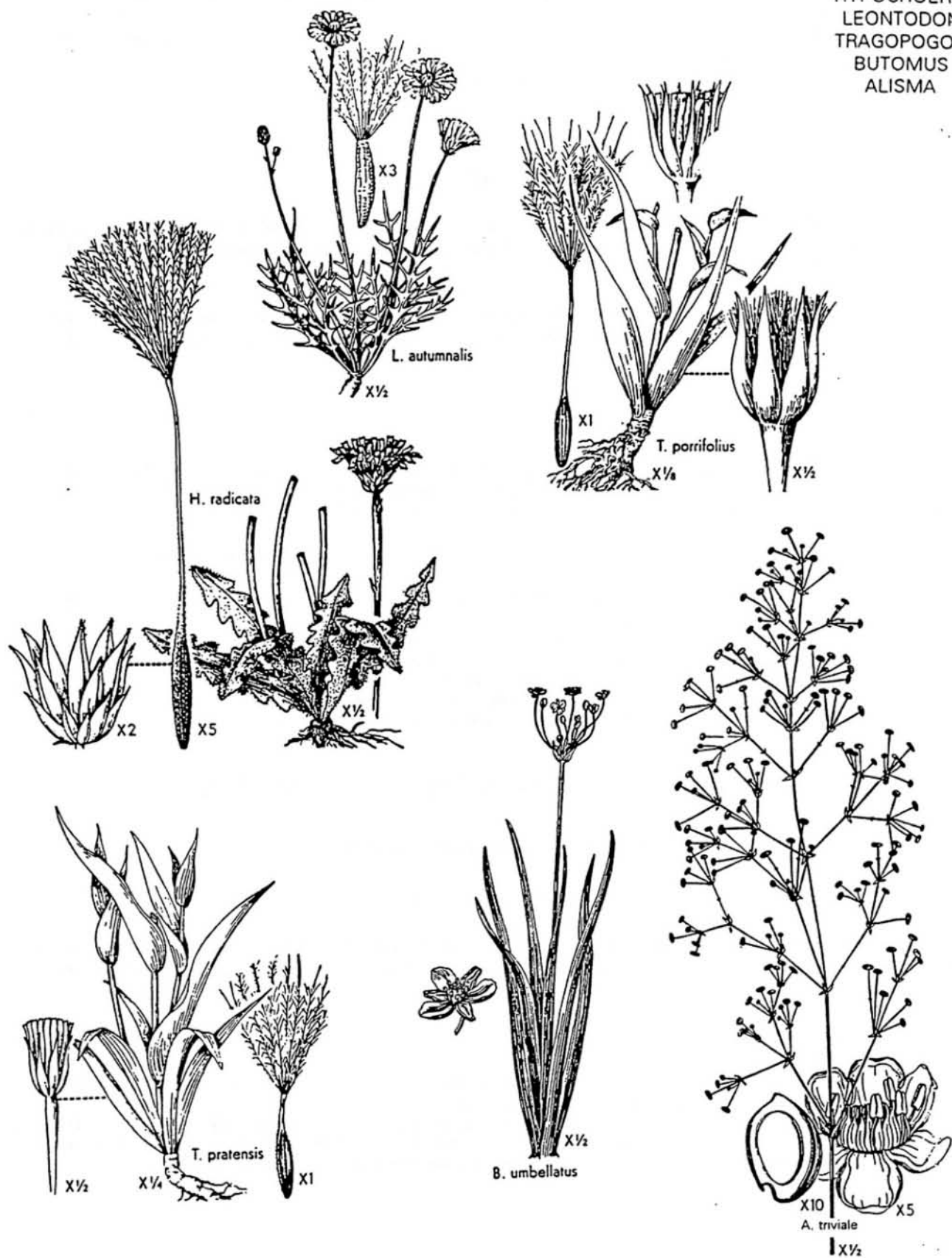


HYPOCHOERIS
LEONTODON,
TRAGOPOGON
BUTOMUS
ALISMA



Leaves basal, lanceolate or oblanceolate, entire to pinnatifid; heads terminal on branched or unbranched scapes; phyllaries of different lengths; receptacle fimbriate, villous, or honeycombed; corollas all ligulate, yellow.

1. **Leontodon autumnalis* L.

Fall Dandelion, Hawkbit

Adventive (native of Eurasia)

Scape sometimes branched, bracted; pappus of equal plumose bristles.

REFERENCE: Fisher 1988:232 (illus. p. 231).

HERBARIUM RECORD: 1942—Cols., C. Jones.

59. TRAGOPOGON L. Goat's-beard

Glabrous, succulent; leaves alternate, entire, linear or lanceolate, parallel-veined, clasping; heads large, solitary at ends of branches; phyllaries in 1 series, nearly equal; corollas all ligulate; pappus of plumose interwebbed bristles; achenes beaked.

a Corollas purple, shorter than the phyllaries; peduncles hollow and enlarged below the heads. 1. *T. porrifolius*

a' Corollas yellow, equaling or longer than phyllaries; peduncles not enlarged below the heads or enlarged a little in fruit. 2. *T. pratensis*

1. **Tragopogon porrifolius* L.

Salsify

Cultivated Escape (European cultigen)

May-Jun.

REFERENCES: Craig 1890:87 (escaped from cultivation in the grass-plot field and N of the garden near the culvert, 29 May 1882, 3 Jun 1884, 27 May 1887; a var. with yellow flowers was found in the former locality which perhaps runs into ...).

NOTE: No specimens seen from Franklin Co. Not mapped for Franklin Co. by Fisher 1988:234 (illus. p. 235).

2. **Tragopogon pratensis* L.

Yellow Goat's-beard, Showy Goat's-beard

Naturalized (native of Europe)

Leaves acuminate-tipped, curled downward at maturity; corollas yellow, equal or longer than phyllaries. Roadsides, fields & waste places. May-Jun.

REFERENCES: Craig 1890:87 (a single specimen of which was found 27 May 1889); Fisher 1988:234 (illus. p. 235).

HERBARIUM RECORDS: Spring 1889—near Cols., Craig; 11 Jun 1900—Cols., W. Kellerman; 7 Jun 1987—Highbanks Metro Park (Delaware Co.), Morawetz; 26 May 1988—0.1 mi. N of Sharon Hill on Linworth Rd., Gerberick 46; 11 Jun 1989—SE corner of Henderson & Kenny Rd., Perry Twp., Lowden 4135; 11 Jun 1989—RR tracks on Highland Dr., W of Olentangy River Rd., Clinton Twp., Lowden 4141; 19 May 1990—just S of the Plain/Jefferson Twp. Line, intersection of Blacklick Creek with Morse Rd., Jefferson Twp., Lowden 4320.

CLASS LILIOPSIDA, MONOCOTYLEDONS

BUTOMACEAE, Flowering-rush Family

1. BUTOMUS L. Flowering-rush

Tall herb growing in mud or shallow water; leaves linear, basal; flowers hypogynous, regular, bisporangiate, about 2 cm wide, on slender pedicels in a 3-bracted umbel; sepals 3; petals 3, pink; stamens 9; carpels 6, slightly united at base; fruit an aggregate of follicles.

1. **Butomus umbellatus* L.

Flowering Rush

Naturalized (native of Eurasia)

Tall herb growing in mud or shallow water; leaves linear, basal; flowers hypogynous, regular, bisporangiate; sepals 3; petals 3; stamens 9; carpels 6; fruit an aggregate of follicles.

REFERENCE: Roberts 1972:83-85 [Cols.: 11 Sep 1971—five colonies in the Olentangy R. between Fifth and Lane Avenues at the OSU campus, in 6 inches of water along marshy shore on E bank, Roberts 2047; 3 Oct 1971—one clump 1½ feet in diameter in the Scioto R. at Whittier St. Extension, ¼ mi. above Greenlawn Dam, in one foot of water in sandy substrate, approx. 15 yards from shore, Roberts 2241].

HERBARIUM RECORDS: 11 Sep 1971—W of OSU campus along Olentangy R., near Tower Dorms & Battelle, Cols., *Roberts 2047*; 3 Oct 1971—Scioto R., approx. ½ mi. N of Whittier St. bridge, Cols., *Phillips & Roberts 2241*; 19 Aug 1977—E bank of Olentangy R., OSU campus, N of Drake Union & W bank by Woodruff bridge, *W. Carr 715*; 8 Jul 1979—Scioto R., downtown Cols. at Independence Park just S of Broad St., from broad to Greenlawn bridge, *Roberts 5066*; 23 Jul 1982—OSU campus, E bank of the Olentangy R., just S of the Woody Hayes Dr. bridge, Cols., *T. Lammers 4786* (KE, OS); 10 Jul 1986—OSU Campus, banks of the Olentangy R., *E. King 4*; Summer 1988—along the Olentangy R., OSU campus, Cols., *Delong*; 5 Jul 1991—E bank of Olentangy R., between Lane Ave. & King Ave. bridges, Clinton Twp., *Lowden 4772*; 23 Sep 1991—Scioto R., occasional in shallow water along edges of gravel bars, just N of I-270, Hamilton Twp., SW Cols. Quad., *McCormac 4346*.

NOTE: Not mentioned for Franklin Co. by Braun 1967:57.

ALISMATACEAE, Water-plantain Family

Aquatic or marsh herbs; monoecious or dioecious; leaves simple, basal, long-petioled; flowers hypogynous, monosporangiate or bisporangiate, regular, bracted, verticillate in racemes or panicles; sepals 3, separate; petals 3, separate; stamens 6-many; carpels few to many, separate; fruit an aggregate of achenes. (Alismaceae)

- a Carpels in one circle; flowers bisporangiate; achenes flattened but not winged. 1. **ALISMA**
- a' Carpels in spirals, in fruit becoming a globular cluster of achenes; upper flowers usually staminate, lower usually carpellate or bisporangiate; achenes flattened, winged on margins. 2. **SAGITTARIA**

1. ALISMA Water-plantain

Leaf-blades elliptic to ovate, base cordate, rounded, or tapering; inflorescence a large panicle; petals white or pink; stamens 6-9; carpels 10-25.

- a Petals more than 3 mm long; fruit 4 mm wide or more; rare in Ohio. 1. *A. triviale*
- a' Petals less than 3 mm long; fruit less than 4 mm wide. 2. *A. subcordatum*

1. †*Alisma triviale* Pursh

Northern Water-plantain

Fruiting heads 4-7 mm in diameter; achenes 2.5-3 mm long; bracts ovate to ovate-lanceolate.

HERBARIUM RECORDS: 7 Aug 1890—Jaeger's Pond, Cols., *Selby*; 9 Aug 1890—Cols., *Hine*; 9 Aug 1990—S side of Hibbs Rd., 1 mi. E of Rt. 104, Jackson Twp., *Lowden 4541*.

NOTE: Not mapped for Franklin Co. by Braun 1967:51.

2. *Alisma subcordatum* Raf.

Southern Water Plantain

Fruiting heads 3-4 mm in diameter; achenes 1.5-2.5 mm long; bracts lanceolate. Syn.: *A. plantago* L., *A. plantago-aquatica* of many American authors

REFERENCES: Riddell 1834:158 (marshes); Sullivant 1840:44, 61; Craig 1890:54, 106 (#420, University Farm Sep 1887; common near the iron spring, and in wet places E of the island, 9 Aug 1882, 29 Jul 1887, 1 Jul 1888); Selby & Craig 1890:16; Braun 1967:51 (illus. p. 50).

HERBARIUM RECORDS: 3 Sep 1892—Cols., *Bogue*; 25 Sep 1892—Cols., *W. Kelleman*; 15 Aug 1982—Blendon Woods, *Owens*; 6 Nov 1984—Gahanna Woods State Nature Preserve, SW corner of preserve, *Tyrell*; Summer 1988—along Big Darby Creek between I-70 & Little Darby Creek, Galloway Quad., *Delong*; 5 Aug 1989—Godown Rd. ditch, between Commerce Pl. & Le Anne Marie Circle, Perry Twp., *Lowden 4247*; 8 Aug 1990—swampy pond, Elliot Rd., ½ mi. NW of Scioto-Darby Creek Rd., Brown Twp., *Lowden 4511*.

2. SAGITTARIA L. Arrow-head

Leaves with sagittate or unlobed blades or without blades; petals white or purple at base, to 3 cm long; stamens 7-many; achenes winged.

- a Leaves usually sagittate; filaments smooth.
 - b Beak of achene broad-based, erect or recurved, not minute; pedicels of carpellate flowers 1-2 cm long.
 - 1. *S. brevirostra*
 - b' Beak of achene horizontal; bracts boat-shaped, ovate. 2. *S. latifolia*
- a' Leaves without blades or blades usually not sagittate; filaments hairy. 3. *S. rigida*

1. *Sagittaria brevirostra* Mack. & Bush

Midwestern Arrow-head