

The long-acuminate or attenuate bracts of the inflorescence and ascending or recurving beak of the achene distinguish this species from the similar Sagittaria latifolia. Leaves with prominent basal lobes. Syn.: S. engelmanniana J.G.Sm. var. brevirostra

REFERENCE: Braun 1967:55 (illus. p. 54).

HERBARIUM RECORDS: 31 Jul 1882—Olentangy R., W. Green; 30 Jul 1883—Olentangy R., University Farm, Devol; 12 Sep 1991—E side of Hoover Dam Park, N of entrance off Cubbage Rd., inlet to reservoir, Blendon Twp., Lowden 4828.

2. Sagittaria latifolia Willd.

Common Arrowhead

Distinguished by the broad, ovate, obtuse (rarely acute) bracts in the inflorescence, and by the almost horizontal beak of the achene which points away from the dorsal keel; leaves with prominent basal lobes. Syn.: S. hastata, S. obtusa, S. sagittifolia L., S. variabilis Engelm. var. diversifolia A.Gray, S. variabilis Engelm. var. gracilis Engelm., S. variabilis Engelm. var. hastata Pursh, S. variabilis Engelm. var. latifolia Willd., S. variabilis Engelm. var. obtusa Willd. REFERENCES: Riddell 1834:158 (wet prairies, marshes); Sullivant 1840:44; Craig 1890:54, 106-107 (#421-426; University Farm Sep 1887; vars. are found in the ponds E of the island, 19 Jul 1882, 16 Jun 1887); Selby & Craig 1890:16 (#856-861); Braun 1967:53 (exceedingly variable species) (illus. p. 64).

HERBARIUM RECORDS: 19 Jul 1882—Hayden Falls, Devol; 10 Aug 1882—SW of Cols., W. Green; 30 Jul 1883—Cols. & Olentangy R., University Farm, Devol; 7 Aug 1890—near St. Mary's Convent, Selby; 3 Sep 1892—Cols., Bogue; 22 Aug 1899—S Cols. & canal near Cols., Selby; 5 Aug 1910—Scioto R., Cols., L. Miller; 20 Jul 1934—Scioto R., Blaydes; 22 Aug 1952—Olentangy R. bank, by Fifth Ave. dam, Cols., Lauferschweiler, 11 Sep 1971—W of OSU campus along Olentangy R. near Tower Dorms & Battelle, near Battelle, Cols., Roberts 2046; 25 May 1986—W campus of OSU, N side of pond, R. Burnes 44; Summer 1988—along Big Darby Creek between I-70 & Little Darby Creek, Galloway Quad., Delong; Summer 1988—along the Olentangy R., OSU campus, Cols., Delong; 18 Sep 1989—Highbanks Metro Park (Franklin Co.), sandbar S of county line in Olentangy R., Watts 494 (OS, OWU); 9 Aug 1990—S side of Hibbs Rd., 1 mi. E of Rt. 104, Jackson Twp. Lowden 4540.

The following variety is distinguished:

†var. pubescens (Muhl.) J.G.Sm.

Hairy Arrowhead

Similar to typical Sagittaria latifolia except this variety has rachis, bracts, and calyx pubescent.

REFERENCE: McCance 1984:A-32.

HERBARIUM RECORD: [no date]-Cols., Selby.

NOTE: Not mentioned for Franklin Co. by Braun 1967:53.

3. †Sagittaria rigida Pursh

Sessile-fruited Arrowhead

Stem bent at about base of raceme; lowest carpellate flowers sessile or short-pediceled; leaves submersed or emersed, all or most without basal lobes. Syn.: S. heterophylla Pursh, S. heterophylla var. elliptica Engelm., S. heterophylla var. elliptica A.Gray

REFERENCES: Craig 1890:107 (#427 & 428, rare; occasionally met with in these ponds, the leaves being usually submerged); Selby & Craig 1890:16 (#854 & 855).

HERBARIUM RECORDS: 9 Aug 1840—Big Walnut, 5 mi. SE of Cols., J. Paddock Collection (ILL); 30 Jul 1883—Cols., Devol. NOTE: Not mapped for Franklin Co. by Braun 1967:55 (illus. p. 56).

HYDROCHARITACEAE, Frog's-bit Family

Submersed aquatics; dioecious; fruit indehiscent; seeds few to many.

- a Leaves cauline, whorled or opposite, 1-3 cm long, many. 1. ELODEA
- a' Leaves basal, alternate, long and ribbonlike. 2. VALLISNERIA

1. ELODEA Michx. Waterweed

Flowers subtended by sessile or nearly sessile spathes; staminate flowers with 3 sepals, 3 petals, and 9 stamens; carpellate flowers epigynous, with 3 sepals, 3 petals, 1-loculed ovary with 3 parietal placentae, and 3 stigmas, these flowers, at anthesis, at surface of water as a result of elongation of hypanthium. (Anacharis Rich.)

Elodea canadensis Michx.

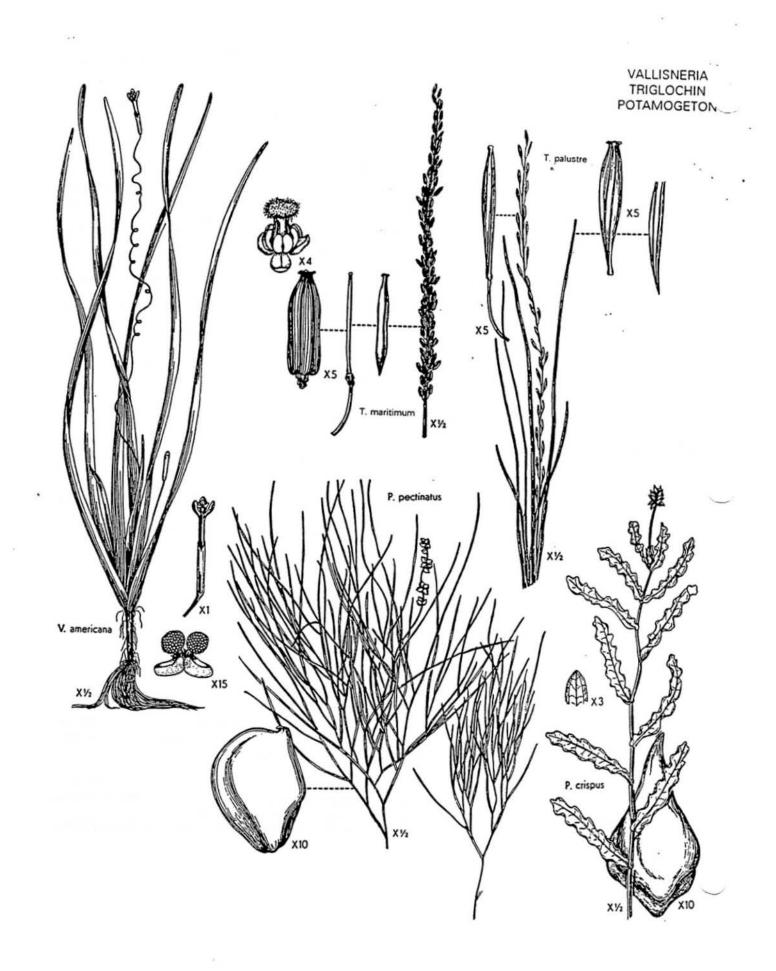
Ditch Moss

Stems leafy; leaves narrow, whorled or opposite, usually obtuse, in width from less than 2 mm to about 4 mm, averaging about 2 mm. Syn.: Anacharis canadensis (Michx.) Planch., Udora canadensis Nutt.

REFERENCES: Riddell 1834:158 (standing pools); Craig 1890:103 (#393, very abundant in the lagoon E of the island and N of the road, 25 May

HERBARIUM RECORD: 1840-Cols., Sullivant.

NOTE: Not mapped for Franklin Co. by Braun 1967:59.



2. VALLISNERIA L. Tape-grass, Eel-grass

Rooted in mud, leaves submersed; sepals 3, petals 3; staminate flowers minute, many in a head borne under water, flowers separating at anthesis and floating, stamens usually 2; carpellate flowers epigynous, white, sessile and solitary in a long-peduncled spathe, stigmas 3, these flowers at surface of water at anthesis, fruit under water as a result of coiling of peduncle.

1. †Vallisneria americana Michx. var. americana

Tape-grass, Eel-grass, Wild Celery

Stems short, leaves basal, ribbon-like, up to 2 m long. Syn.: V. spiralis of American authors, not L., V. spiralis L. var. americana Torr.

REFERENCES: Riddell 1834:158; Sullivant 1840:41; Selby & Craig 1890:15; Kellerman & Werner 1893:230 (#394a, quite abundant in the lagoons near the river, 23 Aug 1890); Braun 1967:60 (illus. p. 58).

HERBARIUM RECORD: 21 May 1933-OSU, Hicks.

NOTE: See Lowden 1982:290 (illus. p. 274).

JUNCAGINACEAE, Arrow-grass Family

Of marshes and bogs; leaves all basal; flowers regular, bisporangiate, small, greenish, in a bractless raceme; sepals and petals 3; stamens 6, attached at base to perianth; carpels 3 or 6, united until mature, separating at maturity, becoming follicles; ovule solitary in each carpel.

1. TRIGLOCHIN L. Arrow-grass

Leaves slender, basal, with membranous sheaths; anthers sessile.

- a Locules 6; fruit ovoid-ellipsoid, the beaks recurving at maturity. 1. T. maritimum
- a' Locules 3; fruit linear-clavate, the carpels at maturity separating from base upward, each carpel pointed at base.
 2. T. palustris

1. †Triglochin maritimum L.

Seaside Arrow-grass

Carpels 6; fruit ovoid-ellipsoid, appearing 12-ribbed. Syn.: T. elatum Nutt., T. maritima L.

REFERENCES: Sullivant 1840:46; Selby & Craig 1890:16.

NOTE: No specimens seen from Franklin Co. Not mapped for Franklin Co. by Braun 1967:47 (illus. p. 46).

2. †Triglochin palustre L.

Marsh Arrow-grass

Carpels 3, united until maturity into a linear or club-shaped fruit blunt at apex and narrow at base, upon ripening separating from base upward. Syn.: T. palustris L.

REFERENCES: Sullivant 1840:46; Selby & Craig 1890:16.

HERBARIUM RECORD: 1840-Cols., Sullivant.

NOTE: Not mapped for Franklin Co. by Braun 1967:48 (illus. p. 46).

POTAMOGETONACEAE, Pondweed Family

Aquatic herbs with submersed stems and leaves and sometimes also floating leaves; leaves alternate or the upper opposite; flowers bisporangiate, in peduncled elongate or capitate spikes; perianth none; stamens 4; carpels 4, separate. (Zosteraceae, in part)

1. POTAMOGETON L. Pondweed

Some species with only submersed leaves, other species with both submersed and floating leaves; flowers small, perianth none; stamens 4, with a sepal-like appendage; carpels 4, separate, becoming achenes.

a Floating leaves present.