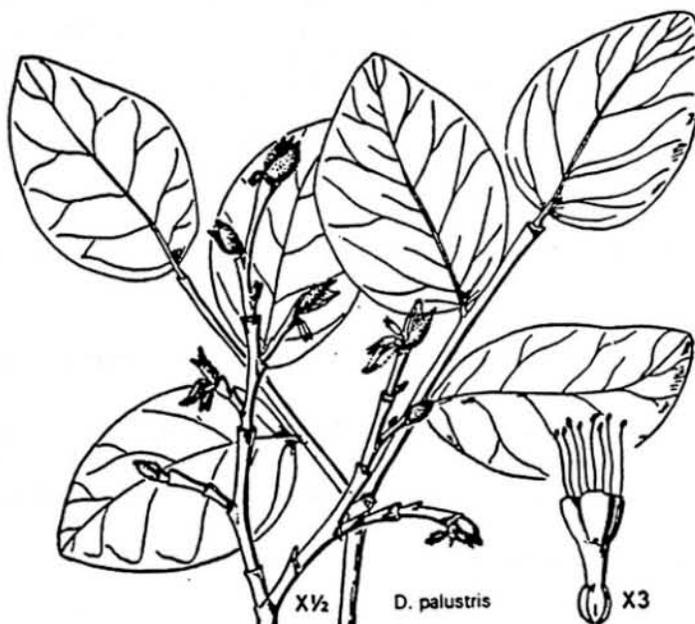
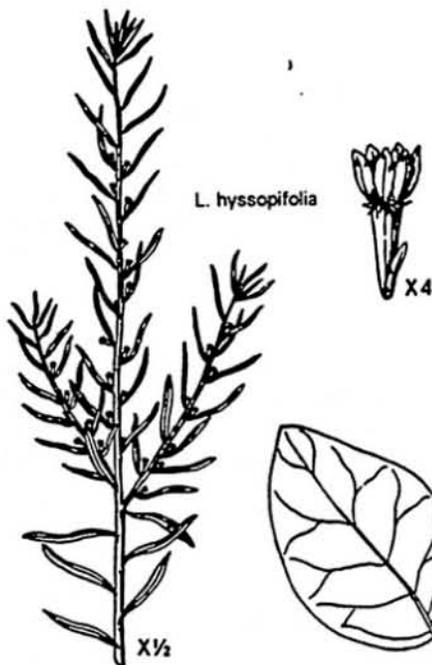
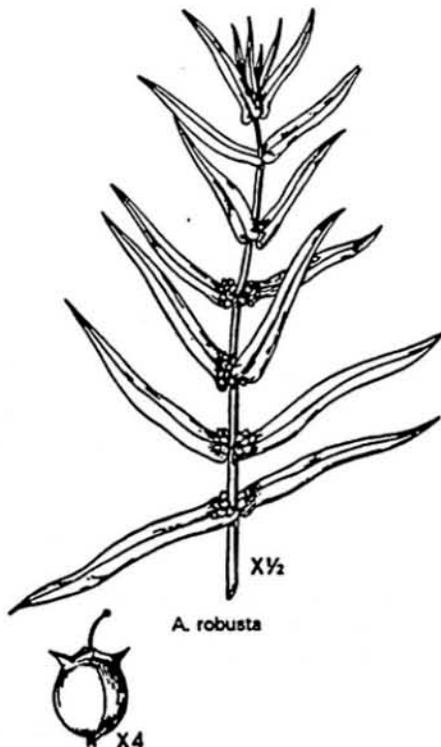
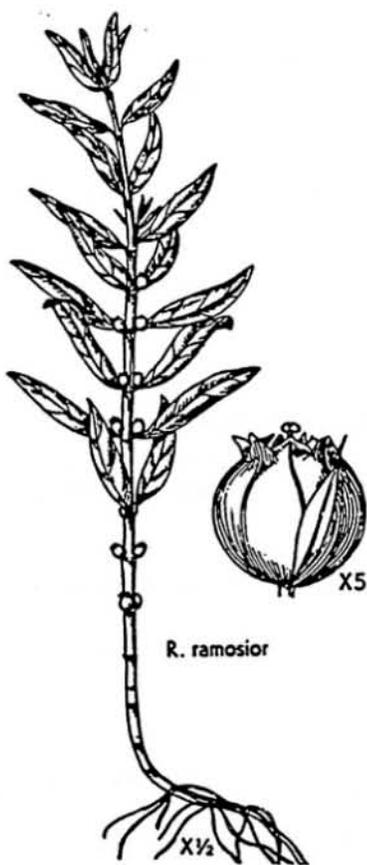


ROTALA
AMMANNIA
LYTHRUM
CUPHEA
DIRCA



Low glabrous herbs of wet places; blades opposite, sessile, narrow, auricled at base; flowers small, axillary, usually clustered; hypanthium 4-angled; sepals 4, small, appendages in sinuses; petals 4, small, early deciduous; stamens 4 or 8; capsule bursting irregularly.

1. *Ammannia robusta* Heer & Regel

Sessile Tooth-cup

Petals pale lavender; flowers and fruits nearly sessile, peduncle not more than 1 mm long; fruits more than 3.5 mm wide.

REFERENCE: Cooperrider 1995:170 (illus. p. 169).

NOTE: No specimens seen from Franklin Co.

4. LYTHRUM L. Loosestrife

Stems 4-angled; leaves opposite, alternate, or whorled; flowers often dimorphic or trimorphic, solitary or in axillary clusters, sometimes in spikes; hypanthium cylindrical, striate; sepals 5-7, alternating with appendages; petals 5-7, purple, red-purple, or white; stamens as many or twice as many as petals, inserted lower in hypanthium; style slender; capsule 2-loculed.

a Leaves opposite or whorled; flowers in clusters in upper axils, clusters in spikelike inflorescence; plants more or less downy; stamens twice petals. 1. *L. salicaria*

a' Leaves, at least part of them, alternate; flowers solitary or in 2's in axils; stamens not more numerous than petals.

b Petals 5 mm long; hypanthium narrowly 12-winged. 2. *L. alatum*

b' Petals 2-3 mm long; hypanthium not winged. 3. *L. hyssopifolia*

1. **Lythrum salicaria* L.

Purple Loosestrife, Spiked Loosestrife

Naturalized (native of Eurasia)

Plants pubescent above; leaves opposite, whorled; flowers reddish-purple, several in axils; inflorescence racemose to spike-like.

REFERENCES: Stuckey 1990:4; Cooperrider 1995:171 (illus. p. 172).

HERBARIUM RECORDS: 15 Aug 1972—Scioto R. at Greenlawn Ave. bridge, uncommon on backwater bay mudflats, *Roberts 3037*; 24 Jul 1973—ditch along RR S of Lincoln Ave. and E of Indianola Ave., SE edge of Worthington, *Thorp*; 4 Aug 1974—borrow pit along Olentangy R. near intersection of Rt. 315 & W. North Broadway, *Roberts 4409* (KE, OS); 28 Jul 1979—S end of abandoned limestone quarry, E bank Scioto R., about 1 mi. S of Dublin on Rt. 33, *W. Carr 1755*; 27 Jul 1980—along RR between I-270 & Wilson Rd. at ODOT Garage, Sharon Twp., NW Cols. Quad., *Cusick 20240*; 10 Jul 1982—Pickerington Marsh, *Owens*; Summer 1988—along the Olentangy R., OSU campus, Cols., *DeLong*; 5 Aug 1989—along Godown Rd., wet ditch between Commerce Pl. & Le Anne Marie Circle, Perry Twp., *Lowden 4238*; 23 Jun 1991—E bank of Scioto R., James J. Thomas Park, near Fishinger Rd. Bridge, Perry Twp., *Lowden 4732*; 5 Jul 1991—E bank of Olentangy R., between Lane Ave. and King Ave., OSU campus, Clinton Twp., *Lowden 4761*.

2. *Lythrum alatum* Pursh

Wing-angled Loosestrife

Plants with several branches; stems glabrous; lower leaves opposite, upper alternate, bases rounded; corolla pink-purple; 1-2 flowers in each axil, hypanthium with prominent nerves, stamens or style exerted.

REFERENCES: Craig 1890:79-80 (I found this 31 Jul, growing in marshy ground in the W part of the island near the central lagoon where it occurs sparingly; it is not given in Sullivant's "List of plants growing in the vicinity of Cols.," and there is no record of its having been found in the county); Selby & Craig 1890:10; Cooperrider 1995:171 (illus. p. 169).

HERBARIUM RECORDS: Aug 1889—"Island," OSU Farm, Cols., *Craig*; 1 Jul 1891—towards Georgesville, *Selby*; 9 Aug 1990—S side of Hibbs Rd., swampy area, 1 mi. E of Rt. 104, Jackson Twp., *Lowden 4537*.

3. †*Lythrum hyssopifolia* L.

Grass-Poley, Hyssop-leaved Loosestrife

REFERENCES: Riddell 1834:118 (wet prairies); Sullivant 1840:14; Selby & Craig 1890:10.

NOTE: No specimens have been seen from Franklin Co. Not mentioned for Franklin Co. by Cooperrider 1995:170.

5. CUPHEA P.Browne

Viscid-hairy; stem erect, branching; leaves opposite, ovate-lanceolate, petioled; flowers solitary or in 2's in axils, sessile or short-stalked; hypanthium tubular, oblique, ribbed, spurred on one side; sepals 6, appendages in sinuses; corolla irregular; petals red-purple, about 1 cm long; stamens usually about 11-12.

1. *Cuphea viscosissima* Jacq.

Blue Waxweed, Clammy Cuphea

Plants viscid-hairy; corolla irregular, red-purple; leaves opposite, lanceolate; hypanthium cylindrical. Syn.: *C. petiolata* (L.) Koehne, a preoccupied name
REFERENCES: Riddell 1834:118 (wet prairies); Sullivant 1840:14; Selby & Craig 1890:10; Cooperrider 1995:173 (illus. p. 172).
HERBARIUM RECORDS: 1840—Cols., Sullivant; Oct 1890—Central College, Bogue (CLM, OS).

THYMELAEACEAE, Mezereum Family

Shrubs; leaves alternate; flowers perigynous, bisporangiate; sepals present, sometimes minute; corolla none; stamens 8; carpels united; fruit a drupe.

1. DIRCA L. Leatherwood

Shrub with tough bark and flexible branches; leaves short-petioled, blades obovate, entire; flowers in small axillary clusters, appearing before the leaves; hypanthium tubular-funnelform, yellow, margin (sepals scarcely evident) wavy or shallowly toothed; style and stamens exerted; locule and ovule 1.

1. *Dirca palustris* L.

Leatherwood

Plants woody, tree-like shrub; branches flexible; leaves alternate, obovate, entire; flowers yellow, appearing before the leaves; fruit a greenish to reddish drupe.

REFERENCES: Riddell 1834:118; Selby 1891a:111a; Cooperrider 1995:165 (illus. p. 164).

HERBARIUM RECORD: 9 May 1891—Big Darby, Selby.

NOTE: Sullivant 1840:24 and Selby & Craig 1890:15 reported on plants collected in adjacent counties. See Braun 1961:273.

ONAGRACEAE, Evening-primrose Family

Herbs; leaves alternate or opposite, simple; flowers epigynous, perfect, epigynous hypanthium present or absent; corolla regular or rarely somewhat zygomorphic; sepals and petals usually 4 (2-6); petals separate or rarely none; stamens usually 8 (2-8); carpels usually 4 (2-6), united, locules as many or rarely 1; style 1, sometimes short; stigma 1 or with lobes as many as carpels; fruit a capsule or nutlike.

Clarkia pulchella Pursh (Farewell-to-spring) was reported by Selby 1891a:111a (found at Sellsville), Selby 1891b:75 (circus grounds), and Cooperrider 1995:175. This adventive herb has pink-lavender 3-lobed petals (6 Jul 1891—Sellsville, Selby).

a Sepals, petals, and stamens 2. **5. CIRCAEA**

a' Sepals and petals 4 to 6 or rarely none.

b Epigynous hypanthium very short or absent.

c Petals purple, red-purple, pink, or white; calyx and short hypanthium, when present, deciduous; seeds with tufts of hairs. **2. EPILOBIUM**

c' Petals yellow or greenish or none; calyx persistent in fruit; seeds without tufts of hairs. **1. LUDWIGIA**

b' Epigynous hypanthium elongate, slender.

d Petals usually yellow, if pink or white then 2-4 cm long; fruit prismatic, cylindrical, or clavate; flower regular. **3. OENOTHERA**

d' Petals white or pink, slender, less than 1 cm long; fruit fusiform, indehiscent; flower somewhat irregular.

4. GAURA

1. LUDWIGIA L. False Loosestrife

Of wet soil or water; stems erect or prostrate; flowers solitary, sessile or short-stalked, in upper axils; perianth regular; sepals, petals, and stamens 4, or petals none, sepals persistent in fruit; carpels 4; ovary often square in cross section; bractlets usually present on ovary or below; length of capsule less than twice width.

a Leaves alternate; flowers stalked or sessile. **1. L. alternifolia**