

OAGC Exhibitors and Judges School #5

PLANT IDENTIFICATION

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STUDENTS: Test parameters appear on page 9.

SHRUBS	Descriptions
<p>Common or Eastern Ninebark</p> <p><i>Physocarpus opulifolius</i></p> <p>(fī-so-kär' pus op-ū-li-fō' li-us)</p>	<p>Leaves: Alternate, simple, roundish ovate, 1-3" long, half as wide, 3-5 lobed. Buds: usually 5-scaled, brown, basically glabrous. Flowers: White/pink about ¼" dia. In 1-2" corymbs. Habit: Upright spreading shrub up to 10' in spread & height. Leaf Color: green-brown. Culture: Easily transplanted; adapts to difficult situations; full sun or part shade. Native to N. America</p>
<p>Japanese Barberry</p> <p><i>Berberis thunbergii</i></p> <p>(bēr'bēr-is thun-bēr' jē-ī)</p>	<p>Leaves: Alternate, 1/2 to 1" long, oval to oblong and narrowing at base. The straight species has green leaves. <i>B. thunbergii</i> var. <i>atropurpurea</i> cultivar types have reddish purple foliage, <i>B.t.</i> 'Aurea' has vivid yellow leaves. Buds: small, ovid above single spurs, solitary & sessile. Stem: thin and zigzagged. Flowers: small, yellow in mid April-May. Habit: densely branched, rounded 3-6' tall shrub. Native to Japan.</p>
<p>Smokebush, Smoke Tree</p> <p><i>Cotinus coggygria</i></p> <p>(kō-tī'nus ko-gīg'ri-å)</p>	<p>Leaves: alternate, simple, oval, entire bluish-green with somewhat parallel veins. Flower: 1/3", yellow & sparse. The real show is hairs on pedicels & peduncles of the large 6-8" long and wide panicle. These go through color changes; i.e.: the smoky pink or purpley hairs. Habit: Up- right, open, spreading, multi-stemmed shrub. Native to southern Europe.</p>

<p>Golden Vicary Privet</p> <p><i>Ligustrum x vicaryi</i></p> <p>(lī-gus'trum x vi-kār-ē-ī)</p>	<p>Leaves: opposite, simple, entire, oblong, 1-4" long, golden yellow. Flowers: creamy white. Fruit: blue-black to black, round. Habit: dense, multi-stemmed, shrub, vase-shaped 10-12' high. Native to China, Japan, Korea.</p>
<p>Bush Cinquefoil</p> <p><i>Potentilla fruticosa</i></p> <p>(pō-ten-til'å frö-ti-kō-så)</p>	<p>Leaves: Alternate, compound, hand-shaped, green & silky shine. Flowers: 1" dia., yellow, blooms June to frost, some orange to reddish. Habit: Fast growing bushy shrub with upright branches, low rounded outline. 1'-4' high, 2-4' wide. Note: Blooms on new wood, 1'4' tall. There are over 130 cultivars. Native to Europe, US, Asia.</p>
<p>Spirea</p> <p><i>Spirea sp.</i></p> <p>(spi-re'a sp.)</p>	<p>Leaves: alternate, simple, toothed, pointed oval, 1-3" long, new growth is light green. Leaf surface is rarely smooth. Flowers: 5-sepaled, white to purple or rose on new growth. Flat-topped corymbs persist through winter. Habit: 2-3' tall, same width, fine textured, hardy, & deciduous. Many cultivars & complex hybrids exist, most 3' tall, same width. However, some grow to 6'. Native to Japan, Europe and U.S.</p>
<p>Elder, Elderberry</p> <p><i>Sambucus sp.</i></p> <p>(sam-bū'kus sp.)</p>	<p>Leaves: Opposite, compound, usually 3-7 leaflets with serrated margins, some finely cut, leaf color ranges from golden yellow to bright green to purple. Buds: brown with a few scales covering them. Flowers: yellowish white, some have panicles, others flat-topped cymes. Fruit: mostly blackish, some red. Habit: multi-stemmed shrub with arching branches typically 5-12 feet tall. Native to United States and Europe.</p>

<p>Viburnum</p> <p><i>Viburnum</i> sp.</p> <p>(vī-bēr'num sp.)</p>	<p>Leaves: opposite, simple, evergreen to semi-evergreen to deciduous, 3 - 7", oblong, dark green to blue green and textured above, grey to yellow hairy below. Buds: vary from large rusty colored to wooly tan. Flowers: white to pink, with odor from sweet to a stenchy stink in cymes. Fruit: 1/3" long drupe, red, yellow, orange, pink, blue & black. Habit: upright, multi-stemmed, 2-30' tall. Native to N. America, Asia, Europe.</p>
<p>Common Lilac</p> <p><i>Syringa vulgaris</i></p> <p>(si-ring'gå vul-gā'ris)</p>	<p>Leaves: Opposite, simple, ovate 2-5" long, entire, almost bluish green, glabrous, petiole about 1' long. Buds: Usually double terminal. Flowers: Extremely fragrant borne in long panicles usually in pairs. Stem: Stout, lustrous brown, solid white pith. Habit: Grow to 8-15' high with a spread of 6-12'. It is an upright leggy shrub of irregular outline. Usually devoid of lower branches. Native to S. Europe.</p>
<p>TREES</p>	<p>Description</p>
<p>Pussy Willow</p> <p><i>Salix caprea</i></p> <p>(sā'liks kap'rē-å)</p>	<p>Leaves: Alternate, simple, oblong, 2-4" long, 1-2" wide, slightly toothed or nearly entire, gray pubescent below, short petiole. Buds: 1/4"-1/2" long, stout at maturity. Flower: soft & silky, purplish-brown (catkin) Stem: Stout, yellowish to dark brown, pubescent. Native to the U.S.</p>

<p>Weeping Willow</p> <p><i>Salix babylonica</i></p> <p>(sā'liks bab-i-lon'i-kå)</p>	<p>Leaves: Alternate, simple, lanceolate 3-6" long, grayish green beneath. Stem: Long, pendulous, glabrous except at nodes, brown/reddish brown on upper surface. Habit: Grows 30-40', graceful refined tree with a short stout trunk, a broad rounded crown with branches that sweep the ground.</p>
<p>Black Walnut</p> <p><i>Juglans nigra</i></p> <p>(jÖ'glanz nī'grå)</p>	<p>Leaves: Alternate, pinnately compound, up to 24" long, 15-23 leaflets & terminal one often missing, leaves fragrant when crushed. Buds: Silky downy. Stem: Stout, densely gray, bitter to taste. Habit: Large tree up to 75', crown oval to rounded & somewhat open. Native to U.S.</p>
<p>London Planetree</p> <p>Platanus X acerifolia</p> <p>(plat' å-nus a-ser-ē-fo'lē-å)</p>	<p>Leaves: Alternate, 6-7" long to 10" w., lobed, petiole 2-4" long. Fruit: 1", round & bristly, usually 2 per stalk. Bark: Olive green/creamy, exfoliating (a great asset) Habit: 70-100' usually, pyramidal in youth, wide open & spreading later. Native to Europe.</p>
<p>Baldcypress</p> <p><i>Taxodium distichum</i></p> <p>(taks-ō'di-um dis'ti-kum)</p>	<p>Leaves: Spirally arranged, 2 ranked, narrow & short & very fine. Flowers: Monoecious, 4-5" long panicles. Fruit: Cones ½-1" globular, green to purple & short-stalked. Habit: Lofty <u>deciduous</u> conifer of slender pyramidal shape in youth, 50-70' high. Trunk is stout, straight and buttressed at the base. Native to U.S.</p>

<p>Washington Hawthorn</p> <p><i>Crataegus phaenopyrum</i></p> <p>(krå-tē'gus fē-nō'pī-rum)</p>	<p>Leaves: Alternate, simple, broad to triangular-ovate, 1-3" long $\frac{3}{4}$-2 $\frac{1}{4}$" wide, 3-5 lobed, pale beneath, petiole about 1" long. Stem: Brown, slender with very slender 1-3" long thorns. Flowers: White with 20 stamens & pink anthers. Fruit: bright red, $\frac{1}{4}$" dia. Habit: Grows 25-30' tall with a 20-25' spread; Foliage reddish-purple when unfolding, turning to lustrous green at maturity. Native to southern U.S.</p>
<p>Ginkgo, Maidenhair Tree</p> <p><i>Ginkgo biloba</i></p> <p>(gingk'gō bī-lō'bå)</p>	<p>Leaves: Alternate, simple, in clusters of 3-5 or a single on long shoots, fan shaped, bright green, glabrous, up to 3.5"w.x 3.5"l.with a 1.5"-3.5" petiole. Stem: At maturity, gray with stringy, peeling bark with prominent blackish spurs. Habit: 50-80'tall, 40-50' wide usually. Pyramidal when young, in old age becomes wide-spreading with large, massive picturesque branches; gets better with age. Native to E. China.</p>
<p>HERBACEOUS PLANTS</p>	<p>Descriptions</p>
<p>Periwinkle, Myrtle</p> <p><i>Vinca minor</i></p> <p>(ving'kå mī'nôr)</p>	<p>Leaves: opposite, dark evergreen, lanceolate to ovate, 1 - 2" long on slender green stems. Flowers: sparse, commonly blue, some purple & white, five petals, solitary, on long pedicles in leaf axils. Habit: prostrate, fine textured 6-8" ground cover. There are varieties with white or yellow variegated leaves. Native to Europe & W. Asia.</p>

<p>Love in a Mist</p> <p><i>Nigella damascena</i></p> <p>(nī-jel'å dam-å-sē'nå)</p>	<p>An annual: Leaves: Finely textured that are pinnately to palmately parted.</p> <p>Flowers: Solitary blue, 1"-1.5" at the end of stems, surrounded at base by finely cut foliage. Fruit: Decorative seed capsule. Habit: 18" tall, erect, many branched annual. Easy to grow.</p> <p>Native to S. Europe.</p>
<p>Clustered Bellflower</p> <p><i>Campanula glomerata</i></p> <p>kam-pan'ū-lå glom'er-ā-tå)</p>	<p>Leaves: Alternate, 4-5" long. Flowers: Blue/purple, borne in dense axillary or terminal clusters; individual flowers are upward facing, bell-shaped. Blooms: late spring to early summer. Habit: 1-2' tall, erect plant. Can survive wet soils & partial shade. Native to Europe.</p>
<p>Speedwell</p> <p><i>Veronica longifolia</i></p> <p>(ve-ron'i-kå lon'ji-fō-lē-å)</p>	<p>Leaves: Opposite & dark green. Lower leaves oblong: upper ones lanceolate.</p> <p>Flowers: ¼", blue, packed into 6" racemes. Habit: 12-15" tall clump with many ascending stems. Foliage 6" tall.</p> <p>Native to Russia.</p>
<p>Globe Centaurea</p> <p><i>Centaurea macrocephala</i></p> <p>(sen-tâ-rē'å mak-rō-sef'a-lå)</p>	<p>Leaves: Alternate, ovate-lanceolate to elliptic with undulating leaf margin.</p> <p>Stems: pubescent. Flowers: Bright yellow, thistle-looking. Habit: 3-4' tall, rather large. Native to the Caucasus.</p>
<p>Black-eyed Susan</p> <p><i>Rudbeckia hirta</i></p> <p>(rud-bek'i-å hēr'tå)</p>	<p>Leaves: Alternate, lanceolate, mostly basal, covered by coarse hairs.</p> <p>Flowers: up to 5" daisy-like, golden-yellow rays surrounding brown dome-shaped disc florets. Ray florets now extend to oranges, reds, and browns.</p> <p>Habit: Upright perennial, annual, or biennial, 18" x 30". Some are tetraploid cultivars having larger flower heads than in the wild. Native to U.S.</p>

<p>Common Foxglove</p> <p><i>Digitalis purpurea</i></p> <p>(dij-i-tā'lis pěr-pū'rē-å)</p>	<p>Leaves: Alternate, rugose (wrinkled), somewhat downy. Flowers: Large & pendulous borne on one long raceme. Corolla 3" long. Habit: 2-5' erect plant with basal leaves. Blooms June-July, in pinks purples and whites. Native to Europe & N. Africa.</p>
<p>Pansy</p> <p><i>Viola x wittrockiana</i></p> <p>(vī'ō-lå wit-rock-i-ā'nå)</p>	<p>An annual - Leaves: Basal leaves round; stem leaves ovate to oblong, 1.5-2". Flowers: 1-2" across, overlapping petals usually of 3 colors where each flower resembles a smiling face. Habit: 4-8" round. Blooms spring to early summer. Native to Europe, Africa, Asia.</p>
<p>Maltese Cross</p> <p><i>Lychnis chalcedonica</i></p> <p>(lik'nis chal-sē-don'i-kå)</p>	<p>Leaves: Opposite, ovate to lanceolate 2-4" long. Flowers: Scarlet, dense terminal head composed of 10-50 florets in a 3-4" cluster. Habit: 2-3' erect plant. Native to Russia.</p>
<p>Ostrich Fern</p> <p><i>Matteuccia pensylvanica</i></p> <p>(mat-tō'si-å pen-sil-vā'ni-kå)</p>	<p>Leaves (fronds): Outer ones are sterile and very lacy. Inner fronds are fertile and bear spores. Petioles are 4-sided. Flowers: Flowerless. Habit: In cultivated sites: growth to 4'. Needs adequate moisture so soil does not dry out. Native to Eastern U.S.</p>
<p>Ornamental Sweet Potato Vine</p> <p><i>Ipomea batatas</i></p> <p>(i-pō-mē'å bå-tā'tas)</p>	<p>Leaves: 'Black Heart' has dark purple, palmately shaped leaves that produce edible tubers. 'Margarita' has chartreuse tri-lobed leaves. 'Pink Frost' has small pink, white and green variegated maple-like leaves. Flowers: Trumpet-shaped, lavender-pale purple. Habit: 6-12" trailing vine. Native to S. America.</p>

<p>Moss Rose</p> <p><i>Portulaca grandiflora</i></p> <p>(pōr-tū-lā'kå gran-di-flō'rå)</p>	<p>Annual-Leaves: Prostrate or ascending 1" or less long, very succulent.</p> <p>Flowers: 1" or more across in bright colors, sepals broad, singles or doubles. Flowers close in mid-afternoon. Habit: 6-8" spreading plant. Likes sun, hot, and dry. Native to Brazil.</p>
<p>Delphinium</p> <p><i>Delphinium elatum</i></p> <p>(del-fin'i-um ē-lā'tum)</p>	<p>Leaves: Large, palmately 3-7 leaflets.</p> <p>Flowers: Showy racemes or spikes usually blue, but can be red, pink, white, violet and yellow. Five sepals, but the posterior one prolonged into a spur. Habit: 4-6' erect plant that can need staking. Note: Delphiniums are perennials that generally last about 5 years. Young plants and seeds can be poisonous. Native to Europe.</p>
<p>Larkspur</p> <p><i>Consolida ambigua</i></p> <p>(kon-sol'i-då am-big'ū-å)</p>	<p>An Annual: Leaves: Very ferny fine foliage. Flowers: Slightly smaller than the perennial Delphinium. Habit: 2-4' erect plant. Note: This plant is usually referred to as the annual delphinium. Plant easily reseeds if not deadheaded. Native to Europe.</p>

Pronunciation Key		
a = hat	e = set	o = hot
ā = gate	ē = he	ō = rote
ä = father	ë = sir	ö = move
â = mall	î = tin	ô = orr
ã = hare	ï = sign	u = cub
å = familiar		û = cute

TEST PARAMETERS

Students must learn both common and botanical names (genus & specific epithet(species)). The first letter of the genus is always capitalized; the first letter of the specific epithet is always lower case.

For some plants there may not be a specific epithet because there is more than one species of that plant that to which is being referred.

In that case, you will see species or "sp." after the genus. When studying and writing the botanical name, please include both the genus and species or sp. For example - *Dianthus* sp.

On the plant test, students will be asked to **identify 20 plants**. They will NOT be in the same order as on this list.

Scoring as follows: Total possible points= 5 per plant

genus = one point i.e. *Acer*

specific epithet (species) = one point i.e. *negundo*

common name = two points i.e. Boxelder

correct spelling = ½ point each common & botanical name

Definitions

Corymb (kôr'imb)- a flat topped or convex inflorescence

Cyme (sī m) - Flat-topped flower cluster

Glabrous - not hairy; glabrous surface need not be smooth

Glaucous - covered with a waxy bloom or whitish material

Lanceolate - lance like

Margin - edge of leaf

Monoecious - having both sexes on the same plant

Ovate - oval like

Ovoid - a solid that is 3-dimensional egg shaped

Panicle- loose, irregular compound flower cluster

Pedicle - The stalk of a flower or fruit

Pinnate - compounded with leaflets long each side of a common axis; feather-like

Pubescent - covered with short soft hairs

Raceme - a simple indeterminate inflorescence with pedicel led flowers

Sessile - without a stalk

Tetraploid - having 4 sets of chromosomes; 2 times usual

References

American Nurseryman's *New Pronouncing Dictionary of Plant Names*. American Nurseryman Publishing Company, Chicago, Illinois. ISBN 1-887632-50-6

Dirr, Michael 1998. *Manual of Woody Landscape Plants. Their Identification, Ornamental Characteristics, Culture, Propagation and Uses*. Stipes Publishing Company, Champaign, Illinois. ISBN 0-87563-795-7

Still, Steven 1994. *Manual of Herbaceous Ornamental Plants*. Stipes Publishing Company, Champaign, Illinois. ISBN 0-87563-433-8

ONLINE interactive multimedia site with cultural information (local & nationally) pictures, descriptions, and pronunciation sound clips.

<http://webgarden.osu.edu/>