

3. *Acer nigrum* F.Michx.

Black Maple, Black Sugar Maple

Tree; leaves simple; blades drooping at margins, basal sinuses narrow or lacking; petioles enlarged at base; stipules often present. Syn.: *A. saccharum* Marshall var. *nigrum* (F.Michx.) Britton, *A. saccharum* Marshall var. *viride* (Schmidt) E.Murray

REFERENCES: Craig 1890:74 (*Acer saccharinum* var. *nigrum*, one or two specimens on the campus and in the woods that agree fairly well with the description of this var., 24 Apr 1884); Selby & Craig 1890:9 (*Acer saccharinum* var. *nigrum*); Braun 1961:249 (illus. p. 248); Cooperrider 1995:77 (illus. p. 76).

HERBARIUM RECORDS: 1897—OSU campus, *Ruppertsberg*; 8 Aug 1899—Scioto R., *Selby*; 22 Oct 1907—Flint, *Detmers*; 17 Jul 1971—W of Olentangy River Rd., approx. ½ mi. N of Henderson Rd., Clinton Twp., *Roberts 1349*; 21 Jul 1986—Highbanks Metro Park (Franklin Co.), *Kasko*.

4. *Acer spicatum* Lam.

Mountain Maple

Shrub or small tree; leaves simple, 3-lobed, coarsely dentate or serrate; blades pubescent beneath.

REFERENCES: Braun 1961:247 (illus. p. 246); Cooperrider 1995:75 (illus. p. 74).

HERBARIUM RECORD: 19 Aug 1953—on steep sandstone bank, E side of Blacklick Creek, just S of Penna. RR tracks, Jefferson Twp. ("I have been familiar with this colony for over 30 years, only one plant found on 8-19-53, E.S.T."), *E. Thomas*.

NOTE: Both Sullivant 1840:12 and Selby & Craig 1890:9 reported on plants collected in adjacent counties.

5. *Acer rubrum* L. var. *rubrum*

Red Maple

Leaves 3-5 lobed, margins irregularly dentate-serrate; sinuses on both sides of terminal lobe rarely extends to middle of blade; terminal lobe widest at base; flowers red, leaves red in autumn.

REFERENCES: Riddell 1834:119; Sullivant 1840:12; Craig 1890:74 (rare, a few trees in the woods and around the island, it blooms soon after the Silver Maple, 4 Mar 1882, 17 Mar 1883, 17 Apr 1884, 20 Mar 1886, 20 Mar 1888, 16 Mar 1889); Selby & Craig 1890:9; Braun 1961:247 (illus. p. 246); Cooperrider 1995:77 (illus. p. 76).

HERBARIUM RECORDS: [date?]-Cols., *Craig*; Apr 1890—Neil's Run, Cols., *Selby*; 4 Apr 1892—Cols., *Bogue*; 1897—Neil's Run, *Ruppertsberg*; 15 Apr 1901—Neil's Run, Cols., *Mead*; 22 May 1901—Cols., *Mead*; 12 May 1902—Worthington, *J. H. Schaffner*; 10 Oct 1902—Cols., *Sanders*; 19 Oct 1903—Franklin Co., *J. H. Schaffner*; 7 Oct 1905—High Banks (Franklin Co.), *Fischer*; [ca. 1982]—Blendon Woods, common, *Owens*; 1 Jul 1986—Highbanks Metro Park (Delaware Co.), woods near overlook, *Kasko*; 12 Jun 1993—Flint Ravine, Camp Mary Orton, W of Rt. 23, N of Worthington, Sharon Twp., *Lowden 5079*.

6. *Acer saccharinum* L.

Silver Maple, Soft Maple

Leaves 3-5 lobed, margins irregularly dentate-serrate; sinuses on both sides of terminal lobe extending below middle of blade; terminal lobe widest at about the middle and tapering to its base.

REFERENCES: Riddell 1834:119 (*Acer eriocarpum* Michx., bottomland); Craig 1890:74 (*Acer dasycarpum* Ehrh., our earliest blooming tree, quite abundant along Neil Ave., 17 Feb 1882, 14 Apr 1885, 20 Mar 1886, 5 Mar 1887, 14 Mar 1888, 15 Mar 1889); Selby & Craig 1890:9 (*Acer dasycarpum* Ehrh., introduced); Braun 1961:247 (illus. p. 248); Cooperrider 1995:79 (illus. p. 76).

HERBARIUM RECORDS: 1897—City Park & OSU campus, *Ruppertsberg 19 & 100*; 11 Oct 1901—Olentangy R., planted, Cols., *Hartford*; 20 May 1917—OSU campus, Cols., *Detmers*; 3 Oct 1936—Cols., *S. Humphrey*; 3 Oct 1965—W bank of Olentangy R., ½ mi. S of Henderson Rd. on Rt. 315, *Anderson 2017 (KE)*; 21 Jul 1986—Highbanks Metro Park, streambanks, *Kasko*; 6 Jun 1989—704 Highland Dr., off Olentangy River Rd., Clinton Twp., *Lowden 4130*.

7. *Acer negundo* L. var. *negundo*

Box-elder, Ash-leaved Maple

Leaves 3-foliolate or pinnately compound, 3-7 leaflets; young stems green. Syn.: *Negundo aceroides* Moench

REFERENCES: Riddell 1834:119 (bottomland); Sullivant 1840:12; Craig 1890:74 (several specimens on the campus and along the river, the largest one I have seen is in the meadow near the river and S of the road, 20 Apr 1884, 27 Apr 1885, 25 Apr 1887, 16 Apr 1889); Selby & Craig 1890:9; Braun 1961:251 (illus. p. 250); Cooperrider 1995:79 (illus. p. 78).

HERBARIUM RECORDS: 1840—Cols., *Sullivant*; 19 May 1883—Olentangy R., Cols., *Devol*; 1892—Franklin Co., *Selby*; 1892—OSU campus, near Cols., *E. M. Wilcox*; 20 Aug 1892—Cols., *Werner (CLM)*; 23 May 1896—Worthington, *M. Wright*; 27 May 1896—Clintonville, *Werck*; 8 Aug 1899—Big Darby, *Selby (OS, WOOS)*; 28 Sep 1901—OSU campus, Cols., *Hartford*; 19 Apr 1902—OSU campus, *Mead*; 2 Oct 1902—OSU campus, Cols., *Sanders*; 3 May 1970—Clintonville along Olentangy R. in Northmoor Park, *W. Owen 112*; [ca. 1982]—Blendon Woods, not common, *Owens*; 5 May 1985—Tuttle Park, Cols., *Cho 42*; 5 Apr 1986—Tuttle Park along banks of Olentangy R., *Cooperband 7*; 12 Apr 1986—OSU campus, field E of OSU S woodlot, 100 yards N of Kinnear Rd., *Hollander 003*; 25 Apr 1986—6887 Hayhurst, Worthington, *Benkowski 18*; 21 Jul 1986—Highbanks Metro Park, *Kasko*; 11 Jun 1987—Tuttle Park, along E bank of Olentangy R. between Lane Ave. & Dodridge St. bridges, Cols., *T. Lammers 6119*; 23 Jun 1991—E bank of Scioto R., James J. Thomas Park, Upper Arlington, Perry Twp., *Lowden 4717*.

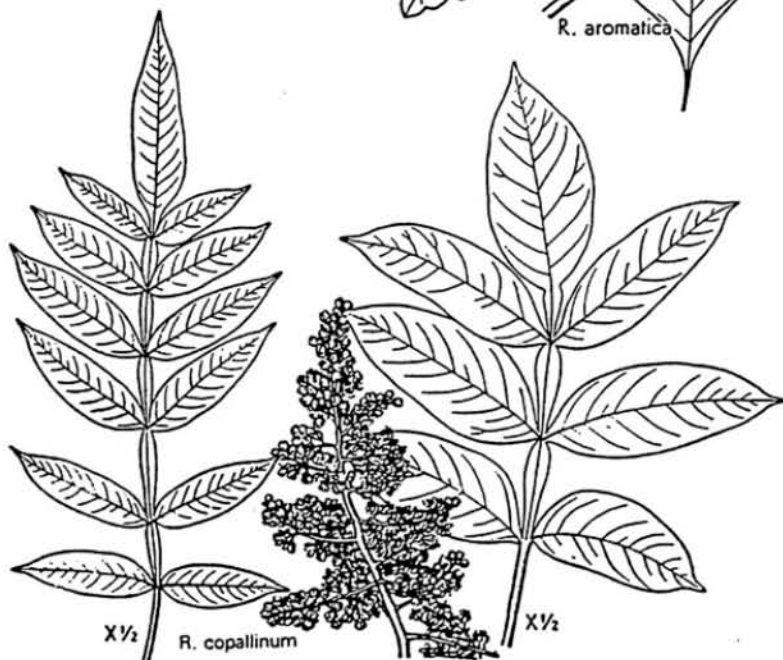
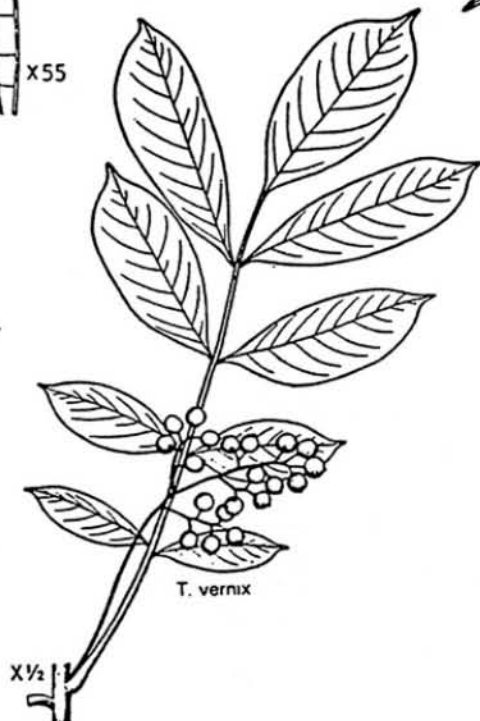
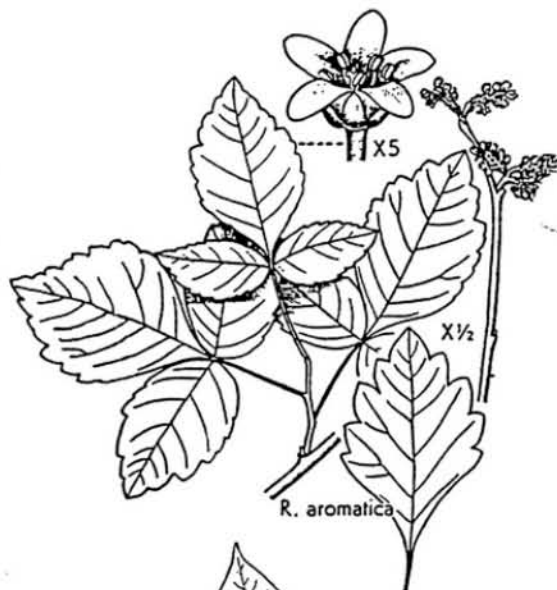
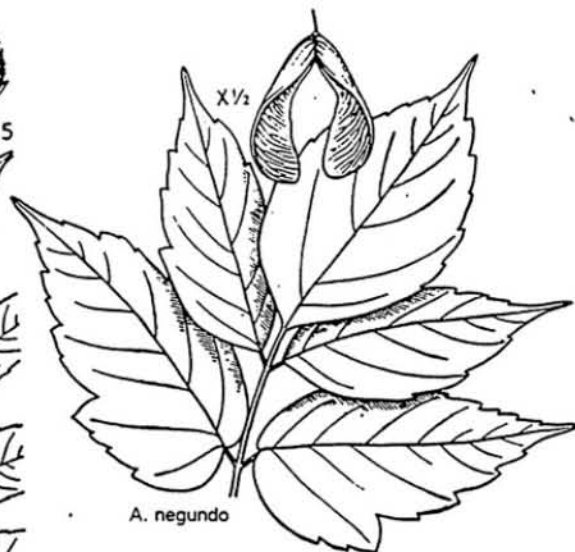
ANACARDIACEAE, Cashew Family

Trees, shrubs, and woody vines with milky or resinous sap; leaves alternate, simple or compound; flowers small, hypogynous, monosporangiate or bisporangiate, in panicles or in small spikes paniculately clustered; perianth regular; sepals and petals 5, stamens 5, inserted under edge of intrastaminal disk; carpels 3, united; styles and stigmas 3; ovary 1-loculed with 1 ovule; fruit a drupe.

ACER



ACER
RHUS
TOXICODENDRON



- a Leaves compound; fruit symmetric.
 - b Flowers in dense terminal panicles or short lateral solitary-clustered spikes; fruits red, pubescent. 1. RHUS
 - b' Flowers in loose axillary panicles; fruits white or drab. 2. TOXICODENDRON
- a' Leaves simple; fruit asymmetric. 3. COTINUS

1. RHUS L. Sumac

Small trees, shrubs, and vines; leaves 3-foliolate or pinnately compound; flowers greenish-white or yellow, in panicles or in short crowded spikes, bisporangiate and monosporangiate on same plant; style terminal.

- a Leaflets more than 3; flowers appearing after the leaves.
 - b Rachis of leaf not winged.
 - c Twigs and petioles glabrous and glaucous. 1. *R. glabra*
 - c' Twigs and petioles velvety-pubescent. 2. *R. typhina*
 - b' Rachis of leaf winged. 3. *R. copallinum*
- a' Leaflets 3; flowers appearing before or with the young leaves; leaves fragrant; terminal leaflet short-stalked, lateral ones sessile. 4. *R. aromatica*

1. *Rhus glabra* L.

Smooth Sumac

Shrubby habit; leaves pinnately compound; leaflets mostly 11 or more, sessile and serrate; twigs glabrous and glaucous; fruits bright red.

REFERENCES: Riddell 1834:119; Sullivant 1840:21; Craig 1890:74 (Mr. Devol found a staminate plant on the farm near the river 6 Jul 1883 but it was cut down when the island was cleared off and has not been seen since); Selby & Craig 1890:9; Braun 1961:237 (illus. p. 234); Cooperrider 1995:60 (illus. p. 59).

HERBARIUM RECORDS: 6 Jul 1883—Olentangy R., Cols., *Devol*; 10 Oct 1891—Georgesville, *Werner* (CLM); 1901—Cols., *J. H. Schaffner*, 21 Jul 1908—High Banks, *Stover*; [ca. 1982]—Blendon Woods, common, *Owens*; 24 Jul 1986—Highbanks Metro Park (Delaware Co.), open fields, *Kosko*; 30 Sep 1991—W side of Rt. 71, 2 mi. NE of Rt. 665 exit, Jackson Twp., *Lowden 4866*.

2. *Rhus typhina* L.

Staghorn Sumac

Shrub or small tree growing in groups; leaves pinnately compound, leaflets serrate; twigs densely soft-pubescent; fruits red.

REFERENCE: Braun 1961:237 (illus. p. 234).

HERBARIUM RECORDS: 1897—Clintonville, *Ruppersberg*; 20 May 1985—Olentangy R. on OSU campus, *Finnen 45*; 25 Sep 1991—W side of Dublin Rd., 1 mi. N of Tuttle Rd., along deep canyon ravine leading to Scioto R., Washington Twp., *Lowden 4858*.

NOTE: Finnen's specimen is *Rhus typhina* forma *dissecta* Rehder, with leaflets irregularly pinnately divided. Not mapped for Franklin Co. by Cooperrider 1995:60 (illus. p. 59).

3. *Rhus copallinum* L.

Shining Sumac, Winged Sumac

Leaflets 11; rachis of leaf winged.

HERBARIUM RECORD: [ca. 1982]—Blendon Woods, uncommon *Owens*.

NOTE: Not mapped for Franklin Co. by Cooperrider 1995:60 (illus. p. 59).

4. *Rhus aromatica* Aiton var. *aromatica*

Fragrant Sumac

Bushy shrub; leaves 3-foliolate, acute, terminal leaflet widest at about the middle, sessile or nearly so; fruits red.

Syn.: *R. canadensis* Marshall

REFERENCES: Riddell 1834:119; Sullivant 1840:21; Selby & Craig 1890:9; Braun 1961:237 (illus. p. 236); Cooperrider 1995:61 (illus. p. 63).

HERBARIUM RECORDS: [ca. 1834]—Cols., [*Lapham*] (URB); 1840—Cols., *Sullivant*; 1890—Scioto R., Cols., *Selby*; May 1890—Cols., *Selby*; 1 Jul 1891—Georgesville, banks of Big Darby R., *Werner* (CLM); 17 Jun 1897—Cols., *Osburn*; 11 May 1901—Marble Cliff, *Mead*; 20 Jun 1901—Marble Cliff, *Mead*; 7 Aug 1901—Georgesville, *Coberly*; 9 Apr 1967—S bank of Darby Creek, approx. ½ mi. SW of Darbydale, *Stuckey 3408*; 19 Jun 1973—quarry 1 mi. S of Dublin, E side of Scioto R. along Rt. 33, *Cahall & Roberts 3594*; 9 Aug 1977—Darby Creek Metro Park, W of Koebel-Suydam Rd., frequent, woods borders, NE of Georgesville, Pleasant Twp., *Cusick 17287* (KE); 11 May 1980—E bank of Scioto R., dry limestone cliffs, ¾ mi. S of Rt. 374, W edge of abandoned quarry, Perry Twp., NW ¼ Cols. Quad., *W. Carr 2733* (KE); 3 Jun 1980—E side of Scioto R., dry limestone outcrops, ¾ mi. S of Rt. 161, old quarry on Rt. 33, Perry Twp., NW ¼ NW Cols. Quad., *W. Carr 2875* (KE); 29 Apr 1988—0.4 mi. S of Lane Rd. & 0.2 mi. W of Rt. 33, 50 feet from the E bank of the Scioto R., Griggs Reservoir Park, *Chinery 21*; 14 Jun 1989—Rt. 315 ramp going N off of Henderson Rd., Clinton Twp., *Lowden 4202*; 23 Jun 1991—E bank of Scioto R., James J. Thomas Park, N of Fishinger Rd., Perry Twp., *Lowden 4737*.

2. TOXICODENDRON Mill.

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

