

nerve, continuous with stipe and style, gives off parallel transverse nerves which anastomose at the edge of the body, forming a "circumvallation." In variety *cryptoneura* (so named because the fruit does not show the transverse body nerves and their anastomoses at the inner edge of the wing) the stipe of an unskeletonized samara shows but one nerve, notwithstanding the fact that the two lateral nerves are as well developed as in *P. mollis*, and can be exhibited by removing the overlying tissues. Since in these two plants the presence or absence of "circumvallation" depends upon the varying thickness of the loosely cellular tissue under the epidermis, I have not regarded it as of more than varietal worth.

***Ptelea mollis* var. *cryptoneura* var. nov.** Frutex humilis patens, ramulis atro-purpureis, vetustioribus glabris, junioribus puberulis. Folia matura coriacea crenata, supra pallido-viridia sparsim crispo-pubescentia, subtus albicantia perdense pubescentia; foliolis ovatis apice acutiusculis, obtusis vel rotundatis, lateralibus basi abrupte angustatis; terminali lateralibus dimidio longiore, basi sensim angustato. Samarae 1.7–2.2 cm. longae, ovatae, vel fere orbiculares, apice emarginatae; centro nervos transversos et eorum confluentes ad alae insertionem solum obscurius exhibente, dense fusco-punctato; ala pallido-straminea sparsim punctata.—*Bartlett* 951, 1 Sept., 1907, and 1748, 10 Aug., 1909, sand-hills and pine barrens near Thomson, McDuffie Co., Georgia. This variety differs from the specimens of *Ptelea mollis* distributed by the Biltmore Herbarium in the following minor points besides those already enumerated:—the leaflets are not abruptly acute at the apex; the body of the samara is more densely punctate; the samara is more nearly orbicular; the twigs are not glabrate until their second season.

BUREAU OF PLANT INDUSTRY, Washington, D. C.

## REPORTS ON THE FLORA OF THE BOSTON DISTRICT,—X.

In the genus *Scirpus* there are seven species or varieties which have been reported from only a single place, while numerous others have only a few known stations. Three or four of these are recent segregates, which have not been collected much since their characteristics



were pointed out, and two or three of the varieties are local forms not very frequent anywhere. This leaves about twelve which are distinctly rare in our section. A few of these are northern, but several of them seem to be stragglers from the pine-barren region further south. There is no reason why a careful search of the district should not reveal other ponds as rich as Winter Pond and Heard's Pond, but thus far the quest has not been successful. There are still numerous unexplored ponds in the district, and a large number just south of our borders. The questions of distribution raised by such facts as are stated here are most interesting, and should lead to more field work.

### CYPERACEAE.

#### SCIRPUS.

**S. americanus** Pers. Mud and gravel near salt and fresh water. Abundant in eastern half of district, but only one station (Wayland) reported in western towns.

**S. atrocinctus** Fernald. Bogs and swales. Unreported from southeastern section, but fairly common elsewhere.

**S. atrocinctus** Fernald, var. **brachypodus** Fernald. Salisbury (*A. A. Eaton*, 1898); Amesbury (*A. A. Eaton*, Aug. 28, 1897); Reading (*C. E. Perkins*, July 12, 1882).

**S. atrovirens** Muhlb. Andover (*A. S. Pease*, July 21, 1901); moist soil, Westford (*W. H. Manning*, Aug. 9, 1882); Medford Branch R. R., Medford (*Wm. Boott*, July 23, 1867); field, Medford (*Wm. Boott*, July 12, 1868); damp woods, Moose Hill, Sharon (*W. P. Rich*, July 12, 1896).

**S. campestris** Britton, var. **Fernaldi** (Bicknell) Bartlett. Kernwood, Salem, some specimens over five feet high (*J. Robinson*, July 27, 1879); banks of Mystic River, Medford (*Wm. Boott*, Aug. 23, 1859).

**S. campestris** Britton, var. **novae-angliae** (Britton) Fernald. Salt marsh, Ipswich (*J. H. Sears*, Aug. 24, 1886); Somerville (*C. E. Perkins*, Aug. 26, 1879); Watertown (*C. E. Perkins*, July 17, 1880); shallow water in brackish marsh, Scituate (*W. P. Rich & E. F. Williams*, Sept. 8, 1901).

**S. campestris** Britton, var. **paludosus** (A. Nelson) Fernald. Salt marshes, abundant along the coast.

**S. cyperinus** (L.) Kunth. Swamps and shores of ponds. Not



reported from northwestern portion of district, but apparently frequent elsewhere.

**S. cyperinus** (L.) Kunth, var. **Andrewsii** Fernald. Glacialis, Cambridge (*M. L. Fernald*, Oct. 16, 1905).

**S. cyperinus** (L.) Kunth, var. **condensatus** Fernald. Swamp east of Glacialis Pond, Cambridge (*H. H. Bartlett*, Oct. 17, 1905); railway near Hammond's Pond marshes, Newton (*Wm. Boott*, Aug. 23, 1884); burned place, low ground, Cliff Road, Wellesley (*K. M. Wiegand*, July 27, 1908); swamp, Hingham (*C. H. Knowlton*, Sept. 18, 1910).

**S. cyperinus** (L.) Kunth, var. **pelius** Fernald. Swamps, marshes and pond borders. Reported from several well-distributed stations, and probably common throughout.

**S. debilis** Pursh. Swamps and sandy shores of ponds. Frequent in central and northeastern portions of district.

**S. debilis** Pursh, var. **Williamsii** Fernald. Massapoag Pond, Sharon (*G. G. Kennedy*, Aug. 31, 1892; *E. F. Williams & M. L. Fernald*, Sept. 7, 1901; other collections since. This is the type station, and the plant has never been collected elsewhere. Published in RHODORA III, 252, 1901.

**S. fluviatilis** (Torr.) Gray. Ipswich River (*J. Robinson*, Aug. 22-23, 1876); Lawrence (*J. Robinson*, Sept. 26, 1877); Brighton (*C. E. Perkins*, June 30, 1879); in deep water, Heard's Pond, Wayland (*G. G. Kennedy*, Aug. 22, 1910).

**S. georgianus** Harper. Moist soil; frequent in northern and central portions, doubtless common throughout.

**S. Hallii** Gray. Sandy shore, Winter Pond, Winchester (*Wm. Boott*, Sept. 10, 1876. Numerous other collectors since). The only known station northeast of Georgia and east of Illinois.

**S. heterochaetus** Chase. Banks of Charles River at Cow Bay, Dedham (*F. F. Forbes*, Aug. 7, 1907).

**S. hudsonianus** (Michx.) Fernald. Wet meadows and peat-bogs, occasional in Essex and Middlesex counties. A northern plant, rare in our district.

**S. Longii** Fernald. Boston (*C. E. Faxon*, no date); swamp, Chamberlain lot, Dedham (*F. F. Forbes*, June 3, 1900); damp ground, Charles River meadows, Dedham (*F. F. Forbes*, June 26, 1908). A new segregate, to be looked for elsewhere in the district. See RHODORA XIII, 4, 1911.

**S. nanus** Spreng. Salt marshes and shores of tidal streams. Re-



ported from Gloucester to Watertown; also by fresh water at Spot Pond, Stoneham (*L. H. Bailey*, Aug. 1, 1883).

**S. occidentalis** (Wats.) Chase. In water near pond margins; Pleasant Pond, Wenham (*J. A. Lowell*, July, 1847); "Essex Co." (*Wm. Oakes*, no date); Revere (*H. A. Young*, September, 1878); Fresh Pond, Cambridge (*Wm. Boott*, July 9, 1853); Heard's Pond, Wayland (*G. G. Kennedy*, Aug. 22, 1910).

**S. Olneyi** Gray. Ditches in salt marsh, Kent's Island, Newbury (*A. A. Eaton*, Aug. 12, 1897).

**S. pedicellatus** Fernald. "Merrimac Valley" (*J. Robinson*, June 22, 1879). A northern species, rare in this district.

**S. pedicellatus** Fernald, var. **pullus** Fernald. Pleasant Valley, Amesbury (*A. A. Eaton*, Aug. 28, 1897); swampy shore, Coy's Pond, Wenham (*C. H. Knowlton*, Sept. 20, 1908).

**S. planifolius** Muhl. Dry open woods and rocky hillsides. Not reported from northwest or southeast, abundant elsewhere.

**S. robustus** Pursh. Salt marshes; Newbury (*E. F. Williams*, July 31, 1898); Dorchester (*J. R. Churchill*, Sept. 13, 1903).

**S. rubrotinctus** Fernald. Wet places, common throughout.

**S. Smithii** Gray. Muddy shores; Shawsheen River near pond, North Andover (*J. Blake*, September, 1883); Heard's Pond, Wayland (*M. L. Fernald*, Sept. 10, 1909; *M. L. Fernald & A. J. Eames*, Sept. 18, 1909. See RHODORA XI, 220, 1909); Westwood (*W. P. Rich*, Oct. 6, 1901).

**S. subterminalis** Torr. Ponds and slow streams, mostly submerged. Not reported in southern section, but frequent elsewhere.

**S. sylvaticus** L. Wet places; Lawrence, Andover, Revere, Woburn, Winchester, Sudbury.

**S. Torreyi** Olney. In shallow water and mud; Lawrence, Medford, Concord, Dedham, Ponkapaug Pond (Canton or Randolph), Wellesley; Groton, Westford, Stoneham, Littleton (according to Dame & Collins, Fl. Middlesex Co. 113, 1888).

**S. validus**, Vahl. In water of ponds and brooks, common.

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