

REFERENCES: Jones 1943:107; Russell 1965:18; Miller 1976:168 (illus. p. 171); Roberts & Cooperrider 1982:60; McCance 1984:A-274; Cooperrider 1995:155 (illus. p. 153).

HERBARIUM RECORD: 6 May 1916—near Hayden's Falls, *Leonard*.

14. *Viola rostrata* Pursh

Long-spurred Violet

Plants caulescent; stipules bristle-toothed; corolla pale lilac-violet with darker center and veins; spur 0.7 cm long or more, longer than petal-blades.

REFERENCES: Riddell 1834:120 (open woods); Riddell 1835:37 (Worthington, woods & rocky situations); Selby & Craig 1890:8; Russell 1965:14; Miller 1976:173 (illus. p. 177); Cooperrider 1995:157 (illus. p. 156).

HERBARIUM RECORDS: [ca. mid-1800s]—Cols., Coll.? (URB); May 1890—Central College, *Frank* (OS, WOOS); May 1890—Central College, *E. M. Wilcox*; 21 Apr 1894—Gahanna, *E. M. Wilcox*; 6 May 1899—Franklin Co., *Fullmer*; Jun 1927—near Westerville, *Zimmerman*; 17 Apr 1986—Highbanks Metro Park (Delaware Co.), woods, Dripping Rock Trail, *Watts 278* (OS, OWU).

NOTE: See *Viola* × *brauniae* (*V. rostrata* × *V. striata*) treated under *V. striata*.

15. *Viola rafinesquii* Greene

Wild Pansy

Native

Plants with aerial leafy stems; leaves orbicular; stipules large and leaflike, deeply lobed, terminal lobe stalkless, entire, larger than other lobes, it and the lobe nearest appear mitten-shaped; sepals longer to nearly equalling the pale blue to white petals.

REFERENCES: Russell 1965:104; Miller 1976:192 (illus. p. 195); Cooperrider 1995:158 (illus. p. 156).

HERBARIUM RECORDS: Spring 1889—Cols., *Craig*; 10 May 1892—Insane Asylum, near Cols., *E. M. Wilcox*; 11 May 1892—near Cols., *E. M. Wilcox*; May 1902—Franklin Co., *McKinley*; 6 May 1903—Cols., *Sanders*.

16. **Viola tricolor* L.

Johnny-jump-up

Adventive (native of Europe)

Petals longer than sepals, yellow, purple or white, the two upper darker; middle lobe of stipules crenate.

REFERENCES: Riddell 1834:120 (naturalized); Sullivant 1840:11; Selby & Craig 1890:8 (introduced); Cooperrider-1995:157 (illus. p. 156).

HERBARIUM RECORD: 13 Jul 1978—NW of Karl Rd. & Morse Rd., lawn weed, NE Cols. Quad., *Cusick 18557* (KE).

NOTE: See Miller 1976:182 (illus. p. 185).

17. **Viola arvensis* Murray

Field Pansy, European Field Pansy

Adventive (native of Europe)

Aerial stems present; stipules large, leaf-like, deeply pinnatifid upper lobe long-stalked and toothed; petals yellow, tipped or tinged with bluish-purple, sepals equalling or longer than petals. Syn.: *V. tricolor* L. var. *arvensis* DC.

REFERENCES: Craig 1890:69 (only in a small cluster a little NE of the walk leading to the botanical bldg.; just how it came there is not known, but it has probably escaped from cultivation, although it grows wild up Neil's Run near the CCC & St. L track and also W of the city near the Insane Asylum, 1 May 1884, 2 May 1888, 15 Apr 1889); Selby & Craig 1890:8 (introduced); Russell 1965:102; Miller 1976:187 (illus. p. 190); Cooperrider 1995:157 (illus. p. 156).

HERBARIUM RECORDS: 29 Aug 1898—OSU Bot. Gar., Cols.; 1933—Cols., *Hicks*; 17 May 1982—field, Fountain Square, S of Morse Rd., NE Cols. Quad., *Cusick 21550*.

PASSIFLORACEAE, Passion Flower Family

1. PASSIFLORA L. Passion Flower

Herbaceous vines climbing by tendrils opposite the leaves; leaves alternate, blades lobed or parted; flowers axillary, perigynous, bisporangiate, peduncled; sepals 5; corolla regular; petals 5, separate, a showy double or triple fringed corona attached to the hypanthium within the corolla; stamens 5, united around stalk of ovary; styles 3; ovary 1-loculed; placentae 3, parietal; fruit a berry.

1. *Passiflora lutea* L.

Yellow Passion Flower

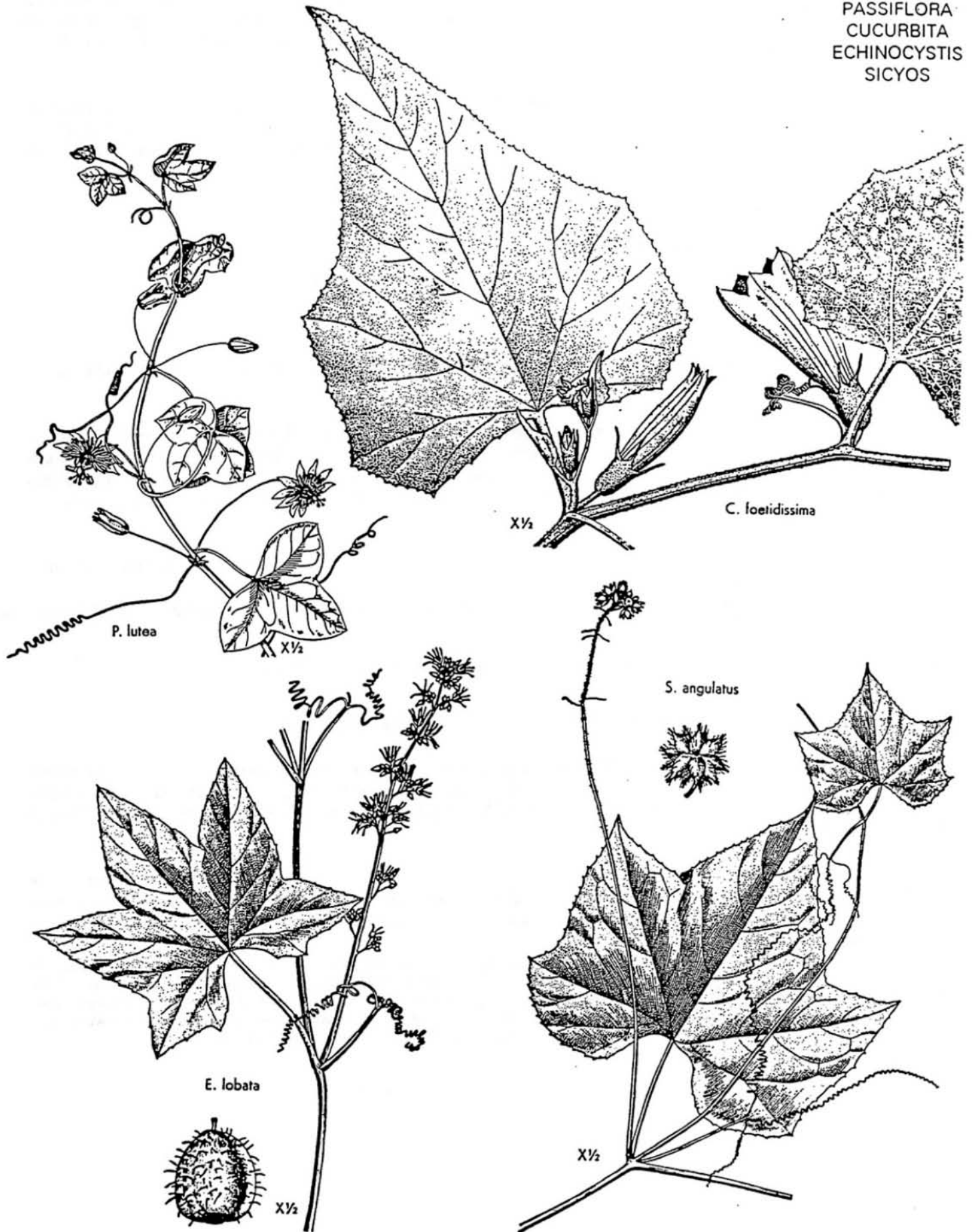
Leaves shallowly 3-lobed, extending less than half way to base, margins of lobes entire; flowers greenish-yellow.

REFERENCES: Riddell 1834:120 (bottomland); Sullivant 1840:12; Selby & Craig 1890:10; Cooperrider 1995:162 (illus. p. 161).

HERBARIUM RECORD: 27 Jul 1907—Big Darby Creek, 3/4 mi. S of National Rd., *W. Kellerman*.

CUCURBITACEAE, Gourd Family

PASSIFLORA
CUCURBITA
ECHINOCYSTIS
SICYOS



Prostrate or climbing vines, usually with tendrils; leaves alternate, palmately veined, usually lobed; monoecious; flowers monosporangiate, sometimes with vestiges of the other sporophylls, solitary or clustered; calyx 5-6-lobed; corolla campanulate, rotate, or salverform, regular, 5-6-lobed; stamens 3, more or less united; carpellate flowers epigynous; carpels usually 3, style 1, stigmas 2-3; ovary 1-loculed with large parietal placentae, or 2-3-loculed with central placentae; fruit usually a pepo.

Contains a number of cultivated plants incl. cucumber, watermelon, squash, pumpkin, and gourd. Muskmelon, *Cucumis melo* L., having hairy stems, tendrils unbranched, leaves palmately lobed, flowers yellow, less than 2.5 cm wide, with fruits smooth at maturity, is adventive (15 Sep 1935—Indian Springs ravine, growing wild, Cols., J. H. Schaffner). Reported for Franklin Co. by Cooperrider 1995:571.

- a Corolla yellow, 5-10 cm wide; ovary and fruit smooth. 1. CUCURBITA
- a' Corolla white or greenish, 1 cm wide or less; ovary and fruit prickly.
- b Petals 5; carpellate flowers in peduncled heads. 3. SICYOS
- b' Petals 6; carpellate flowers solitary or few in axils. 2. ECHINOCYSTIS

1. CUCURBITA L. Gourd, Squash, Pumpkin

Prostrate vine; leaves large, ovate, denticulate and somewhat lobed; flowers usually solitary in axils; corolla yellow, campanulate, 5-10 cm long; fruit subglobose, 5-10 cm wide; rare.

Two garden escapes are *Cucurbita maxima* Duchesne (Squash; reported for Franklin Co. by Cooperrider 1995:571) having rough stems, tendrils branched; leaves palmately veined and lobed; flowers yellow, more than 5 cm wide; fruits smooth at maturity (11 Sep 1935—Cols., J. H. Schaffner), and *C. pepo* L. (Pumpkin; 23 Sep 1991—E bank of Scioto R., just N of I-270, Hamilton Twp., SW Cols. Quad., McCormac 4357). The latter not mentioned for Franklin Co. by Cooperrider 1995:571.

- 1. **Cucurbita foetidissima* Humb., Bonpl. & Kunth Wild Pumpkin, Missouri Gourd
Adventive (western in range)

Prostrate vine, stems rough, tendrils branched; leaves triangular-ovate, somewhat lobed, palmately veined; flowers yellow, more than 5 cm wide; fruits smooth at maturity.

REFERENCE: Cooperrider 1995:571.

HERBARIUM RECORD: 5 Oct 1936—Cols., accidental along RR, growing for at least 3 years, W. Paddock.

2. ECHINOCYSTIS Torr. & A.Gray Wild Balsam-apple

Climbing; blades with 3-7, usually 5, lobes; staminate flowers in rather showy erect panicles or racemes, carpellate flowers solitary or a few together, usually the two kinds in same axil; calyx 6-lobed; petals 6, united a little at base; ovary 2-loculed; fruit about 5 cm long, ovoid, covered with soft prickles, fleshy, becoming dry, dehiscent by 2 apical pores, 4-seeded.

- 1. *Echinocystis lobata* (Michx.) Torr. & A.Gray Wild Cucumber, Balsam-apple

Vine climbing by tendrils; leaves palmately veined and lobed; staminate flowers in erect panicles or racemes, carpellate flowers solitary or a few together; corolla 6-lobed, white to greenish-white; fruits ovoid, 3-5 cm long, papery, inflated, with soft prickles.

REFERENCES: Riddell 1834:154 (*Momordica echinata*, bottomland); Sullivant 1840:10 (*Momordica echinata* Muhl.); Craig 1890:80 (common in low grounds along the river, but rare except on the island, 2 Aug 1882, 31 Jul 1889); Selby & Craig 1890:10; Cooperrider 1995:572 (illus. p. 570).

HERBARIUM RECORDS: 1840—Cols., Sullivant; Aug 1888—Cols., Craig; 5 Aug 1889—near Cols., Hine; 7 Aug 1890—Alum Creek, Cols., Selby; 11 Sep 1971—OSU campus, along bank of Olentangy R. near Tower Dorms, Cols., Roberts 2048; 15 Aug 1972—Scioto R. at Greenlawn Ave. bridge, Roberts 3038; Summer 1988—along Big Darby Creek between I-70 & Little Darby Creek, Galloway Quad., DeLong.

3. SICYOS L. Star-cucumber, Bur-cucumber

Climbing; blades shallowly 5-lobed or -angled; flowers small, white or greenish, the staminate in peduncled corymbs or racemes, the carpellate in peduncled heads, both clusters in same axil; calyx and corolla 5-lobed; fruit 1-seeded, indehiscent, dry, about 15 mm long.

1. *Sicyos angulatus* L.

Bur-cucumber, Star-cucumber, Single Seeded Cucumber

Vine climbing by tendrils; leaves palmately lobed and veined; staminate flowers in peduncles corymbs or racemes, carpellate flowers in peduncled heads; corolla white or greenish; fruits ovoid, angled, about 15 mm long, pubescent and spiny.

REFERENCES: Riddell 1834:154 (bottomland); Sullivant 1840:10; Craig 1890:80 (sparingly in damp, rich, shady grounds on the island, climbing over shrubs and small trees); Selby & Craig 1890:10; Cooperrider 1995:572 (illus. p. 570).

HERBARIUM RECORDS: 1834—Worthington, *J. Paddock Collection* (ILL); 1840—Cols., *Sullivant*; 4 Sep 1890—Alum Creek, Cols., *Selby*; 6 Sep 1898—Cols., *W. Kellerman*; 22 Aug 1899—S of Cols., *Selby*; 1 Aug 1929—OSU campus, garden weed, *Blaydes*; 30 Aug 1982—Blendon Woods, *Owens*.

SALICACEAE, Willow Family

Trees and shrubs with alternate simple stipuled leaves; dioecious; both kinds of flowers in aments, each flower subtended by a small bract; perianth none; staminate flower of 1-many stamens; carpellate flower of 2-4 united carpels; style 1 or the 2-4 stigmas sessile; ovary 1-loculed; placentae parietal; fruit a capsule; seeds many, comate.

- a Ament-bracts toothed, lobed, or fimbriate; buds with several exposed scales; pith 5-angled; flower with small cup at base. 1. **POPULUS**
- a' Ament-bracts entire or nearly so; buds with 1 scale; pith not 5-angled; flower or pedicel with 1 or 2 small glands at base. 2. **SALIX**

1. **POPULUS** L. Poplar, Aspen

Trees; twigs self-pruned; terminal bud present, often resinous; leaf-margin with gland-tipped teeth or small lobes, often 1 or more glands at base of blade; flower with a calyxlike cup or disk at base, in axil of an ament-bract; perianth none; staminate flower of 5-many stamens; carpellate flower of 2-4 united carpels.

The Carolina Poplar (*Populus* × *canadensis* Monech), not included in the keys and descriptions below, has leaf petioles flattened laterally, teeth along leaf margin numerous with hard incurved tips, and 1-2 basal glands at base of blade or absent (27 Jul 1980—between I-270 & Wilson Rd., grassy strip between RR and cultivated fields, common, Sharon Twp., NW Cols. Quad., *Cusick 20241*).

1. KEY TO PLANTS IN FLOWER AND IN FRUIT

- a Stigmas or their lobes broad; stamens 12-many; cup or disk below carpellate flower symmetric or nearly so.
 - b Buds not or slightly viscid, scales pubescent toward base; stamens 12-20; cup of carpellate flower lobed, deciduous; style undivided at base. 4. *P. heterophylla*
 - b' Buds very viscid; cup of carpellate flower not lobed, not deciduous.
 - c Ament-bracts with many fringes; lobes of stigma with crenate margin.
 - d Stamens 20-30; buds fragrant. 5. *P. balsamifera*
 - d' Stamens usually 40-60; buds not fragrant. 8. *P. deltoides*
 - c' Ament-bracts with 9-11 segments; lobes of stigma with entire margin. 7. *P. nigra*
- a' Stigmas or their lobes slender; stamens 6-12; cup of carpellate flower asymmetric; buds not or slightly viscid; ament-bracts long-bearded.
 - e Buds glabrous, lateral ones appressed; ovary and capsule glabrous; ament-bracts 3-5-cleft. 3. *P. tremuloides*
 - e' Buds pubescent, the lateral not appressed.
 - f Buds finely pubescent; twigs sometimes pubescent; ament-bracts 5-7 cleft into long narrow segments. 2. *P. grandidentata*
 - f' Buds and twigs white-woolly; ament-bracts with many short triangular teeth. 1. *P. alba*