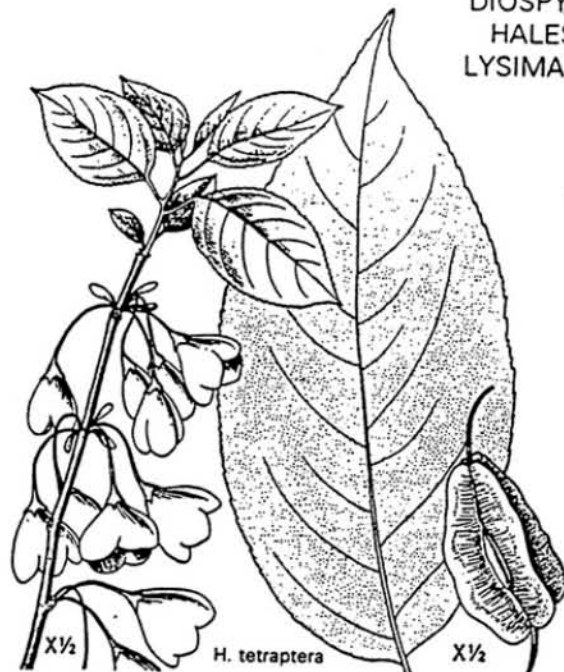


DIOSPYROS  
HALESIA  
LYSIMACHIA



Native (or persisting from cultivation)

Tree; functionally dioecious; flowers minute, greenish-yellow; leaves alternate, simple; blades lacking teeth, usually widest at or below the middle; fruit a berry, dull-yellowish-orange.

REFERENCES: Sullivant 1840:27; Selby & Craig 1890:12; Braun 1961:304 (illus. p. 304); Cooperrider 1995:281 (illus. p. 283).

HERBARIUM RECORDS: Oct 1891—near Big Darby, Cols., Selby; [date?]-Westerville, Hicks; 6 Oct 1928—cult., OSU campus, Hicks.

## STYRACACEAE, Storax Family

Shrubs or small trees; pubescence often stellate; leaves alternate, simple; flowers epigynous, bisporangiate; calyx entire or lobed; corolla regular; stamens twice corolla lobes or more, their bases united; carpels united, locules as many or ovary with septa at base only; style 1.

### 1. *HALESIA* J.Ellis Silverbell

Flowers in lateral umbel-like clusters, appearing with or before the leaves; pedicels drooping; calyx small, 4-toothed; corolla bell-shaped, 4-lobed, white, 2-2.5 cm long; stamens 8-16, inserted near base of corolla-tube; fruit 4-loculed, 4-winged, dry, indehiscent.

#### 1. \*†*Halesia tetraptera* J.Ellis

Silverbell

Cultivated (native to S Ohio)

Tree; leaves alternate, simple; flowers appear before the leaves; sepals and petals 4; corolla 4-lobed, white, bell-shaped; ovary inferior; fruit dry, indehiscent, 4-winged. Syn.: *H. carolina* L., perhaps misapplied

HERBARIUM RECORDS: 9 May 1940—OSU Garden, C. Jones; [date?]-NE of Oxley Hall, OSU, Cols., Cooke & Stuckey; 3 May 1988—OSU campus, S side of SW door into McPhearson Hall, cult., M. Hoffman 55.

NOTE: Not mapped for Franklin Co. by Braun 1961:305 (illus. p. 304) or Cooperrider 1995:282 (illus. p. 283).

## PRIMULACEAE, Primrose Family

Herbs; leaves opposite, whorled, alternate, or all basal, simple or rarely pinnately dissected; flowers hypogynous or rarely epigynous; calyx usually 5-lobed (4-7); corolla regular; petals usually 5 (4-7), more or less united at base; stamens as many as petals and opposite them; staminodes sometimes present; carpels 5, united; locule 1; placenta central, free, style 1; fruit a capsule.

a Ovary partly inferior; flowers in terminal racemes or panicles. 3. **SAMOLUS**

a' Ovary superior.

b Petals reflexed; flowers in an umbel on a scape; leaves basal. 4. **DODECATHEON**

b' Petals spreading or erect; flowers not in an umbel; stem leafy.

c Corolla yellow. 1. **LYSIMACHIA**

c' Corolla scarlet, blue, pink, or white. 2. **ANAGALLIS**

### 1. *LYSIMACHIA* L. Loosestrife

Leaves whorled, opposite, or alternate, sometimes punctate; flower parts in 5's or 6's; petals yellow, sometimes dotted or lined with black or red; corolla campanulate to rotate.

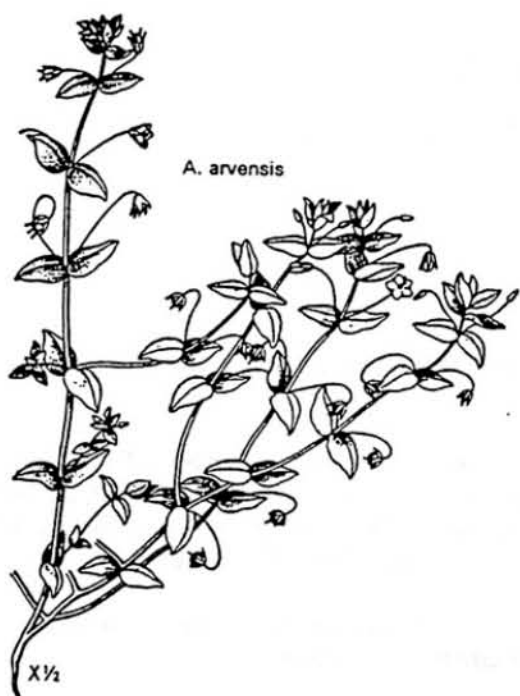
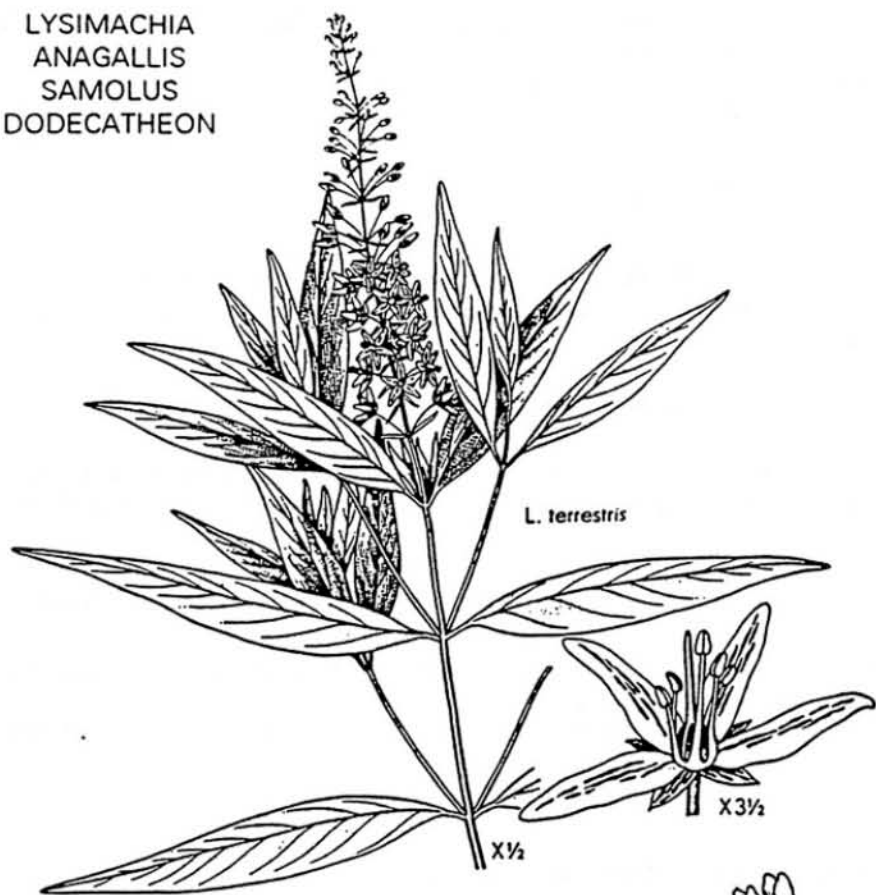
*Lysimachia clethroides* Duby (native of E Asia) is found in gardens and persists after cultivation in Slate Run ravine (25 Jul 1992—Slate Run Wood Ct. off Henderson Rd., 1½ mi. E of Sawmill Rd., Perry Twp., Lowden 5010; 25 Jul 1993—6170 Middlebury Dr. W, James Lane's garden, cult., Worthington, Lane). It differs from other species by having leaves alternate; flowers are white in a slender terminal spike, the bracts longer than the pedicels.

a Staminodes alternating with the stamens; stamens separate; leaf-blades, petals, and sepals not dotted or lined.

b Blades ovate to lance-ovate, base rounded or subcordate; petioles ciliate. 1. *L. ciliata*

b' Blades linear to lanceolate, tapering to base, sessile or subsessile.

LYSIMACHIA  
ANAGALLIS  
SAMOLUS  
DODECATHEON



- c Blades lanceolate, not revolute-margined, lateral veins evident. 2. *L. lanceolata*
- c' Blades linear, often revolute-margined, lateral veins obscure. 3. *L. quadriflora*
- a' Stamines absent; leaf-blades usually dotted.
- d Stems prostrate; leaves opposite, circular, 1-3 cm long; flowers axillary, solitary, 2-3 cm wide; filaments united at base. 5. *L. nummularia*
- d' Stems erect; leaves lanceolate.
- e Flowers in short axillary racemes or heads; filaments separate; leaves opposite. 4. *L. thyrsoflora*
- e' Flowers solitary and axillary or in terminal racemes; filaments united at base.
- f Flowers all axillary; leaves whorled, 4-5 at a node. 6. *L. quadrifolia*
- f' Flowers in terminal racemes; leaves usually opposite; bracts small. 7. *L. terrestris*

1. *Lysimachia ciliata* L.

Fringed Loosestrife

Stems erect; leaves opposite with ciliated petioles; blades ovate-lanceolate; flowers solitary in upper leaf axils; petal yellow. Fields, ditches, thickets & woodlands. Syn.: *Steironema ciliatum* (L.) Raf.

REFERENCES: Riddell 1834:156 (bottomland); Sullivant 1840:27; Craig 1890:89 (occurs sparingly, found only on the bank near the island spring, 11 Jul 1882, 19 Jun 1887); Selby & Craig 1890:12; Cooperrider 1995:276 (illus. p. 277).

HERBARIUM RECORDS: 11 Jul 1882—Cols., *Devol*; Jul 1888—Upper Neils Run, Cols., *Craig*; Jun 1889—Cols., *Craig*; 1890—Alum Creek, *Selby*; 9 Jul 1890—Olentangy R., Cols., *Hine*; 1 Jul 1891—Big Darby, *Selby* (OS, WOOS); 9 Jul 1891—OSU campus, near Cols., *Hine*; 30 Jun 1963—Tuttle Park, N of W. Lane Ave., E of Olentangy R., Cols., *Cusick*; 22 & 27 Jul 1982—Scenic Nature Preserve, Highbanks Metro Park (Franklin & Delaware Cos.), floodplain, *G. Moore*; 16 Jul 1986—Highbanks Metro Park (Delaware Co.), floodplain, *Watts 322* (OS, OWU); 16 Jun 1987—Worthington, Olentangy R., bike path ½ mi. N of Rt. 161, 1 mi. W of Rt. 23, *M. Hoffman 2*; Summer 1988—Big Darby Creek between I-70 & Little Darby Creek, *Delong*; 19 Jul 1989—Autrim Park, E of Rt. 315, S of Rt. 161, Sharon Twp., *Lowden 4216*; 11 Aug 1989—Trabue-Murphy Landing, just S of Fishinger Rd. Bridge, E bank of Scioto R., Perry Twp., *Lowden 4270*.

2. *Lysimachia lanceolata* Walter

Lance-leaved Loosestrife

Similar to *Lysimachia ciliata* except leaves are narrowly lanceolate, tapering to base. Syn.: *L. hybrida* Michx., *Steironema lanceolatum* (Walter) A.Gray

REFERENCES: Riddell 1834:156 (dry prairies); Sullivant 1840:27; Selby & Craig 1890:12 (#507 & 508); Cooperrider 1995:276 (illus. p. 277).

HERBARIUM RECORDS: 1 Jul 1891—Big Darby, *Selby* (OS, WOOS); 15 Jul 1892—Georgesville, *Bogue*; Sep 1892—Cols., *Lagema*; 8 Sep 1892—Cols., *Bogue*; 8 Jul 1961—Blendon Woods Metropolitan Park, border of upland woods, *E. Thomas*; 5 Jul 1979—Darby Creek Metro Park, frequent in open woods above small ravine, 0.3 mi. W of Alkire Rd. & Koebel-Suydam Rd., Pleasant Twp., Galloway Quad., *Cusick 19459*; 3 Jul 1982—Blendon Woods, large patches, edge of succession field, near lake, *Owens*; 3 Sep 1992—W side of Cabbage Rd., approx. ½ mi. S of Walnut St., rare in dry openings in brushy field, Blendon Twp., New Albany Quad., *McCormac 4901*.

3. *Lysimachia quadriflora* Sims

Linear-leaved Loosestrife

Leaves opposite; blades linear with margins often revolute; flowers solitary in leaf axils; corolla yellow. Syn.: *Steironema quadriflorum* (Sims) Hitchc.

REFERENCES: Riddell 1834:156 (*Lysimachia revoluta*, wet prairies); Sullivant 1840:27 (*Lysimachia longifolia* Pursh); Selby & Craig 1890:12 (*Steironema longifolium* A.Gray); Werner 1893:93 (*Steironema longifolium* A.Gray, #509 Re-collections, S of Cols., *Werner*); Cooperrider 1995:276 (illus. p. 277).

HERBARIUM RECORDS: 29 Aug 1892—Georgesville, *Bogue*; 29 Aug 1892—Franklin Co., *W. Kellerman*; 5 Aug 1893—Cols., *Werner* (CLM); 18 Aug 1929—Big Darby, limestone outcrop, *Gordon & Chapman*.

4. *Lysimachia thyrsoflora* L.

Tufted Loosestrife

Leaves opposite, sessile or nearly so; flowers in pedunculate axillary racemes. Syn.: *Numburgia thyrsoflora* (L.) DUBY

REFERENCES: Sullivant 1840:27; Selby & Craig 1890:12; Cooperrider 1995:275 (illus. p. 277).

HERBARIUM RECORDS: 1840—Cols., *Sullivant*; 29 Jun 1892—Licking Reservoir, Franklin Co., *Selby*.

NOTE: Licking Reservoir a doubtful locality for Franklin Co.

5. \**Lysimachia nummularia* L.

Moneywort

Naturalized (native of Europe)

Stems prostrate; leaves opposite, orbicular; flowers axillary, solitary, yellow.

REFERENCES: Craig 1890:89 (this plant is not given in Beardslee's "Catalogue of the Plants of Ohio," but has been recently introduced; a year or two ago there was a small patch of it growing in the W part of the campus, SW of the main bldg.); Selby & Craig 1890:12 (introduced); Cooperrider 1995:275 (illus. p. 277).

HERBARIUM RECORDS: 13 Jun [year?]-Cols., *Roney*; 26 May 1896—Worthington, *M. Wright*; 29 May 1922—Westerville, moist shady places, *N. Richardson*; 3 Jun 1922—Westerville, *M. Vance*; 7 Jun 1962—Rt. 161 at Olentangy R., W of Worthington, roadside ditch, Sharon Twp., *E. Herrick*; 3 Oct 1965—W bank Olentangy R., ½ mi. S of Henderson Rd. on Rt. 315, *Anderson* (KE); 14 Jul 1972—NE ¼ Sect. 32, on Rohr Rd. at Slatzger Rd., Ohio & Erie Canal, Madison Twp., *Roberts 2503*; 21 Jun 1982—Blendon Woods, area of nature center, *Owens*; Summer 1988—along

Big Darby Creek between I-70 & Little Darby Creek, Galloway Quad., *DeLong*; 13 Jun 1990—E. Broad St. (Rt. 16, Cols.-Newark Rd.), ½ mi. W of Franklin/Licking Co. Line, along roadside, disturbed open habitat, Jefferson Twp., *Lowden 4406*.

6. *Lysimachia quadrifolia* L.

Whorled Loosestrife

Leaves usually in whorls of 4 (3-7).

REFERENCES: Riddell 1834:156 (dry prairies); Sullivant 1840:27; Selby & Craig 1890:12; Cooperrider 1995:273 (illus. p. 274).

NOTE: No specimens seen from Franklin Co. Cooperrider annotated a specimen from Sugar Grove collected by Aug. D. Selby which is a locality in Fairfield Co. not Franklin Co. Perhaps his dot in Franklin Co. was based only on this one specimen.

7. *Lysimachia terrestris* (L.) Britton, Sterns & Poggenb.

Swamp-candles

Flowers in terminal racemes; leaves usually opposite, but not appearing so in this specimen.

HERBARIUM RECORD: 20 Jul 1971—meadow 1 mi. S of Cols., *Bartley* (BHO).

NOTE: The cited specimen doesn't appear typical at all. The undetermined name *Lysimachia stricta* Aiton, used by Sullivant 1840:27 and Selby & Craig 1890:12 might apply here. Not mapped for Franklin Co. by Cooperrider 1995:275 (illus. p. 274).

2. ANAGALLIS L. Pimpernel

Leaves opposite or whorled, ovate, 1-2 cm long; flowers axillary, peduncled, small; flower parts in 5's; petals almost separate, scarlet, white, or blue; capsule circumscissile.

1. \**Anagallis arvensis* L. var. *arvensis*

Scarlet Pimpernel

Naturalized (native of Eurasia)

Simple to branched herbs; leaves cauline, opposite, sessile; flowers solitary in leaf axils, on ascending peduncles; petals orangish-red. Weedy in habit.

REFERENCES: Riddell 1834:156 (naturalized; doubt to correctness in the Natural System); Cooperrider 1995:278 (illus. p. 279).

HERBARIUM RECORDS: 31 May 1922—Jackson Twp., *J. H. Schaffner*; 6 Jun 1960—OSU campus, near Cyclotron Laboratory, Cols., *Cusick*; 8 Jul 1981—Fountain Square S of Morse Rd., NE Cols. Quad., *Cusick 20929*; 21 Sep 1986—Highbanks Metro Park (Franklin Co.), woods & field edge, *Higgins*; 20 Jul 1989—OSU campus, Cols., *Stuckey's student*; 26 Jun 1990—Rt. 665 W of Darbydale, hilly roadside between Graessle Rd. & Biggert Rd., Pleasant Twp., *Lowden 4421*; 28 Sep 1991—E side of River Rd., just S of jct. of Rt. 161 & city of Dublin, weed in nursery, NW Cols. Quad., *Cusick 29960*.

3. SAMOLUS L. Water-pimpernel

Leaves alternate or basal; flowers small, somewhat epigynous, in terminal paniced racemes; flower parts in 5's; petals white; staminodes alternate with the stamens.

1. *Samolus floribundus* Humb., Bonpl. & Kunth

Water-pimpernel, Brookweed

Leaves alternate; flowers small, somewhat epigynous in terminal paniced racemes; petals white; staminodes alternate with the stamens. Syn.: *S. parviflorus* Raf., *S. valerandi* L., misapplied

REFERENCES: Riddell 1834:156 (bed of small rivulets); Sullivant 1840:27; Selby & Craig 1890:12 (#504 & 505); Kellerman & Werner 1893:229 (margin of the brook W of Neil Ave. to bottomland back of North Dormitory, 5 Aug 1890); Cooperrider 1995:280 (illus. p. 279).

HERBARIUM RECORDS: Jul 1891—near Cols., *E. V. Wilcox*; 14 Jul 1893—near Scioto R., *Selby*; 20 Aug 1893—Cols., *Werner* (CLM); 6 Aug 1897—Hamilton Twp., *W. Kellerman*; 16 Jul 1972—3/10 mi. N of Henderson Rd. & Rt. 315, common in marshy field, Cols., *Mossman 1088*; 2 Aug 1982—Scenic Nature Preserve, Highbanks Metro Park (Franklin & Delaware Cos.), riverbank, *G. Moore 245*; Summer 1988—along Big Darby Creek between I-70 & Little Darby Creek, *DeLong*; 10 Oct 1991—W of Grove City, just W of Balsam Ave. deadend, Jackson Twp., *K. Baker*; 13 Oct 1991—W bank of Olentangy R., mudflat N of Lane Ave. bridge, S of Fawcett Center, Clinton Twp., *Lowden 4883*.

4. DODECATHEON L. Shooting Star

Leaves all basal, oblanceolate, narrowed to margined petioles; flowers bracted, in an umbel; petals 1-2 cm long, lavender, pink, or white, united only a little at base; stamens 5, exerted, anthers connivent forming a cone; filaments short.

1. †*Dodecatheon meadia* L.

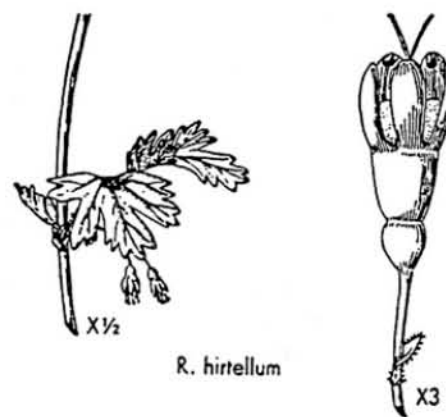
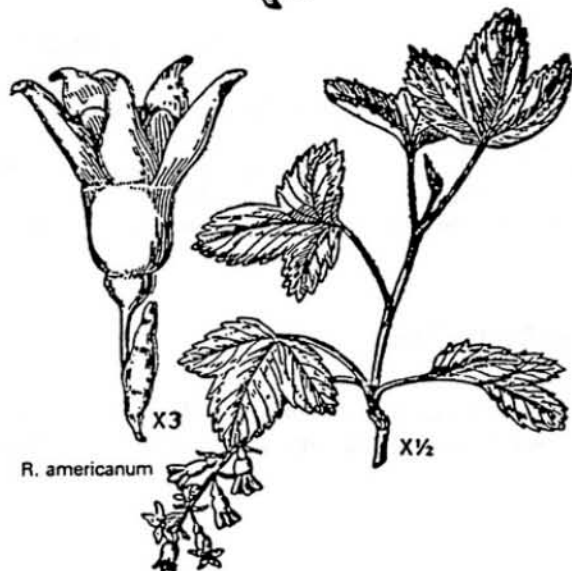
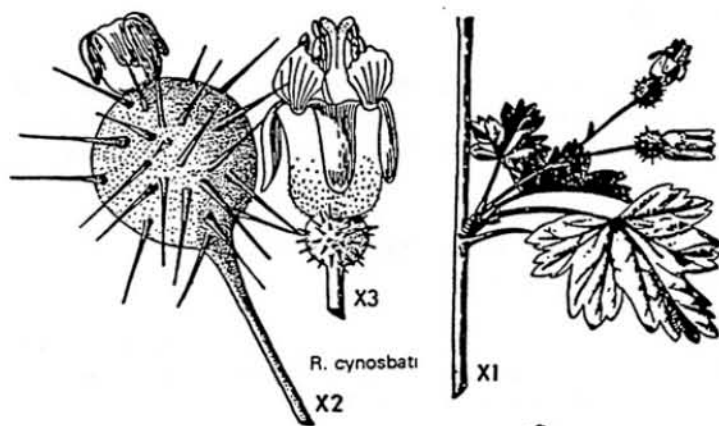
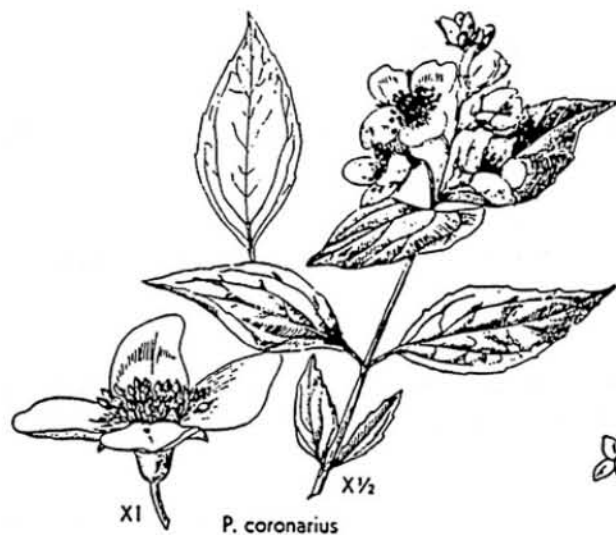
Shooting-star, Pride-of-Ohio

Leaves basal; flowers in an umbel on a scape; petals reflexed, white-lavender; anthers yellow.

REFERENCES: Sullivant 1840:27; Selby & Craig 1890:12 (this plant is probably extinct).

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

PHILADELPHUS  
HYDRANGEA  
RIBES



NOTE: Not mapped for Franklin Co. by Cooperrider 1995:271 (illus. p. 268).

## HYDRANGEACEAE, Hydrangea Family

Shrubs; inflorescence cymose or short raceme; flowers epigynous, without epigynous hypanthium; leaves opposite; ovary 2-4-loculed; stamens twice as many as petals or more; fruit a capsule.

- a Stamens 20 or more; ovary 4-loculed; flowers 2 cm wide or more. **1. PHILADELPHUS**  
a' Stamens twice as many as petals; ovary 2-loculed; flowers, at least central ones of cluster, small. **2. HYDRANGAEA**

### 1. PHILADELPHUS L. Mock-orange

Shrub; leaves opposite, short-petioled; blades ovate to oblong, somewhat dentate; flowers fragrant, epigynous, in short racemes; perianth regular; sepals 4-5; petals 4-5, white, about 2 cm long; stamens many; ovary usually 4-loculed; styles separate above; fruit a capsule.

#### 1. \**Philadelphus coronarius* L.

European Mock-orange

Cultivated & Adventive (native of Europe)

Erect shrub, bark of young twigs brown, exfoliating the second year; leaves short-petioled, ovate or ovate-oblong, acuminate, remotely dentate, pubescent in and near the axils of the 3 main veins beneath; flowers in terminal racemes 5-7, fragrant; sepals 4; petals 4, white; stamens 20 or more.

HERBARIUM RECORDS: [date?]-University campus [OSU], Hedrick; May 1937-Cols., cult., J. H. Schaffner; 31 May 1987-Highbanks Metro Park (Delaware Co.), cult., Witsberger 948 (OWU); 6 Jun 1989-Turkey Run, between Olentangy River Rd. & Pegg Ave., just S of Highland Dr., Cols., Clinton Twp., Lowden 4111; 14 Jun 1989-OSU Campus, near B&Z bldg. & Campbell Hall, 1735 Neil Ave., Cols., Lowden 4188 & 4195.

NOTE: See Braun 1961:151.

### 2. HYDRANGAEA L.

Shrub; leaves opposite, long-petioled, blades ovate to oblong, lobed or unlobed, cordate to tapering at base, serrate; flowers small, in rounded or flattened compound cymes, epigynous, sometimes the marginal ones consisting of only a flat enlarged calyx; sepals 4 or 5; petals 4 or 5, white; stamens 8-10; carpels 2, united below, separate above; ovary 2-loculed below; styles 2; fruit a capsule.

- a Inflorescence flat topped or convex; leaves ovate-oblong to broadly round-ovate. **1. H. arborescens**  
a' Inflorescence pyramidal or ovoid; leaves sharply 5-7 lobed. **2. H. quercifolia**

#### 1. *Hydrangea arborescens* L.

American Hydrangea

REFERENCES: Riddell 1834:156 (*Hydrangea vulgaris* & *H. cordata*); Sullivant 1840:20 (*Hydrangea vulgaris* Michx.); Selby & Craig 1890:10.

NOTE: No specimens seen from Franklin Co. Not mapped for Franklin Co. by Braun 1961:151 (illus. p. 152).

#### 2. \**Hydrangea quercifolia* W.Bartram

Oak-leaved Hydrangea

Cultivated to possibly Escaped (introduced from S U.S.)

Shrub; leaves sharply 5-7 lobed, lobes denticulate; young branches, petioles, and lower leaf-surface softly pubescent; panicles ovoid or oblong; sterile sepals usually 4, up to 1.5 cm long.

HERBARIUM RECORDS: 20 May 1985-OSU Campus, shrub near loading dock of the B&Z bldg., 1735 Neil Ave., Cols., Finnen 40; 16 May 1986-Park of Roses, Cols., Blanco; 14 Jun 1989-OSU Campus, behind B&Z Bldg., 1735 Neil Ave., Cols., Lowden 4170.

NOTE: Not treated by Braun 1961:151. Not cited by Weishaupt; Cronquist (p. 226) mentions under *Hydrangea paniculata*; see description and drawing in Britton & Brown (Vol. 2, p. 275).

## GROSSULARIACEAE, Gooseberry Family

Shrubs; leaves palmately veined and lobed, fascicled on short lateral branches; flowers in small clusters or racemes, epigynous, with tubular epigynous hypanthium; leaves alternate; ovary 1-loculed; stamens as many as petals; fruit a many seeded berry.