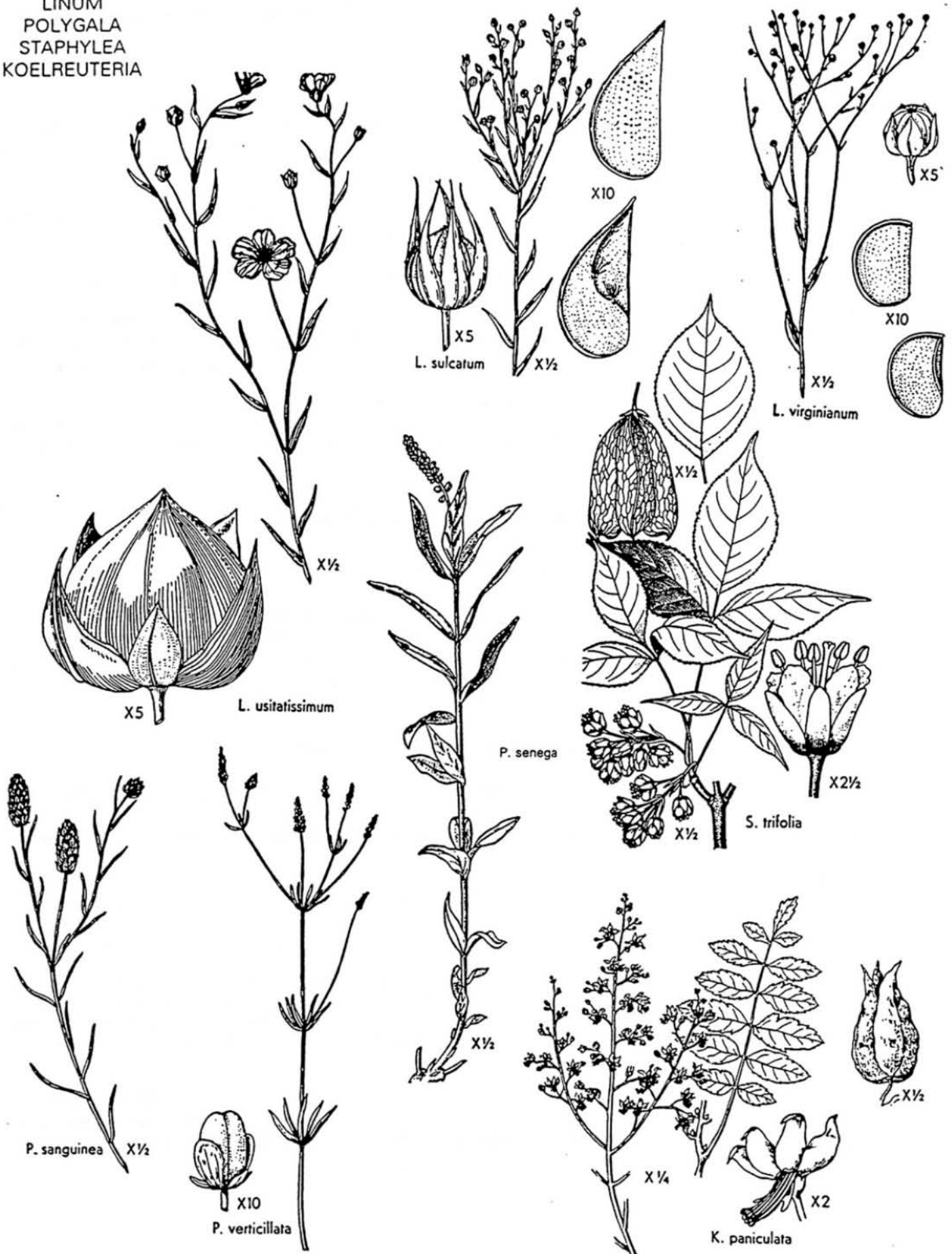


LINUM  
POLYGALA  
STAPHYLEA  
KOELREUTERIA



- b' No glands at base of leaf; outer sepals not glandular; 1 prominent line decurrent from center of leaf-base, often becoming faint before next node below; capsule depressed at summit. 3. *L. virginianum*

1. \**Linum usitatissimum* L.

Common Flax

Adventive (European cultigen)

Annual; leaves alternate and 3-nerved; inner sepals ciliate; petals blue or white; stigmas linear.

REFERENCES: Riddell 1834:120 (naturalized); Craig 1890:71 (cultivated in a field near the island last summer and some of it came up this year; escaped from cultivation but is probably not permanently established; specimens were found this spring growing in moist soil along the river bank and in the fields lying adjacent to the one where it was grown last year); Selby & Craig 1890:8 (introduced); Cooperrider 1995:5 (illus. p. 10).  
HERBARIUM RECORDS: 9 Jul 1892—Alum Creek Station, *Bogue*; 13 Oct 1904—Cols., *W. Kellerman*.

2. †*Linum sulcatum* Riddell

Grooved Yellow Flax

Sepals glandular-ciliate; petals yellow; leaf bases with two dark stipular glands along stem.

REFERENCES: Selby & Craig 1890:8; Cooperrider 1995:5 (illus. p. 6).

HERBARIUM RECORDS: 22 Nov 1890—Big Darby, *Selby*; 24 Sep 1892—Georgesville, *Selby*; 24 Sep 1892—Franklin Co., *Werner*.

3. *Linum virginianum* L.

Slender Yellow Flax

Inflorescence loosely corymbiform, more or less dichotomously branched, branches spreading; outer sepals not glandular; petals yellow; no glands at base of leaf; most leaf blades subulate-tipped. Syn.: *L. virginianum* var. *texanum* Planch.

REFERENCES: Riddell 1834:120 (rocky situations); Selby & Craig 1890:8; Cooperrider 1995:7 (illus. p. 6).

HERBARIUM RECORDS: Aug 1890 & Jul 1891—Cent. Coll. [Central College], *Selby*; 8 Jul 1891—Big Walnut, Cols., *Selby* (WOOS); 7 Aug 1899—Big Walnut, Cols., *Selby*; Sep 1992—W side of Cabbage Rd., rare in dry openings in brushy field, approx. ½ mi. S of Walnut St., Blendon Twp., New Albany Quad., *McCormac* 4899.

## POLYGALACEAE, Milkwort Family

### 1. POLYGALA L. Milkwort

Herbs; leaves simple; flowers hypogynous, zygomorphic, bisporangiate, in spikes, racemes, or heads; sepals 5, the 3 of the outer circle (the uppermost and the 2 lower) small, the two inner or lateral ones (wings) larger and petaloid; petals 3, united, the lower one concave and often bearing a fringed crest; stamens 6 or 8, filaments united below in a sheath split on upper side and more or less united with petals; anthers 1-loculed, opening by a pore at or near the tip; carpels 2, united; style 1; ovary 2-loculed; capsule 2-seeded.

a Leaves, at least the lower, whorled or opposite. 2. *P. verticillata* var. *verticillata*

a' Leaves all alternate.

b Racemes spherical or short-cylindric, dense and headlike, 1-2 cm long, often 1 cm thick or more; stems solitary; annual. 3. *P. sanguinea*

b' Racemes dense, slender-cylindric; stems tufted, perennial; aril somewhat shorter than seed. 1. *P. senega*

1. *Polygala senega* L.

Seneca Snakeroot

Perennial herbs with woody rhizomes; leaves alternate, acuminate, lowest scalelike; racemes slender-cylindric, dense; flowers white-green; pedicels 1 mm long or less; cleistogamous flowers absent.

REFERENCES: Riddell 1834:119; Sullivant 1840:13; Selby & Craig 1890:9; Selby 1891a:111a (#162 re-collected); Cooperrider 1995:29 (illus. p. 28).

HERBARIUM RECORDS: 1837—Cols., *J. Paddock Collection* (ILL); 1840—Cols., *Sullivant*; 4 Jun 1883—Cols., Coll.?; 9 May 1891—Big Darby, *Selby*; 1 Jul 1891—Big Darby, *Selby*; 1 Jul 1891—Georgesville, *Werner* (CLM); 7 May 1892—Georgesville, *Detmers*; 22 May 1899—Big Darby, Cols., *Selby*; 8 Jun 1901—Big Darby, *Mead*; 11 May 1986—Morse Rd. woodland next to the School for the Blind, *Yang* 134; 14 May 1992—Cedar Ridge, Battelle Darby Metro Park, Pleasant Twp., *Lowden* 4936; 31 May 1993—jct. of Graessle Rd. & Rt. 665, bluffs, Battelle Darby Metro Park, Pleasant Twp., *Lowden* 5057.

2. †*Polygala verticillata* L. var. *verticillata*

Whorled Milkwort

Herbs; leaves mostly whorled; racemes slender, cylindric-conic; flowers greenish-white to pink-tinged, tightly packed throughout inflorescence; wings obovate, rounded at tip, less than 3 mm long, shorter than capsule.

REFERENCES: Riddell 1834:119 (*Polygala ambigua*); Cooperrider 1995:31 (illus. p. 28).

HERBARIUM RECORDS: 1840—Cols., *Sullivant*; 1890—Central College, *Selby*; May 1890—Central College, Cols., *Selby* (WOOS); Jul 1891—Big Walnut, Cols., *Selby*; 9 Jul 1982—Scenic Nature Preserve, Highbanks Metro Park (Franklin & Delaware Cos.), blufftop, *G. Moore 234*; 1 Aug 1990—E side of Hoover Dam Park, N of entrance off Cubbage Rd., S of Walnut St., Blendon Twp., *Lowden 4484*; 3 Sep 1992—W side of Cubbage Rd., common in dry openings in brushy field, approx. ½ mi. S of Walnut St., Blendon Twp., New Albany Quad., *McCormac 4895*.

NOTE: *Sullivant* 1840:13 and *Selby* & *Craig* 1890:9 reported on plants collected in adjacent counties.

### 3. *Polygala sanguinea* L.

Purple Milkwort, Field Milkwort

Herbs; leaves alternate; flowers in spherical cylindric racemes; two inner lateral sepals (wings) petaloid, ovate or oval, rounded above; flowers rose-purple, green, or white; lobes of aril linear, ¾ length of seed.

REFERENCES: Riddell 1834:119 (*Polygala purpurea*, dry prairies); Riddell 1835:37 (*Polygala purpurea* Nutt., Duncan's Plains); *Sullivant* 1840:13 (*Polygala purpurea* Nutt.); *Selby* & *Craig* 1890:9.

HERBARIUM RECORDS: 1840—Cols., *Sullivant*; 10 Jul 1982—Blendon Woods, extensive in woodcock field, *Owens*; 1 Aug 1990—E side of Hoover Dam Park, N of entrance off Cubbage Rd. & S of Walnut St., Blendon Twp., *Lowden 4483*; 3 Sep 1992—W side of Cubbage Rd., common in dry openings in brushy field, ½ mi. S of Walnut St., Blendon Twp., New Albany Quad., *McCormac 4896*.

NOTE: Not mapped for Franklin Co. by Cooperrider 1995:30 (illus. p. 28).

## STAPHYLEACEAE, Bladdernut Family

### 1. STAPHYLEA L. Bladdernut

Shrub or small tree; bark of twigs striped; leaves opposite, 3-foliate, leaflets finely serrate; stipules early deciduous; flowers hypogynous, bisporangiate, in drooping terminal clusters; perianth regular; sepals 5; petals 5, greenish-white, separate, about 1 cm long; stamens 5, inserted outside the hypogynous disk; carpels 3, united; ovary 3-lobed, 3-loculed; placentae axile; ovules several in each locule; styles 3, separate below, coherent above; fruit a bladdery capsule.

#### 1. *Staphylea trifolia* L.

Bladdernut

Shrub or small tree; leaves opposite, 3-foliate, leaflets finely serrate; flowers in drooping clusters; sepals 5; petals 5, greenish-white; fruit a bladdery capsule.

REFERENCES: Riddell 1834:119 (dense and shady woods); *Sullivant* 1840:15; *Craig* 1890:74 (along the river a little N of the turn in the road there are several bushes which produced fruit plentifully last year, 11 May 1882, 8 May 1883, 19 May 1884, 21 May 1885, 3 May 1887, 10 May 1888, 10 May 1889); *Selby* & *Craig* 1890:9; *Braun* 1961:244 (illus. p. 242); *Cooperrider* 1995:72 (illus. p. 74).

HERBARIUM RECORDS: 1840—Cols., *Sullivant*; 8 May 1890—Alum Creek, Cols., *Selby*; 7 May 1892—Georgesville, *Detmers*; 12 May 1892—Cols., *Werner*; 25 Jun 1892—Cols., *Bogue*; 20 Aug 1893—Cols., *Werner* (CLM); 27 May 1896—Clintonville, *M. Wright*; Spring 1898—Cols., *J. H. Schaffner*; 22 May 1899—Big Darby, Cols., *Selby*; 18 May 1902—Olentangy R., OSU, *Skidmore*; 6 Oct 1902—Cols., *Sanders*; 9 Jun 1921—Westerville, creek bank, *Hite*; 23 May 1923—Alum Creek bank, damp thickets, *Benjamin*; 18 Aug 1942—OSU, Cols., *H. Reed*; 25 Apr 1977—Hayden Run on the Scioto R., *W. Carr 118*; 16 May 1980—W bank Scioto R. just S of Griggs Dam, wooded slope below limestone bluffs, Norwich Twp., SW ¼ NW Cols. Quad., *W. Carr 2744* (KE); 2 & 30 Aug, 18 & 20 Sep 1982—Scenic Nature Preserve, Highbanks Metro Park (Franklin & Delaware Cos.), *G. Moore 310-313*; 1 May 1987—Tuttle Park, E bank of Olentangy R. between Lane Ave. & Dodridge St. bridges, Cols., *T. Lammers 6088*; 28 Apr 1988—5430 Linworth Rd., *Gerberick 23*; 29 Apr 1988—0.3 mi. from Linworth Rd., small valley behind 5430 Linworth Rd., *Chinery 22*; 13 May 1989—along W side of Big Darby Creek, approx. 1/5 mi. S of Rt. 665, Pleasant Twp., Harrisburg Quad., *McCormac 551*; 24 May 1990—Dublin, ½ mi. S of Rt. 161 off Dublin Rd., Riverview overlooking the Scioto R., Washington Twp. *Lowden 4346*; 25 Apr 1991—Olentangy R. bank, N of Union Cemetery & E of Olentangy River Rd., NW Cols. Quad., *Cusick 29449*; 17 Sep 1991—E bank of Big Darby Creek just N of Rt. 40, Prairie Twp., *Lowden 4845*.

## SAPINDACEAE, Soapberry Family

Trees or vines; leaves alternate, ternately or pinnately compound; inflorescence cymose-paniculate; flowers hypogynous, small, regular-irregular, perfect or more often functionally unisexual; sepals and petals 4 or 5; stamens 4-10, often 8, upon the annular or unilateral nectary-disk; capsule 3-lobed, 3-locular; fruits bladdery inflated.

a Herbaceous vines, climbing by axillary tendrils; leaves ternate-biternate; flowers white, in small clusters on long peduncle. 1. **CARDIOSPERMUM**

a' Trees, leaves pinnate-bipinnate; flowers bright yellow in broad loose panicles. 2. **KOELREUTERIA**

### 1. **CARDIOSPERMUM** L. Balloon-vine