

Big Darby Creek between I-70 & Little Darby Creek, DeLong; 18 Sep 1989—Highbanks Metro Park (Delaware Co.), along Olentangy R., 3/4 mi. S of Powell Rd., Watts 504 (OWU); 10 Sep 1991—E bank of Big Darby Creek, just off Rt. 40, Prairie Twp., Lowden 4815.

6. Lobelia cardinalis L. Cardinal-flower

Stem erect, tall; leaves lanceolate to elliptic-lanceolate; flowers more than 3 cm long, showy; corolla zygomorphic, bright red (rarely white). Incl. L. cardinalis L. forma alba (Eaton) St.John

REFERENCES: Riddell 1834:154 (dense and shady woods, marshes); Sullivant 1840:28; Selby & Craig 1890:12; Cooperrider 1995:579 (illus. p. 577). HERBARIUM RECORDS: 1840—Cols., Sullivant; Aug 1890—Taylor's Woods, Selby; 8 Aug 1890—Headley's Woods, Cols., Selby (OS, WOOS); Aug 1896—Georgesville, W. & Mrs. Kellerman; 7 Sep 1899—Worthington, Selby.

NOTE: The white flowered form is based on Selby's specimen collected at Taylor's Woods.

RUBIACEAE, Madder Family

Herbs and shrubs; leaves entire, opposite or whorled and bases connected by stipules, or whorled without apparent stipules; flowers epigynous, bisporangiate; calyx minute or none or of usually 4 sepals; corolla rotate, funnelform, or salverform, regular, lobes usually 4; stamens as many as corolla lobes, inserted on corolla tube; carpels 2 (or 4), united; locules as many; ovules 1-several in each locule; style 1 or sometimes cleft; stigmas 2 or rarely 1 or 4; fruit separating into 1-seeded indehiscent carpels, or sometimes a berry or a capsule.

- a Upright shrubs or small trees; flowers in spherical heads; leaves opposite or in whorls of 3. 3. CEPHALANTHUS
- a' Herbs, upright to prostrate.
 - b Prostrate evergreen with small round-ovate petioled opposite leaves; flowers in pairs, ovaries united; stigmas 4; fruit a berry. 2. MITCHELLA
 - b' More or less upright, not evergreen; ovaries single; stigmas 1 or 2.
 - c Leaves apparently whorled; small cymose flowers terminating the branches or axillary; sepals minute or absent; corolla rotate, tube very short; ovary inferior. 4. GALIUM
 - c' Leaves opposite; flowers terminal and solitary or in terminal cymose clusters; sepals lance-linear to ovate; corolla salverform or funnelform; ovary half inferior. 1. HEDYOTIS

1. HEDYOTIS L.

Small herbs, usually tufted; leaves opposite, bases connected by stipules; flowers small, partly epigynous, often dimorphic or trimorphic as to relative length of stamens and style, solitary or in terminal cymes; sepals 4, erect; corolla 4-lobed, blue, purple, or white; capsule 2-loculed, dehiscent across the top, few- to several-seeded. (Houstonia L.)

- a Peduncles 1-flowered, filiform; corolla salverform, pale blue or violet-blue with yellow eye; fruit wider than long; stem-leaves few. 4. H. caerulea
- a' Flowers in cymes; corolla funnelform.
 - b Leaves 3-5 nerved, rounded to subcordate at base. 2. H. purpurea
 - b' Leaves 1-nerved.
 - c Basal leaves many at anthesis, ciliate; stipules rounded at summit, not fringed or toothed. 1. H. canadensis
 - c' Basal leaves not present at anthesis or not ciliate; stipules often fringed or toothed. 3. H. longifolia

1. Hedyotis canadensis (Willd.) Fosberg

Canadian Bluets

Stems glabrous or sometimes with a few diverging hairs; basal leaves present at anthesis, ciliate; cauline leaves linear to lanceolate; blades less than 1 cm wide, with one main vein; flower and fruiting pedicels longer than 2 mm; corolla whitish to purple. Syn.: Houstonia canadensis Willd.

REFERENCES: Riddell 1834:156 (Houstonia ciliolata, rocky situations); Riddell 1835:68 (Houstonia ciliolata Torr., Worthington, rocky situations & slaty ravines); Selby & Craig 1890:10 (Houstonia purpurea L. var. ciliolata A.Gray); Cooperrider 1995:535 (illus. p. 534).

HERBARIUM RECORDS: May 1889—E of Alum Creek, Gould; 17 May 1890—Central College, Cols., Selby (OS, WOOS); 9 May 1891—Big Darby, Selby; Jul 1891—Cols., Selby; 7 May 1892—Georgesville, Detmers; 7 May 1892—Franklin Co., Werner, 7 May 1892—Georgesville, Werner, 14 May 1892—Georgesville, E. M. Wilcox; 17 May 1892—Georgesville, E. M. Wilcox; 4 May 1895—Georgesville, Osburn; 22 May 1899—Big Darby, Selby; 15 May 1901—Worthington, Mead; 15 May 1920—Flint Creek, N of Cols., open woods and fields, Braun; 26 May 1924—Westerville, M. Long; 18 Aug 1929—Big Darby, S of National Rd., Gordon & Chapman; 10 May 1970—Camp Johnson, 8 mi. N of OSU on N. High, Boone 134; 2 Jun 1980—Central College Rd., N side ½ mi. E of Sunbury Rd., Blendon Twp., NE ¼ NE Cols. Quad., W. Carr 2869 (KE); 24 Jun 1982—Highbanks Metro Park (Franklin & Delaware Cos.), blufftop, G. Moore 286; 18 May 1983—Battelle-Darby, Owens; 23 May 1986—Highbanks Metro Park

(Delaware Co.), dry blufftops, Watts 309 (OWU); 9 May 1988—Highbanks Metro Park (Delaware Co.), blufftops at overlook observation deck, Watts 423; 23 May 1990—Central College Rd., ½ mi. E of Big Walnut Creek, in front of Hoover Dam Park, hilly woody area, Blendon Twp., Lowden 4336; 23 May 1990—entrance way to Hoover Dam Park off Cubbage Rd., Blendon Twp., Lowden 4341; 1 Aug 1990—E side of Hoover Dam Park, woods just W of Cubbage Rd. & S of Walnut St., Blendon Twp., Lowden 4491; 14 May 1992—Cedar Ridge, Battelle-Darby Creek Metro Park, Pleasant Twp., Lowden 4940.

2. †Hedyotis purpurea (L.) Torr. & A.Gray

Large Summer Bluets

Stems with few to many diverging hairs; leaves lanceolate to ovate, blades 0.7-1.0 cm wide, with 3-5 main veins, rounded at base; flower and fruiting pedicels longer than 2 mm; corolla purplish-white. Syn.: †Houstonia purpurea

HERBARIUM RECORD: 1840-Cols., Sullivant.

NOTE: Sullivant 1840:29 (Hedyotis purpurea Hook.) and Selby & Craig 1890:10 reported on plants collected in adjacent counties. Not mapped for Franklin Co. by Cooperrider 1995:533 (illus. p. 534).

3. Hedyotis longifolia (Gaertn.) Hook.

Long-leaved Summer Bluets

Stems spiculose; basal leaves absent at anthesis; cauline leaves linear to lanceolate; blades less than 1 cm wide, with one main vein; flower and fruiting pedicels longer than 2 mm; corolla purplish-white. Syn.: Houstonia longifolia Gaertn. var. compacta Terrell, Houstonia purpurea var. longifolia (Gaertn.) A.Gray

REFERENCES: Riddell 1834:156 (rocky situations); Cooperrider 1995:533 (illus. p. 534).

HERBARIUM RECORDS: 1840-Cols., Sullivant; 14 May 1892-Georgesville, E. M. Wilcox.

NOTE: Sullivant 1840:29 (Hedyotis longifolia Hook.) and Selby & Craig 1890:10 (Houstonia purpurea L. var. longifolia A.Gray) reported on plants collected in adjacent counties.

4. Hedyotis caerulea (L.) Hook.

Bluets

Stems in clusters; leaves mostly in basal tufts, spatulate, obovate or oblanceolate, upper ones linear and opposite; flowers solitary on long peduncles; corolla pale blue to purple with yellow center. Syn.: *Houstonia caerulea* L. REFERENCES: Riddell 1834:156 (rocky situations); Cooperrider 1995:533 (illus. p. 534).

HERBARIUM RECORDS: 189_—Cols., Selby; May 1890—Central College, Selby; May 1891—Central College, near Cols., Selby (OS, WOOS); 14 May 1892—Georgesville, E. M. Wilcox; 17 May 1892—Georgesville, E. M. Wilcox; 3 May 1911—Westerville, grassy fields, Hanawalt; 5 May 1922—3 mi. E of Westerville, Big Walnut bluffs, Camp; 13 May 1923—Westerville, dry open soil, Steele; 25 Apr 1970—SE area of Hoover Reservoir, frequent on dry open hillsides, Boone 39; 30 Apr 1990—Highbanks Metro Park (Delaware Co.), SE of ranger station, bare ground, Watts 513 (OS, OWU); 23 May 1990—Central College Rd., ½ mi. E of Big Walnut Creek, hilly woody area, in front of Hoover Dam Park, Blendon Twp., Lowden 4337; 23 May 1990—along entrance way to Hoover Dam Park, off Cubbage Rd., Blendon Twp., Lowden 4340; 18 Apr 1991—woods just W of Cubbage Rd. in Hoover Dam Park, Blendon Twp., Lowden 4586.

NOTE: Sullivant 1840:29 and Selby & Craig 1890:10 reported on plants collected in adjacent counties.

2. MITCHELLA L.

Small evergreen herb with prostrate stem; leaves round-ovate, opposite, short-petioled, entire, stipules minute; flowers usually terminal, fragrant, each peduncle bearing 2 flowers with ovaries united, dimorphic as to relative length of stamens and styles; corolla white or pink, funnelform, lobes pubescent on upper side; each ovary of 4 carpels, stigmas, and locules, 1 style; fruit an 8-seeded scarlet berry.

1. Mitchella repens L.

Partridge Berry

Herbaceous, trailing; leaves opposite, evergreen, orbicular to somewhat ovate; flowers in pairs at tip of a single peduncle; corolla white, tinged with red; ovaries of pair flowers forming a single red berry.

REFERENCES: Riddell 1834:156 (rocky situations); Selby & Craig 1890:10.

HERBARIUM RECORDS: 30 May [ca. 1920s]—Taylor's Woods, rocks & dry hill tops, Kahler; May 1921—hill-land at Rocky Fork, Westerville, dry woods, J. Wilson; 10 May 1982—Highbanks Metro Park (Franklin & Delaware Cos.), ravine slope, G. Moore 287; 12 Jun 1993—Flint Ravine bluff, Camp Mary Orton, W of Rt. 23, N of Worthington, Sharon Twp., Lowden 5078.

NOTE: Not mapped for Franklin Co. by Braun 1961:318 (illus. p. 316) or Cooperrider 1995:531 (illus. p. 530).

3. CEPHALANTHUS L.

Shrub or small tree; leaves opposite or in whorls of 3, petioled, ovate- or lance-oblong, entire, tapering at tip and base, stipules connecting the bases; flowers small, in spherical peduncled clusters terminal or from upper axils; corolla white, funnelform, 4-lobed; style filiform, long-exsert; fruit obconic, angled, splitting into indehiscent carpels.



1. Cephalanthus occidentalis L.

Buttonbush

Woody shrub; leaves opposite or in whorls of 3, petiolate; blades ovate to elliptic; flowers in dense globose pedunculate heads; corolla cream-white; styles long-exserted.

REFERENCES: Riddell 1834:156 (wet prairies); Sullivant 1840:28; Selby & Craig 1890:10; Kellerman & Werner 1893:229 (E margin of lagoon,

Aug 1890); Braun 1961:318 (illus. p. 316); Tyrrell 1987a:29; Tyrrell 1987b:15; Cooperrider 1995:531 (illus. p. 527).

HERBARIUM RECORDS: 10 Aug 1882—swamp SW of Cols., W. Green; 7 Aug 1890—Rocky Fork R., Selby; 11 Sep 1971—W of OSU campus along banks of Olentangy R. near Tower Dorms and Battelle, uncommon, Cols., Roberts 2051; 3 Aug 1990—Hoover Dam Park, in cove along E bank of reservoir N of W entrance off Cubbage Rd., Blendon Twp., Lowden 4501; 9 Aug 1990—S side of Berger Rd., 1 mi. E of Richardson Rd., Madison Twp., Lowden 4554; 10 Jun 1991—Boyer Park at end of Park St., E of Rt. 3, Westerville, Blendon Twp., Lowden 4680; 23 Jun 1991—E bank of Scioto R., S of Lane Rd., Perry Twp., Lowden 4725.

4. GALIUM L. Bedstraw

Herbs with 4-angled stems; leaves whorled; flowers small, in axillary or terminal small or diffuse cymes, these sometimes in panicles; calyx minute or none; petals 4 or 3, slightly united at base; carpels indehiscent in fruit, subglobose, smooth or bristly.

- a Leaves with 3-5 longitudinal nerves, at least at base (lateral pair may be obscure), in whorls of 4; fruit usually bristly or pubescent.
 - b Corolla white; leaves linear or linear-lanceolate; flowers in compact many-flowered panicle; fruit hairy or glabrous. 1. G. boreale
 - b' Corolla greenish-white, yellowish, or purple; leaves oval, elliptic, or lanceolate; inflorescence few-flowered or loosely flowered.
 - c Corolla-lobes acute, usually hairy on lower side; leaves obtuse, elliptic, hairy on nerves beneath.
 8. G. circaezans
- c' Corolla-lobes acuminate, glabrous, often purple with age; upper leaves lanceolate, acute. 9. G. lanceolatum a' Leaves with 1 longitudinal nerve, in whorls usually of 5-8, but sometimes of 4; corolla white; fruit smooth or bristly; plants often leaning on other plants.
 - d Fruit bristly; leaves with cuspidate tips.
 - e Stem retrorsely hispid on angles; leaves linear-oblanceolate, in whorls of 6-8, marginal cilia reflexed or divergent; annual. 11. G. aparine
 - e' Stem glabrous or sparingly hispid; leaves elliptic, in whorls of 6 on main stem, marginal cilia ascending; perennial; fragrant in drying. 10. G. triflorum
 - d' Fruit smooth or granular, not bristly.
 - f Leaves with acute or cuspidate tips, in whorls of 6 or more on main stem; corolla mostly 4-lobed.
 - g Leaf- and stem-margins and lower surface of midveins retrorse-scabrous; leaves narrowly oblanceolate; flowers in short cymes. 3. G. asprellum
 - g' Leaf-margins, if scabrous, not retrorse-scabrous; stem smooth, pubescent, or sparsely retrorsescabrous; panicle diffuse.
 - h Leaves mostly in whorls of 8 on main stem, of 6 on branches; stem glabrous to finely pubescent; roadsides and fields. 2. G. mollugo
 - h' Leaves in whorls of 6 on main stem, of 4 on branches; stem minutely retrorsely scabrous; plants shining; woods. 4. G. concinnum
 - f' Leaves with blunt tips; corolla 3- or 4-lobed.
 - i Corolla lobes mostly 3, obtuse; young internodes of stem retrorsely scabrous, stems much branched and matted; leaves usually scabrous on margins and midvein beneath.
 - j Leaves of main axis in whorls of 4-6, oblanceolate or narrowly elliptic; peduncles 1-, 2-, or 3-flowered (often 3-), peduncles and pedicels smooth and straight. 7. G. tinctorium
 - j' Leaves of main axis in whorls of 4, linear or linear-spatulate; peduncles mostly 1-flowered (or 3-), peduncles and pedicels slender, arcuate, and often scabrous. 6. G. trifidum
 - i' Corolla lobes mostly 4, acute; leaves of main axis in whorls of 4 or 5 (mostly 4); stem mostly glabrous, nodes pubescent; leaves elliptic-oblong or lanceolate, margin ciliate with fine spreading hairs; fruit about 3 mm wide. 5. G. obtusum
- 1. Galium boreale L.

REFERENCES: Sullivant 1840:29; Selby & Craig 1890:10.

NOTE: No specimens seen from Franklin Co. Not mapped for Franklin Co. by Cooperrider 1995:522 (illus. p. 523).

2. *Galium mollugo L.

White Bedstraw

Naturalized (Eurasian)

Leaves acute, in whorls of 8 on main stem, of 6 on branches; panicles diffuse.

REFERENCE: Cooperrider 1995:522 (illus. p. 523).

HERBARIUM RECORDS: 11 Jun 1964—Rt. 3 roadside, 1½ mi. N of Rt. 161, Blendon Twp., E. Herrick (KE, OS); 23 Aug 1982—Blendon Woods, Owens.

3. Galium asprellum Michx.

Rough Bedstraw

REFERENCES: Riddell 1834:156 (wet prairies; & Galium micranthum, open woods); Sullivant 1840:29; Craig 1890:82 (common in woods, 9 Aug 1882, 12 Jun 1887); Selby & Craig 1890:10.

NOTE: No specimens seen from Franklin Co. Maybe there has been some confusion in the earlier literature of this species with Galium concinnum (Lapham's specimen of this species was originally labeled G. asprellum). Not mapped for Franklin Co. by Cooperrider 1995:528 (illus. p. 527).

4. Galium concinnum Torr. & A.Gray

Shining Bedstraw

Stems reclining to erect, minutely retrorsely scabrous on angles, if not then glabrous; leaves shiny, in whorls of 6 along main stem; blades linear to elliptic, deflexed at maturity, tips cuspidate or mucronate; flowers white, many 4-lobed; fruits glabrous.

REFERENCES: Craig 1890:82 (sparingly in the woods and on the island); Selby & Craig 1890:10; Cooperrider 1995:526 (illus. p. 527). HERBARIUM RECORDS: [ca. 1834]—Cols., Lapham (CINC); 6 Jul 1883—N Cols., Devol; 8 Jul 1891—Franklin Co., Selby (OS, WOOS); Jun 1892—Cols., Werner (CLM); 27 Jun 1892—Wyandotte Grove, Selby; 8 Jul 1892—Cols., W. Kellerman; 30 May 1896—Cols., McCall; 30 May 1896—Reservoir Park, M. Wright; 4 Jul 1972—Alton-Darby Creek Rd. & Cole Rd., edge of woods, D. Keil 9338; 3 Jun 1982—Blendon Woods, Owens; 8 Jun 1986—Highbanks Metro Park (Delaware Co.), closed forest, Witsberger 918 (OWU); 21 Jun 1987—Highbanks Metro Park (Delaware Co.), woods, Witsberger 949; 10 Jul 1989—Highbanks Metro Park (Delaware Co.), blufftop woods directly N of Franklin/Delaware Co. line, Watts 483 (OS, OWU); 10 Jun 1990—along both sides of McOwen Rd., where McOwen Rd. meets Dixon Rd. at the Franklin/Licking Co. Line, woody swampy area, Jefferson Twp., Lowden 4381; 2 Jun 1991—Hoover Dam Park, W of Cubbage Rd., Blendon Twp., Lowden 4648; 25 Jul 1992—Slate Run Wood Ct., off Henderson Rd., ½ mi. E of Sawmill Rd., Perry Twp., Lowden 5007.

NOTE: See note under Galium asprellum.

5. Galium obtusum Bigelow var. obtusum

Stiff Marsh Bedstraw

Stems erect to reclining, glabrous; nodes pubescent; leaves spreading to ascending, in whorls of 4 or 5, mostly 4; blades linear to lanceolate or oblanceolate, margins finally toothed, apex rounded; corolla purplish, 4-lobed; fruits glabrous.

REFERENCES: Riddell 1834:156 (marshes); Sullivant 1840:29; Cooperrider 1995:526 (illus. p. 525).

HERBARIUM RECORDS: 20 Apr 1890—near Cols., Selby (WOOS); 20 Jun 1924—Franklin Co., along RR, R. Crane (OWU); 4 Jun 1931—1 mi. SW of Westerville, Hicks; 10 Jun 1990—both sides of McOwen Rd., where McOwen Rd. meets Dixon Rd. at the Franklin/Licking Co. Line, woody swampy area, Jefferson Twp., Lowden 4376.

6. Galium trifidum L.

Small Bedstraw

Peduncles and pedicels scabrous and arched.

REFERENCES: Selby & Craig 1890:10 (#324 & 325); Kellerman & Werner 1893:229 (hillside S of Botanical Bldg., 4 Aug 1890).

HERBARIUM RECORD: 5 Sep 1891—Cols., Werner (CLM).

NOTE: Not mapped for Franklin Co. by Cooperrider 1995:524 (illus. p. 525).

7. Galium tinctorium L.

Wild Madder

Stems erect to reclining, scabrous; leaves in whorls of 4-6; blades linear to oblanceolate, margins finely toothed, apex rounded; corolla white, 3-lobed; fruits roughened or glabrous, without hairs or bristles, usually borne in groups of 3 at the tip of a straight peduncle.

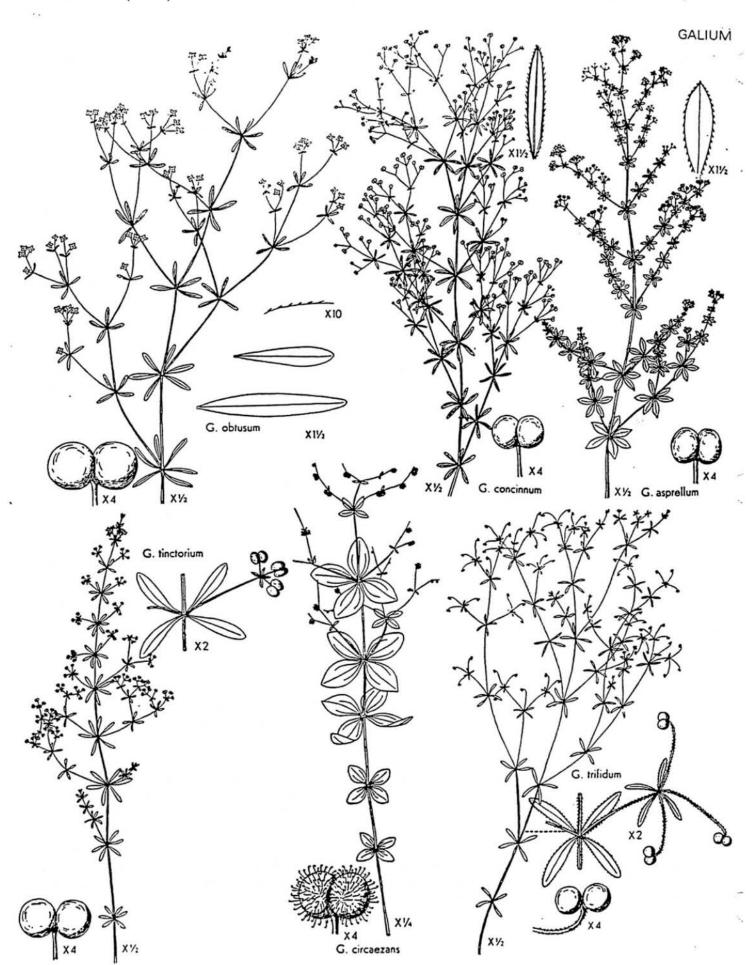
REFERENCES: Riddell 1834:156 (dense and shady woods); Sullivant 1840:29; Cooperrider 1995:524 (illus. p. 525).

HERBARIUM RECORDS: 6 Aug 1897—Hamilton T[w]p., W. Kellerman; 7 Sep 1930—bog at Baumgartner's Pond, Jackson Twp., Gordon & Chapman; 6 Nov 1984—Gahanna Woods State Nature Preserve, swamp in SW corner of preserve (V), Tyrrell; 16 Jul 1989—Highbanks Metro Park (Delaware Co.), pond bank-oldfield, Morawetz 98 (OS, OWU); 7 Jun 1991—Boyer Park, at end of Park St., E of Rt. 3, Westerville, Blendon Twp., Lowden 4673; 30 Sep 1991—N side of Rodebaugh Rd., 3/4 mi. E of Reynoldsburg, New Albany Rd., open areas of small wetland, sect. 6, Truro Twp., Reynoldsburg Quad., McCormac 4408.

8. Galium circaezans Michx.

Wild Liquorice

Stems erect, glabrous or pubescent; leaves in whorls of 4, pubescent; blades ovate-lanceolate to elliptic, having 3 main visible veins, the widest near the middle, apex acute to obtuse; corolla greenish-white; fruits covered with bristles, sessile or on pedicels to 1.5 mm long.



REFERENCES: Riddell 1834:156 (dense and shady woods); Sullivant 1840:29; Craig 1890:82 (rather common in the woods); Selby & Craig 1890:10; Cooperrider 1995:520 (illus. p. 521).

HERBARIUM RECORDS: 1834 & 1839—Worthington, J. Paddock Collection (ILL); Summer 1888—OSU woods, Cols., Craig; 1 Jul 1891—Georgesville, Werner (CLM); 8 Jul 1891—Franklin Co., Selby; 27 Jun 1892—Scioto R., Selby; 28 Jun 1892—Cols., Bogue; Jul 1892—Gerogesville, Werner (CLM); 7 Sep 1899—Worthington, Selby; 11 Jun 1964—S side of Rt. 161 at E side of Alum Creek, woods, Blendon Twp., E. Herrick (KE, OS); 28 May 1982—Blendon Woods, Owens; 8 Jun 1986—Highbanks Metro Park (Delaware Co.), closed forest, Witsberger, 29 May 1991—Hoover Dam Park, W of Cubbage Rd., Blendon Twp., Lowden 4639.

9. Galium lanceolatum Torr.

Lance-leaved Bedstraw

Similar to Galium circaezans except for leaves lanceolate, widest at base, apex acute to acuminate; corolla purple. REFERENCE: Cooperrider 1995:520 (illus. p. 523).

HERBARIUM RECORD: 1834-Worthington, J. Paddock Collection (ILL).

10. Galium triflorum Michx.

Fragrant Bedstraw, Sweet-scented Bedstraw

Stems erect to reclining, with few retrorse bristles or glabrous; leaves in whorls of 6, elliptic or oblanceolate, tips cuspidate, margins with bristles ascending; corolla white, 4-lobed; fruits covered with bristles.

REFERENCES: Riddell 1834:156 (slaty ravines); Sullivant 1840:29; Craig 1890:82 (occasionally found in the woods, 8 Jun 1884); Selby & Craig 1890:10; Cooperrider 1995:519 (illus. p. 521).

HERBARIUM RECORDS: 1892-Cols., E. M. Wilcar; 7 Sep 1899-Worthington, Selby; 14 Dec 1947-N Clintonville, swamp forest, Beatley.

11. Galium aparine L.

Goose-grass, Cleavers

Stems reclining, with retrorse bristles; leaves in whorls of 6-8, linear to oblanceolate, having one visible main vein at base, margins with diverging or retrorse bristles; corolla white; fruits covered with bristles.

REFERENCES: Riddell 1834:156 (open woods); Sullivant 1840:29; Craig 1890:82 (abundant in damp shady places, in the woods, S of the culvert, and near the river, 6 May 1882, 16 May 1883, 23 May 1884, 21 May 1885, 5 May 1887, 2 May 1888, 28 Apr 1889); Selby & Craig 1890:10; Cooperrider 1995:519 (illus. p. 521).

HERBARIUM RECORDS: 23 Apr 1890—near Cols., Selby; 19 May 1896—W Cols., M. Wright; 8 May [ca. 1920s]—Rd. to Alum Creek, McCoy; 12 May [ca. 1920s]—Westerville, White; 11 Jun 1964—S side of Rt. 161 at E side of Alum Creek, woods, E. Herrick; 19 May 1969—Park of Roses, Cols., Wiley 10; 6 May 1982—Highbanks Metro Park (Franklin & Delaware Cos.), ravine, G. Moore 285; 8 May 1982—Blendon Woods, Owens; 6 May 1986—Highbanks Metro Park (Delaware Co.), woods, Watts 292 (OWU); 10 May 1986—Highbanks Metro Park (Delaware Co.), open thicket, Witsberger 903 (OS, OWU); 15 May 1986—1 blk. N of Worthington High School Environmental Bldg., along bike path off Rt. 161, Benkowski 26; 22 May 1986—OSU woodlot, 500 yards W of intersection Kenny Rd. & Ackerman Rd., Hollander 045; 7 May 1988—lot between 5921-5945 N. High St., Worthington, 1 mi. S of Rt. 161 & Rt. 23 intersection, M. Hoffman 56; 25 May 1988—E bank of Olentangy R., near Dodridge St., Cols., Kelly 34; 8 May 1989—Overbrook Drive Ravine, E of N. High St., & S of Cook Rd., Clinton Twp., Cols., Lowden 4004; 19 May 1990—N side of Morse Rd. at Franklin/Licking Co. Line, Plain Twp., Lowden 4325; 22 May 1990—Roberts Rd., W of Alton & Darby Creek Rd., 1 mi. E of Walker Rd., field, Brown Twp., Lowden 4331; 10 Jun 1990—along both sides of McOwen Rd., where McOwen Rd. meets Dixon Rd. at the Franklin/Licking Co. Line, Jefferson Twp., Lowden 4380.

CAPRIFOLIACEAE, Honeysuckle Family

Shrubs and woody vines, rarely herbs; leaves opposite, usually simple, with or without stipules; flowers epigynous, usually perfect, in small clusters or in terminal cymes; sepals, petals, and stamens 5 or 4; calyx sometimes minute; petals united; corolla regular or zygomorphic, sometimes 2-lipped; stamens inserted on corolla; carpels 3-5, united; locules 1-5; style 1, sometimes very short; stigmas separate or united; fruit a berry, drupe, or capsule.

Ornamentals not included in the key below are Kolkwitzia amabilis Graebn. (Beauty-bush), Weigelia floribunda Mey., Weigelia japonica Thunb., and Abelia × grandiflora (André) Rehder (Glossy Abelia). All are Asian shrubs, cultivated on the OSU Campus.

- a Style half as long as corolla or longer; corolla campanulate, tubular, or funnelform.
 - b Sepals linear, separate or almost, not less than 1/3 as long as corolla tube.
 - c Shrubs; blades serrate; sepals 1/3-1/2 as long as corolla tube. 1. DIERVILLA
 - c' Coarse herbs; blades entire; sepals not shorter than corolla tube. 4. TRIOSTEUM
 - b' Calyx entire or with triangular teeth or lobes, sometimes minute.
 - d Corolla zygomorphic to nearly regular, rarely as short as 8 mm, sometimes tubular, sometimes 2-lipped; calyx minute; flowers in terminal and subterminal clusters subtended by connate-perfoliate leaves, or in pairs on axillary peduncles; shrubs and vines. 2. LONICERA

