infrequent. July 24, 1899.

SMILACEÆ.

Smilax ecirrhata (Engelm.) S. Wats. Upright Smilax. Woods. Infrequent. May 23, 1898.

LILIACEÆ.

Quamasia hyacinthiana (Raf.) Britton. Wild Hyacinth. Once reported to this academy as *Zygadenus elegans* Pursh. Frequent locally. May 23, 1898.

ORCHIDACEÆ.

Cypripedium candidum Willd. Small White Lady's Slipper. A bunch of four found on a seepy bluff. May 28, 1904.

Leptorchis liliifolia (L.) Kuntze. Large Twayblade. Woods. Rare. July 21, 1900.

SALICACEÆ.

Salix fluviatilis Nutt. Sandbar Willow. Along streams.

POLYGONACEÆ.

Rumex crispus L. Curled Dock. Fields and waste places.

Rumex patientia L. Patience Dock. Along a roadside near Leon.

Rumex obtusifolius L. Broad-leaved or Bitter Dock. Fields and meadows. Introduced with clover seed.

Polygonum orientale L. Prince's Feather. Waste places. September 10, 1898.

Polygonum incarnatum Ell. Slender Pink Persicaria. Wet fields and wastes. August 18, 1898.

Polygonum lapathifolium L. Dock-leaved Persicaria. Fields and wastes. A weed. July 15, 1898.

Polygonum punctatum Ell. Water Smartweed. Wet soil. Collected several times.

CARYOPHYLLACEÆ.

Silene noctiflora L. Night-flowering Catchfly. Fields and wastes. Introduced in clover seed. June 27, 1902.

Cerastium vulgatum L. Larger Mouse-ear Chickweed. Grows in waste places. Is not as widely distributed locally as *C. longi-pedunculatum* Muhl.

NYMPHÆACEÆ.

Nelumbo lutea (Willd.) Pers. American Nelumbo or Lotus. In a pond near the Weldon river. July 28, 1900.

BERBERIDACEÆ.

Berberis vulgaris L. European Barberry. Occurs on the border of a wood southwest of Lamoni.

CRUCIFERÆ.

Camelina sativa (L.) Crantz. Gold of Pleasure. False Flax. One specimen found in a meadow. May 6, 1902.

ROSACEÆ.

Fragaria americana (Porter) Britton. American Wood Strawberry. Woods. Frequent. May, 1898.

PAPILIONACEÆ.

Trifolium reflexum L. Buffalo Clover. A single plant found on a wooded bluff. June 6, 1898.

Astragalus distortus T. & G. Bent Milk Vetch. Dry prairie soil. May 26, 1903.

Lespedeza virginica (L.) Britton. Slender Bush-clover. Dry open woods. September 13, 1902.

HYPERICACEÆ.

Hypericum ascyron L. Great Saint John's Wort. Occurs in some bushland north of Lamoni. July 21, 1900.

VIOLACEÆ.

Viola domestica Bicknell. Yard Violet. In cultivated soil. Rare. September 28, 1897.

THYMELEACEÆ.

Dirca palustris L. Leather-wood. Woods along Grand river. Frequent locally.

HALORAGIDACEÆ.

Myriophyllum pinnatum (Walt.) B. S. P. Pinnate Water-milfoil. Ponds. August 10, 1899.

CORNACEÆ.

Cornus circinata L. Her. Round-leaved Dogwood. Borders of woods, etc. May 29, 1904.

PRIMULACEÆ.

Steironema lanceolatum (Walt.) A. Gray. Lance-leaved Loosestrife. Wet soil. Frequent on the lowlands of Grand and Little rivers.

ASCLEPIADACEÆ.

Asclepias sullivantii Engelm. Sullivant's Milkweed. Moist soil. July 22, 1903.

Asclepias exaltata (L.) Muhl. Poke or Tall Milkweed. Woods. Infrequent. June 15, 1901.

Asclepias quadrifolia Jacq. Four-leaved Milkweed. Woods. Infrequent. June 15, 1901.

VERBENIACEÆ.

The following hybrids have been recognized:

Verbena hastata X *V. stricta*.

Verbena urticifolia X *V. bracteosa*.

LABIATÆ.

Phystegia virginiana (L.) Benth. False Dragon-head. Abundant in a swale near Grand river. August, 1899, but not since observed.

SCROPHULARIACEÆ.

Scrophularia laporella Bicknell. Hare Figwort. Several specimens found along the railroad right of way east of Lamoni. May 27, 1903.

Monniera rotundifolia Michx. Round-leaved Hedge-hyssup. A small quantity found along the edge of a railroad pond near Davis City. August 13, 1903.

CAPRIFOLIACEÆ.

Lonicera sullivanii A. Gray. Sullivants Honeysuckle. Wooded bluffs. Rather infrequent. June.

CUCURBITACEÆ.

Sicyos angulatus L. One-seeded Bur-cucumber. A quantity found along the roadside near Leon. September 4, 1899.

CICHORIACEÆ.

Sonchus oleraceus L. Annual Sow-thistle. Waste places. Frequent about towns.

Nothocalais cuspidata (Pursh.) Greene. False Calais. Dry rocky roadsides. May 17, 1902.

COMPOSITÆ.

Erigeron annuus (L.) Pers. Daisy Fleabane. Sweet Scabious. Meadows and pastures. Common. June 6, 1898.