

Town of McAdenville, North Carolina
Appendix B – Approved Tree and Shrub Species

CANOPY TREES

SCIENTIFIC NAME	COMMON NAME	DROUGHT TOLERANT	E/D	TYPE	Ht (FEET)	EXPOSURE
<i>Abies firma</i>	Japanese fir	No	E	C	40 to 70	Sun
<i>Acer platanoides</i>	Norway maple	Yes	D	C	40 to 50	Sun
<i>Acer pseudo-platanus</i>	Sycamore maple	Yes	D	C	40 to 60	Sun
<i>Acer rubrum</i>	Red maple	Yes	D	C	40 to 60	Sun, partial shade
<i>Acer saccharum</i>	Sugar maple	No	D	C	50 to 75	Sun, partial shade
<i>Acer x freemanii</i>	Freeman maple	Yes	D	C	50 to 65	Sun
<i>Aesculus flava</i>	Yellow buckeye	No	D	C	50 to 70	Sun, partial shade
<i>Aesculus hippocastanum</i>	Common horse chestnut	No	D	C	50 to 75	Sun, partial shade
<i>Alnus glutinosa</i>	Common alder	Yes	D	C	40 to 60	Sun, partial shade
<i>Betula jacquemontii</i>	Jacquemontii birch; Whitebarked himalayan birch	No	D	C	30 to 50	Sun
<i>Betula lenta</i>	Sweet birch	Yes	D	C	40 to 55	Sun, partial shade
<i>Betula nigra</i>	River birch	No	D	C	40 to 70	Sun, partial shade
<i>Calocedrus decurrens</i>	Incense cedar	Yes	E	C	30 to 70	Sun, light shade
<i>Carpinus betulus</i>	European hornbeam	Yes	D	C	40 to 60	Sun, partial shade
<i>Carpinus betulus 'fastigiata'</i>	Upright European hornbeam	Yes	D	C	40 to 60	Sun, partial shade
<i>Carpinus caroliniana</i>	American hornbeam, Ironwood	Yes	D	C	20 to 30	Sun, partial shade
<i>Carya illinoensis</i>	Pecan	Yes	D	C	70 to 100	Sun, light shade
<i>Castanea sativa</i>	Spanish chestnut	Yes	D	C	80 to 100	Sun
<i>Catalpa speciosa</i>	Northern catalpa	Yes	D	C	40 to 70	Sun, partial shade
<i>Cedrus atlantica 'Glauca'</i>	Blue atlas cedar	Yes	E	C	60 to 100	Sun, partial shade
<i>Cedrus deodara</i>	Deodar cedar	Yes	E	C	40 to 70	Sun, light shade
<i>Cedrus libani</i>	Cedar of Lebanon	Yes	E	C	40 to 60	Sun
<i>Celtis laevigata</i>	Hackberry	Yes	D	C	60 to 80	Sun
<i>Celtis occidentalis</i>	Hackberry	Yes	D	C	40 to 60	Sun
<i>Cercidiphyllum japonicum</i>	Katsuratree	No	D	C	40 to 60	Sun
<i>Chamaecyparis obtusa</i>	Hinoki falsecypress	No	E	C	50 to 75	Sun, light shade
<i>Chamaecyparis pisifera</i>	Japanese falsecypress	No	E	C	50 to 70	Sun
<i>Cryptomeria japonica</i>	Cryptomeria	Yes	E	C	50 to 60	Sun, light shade
<i>Cunninghamia lanceolata</i>	China fir	No	E	C	30 to 75	Sun, partial shade
<i>Eucommia ulmoides</i>	Hardy rubber tree	Yes	D	C	40 to 60	Sun
<i>Fagus grandifolia</i>	American beech	No	D	C	50 to 80	Sun, partial shade
<i>Fraxinus americana</i>	White ash	Yes	D	C	60 to 80	Sun
<i>Fraxinus pennsylvanica</i>	Green ash	Yes	D	C	50 to 60	Sun
<i>Ginkgo biloba (male)</i>	Ginkgo	Yes	D	C	40 to 70	Sun
<i>Gleditsia triacanthos</i>	Honeylocust	Yes	D	C	30 to 70	Sun
<i>Gleditsia triacanthos inermis</i>	Thornless honeylocust	Yes	D	C	30 to 70	Sun
<i>Gordonia lasianthus</i>	Loblolly bay	No	E	C	30 to 50	Sun, partial shade
<i>Gymnocladus dioica</i>	Kentucky coffeetree	Yes	D	C	60 to 75	Sun
<i>Ilex opaca</i>	American holly	Yes	E	C	30 to 60	Sun, partial shade
<i>Juniperus virginiana</i>	Eastern redcedar	Yes	E	C	30 to 40	Sun
<i>Kalopanax pictus</i>	Castor-aralia	Yes	D	C	40 to 60	Sun
<i>Larix keampferi</i>	Japanese larch	No	D	C	50 to 70	Sun
<i>Liquidambar styraciflua</i>	Sweetgum	Yes	D	C	60 to 100	Sun, partial shade
<i>Liriodendron tulipifera</i>	Tuliptree, Yellow poplar	No	D	C	40 to 100	Sun
<i>Magnolia acuminata</i>	Cucumbertree magnolia	No	D	C	50 to 80	Sun, partial shade
<i>Magnolia grandiflora</i>	Southern magnolia	Yes	E	C	40 to 80	Sun, partial shade
<i>Metasequoia glyptostroboides</i>	Dawn redwood	Yes	D	C	50 to 90	Sun
<i>Nyssa sylvatica</i>	Black gum	No	D	C	40 to 60	Sun, partial shade
<i>Picea abies</i>	Norway spruce	No	E	C	40 to 60	Sun
<i>Picea glauca</i>	Alberta spruce	Yes	E	C	40 to 60	Sun, light shade
<i>Picea pungens</i>	Colorado blue spruce	Yes	E	C	30 to 90	Sun
<i>Pinus echinata</i>	Shortleaf pine	Yes	E	C	80 to 100	Sun

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<i>Pinus elliotii</i>	Slash pine	Yes	E	C	60 to 80	Sun
<i>Pinus flexilis</i>	Limber pine	Yes	E	C	30 to 60	Sun, partial shade
<i>Pinus heldreichii</i>	Bosnian pine	Yes	E	C	70 to 90	Sun
<i>Pinus nigra</i>	Austrian pine	Yes	E	C	30 to 60	Sun
<i>Pinus rigida</i>	Pitch pine	Yes	E	C	40 to 60	Sun
<i>Pinus strobus</i>	White Pine	Yes	E	C	Varies	Sun
<i>Pinus sylvestris</i>	Scotch pine	Yes	E	C	30 to 70	Sun
<i>Pinus taeda</i>	Loblolly pine	Yes	E	C	30 to 40	Sun, partial shade
<i>Pinus thunbergiana</i>	Japanese black pine	Yes	E	C	50 to 70	Sun
<i>Pinus virginiana</i>	Virginia pine	Yes	E	C	15 to 40	Sun
<i>Platanus acerifolia</i>	London plane tree	Yes	D	C	60 to 80	Sun
<i>Platanus occidentalis</i>	Sycamore	No	D	C	70 to 100	Sun, partial shade
<i>Quercus acutissima</i>	Sawtooth oak	Yes	D	C	30 to 45	Sun, light shade
<i>Quercus alba</i>	White oak	Yes	D	C	60 to 100	Sun
<i>Quercus bicolor</i>	Swamp white oak	Yes	D	C	50 to 60	Sun, partial shade
<i>Quercus coccinea</i>	Scarlet oak	Yes	D	C	50 to 80	Sun
<i>Quercus falcata</i>	Southern red oak	Yes	D	C	70 to 90	Sun
<i>Quercus hemisphaerica</i>	Darlington oak	Yes	D	C	40 to 60	Sun, partial shade
<i>Quercus imbricaria</i>	Shingle oak	Yes	D	C	50 to 60	Sun
<i>Quercus lyrata</i>	Overcup oak	Yes	D	C	35 to 45	Sun
<i>Quercus macrocarpa</i>	Bur oak	Yes	D	C	70 to 80	Sun
<i>Quercus nigra</i>	Water oak	Yes	D	C	50 to 75	Sun, partial shade
<i>Quercus nuttallii</i>	Nuttall oak	Yes	D	C	40 to 60	Sun
<i>Quercus palustris</i>	Pin oak	Yes	D	C	60 to 80	Sun
<i>Quercus phellos</i>	Willow oak	Yes	D	C	60 to 80	Sun
<i>Quercus prinus</i>	Chestnut oak	Yes	D	C	60 to 70	Sun
<i>Quercus rubra</i>	Red oak	Yes	D	C	60 to 75	Sun
<i>Quercus shumardii</i>	Shumard oak	Yes	D	C	40 to 60	Sun
<i>Quercus stellata</i>	Post oak	Yes	D	C	40 to 50	Sun
<i>Quercus virginiana</i>	Live oak	Yes	E	C	30 to 50	Sun
<i>Salix matsudana</i>	Scarlet Curls, Tortuosa	No	D	C	40 to 50	Sun
<i>Sassafras albidum</i>	Sassafras	Yes	D	C	30 to 60	Sun, partial shade
<i>Taxodium ascendens</i>	Pond cypress	Yes	D	C	70 to 80	Sun
<i>Taxodium distichum</i>	Baldcypress	Yes	D	C	50 to 100	Sun
<i>Thuja occidentalis</i>	American arborvitae	No	E	C	40 to 60	Sun
<i>Thuja plicata</i>	Giant arborvitae	No	E	C	50 to 80	Sun, partial shade
<i>Thuja x 'Green Giant'</i>	Green Giant arbor	No	E	U	40 to 60	Sun
<i>Tilia americana</i>	American linden	Yes	D	C	60 to 100	Sun
<i>Tilia cordata</i>	Littleleaf linden	Yes	D	C	30 to 50	Sun
<i>Tilia tomentosa</i>	Silver linden	Yes	D	C	40 to 70	Sun
<i>Tsuga canadensis</i>	Canadian hemlock	No	E	C	30 to 80	Sun, partial shade
<i>Tsuga caroliniana</i>	Carolina hemlock	No	E	C	30 to 70	Sun, partial shade
<i>Ulmus americana</i>	Liberty Elm, Valley Forge Elm	Yes	D	C	75 to 125	Sun, partial shade
<i>Ulmus parvifolia</i>	Lacebark elm	Yes	D	C	40 to 50	Sun
<i>Zelkova serrata</i>	Zelkova	Yes	D	C	50 to 80	Sun, partial shade

UNDERSTORY TREES

SCIENTIFIC NAME	COMMON NAME	DROUGHT TOLERANT	E/D	TYPE	Ht (FEET)	EXPOSURE
<i>Abies koreana</i>	Korean fir	No	E	U	15 to 30	Sun
<i>Acer barbatum</i> (<i>A. saccharum</i> ssp. <i>floridanum</i>)	Southern sugar maple	Yes	D	U	20 to 25	Sun
<i>Acer buergerianum</i>	Trident maple	Yes	D	U	25 to 35	Sun
<i>Acer campestre</i>	Hedge maple	Yes	D	U	25 to 35	Sun, light shade
<i>Acer cissifolium</i>	Ivy-leaved maple	No	D	U	20 to 30	Sun, partial shade
<i>Acer ginnala</i>	Amur maple	Yes	D	U	15 to 20	Sun, partial shade
<i>Acer griseum</i>	Paperbark maple	No	D	U	20 to 30	Sun, partial shade
<i>Acer japonicum</i>	Fullmoon maple	No	D	U	20 to 30	Sun, partial shade
<i>Acer leucoderme</i>	Whitebark maple, Chalk maple	Yes	D	U	25 to 30	Sun, partial shade
<i>Acer maxmowiczianum</i>	Nikko maple	No	D	U	20 to 30	Sun
<i>Acer negundo</i>	Box elder	Yes	D	U	30 to 50	Sun
<i>Acer palmatum</i>	Japanese maple	No	D	U	15 to 25	Sun, partial shade
<i>Acer spicatum</i>	Mountain maple	No	D	U	10 to 30	Sun, partial shade
<i>Acer triflorum</i>	Three-flower maple	No	D	U	20 to 30	Sun, partial shade
<i>Acer truncatum</i>	Purple blow maple	Yes	D	U	20 to 25	Sun
<i>Aesculus californica</i>	California buckeye	Yes	D	U	20 to 30	Sun, partial shade
<i>Aesculus glabra</i>	Ohio buckeye	No	D	U	20 to 40	Sun, partial shade
<i>Aesculus pavia</i>	Red buckeye	Yes	D	U	10 to 20	Sun, partial shade
<i>Aesculus sylvatica</i>	Painted buckeye	No	D	U	5 to 15	Sun, partial shade
<i>Albizia julibrissin</i>	Mimosa	Yes	D	U	20 to 35	Sun
<i>Alnus japonica</i>	Japanese alder	Yes	D	U	12 to 25	Sun, partial shade
<i>Alnus serrulata</i>	Tag alder	Yes	D	U	15 to 20	Sun, partial shade
<i>Amelanchier alnifolia</i>	Serviceberry	No	D	U	15 to 25	Sun, partial shade
<i>Amelanchier arborea</i>	Downy serviceberry	No	D	U	10 to 25	Sun, partial shade
<i>Amelanchier canadensis</i>	Shadbush	No	D	U	15 to 20	Sun, partial shade
<i>Amelanchier x grandiflora</i>	Apple serviceberry cvs: Autumn Brilliance, Princess Diana, etc.	No	D	U	20 to 25	Sun, partial shade
<i>Carpinus japonica</i>	Japanese hornbeam	Yes	D	U	20 to 30	Sun, partial shade
<i>Carpinus orientalis</i>	Oriental hornbeam	Yes	D	U	15 to 25	Sun, shade
<i>Cercis canadensis</i>	Eastern redbud	Yes	D	U	20 to 30	Sun, partial shade
<i>Cercis canadensis ssp. retisus</i>	Oklahoma redbud	Yes	D	U	20 to 30	Sun, partial shade
<i>Cercis canadensis ssp. texensis</i>	Texas redbud	Yes	D	U	15 to 20	Sun, partial shade
<i>Cercis chinensis</i>	Chinese redbud	Yes	D	U	8 to 12	Sun
<i>Chionanthus retusus</i>	Chinese fringe tree	Yes	D	U	15 to 25	Sun, partial shade
<i>Chionanthus virginicus</i>	Fringe tree	No	D	U	12 to 20	Sun, partial shade
<i>Cladrastis kentuckea</i>	Yellowwood	Yes	D	U	30 to 45	Sun
<i>Cornus florida</i>	Flowering dogwood	No	D	U	15 to 20	Partial shade
<i>Cornus kousa</i>	Kousa dogwood	No	D	U	20 to 30	Sun, partial shade
<i>Cornus mas</i>	Cornelain cherry dogwood	Yes	D	U	20 to 25	Sun, partial shade
<i>Cornus Stellar hybrids</i>	Stellar dogwood	No	D	U	15 to 30	Sun, partial shade
<i>Corylus avellana 'Contorta'</i>	Lauders walking stick	No	D	U	12 to 20	Sun
<i>Cotinus coggygria</i>	Smoketree	Yes	D	U	10 to 15	Sun
<i>Cotinus hybrids</i>	Smoketree cvs: Grace	Yes	D	U	10 to 15	Sun
<i>Cotinus obovatus</i>	American smoke tree	Yes	D	U	10 to 15	Sun
<i>Crataegus crus-galli</i>	Cockspur hawthorn	Yes	D	U	20 to 30	Sun
<i>Crataegus laevigata</i>	Scarlet hawthorn, English hawthorn	Yes	D	U	20 to 25	Sun
<i>Crataegus phaenopyrum</i>	Washington hawthorn	Yes	D	U	25 to 30	Sun
<i>Crataegus x lavalleyi</i>	Lavalle hawthorn	Yes	D	U	15 to 30	Sun
<i>Crataegus viridis</i>	Green hawthorn	Yes	D	U	15 to 20	Sun, light shade
<i>Cryptomeria japonica</i>	Cryptomeria cvs: Sekkan-Sugi, etc.	No	E	U	15 to 30	Sun, light shade

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<i>Cupressus arizonica</i>	Arizona cypress	Yes	E	U	30 to 40	Sun
<i>Cupressus sempervirens</i>	Italian cypress	Yes	E	U	20 to 30	Sun
<i>Cydonia sinensis</i>	Chinese quince	No	D	U	10 to 20	Sun, partial shade
<i>Euscaphis japonica</i>	Korean sweetheart tree	Yes	D	U	20	Sun, partial shade
<i>Firmiana simplex</i>	Chinese parasol tree	No	D	U	30 to 45	Sun
<i>Halesia carolina, H. tetraptera</i>	Carolina silverbell	No	D	U	20 to 40	Sun, partial shade
<i>Halesia diptera</i>	Two-winged silverbell	No	D	U	15 to 30	Sun, partial shade
<i>Heptacodium miconiodes</i>	Seven-son flower	Yes	D	U	10 to 20	Sun, partial shade
<i>Hovenia dulcis</i>	Japanese raisin tree	No	D	U	30	Sun, light shade
<i>Ilex cassine</i>	Dahoon holly	No	E	U	20 to 30	Sun, partial shade
<i>Ilex decidua</i>	Possumhaw	Yes	D	U	20 to 30	Sun, partial shade
<i>Ilex pedunculosa</i>	Long stalk holly	No	E	U	20 to 30	Sun, partial shade
<i>Ilex vomitoria 'Pendula'</i>	Weeping yaupon holly	Yes	E	U	20 to 25	Sun, partial shade
<i>Ilex x 'Nellie R. Stevens'</i>	Nellie R. Stevens holly	Yes	E	U	20 to 40	Sun, partial shade
<i>Ilex x 'Carolina Sentinal'</i>	Carolina Sentinal holly	No	E	U	20 to 25	Sun, partial shade
<i>Ilex x attenuata</i>	Ilex cvs: Savannah, Foster, Sunny Foster, East Palatka, etc.	Yes	E	U	20 to 30	Sun, partial shade
<i>Juniperus salicicola</i>	Southern red cedar	Yes	E	U	30 to 40	Sun
<i>Juniperus scopulorum</i>	Rocky Mountain juniper cvs: Blue Haven, Skyrocket, Wichita Blue, etc.	Yes	E	U	15 to 40	Sun
<i>Koelreuteria bipinnata</i>	Southern Goldenraintree	Yes	D	U	20 to 30	Sun
<i>Koelreuteria paniculata</i>	Goldenraintree	Yes	D	U	20 to 40	Sun
<i>Lagerstroemia fauriei</i>	Japanese crapemyrtle	Yes	D	U	20 to 30	Sun
<i>Lagerstromia indica</i>	Crapemyrtle	Yes	D	U	15 to 30	Sun
<i>Lagerstromia indica x fauriei</i>	Crapemyrtle cvs: Choctaw, Muskogee, Natchez, Tuscarora, etc.	Yes	D	U	15 to 30	Sun
<i>Lithocarpus henryi</i>	Henry tanbark oak	Yes	E	U	25 to 30	Sun, partial shade
<i>Maackia amurensis</i>	Amur maackia	Yes	D	U	20 to 30	Sun
<i>Maclura pomifera</i>	Osage-orange	Yes	D	U	20 to 40	Sun
<i>Magnolia grandiflora 'Little Gem'</i>	Little Gem magnolia	Yes	E	U	15 to 20	Sun
<i>Magnolia hybrids</i>	Magnolia cvs: Ann, Betty, Judy, Mary Nell, Galaxy, etc	No	D	U	10 to 30	Sun
<i>Magnolia liliiflora</i>	Lily magnolia	No	D	U	12 to 15	Sun
<i>Magnolia macrophylla</i>	Bigleaf magnolia	No	D	U	30 to 40	Sun, partial shade
<i>Magnolia sieboldii</i>	Oyama magnolia	No	D	U	10 to 20	Partial shade
<i>Magnolia stellata</i>	Star magnolia	No	D	U	10 to 20	Sun
<i>Magnolia virginiana</i>	Sweetbay magnolia	No	E	U	10 to 60	Sun, partial shade
<i>Magnolia x soulangiana</i>	Saucer magnolia	No	D	U	15 to 25	Sun, partial shade
<i>Malus spp.</i>	Crabapple	Yes	D	U	15 to 25	Sun
<i>Morus australis 'Unryo'</i>	Contorted mulberry	No	D	U	20 to 30	Sun
<i>Nyssa ogeche</i>	Ogeche gum	No	D	U	30 to 50	Sun, partial shade
<i>Ostrya virginiana</i>	American hophornbeam or Ironwood	Yes	D	U	25 to 40	Sun, partial shade
<i>Oxydendrum arboreum</i>	Sourwood	Yes	D	U	20 to 30	Sun, partial shade
<i>Parrotia persica</i>	Persian ironwood	No	D	U	20 to 40	Sun, light shade
<i>Persea borbonia</i>	Redbay	Yes	E	U	15 to 40	Sun, partial shade
<i>Phellodendron amurense</i>	Amur cork tree	Yes	D	U	30 to 45	Sun
<i>Photinia serrulata</i>	Chinese photinia	Yes	E	U	20 to 30	Sun
<i>Picea glauca (dwarf cultivars)</i>	Spruce cvs: Conica, etc	Yes	E	U	10 to 20	Sun, light shade
<i>Pinus bungeana</i>	Lacebark pine	Yes	E	U	30 to 50	Sun
<i>Pinus cembra</i>	Swiss stone pine	Yes	E	U	30 to 40	Sun
<i>Pinus korariensis</i>	Korean pine	Yes	E	U	30 to 40	Sun, partial shade
<i>Pinus mugo</i>	Mugo pine	Yes	E	U	15 to 20	Sun, partial shade
<i>Pinus wallichiana</i>	Himalayan pine	Yes	E	U	30 to 50	Sun, partial shade
<i>Pistacia chinensis</i>	Chinese pistache	Yes	D	U	25 to 40	Sun
<i>Poncirus trifoliata</i>	Hardy orange	Yes	D	U	8 to 20	Sun

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<i>Prunus</i> 'Snow Goose'	Snow Goose cherry	No	D	U	20	Sun
<i>Prunus campanulata</i>	Taiwan cherry	No	D	U	20 to 30	Sun, partial shade
<i>Prunus caroliniana</i>	Carolina laurelcherry	No	E	U	20 to 40	Sun, partial shade
<i>Prunus cerasifera</i>	Purple leaf plum	No	D	U	15 to 25	Sun
<i>Prunus mume</i>	Japanese apricot	No	D	U	10 to 20	Sun, partial shade
<i>Prunus percica</i> (Corinthian hybrids)	Corinthian peach	No	D	U	20 to 25	Sun
<i>Prunus sargentii</i>	Sargent cherry	No	D	U	20 to 40	Sun
<i>Prunus serrulata</i>	Japanese cherry	No	D	U	15 to 25	Sun, partial shade
<i>Prunus subhirtella</i>	Higon cherry	No	D	U	20 to 40	Sun
<i>Prunus</i> x 'Okame'	Okame cherry	No	D	U	15 to 30	Sun
<i>Prunus</i> x <i>blireana</i>	Blireana cherry	No	D	U	15 to 20	Sun
<i>Prunus</i> x <i>cistena</i>	Purple leaf plum	No	D	U	7 to 14	Sun
<i>Prunus</i> x <i>yedoensis</i>	Yoshino cherry	No	D	U	30 to 40	Sun, light shade
<i>Pseudolarix amabilis</i>	Golden-larch	No	D	U	20 to 40	Sun
<i>Ptelea trifolia</i>	Hop tree	Yes	D	U	15 to 20	Sun, partial shade
<i>Pyrus calleryana</i>	Pear cvs: Cleveland, Aristocrat, Capital, Redspire, 'Holmford'	Yes	D	U	30 to 40	Sun
<i>Rhamnus caroliniana</i>	Carolina buckthorn	Yes	D	U	15 to 30	Sun
<i>Rhus typhina</i>	Staghorn sumac	Yes	D	U	15 to 25	Sun
<i>Robinia pseudoacacia</i>	Black locust	Yes	D	U	30 to 50	Sun
<i>Salix babylonica</i>	Weeping willow	No	D	U	30 to 50	Sun
<i>Sinojackia rehderiana</i>	Jacktree	No	D	U	15 to 20	Sun, partial shade
<i>Stewartia rostrata</i>	Upright stewartia	No	D	U	15	Sun, partial shade
<i>Stewartia koreana</i>	Korean stewartia	No	D	U	20 to 30	Sun, partial shade
<i>Stewartia ovata</i>	Mountain stewartia	No	D	U	10 to 15	Sun, light shade
<i>Stewartia pseudocamellia</i>	Japanese stewartia	No	D	U	20 to 40	Sun, partial shade
<i>Styrax japonica</i>	Japanese snowbell	No	D	U	20 to 30	Sun, partial shade
<i>Styrax malacodendron</i>	Silky stewartia	No	D	U	10 to 15	Partial shade
<i>Styrax obassia</i>	Fragrant snowball	No	D	U	20 to 30	Sun, partial shade
<i>Syringa reticulata</i>	Japanese tree lilac	No	D	U	20 to 30	Sun
<i>Thuja occidentalis</i>	Eastern arborvitae	No	E	U	10 to 30	Sun
<i>Thuja orientalis</i>	Oriental arborvitae	No	E	U	18 to 25	Sun
<i>Trachycarpus fortunei</i>	Windmill palm	Yes	E	U	15 to 35	Sun, partial shade
<i>Trochodendron aralioides</i>	Wheel tree	No	D	U	10 to 20	Partial shade
<i>Ulmus alata</i>	Winged elm	Yes	D	U	30 to 40	Sun
<i>Vitex agnus-castus</i>	Vitex chastetree	Yes	D	U	15 to 20	Sun
<i>Ziziphus jujuba</i>	Common jujuba	Yes	D	U	15 to 20	Sun

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Appendix B – Approved Tree and Shrub Species

S H R U B S

SCIENTIFIC NAME	COMMON NAME	DROUGHT TOLERANT	E/D	Ht (FEET)	EXPOSURE
<i>Abelia chinensis</i>	Chinese abelia	Yes	D	5 to 7	Sun, partial shade
<i>Abelia hybrids</i>	Abelia cvs: Edward Goucher, Little Richard, Sunrise, etc.	Yes	D	Varies	Sun, partial shade
<i>Abelia x grandiflora</i>	Glossy abelia	Yes	D	3 to 6	Sun, partial shade
<i>Abeliophyllum distichum</i>	White forsythia	Yes	D	3 to 5	Sun, partial shade
<i>Abies concolor (dwarf cultivars)</i>	White fir	Yes	E	Varies	Sun, partial shade
<i>Aesculus parviflora</i>	Bottlebrush buckeye	Yes	D	8 to 12	Sun, partial shade
<i>Agava americana</i>	Century plant	Yes	E	3 to 6	Sun
<i>Amorpha canescens</i>	Leadplant	Yes	D	2 to 4	Sun
<i>Aucuba japonica</i>	Aucuba	Yes	E	6 to 10	Partial shade
<i>Berberis julianae</i>	Wintergreen barberry	Yes	E	6 to 8	Sun, partial shade
<i>Berberis koreana</i>	Korean barberry	Yes	D	4 to 6	Sun, partial shade
<i>Berberis thunbergii</i>	Japanese barberry	Yes	D	3 to 6	Sun, partial shade
<i>Berberis thunbergii</i> var. <i>atropurpurea</i>	Red barberry	Yes	D	3 to 6	Sun, partial shade
<i>Berberis triacanthophora</i>	Threespine barberry	Yes	E	3 to 5	Sun, partial shade
<i>Berberis verruculosa</i>	Warty barberry	Yes	E	3 to 4	Sun, partial shade
<i>Berberis x chenaultii</i>	Chenault barberry	Yes	E	3 to 4	Sun
<i>Berberis x gladwynensis</i> 'William Penn'	William Penn barberry	Yes	E	3 to 4	Sun, partial shade
<i>Berberis x mentorensis</i>	Mentor barberry	Yes	D	5	Sun, partial shade
<i>Buddleia alternifolia</i>	Alternate-leaf butterfly-bush	Yes	D	10 to 20	Sun
<i>Buddleia davidii</i>	Butterfly-bush	Yes	D	10 to 15	Sun
<i>Buddleia golbosa</i>	Orange ball tree	Yes	D	10 to 15	Sun
<i>Buddleia lindleyana</i>	Lindley butterfly-bush	Yes	E	4 to 6	Sun
<i>Buddleia loricata</i>	Butterfly-bush	Yes	E	4 to 5	Sun
<i>Buxus harlandii</i>	Harland boxwood	Yes	E	4 to 6	Sun
<i>Buxus hybrids</i>	Boxwood cvs: Green Mountain, Green Velvet, Wintergreen	Yes	E	2 to 4	Partial shade
<i>Buxus sempervirens</i>	Common boxwood	Yes	E	15 to 20	Partial shade
<i>Buxus sempervirens</i> 'Suffruticosa'	English boxwood	Yes	E	2 to 4	Partial shade
<i>Buxus sinica</i> var. <i>japonica</i>	Japanese boxwood	Yes	E	3 to 6	Partial shade
<i>Buxus sinica</i> (<i>B. microphylla</i>)	Little leaf boxwood	Yes	E	3 to 4	Partial shade
<i>Callicarpa americana</i>	American beautyberry	Yes	D	3 to 8	Sun, partial shade
<i>Callicarpa bodinieri</i>	Bodinier beautyberry	Yes	D	6 to 10	Sun, partial shade
<i>Callicarpa dichotoma</i>	Purple beautyberry	Yes	D	3 to 4	Sun, partial shade
<i>Callicarpa japonica</i>	Japanese beautyberry	Yes	D	4 to 6	Sun, partial shade
<i>Callistemon citrinus</i>	Lemon bottlebrush	Yes	E	10 to 15	Sun
<i>Camellia sasanqua</i>	Sasanqua camellia	Yes	E	6 to 10	Sun, partial shade
<i>Camellia sinensis</i>	Tea camellia	Yes	E	4 to 6	Partial shade
<i>Caryopteris x clandonensis</i>	Blue mist shrub, Blue caryopteris	Yes	D	2 to 3	Sun
<i>Ceanothus americanus</i>	New Jersey tea	Yes	D	3 to 4	Sun, partial shade
<i>Ceanothus x pallidus</i>	Ceanothus	Yes	D	3 to 4	Sun
<i>Cedrus deodara (dwarf cultivars)</i>	Cedar cvs: Snow Sprite, Compacta, etc.	Yes	E	Varies	Sun
<i>Cephalotaxus harringtonia</i>	Japanese plum yew	Yes	E	5 to 10	Partial shade
<i>Choisya ternata</i>	Mexican-orange	Yes	E	6 to 8	Sun, partial shade
<i>Cornus sericea</i> ; (<i>C. stolonifera</i>)	Redosier dogwood	Yes	D	7 to 9	Sun, partial shade
<i>Cotoneaster apiculatus</i>	Cranberry cotoneaster	Yes	D	3	Sun, partial shade
<i>Cotoneaster dammeri</i>	Bearberry cotoneaster	Yes	E	1 to 2	Sun
<i>Cotoneaster divaricatus</i>	Spreading cotoneaster	Yes	D	5 to 6	Sun
<i>Cotoneaster horizontalis</i>	Rockspray cotoneaster	Yes	E	2 to 3	Sun
<i>Cotoneaster lacteus</i>	Parney cotoneaster	Yes	E	6 to 10	Sun, partial shade

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<i>Cotoneaster microphyllus</i>	Little-leaf cotoneaster	Yes	E	2 to 3	Sun, partial shade
<i>Cotoneaster salicifolia</i>	Willowleaf cotoneaster	Yes	E	10 to 15	Sun, partial shade
<i>Cytisus scoparius</i>	Scotch broom	Yes	D	5 to 6	Sun, partial shade
<i>Deutzia gracilis</i>	Slender deutzia	Yes	D	3 to 4	Sun, partial shade
<i>Deutzia hybrids</i>	Deutzia cvs: Pink Minor, Strawberry Fields, Magician, etc.	Yes	D	2 to 4	Sun, partial shade
<i>Diervilla sessilifolia</i>	Southern bush-honeysuckle	Yes	D	3 to 5	Sun, partial shade
<i>Elaeagnus angustifolia</i>	Russian olive	Yes	E	12 to 15	Sun, partial shade
<i>Elaeagnus fruitlandi</i>	Elaeagnus	Yes	E	10	Sun, partial shade
<i>Elaeagnus pungens</i>	Thorny elaeagnus	Yes	E	10 to 15	Sun, partial shade
<i>Elaeagnus x ebbingii</i>	Elaeagnus	Yes	E	8 to 10	Sun, partial shade
<i>Euonymus alatus</i>	Winged euonymus	Yes	D	15 to 20	Sun
<i>Euonymus americana</i>	Strawberry bush	Yes	D	4 to 6	Partial shade
<i>Euonymus japonicus</i>	Japanese euonymus	Yes	E	5 to 10	Sun, partial shade
<i>Euonymus kiautschovicus</i>	Spreading euonymus	Yes	E	8 to 10	Sun, partial shade
<i>Fontanesia fortunei</i>	Fortune's fontanesia	Yes	D	10 to 15	Sun, partial shade
<i>Forsythia x hybrids</i>	Forsythia cvs: Beatrix Farrand, Lynwood Gold, Golden Times, Spring Glory, etc.	Yes	D	Varies	Sun, partial shade
<i>Forsythia x intermedia</i>	Border forsythia	Yes	D	8 to 10	Sun, partial shade
<i>Fothergilla gardenii</i>	Dwarf fothergilla	Yes	D	2 to 3	Sun, partial shade
<i>Fothergilla major</i>	Large fothergilla	Yes	D	6 to 12	Partial shade
<i>Gardenia augusta</i> (G. <i>jasminoides</i>)	Gardenia	Yes	E	4 to 6	Sun, partial shade
<i>Genista pilosa</i>	Silky-leaf woadwaxen	Yes	D	1 to 3	Sun
<i>Hamamelis mollis</i>	Chinese witchhazel	Yes	D	10 to 15	Partial shade to shade
<i>Hamamelis vernalis</i>	Vernal witchhazel	Yes	D	6 to 10	Sun, partial shade
<i>Hydrangea quercifolia</i>	Oakleaf hydrangea	Yes	D	4 to 6	Sun, partial shade
<i>Ilex 'China Boy', 'China Girl'</i>	China holly	Yes	E	8 to 10	Sun, partial shade
<i>Ilex cornuta</i>	Holly cvs: Carissa, Burford, Rotunda, Needlepoint, etc.	Yes	E	2 to 15	Sun
<i>Ilex cornuta</i> cvs.	Holly cvs: Burfordii, D'Or, O' Spring	Yes	E	10 to 25	Sun, partial shade
<i>Ilex crenata</i> cvs.	Holly cvs: Hetz, Helleri, etc.	Yes	E	4 to 10	Sun, partial shade
<i>Ilex decidua</i>	Possomhaw holly	Yes	D	7 to 15	Sun, partial shade
<i>Ilex glabra</i>	Inkberry holly	Yes	E	6 to 8	Sun, partial shade
<i>Ilex latifolia</i>	Lusterleaf holly	Yes	E	20 to 25	Sun, partial shade
<i>Ilex vomitoria</i>	Yaupon holly	Yes	E	15 to 20	Sun, partial shade
<i>Ilex vomitoria</i> cvs.	Holly cvs: Nana, Schillings, Katherine, etc.	Yes	E	Varies	Sun, partial shade
<i>Ilex x 'Nellie R. Stevens'</i>	Nellie Stevens holly	Yes	E	15 to 25	Sun, partial shade
<i>Ilex x 'Emily Bruner'</i>	Emily Bruner holly	Yes	E	15 to 20	Sun, partial shade
<i>Ilex x 'Mary Nell'</i>	Mary Nell holly	Yes	E	10 to 20	Sun, partial shade
<i>Ilex x koehneana</i>	Koehne holly	Yes	E	Varies	Sun, partial shade
<i>Indigofera amblyantha</i>	Indigofera	Yes	D	4 to 6	Sun
<i>Indigofera heterantha</i>	Himalayan indigo	Yes	D	4 to 6	Sun
<i>Itea virginica</i>	Virginia sweetspire	Yes	D	3 to 5	Sun, partial shade
<i>Jasminum floridum</i>	Showy jasmine	Yes	E	3 to 5	Sun, partial shade
<i>Jasminum humile</i>	Italian yellow jasmine	Yes	E	5 to 7	Partial shade
<i>Jasminum nudiflorum</i>	Winter jasmine	Yes	D	3 to 4	Sun, partial shade
<i>Juniperus chinensis</i>	Chinese juniper cvs: Wintergreen, Spartan, Hooks, etc.	Yes	E	12 to 50	Sun
<i>Juniperus chinensis</i> (dwarf cultivars)	Chinese juniper cvs: Procumbens Nana, Berkshire, Sargentii, Hetzi, etc.	Yes	E	3 to 12	Sun
<i>Juniperus communis</i>	Common juniper	Yes	E	5 to 10	Sun
<i>Juniperus conferta</i> cvs.	Juniper cvs: Blue Lagoon, Blue Pacific, Boulevard, etc.	Yes	E	1 to 2	Sun
<i>Juniperus davurica</i> cvs.	Parsons juniper	Yes	E	2 to 3	Sun

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<i>Juniperus horizontalis</i>	Juniper cvs: Blue Vase, Blue Chip, Wiltonii, etc.	Yes	E	1 to 2	Sun
<i>Juniperus hybrids</i>	Juniper cvs: Saybrook Gold, etc.	Yes	E	Varies	Sun
<i>Juniperus procumbens</i>	Japanese garden juniper	Yes	E	.5 to 1.5	Sun
<i>Juniperus rigida</i>	Needle juniper	Yes	E	15 to 20	Sun
<i>Juniperus sabina</i>	Savin juniper	Yes	E	4 to 6	Sun
<i>Juniperus scopulorum</i> (dwarf cultivars)	Juniper cvs: Blue Creeper, Skyrocket, etc.	Yes	E	Varies	Sun
<i>Juniperus squamata</i> cvs.	Juniper cvs: Holger, Blue Elf, Calgary Carpet, Blue Satr, etc.	Yes	E	Varies	Sun
<i>Juniperus virginiana</i> cvs.	Juniper cvs: Blue Mountain, Blue Cloud, Grey Owl, etc.	Yes	E	Varies	Sun
<i>Juniperus x media</i>	Juniper cvs: Seagreen, Old Gold, etc.	Yes	E	Varies	Sun
<i>Kalmia latifolia</i>	Mountain laurel	Yes	E	4 to 8	Sun, partial shade
<i>Kolkwitzia amabilis</i>	Beautybush	Yes	D	6 to 10	Sun
<i>Lagerstroemia indica</i> and hybrids	Crape myrtle cvs: New Orleans, Centennial, Chica, Tonto, Acoma, etc.	Yes	D	5 to 15	Sun
<i>Lantana camera</i>	Lantana	Yes	D	1 to 5	Sun
<i>Lavandula angustifolia</i>	Common lavender	Yes	E	1 to 2	Sun
<i>Lavandula x intermedia</i>	Hybrid lavender	Yes	E	1 to 2	Sun
<i>Lespedeza thunbergii</i>	Thunberg lespedeza	Yes	D	3 to 6	Sun
<i>Lespedeza bicolor</i>	Shrub bushclover	Yes	D	6 to 10	Sun
<i>Ligustrum japonicum</i>	Japanese privet	Yes	E	6 to 12	Sun, partial shade
<i>Ligustrum lucidum</i>	Waxleaf privet	Yes	E	20 to 25	Sun, partial shade
<i>Ligustrum x vicaryi</i>	Vicary golden privet	Yes	E	10 to 12	Sun
<i>Lindera benzoin</i>	Spice bush	Yes	D	6 to 12	Sun, partial shade
<i>Lonicera fragrantissima</i>	Winter honeysuckle	Yes	D	6 to 10	Sun, partial shade
<i>Lonicera nitida</i>	Boxleaf honeysuckle	Yes	E	6 to 8	Sun, partial shade
<i>Lonicera pileata</i>	Privet honeysuckle	Yes	E	2 to 3	Sun, partial shade
<i>Loropetalum chinensis</i>	Loropetalum	Yes	E	6 to 12	Sun, partial shade
<i>Loropetalum hybrids</i>	Loropetalum cvs: Plum Delight, Ruby, Fire Dance, etc.	Yes	E	4 to 10	Sun, partial shade
<i>Mahonia aquifolium</i>	Oregon grape holly	Yes	E	3 to 6	Partial shade
<i>Mahonia bealei</i>	Leatherleaf mahonia	Yes	E	6 to 7	Partial shade
<i>Mahonia fortunei</i>	Chinese mahonia	Yes	E	5 to 6	Partial shade
<i>Mahonia x media</i>	Mahonia cvs: Buckland, Charity, Faith, etc.	Yes	E	8 to 15	Partial shade
<i>Michelia figo</i>	Banana shrub	Yes	E	6 to 10	Sun, Partial shade
<i>Myrica cerifera</i>	Southern waxmyrtle	Yes	E	10 to 15	Sun, partial shade
<i>Myrica pensylvanica</i>	Northern bayberry	Yes	E	5 to 12	Sun, partial shade
<i>Nandina domestica</i>	Nandina	Yes	E	6 to 8	Sun, partial shade
<i>Perovskia atriplicifolia</i>	Russian sage	Yes	E	3 to 5	Sun
<i>Photinia serrulata</i>	Chinese photinia	Yes	E	20 to 25	Sun, partial shade
<i>Physocarpus opulifolius</i>	Ninebark	Yes	D	5 to 10	Sun, partial shade
<i>Picea abies</i> (dwarf cultivars)	Spruce cvs: Little Gem, Pendula, etc.	Yes	E	Varies	Sun
<i>Picea glauca</i> (dwarf cultivars)	Spruce cvs: Conica, etc.	Yes	E	Varies	Sun
<i>Picea pungens</i> (dwarf cultivars)	Spruce cvs: Globosa, Montgomery, Bakeri, Fat Albert, Foxtail, etc.	Yes	E	Varies	Sun
<i>Pinus mugo</i>	Mugo pine	Yes	E	15 to 20	Sun, partial shade
<i>Pinus mugo</i> (dwarf cultivars)	Pine cvs: Pumilio, Mughus	Yes	E	Varies	Sun
<i>Pinus nigra</i> cvs.	Pine cvs: Arnold Sentinel, Monstrosa, ec.	Yes	E	3 to 5	Sun
<i>Pinus rigida</i>	Pine cvs: Sherman Eddy, etc	Yes	E	15 to 20	Sun
<i>Pinus sylvestris</i> (dwarf cultivars)	Pine cvs: Nana, Hillside Creeper, etc.	Yes	E	Varies	Sun

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<i>Pinus thunbergii</i> (dwarf cultivars)	Pine cvs: Nana, Thunderhead	Yes	E	Varies	Sun
<i>Pittosporum tobira</i>	Japanese pittosporum	Yes	E	10 to 12	Sun, partial shade
<i>Podocarpus macrophyllus</i> var. <i>maki</i>	Shrubby podocarpus	Yes	E	20 to 35	Sun, partial shade
<i>Potentilla fruticosa</i>	Shrubby potentilla	Yes	D	1 to 4	Sun, partial shade
<i>Prunus glandulosa</i>	Flowering almond	Yes	D	4 to 5	Sun, partial shade
<i>Prunus laurocerasus</i>	English laurel	Yes	E	10 to 18	Sun, partial shade
<i>Punica granatum</i>	Pomegranate	Yes	D	12 to 15	Sun, partial shade
<i>Pyracantha coccinea</i>	Scarlet firethorne	Yes	E	6 to 18	Sun
<i>Pyracantha hybrids</i>	Pyracantha cvs: Mohave, Mojave, Red Elf, Tiny Tim, etc.	Yes	E	Varies	Sun
<i>Pyracantha koidzumii</i>	Formosa pyracantha	Yes	E	8 to 12	Sun
<i>Raphiolepis hybrids</i>	Hawthorn cvs: Gulfgreen, Cuppertone	Yes	D	3 to 6	Sun
<i>Rhamnus fragula</i>	Alder buckthorn	Yes	D	10 to 12	Sun, partial shade
<i>Raphiolepis x delacourii</i>	Indian hawthorn, Yeddo hawthorn	Yes	E	3 to 4	Sun, partial shade
<i>Rhaphidophyllum hystrix</i>	Needle palm	Yes	E	6 to 8	Sun, partial shade
<i>Rhododendron austrinum</i>	Florida azalea	Yes	D	8 to 10	Partial shade
<i>Rhododendron scandulaceum</i>	Flame azalea	Yes	D	4 to 8	Partial shade
<i>Rhodotypos scandens</i>	Black jetbead	Yes	D	3 to 6	Sun, partial shade
<i>Rhus aromatica</i>	Sumac	Yes	D	2 to 6	Sun, partial shade
<i>Rhus glabra</i>	Smooth sumac	Yes	D	10 to 15	Sun
<i>Rhus michauxii</i>	Michaux's sumac	Yes	D	2 to 3	Sun
<i>Rhus typhina</i>	Staghorn sumac	Yes	D	15 to 25	Sun
<i>Rosa chinensis</i>	China rose	Yes	D	6 to 8	Sun
<i>Rosa rugosa</i>	Rugosa rose	Yes	D	4 to 6	Sun
<i>Rosmarinus officinalis</i>	Rosemary	Yes	E	2 to 4	Sun
<i>Ruscus aculeatus</i>	Butcher's broom	Yes	E	1.5 to 3	Partial shade
<i>Sabal minor</i>	Dwarf palmeto	Yes	E	3 to 5	Sun
<i>Santolina chamaecyparissus</i>	Santolina, Lavender cotton	Yes	E	1 to 2	Sun
<i>Sarcococca confusa</i>	Sweet Box	Yes	E	3 to 5	Partial shade
<i>Sarcococca hookeriana</i>	Himalayan sarcococca	Yes	E	4 to 6	Partial shade
<i>Sarcococca orientalis</i>	Oriental sweetbox	Yes	E	2 to 3	Partial shade
<i>Sarcococca ruscifolia</i>	Fragrant sarcococca	Yes	E	2 to 3	Partial shade
<i>Sinojackia rehderiana</i>	Jacktree	Yes	D	15 to 20	Sun, partial shade
<i>Spiraea cantoniensis</i>	Double Reeves spirea	Yes	D	4 to 6	Sun, partial shade
<i>Spiraea japonica</i>	Japanese spirea	Yes	D	4 to 5	Sun, partial shade
<i>Spiraea nipponica</i> 'Snowmound'	Snowmound spirea	Yes	D	3 to 5	Sun, partial shade
<i>Spiraea prunifolia</i>	Bridalwreath spirea	Yes	D	4 to 9	Sun, partial shade
<i>Spiraea thunbergii</i>	Thunberg spirea	Yes	D	3 to 5	Sun, partial shade
<i>Spiraea x bumalda</i>	Bumalda spirea	Yes	D	2 to 3	Sun, partial shade
<i>Spiraea x vanhouttei</i>	Vanhoutte spirea	Yes	D	6 to 8	Sun, partial shade
<i>Syringa pekinensis</i>	Peking lilac	Yes	D	15	Sun
<i>Taxus chinensis</i>	Chinese yew	Yes	E	5 to 10	Sun, partial shade
<i>Teucrium chamaedrys</i>	Wall germander	Yes	E	1 to 1.5	Sun
<i>Ulmus galbra</i> 'Horizontalis'	Tabletop scotch elm	Yes	D	15	Sun
<i>Viburnum acerifolium</i>	Maple-leaf viburnum	Yes	D	4 to 6	Partial shade
<i>Viburnum awabuki</i>	Chindo Viburnum	Yes	E	10 to 15	Sun, partial shade
<i>Viburnum tinus</i>	Laurustinus	Yes	E	6 to 12	Sun, partial shade
<i>Viburnum x pragense</i>	Pragense viburnum	Yes	E	8 to 10	Sun, partial shade
<i>Vitex agnus castus</i>	Chastetree	Yes	D	15 to 20	Sun
<i>Vitex negundo</i>	Chastetree	Yes	D	10 to 20	Sun
<i>Xanthorrhiza simplicissima</i>	Yellowroot	Yes	D	2 to 3	Sun, partial shade
<i>Yucca filamentosa</i>	Adam's needle yucca	Yes	E	2 to 4	Sun
<i>Yucca flaccida</i>	Weakleak yucca	Yes	E	1 to 2	Sun
<i>Yucca gloriosa</i>	Spanish dagger yucca	Yes	E	6 to 8	Sun

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