

Species Ratings for Landscape Tree Appraisal in Southern Nevada

This document establishes species ratings to be used by tree appraisal experts with the trunk formula method for appraising the monetary value of trees in Southern Nevada.

From time to time, the dollar value of a landscape tree needs to be determined for insurance purposes, tree inventories etc.. The Trunk Formula Method is the most widely used way to determine those values for larger trees. Once the basic value is determined, it is adjusted based on the species, condition, and location of the tree. This document provides a rating for each tree “species” commonly grown in Southern Nevada.

[The complete tree appraisal procedure is described in detail in the “Guide for Plant Appraisal” prepared by the Council of Tree and Landscape Appraisers and published by the International Society of Arboriculture (9th edition, available from ISA, P.O. Box 3129, Champaign, IL 61826. <http://www.isa-arbor.com/home.aspx>]

Listed below are the species ratings of trees, by botanical name, known to be grown in Southern Nevada. The ratings are expressed as percentages between 5% to 100% (100 being the highest). The ratings are based on a tree’s attributes such as growth characteristics, maintenance requirements, aesthetics, resistance to insect and/or disease infestations, drought tolerance and longevity.

Each species is given a rating range of about 20 points within which most trees of that species will likely fall. Ratings should be adjusted within or even outside of the given range if local conditions require. Species ratings should be based only on overall species-related factors, without regard to condition or location factors that are tied to a specific tree and its site.

These species ratings and the related appraisal methods are generally for trees in developed landscapes where the tree lends considerable aesthetic and functional contribution to the site.

Appraisal of landscape trees and adjustment of the species ratings included in this document should only be performed by persons familiar in use of the appraisal techniques. These persons must also be knowledgeable about the species involved, site conditions, and about trees and tree biology.

The species ratings below are based on the knowledge and opinions of several experts involved in tree care in the area. We welcome input and advice.

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BOTANICAL	CULTIVAR	COMMON	% RATING %
Abies concolor		White Fir	60-80
Acacia aneura		Mulga	80-100
Acacia baileyana		Acacia, Bailey	40-60
Acacia constricta		White Thorn Acacia	60-80
Acacia greggii		Catsclaw Acacia	60-80
Acacia schaffneri		Twisted Acacia	60-80
Acacia smallii	'Farnesiana'	Acacia, Sweet	80-100
Acacia stenophylla		Acacia, Shoestring	80-100
Albizia julibrissin		Silk tree or Mimosa	40-60
Aracastrom romanzoffianum		Palm, Queen	40-60
Arbutus unedo		Strawberry Tree	60-80
Brachychiton acerifolium		BottleTree, Australian (flame)	40-60
Brachychiton populneus		BottleTree	60-80
Brahea armata		Palm, Mexican Blue	60-80
Butia capitata		Palm, Pindo	60-80
Callistemon citrinus		Bottlebrush, Lemon	40-60
Callistemon viminalis		Bottlebrush, Brilliant (weeping)	40-60
Carya linoensis		Pecan	40-60
Casuarina equisetifolia		Beefwood, Horsetail	20-40
Casuarina stricta		Beefwood, Coast	20-40
Catalpa bignonioides		Catalpa, Common	20-40
Cedrus atlantica	'Glauca'	Cedar, Blue Atlas	40-60
Cedrus deodara		Cedar, Deodar	40-60
Celtis occidentalis		Hackberry, Common	60-80
Celtis reticulata (douglasii)		Hackberry, Western	60-80
Ceratonia siliqua		Carob	40-60
Cercidium X 'Desert Museum'		Desert Museum Palo Verde	80-100
Cercidium floridum		Palo Verde, Blue	80-100
Cercidium microphyllum		Palo Verde, Littleleaf	60-80
Cercis canadensis		Redbud, Eastern	60-80
Cercis occidentalis		Redbud, Western	60-80
Cercocarpus ledifolius		Mahogany, Mountain	40-60
Chamaerops humilis		Palm, Mediterranean Fan	80-100
x Chitalpa tashkentensis		Chitalpa	40-60
Chilopsis linearis		Willow, Desert	80-100
Citrus aurantiifolia	tree-sized	Lime	40-60
Citrus limon		Lemon	60-80
Citrus meyeri	tree-sized	Meyer Lemon	60-80
Cordi boissieri		Texas Olive	60-80
Cotinus coggygria		Smoke Tree	40-60
Cupressocyparis leylandii		Cypress, Leyland	5-20
Cupressus arizonica		Cypress, Arizona	20-40
Cupressus glabra		Cypress, Smooth Arizona	20-40
Cupressus sempervirens		Cypress, Italian	60-80
Cycas revoluta		Sago Palm	60-80
Dalbergia sissoo		Sissoo	40-60
Elaeagnus angustifolia		Olive, Russian	5-20
Eriobotrya deflexa		Loquat, Bronze	60-80
Eriobotrya japonica		Loquat Japanese	60-80
Eucalyptus microtheca		Coolibah Tree	60-80
Eucalyptus polyanthemos		Gum, Silver Dollar	40-60

<i>Eucalyptus rudis</i>		Gum, Swamp	40-60
<i>Eucalyptus sideroxylon</i>		Ironbark, Pink or Red	20-40
<i>Eucalyptus spathulata</i>		Narrow-leaved Gimlet	20-40
<i>Eysenhardtia orthocarpa</i>		Kidneywood	60-80
<i>Feijoa sellowiana</i>		Guava, Pineapple	60-80
<i>Ficus carica</i>		Fig, Common, Edible	60-80
<i>Fraxinus greggii</i>		Littleleaf Ash	60-80
<i>Fraxinus oxycarpa</i>	'Raywood'	Ash, Raywood	60-80
<i>Fraxinus uhdei</i>		Ash, Shamel	40-60
<i>Fraxinus velutina</i>		Ash, Arizona	80-100
<i>Fraxinus velutina</i>	'Rio Grande'	Ash, Fan Tex	80-100
<i>Fraxinus velutina glabra</i>		Ash, Modesto	80-100
<i>Geijera parviflora</i>		Willow, Australian	20-40
<i>Ginkgo biloba</i>	male cultivars	Maidenhair tree	40-60
<i>Gleditsia triacanthos</i>	cultivars	Locust, Common	80-100
		Honey	
<i>Ilex x altaclarensis</i>	'Wilsonii'	Holly, Wilson	60-80
<i>Jacaranda mimosifolia</i>		Jacaranda	5-20
<i>Juniperus chinensis</i>	'Kaizuka'	Juniper, Hollywood	20-40
<i>Koelreuteria bipinnata</i>		Flame tree, Chinese	40-60
<i>Koelreuteria paniculata</i>		Rain Tree, Golden	60-80
<i>Lagerstroemia hybrids</i>		Crape Myrtle Hybrids	60-80
<i>Lagerstroemia indica</i>		Crape Myrtle	60-80
<i>Laurus nobillis</i>		Laurel, Grecian	60-80
<i>Ligustrum japonicum</i>		Privet, Japanese	40-60
<i>Ligustrum lucidum</i>		Privet, Glossy	60-80
<i>Magnolia grandiflora</i>		Magnolia, Southern	40-60
<i>Malus</i>	species	Crabapple	40-60
<i>Melia azedarach</i>	'Umbraculiformis'	Chinaberry (Umbrella tree)	40-60
<i>Morus alba</i>	'Fruitless'	Mulberry, White, Fruitless	60-80
<i>Nerium oleander</i>	'Standard'	Oleander	40-60
<i>Olea europae</i>		Olive, Common	80-100
<i>Olea europae</i>	'Swan Hill'	Swan Hill Fruitless Olive	80-100
<i>Olea europae</i>	'Wilson'	Wilson Fruitless Olive	80-100
<i>Parkinsonia aculeata</i>		Palo Verde, Texas	40-60
<i>Paulownia tomentosa</i>		Empress Tree	5-20
<i>Phoenix canariensis</i>		Palm, Date, Canary Island	60-80
<i>Phoenix dactylifera</i>		Palm, Date	60-80
<i>Phoenix reclinata</i>		Palm, Date, Senegal	20-40
<i>Photinia fraseri</i>		Photinia, Redleaf	20-40
<i>Photinia serrulata</i>		Photinia, Chinese	40-60
<i>Pinus aristata</i>		Pine, bristlecone	60-80
<i>Pinus canariensis</i>		Pine, Canary Island	40-60
<i>Pinus edulis</i>		Pine, Pinon	60-80
<i>Pinus eldarica</i>		Pine, Mondel	80-100
<i>Pinus halepensis</i>		Pine, Aleppo	60-80
<i>Pinus monophylla</i>		Pine, Single Leaf Pinon	60-80
<i>Pinus mugo</i>		Pine, Mugo	40-60
<i>Pinus pinea</i>		Pine, Italian Stone	80-100
<i>Pinus ponderosa</i>		Pine, Ponderosa	60-80
<i>Pinus roxburghii</i>		Pine, Chir	40-60
<i>Pinus thunbergiana</i>		Pine, Japanese Black	40-60
<i>Pistachia atlantica</i>		Pistache, Mt. Atlas	40-60
<i>Pistachia chinensis</i>		Pistache, Chinese	80-100
<i>Pistachia vera</i>		Pistachio Nut Tree	40-60

Pithecellobium flexicaule		Ebony, Texas	60-80
Pittosporum phillyraeoides		Pittosporum, Willow	60-80
Platanus racemosa		Sycamore, California	20-40
Platanus wrightii		Sycamore, Arizona	40-60
Platanus x acerifolia		London Plane	40-60
Platanus x acerifolia	'Bloodgood'	Sycamore, London Plane	40-60
Podocarpus gracilior		Pine, Fern	40-60
Podocarpus macrophyllus		Pine, Yew Podocarpus	40-60
Populus alba		Poplar, White	40-60
Populus fremontii		Cottonwood, Fremont Western	40-60
Populus nigra	'Italica'	Poplar, Lombardy	5-20
Prosopis hybrid		Hybrid Mesquite	40-60
Prosopis alba		Argentine Mesquite	40-60
Prosopis pubescens		Screwbean Mesquite	60-80
Prosopis torryana		Native Mesquite	60-80
Prosopis velutina		Native Mesquite	60-80
Prunus amygdalus		Almond, Edible	60-80
Prunus caroliniana		Cherry Laurel, Carolina	40-60
Prunus cerasifera	'Pissardii'	Plum, Purple Leaf Plum	40-60
Prunus cerasifera	'Krauter's vesuvius'	Purple Leaf Plum	40-60
Prunus cerasifera	'Thundercloud'	Purple Leaf Plum	40-60
Prunus dulcis		Apricot, Edible	40-60
Prunus dulcis		Almond, Edible	40-60
Prunus persica		Peach	40-60
Prunus x blireiana		Plum, Blirelana Purple	40-60
Punica granatum		Pomegranate	80-100
Pyrus calleryana	cultivars	Pear, Callery	40-60
Pyrus calleryana	Bradford	Bradford Ornamental Pear	40-60
Pyrus communis		Pear	40-60
Pyrus kawakamii		Pear, Evergreen	40-60
Quercus fusiformis		Escarpment Oak	60-80
Quercus ilex		Oak, Holly	60-80
Quercus lobata		Oak, Valley	60-80
Quercus macrocarpa		Oak, Mossy Cup Bur	60-80
Quercus muehlenbergii		Oak, Chinkapin	60-80
Quercus texana (buckleyi)		Texas Red Oak	60-80
Quercus virginiana		Oak, Southern Live	60-80
Raphiolepis	'Majestic Beauty'	Majestic Beauty Indian Hawthorn	40-60
Rhus lancea		Sumac, African	60-80
Robinia pseudoacacia		Locust, Black	40-60
Robinia x ambigua	'Idahoensis'	Locust, Idaho	40-60
Salix babylonica		Willow, Weeping	5-20
Salix goodingii		Gooding's Willow	60-80
Salix matsudana	'Navajo'	Willow, Navajo Globe	20-40
Sambucus sp.		Elderberry	40-60
Sapium sebiferum		Tallow Tree, Chinese	40-60
Schinus molle		Pepper Tree, California	40-60
Sophora secundiflora		Texas Mountain Laurel	60-80
Tamarix aphylla		Tamarisk	5-20
Thuja occidentalis		Arborvitae	40-60
Thuja orientalis		Arborvitae, Oriental	40-60
Trachycarpus fortunei		Palm, Windmill	60-80

<i>Ulmus parvifolia</i>	Elm, Chinese Evergreen	80-100
<i>Ulmus pumila</i>	Elm, Siberian	5-20
<i>Vitex agnus-castus</i>	Chaste Tree	80-100
<i>Washingtonia filifera</i>	Palm, California Fan	60-80
<i>Washingtonia robusta</i>	Palm, Mexican Fan	60-80
<i>Xylosma congestum</i>	Xylosma	60-80
<i>Yucca brevifolia</i>	Joshua Tree	60-80
<i>Zelkova serrata</i>	Zelkova, Japanese or Sawleaf	60-80
<i>Ziziphus jujuba</i>	Chinese Date; Jujube	60-80