

SALICACEAE – WILLOW FAMILY

Plant: shrubs and trees, often aromatic

Stem:

Root:

Leaves: deciduous; simple, mostly alternate (rarely opposite); usually with paired stipules (usually deciduous)

Flowers: imperfect (dioecious); flowers tiny and crowded in catkins subtended by bracts (scales) with 1-2 glands or disk; no sepals or petals; 1-many stamens; ovary superior, 2-4 carpels and stigmas, 1 pistil

Fruit: capsule; seeds numerous, with cotton-like hairs

Other: family includes willows, poplars, cottonwood, aspens; willows are difficult sometimes due to hybridization; Dicotyledons Group

Genera: 4+ genera; locally *Populus*, *Salix* (willow)

SALICACEAE – WILLOW FAMILY

Cottonwood; *Populus deltoides* Bartr. Ex Marsh.

Bigtooth Aspen; *Populus grandidentata* Michx.

Quaking Aspen; *Populus tremuloides* Michx.

White Willow; *Salix alba* L. (Introduced)

Bebb [Long-Beaked] Willow; *Salix bebbiana* Sarg.

Coastal Plain [Ward's] Willow; *Salix caroliniana* Michx.

Sandbar Willow; *Salix interior* Rowlee

Shining Willow; *Salix lucida* Muhl.

Black Willow; *Salix nigra* Marsh.

Silky Willow; *Salix sericea* Marsh.

Weeping Willow; *Salix ×sepulcralis* Simonkai [*alba* × ?*pendulina*] (Introduced)

Cottonwood

Populus deltoides Bartr.

Ex Marsh. ssp. *deltoides*
Salicaceae (Willow Family)

Maumee River Metroparks, Lucas County, Ohio

Notes: tree; leaves deltoid (triangular), serrate, about as wide as long, petiole flattened; bark furrowed and dark at base, white to yellowish and smoother above; buds glabrous, yellowish to greenish-brown, resinous, large, terminal smaller than lateral buds; fruit a very large catkin

[V Max Brown, 2004]



Bigtooth Aspen

Populus grandidentata Michx.

Salicaceae (Willow Family)

Oak Openings Metropark, Lucas County, Ohio

Notes: tree; flowers in catkins (no petals); leaves ovate to elliptical, rarely deltoid, 6-12 rather large teeth (not callous), early leaves usually hairy but glabrous later, petioles flattened laterally; bark mostly smooth; twigs brownish, mostly glabrous; winter buds brownish, glabrous to finely hairy, lateral buds not appressed; spring

[V Max Brown, 2009]



Quaking Aspen

Populus tremuloides Michx.
Salicaceae (Willow Family)
Maumee River Metroparks,
Lucas County, Ohio



Notes: flowers in catkins (no petals); leaves ovate to round with many fine teeth (no protuberance on teeth), petioles flattened; bark white to yellow-green and smooth; twigs slender; winter buds brownish, glabrous, large, lateral buds strongly appressed; spring

[V Max Brown, 2005]



White Willow

Salix alba L. (Introduced)
Salicaceae (Willow Family)
Maumee River Metroparks,
Lucas County, Ohio



Notes: tree, sometimes large; flowers in catkins; leaves alternate, lanceolate, finely serrate, acuminate, bright green above, pale or glaucous and silky beneath, stipules small or absent; bark gray and deeply fissured; twigs hairy, greenish yellow; hybrids and varieties recorded; spring

[V Max Brown, 2008]



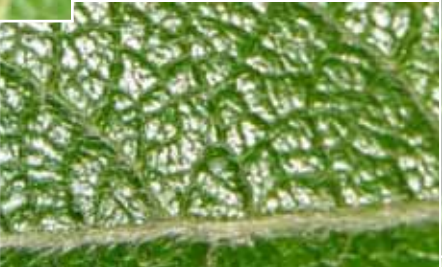
Bebb [Long-Beaked] Willow

Salix bebbiana Sarg.
Salicaceae (Willow Family)

Oak Openings Metropark, Lucas County, Ohio

Notes: mostly a shrub; flowers in catkins; leaves alternate, elliptical-lanceolate to ovate, densely hairy on both sides but particularly whitened beneath, rugose above, veins stand out below, finely serrate to entire; bark greenish to brown; twigs hairys, stipules large, ovate to cordate and toothed; stem and capsules hairy; spring

[V Max Brown, 2008]



Coastal Plain [Ward's] Willow

Salix caroliniana Michx.

Salicaceae (Willow Family)

Alley Springs, Ozark National Scenic Riverways,
Shannon County, Missouri

Notes: shrub to small tree; leaf margin finely
toothed, lower side with silvery gray pubescence,
leaf length 5-9x width, stipules persistent and
broadly ovate; twiglets hairy; common along Ozark
streams (ID tentative)

[V Max Brown, 2006]



Sandbar Willow

Salix interior Rowlee

Salicaceae (Willow Family)

Oak Openings Metropark, Lucas County, Ohio

Notes: mostly a shrub; flowers in catkins, often flowers well into June; leaves alternate, linear (very long and narrow), usually with long hairs early and glabrous later, teeth small and point somewhat outward; bark greenish to brown; twigs slightly hairy, no stipules; usually found with wet feet; spring to early summer (variable, several varieties)

[V Max Brown, 2008]



Shining Willow

Salix lucida Muhl.

Salicaceae (Willow Family)

Oak Openings Metropark, Lucas County, Ohio

Notes: shrub to small tree; flowers in catkins; leaves alternate, lanceolate (very large and shining for a willow), below green but paler, teeth small but even, acuminate to attenuate tip, petiole glands near leaf (on top); bark greenish to brown; twigs and buds mostly shiny brown, twigs mostly glabrous to finely hairy; spring to early summer (variable, several varieties)

[V Max Brown, 2009]



Black Willow

Salix nigra Marsh.
Salicaceae (Willow Family)
University of Toledo Campus; Lucas
County, Ohio

Notes: tree; flowers in catkins; leaves alternate, narrow and lanceolate, glabrous, pale below, finely serrate, leaf often curves toward tip, usually with serrate stipules; bark dark, deeply grooved and scaly; greenish to brown; twigs slender, often yellowish brown to dark brown, and mostly glabrous; winter buds alternate, relatively small; common; spring

[V Max Brown, 2007]



Silky Willow

Salix sericea Marsh.

Salicaceae (Willow Family)

Oak Openings Metropark, Lucas
County, Ohio

Notes: shrub; flowers in catkins; leaves alternate,
lanceolate, glabrous above, silky fine pubescent
beneath, finely serrate; bark greenish to brown;
twigs slender; stem and capsules finely
pubescent; spring

[V Max Brown, 2007]



Weeping Willow

Salix ×sepulcralis Simonkai [*alba* × ?*pendulina*]

(Introduced)

Salicaceae (Willow Family)

Maumee River Metroparks, Lucas County, Ohio

Notes: tree; flowers in catkins; leaves long and narrow with fine teeth, whitened or glaucous beneath, long-pointed, glabrous at maturity, with petiole, sometimes twisted; bark gray, grooved; extremely long end branches and brown twigs hang vertically; buds long and appressed; spring

[V Max Brown, 2006]

