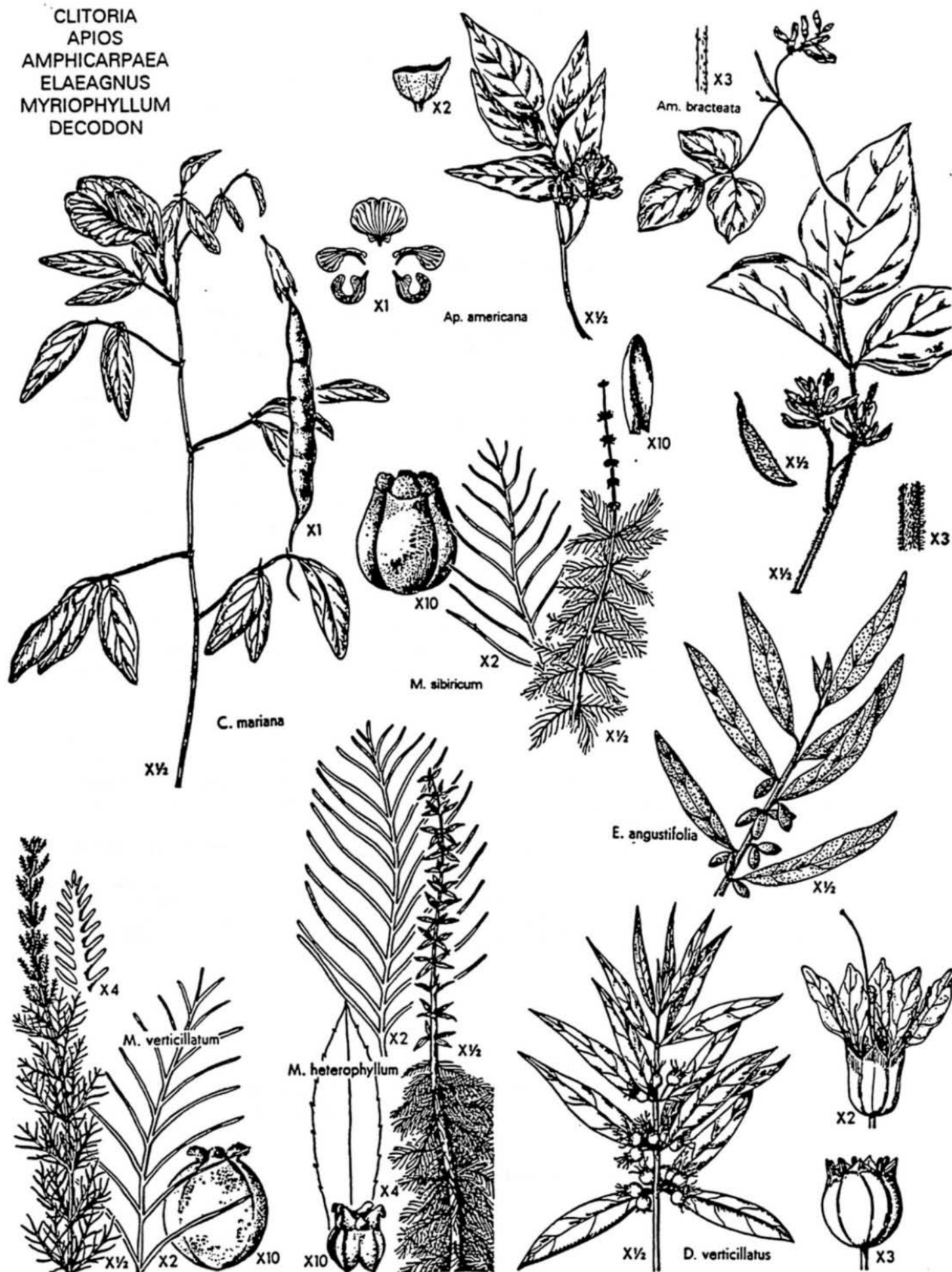


CLITORIA
APIOS
AMPHICARPAEA
ELAEAGNUS
MYRIOPHYLLUM
DECODON



Flowers bisporangiate or some of them monosporangiate, on twigs of current season; hypanthium tubular, constricted above ovary; leaves alternate; stamens 4.

- a Leaves lanceolate, silvery scales on both sides; calyx tube slightly longer than lobes; fruit yellow, stalks 2-4 mm long. **1. *E. angustifolia***
a' Leaves elliptic to ovate or lanceolate, green and somewhat glabrescent above, silvery scales beneath; calyx tube at least 2 times as long as lobes; fruit red, stalks 3-5 mm long. **2. *E. umbellata***

1. **Elaeagnus angustifolia* L.

Russian-olive, Oleaster

Planted Ornamental (native of Eurasia)

Shrub or small tree; leaves alternate, lanceolate or narrowly lanceolate; leaves and young branches covered with silvery scales only; fruit yellow with silvery scales.

HERBARIUM RECORDS: 7 Jun 1967—OSU campus, cult., Cols., *Cooke & Stuckey*; 12 May 1986—OSU, W Campus, Cols., *Blanco*; 18 May 1988—OSU, between Campus Loop Rd. & Howlett Hall parking lot, *Chinery* 49; 22 May 1988—W. Thurber Dr., Cols., *Kelly* 27; 3 Jun 1993—jct. of Bethel Rd. & Olentangy River Rd., Cols., Sharon Twp., *Lowden* 5071; 3 Jun 1993—S on Rt. 315, Lane Ave. exit, Clinton Twp., *Lowden* 5072.
NOTE: Not mapped for Franklin Co. by Cooperrider 1995:166.

2. **Elaeagnus umbellata* Thunb.

Autumn-olive

Planted Ornamental (native of E Asia)

Shrub or small tree; leaves alternate, elliptic to ovate-oblong; leaves and young branches with silvery and brown scales; fruit red.

HERBARIUM RECORDS: 24 Jul 1986—Highbanks Metro Park, scattered, *Kosko*; 25 May 1994—main entrance to Darby Creek Metro Park, 1665 Darby Creek Dr., *Stahl*.

NOTE: Planted in every Metro Park (pers. comm., Jim Stahl). Not mapped for Franklin Co. by Cooperrider 1995:166 (illus. p. 164).

HALORAGACEAE, Water-milfoil Family

Aquatic or marsh herbs; emerged leaves entire, toothed, or pinnatifid, submersed ones pinnatifid with linear or filiform segments; monoecious; flowers epigynous, bisporangiate or monosporangiate, sessile, axillary, solitary or few together; perianth regular; carpels 3-4, united, locules and ovules as many.

1. MYRIOPHYLLUM L. Water-milfoil

Submersed; leaves opposite or whorled; flowers small, 2-bracted, in axils of emerged leaves or bracts, the whole forming spikes, usually the carpellate below, the staminate above, and the bisporangiate in the transition zone; calyx of 4 sepals deeply parted in the staminate, toothed in the carpellate; petals 4 or none; stamens 4 or 8; carpels 4, separating at maturity, each 1-seeded, indehiscent; styles and stigmas separate.

- a Bracts, at least the lower, longer than flowers and fruits.
b Carpels in fruits smooth; stamens 8; bracts pinnatifid. **1. *M. verticillatum* var. *pectinatum***
b' Carpels in fruit rounded or keeled, beaked; stamens 4; bracts serrate to entire; stem stout. **3. *M. heterophyllum***
a' Bracts shorter than flowers and fruits; stamens 8; stems white in drying; carpels in fruit smooth or finely tubercled.
2. *M. sibiricum*

1. †*Myriophyllum verticillatum* L. var. *pectinatum* Wallr.

Whorled Water-milfoil

Aquatic herb; flower on emerged stems; bracts of inflorescence deeply pinnatifid.

HERBARIUM RECORD: 1840—Cols., *Sullivant*.

NOTE: *Sullivant* 1840:10 (*Myriophyllum* species?, sine fl. & fr.). Not mapped for Franklin Co. by Cooperrider 1995:197 (illus. p. 196).

2. †*Myriophyllum sibiricum* Kom.

Common Water-milfoil

Native to Naturalized (European)

Syn.: *M. exalbescent* Fernald, *M. spicatum*

REFERENCE: Craig 1890:79 (common in ponds around the island and in the lake).

NOTE: No specimens seen from Franklin Co. Not mapped for Franklin Co. by Cooperrider 1995:195 (illus. p. 196). Kellerman & Werner 1893:226-227 referred to #143 *Myriophyllum spicatum* on Craig's list as a doubtful identification and indicated "a thorough but unsuccessful search was made ... in the localities named, the same season that the list was published."

3. †*Myriophyllum heterophyllum* Michx.

Broad-leaved Water-milfoil

REFERENCE: Craig 1890:79 (abundant in the lake).

NOTE: No specimens seen from Franklin Co. Not mapped for Franklin Co. by Cooperrider 1995:197 (illus. p. 196). Kellerman & Werner 1893:226-227 referred to #144 *Myriophyllum heterophyllum* on Craig's list as a doubtful identification and indicated "a thorough but unsuccessful search was made ... in the localities named, the same season that the list was published."

LYTHRACEAE, Loosestrife Family

Herbs; leaves opposite, whorled, or alternate, simple, entire; flowers perfect, perigynous, often dimorphic or trimorphic in length of filaments and of style; petals rarely none or sepals and petals 4-7, stamens as many or twice as many; carpels 2-6, united, ovary completely or incompletely 2-6-loculed; placentation axile; style 1; fruit a capsule.

a Corolla not regular; hypanthium spurred or saccate on one side; sepals and petals 6. 5. CUPHEA

a' Corolla regular or absent; hypanthium regular.

b Hypanthium cylindric, longer than wide; sepals and petals 5-7, stamens as many or twice as many.

4. LYTHRUM

b' Hypanthium as wide as long, globose in fruit; petals 5, 4, or none.

c Tall plants with alternate, whorled, or opposite leaves; petals usually 5, stamens 10, of 2 lengths; flowers trimorphic. 1. DECODON

c' Low plants with opposite leaves; petals 4 or none; stamens equal; flowers of one form.

d Flowers usually solitary in axils; bases of leaves tapering. 2. ROTALA

d' Flowers usually clustered in axils; bases of at least upper leaves auricled. 3. AMMANNIA

1. DECODON J.F.Gmel. Swamp Loosestrife

Herbaceous to slightly shrubby; growing in swamps; stem angled, elongate, usually arching and rooting at nodes; leaves opposite, whorled, or alternate, lanceolate, short-petioled; flowers showy, trimorphic, in nearly sessile clusters in axils of upper leaves; sepals 4-8, alternating with linear appendages; petals 5, purple-pink, 10-15 mm long; stamens 10; capsule 3-5-loculed, dehiscent.

1. *Decodon verticillatus* (L.) Elliott

Swamp Loosestrife

Shrub-like, branches arched; leaves usually opposite or in whorls; blades lanceolate; flowers clustered in axils of upper leaves; petals purple-pink; hypanthium subglobose.

REFERENCES: Sullivant 1840:14; Selby & Craig 1890:10; Cooperrider 1995:170 (illus. p. 169).

HERBARIUM RECORDS: 1840—Cols., Sullivant; 4 Jun 1931—Westerville, Hicks.

2. ROTALA L. Tooth-cup

Low herbs of wet soil; stems erect or prostrate; blades opposite, short-petioled, linear-spatulate, 1-3 cm long; bases of leaves tapering; flowers small, solitary and sessile in axils; sepals 4, about as long as alternating appendages; petals 4, minute, white or pink, early deciduous; stamens 4; capsule 4-loculed, dehiscent; hypanthium equaling capsule.

1. *Rotala ramosior* (L.) Koehne

Tooth-cup

Herbs; leaves opposite, linear-spatulate, narrowed at base to short petiole; flowers and fruits solitary and sessile in leaf axils; hypanthium globose to subglobose; petals white or pink, falling early. Wet places, mudflats.

REFERENCES: Sullivant 1840:13 (*Ammannia humilis* Michx.); Selby & Craig 1890:10; Kellerman & Werner 1893:228 (fields back of North Dormitory, 5 Aug 1890); Cooperrider 1995:168 (illus. p. 169).

HERBARIUM RECORDS: 5 Aug 1890—Cols., Werner (CLM, OS); 29 Aug 1933—Baumgardner's Pond, Chapman; 2 Oct 1987—W bank of the Olentangy R., just N of Lane Ave. bridge and S. of Fawcett Center for Tomorrow, wet open mudflat, T. Lammers & Stuckey 6191; Summer 1988—along the Olentangy R., OSU campus, mudflat near Fawcett Center, DeLong; 13 Oct 1991—Olentangy R., mudflat N of Lane Ave. bridge, S of Fawcett Center, Clinton Twp., Lowden 4879.

3. AMMANNIA L.