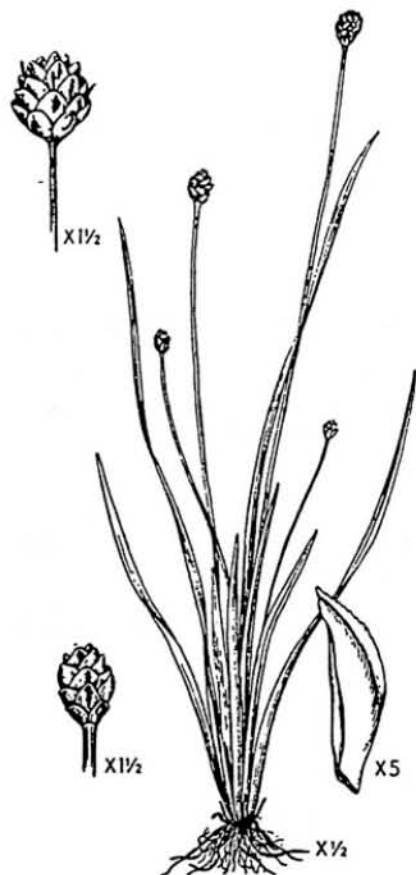
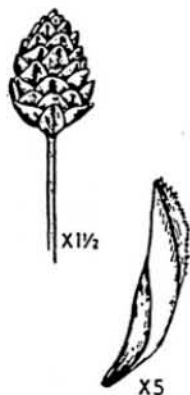


XYRIS
TRADESCANTIA
COMMELINA
JUNCUS



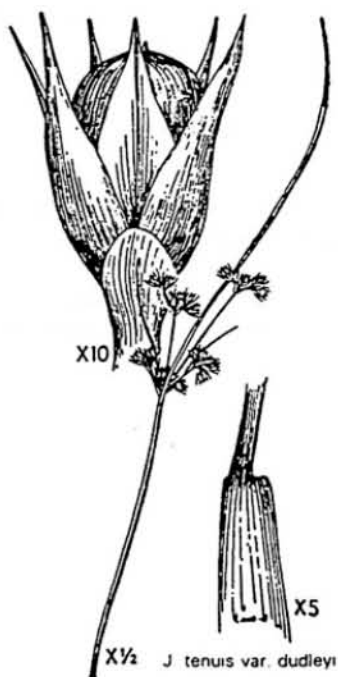
X. caroliniana



T. virginiana



X½



X10

X½ *J. tenuis* var. *dudleyi*



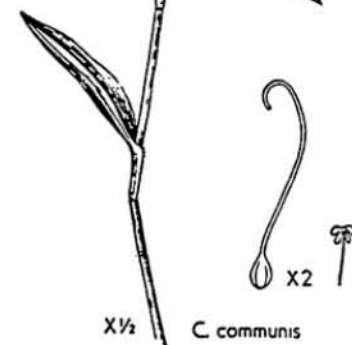
var. *tenuis*

X5

J. tenuis

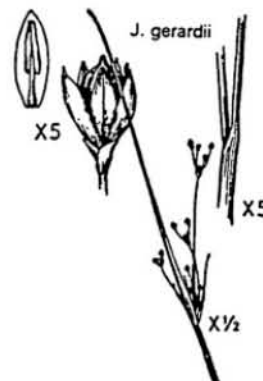
X½

X10



X½

C. communis



X5

J. gerardii

X5

X½

Leaves basal or nearly so, linear or linear-lanceolate; flowers perfect; hypogynous, bracted, in ovoid heads or spikes 5-15 mm long; sepals 3, one larger; petals 3, yellow; stamens 3; staminodes 3; capsule 1-loculed; placentae 3, parietal.

1. †*Xyris difformis* Chapm.

Yellow-eyed Grass

Leaves and scape not conspicuously twisted; lateral sepals with erose keel; base of plant soft, not hard and bulbous.

REFERENCE: Riddell 1834:158 (*Xyris caroliniana*, wet prairies).

NOTE: No specimens seen from Franklin Co. Not mapped for Franklin Co. by Braun 1967:309 (illus. p. 308).

COMMELINACEAE, Spiderwort Family

Leaves sheathing at base, entire; flowers hypogynous, perfect, clustered, ephemeral; sepals 3, green; petals 3, sometimes unequal; stamens 6, some of them sometimes sterile; carpels 3, united; ovary 3-loculed; ovules 1-few in each locule or 1 locule empty; style 1, stigma 1; fruit a capsule.

a Fertile stamens 6; corolla regular. 1. TRADESCANTIA

a' Fertile stamens 3; corolla zygomorphic. 2. COMMELINA

1. TRADESCANTIA L. Spiderwort

Inflorescence subtended by a leaflike bract; sepals often somewhat tinged with rose-purple; petals 1-2 cm long, blue, rose, or white; filaments bearded.

1. *Tradescantia virginiana* L.

Virginia Spiderwort

Leaves not glaucous; blade little, if any, wider than circumference of sheath; petiolelike base absent; fertile stamens 6; corolla zygomorphic; pedicels and sepals hairy, not viscid. Syn.: *T. virginica* L.

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

HERBARIUM RECORDS: 1840—Cols., Sullivant; Apr 1890—Olentangy Villa, Cols., Selby; 1 Jun 1890—Olentangy, Cols., Selby; 6 Jun 1891—Morgans Station, Selby; 22 May 1899—Big Darby, Selby; 1 Jun 1963—alley between Lane Ave. & Northwood Ave., Cols., Cusick; 21 May 1986—Park of Roses, Cols., Blanco; 26 May 1986—hilly woodland, N of Alkire Rd. & Gardner Rd., Yang 201; 22 May 1988—alley between E. Norwich Ave. & Northwood Ave., Cols., Kelly 18; 14 May 1992—Cedar Ridge, Battelle Darby Metro Park, Pleasant Twp., Lowden 4942.

NOTE: Not mapped for Franklin Co. by Braun 1967:314 (illus. p. 312). Braun incorrectly mapped *Tradescantia ohioensis* Raf., perhaps based on Cusick's specimen which is *Tradescantia virginiana*.

2. COMMELINA L. Dayflower

Inflorescence subtended by a cordate-ovate folded spathe; sepals of unequal size, slightly united; anthers of fertile stamens unlike, 3 stamens sterile; filaments glabrous; one locule of ovary sometimes without an ovule.

1. **Commelina communis* L.

Common Dayflower, Asiatic Dayflower

Naturalized (native of E Asia)

Inflorescence subtended by a folded heart-shaped spathe; stamens 6, 3 sterile; corolla zygomorphic, larger two upper petals blue, ovate, smaller lower petal white or pale.

HERBARIUM RECORDS: 30 Aug 1903—Cols., cult., Wetzstein (MU); 23 Jun 1920—Cols., a weed in yards & gardens, J. H. Schaffner; 19 Aug 1982—Blendon Woods, Owens; 6 Sep 1986—Highbanks Metro Park (Delaware Co.), edge of Olentangy R., Witsberger 927 (OS, OWU); 24 Aug 1989—E side of Olentangy R., along Starret Rd. near jct. with Henderson Rd., Clinton Twp., Lowden 4288.

NOTE: Not mentioned for Franklin Co. by Braun 1967:311 (illus. p. 312).

JUNCACEAE, Rush Family

Annual or perennial grasslike or sedgelike herbs; leaves linear, sometimes auricles at summit of sheath; flowers small, hypogynous, perfect; individual flowers or glomerules of flowers in cymes, spikes, or umbels; sepals and petals 3 each, separate, regular, glumelike, green, brown, or red; stamens 6 or 3; style 1; stigmas 3; carpels 3, united; ovary 3- or 1-loculed; fruit a capsule.

- a Plants glabrous; leaf-sheaths open; capsule many-seeded. 1. **JUNCUS**
- a' Plants usually hairy; leaf-sheaths closed; capsule 3-seeded. 2. **LUZULA**

1. **JUNCUS L.** Rush

Blades flat or terete, sometimes absent; stamens 6, opposite petals and sepals, or 3, opposite sepals; ovary 3-loculed, placentae axile, or 1-loculed, placentae parietal; seeds many, sometimes with tail-like appendages.

- a Blades flat or terete, not septate, sometimes absent below involucre of inflorescence.
 - b Each flower with 2 small bracts (prophylls) immediately below perianth; flowers not in heads.
 - c Inflorescence apparently lateral, a single involucral leaf appearing to be a continuation of stem; leaves below involucre only bladeless sheaths. 3. *J. effusus*
 - c' Inflorescence terminal; blades present below involucre.
 - d Perianth-parts with brownish stripes, tips incurved, about equaling stamens; leaf-sheaths extending halfway up the culm or more; rare. 1. *J. gerardii*
 - d' Tips of perianth-parts erect or spreading, acute; leaf-sheaths on only lower portion of culm. 2. *J. tenuis*,
 - e Auricles delicate, hyaline, much longer than wide, to 5 mm long; bract usually exceeding inflorescence.
 - f Leaves from half as long as stem to longer than stem; stems 1-6 dm tall; branches of inflorescence 1-8 cm long; flowers clustered near tips of branches, var. *tenuis*
 - f' Leaves much shorter than stems; stems 4-9 dm tall; branches of inflorescence longer, to 2 dm; flowers scattered and somewhat secund, var. *anthelatus*
 - e' Auricles rounded at summit, coriaceous, yellow or brown, about 1 mm long, not longer than wide; prophylls with rounded or subacute apex (*J. dudleyi*), var. *dudleyi*
 - b' No bracts (prophylls) immediately below perianth; flowers in glomerules of 2 or more; stamens almost as long as perianth.
 - g Stems tufted, slender; blades 3 mm wide or less; heads fewer than 25; stamens usually not persistent in fruit. 4. *J. marginatus*
 - g' Stems stout, usually arising singly from rhizome, 3 mm thick or more at base; blades 4 mm wide or more; heads usually more than 25; stamens usually evident in fruit. 5. *J. biflorus*
 - a' Leaf blades terete, septate; flowers in heads; no bracts (prophylls) immediately below perianth.
 - h Seeds with white tips or tail-like appendages (combined length much less than length of seed-body). 6. *J. brachycephalus*
 - h' Seeds with minute dark tips, not with tail-like appendages.
 - i Stamens 3.
 - j Heads densely spherical; capsule about as long as perianth; rare or absent in Ohio. 9. *J. scirpoides*
 - j' Heads hemispherical; capsule equaling or slightly longer than perianth; inflorescence about half as wide as long, heads relatively few. 10. *J. acuminatus*
 - i' Stamens 6; capsule slender, subulate; sepals and petals narrowly lanceolate, tapering to slender pointed apex; heads dense, spherical.
 - k Stem stout; blades abruptly divergent from stem; auricles 2 mm long or more; heads greenish-brown, to 1.5 cm wide; sepals longer than petals. 7. *J. torreyi*
 - k' Stem slender; blades erect or ascending; auricles 1 mm long; heads reddish-brown, to 12 mm wide; sepals and petals equal or petals longer. 8. *J. nodosus*

1. *†*Juncus gerardii* Loisel.

Black-grass

Adventive (native along the E coast U.S.)

Each flower with 2 small bracts (prophylls) below perianth; inflorescence terminal, flowers not in heads; blades present below involucre; perianth-parts with brownish stripes, tips incurved.

REFERENCE: Stuckey & Roberts 1982:45 (from swales and ditches along railroads ... Cols.; treated under exclusions).

HERBARIUM RECORDS: 7 Jun 1980—wet ditch along N edge of railyard, Swan Ave. ext., under N. 4th St. overpass, just N of downtown Cols., NW ¼ SE Cols. Quad., *W. Carr 2892*; 15 Jun 1980—ditch along E. Swan Ave. just E of Fourth St. overpass along Conrail RR, Cols., *Stuckey 10100*; 2 Aug 1980—N side of Swan Ave. exit, at N edge of railyard on N side of downtown Cols., under N. 4th St. overpass, NW ¼ SE Cols. Quad., *W. Carr 3032 (KE)*.

NOTE: Not mapped for Franklin Co. by Braun 1967:323 (illus. p. 320).

2. *Juncus tenuis* Willd.

Path Rush, Yard Rush, Path-grass

Blades flat or terete, not septate; perianth subtended with 2 small rounded or subacute bracts (prophylls); inflorescence terminal, exceeded by involucre leaf, flowers not in heads.

Three varieties are recognized:

†var. *tenuis*

Inland Rush

Auricles delicate, hyaline, much longer than wide, about 3-4 mm long. Leaves half as long as stem to longer than stem, flowers clustered near tips of inflorescence branches. Syn.: *J. interior* Wiegand

REFERENCES: Riddell 1834:158; Sullivant 1840:45; Craig 1890:105 (very common in dry grounds and along paths); Selby & Craig 1890:16.

HERBARIUM RECORDS: 25 Jun 1977—Pickerington Marsh, intersection of Wright Rd. & Bowen Rd., 3 mi. W of Pickerington & 3 mi. N of Canal Winchester, Sect. 18, Madison Twp., Sect. 17, Violet Twp., Franklin/Fairfield Co. line, *Eu. Wright*; 10 Jun 1991—Boyer Park at end of Park St., E of Rt. 3, Westerville, Blendon Twp., *Lowden 4681*.

NOTE: Not mapped for Franklin Co. by Braun 1967:323 (illus. p. 324).

var. *anthelatus* Wiegand

Similar to the typical variety except leaves much shorter than stems, flowers scattered and somewhat secund.

HERBARIUM RECORDS: 28 Jul 1890—Cols., *Hine*; 1 Jul 1891—Georgesville, *Werner* (CLM); 5 Aug 1989—Godown Rd., drainage ditch, between Commerce Pl. & LeAnne Marie Circle, Perry Twp., *Lowden 4250*; 13 Jun 1990—Gahanna Woods Park, prairie area, W of Taylor Station Rd., Jefferson Twp., *Lowden 4400*; 5 Jul 1991—Blacklick Woods Metro, field outside Walter A. Tucker Nature Interpretation Center, common, *Rawlings 1*; 24 Jul 1992—Sharon Woods Metro Park, moist open swale just N of Schrock Lake, Sharon Twp., *Watts 628*.

NOTE: Not mapped for Franklin Co. by Braun 1967:323 (illus. p. 324).

var. *dudleyi* (Wiegand) F.J.Herm.

Auricles rounded at summit, coriaceous, yellow or brown, about 1 mm long, not longer than wide; capsule not longer than perianth. Syn.: *J. dudleyi* Wiegand

REFERENCE: Braun 1967:325 (illus. p. 324).

HERBARIUM RECORDS: 25 Jun 1893—Cols., *Werner*; 30 Jun 1963—E bank of Olentangy R., marshy ground, directly W of French Field House, OSU campus, Cols., *Cusick*; 9 Jul 1989—Highbanks Metro Park (Delaware Co.), wet field directly N of Franklin/Delaware Co. line, *Watts 485* (OS, OWU); 12 Jun 1991—Antrim Park, drainage ditch, walkway underpass Rt. 315, Sharon Twp., *Lowden 4686 & 4688*; 22 Jul 1991—Antrim Park, drainage ditch, walkway underpass Rt. 315, Sharon Twp., *Lowden 4778*.

3. *Juncus effusus* L. var. *solutus* Fernald & Wiegand

Soft Rush

Culms tufted; inflorescence apparently lateral, a single involucre leaf appearing to be a continuation of stem; perianth green or pale brown; sepals not exceeding petals, usually shorter than to equal to capsule; anthers equaling filaments.

REFERENCES: Riddell 1834:158; Sullivant 1840:44; Craig 1890:105 (rather common in bogs, especially N of the island where there are two forms—one in which the flowers are borne near the top of the stem, and the other with them four or five inches from the top); Selby & Craig 1890:16; Braun 1967:321 (illus. p. 320).

HERBARIUM RECORDS: 9 Aug 1890—Cols., *Hine*; [ca. 1982]—Blendon Woods, *Owens*; 7 Jun 1987—Highbanks Metro Park (Delaware Co.), wet field hillside, *Morzwet 49* (OS, OWU); 9 Aug 1990—S side of Berger Rd., 1 mi. E of Richardson Rd., Madison Twp., *Lowden 4553*; 12 Jun 1991—Antrim Park, drainage ditch, walkway underpass of Rt. 315, Sharon Twp., *Lowden 4687*; 22 Jul 1991—Antrim Park, drainage ditch, walkway underpass of Rt. 315, Sharon Twp., *Lowden 4779*.

4. †*Juncus marginatus* Rostk.

Rush

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

NOTE: No specimens seen from Franklin Co. Not mapped for Franklin Co. by Braun 1967:327 (illus. p. 324).

5. *Juncus biflorus* Elliott

Stems stout, often arising singly from rhizome; blades 4 mm wide or more; heads more than 25; stamens evident in fruit.

HERBARIUM RECORDS: 14 Aug 1992—just N of Schrock Lake, open moist swale, Sharon Woods Metro Park, Sharon Twp., *Watts 631*; 3 Sep 1992—W side of Cabbage Rd., occasional in dry openings in brushy field, approx. ½ mi. S of Walnut St., Blendon Twp., New Albany Quad., *McCormac 4891*.

NOTE: Not mapped for Franklin Co. by Braun 1967:325 (illus. p. 324).

6. *Juncus brachycephalus* (Engelm.) Buchenau

Rush

Leaf blades terete, septate; flowers in small head-like glomerules, 2-5 flowered; capsule much exceeding the acute perianth-segments, red-brown, abruptly short-beaked; combined length of tails or tips much less than length of seed-body.

REFERENCES: *Werner* 1893:93 (S of Cols., *Werner*); Braun 1967:329 (illus. p. 328).

HERBARIUM RECORD: 17 Sep 1892—canal S of Cols., *Werner*.

7. *Juncus torreyi* Coville

Rush

JUNCUS



Differing from *Juncus nodosus* in that stems are stout; blades abruptly divergent from stem, auricles more than 2 mm long; heads larger, greenish-brown to 1.5 cm wide; sepals longer than petals. Syn.: *J. nodosus* L. var. *megacephalus* Torr.

REFERENCES: Selby & Craig 1890:16; Kellerman & Werner 1893:230 (margin of lagoon near river, 23 Aug 1891); Braun 1967:327 (illus. p. 326).
HERBARIUM RECORDS: Oct 1929—pond near Cols., *Gordon & Thut*; 8 Aug 1990—Rt. 71, mi. 93 coming NE of Rt. 71, wet roadside ditch, near Harrisburg, Pleasant Twp., *Lowden 4527*; 9 Aug 1990—S side of Hibbs Rd., 1 mi. E of Rt. 104, swampy area, Jackson Twp., *Lowden 4539*; 31 Aug 1992—S end of Cleveland Ave. at I-670, occasional in low depressions in gravelly waste areas along abandoned RR tracks, just S of First Ave., Franklin Twp., SE Cols. Quad., *McCormac 4862*.

8. †*Juncus nodosus* L.

Rush

Stems slender; leaf blades terete, septate, erect or ascending, auricles 1-2 mm long; heads dense, spherical, reddish-brown, to 10 mm wide; stamens 6; sepals and petals narrowly lanceolate, tapering to a slender pointed apex; sepals and petals nearly equal in length; capsule slender, subulate.

REFERENCES: Werner 1893:93 (Georgesville, *Werner*); Jones 1943:97; Braun 1967:327 (illus. p. 326).
HERBARIUM RECORD: 29 Aug 1892—Georgesville, *Werner*.

9. *†*Juncus scirpoides* Lam.

Scirpus-like Rush

Adventive (coastal plain species)

REFERENCE: Selby & Craig 1890:16.

NOTE: No specimens seen from Franklin Co.; Braun 1967:327 treats as not native and states, "although occasionally reported, I have seen no specimens referable to this species, which is a coastal plain species ranging in the interior to S Missouri and Oklahoma, with disjunct stations at the S end of Lake Michigan." Weishaupt 1971:66 treats as native and states "rare or absent in Ohio."

10. *Juncus acuminatus* Michx.

Rush

Stems with usually 2 cauline leaves; flowers in hemispheric heads, few to many-flowered; capsule ovoid-primatic, about as long as the perianth; stamens 3; seeds with minute dark tips.

REFERENCES: Riddell 1834:158 (*Juncus polycephalus*); Riddell 1835:89 (*Juncus polycephalus* Michx., Worthington, marshes); Sullivant 1840:45 (*Juncus polycephalus* Michx.); Werner 1893:93 (Worthington and Alum Creek Station, *Werner*).

HERBARIUM RECORDS: 26 Jun 1839—Worthington, *J. Paddock Collection* (ILL); Aug [yr.?]—Cols., *Werner*, 1892—Alum Creek, *Werner* (CLM); Sep 1892—Cols., *Werner* (CLM); 10 Jun 1990—McOwen Rd., woody swampy area, jct. with Dixon Rd., Franklin/Licking Co. line, Jefferson Twp., *Lowden 4392*.

NOTE: Not mapped for Franklin Co. by Braun 1967:330 (illus. p. 328).

3,

2. LUZULA DC. Wood-rush

Leaf-blades flat and soft; perianth green or brown, often scarious; stamens 6; ovary 1-loculed; ovules and seeds 3, seeds often with caruncles.

a Heads short-cylindric on erect or ascending branches. 1. *L. multiflora*

a' Heads subglobose on slender, often divergent, branches. 2. *L. echinata*

1. *Luzula multiflora* (Retz.) Lej.

Woodrush

Similar to *Luzula echinata* except inflorescence branches ascending to erect with flowers in pale cylindric heads about 1 cm long.

HERBARIUM RECORDS: 29 Apr 1984—Glick Rd., 0.7 mi. W of Rt. 745, marshy meadows, *Valdebenito 7*; 9 May 1988—Highbanks Metro Park (Delaware Co.), woods on bluffs N of Franklin/Delaware Co. line, *Watts 419* (OWU); 12 May 1989—Highbanks Metro Park (Delaware Co.), woods directly N of Franklin/Delaware Co. line, E of bluffs, *Watts 467*; 11 May 1991—Hoover Dam Park, W of Cabbage Rd., woody area, Blendon Twp., *Lowden 4612 & 4618*; 12 May 1991—Flint Ravine, Camp Mary Orton, W of Rt. 23, N of Worthington, Sharon Twp., *Lowden 4620*.

NOTE: Not mapped for Franklin Co. by Braun 1967:334 (illus. p. 332).

2. *Luzula echinata* (Small) F.J.Herm.

Woodrush

Plants quite variable, hairy; cauline leaves few, small; capsule 3-seeded; flowers in compact subglobose heads; inflorescence branches of mature umbel divergent to reflexed; sepals and petals 3-4 mm long, tips attenuate, much exceeding capsule; filaments ½ length of anthers or less. Syn.: *L. campestris* DC. var. *echinata* (Small) Fernald & Wiegand

REFERENCES: Sullivant 1840:45; Selby & Craig 1890:16; Braun 1967:334 (illus. p. 332).

HERBARIUM RECORDS: 2 May 1891—Central College, *Selby*; 11 Apr 1903—Central College, *Jennings*.

LUZULA
SCIRPUS

