

Vines or large shrubs; inflorescence axillary, loose, drooping in fruit; drupes greenish-white to yellowish, glabrous.

a Leaflets more than 3, entire, short-stalked. 1. *T. vernix*

a' Leaflets 3, often with a few irregular teeth or lobes, terminal leaflet long-stalked, lateral ones short-stalked.

2. *T. radicans*

1. †*Toxicodendron vernix* (L.) Kuntze

Poison Sumac

Shrub or small tree; leaves pinnately compound, leaflets entire, short-stalked; leaf-rachis not winged; branches glabrous. Syn.: *Rhus vernix* L.

REFERENCES: Riddell 1834:119; Sullivant 1840:21 (*Rhus venenata* DC.); Selby & Craig 1890:9 (*Rhus venenata* DC.); Selby 1891a:111a (#159 Recollected).

HERBARIUM RECORD: 1840—Cols., Sullivant.

NOTE: Not mapped for Franklin Co. by Cooperrider 1995:62 (illus. p. 63).

2. *Toxicodendron radicans* (L.) Kuntze

Poison Ivy

Trailing, shrubby or high-climbing vines; leaves 3-foliolate; terminal leaflet long-stalked; fruits white. Syn.: *Rhus radicans* L., *R. toxicodendron* (L.) Kuntze

REFERENCES: Riddell 1834:119; Sullivant 1840:21; Craig 1890:74 (very common in the woods and along the river climbing on trees and bushes; it often grows quite large; I found last summer, by the lake, a specimen that had branches over four feet long; the vines frequently grow to the tops of our tallest trees; some were found on the island a few years ago that were three inches in diameter; 27 May 1887); Selby & Craig 1890:9; Braun 1961:238 (illus. p. 236); Cooperrider 1995:62 (illus. p. 63).

HERBARIUM RECORDS: 1834—Worthington, *J. Paddock Collection* (ILL); 1840—Cols., Sullivant; 27 Sep 1898—Cols., Fullmer; 19 Jun 1901—OSU farm, Mead; Winter 1904-5—Cols., J. H. Schaffner; 24 May 1909—Cols., Bergin; 28 Mar 1970—approx. 1 mi. S of Dublin, limestone cliff overlooking old quarry between Rt. 33 and the Scioto R., Roberts 103; 1 Jun 1980—cindery soil along RR tracks 1 blk. E of N. 4th St., at end of 19th Ave., SW ¼ NE Cols. Quad., W. Carr 2866; 26 May 1982—OSU Cols., W end of Waterman farm complex, Kenny Rd., D. Wilson 59; 9 Aug 1982—E side of Hoover Reservoir, W of Cabbage Rd. & ½ mi. N of jct. of Central College Rd., Blendon Twp., New Albany Quad., Cusick 21920; 21 May 1986—Park of Roses, Cols., Blanco.

3. COTINUS DuRoi Smoke-tree

Shrub with obovate or elliptic pinnately-veined leaves; flowers in terminal panicles, monosporangiate or bisporangiate, the pedicels on which no fruits develop becoming long and plumose; fruits glabrous, asymmetric, style lateral.

1. **Cotinus coggyria* Scop.

Smoke-tree

Cultivated to Escaped (introduced from Eurasia)

Leaves simple; smoky appearance due to the greatly elongated plumose sterile pedicels in the panicles.

HERBARIUM RECORD: 1897—OSU campus, E.A.R.

NOTE: Not mentioned for Franklin Co. by Braun 1961:233 or Cooperrider 1995:58.

SIMAROUBACEAE, Quassia Family

1. AILANTHUS Desf. Tree-of-Heaven

Tree; leaves alternate, pinnately compound, leaflets many, each with 1 or 2 glandular teeth near base; flowers hypogynous, greenish, small, in terminal panicles; flowers staminate, carpellate, or bisporangiate; sepals 5, united at base; petals 5, separate; stamens 10 in staminate, fewer in bisporangiate, none in carpellate flowers; carpels 2-5, styles united, ovaries separate or nearly so, fruit an aggregate of samaras.

1. **Ailanthus altissima* (Mill.) Swingle

Tree-of-Heaven

Naturalized (native of E Asia)

Tree emitting a foul odor; flowers small, greenish, in terminal panicles; leaves alternate, pinnately compound; leaflets many with glandular teeth near base; fruit a somewhat twisted samara, in clusters. Syn.: *A. glandulosus* Desf.

REFERENCES: Craig 1890:73 (Chinese Tree-of-Heaven, two large trees on the hill N of the lake; they are thoroughly naturalized and would spread rapidly if permitted to do so, as each spring they throw out a large number of shoots from the base of the tree); Selby 1892a:110 (introduced; Black Lick, D. S. Kellicott); Kellerman & Werner 1893:227 (trees planted); Cooperrider 1995:25 (illus. p. 24).

TOXICODENDRON
COTINUS
AILANTHUS
ZANTHOXYLUM



HERBARIUM RECORDS: 17 Sep 1892—Cols., *Werner* (CLM, OS); Jun 1893—near Cols., *E. M. Wilcox*; Oct 1897—Cols., *Riddle*; Fall 1903—Cols., *J. H. Schaffner*; 18 May 1986—Cols. Alley between 12th & 13th Ave., near Summit St., *Hollander 039*; 15 Jul 1988—Highbanks Metro Park (Delaware Co.), sandbars along Olentangy R., *Watts 444* (OS, OWU); 22 Sep 1991—end of Oxford St., S of 11th Ave., Clinton Twp., *Lowden 4856*.

RUTACEAE, Rue Family

Shrubs and small trees with alternate gland-dotted leaves; flowers hypogynous, bisporangiate or monosporangiate; perianth regular; petals separate.

Phellodendron amurense Rupr. (Corktree, native of E Asia), with wide-spreading branches and fissured corky bark, is a specimen tree on the OSU Campus (#30, A Walking Tour).

- a Leaves pinnately compound; carpels separate; fruit an aggregate of follicles. 1. ZANTHOXYLUM
a' Leaves 3-foliolate; carpels united; fruit a samara. 2. PTELEA

1. ZANTHOXYLUM L. Prickly-ash

Shrub; leaves pinnately compound; stems and sometimes petioles prickly; dioecious; flowers small, in axillary clusters, appearing before the leaves; calyx none; petals 4-5; stamens 4-5 in staminate flowers, on hypogynous disk; carpels 3-5, separate, becoming 1-2-seeded follicles.

1. *Zanthoxylum americanum* Mill.

Prickly-ash

Shrub; stems prickly; leaves pinnately compound, gland-dotted, tips of leaflets notched; flowers small, in axillary clusters appearing before the leaves. Thickets. Syn.: *Xanthoxylum americanum* Mill., *X. fraxineum* Willd.

REFERENCES: Riddell 1834:119; Sullivant 1840:16; Craig 1890:72 (quite rare, and only a few specimens have been found within our limits; five small shrubs along the river bank W of the seed barn; last summer the only one in the woods was cut down, but it may start up again; 26 Apr 1882, 8 May 1884, 10 May 1885, 24 Apr 1889); Selby & Craig 1890:8; Braun 1961:230 (illus. p. 228); Cooperrider 1995:23 (illus. p. 24).

HERBARIUM RECORDS: 26 Aug 1890—Cols., *Werner* (CLM); 21 May 1892—Franklin Co., *Werner*; 7 Sep 1899—Worthington, *Selby*; 1 Sep 1911—3/4 mi. NE of Westerville, woods, *Hanawalt*; [ca. 1982]—Blendon Woods, *Owens*.

2. PTELEA L. Hop-tree

Shrub or small tree; leaves 3-foliolate, petioled; flowers bisporangiate or monosporangiate, in dense terminal compound cymes; carpellate flowers sometimes with rudimentary stamens; sepals 3-5; petals 3-5, small, greenish-white, stamens as many; ovary 2-loculed; fruit a flat 2-seeded samara.

1. *Ptelea trifoliata* L.

Hop-tree, Wafer-ash, Shrub Trefoil, Shrubby Trefoil

Shrub or small tree; leaves 3-foliolate, glossy, dotted below; petals small, greenish-white; fruits flat, roundish samara. Woody thickets.

REFERENCES: Riddell 1834:119; Sullivant 1840:16; Craig 1890:72 (a single tree 10 or 12 feet high is growing along the river bank W of the seed barn, 12 Jun 1887; a very rare plant about Cols.; one specimen grows 2 mi. N of the city near the river, and there is one growing in Goodale Park; these are the only ones I know of in the county); Selby & Craig 1890:8; Braun 1961:231 (illus. p. 228); Cooperrider 1995:23 (illus. p. 24).

HERBARIUM RECORDS: [date?]-N of Cols., *Craig*; 6 Jun 1891—near Harrisburg, *Selby*; 6 Jul 1891—near Morgan Station, *Selby*; Jun 1893—Cols., *Werner* (CLM); 5 Jun 1895—Cols., *W. Kellerman*; 20 Jun 1901—Marble Cliff, *Mead*; 22 Jul 1982—Scenic Nature Preserve, Highbanks Metro Park, floodplain, *Brauning 288*; 30 Jun 1991—E bank of Scioto R., 1/2 mi. N of Fishinger Rd. Bridge, Upper Arlington, Perry Twp., *Lowden 4749*; 31 May 1993—W bank of Scioto R., Lou Berliner Park, Scioto Blvd., just N of Greenlawn Ave. bridge, Franklin Twp., *Lowden 5063*.

ZYGOPHYLLACEAE, Creosote-bush Family

1. TRIBULUS L. Caltrop

Stems prostrate, leaves even-pinnate, opposite, stipuled, one at each node larger; flowers about 1 cm wide, hypogynous, bisporangiate, solitary in axils; perianth regular; sepals and petals 5, stamens 10, petals yellow; carpels 5, united; style 1; ovary 5-loculed; fruit splitting into 5 segments, each with 2 spines and a band of tubercles.