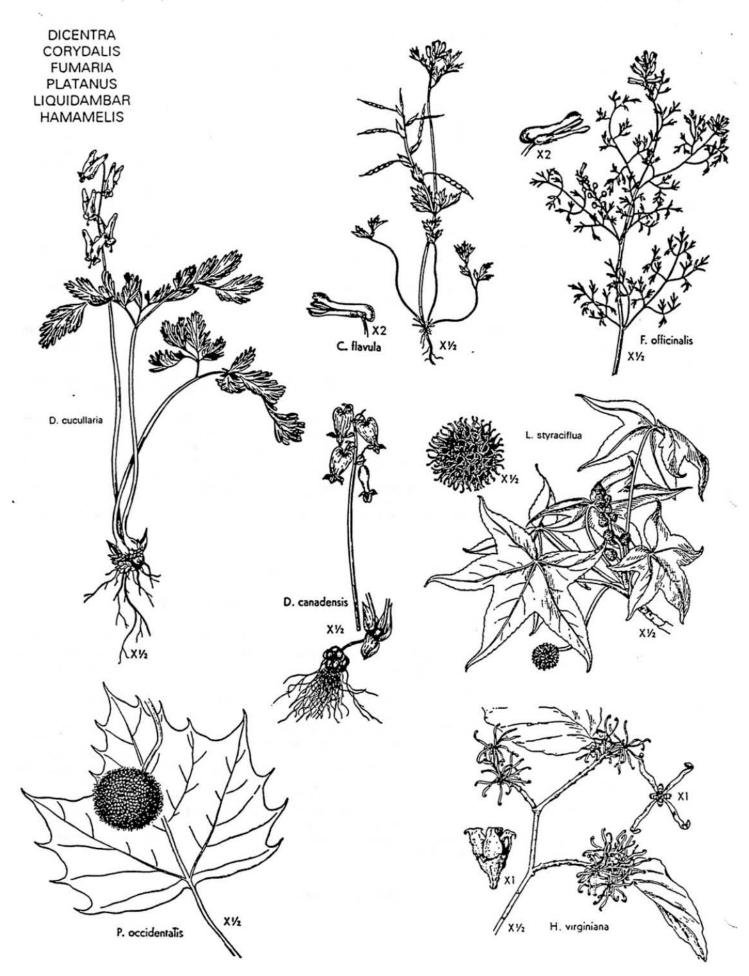
Manual of the Vascular Plants of Franklin County Richard M. Lowden (1997)



Fumitory

Stem diffusely branched; leaves decompound; flowers zygomorphic; sepals somewhat toothed; petals pink- or redpurple with darker tips; fruit 1-seeded, globose, 2-3 mm wide, indehiscent.

1. *Fumaria officinalis L.

Adventive (native of Europe)

Stems diffusely branched; leaves decompound; flowers zygomorphic; sepals 2, minute, somewhat toothed; petals pink or red-purple, darker at tips; fruit globose, 2-3 mm wide, 1-seeded. HERBARIUM RECORD: 1837—Cols., J. Paddock Collection, I. G. Jones (ILL).

PLATANACEAE, Plane-Tree Family

1. PLATANUS L. Plane Tree

Large trees with peeling bark; leaves alternate, simple, palmately veined and lobed; stipules foliaceous, encircling twig; flowers monosporangiate, the 2 kinds in separate spherical heads on same tree; staminate flower with small calyx, 3-7 stamens, and minute petals, filaments short or none, a fleshy cap at top of anthers; carpellate flower hypogynous, calyx small, petals present or absent, staminodes present, carpels several, separate; fruit an aggregate of achenes.

- a Exposed inner bark white; fruiting heads usually solitary. 1. P. occidentalis
- a' Exposed inner bark greenish or yellowish; fruiting heads 1-3 per peduncle; often planted. 2. P. × hydrida

1. Platanus occidentalis L.

Large tree, bark peeling, exposed inner bark white; fruiting heads usually solitary; fruit an aggregate of achenes. REFERENCES: Riddell 1834:119 (bottomland); Sullivant 1840:23; Craig 1890:101 (very common on the campus and along the river; some attain a large size, one being 130 feet high and 18 feet in circumference four feet above the ground); Selby & Craig 1890:15; Braun 1961:159 (illus. p. 160).

HERBARIUM RECORDS: 1897—OSU Campus, Ruppersberg; 11 May 1901—Marble Cliff, Mead; 10 Sep 1901—Cols., Tyler & Jennings; 4 Oct 1901—Cols., OSU Campus, Hartford; 11 Jun 1937—Hayden Falls, J. H. Schaffner, 3 Oct 1965—W bank Olentangy R., ½ mi. S of Henderson Rd. on Rt. 315, Anderson (KE); [ca. 1982]—Blendon Woods, common, Owens; 30 Aug 1982—Highbanks Metro Park (Franklin & Delaware Cos.), floodplain, Brauning 228; 6 May 1984—OSU Campus, Kattler 35; 16 Apr 1986—OSU, close to Biological Science Bldg., Cols., Cooperband 33; 21 Jul 1986—Highbanks Metro Parks (Franklin Co.), floodplain, Kosko; 14 Jun 1989—OSU Campus, behind B&Z bldg., 1735 Neil Ave., Cols., Lowden 4189.

2. *Platanus × hybrida Brot.

Cultivated along streets; planted on the OSU Campus (Trees OSU)

Exposed inner bark greenish or yellowish, fruiting heads 1-3 per peduncle, and the leaves often more truncate or broadly cuneate at the base. Syn.: $P. \times acerifolia$ (a fertile putative hybrid of P. occidentalis and the Old World P. orientalis L.)

HERBARIUM RECORDS: 24 Apr 1986-OSU Campus, Millikin Rd., E of Larkins Hall, Cols., Hollander 016; 29 Apr 1988-OSU campus, W of B&Z Bldg., N of greenhouse, M. Hoffman 37.

NOTE: See Braun 1961:159.

HAMAMELIDACEAE, Witch Hazel Family

Trees and shrubs with alternate simple leaves; flowers monosporangiate or bisporangiate; perianth regular, of 4 sepals and 4 petals, or none; stamens 4-many; carpels 2, united, styles 2, ovary 2-loculed, partly inferior.

- a Leaves palmately veined, palmately lobed; petals none; flowers in dense globular clusters. 1. LIQUIDAMBAR
- a' Leaves pinnately veined, margins repand; petals 4, yellow, linear; flowers in small axillary clusters. 2. HAMAMELIS

1. LIQUIDAMBAR L. Sweet or Red Gum

Sycamore, Button-wood

Sycamore, Button-wood

London Planetree

Tree; leaves palmately veined, lobes 5, serrate, narrowly triangular; pith 5-angled; monoecious; flowers monosporangiate, without perianth, but with minute scales, the staminate of many stamens, in heads, the heads in racemes; carpellate flowers cohering in axillary peduncled spherical heads, consisting of 2 styles and ovary; ovules many in each locule, 1 or 2 maturing; fruit multiple.

1. *Liquidambar styraciflua L.

Sweetgum, Red Gum

Witch Hazel

Native but cultivated

Tree, pith 5-angled; leaves palmately veined, lobes 3 or 5, serrate, narrowly triangular; flowers monosporangiate, without perianth; carpellate flowers in axillary peduncled spherical heads; fruit multiple.

REFERENCES: Craig 1890:79 (only a few specimens on the farm; one is W of the college bldg., the others are on the river bank E of the island); Kellerman & Werner 1893:227-228.

HERBARIUM RECORDS: 1897—OSU Campus, Ruppersberg 68; 7 Oct 1901—Cols., City Park, Hartford; 26 Oct 1901—Cols., J. H. Schaffner, 19 May 1969—OSU, Cols., Wiley 22; [ca. 1982]—Blendon Woods, Owens; 20 Apr 1988—OSU campus, just N of Women's Fieldhouse, SW of Cunz Hall, Gerberick 11; 26 Apr 1988—OSU, N of NE corner of Women's Fieldhouse, Chinery 19; 14 Jun 1989—OSU Campus, behind Campbell Hall, Cols., Lowden 4155.

NOTE: See Braun 1961:158 (illus. p. 157).

2. HAMAMELIS L. Witch Hazel

Shrub; leaves 2-ranked, short-petioled, blades oblique and rounded or cordate at base; buds stalked; flowers bisporangiate or some of them monosporangiate, in axillary clusters, appearing in autumn; sepals, petals, stamens, and staminodes 4; petals yellow, 1.5-2 cm long, ribbonlike; hypanthium adnate to base of carpels; fruit a 2-seeded capsule.

1. Hamamelis virginiana L.

Shrub-like or tree-like, buds stalked; leaves 2-ranked, pinnately veined, short-petioled; blades oblique, margins wavy; flowers in axillary clusters; sepals, petals, stamens and staminodes 4; petals yellow, ribbonlike. REFERENCES: Riddell 1834:117; Sullivant 1840:10; Selby & Craig 1890:10; Braun 1961:158 (illus. p. 157).

HERBARIUM RECORDS: Nov 1888—Neils Run, Cols., Craig; 1890—Neil's Run, Cols., Selby (WOOS); 1897—Neal's [Neil's] Run, Ruppersberg; 12 Oct 1897—Cols., Fullmer; 4 Oct 1901—N Cols., Eckman; 16 Nov 1906—N Cols., Spease; 30 Oct 1982—Blendon Woods, near Duck Blind, Owens; 5 Apr 1986—Highbanks Metro Park (Delaware Co.), orchard bluffs, closed forest, Witsberger 873 (OWU).

ULMACEAE, Elm Family

Trees and shrubs; leaves alternate, 2-ranked, simple, petioled, stipules early deciduous; flowers hypogynous or perigynous, bisporangiate or monosporangiate; petals none; stamens usually the same number as sepals and opposite them; carpels 2, united; styles short or absent; stigmas 2; ovary 1-loculed, with 1 ovule; fruit a samara or a drupe.

Zelkova serrata (Thunb.) Mak. is Asiatic in origin and locally planted as an ornamental tree on the OSU Campus (24 May 1967—OSU, parking lot behind Campbell Hall, Cols., Cooke & Stuckey; 22 Apr 1986—OSU Campus, W of Campbell Hall, Cols., Di Sabato-Aust 25; 14 Jun 1989—behind Campbell Hall, OSU Campus, Cols., Lowden 4152). This tree has a round-topped crown, leaves simple, 2-ranked, alternate, pinnately veined, flowers short-pediceled.

- a Flowers in fascicles or racemes, appearing in spring before the leaves or in autumn; sepals united; leaves pinnately veined; fruit a samara. 1. ULMUS
- a' Flowers solitary or in clusters of a few in axils of leaves of the season; sepals separate; leaves with 3 main veins from top of petiole; fruit a drupe. 2. CELTIS

1. ULMUS L. Elm

Trees; leaves serrate or doubly serrate, often oblique at base; flowers bisporangiate, small, red-purple, yellow, or green, in fascicles or racemes, in most species appearing before the leaves; calyx 4- to 9-lobed; fruit a 1-seeded samara.

Several cultivated species of Ulmus are included in the key below.