

Order	Common Name	Scientific Name	Characteristics	Location	Grid	Notes
31	Kentucky Yellowwood	<i>Cladrastis lutea</i> (Fabaceae)	<b>Bark:</b> usu multi-trunked 6-12" from ground, smooth grey bark <b>Twig:</b> smooth w/swollen nodes, zig-zag <b>Leaf bud:</b> very fuzzy <b>Leaf:</b> alternate, odd-pinnately compound leaf 6-13", 5-11 (usu 7-9) alternate entire leaflets, obovate w/slight tip, prominent strait (non-branching) side veins; deciduous <b>Flower:</b> showy, 1" white, 5-petals in large, branched, drooping clusters up to 14" long, fragrant, late spring <b>Fruit:</b> 2-4" long flat narrow hairless pod containing 5-6 brown seeds, late summer	Demonstration Vegetable Garden, by creek	K10	50-60 ft; spotty 7 state range in SE USA; good yellow fall color, excellent nectar source for pollinators
32	American Hornbeam	<i>Carpinus caroliniana</i> (Betulaceae)	<b>Bark:</b> short, slender trunk, w/smooth, muscular bark, very light grey <b>Twig:</b> slender, zig-zag, brittle <b>Leaf bud:</b> reddish-brown, pointed, scaly <b>Leaf:</b> alternate, simple, doubly-serrate, elliptic w/ abruptly pointed tip, prominent strait (non-branching) side veins, matte dark blue-green above, paler w/ fuzzy vein angles beneath; deciduous to semi-evergreen <b>Flower:</b> male (green) & female (white) catkins on same tree, early spring <b>Fruit:</b> .25" ribbed nutlet held paired in a cluster with narrow lobed leaf-like bracts	mid-Nature Trail, S of Dene's Pine sculpture	M8	15-30 ft; E USA; aka Ironwood, Blue Beech, or Muscledwood; very dense hard wood ~40lbs/cu ft; not commercially viable due to small size and slow growth, excellent understory tree for dense shade, good yellow or red fall color
33	Sparkleberry	<i>Vaccinium arboreum</i> (Ericaceae)	<b>Bark:</b> thin red-brown bark flakes/shreds <b>Leaf:</b> alternate, simple, entire - (tiny) serrations, ovate-elliptic, leathery, shiny; deciduous <b>Flower:</b> .25" white urn-shaped held in loose clusters, spring <b>Fruit:</b> .25" shiny round black berry in summer, often persisting into winter, inedible	mid-Nature Trail, N of Mtn Laurel	M8	7-30 ft; endemic to rocky slopes in SE USA, usu single trunk with irregular to rounded crown, good red fall color, berry attracts birds
34	Possumhaw Holly	<i>Ilex decidua</i> (Aquifoliaceae)	<b>Bark:</b> smooth, light grey, prominent round lenticels <b>Twig:</b> light-silvery grey, hairless <b>Leaf:</b> alternate, simple, rounded-serrations, 1-3" obovate-narrow elliptic w/blunt tip, matte (not glossy) upper leaf surface, hairy veins underneath; deciduous <b>Flower:</b> inconspicuous, .25" white, 4-5 non-fringed smooth rounded petals, held on slender stalk in clusters at ends of twig spurs, spring <b>Fruit:</b> shiny red drupe in clusters on bare twigs in the fall, often persisting through winter	mid-Nature Trail	M8	5-25 ft, usually shrubby form, native to lowland mixed-broadleaf forests in SE-central USA; spreading crown of stout branches
35	Pawpaw	<i>Asimina triloba</i> (Annonaceae)	<b>Bark:</b> thin, smooth, grey-tan w/warty bumps on mature trees <b>Leaf:</b> alternate, simple, entire, obovate, large 6-12", droop downward, young leaves often finely hairy; deciduous <b>Flower:</b> 1-2" broad bell-shaped, maroon, 6 petals, malodorous, fairly inconspicuous, late spring after leaf-on <b>Fruit:</b> 3-6" oblong to cylindrical fleshy berry, green ripening to yellow then black, fall; edible	Nature Trail, Butterfly House	N8	15-40 ft; low/moist wooded areas in E-central USA; handling fruits can cause skin irritation in some people, good yellow fall color; one of the few hary sp in a tropical/subtropical family

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36	<i>Devil's Walking Stick</i>	<i>Aralia spinosa</i> ( <i>Araliaceae</i> )	<b>Bark:</b> smooth, segmented, thorny, grey-tan, trunk is usually 6 inches or less with limited side branching <b>Leaf:</b> alternate, (bi-) or tri-pinnately compound 15-48" long, 9-15 leaflets per thorny rachis, 2-5" long, ovate, serrated; deciduous <b>Flower:</b> inconspicuous, tiny, white, 5 petals in spherical panicles, summer <b>Fruit:</b> showy .25" juicy purple berry, fall; edible	Trillium Education Garden, S end	N8	10-20 ft; dry to moist woodlands in SE USA in wide range of soil types, thicket forming, attracts birds, aka Hercules Club
37	Red Buckeye	<i>Aesculus pavia</i> ( <i>Hippocastanaceae</i> )	<b>*Bark:</b> lt grey-brown, <i>smooth w/prominent lenticels</i> <b>Leaf:</b> opposite, palmately compound, (5)-7 narrowly elliptic leaflets w/ attenuate tip, margins finely- & <i>unevenly</i> serrated, shiny dark green above, paler & fuzzy underside; deciduous <b>Flower:</b> showy, 1.25" tubular <i>red</i> flower w/4 inequally sized petals held on 4-7" vertical spike, spring <b>Fruit:</b> 1.5-2" round to pear-shaped capsule, thick leathery non-prickly husk containing glossy brown ovoid seeds; seeds are poisonous if ingested	Nature Trail, S of bridge just past Trillium Education Garden	N8	10-15 ft; riparian forests in SE USA, thicket forming, good yellow fall color, hummingbird attractant; <i>*yellow buckeye has scaly/flaky bark</i>
38	Yellow Buckeye	<i>Aesculus flava</i> ( <i>Hippocastanaceae</i> )	<b>*Bark:</b> flaky-scaly, tan-grey <b>Leaf:</b> opposite, palmately compound, (5)-7 narrowly elliptic leaflets w/ attenuate tip, margins finely- & <i>evenly</i> serrated, shiny dark green above, paler & fuzzy underside; deciduous <b>Flower:</b> showy, 1.25" tubular <i>pale yellow</i> flower w/4 inequally sized petals held on 4-7" vertical spike, spring <b>Fruit:</b> 1.5-2" round to pear-shaped capsule, thick leathery non-prickly husk containing glossy brown ovoid seeds; seeds are poisonous if ingested	Nature Trail, S of bridge just past Trillium Education Garden	N8	50-90 ft; Cumberland Plateau bottomlands (mostly in TN & NC), previously <i>A. octandra</i> , one of the first trees to leaf out in spring, yellow - orange fall color, <i>*red buckeye has smooth bark w/prominent lenticels</i>
39	Blackhaw	<i>Viburnum prunifolium</i> ( <i>Adoxaceae</i> )	<b>Young bark:</b> smooth with rough patches <b>Mature bark:</b> platelet or mixed smooth/platelet <b>Twig:</b> glossy green to matte tan, smooth, hairless <b>Leaf:</b> opposite, simple, broadly elliptical, finely serrated, 1.5-3" long; deciduous <b>Flower:</b> .25" white, 5-petal, held in 2-4" corymbs (upright flat-topped clusters), fragrant <b>Fruit:</b> oblong blue-black drupe on short stalk, held in clusters, fall; edible	Nature Trail, S of bridge just past Trillium Education Garden, creek-side path	N8	10-15 ft; moist woodlands in east and central USA, bark and wood often malodorous, good red fall color, attracts birds and butterflies; formerly in <i>Caprifoliaceae</i> - change is based on molecular phylogeny
40	American Beautyberry	<i>Callicarpa americana</i> ( <i>Lamiaceae</i> )	<b>Bark:</b> light grey, very smooth, prominent lenticels, buttressed root flare <b>Twig:</b> 4-sided, green-grey <b>Leaf:</b> opposite, simple, ovate-elliptic, serrated, 3-6", underside may be hairy; deciduous <b>Flower:</b> lavender/pink at nodes, summer <b>Fruit:</b> berry starts green ripening to purple, very showy, late summer/early fall	S end Nature Trail adjacent to bridge	O8	4-10'; moist woodlands in SE USA, Caribbean, & N Mexico; medicinal (stomach ailments), crushed leaves is mosquito repellent; high moisture fruit important food source for more than 40 species of songbirds and a variety of mammals.