
SOME OKLAHOMA AQUATIC VASCULAR PLANTS

ROBERT STRATTON, Oklahoma A. and M. College, Stillwater

Since no complete flora covering the ferns and flowering plants of Oklahoma has been published, and since very little has been published regarding the aquatic and semiaquatic vascular plants of this State, the following list has been compiled with the hope that it may be of some value in preparing a *Flora of Oklahoma*, and also in extending the known distribution of a few species not previously listed for the State. No doubt, owing to the development of many large artificial lakes and thousands of small ponds, many more species of aquatic flowering plants, not hitherto reported for Oklahoma, will be found within the State.

The following are thought to be new for the State:

Leersia lenticularis Michx.

Nymphoides peltatum (Gmel.) Britten and Rendle

Cyperus ovularis (Michx.) Torr. var. *sphaericus* Boeckl.

Fuirena breviseta Coville

Pimbristyllis autumnalis (L.) R. & S. var. *mucronulata* (Michx.) Fernald

Specimens of all the species and varieties listed in this paper have been deposited in the Oklahoma A. and M. College Herbarium and most of them also in the Gray Herbarium, Cambridge, Mass.

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Collections of the species included in this report have been made, by various workers, from the counties indicated. The distribution shown is far from complete for the State.

AIZOACEAE

Glinus lotoides Loefl. Bryan, Garvin, Rogers

ALISMACEAE

Echinodorus cordifolius (L.) Griseb. Bryan, Canadian, Cleveland, Custer,
(*Echinodorus rostratus* (Nutt.)
Engelm. Murray, Oklahoma, Payne, Rogers,
Washington

Sagittaria graminea Michx. Bryan, Comanche, Creek?, Latimer, Le
Flore, Ottawa, Pittsburg, Rogers

Sagittaria latifolia Willd. Ottawa, Seminole, Woods

Sagittaria latifolia Willd. f. *hastata*
(Pursh) Robinson Kingfisher, Noble, Payne

Sagittaria platyphylla (Engelm.) J. Bryan
G. Smith

CERATOPHYLLACEAE

Ceratophyllum demersum L. Cotton, Delaware, Harmon, Harper,
Payne, Rogers

DRUCIFERAE

Nasturtium officinale R. Br. Bryan, Carter, Cherokee, Cleveland,
Delaware, Harper, Murray

CYPERACEAE

Cyperus acuminatus Torr. & Hook. Bryan, Carter, Choctaw, Cleveland,
Comanche, Craig, Custer, Kay, Le
Flore, McClain, Murray, Muskogee,
Oklahoma, Ottawa, Payne, Potta-
watomie, Rogers, Washington

Cyperus odoratus L. Bryan, Ottawa

Cyperus ovularis (Michx.) Torr. var.
sphaericus Boeckl. Bryan

Cyperus strigosus Michx. Bryan, Cleveland, Comanche, McCur-
tain, Muskogee, Oklahoma, Ottawa,
Pittsburg, Pushmataha

Eleocharis obtusa (Willd.) Schultes Bryan, Creek, Kay, McCurtain, Mus-
kogee, Osage, Ottawa, Washington

Eleocharis quadrangulata (Michx.)
R. & S. Bryan

Eleocharis radicans (Poir.) Kunth Bryan

Fimbristylis autumnalis (L.) Roem.
& Schultes var. *mucronulata*
(Michx.) Fernald Bryan

Fimbristylis autumnalis (L.) Roem. Bryan, Cleveland, Murray?, Musko-
& Schultes gee?, Oklahoma?, Osage, Ottawa

Fuirena brevifolia Coville Bryan

Scirpus validus Vahl. var. *creber*
Fernald Bryan, Cleveland, Major, Ottawa

Scirpus atrovirens Muhl. Le Flore, McCurtain, Muskogee,
Payne, Pottawatomie

EQUISETACEAE

- Equisetum hyemale* var. *robustum* (A.Br.) A. A. Eaton Canadian, Cherokee, Cleveland, Logan, Murray, Osage, Payne, Pottawatomie

GENTIANACEAE

- Nymphoides peltatum* (Gmel.) Britten & Rendle Bryan

GRAMINEAE

- Leersia lenticularis* Michx. Rogers

JUNCACEAE

- Juncus polycephalus* Michx. Bryan, Hughes, Le Flore, McCurtain, Murray, Muskogee, Oklahoma, Pushmataha

- Juncus Torreyi* Coville Beaver, Canadian, Cleveland, Comanche, Custer, Dewey, Greer, Jefferson, Logan, McClain, McCurtain, Murray, Muskogee, Oklahoma, Payne, Wagoner, Woods

LYTHRACEAE

- Ammannia auriculata* Willd. Bryan, Cleveland, Comanche, Garfield, Muskogee, Oklahoma, Payne, Washita

NAJADACEAE

- Potamogeton nodosus* Poir. Bryan, Comanche, Creek

ONAGRACEAE

- Jussiaea decurrens* (Walt.) DC. Bryan, Creek, Latimer, McClain, McCurtain, Muskogee, Ottawa, Pittsburg

- Jussiaea repens* L. var. *glabrescens* O. Kuntze Atoka, Craig, Creek, Rogers, Washington

POLYGONACEAE

- Polygonum lapathifolium* L. Bryan, Cotton, Creek, Garfield, Greer, Harmon, Johnston, Major, Murray, Muskogee, Oklahoma, Payne, Pittsburg, Washita

- Polygonum muhlenbergii* (Meisn.) Wats. Custer, Payne, Pittsburg, Washington
(*P. coccineum* Muhl. f. *terrestre* (Willd.) Stanford)

PONTEDERIACEAE

- Heteranthera dubia* (Jacq.) MacM. Bryan, Delaware, Payne
Heteranthera limosa (Sw.) Willd. Cleveland, Comanche, Murray, Payne

SCROPHULARIACEAE

- Bacopa rotundifolia* (Michx.) Wettst. Comanche, Custer, Johnston, Pittsburg

Mimulus glabratus HBK. var. *fremontii* (Benth.) Grant (*M. glabratus* HBK. var. *jamesii* (T. & G.) Gray)

Beaver, Bryan, Cleveland, Harper,
Love, Major, Woods

UMBELLIFERAE

Hydrocotyle ranunculoides L. f.

Bryan, Choctaw

VERBENACEAE

Lippia lanceolata Michx.

Caddo, Cleveland, Craig, Ouster,
Greer, Kay, Kingfisher, McClain,
McCurtain, Muskogee, Oklahoma,
Ottawa, Payne, Rogers, Woodward
