

Sandy Mush Herb Nursery

Supplement to Handbook 9 - 2017

ABBREVIATIONS: v., var. = variety; cv. or 'plant name' = cultivar; sp. = species; Z= USDA climate zone, to our best estimate.

Botanic name=Genus, species, Var. or 'Cv.' - Common Name: mature height; in feet [*] or inches ["], height x width; description, growth Zone, Grow Guide

Abutilon x hybridum - Parlor/Flowering Maple: 4'-5'; clear, bright yellow bell-shaped flrs; good for pots and frost-free garden. Z 9-10 1,4,5,7,10,11,15

Aesculus parviflora - Bottlebrush Buckeye: 5'-10'; southeastern native; shrub forms small colonies; dark green compound leaves, white candle-like blooms; golden fall color. Z 5-8 1,4,5,6,7,10,11,13

Agapanthus africanus - Lily of the Nile: strap-like leaves 2', flower stalks to 5', with 6-8" balls of blue or white for 2 months. Z 7-10 1,4,5,6,7,10,11,15

Allium cernuum - Nodding Onion: 9"; lavender-pink flower heads for a cheerful addition to the low border and rock garden. E US Z 4-8 1,4,5,7,10,13

ANEMONE - Windflower: Autumn flowering on tall stems above low basal leaves; cut flower; sun / partial shade; pollinators love these. Z 5-8 1,4,5,7,8,10,11,13

'Victor Jones': 25"; soft, single pink.

hupehensis var. *japonica* 'Pamina': 24"; deep rosy red semi-double flowers

xhybrida 'Alice': 36"; bright clear pink double flowers atop wiry stems

'Andrea Atkinson': 28"-32"; long-blooming pure white, dark green lvs.

'Elegans': 30"; single pink

'Honorine Jobert': 30"; glowing, single white flowers.

'Whirlwind': 36"; white semi-dbl flowers; dense dark-green foliage.

Anthriscus sylvestris 'Ravenswing' - Hardy Chervil: 2'; finely filigreed leaves are purple with hint of bronze; colorful basal growth showy in winter; flower stems 30-36" topped with fragrant white umbels. Z 6-9 1,4,5,6,7,8,11,14

Aquilegia alpina: 18"; large bright blue nodding blooms. Z 5-8 1,5,6,11,13

Arisaema consanguineum - Himalayan Cobra Lily: 30"; giant Jack-in-the-pulpit. Z 5-9 1,4,5,6,1,10,13

Aronia arbutifolia - Red Chokeberry: 7'; vibrant red leaves in autumn, along with vivid red fruit. E N America

Aronia melanocarpa - Black Chokeberry: 6'; shiny dark green leaves, 3" long, on an excellent wetland plant adaptable to dry locations; white flowers, purple-black 1/2" diam fruit for jellies & the birds; forms colonies; wine-red autumn color. E N America Z 4-7 1,4,5,6,7,8,11,13/both

Asclepias exaltata - Tall Milkweed: 4'; native ME to MN, south through IA, IL, to TN & mtns of GA, thence north through upland woodlands; loose flower head with individual creamy florets dangling on inch long threads; attracts lots of butterflies. Z 3-7 1,4,5,6,7,10,11,13

Asclepias speciosa - Showy Milkweed: to 4'; pink flrs, food for butterflies & their larvae; spreads by runners & seed. Z 3-10 1,5,6,7,11,13

ASTER: This collection is native to NE US & Canada south through the Appalachian mountains. Z 3-8 1,4,5,6,7,8,9,10,11,12,13 for all

curtisii: 3'; blue daisy flowers with white centers mirror the skies of autumn.

lowerensis: 3'; pale lavender-blue daisy flr heads on lax stems; heart-shaped leaves.

patens - **Early Blue Aster:** 48"; delicate flowers on slender arching stems are the earliest here - July, usually, and keep on blooming through September.

pilosus - **Tall White A.:** 3'; airy, open growth with multitudinous 1/2" single daisy flowers, a sure sign that autumn is in full swing.

Astilbe biternata - False Goatsbeard: 3'-4'; creamy flowers in 6"-8" plumes on supple golden brown stems grace rich woodlands in early summer; finely-cut foliage; quite like *Aruncus dioicus*; native to WNC. Z 6-8 1,4,5,6,9,10,13

ASTILBE- Excellent in containers as well as in the border; require rich soil & ample moisture. Z (4)5-8(9) 1,4,5,6,7,9,10,13

xchinensis 'Milk & Honey': 30"; plummy white flowers turn pale pink as they age.

'Rise & Shine': 24"-30"; clear pink pyramidal plumes, dark green foliage.

'Maggie Daley': 30"; lavender-purple plumes, shiny green foliage.

'Visions': 12"-16"; mounding dark bronze-green shiny foliage; lilac-purple flrs.

japonica 'Elisabeth van Veen': 24"; raspberry purple flrs, shiny dark foliage.

x 'Sister Theresa': 24"; stout grower with dense salmon-pink plumes; cut foliage.

Baptisia sphaerocarpa x alba 'Carolina Moonlight': 18"; creamy yellow racemes of pea-like flrs on branched blue green foliage. Z 4-8 1,4,5,6,10,11,13

BOG:

Eleocharis acicularis - Needle Spike Rush: 3"; perfect ground element for containers & warm wetlands; water-lover. N Am, Eur, Asia Z 7-9 1,5,6,11,14

Juncus inflexus 'Blue Arrow': 2-3'; fully blue form adaptable to dry & wet conditions in the landscape; fine in containers. Z 5-9 1,5,6,11,13/both juncus

Brunnera macrophylla 'Hadspen Cream': 18"; leaves edged in cream; blue flowers. Z 3-8 1,4,5,7,10,13

Buxus harlandii: 2-3'; 1/2" w x 2 1/2" long dark green lvs; tight mound. Z 5-7

Buxus suffruticosa 'Clem's Cabin': 5' x 4'; compact mounding dark green growth; first planted circa 1930 at the French Broad River Garden Club's log cabin in Asheville NC. Z 5-8 1,4,5,6,10,11,13 for both *Buxus*

Calycanthus 'Athens': 5'-6'; pale yellow, fruity-fragrant 1 1/2" flowers on this sweetshrub. Z 5-8 1,4,5,6,7,8,10,11,13



Campanula punctata 'Rubriflora': 10"; ruby flrs droop on tall stems. Z 6-8/14

Campanula rotundifolia - Olympica Bluebell: 24"; serrated dk green lvs; large lavender-blue bells. Z 3-8 1,4,5,6,7,8,11,13 both

Cardamine concatenata aka Dentaria laciniata - Cut-leaf Toothwort: 3-10"; among the earliest flowers here; deeply lobed & cut leaves with delicate bell shaped pinkish blooms. Z 4-7 1,5,6,7,9,10,11,13

Carissa macrocarpa 'Nana' - Dwarf Natal Plum: 1-2'; slow growing evergreen shrub with dark green oval leaves stacked tightly on stems; blooms late winter; flowers white with 2' petals reminiscent of starfish; sweet fragrance of citrus & gardenia; bonsai subject. Z 8-10 1,5,7,10,15

Carpinus betulus - European Hornbeam: 30'; dark green, serrated lvs 1"x5"; yellow in fall; bark smooth, gray, fluted. Z 4-8 1,4,5,6,7,8,10,11,13/both

Carpinus caroliniana - American Hornbeam, Muscledwood: 20'-30'; serrated lvs; smooth blue-grey ridged bark shows off the copper-toned fall color. Z 3-9

Ceanothus americanus - New Jersey Tea: 3'; gently spreading shrub, glossy leaves, white fluffy flowers. Z 3-9 1,4,6,10,13

CHAENOMELES - Flowering Quince: 4'x6'; many-branched shrubs bearing brilliant flowers in early spring and lemon-sized fruit late in summer, perfect for jams & jellies. Z 5-8 1,4,5,6,7,10,11,13

japonica 'Christmas Cheer': deep red blooms early, in spite of sleet and snow.

speciosa 'Alba': white flowers sparkle in early spring.

x superba/speciosa 'Cameo': pale pink to peach, double double, flowers; late spring.

Chionanthus virginicus - Fringe Tree: 15'; dramatic panicles of white flrs, fragrant; lvs gold in fall. Z 4-8 1,4,5,6,7,8,10,11,13

Chrysopsis/Heterotheca villosa - Hairy Golden Aster: 3'-5'; lvs long & narrow; flrs rich yellow, autumn. E US Z 4-8 1,4,5,6,7,8,9,10,11,12,13

Cimicifuga simplex - Autumn Bugbane: 3'-5'; strong black tall stems topped with white candle-like bloom; dark green cutleaf foliage. Z 5-8 1,4,5,6,9,10,13

Clethra alnifolia 'Sixteen Candles': 3'; compact selection from C. 'Hummingbird sdlg, w/larger fragrant racemes of white flowers. Z 5-8 1,4,5,6,7,10,11,13

CONIFERS: The many colors & textures enhance the garden & holiday decorations. 1,4,5,6,7,11,13 - all except as noted:

Chamaecyparis lawsoniana 'aff Van Pelts': 15'-25'; elegant steel blue fan-like foliage, dense, fast, columnar growth. Z 5-8

laws. aurea nana 'Golden Candles': 15'-20"; pyramidal golden form. Z 5-8

Ch. nootkatensis 'Lutea': 30'x35'; bright golden-yellow; narrow profile. Z 4-8.

'Van den Akker': 30'h x 4'; narrow form of weeping Alaskan cedar; resembles dark green arrow in the garden. Z 4-8

'Variegata': 35'-40"; creamy white new tips on dark green fan-foliage. Z 4-7

Ch. obtusa 'Blue Feathers': 3'-4'; mound of twisted, soft, blue green foliage. Z 4-8

'Tetragona Aurea': 4'x2'; bronze-gold, fern-like foliage on erect plant; in full sun the foliage is gold dusted and in shade, rich green with a hint of blue. Z 5-7

Ch. pisifera 'Aurecens': 2'x2'; foliage muted green with copper-yellow tips, winter color is a brighter green-yellow. Z 5-8

'Filifera Mops': 6'; accent plant; golden strings of foliage in mounds. Z 5-8

'Gold Dust': 18"-18"; our 15 year old plant remains an 18"x18" globe of dark green with flashes of gold. Z 5-7

'Squarrosa Dumosa Boulevard': 15'-18"; gray mixed with blue in puffy dense foliage; cone shaped. Z 4-8

Cunninghamia lanceolata v. konishii: 2' plus; dark green flat needles are, at 1", half the size of *lanceolata*. Z 7-9

glauca - **Blue China Fir:** 50' - 60'; irregularly growing evergreen with sharp-pointed glaucous needles; blue foliage is stunning. Z 5-9

x Cupressocyparis leylandii 'Golconda': 30'-40"; green-gold of summer turns bright gold in winter, just in time for holiday decorations. Z 6-8

'Gold Nugget': 30"; golden foliage sprays on open pyramidal form. Z 6-9

'Silver Dust': 40"; grey-green foliage suffused with white; rapid grower. Z 4-8

Cupressus arizonica glabra 'Blue Ice': 25"; dark red stems bear silvery blue flattened foliage in conical structure. With protection, can survive Z 6, otherwise Z 7-9 ..14

Cupressus arizonica 'Carolina Sapphire': 20"; bright blue-grey foliage of spring shows off the tiny yellow cones; slightly mounding growth. Z 7-9

Cupressus az. 'Limelight': golden form of above.

Juniperus chinensis 'Shimpaku': 6'x5'; dense, nearly congested, dark green growth forms vase-like shape; very slow growth. Z 4-8 ..13

Juniperus horizontalis 'Lime Glow': 12"x36"; mounding form; gold bronze in winter. Z 3-9

Taxodium ascendens - Pond Cypress: 75'; columnar form; fine bark. Z 7-10..14

Thuja occidentalis 'DeGroot's Spire': 25'-30' dark green, 2' wide, spear of densely twisted foliage; excellent for containers. Z 5-8 ..13

Thuja occidentalis 'Emerald Green': 35'-40"; vibrant green, compact foliage, rapid growth; adapts well to shearing for hedges. Z 5-8

'Ohlendorffii': 2'-3'; juvenile foliage in vertical green & bronze ropes. Z 4-8

'Rosenthalii': 4'-10'; dense dark blue-green narrow form. Z 4-8

'Wansdyke Silver': 40'x20"; random creamy variegation; conical form. Z 4-8

Thuja standishii - Japanese Arbor-vitae: 20'-30'; fast grower, dark green, conical form. Z 5-7

Thujopsis dolobrata 'Aurecens': 25'; fingered fans of scale-like evergreen foliage turn rich golden for winter; billowy irregular growth habit. Z 6-8 ..13, all

'Latifolia': 25"; leaves dark green in semi-vertical sprays.

'Variegata': 25'-30"; lvs emerald green with white, year-round; light shade.

CORNUS - Dogwood: Z 4-8 1,4,5,6,7,8,10,13 for all *Cornus*

alba 'Argenteo-marginata': 6'; silver-edged lvs; bright red stems in winter.

amomum - Silky Dogwood: 10'x10'; rounded, multi-stemmed form with purple-brown winter twigs; leaves rounded elliptical, to 6", dull green above with gray silky hairs beneath; red-purple fall color; native E U.S.

sanguinea 'Winter Flame': 5-6'; in winter, stems are orange-yellow blending to pink then to red at tips; multiple stems make 4' wide bush; golden-yellow in fall. Z 4-7

Corydalis sp. 'Blackberry Wine': 10"-12"; lavender-purple fragrant flrs spring & in early fall; blue-green foliage is fernlike; shade. Z 6-9 1,4,5,6,7,8,10,13

Corylus avellana 'Contorta' - Harry Lauder's Walking Stick, Contorted European Filbert: 8'x8'; twisting stems produce a dazzling show in winter; in early spring a plethora of 3" catkins drips from each branch; fine in bouquets, along with *Cornus mas*, and red twig dogwood. Z 4-8 1,4,5,6,7,8,10,11,13

Cotinus coggygria 'Purpureus' - Purple Smoke Bush: 10'-12'; full sun enhances the deep purple hue of the oval leaves; flowers a pale smoky lavender in late summer. S Eur - Central China Z 5-8 1,4,5,6,7,8,10,11,13

Crococsmia x crocosmiiflora 'George Davidson': 18"-24"; delicate yellow flowers on gently arching stems; good cut flower. Z 5-8

'Norwich Canary': 20"; 1 1/2" clear pale golden yellow flowers hang in profusion from 6"-8" horizontal spikes. Z 5-8 1,4,5,6,7,8,10,11,13/both

Cydonia oblonga - Tree Quince: 12'-15'; compact tree, lvs dark green; yellow fruit is size of large apple, late; jelly & jam. Z 5-9 1,4,5,6,7,8,10,11,13

Dicentra cucullaria - Dutchman's Breeches, White Hearts: 8"-10"; early flowering eastern U.S. native; delicate fern like foliage is blue-gray and shows off the small white heart-shaped blooms. Z 5-8 1,5,6,7,10,13

DISPOROPSIS: these close relatives of the Solomon Seals (*Polygonatum*) do best in the same sorts of woodland settings, forming dense matting colonies in humus rich soil; they have lustrous evergreen leaves ranging from slender to broad; creamy white bell flowers followed by showy fleshy fruit. E Asia Z 5-8 1,4,5,6,7,8,10,11,13

arisanensis: 10-12"; fast growth into dense colonies; dark green leaves.

fusca-picta: 8-10"; broad, light green leaves; adapts to cool sunny areas.

pernyi: 12"; slender leaves on shiny arching stems.

Disporum cantoniense 'Night Heron': 24"; dramatic dark purple foliage with pendulous yellow bells heralds early spring. Z 5-10 1,4,5,6,7,8,10,11,13/both

Disporum lanuginosum - Yellow Mandarin: 24"-36"; native to eastern US woodlands; crinkly leaves above dangling pairs of flrs. Z 5-9

Dodecatheon meadia - Shooting Star: 18"; purple, pink or cream flowers shoot above rosettes of primrose-like leaves in early spring; grows best in rich moist woodland areas; native. Z 3-8 1,4,5,6,7,9,10,13

Elephantopus tomentosus: 3"-15"; dark green, rough surfaced leaves form low rosettes producing 10" stalks of sparkling lavender blue rayed flowers in midsummer. Z 5-8 1,4,5,6,7,10,11,13

EPIMEDIUM: Z 5-8 1,5,6,7,9,10,13

grandiflorum 'Rose Queen': 12"; generously large flowers are pink with white inside layer; densely spreading habit makes this a fine groundcover.

grandiflorum 'Saxton's Purple': 8"; purple and white blooms are large & showy in early spring; foliage in autumn is burgundy red.

x perralderianum 'Weihestephan': 12"; a gently spreading type with dark green leaves and good-sized yellowish blooms.

x perralchicum 'Frohneiten': 10"; pale yellow blooms; finely toothed foliage has reddish coloration in autumn.

x perralchicum 'Wisley': 6-8"; unusual round orange-yellow flowers; smooth thick leaves are shiny green early turning bronze-green in winter; leaves & flowers grow on wiry stems. Z 5-9

x warleyense: 10"-12"; early spring flowers are yellow with copper-orange centers; dark green foliage turns to bronze through the winter.

x warleyense 'Orange Queen': as above, with tinges of red.

Eryngium yuccifolium - Rattlesnake-Master: 4'-5'; spiny basal leaves sword-shaped to 3' long; round thistle-like flowers white to pale blue; US native. Z 4-8

Euonymus americanus - Hearts-a-Busting: 5'-6'; slender green branches and stems carry narrow dark green leaves; as fruit ripens, the rough yellow hulls split revealing bright red shiny seed. Z 5-8 1,4,5,6,7,10,13

Euonymus japonica 'Rykujo': 8"x4"; miniature plant looks a bit like a shaggy gnome; dark green leaves have yellow & white variegation and lie scale-like in tight formation; excellent for dish gardens, & tiny spaces. Z 6-9 1,4,5,6,7,11,14

Eupatorium purpureum cv Dwarf Joe Pye Weed: 2 1/2'; lavender-purple flowers grace tightly mounded multi-stemmed plant. Z 4-8

Eupatorium rugosum - White Snakeroot: 2'-3'; plant for moist, well-drained shady gardens; shiny brown stems, dark green heart-shaped leaves, topped by 4" wide fluffy clusters of tiny white flowers. Z 4-8 1,4,5,6,7,10,11,13/both

x Fatshedera lizei 'Anna Mikkels', 'Media Picta', 'Monstrosa Variegata', 'Aureomarginata' - Bush Ivy: 6'-8"; this name-confused plant is a sprawling shrub-vine, good as a conservatory plant in cold areas for its 8" wide, 5-lobed green leaves overlaid with gold and chartreuse. Z 7-9 1,4,5,6,7,8,9,10,11,14

x Fatshedera japonica 'Pia' - Tree Ivy: as above, except that the leaves are solid green and growth tends to be more tree-like.

Filipendula purpurea 'Elegans': 15"; a meadowsweet growing in mounds of fine-cut foliage; pink flowerheads. Z 3-7 1,4,5,6,7,8,10,11,13

FERN: *Athyrium pycnocarpon* - Glade F.: 2-3'; narrow, pointed fronds, turn russet in autumn; moist wooded areas. Z 4-8 1,5,6,7,9,10,11,13

FORSYTHIA: Grow guide for all - 1,4,5,6,7,8,10,11,13

'Tremonia' - Cut Leaf F.: 6'-7'x4'-5'; bright yellow flowers late in forsythia season on this many-branched shrub with deeply incised leaves. Z 5-8

koreana 'Ilgwang' aka 'Sunlight': the yellow of early spring flowers is replicated in the irregular pattern of bright yellow on rich green leaves. Z 5-9

viridissima koreana 'Kumson': 4'; bright white veins on dark green glossy leaves; arching growth bears glorious yellow flowers in spring. Z 5-9

Fuchsia procumbens 'Variegata' - Creeping F.: 2"; grey-green & white dime-sized leaves on long trailing stems; red flowers. Z 7-9 1,4,5,7,10,14

Galium boreale - Northern/White Bedstraw: 1"; flrs white in showy terminal panicles; tendrils of foliage form a mat; N Amer, Eur, Asia Z 2-8 1,5,7,11,13

HARDY GERANIUMS: 1,4,5,7,10,11,13 for all

himalayense 'Derrick Cook': 16"; white 2" flrs with purple veins, summer through until autumn. Z 4-8

maculatum 'Espresso': 12"-15"; tight mounds of chocolate brown & purple foliage bear 1 1/2" lavender flowers; good in sun, tolerates light shade & damp soil. Z 5-7

phaeum 'Lavender Pinwheel': 12"-15"; lovely pale lavender blooms grace the colorful mounding foliage of this European introduction. Z 4-8

x pratense 'Brookside': 12"-15"; large bright, deep blue flowers with white eyes; heavy bloom in spring with lighter displays through autumn. Z 4-8

vlassovianum: 10"-12"; grey-green felted leaves have scalloped edges; flowers lavender-purple in early spring. Z 4-8

Gillenia trifoliata aka *portanthus* - Fawn's Breath, Bowman's Root: 3'; delicate 5 petaled white flowers flutter in shady areas; rich woodlands of East coast. Z 4-8 1,4,5,6,7,10,11,13

GRASS: Z 3-8 1,4,5,6,7,10,11,13 for all

Cymophyllus (*Carex fraserianus* - Fraser's Sedge: 8"-10"; dark green 2"x8" evergreen glossy lvs, mounding, white brushy flr spikes. Z 6-8 Appalachian native

Luzula acuminata - Wood Rush: to 6"; North Am native, earliest blooms, mounding grass-like leaves hairy, golden-bronze in winter.

Luzula sylvatica 'Aureo-marginata': 10"; shiny 3/4" leaf blades w/golden edges; early spring tassel blooms. Z 5-8

Hamamelis - Witch hazel: Z 4-9 1,4,5,6,7,10,13/all

mollis - Chinese w-h: 10'h, 4'w; narrow, open structure; fragrant flowers first open here in December with inch long yellow petals fluttering through rain, sleet, hail & snow, well into March.

vernalis: 10"-12"; blooms late winter/early spring; similar to *H. virginiana*; growth upright; bright yellow fall color; native to south central US.

x 'Arnold's Promise': narrow (6"x12") vase shape; sweetly scented golden flowers late winter.

x 'Diane': narrow profile; red-orange flrs December through January.

x 'Feuerzauber' aka 'Firecracker': copper-red-orange thread-like flrs.

x 'Jelena': broad profile; copper-bronze flowers.

x 'Primavera': vase shape; very fragrant lemon-yellow flowers.

x 'Sunburst': narrow vase shape; lemon yellow flrs late February, fragrant.

Helleborus purpurascens: 12"; showy six-lobed leaves; flowers purple on outside and greenish-purple inside; from Eastern Europe. Z 5-7 1,4,5,6,7,10,13

Heuchera villosa 'Atropurpurea' - Maple-leaved Alumroot: 10"; strong grower, 5" leaf is burgundy hue, lots of white flrs late summer. Z 5-8

Hosta venusta: 3-5"; miniature with dark green leaves, lavender flowers on 6" stalks. China Z 5-8 1,4,6,7,9,10,13

HYDRANGEA: Cut old stems to the ground after flowering to thin and shape the bush without losing next season's flower buds. In general, pink cultivars need alkaline soil & blue need acid soil. As it takes time and considerable effort to alter soil ph, we note that most hydrangeas have quite stable and enjoyable colors, as they are. Z 6-8 1,4,5,6,7,8,10,11,13

macrophylla 'Dooley': 5'x5'; reliable, rich blue and heavy flowering form; lush dark green foliage.

'Garten-Baudirektor Kuhnert': 7'x4'; bright robin's egg blue mophead bloom fades to purplish blue; best in acid soil.

'Mariesii Lilacina': 5'x5'; lace-cap, color ranges from pink to lavender-blue.

'Merritt's Pink': 5'x5'; clear pale pink, large flower heads year after year.

paniculata 'Yuki Gessho': 6'x6'; lvs splashed with white; flrs white panicles. Japan

serrata 'Preziosa': 3'-4'; good-sized flowerheads are white suffused with pink at first, later turning lilac-pink and ruby red.

Hypoxis hirsuta - Yellow Star-grass: 3"-6"; six-petal 1" bright yellow blooms for the woodland garden. Z 3-9 1,4,5,6,7,10,11,13

Iboza riparia - African Moth Plant: 6'; medicinal plant from East Africa; winter blooms are fluffy white; leaves thick & fragrant. Z 9+ 1,5,6,7,10,11,15

ILEX - Holly: All except *verticillata* are the familiar evergreen. *Verticillata*, aka Winterberry, cultivars are deciduous. In order for the female plants to produce berries, there must be a male in the neighborhood! The males produce pollen - a delight for many pollinators. The fruit is excellent bird food. Z 4-8 1,4,5,6,7,10,11,13 except as noted.

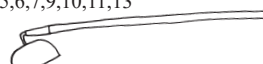
cornuta x aquifolium 'Nellie R. Stevens': 30"; glossy dark green leaves with fewer horrible spines than some; fast growing tree produces 1/4" red berries which hold well through winter.

crenata convexa: 5'-6'; color & texture perfect for hedges in place of boxwood.

crenata 'Sky Pencil': 8'; grows in narrow (12"-15") dense column of dark green glossy leaves; easily grown in full sun. Z 5-7

x meserveae 'Blue Girl': 10'-15'; dense shrub whose dark green smooth foliage has purple overtones and stems; fruit small, bright red; holds through severe winters. Z 5-9

'Blue Stallion': 10'-15'; vigorous; dark shiny green lvs with purple hue in winter; purple-green stems; pollen a feast for bees and other pollinators. (male) Z 5-9



Ilex pernyi: 10"x6"; thumbnail sized leaves are shiny dark green and prickly on gently descending branches; 3/8" fruit is dark red.

verticillata 'Oosterwijk': 4'-6'; noted for bright red berries held long into winter; partnered with 'Southern Gentleman'; fragrant flowers attractive to pollinators.

'Southern Gentleman': 6'; excellent pollinator for the many verticillata selections; flowers fragrant & great for honey bees.

'Winter Red'®: 8'; narrow, erect growth habit, dark green deciduous leaves; prolific and large berries feed the birds & make the branches excellent in bouquets; partnered with 'Southern Gentleman'.

Illicium henryi: 15'; Anise tree with copper to red flrs. Z 7-10,1,5,6,10,14

Ipheion uniflora – Spring Starflower: 6"; prolific bulb with grass-like leaves; flowers pale blue early spring & again in autumn. Z 6-8 1,4,5,6,7,10,11,13

IRIS: Z 5-9 1,4,5,7,10,11,13 for all

ensata 'Variegata': 30"; showy blades of 1" wide leaves have bold white stripes; violet-blue blooms are 3"-4" across.

louisiana 'Black Gamecock': 18"-24"; dark purple-black blooms with bright yellow bee lines; adapts well in moist-to-dry gardens. Z 6-9 14

virginiana: 15"; eastern U.S. native is a vivid blue, early. Z 5-8

Itea virginica 'Merlot': 3'-3½"; compact shrub bearing fragrant white flowers on 3"-4" racemes; fall color is clear wine-red. Z 5-9 1,4,5,6,7,8,11,13

Jeffersonia diphylla - Twinleaf: 8"-15"; divided kidney-shaped leaf, pure white 2½" flr on taller stem. Z 5-8 1,4,5,6,9,10,13

Kadsura japonica 'Chirimen': fast growing vine in shady, moist areas; shiny, thick, evergreen foliage has bold white variegation. Z 7-9 1,4,5,6,7,10,14

Laportea canadensis – Wood-Nettle: 2½'-3'; broad pale green lvs not as prickly as *Urtica dioica*; early growth a fine steamed potherb. Z 4-8 1,4,5,6,10,13

Leontopodium alpinum - Edelweiss: 10"; gray basal lvs; white-woolly blooms; ideal in rock garden. Z 5-8 1,4,5,6,11,13

Lilium superbum – Turk's Cap Lily: 4'-8"; native woodland plant outstanding for its golden orange flrs; petals recurved, hence the name. Z 5-7 1,5,6,7,10,13

Limonium/Goniolimon/ tataricum - German Statice: the quintessential filler for wreaths & flower arrangements; basal growth; 12"x14" heads of delicate white flowers on wiry structure; thrives in dry, sunny areas. Z 5-8 1,4,5,7,11,13

Liriodendron tulipifera - Tulip Tree: 70-100"; magnolia-like pale green flowers banded in orange, leaves bright green; trunk and branches form majestic structure; spectacular fall color; native to E North America. Z 4-7 1,4,5,6,7,10,11,13

LONICERA - Honeysuckle: Z 5-8 1,4,5,6,7,10,11,13 for all

crassifolia: 4"-6"; mounds of shiny ovate lvs (½"); delicate yellow fragrant flrs. Z 6B-8

pileata: low-growing bush, semi evergreen; yellow flowers, amethyst fruit. China **sempervirens 'John Clayton':** compact vine with yellow blooms throughout the season, ending with brilliant red fruit. Z 3-8

sempervirens 'Leo': vine; a light-footed climber whose long, bright red flowers enhance an archway or companionable neighboring shrubs.

Lychnis arkwrightii 'Vesuvius': 15"; dark bronze-green lvs, scarlet flrs. Z 7-10

Lychnis x haageana 'Molten Lava': 10"; compact bush with 2" scarlet flrs; Z 5-9 1,4,5,7,11,13/14

Lycium barbarum – Goji /Wolfberry: 5'; lavender bell-shaped flowers dangle from graceful stems; edible red berries. China Z 5-8 1,4,5,7,10,11,13

MAGNOLIA: 1,4,5,6,7,8,10,11,13 for all

acuminata – Cucumber Tree: 50-80"; majestic pyramidal silhouette; 10" long by 5" wide thick & tough dark green leaves gray-green beneath for fluttery show in the wind; flowers form yellowish masses over the tree in mid-spring; rich brown fall color; leaves fine in winter bouquets. E N Amer Z 4-8

macrophylla – Big Leaf M: 60"; leaves, up to 24" long by 12", are pale green above & silver beneath; creamy highly fragrant flrs up to 12" w; seed pods bright red. Z 6-8

macrophylla ssp ashei: 10-15"; profuse fragrant 10" white flowers at early age. Z 6-9

stellata 'Waterlily': 15"x15"; flower buds are deep pink, opening to pale pink, with many narrow, airy petals and glorious fragrance; rounded growth habit. Z 4-8

tripetala - Umbrella M: 40"; 25"x12" lvs in whorls at ends of branches; vase-shaped creamy flrs; 5" red seed cones. E NAM. Z 5-8

Maianthemum canadense – Canada Mayflower, False Lily of the Valley; 4"; native bright groundcover for shady & damp areas; shiny heart-shaped leaves are 4" long and solitary; flowers star-shaped, white, fragrant, in late spring; grows with *Mitchella* & *Gaultheria* Z 3-6 1,4,5,6,9,10,13

Michelia figo – Banana Shrub; 12"; an evergreen in the magnolia family with characteristic dense growth of leathery leaves; creamy thick-petaled 2" flowers have strong banana scent; hedge plant. Z 7-9 1,4,5,7,10,11,14

Monarda didyma x fistulosa 'Beauty of Cobham': 3"; profuse bright pale pink flowers; heavy growing bee balm; leaves deep green. Z 3-8 1,4,5,6,7,9,10,11,13

Muehlenbeckia axillaris nana – Creeping wire vine: 1"; dark glossy green oval leaves are oat-flake size on wiry tangle of stems; tiny flowers are greenish-white; needs dry location. NZ & Australia Z 7-10 1,4,5,6,7,8,10,11,14

Mukdenia rossii 'Karasuba': 8-10"; in mid-spring panicles of bright white star-like flowers float above small clumps of fan-shaped leaves which are fiery-red in late summer through autumn. Asia Z 4-9 1,4,5,6,10,13

Myrtus ugni: 6'; myrtle from S. Am; white starry flrs. Z 9-10 1,5,7,10,11,15

Nepeta xfaesenii 'Walker's Low'; 24"-30"; arching stems form 30" wide mass of green-grey foliage and intense blue flowers. Z 3-8 1,4,5,7,10,11,13

Ophiopogon planiscapus 'Nigrescens' - Black Mondo

Grass: 10"-12"; black mounds of ¼" lvs; showy! Z 5-8 1,4,5,6,7,10,11,13



ORCHID: Tipularia discolor – Cranefly O.: bright purple leaves of this native adorn the forest floor from late autumn through spring; in midsummer a 6" stalk of delicate greenish-purple blossoms appears. Z 4-9 1,4,5,6,10,13

Origanum sipyleum: grows in sprays of aromatic blue-green leaves; flowers hop-like, green bracts over pale tubes; from Turkey. Z 7-9 1,4,7,11,15

Osmanthus heterophyllus 'Goshiki': 5'-6'; hues from pink, yellow through greens to white splashed on tough holly-like lvs. Z 6-8 1,4,5,6,7,10,11,14

Osmorhiza claytonii – Wild Sweet Cicely, Anise Root: 3'; native to eastern North America mixed deciduous forests and alluvial woodlands; lacy leaves, flowers in white umbels. Z 3-7 1,4,5,6,9,10,13

Ostrya virginiana – Ironwood: 25-30"; profile is narrow with most branches horizontal & those at top, arching; slightly exfoliating bark; fine specimen tree or addition to woodland. E US Z 3-8 1,4,5,6,7,10,11,13

Parthenium integrifolium - Wild Quinine, American Feverfew: 3'; heavy clusters of button white flrs; shiny, toothed, foliage; handsome US native. Z 3-8

Parrotia persica: 20"; fragrant red flowers resemble ½" puffballs, early spring; adaptable to single or multiple stemmed growth; exfoliating green white brown mosaic patterned bark is showy in winter. Z 5-8 1,4,5,6,7,10,11,13

Patrinia scabiosifolia: 2'-3'; golden-yellow umbels grace the fall garden; very tough plant, good for dry, sunny location. Z 6-8 1,4,5,6,7,11,13

PELARGONIUM - Geranium: Z 10-11 1,4,5,7,10,11,15 for all

'Mrs. Hall': 24"; fancy-leaved geranium; lvs have bands of yellow, salmon, and green, both pure hues and overlaid; salmon colored flrs - quite a show!

fragrans 'Cody's Nutmeg': robust form of nutmeg, in fragrance and growth.

rapaceum 'Mrs. Kingsley': leaves deeply lobed with edges curling upward; strong grower with cerise blooms; faint pungent scent.

Philadelphus coronarius - Mock Orange: 10"; plenty of white fragrant flrs with yellow stamens; bark dark brown, peeling. Z 5-8 1,5,6,7,11,13

Phlox caroliniana: 2'; bright pink-lavender flrs; evergreen rosettes, spreads by runners. Z 3-8 1,4,5,6,7,8,10,11,13

Phlox stolonifera Spring Creek: 2'; local form of creeping woodland phlox; gorgeous light blue flowers lighten shady spots. SE US Z 4-9 1,4,5,6,7,10,13

Phormium cookianum/colensoi: 'Jack Spratt': 8"-10"; bronze grass-like foliage makes dense clumps for pots and borders.

tenax 'Candy Stripe': 3'-5'; bright & lively pink, white, yellow and red stripes run the length of leaf blades; fantastic in containers and cut arrangements.

tenax 'Purpureum' - New Zealand Flax: 5'-6'; leaf blades are broad sword shaped, green-gray shadowed over by burgundy; showy accent in bold containers and garden. Z 8-10 1,4,5,6,7,8,10,11,15 for all

Photinia villosa 'Village Green' aka Christmasberry: 15'; tidy tree, red fruit & red fall color; flrs & fruit great for pollinators & birds. Z 4-8 1,5,6,7,8,11,13

Pieris japonica 'Variegata': Variegated 'Little Heath': 2½'; cream-white and green leaves stand out on red stems. Z 6-7 1,4,5,6,10,11,13

Plectranthus ciliatus x fruticosus Cornell: 24"; spectacular deep lavender fluffy flrs in late summer; purple foliage, green under. Z 8-10 1,4,5,7,10,11,15

Poliathyrsis sinensis: 30"; compact tree bearing, in midsummer, panicles of creamy yellow flowers, having an intensely sweet fragrance, much loved by the pollinators; lustrous gray bark is a winter asset. Z 6-9 1,4,5,6,7,10,11,14

Populus canadensis - Balm of Gilead: 50"; resinous buds used in traditional healing salves US Z 2-8. 1,4,5,6,7,10,11,13

Premna microphylla japonica – Japanese Neem Tree: 10" shrub; insecticidal properties currently being researched; shiny birch-like leaves, odoriferous; tiny cream-colored flowers. Z 9-10 1,5,7,10,11,15

Primula denticulata Ronsdorf Strain: 10"; vibrant colors. Z 4-8 1,5,7,10,13

Prunus maritima - Beach Plum: 10"; shrubby to prostrate plant; fragrant white flrs produce fruit for jam & for wildlife; used for bank stabilization & wildlife habitat. Z 4-8 1,4,5,6,7,8,10,11,13

Prunus mume – Japanese Flowering Apricot: 20"x20"; pale rose to red, 1", fragrant flowers cover the tree in late winter, reblooming after freezes; branches bloom when cut (along with *Cornus mas* & *Hamamelis mollis*) for grand bouquets; tart fruit makes outstanding jam. Z 5-8 1,4,5,6,7,8,10,11,13

Pulmonaria 'Majeste': 8-12"; solid silver lvs with thin green edging & green veins; showy in shady spots; pink & blue flowers Z 3-9 1,4,5,6,7,8,10,11,13

Rhododendron arborescens, bakeri, periclymenoides, vaseyi & viscosum aka deciduous azalea: 6'; native to the Appalachians, where the common name is "honeysuckle" due to the sweet fragrance of the many-hued blooms; thrive in open understory environments. Z 5-8 1,4,5,6,7,9,10,13

arborescens: late bloom, white to pink, fragrant

bakeri: deep red-orange fragrant blooms

mucronulatum: Korean; pink & early flrs

periclymenoides: pink, sweet spicy fragrance

vaseyi: pink shell azalea

viscosum: very fragrant; white-pink

Sageretia thea: 10'; arching, spiny shrub with thumbnail sized leaves, sweetly fragrant creamy flowers; great for bonsai. Z 8-10 1,4,5,7,11,15

Selaginella braunii: 10"; ferny growth, semi-evergreen; shade. Z 7-9

SALIX - Willow: 1,4,5,7,8,11,13 for all

caprea 'Pendula' – Weeping French Pussywillow: 12'-15'; when staked, will form tree with 6' wide umbrella top with fringe; or good for slope and ground cover. Z 5-8

repens v argentea aka nitida – Creeping Willow: 3"; narrow silvery leaves; handsome cascading over retaining wall. Z 5-9

rosmarinifolia: 5"x6"; leaves 3" long x ½" wide, grey-blue-green and narrow; young branches are shiny brown; profile is narrow and dense. Z 5-8

SALVIA – Decorative sage 1,4,5,7,11,14/15

clevelandii ‘Winnifred Gilman’: 3’; whorls of ½” blue flrs, fragrant lvs. Z 8-10
fruticosa – Greek Sage: 24”; fragrant, grey felted lvs on shrubby form; pink flrs. Z 9
greggii ‘Teresa’: 24”; pink and white bicolor blooms attract hummers & pollinators.
x jamensis ‘Cienega de Oro’: 2’; clear light yellow flrs after pale pink buds. Z 8-11
microphylla ‘Forever Red’: 3’; brilliant red, drought tolerant. Z 7-10/all
‘Hot Lips’: 4’; dense growth, flrs red changing to white.
‘La Trinidad’: 3’; dense growth, brilliant pink flowers.
‘San Carlos Festival’: 3’; eye-popping magenta flowers!

microphylla x darcyi ‘Silke’s Dream’: 24”; showy, intense purple-orange-red flowers in spikes are profuse from summer until frost or through autumn. Z 7-10
muirii – Sky Blue African S.: 18”; excellent for the dry rock garden; blooms from spring to frost with white-throated blue flowers. Z 9-10
rubescens: 4’; 1½” red tubular flrs in 15” open spikes, autumn. Z 9-10
sagittata: 4’; sprawling habit in rich soil & full sun; 1” blue, showy flrs. Z 9
univerticillata: 4’; 1”+ red fuzzy tubular blooms; sturdy; fruit scented. Z 9

Sambucus nigra forma laciniata – Cutleaf Elderberry: 6’-8’; umbels of lacy creamy flowers in late spring; foliage finely dissected. Z 4-8 1,4,5,6,7,8,10,11,13/both

Sambucus nigra ‘Thundercloud’: 6’-8’; burgundy foliage with true reddish-pink flowers May-June; best color in full sun. Z 5-8

Sanguisorba officinalis ‘Pink Tanna’ Burnett: 2½’-3’; many stems of soft pink catkin-like flrs resemble a cloud in the garden. Z 4-8 1,5,7,11,13

Saxifraga micranthidifolia - Branch Lettuce: basal rosette with 6”-8” stems showy with white flowers; grows among rocks and within streams as well as in a shaded moist garden area. Z 6-8 1,5,6,7,9,13

Silene regia - Royal Catchfly: 3’; deep red 2” flrs on stout stems, July-August, for hummingbirds & pollinators Z 4-8 1,5,6,10,11,13 for both

Silene virginica - Fire Pink: no one misses these brilliant pink to red natives!

xSinocalycanthus raulstonii ‘Hartledge Wine’: 8’-10’; deep red 2” flrs in profusion; shiny dark lvs; handsome shrub year round. Z 5-8 1,4,5,6,7,8,10,11,13

Skimmia japonica: 2’x3’; shiny evergreen leaves; flat heads of fragrant pink flowers bear ½” red fruit in winter; sold in male/female pairs. Z 7-8 1,4,5,6,7,10,11,14

Spigelia marilandica - Indian Pink: 1’-2’; 2” trumpet-shaped flrs red with yellow interior, June; glossy 4” pointed lvs; native. Z 5-9 1,4,5,6,9,10,13

Spiraea tomentosa - Steeplebush: 3’; spires of deep pink flrs; native; moist to wet soils, full sun; pollinators love it! Z 3-8 1,4,5,6,7,8,10,11,13

Stewartia pseudocamellia v koreana: 20’-30’x10’w; 2”-3” single white flrs cover the tree for a month in early summer; bark peels from trunk leaving pink & gray areas - especially showy in winter garden. Z 5-8 1,4,5,6,7,8,10,11,13

SYRINGA – Lilac: The Lilac, a fragrant and colorful woody plant, was...a favorite garden plant in Constantinople before the 16th century...taken to Vienna in 1554, northern Europe by 1597 and to America by 1700. It was grown by Bartram and had become quite common in the time of Washington and Jefferson. Its wild home...is mountains of Hungary and Bulgaria.” (Swarthmore Plant Notes V1, Pt2) Z 4-7 1,4,5,7,8,10,11,13

x hybrida ‘Asessippi’: 6’; early pale lilac-purple flowers have grand fragrance; shrub is compact and broad in growth. Z 2-8 Introduced 1932

josikaea - Hungarian L: 8’; late blooming single lilac flrs; fragrant! Int 1800

oblata - Early Lilac: 6’; fragrant, profuse pale lilac blooms cover this shrub. Z 3-8

patula ‘Miss Kim’: 4’x6’; fragrant single flrs are purple in bud, pale lilac open; dark foliage is mildew-resistant. Int 1954

xprestoniae ‘Donald Wyman’: 8’; flower heads are 8-10” long – a deep purple, delightfully fragrant late season bloomer. Z 3-7 Int 1944

xprestoniae ‘Miss Canada’: 6’-7’; deep red buds open to full bright pink heavy flowers with spicy fragrance. Z 2-7 Int 1967

vulgaris ‘Alphonse Lavallee’: 8’x8’; double lilac flrs in large panicles. Int 1885

vulgaris ‘Charles Joly’: 10’x6’; black-purple fragrant double flowers; French. 1896

vulgaris ‘Henri Martin’: 8’x6’; double lilac mauve with intense fragrance. 1912

vulgaris ‘Ludwig Spaeth’: 10’x6’; single deep purple flowers in large panicles are finest for fragrance and size; compact growth. Int 1883

vulgaris ‘Mme Lemoine’: 12’x8’; glowing double white large panicles. 1890

vulgaris ‘Reaumur’: 10’x8’; single deep magenta with magical fragrance. 1904

vulgaris ‘Sensation’: 12’; purple flowers outlined by clear white bands; superbly fragrant and easy to grow. 1938

xjulianae ‘George Eastman’: 8’-10’; claret colored buds open to cerise pink tubular flowers; highly fragrant & graceful cut flowers. Z 4-8 1978

THALICTRUM - Meadow-rue: Z 3-8 1,4,5,6,7,10,13/all

clavatum - Mountain meadow-rue: 12”-14”; pure white starry flowers native to our woodland’s damp & shady spots.

dioicum - Early M-r: 12”; cheerful mauve woodland native; airy rounded leaves.

flavum - Yellow M-r: 36”; mist of pale yellow flrs top swaying stems; rounded grey-green foliage is delightful food for butterfly caterpillars!

rochebrunianum ‘Lavender Mist’: 6-8’; grand sprays of pale lavender purple bell-shaped blooms in early summer atop tall dark purple stalks; self-supporting; round-leaf foliage persists to help feed butterfly larvae; excellent for the woodland garden and sunny border.

Thymus xcitriodorus ‘Archer’s Gold’: 2”; dark green spreading growth turns gold; flowers pink. Z 6-9 1,4,7,11,14

Tricyrtis formosana ‘Gilt Edge’ Toad Lily: 24”; narrow edging of gold on shiny green leaves borne on slightly arching stems; orchid-like flowers are pinky-purple and speckled. Asia Z 4-8 1,4,5,6,7,9,10,13/both

Tricyrtis hirta Miyazaki Hybrid Toad Lily: 3’; bright green lance-shaped leaves; small white flowers are spotted with purple; both form heavy clumps.

TRILLIUM: Classic spring ephemeral wildflower! 1,5,6,7,9,10,11,13 for all

catesbyi - Pink T.: 10”; bright pink flower; acid soil, shade; native to rhododendron forests of southern mountains. Z 4-8

erectum - Red T., Wake Robin: 10”; deep maroon blooms rise over mottled three-lobed leaves in early spring. E US Z 5-7

flexipes - White Nodding T.: 10-15”; creamy white flowers face outwards, are long lasting; readily adaptable plant. E US Z 6-8

pusillum - Dwarf White T.: 4”; flowers white with pink underside, fading to deep pink with age; leaves are narrow, dark green with dark red accents. Z 5-7

Uvularia perfoliata – Bellwort: 12”; stems have bright leaves with prominent veins; bell-shaped yellow flowers are single & in pairs; spring ephemeral forms patches in woodland gardens. E US & Can. Z 4-7 1,5,6,7,10,11,13

VIBURNUM: Grow guide for all: 1,4,5,6,7,8,10,11,13

dentatum – Arrow Wood: 12’; flowers are plentiful, white & showy in the woodland, fruit dark blue; leaves oval, toothed; native to eastern U.S. Z 2-7

lantana - Wayfaring Tree: 8’-10’; velvety leaves; flowers in white umbels; fruit red, later black. Z 3-8 1,4,5,6,7,8,10,11,13

nudum ‘Winterthur’: 6’; shiny dark green foliage surrounds profuse white flowers in flat heads on this multi-stemmed shrub; fall color burgundy to purple; seed heads are black. E US Z 6-8

opulus ‘Sterile’ – Snowball V.: 10’x8’; large shrub with balls of greenish flowers turning white – truly snowballs in summer! Shiny green leaves. Z 4-8

sargentii: 12’; flowers are pure white with purple anthers, in flat heads; fruit berries are bright translucent cardinal red from late August through early winter; great addition to range of fall color. Z 3-7

VIOLA: Z 7-9 1,5,6,7,10,11,14

mandschurica: 4”; intensely dark purple blooms; leaves are narrow, variegated blades; unusual for a violet.

odorata ‘Alba Plena’: double white, very fragrant

‘Clive Groves’: large deep purple, sweet fragrance

‘Duchesse de Parme’: double lavender with white center; fragrant!

‘Lydia Groves’: pale pink with rose blush; fragrant.

‘Mauve’: excellent grower, lovely scent.

‘Reid’s Crimson Carpet’: trailing - forms mats; fragrant

walteri ‘Silver Gem’: trailing silvery foliage; pale lavender bloom. Eastern US

Vitex negundo var heterophylla: 10’; Cut-leaf vitex - small aromatic shrub with purple flrs used by pollinators. China Z 6-9 1,4,5,7,11,14

Zephyranthes atamasca – Atamasco Lily: 12”; six petaled, funnel-shaped, green centered flower begins pure white fading to pink; emerald green grass-like leaves; bulb; native SE US Z 6-10 1,4,5,6,7,10,11,14

Buggotion - This lotion, developed and tested by Ellen, both repels biting and stinging insects and soothes and repairs their bites! Her horses and our donkey invite us to apply the lotion to the inside of ears, along midlines and hard to reach places - a dab a day will do it. We put a dab on our ears and wrists to protect us from no-seums and other biters. Ingredients: Soy oil, apple cider vinegar, aloe gel, comfrey, plantain, pennyroyal, lemon eucalyptus & citronella oils & bees wax.



We recommend as an excellent resource and a great organization: www.beecityusa.org. Explore their lists of native pollinator plants for the major regions of the US.

GROWING GUIDE

These ranges of growing conditions are best for the plants listed, but most plants will do quite well in a less than perfect environment.

- | | | | | |
|--------------|----------------------|------------------|-------------------|--|
| 1. Perennial | 4. Light, sandy soil | 7. Neutral soil | 10. Partial shade | 14. Not full hardy, winter protect below 20° F |
| 2. Annual | 5. Loamy soil | 8. Alkaline soil | 11. Full sun | 15. Tender |
| 3. Biennial | 6. Acid soil | 9. Full shade | 13. Hardy | |

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2017

