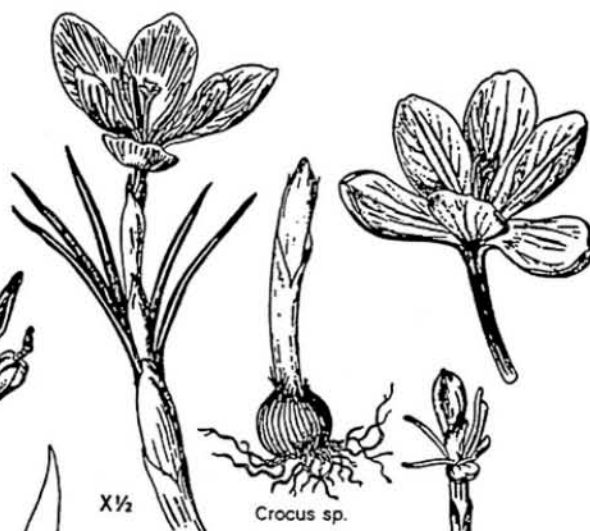
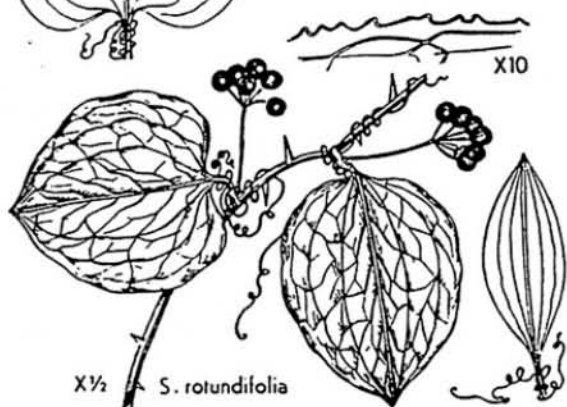
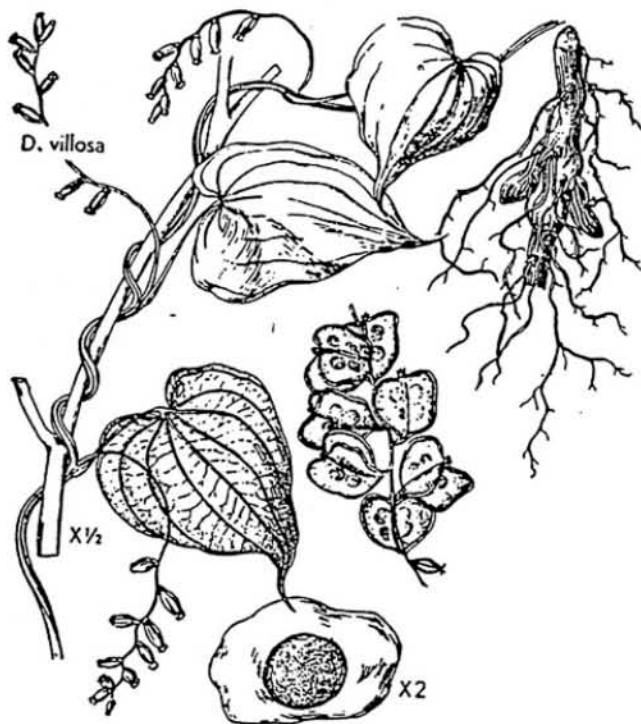
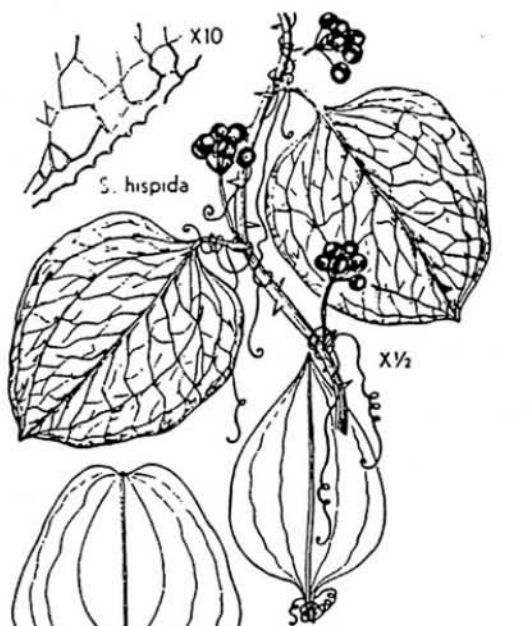


SMILAX
DIOSCOREA
CROCUS
GLADIOLUS
BELAMCANDA



Stems woody; petioles tendril-bearing; leaves ovate, whitened beneath.

HERBARIUM RECORD: 24 Sep 1971—Highbanks Reservation (Delaware Co.), ¼ mi. E of Olentangy R., *Cantino*.

NOTE: Not mapped for Franklin Co. by Braun 1967:387 (illus. p. 388).

4. *Smilax hispida* Muhl.

Bristly Greenbrier

Stems woody, terete, often prickly; tendril bearing; prickles slender at base, weak. Syn.: *S. pseudochina*, misapplied, *S. tamnoides* L., perhaps misapplied, *S. tamnoides* L. var. *hispida* (Muhl.) Fernald

REFERENCES: Riddell 1834:158 (*Smilax pseudo-chinae*); Riddell 1835:91 (*Smilax pseudo-china* L., Worthington, woods); Selby 1891a:111a; Braun 1961:71 (illus. p. 70); Braun 1967:389 (illus. p. 388).

HERBARIUM RECORDS: [no date]—Alum Creek, *Lohr*; 1890—Franklin Co., *Selby*; 26 Oct 1891—Lake Park, Cols., *Selby*; 29 Oct 1891—Cols., *Selby* (CLM); 1 Aug 1990—Delawanda Park, E bank of Olentangy R., Sharon Twp., *Lowden 4476*.

NOTE: Confusion as to name. Voss 1972:397 states *Smilax tamnoides* L. might best be called *Smilax hispida* Torr.

5. *Smilax rotundifolia* L.

Greenbrier, Sawbrier, Round-leaf Greenbrier

Stems 4-angled (sometimes terete); prickles broad-based, stout, flattened; leaves broadly ovate, margins somewhat denticulate.

REFERENCES: Riddell 1834:158; Sullivant 1840:45; Craig 1890:104 (abundant along the river S of the island, 7 Jun 1884, 30 May 1887); Selby & Craig 1890:16; Braun 1961:72 (illus. p. 70); Braun 1967:389 (illus. p. 388).

HERBARIUM RECORDS: 19 Sep 1911—Westerville, thickets, *Hanawalt*; 30 Jun 1954—Lockbourne Rd., 2 mi. S of Cols., *E. Herrick*; 22 Aug 1982—Blendon Woods, common along woodland trails, *Owens*; 10 Jun 1986—Highbanks Metro Park (Delaware Co.), woodlands, *Kosko*.

DIOSCOREACEAE, Yam Family

1. DIOSCOREA L. Yam

Twining vines; leaves with broad palmately-veined blades usually cordate at base; dioecious; flowers small, greenish; carpellate flowers epigynous, in spikes; staminate flowers in panicles; perianth regular, 6-parted; fertile stamens 6 or 3; carpels 3, united; styles 3; ovary 3-loculed; fruit a 3-winged capsule; seeds flat, winged.

1. *Dioscorea villosa* L.

Wild Yam

Leaves ovate, cordate based, all alternate or the lower in whorls of not more than 3; petioles glabrous or nearly so.

REFERENCES: Riddell 1834:158 (open woods); Sullivant 1840:45; Selby & Craig 1890:16; Braun 1967:391 (illus. p. 390).

HERBARIUM RECORDS: Jul 1892—Cols., *Bogue*; 30 May 1896—Reservoir Park, *M. Wright*; 22 Jun 1897—Cols., *Osburn*; 10 Oct 1901—near canal 1½ mi. S of Steelton, *Tyler*.

IRIDACEAE, Iris Family

Mostly perennial herbs; leaves linear; flowers bisporangiate, epigynous, solitary or in spikes, racemes, or panicles, the solitary flower or the cluster subtended by spathe-like bracts; perianth parts 6, petaloid; stamens 3, opposite the sepals and sometimes adnate to them; carpels 3, united; ovary 3-loculed, placentae axile, or rarely 1-loculed, placentae parietal; style 1, sometimes 3-branched; stigmas 3, sometimes 3-lobed; fruit a capsule.

Commonly planted garden ornamentals include *Crocus* L. (*Crocus*, native to the Mediterranean region & SW Asia), has flowers solitary, bright-colored at ground level, stems below ground; and *Gladiolus* L. (*Gladioli*, native to the Old World & S Africa), with perianth zygomorphic of various colors, leaves sword-like (21 Sep 1897—Cols., cult., *W. Kellerman*).

a Style branches petal-like. 3. IRIS

a' Style-branches slender.

b Plant without a stem above ground; flower solitary. CROCUS

b' Plant with stem above ground; flowers in clusters.

c Perianth zygomorphic. GLADIOLUS

c' Perianth regular.

d Perianth 2-3 cm long, orange-yellow with red or purple spots. 1. BELAMCANDA

d' Perianth about 1 cm long, blue or white. 2. **SISYRINCHIUM**

1. **BELAMCANDA** Adans. Blackberry-lily

Perianth spreading; style 3-branched, each stigma 3-lobed; valves of capsule at maturity recurving and eventually falling away, the mass of fleshy black seeds attached to central column resembling a blackberry.

1. **Belamcanda chinensis* (L.) DC.

Blackberry-lily

Cultivated (native of Asia)

Perianth regular, spreading; orange-yellow with red or purple spots; seeds black, shiny, fleshy, massed along a central column resembling a blackberry.

HERBARIUM RECORDS: 26 Oct 1901—Franklin Co., *J. H. Schaffner*; 30 Oct 1936—OSU Bot. Garden, Cols., cult., *J. H. Schaffner*.

NOTE: Not mentioned for Franklin Co. by Braun 1967:396 (illus. p. 400).

2. **SISYRINCHIUM** L. Blue-eyed-grass

Perennial herbs; stems flattened, slender, edges sometimes winged; leaves linear, grasslike; flowers ephemeral, in umbel-like clusters, each cluster enclosed by 2 spathe-like bracts; hypanthium absent or very short; perianth blue, violet, or white, about 1 cm long, with yellow eye; filaments monadelphous; style 3-branched.

a Umbels and enclosing spathe-like bracts sessile in axil of a leaflike bract; umbels 2 in axil of each leaflike bract; edges of outer spathe-like bract free. 1. *S. albidum*

a' Umbels and enclosing spathe-like bracts peduncled from axil of a leaflike bract; peduncles flat, winged; plant deep-green, drying blackish. 2. *S. angustifolium*

1. *Sisyrinchium albidum* Raf.

Blue-eyed-grass

Flowers white-pale blue; umbels 2, sessile along with spathe-like bracts in axil of a leaflike bract; bracts with membranous margins; edges of outer spathe-like bract free to base.

REFERENCES: Sullivant 1840:41 (*Sisyrinchium mucronatum* Michx.); Braun 1967:397 (illus. p. 398).

HERBARIUM RECORDS: 1840—Cols., *Sullivant*; 9 May 1891—Big Darby, *Selby* (OS, WOOS); May 1892—Georgesville, *Werner*; 7 May 1892—Georgesville, *Werner*; 22 May 1899—Big Darby, *Selby*.

2. *Sisyrinchium angustifolium* Mill.

Blue-eyed-grass

Flowers blue; umbels and enclosing spathe-like bracts peduncled from axil of a leaflike bract; peduncles and stems broadly winged; plants darken with drying.

REFERENCES: Riddell 1834:158 (*Sisyrinchium anceps*, meadows); Sullivant 1840:41 (*Sisyrinchium anceps* Cav.); Craig 1890:104 (grows sparingly along the river E of the island, 4 Jun 1882, 3 Jun 1884, 5 Jun 1888); *Selby* & Craig 1890:16 (#802 *Sisyrinchium anceps* Cav. & #803); Braun 1967:399 (illus. p. 398).

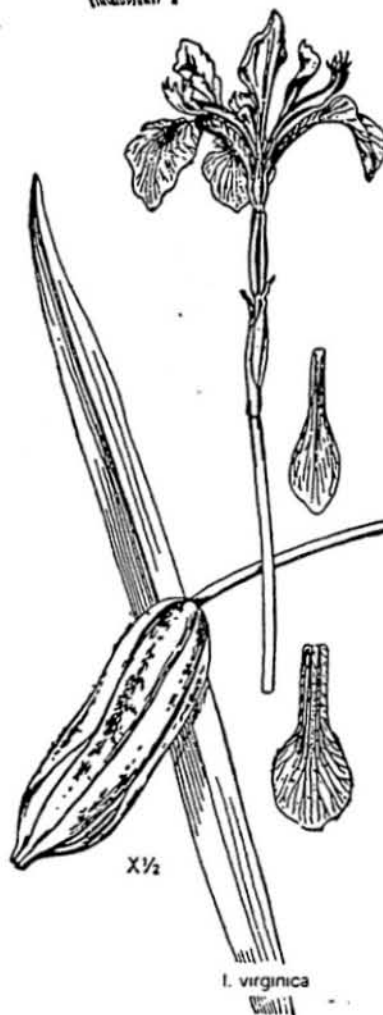
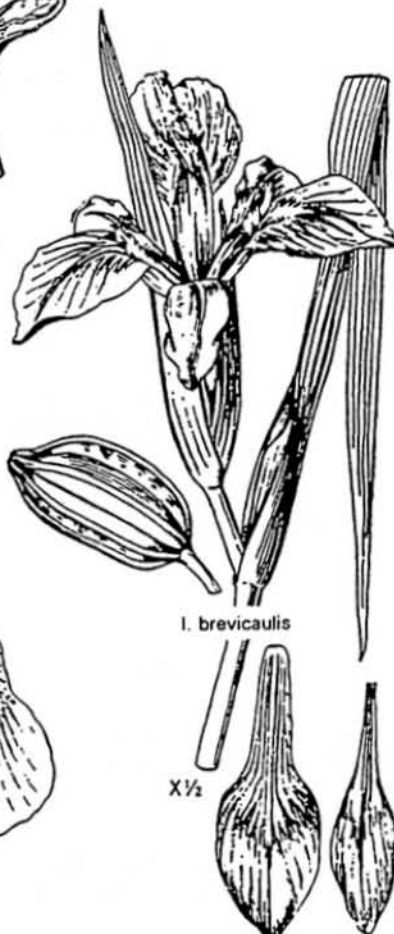
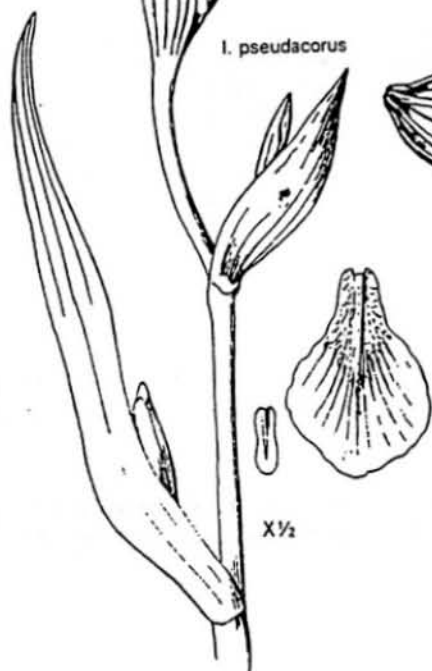
HERBARIUM RECORDS: 1840—Cols., *Sullivant*; 1890—N Cols., *Selby*; 29 May 1890—Woodard Ave., Cols., *Selby*; 8 Jul 1892—Cols., *Bogue*; 28 May 1902—Olentangy Park, *West*; 24 May 1922—Westerville, open fields, *Camp*; 25 May 1922—[Otterbein] Cemetery, *P. Davidson*; 27 May 1922—Westerville, fields, *Ehrhart*; 15 May 1977—¼ mi. S of Trabue Rd. along Scioto R., *Fazenbaker*; 28 May 1982—NW corner of field N of Ackerman, W of Olentangy R., moist open site, *Paulson 66*; 28 May 1982—Blendon Woods, Woodcock field & Big Meadow, *Owens*; 17 May 1986—Woodland, 1 mi. NW of jct. of Kenny Rd. & W. Lane Ave., *Yang 163*; 29 May 1988—grass area near woodland stream, Highbanks Metro Park (Delaware Co.), *Morawetz* (OS, OWU); 19 Jun 1988—field edge, Highbanks Metro Park (Delaware Co.), *Higgins 27* (OS, OWU); 30 May 1990—½ mi. W of Hoover Rd., N side of Orders Rd., open woody field border, Jackson Twp., *Lowden 4361*; 16 May 1991—Overbrook Drive Ravine, E of N. High St., Clinton Twp., *Lowden 4631*.

3. **IRIS** L. Iris, Flag

Flowers large and showy, solitary or clustered; sepals spreading or reflexed, petals erect or arching; petaloid style-branches 2-lobed, stigma under a thin transverse flange below apex on dorsal side; one stamen under each style-branch; fruit a 3-loculed capsule.

Species of *Iris* occasionally persisting after cultivation along roadsides are: *Iris chamaeiris* Bert. (Flag, native of SE France to NW Italy), with flowers variable in color, beard of a contrasting color (8 May 1936—escaped from

SISYRINCHIUM
IRIS



cultivation, Cols., *Waller & J. H. Schaffner*). Not treated by Braun (1967). *Iris germanica* L. (Common Iris, a European cultigen). Not mentioned for Franklin Co. by Braun 1967:401.

- a Flowering stems usually not more than 15 cm tall, from superficial rhizomes; sepals not bearded, with 3-ridged, toothed, orange-white crest; perianth blue or violet, rarely white. 1. *I. cristata*
- a' Flowering stems taller than 15 cm, from usually deep rhizomes.
 - b Sepals bearded. *I. germanica* L., Common I.
 - b' Sepals not bearded.
 - c Perianth yellow; petals much shorter than sepals. 2. *I. pseudacorus*
 - c' Perianth blue, lilac, or rarely white, sometimes with spots of other color.
 - d Stem zigzag, shorter than leaves, sometimes decumbent; flowers short-stalked, from all but lowest axils; capsule 6-angled. 3. *I. brevicaulis*
 - d' Stem erect, with flowers on upper part; axillary flowers long-stalked; capsule 3-angled, inner surface dull; petals obovate, little shorter than sepals; sepals with bright yellow pubescent blotch at base. 4. *I. virginica* var. *shrevei*

1. *Iris cristata* Aiton

Crested Dwarf Iris

REFERENCE: Selby 1892a:111 (Georgesville, *Werner*).

NOTE: No specimens seen from Franklin Co. Not mapped for Franklin Co. by Braun 1967:403 (illus. p. 400).

2. **Iris pseudacorus* L.

Yellow Iris, Yellow Water Flag

Naturalized (native of Europe)

Flowers bright yellow; petals much shorter than the unbearded sepals; sepals dark lined towards interior.

HERBARIUM RECORDS: 25 May 1953—along the Olentangy R., Cols., *W. Goslin*; 21 May 1977—swampy ground on bank of Olentangy R., just N of Lane Ave. bridge, Cols., *W. Carr* 228; 22 May 1986—OSU campus, E bank of Olentangy R., N of Drake Union, in mud along edge or river, standing water, Cols., *Hollander* 042; 28 May 1988—along Olentangy R., ¼ mi. from Bethel Rd. & Rt. 315, Cols., *Kelly* 37; 29 May 1988—OSU campus, W bank of Olentangy R., between Lane Ave. bridge & Fawcett Center for Tomorrow, mudflat, *T. Lammers* 6228 (MU, OS); 20 May 1993—bike path along W bank of Olentangy R., ½ mi. S of Antrim Lake, E of Rt. 315, Sharon Twp., *Lowden* 5043.

NOTE: Not mentioned for Franklin Co. by Braun 1967:404 (illus. p. 402).

3. †*Iris brevicaulis* Raf.

Leafy Blue Flag, Lamance Iris, Zigzag Iris

REFERENCES: Braun 1967:404 (illus. p. 405); Stuckey & Roberts 1977:33; Stuckey & Roberts 1982:39; McCance 1984:A-142.

NOTE: No specimens seen from Franklin Co.

4. *Iris virginica* L. var. *shrevei* (Small) E.S. Anderson

Southern Blue Flag

Sepal bases with a yellow-orange blotch; petals only a little shorter than sepals; usually one lateral branch equaling main stalk. Syn.: *I. shrevei* Small

REFERENCES: Riddell 1834:158 (*Iris versicolor*, marshes); Sullivant 1840:41 (*Iris versicolor* L.); Selby & Craig 1890:16 (*Iris versicolor* L.); Braun 1967:404 (illus. p. 406).

HERBARIUM RECORDS: 1840—Cols., *Sullivant*; Jun 1887—Cols., *Craig*; Summer 1988—along Big Darby Creek between I-70 & Little Darby Creek.

ORCHIDACEAE, Orchid Family

Perennial herbs, terrestrial, often with rhizomes or corms; roots sometimes thickened; some species nongreen; leaves solitary or alternate on the stem (or rarely opposite), sometimes all basal; flowers epigynous, bisporangiate, solitary or in clusters; perianth zygomorphic; sepals 3, sometimes 2 of them united; petals 3, one of them, the lip, different from the others in size and shape, sometimes spurred; carpels 3, united; ovary 1-loculed with 3 parietal placentae; fertile stamens 1 or 2 (1 or more staminodes sometimes present), adnate to style and stigma and with them forming the column; pollen in pollinia; fruit a many-seeded capsule.

a Anthers 2; lip petal an inflated sac 2-7 cm long; flowers 1-3. 1. **CYPRIPEDIUM**

a' Anther 1; lip petal not an inflated sac or, if somewhat inflated, smaller.

b Leaves white- or pale-reticulate, in basal rosette. 3. **GOODYERA**

b' Leaves not white- or pale-reticulate.

c Leaves in 1 whorl of usually 5 on the stem; sepals much longer than petals. 7. **ISOTRIA**