

HERBARIUM RECORD: 31 May 1922—Jackson Twp., *J. H. Schaffner*.

2. ZOSTERELLA Small Water Star-grass

Submersed or growing on mud; leaves alternate, linear, sessile; flower solitary, subtended by a spathe; perianth yellow, regular, tube 2-3 cm long, slender, limb spreading; stamens 3, all alike, with sagittate anthers; ovary 1-loculed; placentae 3, parietal.

1. *Zosterella dubia* (Jacq.) Small

Water Star-grass, Yellow-eyed Water Grass

Submersed or growing on mud; leaves alternate, linear; perianth segments 6, yellow. Syn.: *Heteranthera dubia* (Jacq.) MacMill., *H. graminea* Vahl, *Schollera graminea* Vahl, *S. graminifolia* Willd.

REFERENCES: Riddell 1834:158 (standing pools); Sullivant 1840:43; Craig 1890:105 (not so deeply submerged, some of the leaves floating at the surface, the pale yellow flowers rising above the water, found in a small pond just N of the road, where it is quite abundant, 31 Jul 1889); Selby & Craig 1890:16; Braun 1967:316 (illus. p. 315).

HERBARIUM RECORDS: ca. 1890—OSU & Cols., *Craig 8493*; 1890?—OSU pond, Cols., *Selby*; 27 Jul 1891—near Cols., *E. M. Wilcox*.

3. HETERANTHERA Ruiz & Pav. Mud-plantain

Floating or creeping on mud; blades reniform, as wide as or somewhat wider than long; perianth-tube slender, 6-lobed, 5 above and one below, the middle upper one with 2 yellow (or green) spots at base; stamens dimorphic, 2 with yellow ovate anthers, one with greenish larger anther.

1. †*Heteranthera reniformis* Ruiz & Pav.

Mud-plantain

REFERENCES: Riddell 1834:158 (marshes); Riddell 1835:90 (Lockbourne, denuded river banks); Stuckey & Roberts 1982:37 (not located in Ohio since 1849 where recorded from Hamilton and Franklin Cos.).

NOTE: No specimens seen from Franklin Co. Not mapped for Franklin Co. by Braun 1967:317 (known in Ohio from only one Hamilton Co. collection of 1837) (illus. p. 315).

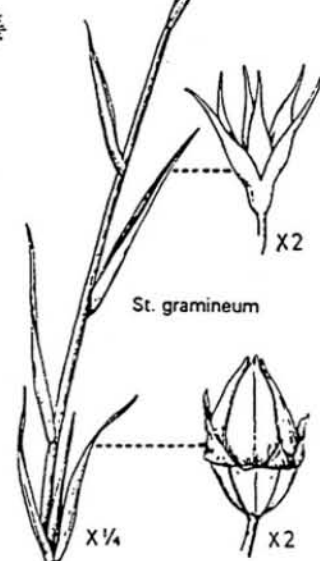
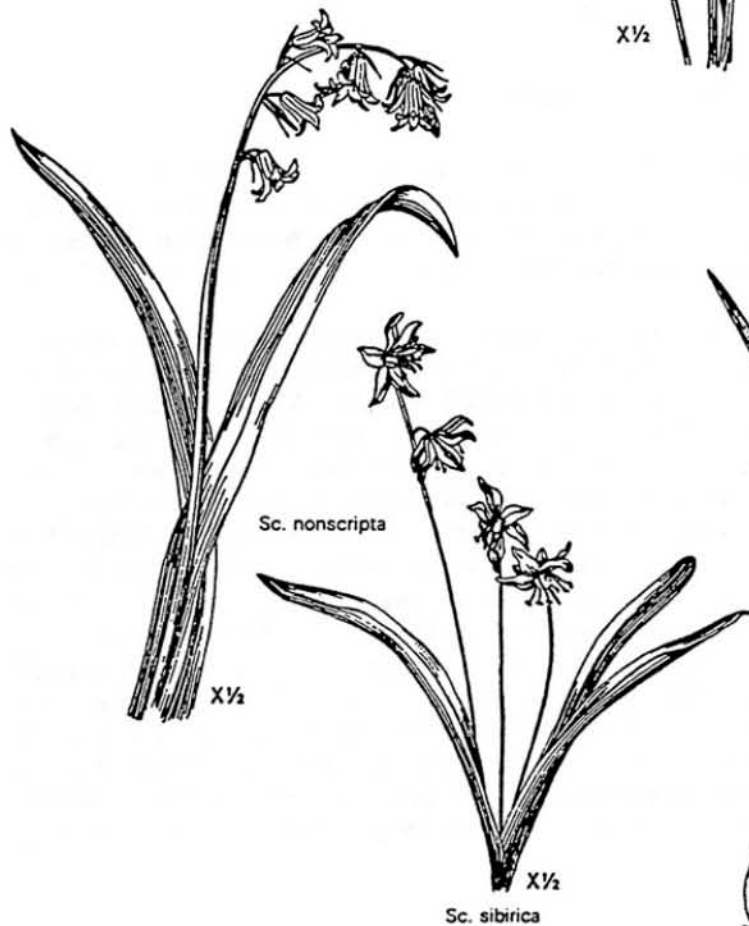
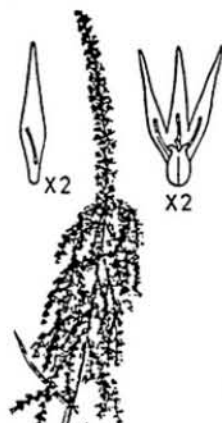
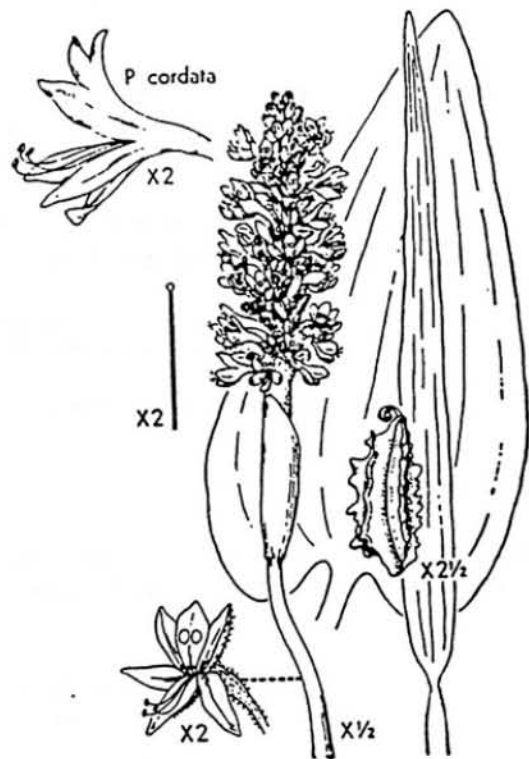
LILIACEAE, Lily Family

Mostly perennial herbs with corms, bulbs, or rhizomes; leaves linear to broad, alternate, opposite, or whorled, often all basal, usually parallel-veined; flowers hypogynous or epigynous, solitary or clustered; perianth regular or nearly so, of 6 or 4 parts, petals and sepals usually similar, separate or united; stamens 6 or 4, free or adnate to perianth; carpels usually 3, united; locules 3; styles 1 or 3 or absent; fruit a berry or capsule. (incl. Amaryllidaceae)

Many varieties of Tulip species (*Tulipa* L.) are cultivated in parks and gardens, as well as species of *Hosta* Tratt. (Plantain-lily). The following garden escapes, not treated by Braun (1967) and not included in the key below, are well established in N Columbus along the Overbrook Drive Ravine: *Scilla nonscripta* Hoffmanns. & Link (English Blueshell, introduced from Eurasia), plants bulbous; scapes about 1 foot long; leaves basal, strap-shaped; perianth segments 1-nerved; stamens united to half way up the perianth; flowers white, blue or lavender, nodding in a terminal raceme; bracts 2, about as long as pedicel; perianth cylindrically or tubular when the flowers open, but bell-form as they spread with age, the segments revolute at tips (11 May 1992—along creek bed directly in front of Canyon Dr., E of N. High St. & S of E. Cooke Rd., Clinton Twp., Cols., *Lowden 4932*). *Scilla sibirica* Andrews (Squill, native of Russia & SW Asia), flowers deep blue; perianth separate to base; scapes overtopping the lanceolate leaves; anthers blue; capsule green (10 Apr 1933—Cols., escape from cultivation, *J. H. Schaffner*; 9 Apr 1992—just E of N. High St. & S of E. Cooke Rd., very common, Clinton Twp., Cols., *Lowden 4893*; 12 Apr 1992—Whetstone Park, in ravine woods just W of High St., Clinton Twp., *Condit*). *Chionodoxa luciliae* Boiss. var. *gigantea* Hort. (Glory-of-the-snow, native of Asia Minor), scapes reaching 6 inches long, about equalling the long-lanceolate leaves; leaves 2; flowers 1-4, blue with whitish center, spreading or ascending; petals united at base in a short tube (approx. 4 mm long); bracts at base of pedicels minute, whitish and deltoid to linear, reaching 4.0 mm long; anthers yellow, filaments white, as broad or broader than anthers; capsules blue-violet (9 Apr 1992—just E of N. High St., along N bank of creek, uncommon, scattered, Clinton Twp., Cols., *Lowden 4894*).

a Ovary wholly inferior.

PONTEDERIA
 ZOSTERELLA
 HETERANTHERA
 SCILLA
 TOFIELDIA
 STENANTHIUM



- y' Perianth 6-parted.
 - z Dioecious; inflorescence a spikelike raceme. **5. CHAMAELIRIUM**
 - z' Not dioecious; flowers monosporangiate or perfect, in a raceme or panicle; if in a panicle, then perianth 3 mm long or less, shorter than stamens. **18. SMILACINA**
- v' Leaves all basal or nearly basal; scape sometimes with bracts.
 - aa Ovary partly inferior; perianth segments with 1 or 2 glands at base. **3. ZIGADENUS**
 - aa' Ovary superior; perianth without glands.
 - bb Scape glutinous with dark glands; styles 3. **1. TOFIELDIA**
 - bb' Scape not glutinous; style 1.
 - cc Filaments slender; perianth blue. **7. CAMASSIA**
 - cc' Filaments broad; perianth white. **8. ORNITHOGALUM**

1. TOFIELDIA Huds. False Asphodel

Leaves linear, 2-ranked, basal or subbasal; inflorescence a raceme; scape glutinous with dark glands, usually with 1 bractlike leaf; perianth segments separate, white, about 4 mm long; seed appendaged at each end.

1. †*Tofieldia glutinosa* (Michx.) Pers. False Asphodel

Leaves linear, basal-subbasal, 2-ranked; flowers white, in a raceme; scape glutinous with dark glands.

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

NOTE: *Sullivant* 1840:43 and *Selby & Craig* 1890:16 reported on plants collected in adjacent counties. Not mapped for Franklin Co. by *Braun* 1967:339 (illus. p. 340).

2. STENANTHIUM (A.Gray) Kunth

Stems tall; leaves elongate, linear, many, chiefly cauline; flowers in a long panicle; perianth segments separate, white or greenish, 1 cm long or less; ovary partly inferior; fruit a capsule.

1. †*Stenanthium gramineum* (Ker Gawl.) Morong var. *gramineum* Featherbells

Stems tall; leaves long, cauline, linear; inflorescence a long panicle; flowers white-greenish; leaves narrow, about 6-8 mm wide. Syn.: *S. angustifolium* A.Gray, *Veratrum angustifolium* Pursh

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

NOTE: *Sullivant* 1840:43 (*Veratrum angustifolium*) and *Selby & Craig* 1890:16 (*Stenanthium angustifolium*) reported on plants collected in adjacent counties. Not mapped for Franklin Co. by *Braun* 1967:341 (illus. p. 338).

3. ZIGADENUS Michx. Death-camas

Leaves linear, elongate, chiefly basal; flowers bisporangiate or monosporangiate, in a raceme or panicle; perianth segments separate or united at base, about 1 cm long, greenish-white, sometimes bronze or purplish beneath, each with 2-lobed gland at base; ovary partly inferior; fruit a capsule.

1. †*Zigadenus elegans* Pursh var. *glaucus* (Nutt.) Preece Wand-lily, White Camass

Syn.: *Zygadenus glaucus* (Nutt.) Nutt.

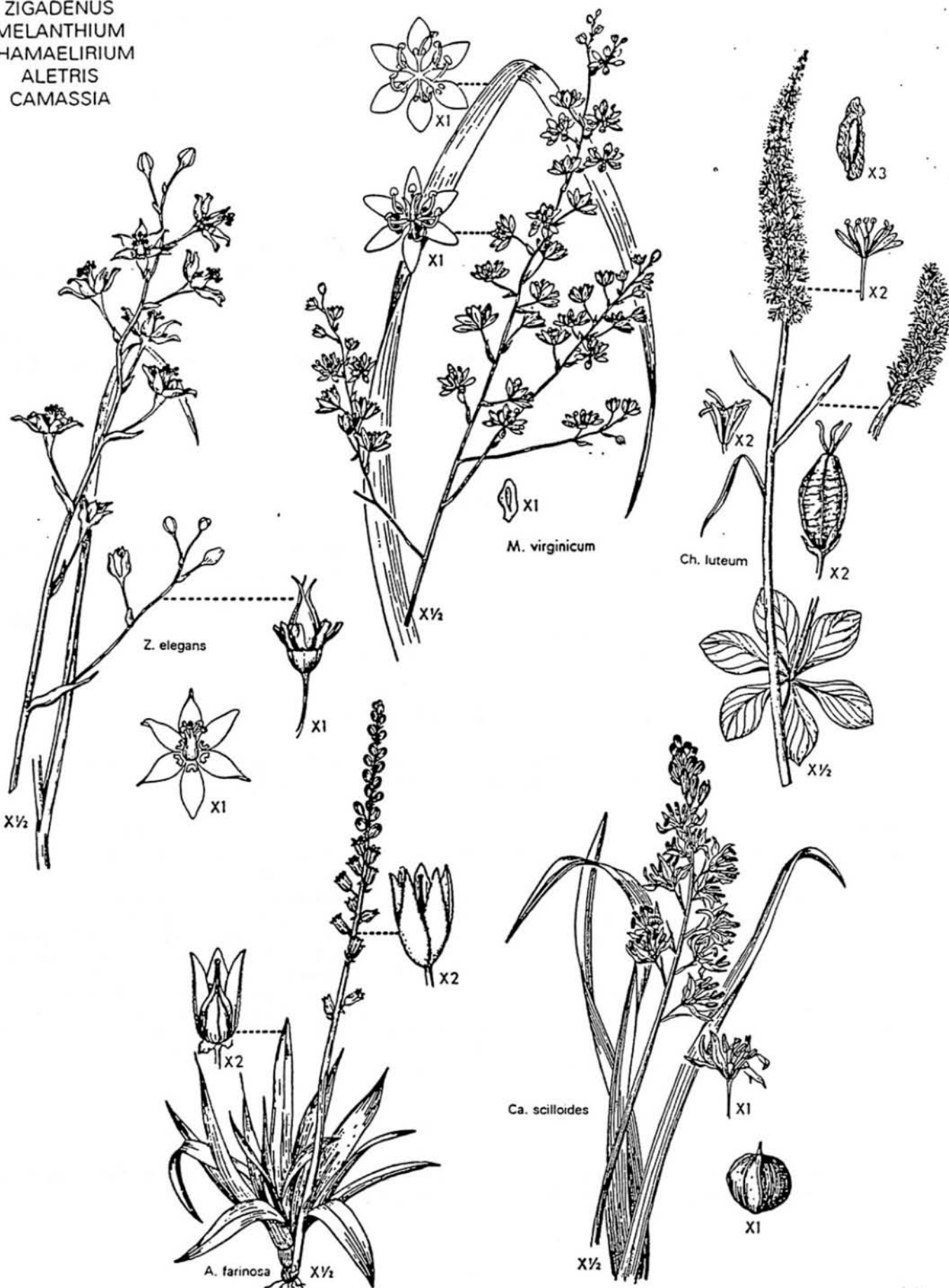
REFERENCES: *Sullivant* 1840:43, 61 (rare with us, found by L. Starling, Jr., wet prairie, 2 mi. S of Cols.); *Selby & Craig* 1890:16.

NOTE: No specimens seen from Franklin Co. Not mapped for Franklin Co. by *Braun* 1967:341 (illus. p. 340).

4. MELANTHIUM L. Bunch-flower

Stem tall and leafy; leaves broadly linear; flowers in a large terminal panicle with pubescent axis, some bisporangiate, some monosporangiate; perianth segments separate, 1.5 cm long or less, spreading, clawed, each with 2 glands at base; stamens adnate to the claws; fruit a capsule.

ZIGADENUS
MELANTHIUM
CHAMAELIRIUM
ALETRIS
CAMASSIA



1. †*Melanthium virginicum* L. Bunch-flower

Stem and inflorescences pubescent; leaves linear, elongate; flowers creamy or greenish-yellow, turning brown or purplish in large panicles; sepals and petals gland-bearing and clawed. Syn.: *M. hybridum*, *Leimanthium virginicum* Willd., *Veratrum virginicum* (L.) W.T.Aiton

REFERENCES: Riddell 1834:158 (dry prairies); Sullivant 1840:43, 60-61; Selby & Craig 1890:16; Braun 1967:342 (illus. p. 340); Stuckey & Roberts 1982:38; McCance 1984:A-133.

HERBARIUM RECORD: [ca. 1834]—Cols., *Lapham* (CINC).

NOTE: Riddell misapplied the name *Melanthium hybridum* to this taxon (Gray's Manual 1950:428, not in Ohio).

5. CHAMAELIRIUM Willd. Devil's Bit

Basal leaves oblanceolate, petioled; stem-leaves smaller; dioecious; flowers in racemes; perianth segments separate, white, about 3 mm long; stamens about as long as perianth, filaments flat, anthers white, carpellate flowers with vestigial stamens; stigmas 3; fruit a capsule.

1. *Chamaelirium luteum* (L.) A.Gray var. *luteum* Devil's Bit

Dioecious; stem wand-like; leaves oblanceolate to obovate, crowded in basal rosette and more widely spaced along stem; pistillate and staminate inflorescences spike-like racemes.

REFERENCE: Riddell 1834:158 (*Helonias dioica*, dry prairies).

HERBARIUM RECORD: 1837—Cols., *I. G. Jones* (ILL).

NOTE: Not mapped for Franklin Co. by Braun 1967:339 (illus. p. 338).

6. ALETRIS L. Colic-root

Leaves lanceolate, in a basal rosette; flowers small, bracted, in a spikelike raceme; scape bracted; perianth tubular, white, about 1 cm long, rough; ovary partly inferior; style 3-cleft at apex, each stigma 2-lobed.

1. †*Aletris farinosa* L. Colic Root, Stargrass, Unicorn-root

REFERENCES: Sullivant 1840:43; Selby & Craig 1890:16.

NOTE: No specimens seen from Franklin Co. Not mapped for Franklin Co. by Braun 1967:382 (in dry or moist, usually sandy soil) (illus. p. 384).

7. CAMASSIA Lindl. Camas

Stem scapose; leaves linear, basal; flowers in a raceme, bracts about as long as pedicels; perianth segments separate, blue, about 1-1.5 cm long; filaments elongate; style slender; fruit a capsule.

1. *Camassia scilloides* (Raf.) Cory Wild Hyacinth, Quamash

Plants bulbous; flowers pale blue in open raceme; leaves linear, basal, up to 1.5 cm wide, and to 4 dm long; fruit a capsule. Syn.: *C. fraseri* Torr., *Phalangium esculentum* Nutt., *Scilla fraseri* A.Gray

REFERENCES: Riddell 1834:158 (slaty ravines); Sullivant 1840:44; Craig 1890:104 (in the woods, but very rare; I found three specimens this spring near the E fence; 14 May 1882, 24 May 1883, 24 May 1885, 13 May 1887, 23 May 1888); Selby & Craig 1890:16; Braun 1967:359 (illus. p. 358).

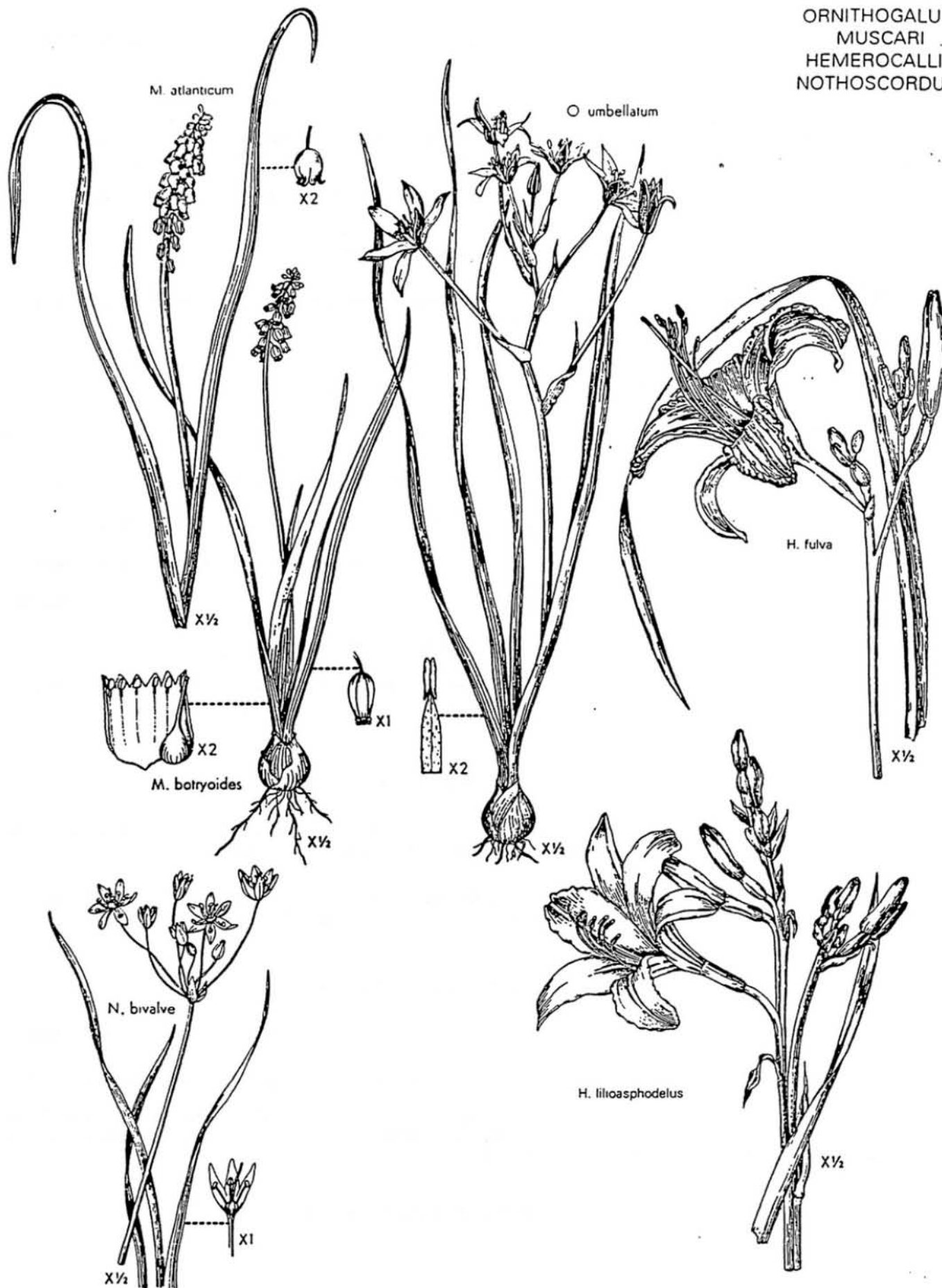
HERBARIUM RECORDS: 1840—Cols., *Sullivant*; 15 May 1882—Scioto Station, *Devol*; May 1891—Cols., Woodland Ave., *Selby* (WOOS); 21 May 1892—Alum Creek, near Cols., *E. M. Wilcox*; 25 May 1911—Westerville, *Hanawalt*; 21 May 1970—Blendon Woods, in wet bottomland beside stream, *Boone 161*; 20 May 1982—Blendon Woods, intersection of Cherry Ridge & Brookside trails, and along bridge on Cherry Ridge trail, *Owens*; 23 May 1989—Overbrook Drive Ravine, E of N. High St., Clinton Twp., *Lowden 4077*; 24 May 1989—Highbanks Metro Park (Delaware Co.), river bank, *Higgins 30* (OS, OWU); 28 May 1989—Highbanks Metro Park (Delaware Co.), wooded floodplain hillside, E bank of Olentangy R., 1 mi. S of Powell Rd., *Morawetz 94* (OS, OWU); 16 May 1991—Overbrook Drive Ravine, E of N. High St., Clinton Twp., *Lowden 4628*; 14 May 1992—Battelle Draby Creek Metro Park, foot of Cedar Ridge, along Big Darby Creek, Pleasant Twp., *Lowden 4938*.

NOTE: Names in synonymy not found in Braun (1967) nor in Gray's Manual (1950).

8. ORNITHOGALUM L. Star of Bethlehem

Leaves basal, linear, fleshy; stem scapose, bracted; perianth segments separate, white with median green dorsal band; filaments flat; style 3-angled; stigma 3-lobed or -ridged; fruit a capsule.

ORNITHOGALUM
MUSCARI
HEMEROCALLIS
NOTHOSCORDUM



1. **Ornithogalum umbellatum* L.

Star of Bethlehem

Naturalized (native of Europe)

Leaves basal, linear; flowers in a corymb; perianth segments separate, 1-2 cm long, white with median green dorsal band; filaments tapering to apex.

REFERENCE: Selby 1891a:111a.

HERBARIUM RECORDS: 16 May 1899—vacant lot, Cols., *Fullmer*; 26 May 1983—Blendon Woods, *Owens*; 12 May 1986—Highbanks Metro Park (Delaware Co.), open fields, floodplain, *Watts 303 & 304* (OS, OWU); 22 May 1988—Highbanks Metro Park (Delaware Co.), former lawn area, *Morawetz 75* (OS, OWU); 19 May 1990—Blacklick Creek intersection with Morse Rd., Jefferson Twp., *Lowden 4315*; 23 May 1990—N side of Central College Rd., 0.25 mi. W of Franklin/Licking Co. line, woody area, Plain Twp., *Lowden 4332*; 16 May 1991—Overbrook Drive Ravine, E of N. High St., Clinton Twp., *Lowden 4629*.

NOTE: Not mentioned for Franklin Co. by Braun 1967:360 (often a troublesome weed; reported from a third of the Ohio counties) (illus. p. 358).

9. MUSCARI Mill. Grape-hyacinth

Leaves basal, linear, fleshy; stem scapose; perianth dark blue or purple, 6-toothed, 4-6 mm long; stamens short, on perianth tube, style short; stigma 1; fruit a capsule.

a Perianth oblong; leaves 2-3 mm wide, tips recurved. 1. *M. atlanticum*

a' Perianth globular; leaves 6-12 mm wide, tips not recurved. 2. *M. botryoides*

1. **Muscari atlanticum* Boiss. & Reut.

Blue-bottle

Cultivated Escape (native of Europe)

Like *Muscari botryoides*, but leaves 2-4 mm wide, tips recurved; perianth oblong cylindrical. Syn.: *M. racemosum* (L.) Mill., misapplied

HERBARIUM RECORDS: May 1890—wild along CCC & St. L track W of Cols. near "Jaegers ice house No 19," *Craig*; 10 Apr 1927—Briggsdale, escaped, *Gordon*; 8 May 1989—Overbrook Drive Ravine, E of N. High St., Clinton Twp., *Lowden 4001*.

NOTE: Not mentioned for Franklin Co. by Braun 1967:336, 360. Voss 1972:419, "not *Muscari racemosum* Mill., a name long applied erroneously."

2. **Muscari botryoides* (L.) Mill.

Grape-hyacinth

Cultivated Escape (native of Europe)

Leaves linear, 6-12 mm wide, basal, fleshy; perianth subglobular, dark blue or purple.

REFERENCE: Selby 1891a:111a.

HERBARIUM RECORDS: [no date]—Westerville, *Barnhard*; May 1890—wild along CCC & St. L track W of Cols. near "Jaeger ice house No 19," *Craig*; 9 Apr 1992—Overbrook Drive Ravine, just E of N. High St. & S of E. Cooke Rd., Clinton Twp., *Lowden 4896*.

NOTE: Not mentioned for Franklin Co. by Braun 1967:336, 360.

10. HEMEROCALLIS L. Day-lily

Leaves basal, linear, 2-ranked; flowers large, lasting but a day, in terminal clusters; perianth funnellform, narrow, limb spreading; stamens inserted at top of perianth-tube; style elongate; stigma capitate; fruit a capsule.

Surely, the commonly cultivated *Hemerocallis lilio-asphodelus* L. (Yellow Day-lily), better known as *Hemerocallis flava* (L.) L., an illegitimate name, will escape from gardens and be found along the county's roadsides.

a Perianth orange, about 1 dm long. 1. *H. fulva*

a' Perianth yellow, somewhat smaller. *H. lilioasphodelus* L., Yellow Day-lily

1. **Hemerocallis fulva* (L.) L.

Orange Day-lily, Common Day-lily

Adventive (Eurasian)

Flower orange, large, lasting a day; leaves linear, subbasal, 2-ranked; fruit a capsule. Common along roadsides.

REFERENCE: Selby & Craig 1890:16.

HERBARIUM RECORDS: Jul 1911—Westerville, escaped from cult., *Hanawalt*; 7 Jun 1962—Rt. 315, Olentangy River Rd., 0.2 mi. S of Rt. 161, roadside, *E. Herrick*; 23 Jun 1987—along the Chesapeake & Ohio RR tracks at the Bethel Rd. overpass, Perry Twp., *T. Lammers & Lewis 6130*.

NOTE: Not mentioned for Franklin Co. by Braun 1967:350 (illus. p. 361).

11. NOTHOSCORDUM Kunth False Garlic

Bulb tunicate; leaves linear, basal; flowers in terminal umbel; perianth white or greenish, about 1 cm long, segments separate or united at base; capsule subglobose.

1. †*Nothoscordum bivalve* (L.) Britton

False Garlic

Plants without odor of onion; bulb truncate; leaves linear, basal, flowers 8-9 mm long, in terminal umbel; perianth greenish or white.

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

NOTE: Not mapped for Franklin Co. by Braun 1967:349 (illus. p. 344).

12. ALLIUM L. Onion, Garlic, Leek

Stems from tunicate bulbs; leaves narrowly linear or elliptic; flowers in umbels subtended by 1-3 bracts; perianth segments separate or nearly so, about 0.5-1.5 cm long, white, pink, purple, or green; filaments sometimes flat, sometimes toothed or lobed at apex; style filiform or 3-lobed; capsule lobed; seeds black, 1-2 in each locule.

Common food species planted in gardens are *Allium cepa* L. (Common Onion), †*A. schoenoprasum* L. (Chives), *A. porrum* L. (Leek), and *A. sativum* (Garlic).

a Leaves elliptic-lanceolate, appearing early and shriveling before anthesis; perianth white. 3. *A. tricoccum*

a' Leaves linear, present at anthesis.

b Leaves terete or nearly so, at least the lower portion hollow.

c Umbel usually bearing bulblets; inner filaments with 2 long-appendaged teeth at apex; stem leafy to about the middle; bract 1. 5. *A. vineale*

c' Umbel usually without bulblets; inner filaments without teeth or the teeth not appendaged.

d Stem inflated; perianth white or green; leaves basal; bract 1. 6. *A. cepa*

d' Stem slender; perianth pink or purple; bracts 2-3. 4. *A. schoenoprasum*

b' Leaves flat, solid, basal or subbasal; inner filaments without teeth or teeth unappendaged; bracts 2-3.

e Umbel erect, bearing bulblets; bulb coat reticulate, the areas diamond-shaped; ovary not crested. 1. *A. canadense*

e' Umbel nodding, without bulblets; bulb coat longitudinally nerved, not reticulate; ovary crested. 2. *A. cernuum*

1. *Allium canadense* L.

Wild Garlic, Meadow Garlic

Leaves linear, flat, 1-2 mm wide, basal-subbasal, present at anthesis; umbel composed of sessile bulblets and slender pedicelled pink erect flowers; bulb coat reticulate with diamond-shaped areas. Syn.: *A. canadense* Kalm

REFERENCES: Riddell 1834:158 (meadows); Sullivant 1840:43; Selby & Craig 1890:16; Braun 1967:347 (illus. p. 348).

HERBARIUM RECORDS: Jun 1892—Cols., *Werner*; 10 May 1896—W Cols., *M. Wright*; 25 May 1911—Westerville, *Hanawalt*; 26 May 1922—Westerville, *George*; 24 May 1963—thickets along W bank of Olentangy R. at Dodridge St. dam, Cols., *Cusick*; 6 Jun 1989—Turkey Run, between Olentangy River Rd. & Pegg Ave. just S of Highland Dr., Clinton Twp., *Lowden 4101*; 16 May 1991—Overbrook Drive Ravine, E of N. High St., Clinton Twp., *Lowden 4630*; 25 May 1991—path along E bank of Olentangy R., between Whetstone & Northmoor Parks, Clinton Twp., *Lowden 4635*.

2. *Allium cernuum* Roth

Nodding Wild Onion, Nodding Garlic, Nodding Onion

Leaves linear, flat, 2-8 mm wide, basal-subbasal, present at anthesis; umbel nodding, bend in stem near base of umbel; flowers without bulblets; ovary crested; bulb coat membranous, longitudinally nerved.

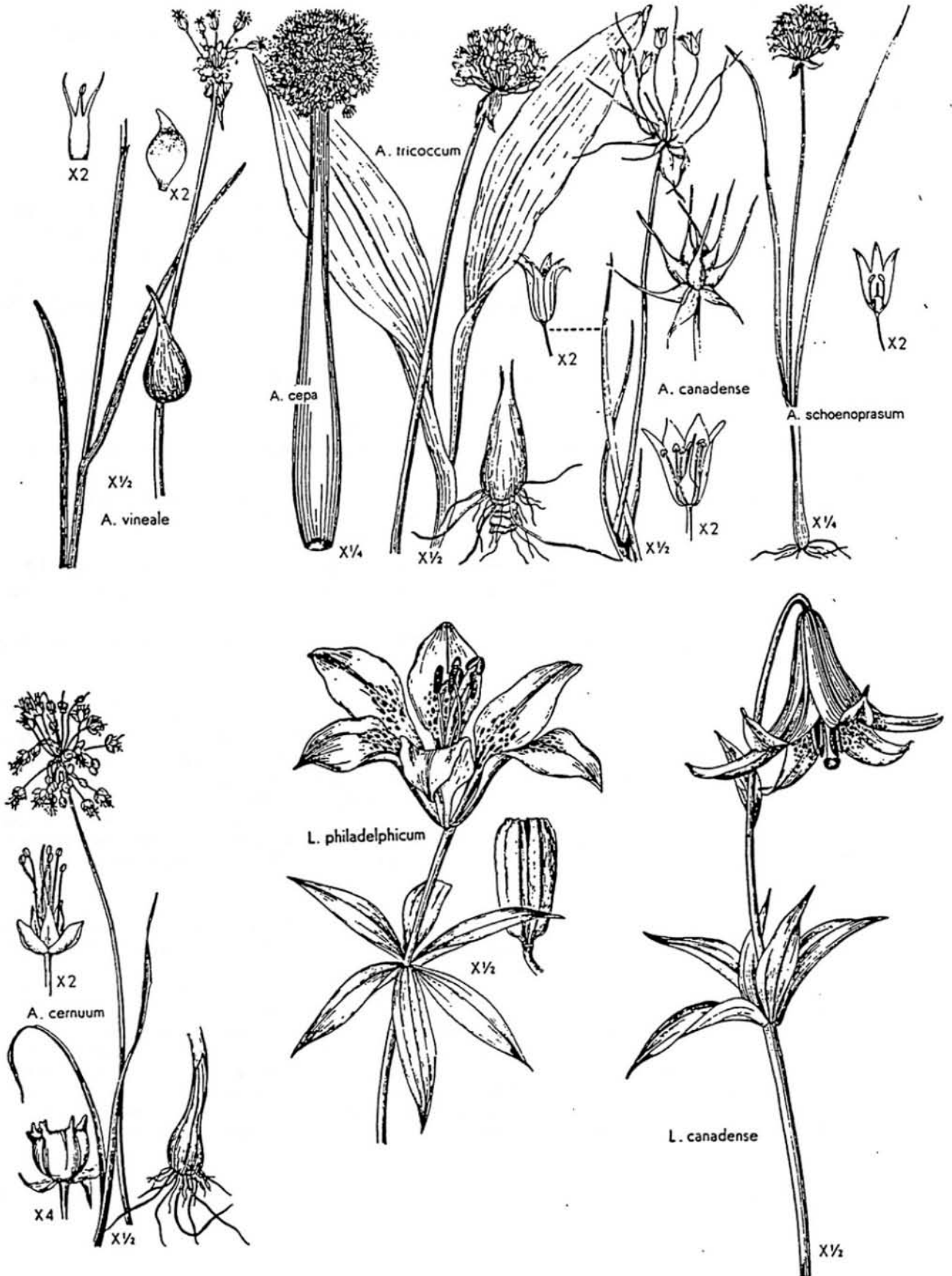
REFERENCES: Riddell 1834:158 (dry prairies); Sullivant 1840:43; Craig 1890:104 (a few specimens were found last summer, on the hillside E of the culvert, 19 Jul 1882, 1 Jun 1884, 6 Jun 1888); Selby & Craig 1890:16; Braun 1967:347 (illus. p. 348).

HERBARIUM RECORDS: 1840—Cols., *Sullivant*; 19 Jul 1882—Haydens Falls, *Devol*; 12 Jul 1890—Cols., *H. Jones*; 20 Jul 1890—banks of the Scioto R., *Selby*; Jun 1892—near Cols., *E. M. Wilcox*; 29 Aug 1892—Georgesville, *Werner* (CLM, OS); 5 May 1903—Cols., *Morse*; 17 Jul 1977—thin soil over limestone bedrock, edge of woods, Hayden Run Rd., at bridge over Scioto R., just N of Cols., *W. Carr 510*; 28 Jul 1979—dry soil in idle limestone quarry on E bank Scioto R., 1 mi. S of Dublin on Rt. 33, *W. Carr 1754*; 4 Jul 1980—limestone bluff edge of woods, above Hayden Run, in small park S of Hayden Run Rd., W of bridge over Scioto R., NE corner Norwich Twp., NW Cols. Quad., *Shelly 54* (MU); 22 Aug 1986—Highbanks Metro Park (Delaware Co.), dry overlook ridge tops, *Watts* (OS, OWU); 31 Jul 1991—Hayden Falls, W of Scioto R. off Hayden Run Rd., Norwich Twp., *Lowden 4473*.

3. *Allium tricoccum* Aiton

Wild Leek, Ramp

ALLIUM
LILIUM



Leaves lanceolate to elliptic (up to 8 mm wide); narrowed to petioles, dying before anthesis; flowers white-greenish. Syn.: *A. burdickii* (Hanes) A.G.Jones, *A. tricoccum* var. *burdickii* Hanes
REFERENCES: Sullivant 1840:43; Selby & Craig 1890:16; Braun 1967:349 (illus. p. 348).
HERBARIUM RECORDS: 17 Jun 1892—Cols., *W. Kellerman* (annotated *A. burdickii* by A. G. Jones); 8 Jun 1901—Franklin Co., *Mead*; 8 Jul 1982—Blendon Woods, *Owens*; 17 Jul 1987—Highbanks Metro Park (Delaware Co.), in woods throughout park, *Watts 384* (OS, OWU); 7 Jun 1991—Boyer Park, end of Park St., E of Rt. 3, Westerville, Blendon Twp., *Lowden 4668*.

4. *†*Allium schoenoprasum* L.

Chives

Cultivated (European)

Leave linear, terete, hollow, present at anthesis; perianth pink-purple.

HERBARIUM RECORDS: 28 May 1929—OSU farm plots, *Willard*; 30 Apr 1985—abandoned garden, rear of 1455 Highland St., Cols., *Crowell 17*.

NOTE: Not mentioned for Franklin Co. by Braun 1967:347.

5. **Allium vineale* L.

Field Garlic

Naturalized (native of Europe)

Leaves linear, terete, hollow, cauline to about the middle of the stem, present at anthesis; flowers replaced by bulblets.

REFERENCE: Selby 1891a:111a.

HERBARIUM RECORDS: 1 Jul 1891—Cols., *Lazenby*; 15 Jun 1900—OSU campus, Cols., *Tyler & Griggs*; 16 Jun 1922—Cols., *J. H. Schaffner*, 20 Aug 1937—Cols., *Blaydes*; 14 Jun 1986—Highlands Metro Park (Delaware Co.), big meadow's fields, *Morawetz*.

NOTE: Not mentioned for Franklin Co. by Braun 1967:347 (a common and troublesome weed in lawns, fields, and pastures, roadsides and gardens).

6. **Allium cepa* L.

Common Onion

Cultivated Escape (origin unknown)

Leaves linear, terete, hollow, present at anthesis; stem inflated; perianth white-green.

HERBARIUM RECORD: 1 May 1938—Cols., spontaneous on RR embankment, *J. H. Schaffner*.

NOTE: Not mentioned for Franklin Co. by Braun 1967:347.

13. LILIUM L. Lily

Stems tall, from scaly bulbs; leaves lanceolate, sessile, all alternate, or some alternate and some whorled on same stem; flowers large and showy, in clusters or solitary; perianth segments separate, yellow, orange, or red (white or pink in some cultivated species), often purple- or brown-spotted; anthers versatile; style 1; stigma 3-lobed. A number of exotic species are cultivated in gardens.

a Perianth segments with claws; flowers erect. 1. *L. philadelphicum*

a' Perianth segments without claws; flowers drooping, buds and fruits erect.

b Perianth segments spreading. 2. *L. canadense*

b' Perianth segments recurved, the tips at or near perianth-base.

c Midvein of sepals low and rounded; anthers mostly less than 2 mm long; some blades more or less scabrous on veins beneath. 3. *L. michiganense*

c' Midvein of sepals raised and 2-ridged; anthers mostly 2-2.5 mm long; blades smooth beneath.

4. *L. superbum*

1. †*Lilium philadelphicum* L. var. *andinum* (Nutt.) Ker Gawl.

Wood Lily

Flowers erect; sepals and petals clawed; leaves linear to narrowly lanceolate, whorled above, alternate below on stem.

REFERENCES: Riddell 1834:158 (dry prairies); Sullivant 1840:44; Selby & Craig 1890:16.

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

NOTE: Not mapped for Franklin Co. by Braun 1967:351 (illus. p. 352).

2. *Lilium canadense* L.

Canada Lily, Wild Yellow Lily

Stems tall; leaves lanceolate, sessile, whorled; flowers nodding; sepals and petals recurved from above middle or only spreading; filaments parallel to style.

REFERENCES: Riddell 1834:158 (meadows); Sullivant 1840:44; Selby & Craig 1890:16; Braun 1967:353 (illus. p. 354).

HERBARIUM RECORDS: Jul 1891—Big Woods, Worthington, *Selby* (OS, WOOS); 25 May 1900—Cols., *J. H. Schaffner*, 23 Jan 1911—Clintonville, *J. H. Schaffner*; 9 Jul 1982—Blendon Woods, just inside woods bordering the road (N side) between the two entrances to Ripple Rock trail, *Owens*.

3. *Lilium michiganense* Farw.

Michigan Lily

Leaves whorled, margins and veins beneath roughened; similar to *Lilium canadense* except sepals and petals recurved from below middle, tips curved beyond base of tube; filaments outwardly arched.

REFERENCE: Braun 1967:353 (illus. p. 354).

HERBARIUM RECORDS: 28 Jun 1892—Worthington Woods, *W. Kellerman*; 11 Jun 1963—open sunny floodplain along brook, Spring Hollow Metro Park, Blendon Twp., *E. Thomas*; 13 Jun 1991—Friendship Park, jct. of Big Walnut & Rocky Fork Creek, S of Rt. 317, Gahanna, Mifflin Twp., *Lowden 4689*.

4. †*Lilium superbum* L.

Turk's-cap Lily

REFERENCES: Sullivant 1840:44; *Selby & Craig* 1890:16.

NOTE: No specimens seen from Franklin Co. Not mapped for Franklin Co. by Braun 1967:351 (illus. p. 352).

14. ERYTHRONIUM L. Dog-tooth Lily, Fawn Lily, Trout Lily

Stem from a deep corm; leaves 2, smooth, somewhat fleshy, mottled, elliptic, appearing basal; flowers solitary, nodding; perianth segments separate, 2-4 cm long; filaments flattened below; fruit a capsule.

a Perianth yellow; stigmas erect; mature capsule rounded at tip, style not persistent. 1. *E. americanum*

a' Perianth white tinged with blue or pink; stigmas spreading. 2. *E. albidum*

1. *Erythronium americanum* Ker Gawl.

Yellow Fawn-lily, Dog's-tooth Violet, Yellow-adder-tongue

Differing from *Erythronium albidum* by having flowers yellow, stigmas erect. Syn.: *E. americanum* Sm.

REFERENCES: Riddell 1834:158; Sullivant 1840:43; *Craig* 1890:104 (common along the river and in the woods, 11 Apr 1882, 14 Apr 1883, 17 Apr 1884, 26 Apr 1885, 16 Apr 1886, 10 Apr 1887, 18 Apr 1888, 10 Apr 1889); *Selby & Craig* 1890:16; Braun 1967:357 (illus. p. 356).

HERBARIUM RECORDS: 1888—Cols., *Selby*; ca. 1890—Cols., *Craig*; 12 Apr 1890—Olentangy R., N of Cols., *H. Richardson*; May 1890—Cols., *Selby*; 5 Apr 1892—Cols., *Bogue*; 1 May 1892—Scioto R., near Cols., *E. M. Wilcox*; 15 Apr 1899—Blendon, *Helfrich*; 4 May 1911—Westerville, Alum Creek bank, *Hanawalt*; 6 & 16 Apr 1925—Westerville, moist open wooded slopes, *Camp*; Apr 1927—Alum Creek bank, *Kelchner*; 14 Apr 1967—on broken limestone rocky slope, E bank of Scioto R., approx. ¼ mi. S of Dublin, Perry Twp., *Stuckey 3420*; 18 Apr 1970—entrance at Blendon Woods City Park, slope in floodplain in wooded area, Blendon Twp., *Roberts 137*; 19 Apr 1970—E side of Scioto R., in floodplain & on hillside, ½ mi. S of Dublin, *Roberts 142*; 26 Apr 1970—along stream in Whetstone Park, Clintonville, *W. Owen 093*; 8 May 1981—Alum Creek Dr. & Bixby Rd. along N side of Big Walnut Creek, *Albanese 12*; 23 Apr 1982—Blendon Woods, *Owens*; 5 Apr 1986—Highbanks Metro Park (Delaware Co.), Talking Rock Woods, near Olentangy R., *Witsberger 876* (OS, OWU); 8 May 1989—Overbrook Drive Ravine, between N. High St. & Cooke Rd., Clinton Twp., *Lowden 4021*; 11 Apr 1991—Antrim Park, woody area between lake and Olentangy R., Sharon Twp., *Lowden 4583*; 12 Apr 1992—Whetstone Park, W of High St., *Condir*; 15 Apr 1992—Camp Mary Orton (Godman Guild), N of Worthington & W of Rt. 23, woods near Flint Ravine & Olentangy R., Sharon Twp., *Lowden 4905B*.

2. *Erythronium albidum* Nutt.

White Fawn-lily, White Dog-tooth Violet

Flowers white, nodding, suffused with blue or pink; stigmas spreading to recurved; style linear; leaves mottled, elliptic, somewhat fleshy, appearing basal; fruit a capsule.

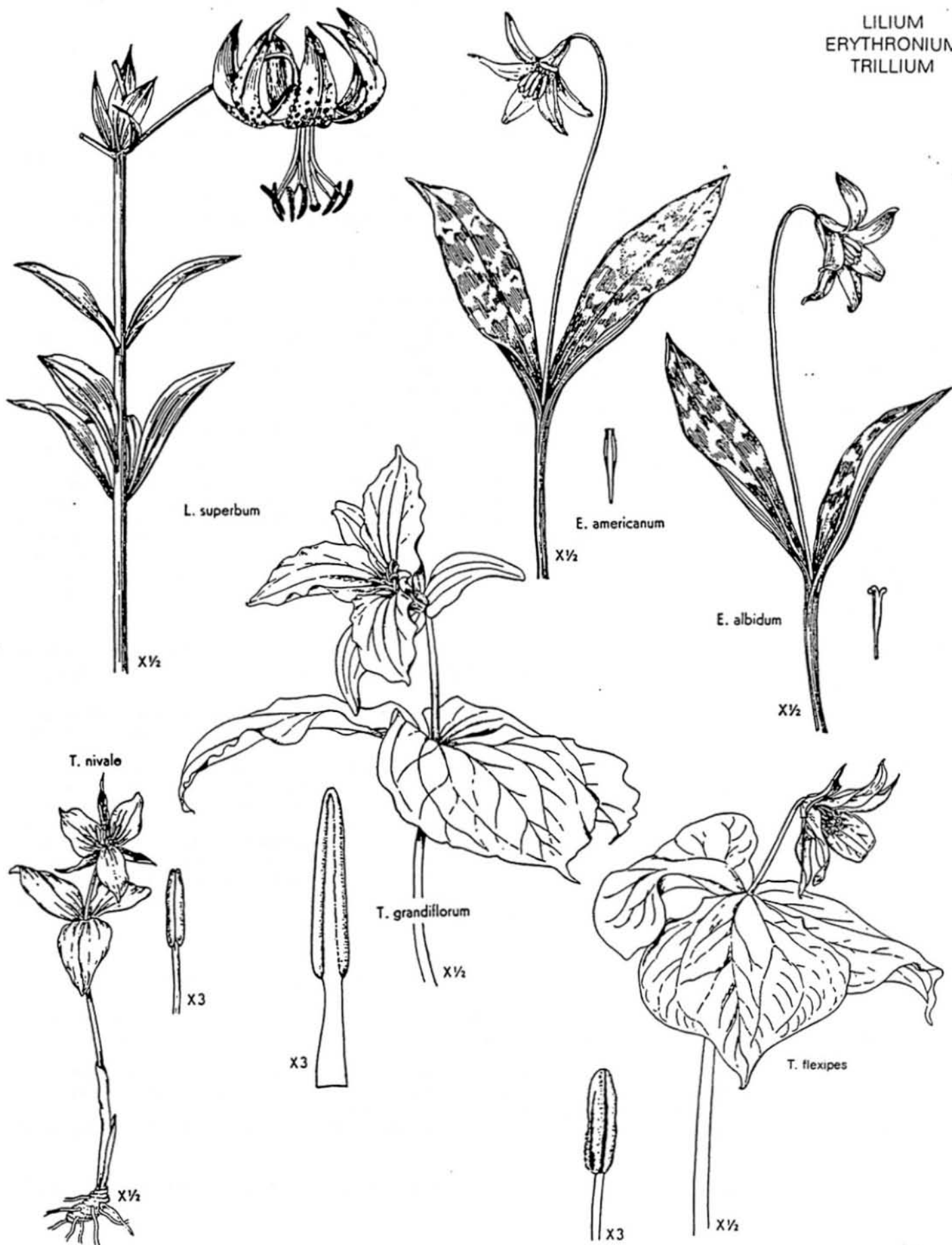
REFERENCES: Riddell 1834:158 (bottomland); Sullivant 1840:43, 61; *Craig* 1890:105 (common along the river S of the road, 11 Apr 1882, 27 Apr 1883, 16 Apr 1884, 28 Apr 1885, 15 Apr 1887, 14 Apr 1888, 11 Apr 1889); *Selby & Craig* 1890:16; Braun 1967:357 (illus. p. 356).

HERBARIUM RECORDS: 1840—Cols., *Sullivant*; 12 Apr 1882—Olentangy R., Cols., *W. Green*; 1888—Cols., *Selby* (OS, WOOS); Spring 1889 & May 1889—Cols., *Craig*; 12 Apr 1890—N Cols., *H. Richardson*; 17 May 1893—Scioto R., near Cols., *E. M. Wilcox*; 15 Apr 1899—Blendon, *Helfrich*; 2 May 1911—Westerville, creek banks, *Hanawalt*; 2 May 1924—Westerville, creek bottom, *Lehman*; 15 Apr 1925—Westerville, moist slopes, *Steele*; 14 Apr 1963—in woods along E side of Olentangy R., N of Lane Ave., Cols., *Cusick*; 18 Apr 1986—Highbanks Metro Park (Delaware Co.), woods, *Watts 282* (OS, OWU); 19 Apr 1986—woodland, 1.5 mi. W of jct. of Rt. 33 & Glick Rd., 0.2 mi. N of Glick Rd., *Yang 104*; 20 Apr 1988—½ mi. N of Henderson Rd., along General Teeter bike path, 200 feet from W bank of Olentangy R., *Chinery 08*; 9 Apr 1991—Antrim Park, between lake and Olentangy R., Sharon Twp., *Lowden 4570*; 13 & 15 Apr 1992—Camp Mary Orton (Godman Guild), N of Worthington & W of Rt. 23, woods near Flint Ravine & the Olentangy R., Sharon Twp., *Lowden 4904 & 4905A*.

15. TRILLIUM L. Trillium, Wake Robin

Stem with a whorl of 3 oval to broadly ovate leaves, from a rhizome; perianth of 3 green sepals and 3 white or colored petals; petals usually 2-5 cm long; anthers linear; ovary and capsule lobed or angled, sometimes winged; ovules many.

LILIUM
ERYTHRONIUM
TRILLIUM



- a Flowers sessile; petals maroon to yellow-green or green; sepals not recurved; leaves sessile. 4. *T. sessile*
- a' Flowers peduncled.
- b Leaves evidently petioled; blades and petals obtuse at tip; petals white. 1. *T. nivale*
- b' Leaves sessile.
- c Stigmas slender throughout, erect or spreading, more than half as long as ovary; petals obovate or oblanceolate, white, becoming pink with age, longer than sepals. 2. *T. grandiflorum*
- c' Stigmas stout, tapering, recurved, about half as long as ovary; ovary white or only tinged with color; filaments half as long as anthers or less; petals white or maroon; peduncles erect to deflexed. 3. *T. flexipes*

1. †*Trillium nivale* Riddell

Snow Trillium, Snowy Trillium, Dwarf White Trillium

Flowers peduncled; leaves petioled; leaves and petals obtuse at tip; petals white. Limestone banks along the Scioto R.

REFERENCES: Riddell 1835:525 (Type locality, on the E bank of the Scioto R., near Dublin, inhabiting a steep declivity, among comminuted fragments of limestone); Sullivant 1840:43; Selby & Craig 1890:16; Selby 1890:36 (occurs locally ... not outside the limestone banks of the Scioto and its affluent ravines; in certain places along the Scioto R. it is very abundant, especially so on either bank a short distance above Fishinger's Mill, situated four mi. from the Dodridge St. bridge, N Cols.; it blooms here very early, being in full bloom this season, 23 Mar; Miss Freda Detmers, Assistant Botanist of the Ohio Experiment Station prepared the drawing, Plate III); Braun 1967:378 (Riddell's type was collected along the Scioto R. in Franklin Co. about 1832) (illus. p. 376); Stuckey 1976:143; ODNR-DNAP 1996.

HERBARIUM RECORDS: [ca. 1834]—Cols., [I. A. Lapham] (URB); 1836—Cols., *Short Herbarium* (URB); 14 May 1885—near Cols., limestone cliffs, *Landis* (WOOS); 5 May 1888—banks of Scioto R., *Selby*; May 1889—banks of Scioto R., *Selby*; 31 Mar 1890—Scioto R., *Weed*; Apr 1890—Scioto R., S of Dublin, *Selby*; 12 Apr 1891—Wyandot Grove, *Selby* (OS, WOOS); 17 Mar 1892—Scioto R., near Cols., *E. M. Wilcox*; 27 Mar 1892—Cols., *Werner* (CLM); 27 Mar 1892—Scioto R. near Cols., *E. M. Wilcox* (BGSU, OS); 29 May 1892—Cols., *Bogue*; 1 Apr 1898—Cols., *J. H. Schaffner*, 1899—along the Scioto R., *W. Kellerman & Fullmer* (KE, OS); 9 Apr 1907—Franklin Co., *Mead*; 1 Apr 1937—limestone talus, Scioto R., S of Dublin, *C. Jones*; 1 Apr 1967—shallow rich black soil overlying broken limestone rock, approx. ¼ mi. S of Dublin, E bank of Scioto R., Perry Twp., *Stuckey 3346*; 1 Apr 1967—broken limestone rock by abandoned quarry on the E bank of the Scioto R., approx. 1 mi. S of Dublin, Perry Twp., *Stuckey 3350*; 14 & 23 Apr 1967—broken limestone rocky slope, E bank of Scioto R., approx. ¼ S of Dublin, Perry Twp., *Stuckey 3418 & 3482*; 30 Apr 1967—broken limestone rock on E bank of Scioto R., approx. ½ mi. S of Dublin, Perry Twp., *Stuckey 3553*; 19 May 1967—broken limestone rocky slope approx. ¼ mi. S of Dublin on E bank of Scioto R., *Stuckey 3775*; 8 Apr 1970—limestone quarry along Scioto R., approx. 1 mi. S of Dublin, Washington Twp., *Roberts 110*; 18 Apr 1970—E edge of Scioto R., ½ mi. S of Dublin bridge, on floodplain in dryer areas, *Boone 18*; 4 Apr 1982—steep forested slope with scattered limestone fragments, E bank of Scioto R., 0.5 mi. S of Rt. 161, Dublin, *T. Lammers 4509* (KE, OS); 10 Mar 1983—along Scioto R., *Owens*; 21 Mar 1992—½ mi. S of Dublin bridge off Rt. 33, E bank of the Scioto R., limestone outcropping, Perry Twp., *Lowden 4889*.

2. *Trillium grandiflorum* (Michx.) Salisb.

Large White Trillium

Flowers peduncled; stigmas slender, erect, more than half the length of the ovary; petals white-pink with age, longer than sepals; leaves sessile.

REFERENCES: Riddell 1834:158; Sullivant 1840:43; Craig 1890:105 (I found a single specimen in the woods this spring; Mr. W. J. Greene found one 5 May 1882, near the river; 1 May 1882, 5 May 1883, 7 May 1884, 21 Apr 1886, 17 Apr 1887, 5 May 1888, 20 Apr 1889); Selby & Craig 1890:16; Braun 1967:378 (illus. p. 379).

HERBARIUM RECORDS: [no date]—Alum Creek, *Lohr*; [26 Apr, no year]—Westerville, moist woods, *Bright*; [16 May, no year]—Westerville, Big Walnut woods, *M. E. Hall*; 1840—Cols., *Sullivant*; 14 May 1882—Olentangy R., *W. Green*; 5 May 1888—woods about Cols., *Selby*; 2 Jun 1888—Glover's Woods, Cols., *Selby*; May 1889—near Fishinger's Mill, *Selby* (OS, WOOS); ca. 1890—OSU woods, Cols., *Craig*; 1 May 1892—Scioto R., near Cols., *E. M. Wilcox*; Spring 1898—Cols., *J. H. Schaffner*; 15 May 1899—Blendon, *Helfrich*; 7 Jun 1901—Cols., *Mead*; 19 Apr 1921—Cols., *J. H. Schaffner*; May 1923—Westerville, open woods, *Schwarzkopf*; 13 May 1927—near Flint, mesophytic forest, *H. Adams*; 31 May 1927—near Westerville, rich moist woods, *Ormsby*; 26 Apr 1970—stream bottom, Whetstone Park, Clintonville, *W. Owen 092*; 8 May 1983—Blendon Woods, *Owens*; 21 Apr 1986—Highbanks Metro Park (Delaware Co.), woods, *Watts 287* (OS, OWU); 20 Apr 1992—Camp Mary Orton (Godman Guild), N of Worthington & W of Rt. 23, woods near Flint Ravine & E bank of Olentangy R., Sharon Twp., *Lowden 4919*; 16 May 1992—woods along N bank of Little Darby Creek, Day Camp Area, Battelle Darby Creek Metro Park, Pleasant Twp., *Lowden 4954*.

3. *Trillium flexipes* Raf.

Bent Trillium, Purple Trillium

Flowers peduncled; stigmas stout, recurved; leaves sessile; filaments half as long as anthers or less. Syn.: *T. erectum* var. *declinatum* A. Gray

REFERENCES: Riddell 1834:158 (dense and shady woods); Sullivant 1840:43; Craig 1890:105 (I found specimens near the middle of the woods in a damp place, 24 Apr 1889; there is much variation in color, some being a pure white and others a deep purple; 14 May 1882, 7 May 1884, 5 May 1888); Selby & Craig 1890:16; Braun 1967:381 (illus. p. 380).

HERBARIUM RECORDS: [May, no year]—Cols., *M. Williams Collection* (URB); [ca. 1834]—Cols., *Lapham* (URB); 1840—Cols., *Sullivant*; 24 May 1924—Westerville, rich moist woods, *Enverard*; 25 Apr 1925—Westerville, Big Walnut Creek, moist banks, generally wooded, *Camp*; 1 May 1992—Camp Mary Orton (Godman Guild), woods, N of Worthington & W of Rt. 23, Sharon Twp., *Lowden 4928*.

NOTE: What Riddell (1834) questioned and Sullivant (1840) and Selby & Craig (1890) considered to be *Trillium erectum* L. is here believed to be *Trillium flexipes*.

4. *Trillium sessile* L.

Wake-Robin, Sessile Trillium, Three Leaved Night-shade, Toadshade

TRILLIUM
MEDEOLA
UVULARIA
SMILACINA



Flowers and leaves sessile; sepals ascending to spreading, not reflexed; petals ascending.

REFERENCES: Riddell 1834:158 (open woods); Sullivant 1840:43; Craig 1890:105 (very abundant in the woods and along the river, 9 Apr 1882, 25 Apr 1883, 16 Apr 1884, 27 Apr 1885, 17 Apr 1886, 13 Apr 1887, 13 Apr 1889); Selby & Craig 1890:16; Braun 1967:377 (illus. p. 376).

HERBARIUM RECORDS: [no date]—Westerville, *Leiter*, 14 May 1884—OSU grove, Cols., *H. Smith* (CINC); May 1888—Cols., *Craig*; 28 May 1888—near Asylum Grounds, Cols., *Selby*; Spring 1889—Cols., *Craig*; 14 Apr 1890—Cols., *H. Richardson*; May 1891—Cols., *Werner* (CLM); 1 May 1892—Scioto R., near Cols., *E. M. Wilcox*; 7 May 1892—Georgesville, *Werner* (CLM, OS); 4 May 1895—Georgesville, *Osburn*; 20 Apr 1896—Cols., *McCall*; 29 May 1897—Alum Creek Station, Cols., *Kerr*; Spring 1898—Cols., *J. H. Schaffner*; 1 May 1899—Blendon, *Helfrich*; 3 May 1901—OSU campus, Cols., *Mead*; 4 May 1907—banks of Olentangy R. near Glenmary Park, *Will*; 7 May 1911—Westerville, *Hanawalt*; 21 Apr & Spring 1913—Cols., *L. Humphrey*; 29 May 1923—Westerville, *Gressman*; 6 May 1924—Westerville, rich woods on Alum Creek, *T. Nichols*; [ca. 1927]—Big Walnut, *Whitehead*; May 1927—Alum Creek bank, rich woods, *Badgeley*; 18 May 1933—Cols., *Dambach*; 7 May 1937—Franklin Co., *C. Jones*; 14 Apr 1967—broken limestone rocky slope, E bank of Scioto R., approx. ¼ mi. S of Dublin, Perry Twp., *Stuckey 3421*; 8 Apr 1970—in flooded area at edge of limestone quarry along Scioto R., approx. 1 mi. S of Dublin, *Roberts 111*; 19 Apr 1970—Scioto R., ½ mi. S of Dublin, E side along River Rd. in floodplain and on hillside, *Roberts 141*; 23 Apr 1982—Blendon Woods, woods along Ripple Rock & Brookside trails, *Owens*; 25 Apr 1982—Kenny Rd., W end of Waterman farm complex, woods, *Wilson 14*; 29 Apr 1984—on Glick Rd., 0.7 mi. W of Rt. 745, in damp meadows, *Valdebenito 4*; 5 Apr 1986—Highbanks Metro Park (Delaware Co.), mound bottom & forest near Olentangy R., *Witsberger 877* (OS, OWU); 19 Apr 1986—woodland, 1.5 mi. W of jct. of Rt. 33 & Glick Rd., 0.2 mi. N of Glick Rd., *Yang 106*; 2 May 1987—Battelle-Darby Creek Metro Park, along Big Darby Creek, 3 mi. S of Rt. 40, mesic deciduous forest on upland slopes, *T. Lammers 6092*; 16 Apr 1988—3 mi. N of Rt. 161 & Rt. 33, flood plain of stream, *Kelly 4*; 13 Apr 1992—Camp Mary Orton (Godman Guild), N of Worthington & W of Rt. 23, woods near Olentangy R. just W of caretaker's house, Sharon Twp., *Lowden 4902*.

16. MEDEOLA L. Indian Cucumber-root

Rhizome short; leaves ovate to oblanceolate, in 2 whorls, the upper usually of 3, the lower of 5-9; perianth greenish-yellow, the segments separate, about 8 mm long, recurved; styles 3, recurved; berry dark-purple.

1. *Medeola virginiana* L.

Indian Cucumber-root, Indian Cucumber

Leaves in 2 whorls, upper of 3, lower of 7; perianth green-yellow, recurved; styles 3, recurved; berry purple-black.

REFERENCES: Riddell 1834:158 (dense and shady woods); Braun 1967:375 (illus. p. 376).

HERBARIUM RECORD: Jun 1888—Cols., *Craig*.

NOTE: Sullivant 1840:43 and Selby & Craig 1890:16 reported on plants collected in adjacent counties.

17. UVULARIA L. Bellwort

With rhizomes; stem scaly below, leafy above; leaves oval, oblong, or lanceolate; flowers nodding, solitary or rarely in 2's, terminal, later appearing lateral as result of prolongation of branches; perianth segments separate, greenish-yellow, 3-4 cm long; styles separate or united to middle; fruit a capsule.

a Leaves not perfoliate. 1. *U. sessilifolia*

a' Leaves perfoliate, usually pubescent beneath, 1-2 below fork of stem; perianth smooth on inner surface.

2. *U. grandiflora*

1. *Uvularia sessilifolia* L.

Merry-bells, Sessile-leaved Bellwort

REFERENCE: Riddell 1834:158.

NOTE: No specimens seen from Franklin Co. Not mapped for Franklin Co. by Braun 1967:346 (illus. p. 344).

2. *Uvularia grandiflora* Sm.

Bellwort, Large-flowered Bellwort

Leaves perfoliate; leaves pubescent beneath.

REFERENCES: Riddell 1834:158; Sullivant 1840:44; Selby & Craig 1890:16; Braun 1967:346 (illus. p. 344).

HERBARIUM RECORDS: 1840—Cols., *Sullivant*; 1 May 1882—Cols., *W. Green*; 8 Jun 1882—Central Insane Asylum, Cols., *Devol*; May 1888—Cols., *Craig*; 2 Jun 1888—banks of Scioto R., *Selby*; Spring 1889—Cols., *Craig*; May 1889—Asylum Grounds, Cols., *Selby*; May 1890—Cols., *Selby*; 29 Apr 1892—Cols., *Werner* (CLM); 25 May 1893—Georgesville, *Kerr*; 29 Apr 1961—Flint Ravine, N of Worthington, *Cusick*; 20 Apr 1970—damp woods, at SE corner of I-71 & Rt. 161, *Boone 94*; 30 Apr 1983—Blendon Woods, *Owens*; 13 May 1989—steep mesic wooded slope on W side of Big Darby Creek, ¼ mi. S of Rt. 665, Pleasant Twp., Harrisburg Quad., *McCormac 564*; 20 Apr 1991—SE corner of jct. Rt. 665 & Graessle Rd., mesic wooded slopes, Pleasant Twp., Harrisburg Quad., *McCormac 3467*.

NOTE: Selby & Craig 1890:16 also cited *Uvularia perfoliata* L. based on what is believed to be misidentified specimens of *Uvularia grandiflora*.

18. SMILACINA Desf. False Solomon's-seal

Rhizome long; stem scaly below, leafy above; leaves oblong to lanceolate, sessile or nearly so, 2-ranked; flowers small, white or greenish; perianth segments separate; style short; berry eventually red, 1-2-seeded.

- a Inflorescence a many-flowered panicle. 1. *S. racemosa*
a' Inflorescence a few-flowered raceme; leaves many. 2. *S. stellata*

1. *Smilacina racemosa* (L.) Desf. Solomon's Plume, False Solomon's Seal, False Spikenard

Inflorescence many-flowered panicle. Syn.: *S. racemosa* Desf.

REFERENCES: Riddell 1834:158 (*Convallaria racemosa*); Sullivant 1840:44; Craig 1890:104 (along the river bank and N of the island spring, 30 May 1882, 13 May 1883, 10 May 1884, 26 May 1885, 13 May 1887); Selby & Craig 1890:16; Braun 1967:365 (illus. p. 366).

HERBARIUM RECORDS: 1840—Cols., Sullivant; Jun 1888 & Spring 1889—Cols., Craig; 21 May 1892—near Cols., E. M. Wilcox; 24 Aug 1892—Alum Creek Station, Bogue; 14 May 1899—Blendon, Helfrich; 19 May 1906—Hayden's Falls, Hurst; 15 Aug 1911—Westerville, low woods, Hanawalt; May 1921—Westerville, wooded hillside, Kittle; 5 May 1922—3 mi. E of Westerville, wooded slope, Big Walnut bluffs, Camp; 24 May 1922—Westerville, Crow's Nest, Alum Creek, Camp; 24 May 1922—Westerville, wooded banks, M. Noel; 26 May 1922—Westerville, moist bank, Cummings; 23 May 1923—Westerville, moist thickets, Walker; 4 Jun 1923—Westerville, bank of stream, Gressman; 19 May 1924—Westerville, moist thickets, Enverard; 20 May 1927—Alum Creek, moist thickets, H. Adams; 31 May 1927—near Westerville, moist thickets, Ormsby; 1 Jun 1935—Worthington, Grover; 5 May 1970—University woodlot at corner of Kenny & Ackerman, damp woods, Boone 112; 12 May 1977—woody area W of OSU West Campus, Watson 25; 19 May 1982—NW bank & understory of Olentangy R., 600 m N of Dodridge overpass, Eckard 41; 19 May 1982—Blendon Woods, Owens; 25 Apr 1986—1 blk. E & 4 blks. N of Worthington High School Environmental Bldg. off of Rt. 161, Benkowski; 17 May 1986—woodland, 1 mi. NW of jct. of Kenny Rd. & W. Lane Ave., Yang 161; 20 May 1987—Highbanks Metro Park (Delaware Co.), Higgins; 23 May 1989—Overbrook Drive Ravine, E of N. High St., Clinton Twp., Lowden 4072.

2. *Smilacina stellata* (L.) Desf. False Solomon's Seal, Starry False Solomon's Seal

Inflorescence a few-flowered raceme; leaves many. Syn.: *S. stellata* Desf.

REFERENCES: Riddell 1834:158 (*Convallaria stellata*); Sullivant 1840:44; Selby & Craig 1890:16; Kellerman & Werner 1893:230 (near the edge of the black mucky soil back of the north dormitory, May 1891); Braun 1967:365 (illus. p. 366).

HERBARIUM RECORDS: 1840—Cols., Sullivant; 9 May 1891—Franklin Co., Selby (OS, WOOS); 15 May 1891—Franklin Co., Selby; 1925—moist swampy lowland, head of Sleepy Hollow, Westerville, Camp.

19. MAIANTHEMUM Wigg. False Lily of the Valley

Stem short; leaves ovate, usually a single cordate leaf accompanying the 2-leaved flowering stem; flowers fragrant, in a raceme; perianth-parts 4, white, separate, about 2 mm long; stamens 4; ovary 2-loculed; berry pale red, 1-2-seeded.

1. *Maianthemum canadense* Desf. False Lily of the Valley

Stems short; flowering stem with 2 leaves, ovate, cordate at base; flowers in racemes, small, white, fragrant; perianth parts 4; stamens 4; berry pale red.

REFERENCES: Riddell 1834:158 (*Convallaria bifolia*, rocky situations); Riddell 1835:92 (*Convallaria bifolia* L., Worthington, rocky situations, dense & shady woods); Sullivant 1840:44 (*Styrandra bifolia* Raf); Selby & Craig 1890:16.

HERBARIUM RECORDS: 31 May 1927—near Westerville, woods, Ormsby; 11 May 1987—Highbanks Metro Park, first shale bluff N of power lines (Franklin/Delaware Co. line), Watts.

NOTE: Not mapped for Franklin Co. by Braun 1967:367 (illus. p. 364).

20. CONVALLARIA L. Lily of the Valley

With rhizome; leaves elliptic, basal; flowers bell-shaped, fragrant, in 1-sided racemes, bracted; perianth white, less than 1 cm long, parts united, lobes short and recurved; filaments short; style short; stigma almost unlobed; fruit a red berry.

1. **Convallaria majalis* L. Lily of the Valley

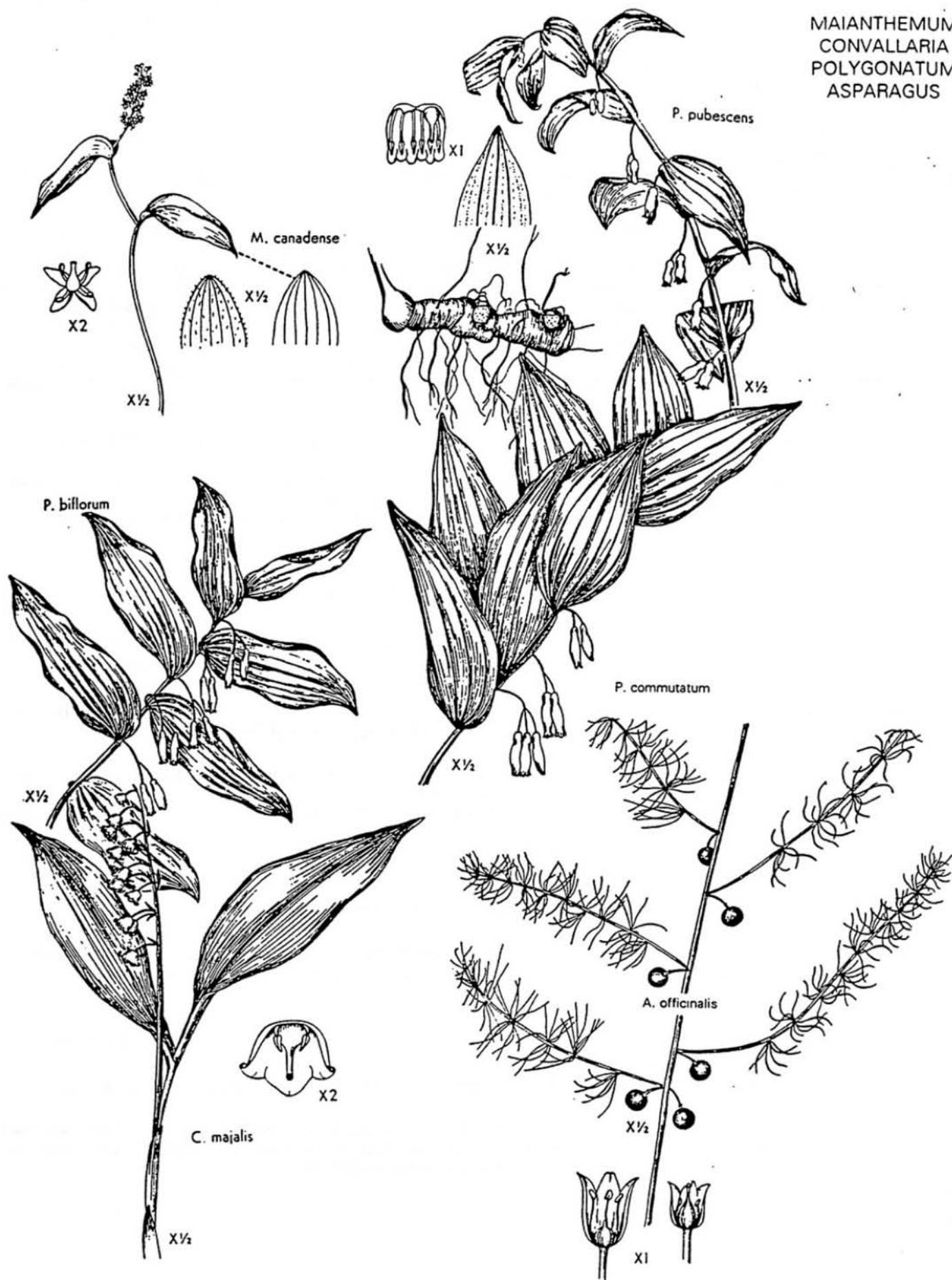
Cultivated (widespread in N Eurasia)

Plants with deep rhizomes; leaves elliptic, appearing basal. flowers white, bell-shaped, fragrant, along one side of raceme; berry red.

HERBARIUM RECORDS: [no date]—Westerville, Yaus; 5 May 1892—Cols., W. McCormick; May 1899—Cols. Helfrich; Apr 1911—Westerville, Hanawalt; 24 May 1922—Westerville, M. Noel; 21 May 1924—Westerville, Nafzger; 27 Apr 1927—Westerville, Kelchner; 7 Jun 1927—Westerville, Whitehead; 8 May 1989—Overbrook Drive Ravine, E of N. High St., Clinton Twp., Lowden 4038.

NOTE: Not treated by Braun 1967:336.

MAIANthemum
CONVALLARIA
POLYGONATUM
ASPARAGUS



21. POLYGONATUM Mill. Solomon's Seal

Stem unbranched, scaly below, leafy above, from a rhizome; leaves oval to narrowly elliptic; flowers drooping, pedicels jointed; perianth cylindric, 6-lobed, greenish; stamens inserted on perianth tube; style slender; fruit a dark-blue berry, 3-6-seeded.

Voss (1972) stated, "*Polygonatum biflorum* was once erroneously applied to what now is called *Polygonatum pubescens*." He also proposed the question, "Are *Polygonatum biflorum* and *Polygonatum commutatum* distinct?" Braun 1967:373 (illus. p. 372) does not map *Polygonatum biflorum* (Walter) Elliott for Franklin Co. I have not seen good examples of it from Franklin Co.; however, the specimen from Blendon Woods (21 May 1982—not common, Owens) comes closest to *Polygonatum biflorum*.

- a Leaves minutely hairy on veins beneath; peduncles usually 1-2-flowered. 1. *P. pubescens*
- a' Leaves glabrous beneath.
 - b Stem stout; leaves not flat, margin somewhat ruffled; flowers in groups of 2-5 or more, peduncles flattened. 2. *P. commutatum*
 - b' Stem slender; leaves flat; flowers in groups of 1-3, peduncles terete or nearly so. *P. biflorum*

1. *Polygonatum pubescens* (Willd.) Pursh Hairy Solomon's-seal

Leaves pubescent on veins beneath; peduncle 1-2 flowered. Syn.: *P. biflorum*, in part, of older manuals, *P. biflorum* Elliott, *P. biflorum* (Walter) Elliott, misapplied

REFERENCES: Sullivant 1840:44; Craig 1890:104 (sparingly along the river S of the brook, 12 May 1882, 15 May 1883, 10 May 1884, 19 May 1885, 30 Apr 1888); Selby & Craig 1890:16; Braun 1967:373 (illus. p. 372).

HERBARIUM RECORDS: 19 Jul 1882—Hayden's Falls, *Devol*; 8 May 1883—Cols., *Devol*; May 1890—Cols., *Selby* (OS, WOOS); 21 May 1892—near Cols., *E. M. Wilcox*; 2 May 1909—banks of Scioto R., *Mayferth*; 26 May 1924—Westerville, Round Stone Hollow, woodland, *C. Owen*; 4 Jul 1972—Alton-Darby Creek Rd. & Cole Rd. woodlot, *D. Keil* 9334; 10 May 1987—Highbanks Metro Park, wooded ravine, *Higgins*; 13 May 1989—mesic wooded slope on W side of Big Darby Creek, ¼ mi. S of Rt. 665, Pleasant Twp., Harrisburg Quad., *McCormac* 561.

2. *Polygonatum commutatum* (Schult.f.) A. Dietr. Large Solomon's-seal

Leaves glabrous on both sides, stems stout, leafy portion longer than the lower leafless portion; peduncles somewhat flattened, 2-4 flowered. Syn.: *P. biflorum* (Walter) Elliott var. *commutatum* (Schult.f.) Morong, *P. canaliculatum*, misapplied, *P. giganteum* Dietr.

REFERENCES: Riddell 1834:158 (*Convallaria multiflora*); Sullivant 1840:44 (*Polygonatum multiflorum* Desf.); Craig 1890:104 (rare, in the woods NE of the island and on the bank to the E); Selby & Craig 1890:16; Braun 1967:374 (illus. p. 372).

HERBARIUM RECORDS: [no date]—Alum Creek, *Lohr*; [no date]—Westerville, wooded hillside, *Kittle*; 24 May 1882—Olentangy R., *W. Green*; 19 May 1896—W Cols., *M. Wright*; 14 May 1899—Blendon, *Helfrich*; 5 Jun 1922—[Otterbein] Campus (Ath. Field), *P. Davidson*; 11 May 1986—woodland, next to the School for the Blind on Morse Rd., *Yang* 138; 21 May 1986—Cols., Park of Roses, *Blanco*; 5 Jun 1987—Tuttle Park, E bank of the Olentangy R., between Lane Ave. & Dodridge St. bridges, mesic woods on floodplain, Cols. (corolla greenish yellow), *T. Lammers* 6114; 28 May 1988—woody bank of Olentangy R., ¼ mi. from Bethel Rd. & Rt. 315, Cols., *Kelly* 38.

22. ASPARAGUS L. Asparagus

Stem at first fleshy and scaly, later tall and much branched; leaves minute, with filiform branchlets in their axils; flowers bisporangiate or monosporangiate, solitary or in 2's, pedicels jointed; perianth greenish-white, campanulate, 5 mm long or less; style short; berry red.

1. **Asparagus officinalis* L. Asparagus, Garden Asparagus

Cultivated Escape (native of Europe)

Plants much branched; leaves reduced to scales, with filiform modified stems in their axils; flowers greenish-white, solitary or in pairs, pedicels jointed; berry red.

REFERENCE: Craig 1890:104 (escaped from cultivation and is now growing on the hillside E of Neil Ave. and near the lake, 26 May 1884).

HERBARIUM RECORDS: 11 Jul 1891—Canal Winchester, *Selby* (OS, WOOS); 11 Jul 1892—Cols., *Bogue*; 24 May 1903—Franklin Co., *Lazenby*; [ca. 1920s]—Westerville, *Whitehead*; 10 Apr 1937—OSU greenhouse, Cols., cult., *J. H. Schaffner*; 3 Oct 1965—W bank of Olentangy R., ½ mi. S of Henderson Rd. on Rt. 315, *Anderson* (KE).

NOTE: Not mentioned for Franklin Co. by Braun 1967:363 (escaped from gardens, often established along roadsides and in waste places) (illus. p. 361).

HYPOXIS
NARCISSUS
YUCCA
SMILAX



23. **HYPOXIS** L. Star-grass

Somewhat hairy; leaves linear; flowers few, in an umbel; perianth segments yellow, about 1 cm long; fruit indehiscent; seeds several, black, muricate.

1. *Hypoxis hirsuta* (L.) Coville

Yellow Stargrass, Common Star-grass

Plants hairy; leaves linear; flowers yellow, few in umbel. Syn.: ? *H. erecta* L.

REFERENCES: Riddell 1834:158 (rocky situations); Sullivant 1840:41 (Star of Bethlehem); Selby & Craig 1890:16; Braun 1967:395 (illus. p. 394).
HERBARIUM RECORDS: [15 May, no year]—Franklin Co., dry woods, meadow, *Tryon*; May 1890—Franklin Co., *Frank*; 28 May 1892—Central College, *Mrs. W. Kellerman*; 28 May 1892—Central College, Cols., *Selby*; 22 Jul 1897—Cols., *Osburn*; 5 May 1922—3 mi. E of Westerville, Big Walnut bluffs, dry upland, *Camp*; 26 May [ca. 1924]—Westerville, dry woods, *Hummell*; 23 May 1986—Highbanks Metro Park (Delaware Co.), dry bluff tops, *Watts 307* (OS, OWU); 14 May 1992—Cedar Ridge, Battelle Darby Creek Metro Park, Pleasant Twp., *Lowden 4934*.

NOTE: All references except Braun cite as *Hypoxis erecta* L.

24. **GALANTHUS** L. Snowdrop

Leaves basal, linear; flowers epigynous, solitary; perianth white, of 6 segments, outer ones longer, inner ones shorter with green sinuses.

1. **Galanthus nivalis* L.

Common Snowdrop

Adventive (native of C & S Europe)

Scapes about 15 cm high; leaves basal, linear, about 6 mm wide; flowers solitary, declined or nodding on a slender pedicel; outer perianth segments white, longer, veiny, tips nearly obtuse; inner segments about half as long, emarginate, white with green sinuses.

HERBARIUM RECORD: 4 Apr 1965—confluence of Flint Ravine & Olentangy R., several clumps on floodplain, W of Rt. 23 & N of Worthington, Sharon Twp., *Cusick* (KE).

NOTE: Not mentioned for Franklin Co. by Braun 1967:393. Reference: Bailey, *Manual of Cultivated Plants*, p. 250.

25. **NARCISSUS** L. Narcissus, Daffodil, Jonquil

Leaves linear, flat or terete; flower or small flower cluster subtended by a thin spathe; corona variable in shape, size, and color; fruit a capsule.

This genus is often planted in gardens for its showy ornamental flowers, incl. Daffodil (crown often as long as perianth), Jonquil (crown of medium length with leaves narrow & rushlike), and Narcissus (crown short).

a Corona 3-5 cm long; perianth usually yellow. 1. *N. pseudonarcissus*

a' Corona 1 cm long or less; perianth usually white. 2. *N. poeticus*

1. **Narcissus pseudonarcissus* L.

Daffodil

Cultivated Escape (native of Europe)

Leaves linear; corona tall; perianth usually yellow. Common cultivar in gardens.

HERBARIUM RECORDS: 2 May 1911—Westerville, *Hanawalt*; 9 Apr 1992—Overbrook Drive Ravine, woody creek bank just E of N. High St., Clinton Twp., *Lowden 4897*.

NOTE: Not mentioned for Franklin Co. by Braun 1967:393 (sometimes seen on roadsides or about old house-sites).

2. **Narcissus poeticus* L.

Poet's Narcissus

Cultivated (native of Europe)

Leaves linear; corona short, edge red; perianth usually white. Common cultivar in gardens.

HERBARIUM RECORDS: 23 May 1911—Westerville, *Hanawalt*; 10 Apr 1930—Cols., cult., *Hicks*.

NOTE: Not mentioned for Franklin Co. by Braun 1967:393 (sometimes seen on roadsides or about old house-sites).

AGAVACEAE, Agave Family