

*Southern Nevada Water Authority &
Southern Nevada Regional Planning Coalition*

Regional Plant List

December 2021



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SOUTHERN NEVADA WATER AUTHORITY™

Acknowledgements

This Regional Plant List is the product of countless hours of work from members of the Southern Nevada Regional Planning Coalition's (SNRPC) Regional Urban Forestry Work Group and local arboriculture and horticulture experts. Special thanks to the following individuals:

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Prohibited Plants

The following plants are no longer sold or allowed to be planted in Southern Nevada because they are on the State of Nevada's noxious weed list or are banned by the Clark County Health District for their allergenic properties. This list is subject to change.

Canopy coverage under the Water Smart Landscapes program for existing plantings:

- Green/Crimson Fountain Grass (*Pennisetum setaceum*) - 7 sq. ft.
- Fruitless Mulberry Tree (*Morus alba*) - 722 sq. ft.
- Fruiting Olive Tree (*Olea europaea*) - 530 sq. ft.
- Chaste Tree (*Vitex agnus-castus*) - 368 sq. ft.

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Introduction

The Southern Nevada Regional Planning Coalition (SNRPC) and the Southern Nevada Water Authority (SNWA) are pleased to present this list of plants for the Southern Nevada region.

The original 2011 list was created by SNRPC's Regional Urban Forestry Working Group in conjunction with local experts including arborists, horticulturists, and urban foresters. Much of the effort was built on the foundations of excellent local resources such as the Nevada Division of Forestry's 2007 *Cleaner Air, Tree by Tree* and the 2005 Centennial edition of *Trees for Tomorrow*, a project of the High Desert Resource Conservation & Development Council. Both projects were made possible by grants from the Nevada Division of Forestry and the United States Forest Service.

The 2021 update was produced by a reconvened working group of local experts. The most notable revisions are to the Tree section, with an emphasis on deterring use of tree species poorly adapted to current and future conditions.

The intent of this list is to provide a single, region-wide reference for homeowners, landscape designers, architects and developers to select appropriate plants when designing their projects in the Las Vegas area. In addition, it is a tool for those who review those projects—such as city planners—to determine if those plants meet applicable codes and ordinances. Lastly, it contains information on plant canopy coverage, which is used by the SNWA in the Water Smart Landscapes incentive program.

Current and changing conditions in our region make proper plant selection more important than ever. The Las Vegas area is one of the fastest growing urban heat islands, and climate projections suggest it will become hotter and drier in the future. Choosing climate resilient plants that can survive and thrive in these conditions can help to moderate these effects to sustain and enhance quality of life in our community.

For the 2021 update, the Trees, Palms and Cycads sections now include a rating system from 1-5 stars, with 1 stars being inappropriate and 5 stars highly-appropriate for our region. A plant's rating is based on a number of important factors related to climate resilience such as environmental tolerances, water efficiency, drought tolerance, pathogen resistance and maintenance demands. Additional consideration was given to the potential for the plant to increase or decrease the diversity of our urban forest.

For example, *Prunus cerasifera* 'Atropurea' "Purple Leaf Plum" has a 1-star rating due to its heat sensitivity, poor drought tolerance, and susceptibility to pests. *Acacia aneura* "Mulga Acacia," on the other hand, has a 5-star rating because it is a well adapted desert plant with few pests, and it is not widely planted, so it has potential to diversify the urban forest.

This list is not intended to be a list of the only plants allowed in the region, nor is it intended to be an exhaustive, comprehensive list of all desert-appropriate plants. In addition, it is not intended to restrict what plants residents choose to plant in their yards. Rather, we hope that this list will help residents and developers make informed decisions about which plants to choose.

How to Use the List

The list is divided between trees and other plants, including shrubs, groundcovers, vines, succulents and perennials. It is sorted alphabetically by botanical name and includes the common names of the plants. **You may use "Ctrl+F" to search the document for any term.** Several columns of attributes can be used to determine which plants are appropriate to use in specific situations.

Tree ratings depend upon a variety of factors, which are generally noted in the "comments" column.

1. **Organic mulch** – doesn't perform well without an organic surface treatment, such as wood chips or leaf litter, rather than crushed rock.
2. **Many cultivars** – your nursery may have numerous named cultivars of the same plant species.
3. **Overplanted** - A plant heavily used in the region and at risk for a catastrophic loss of urban tree canopy under adverse conditions.
4. **Poor environmental tolerance** – Likely to be damaged by cold, heat or other environmental issues.
5. **Invasive Species** – a plant that reproduces aggressively into urban or natural ecosystems, some of which may be prohibited by law.
6. **Mojave native** – A plant that grows naturally in some parts of the Mojave Desert.
7. **Poor Drought Tolerance** – unable to persist through prolonged conditions of low soil moisture.
8. **Susceptible to Pests** – Commonly attacked by diseases or insects.
9. **Short lifespan** – not expected to achieve the expected lifespan under local conditions.
10. **Protected microclimate required** – Capable of thriving, but only if protected from the harshest summer conditions, such as east and north-facing exposures.

Process for Review and Amendment

The SNWA/SNRPC Plant List is intended to be a living document and will therefore be open to periodic review and amendment. Requests to add plants or modify information must be submitted to the SNWA Conservation Division by emailing conservation@snwa.com. Requests should include the following information at a minimum:

1. the applicant's name and contact information
2. the botanical and common name(s) of the plant(s) to be considered.
3. for the revision to be considered, and supporting documentation.
4. For new plants, documentation shall include the plants' proposed attributes and information regarding the plant's history and performance in similar climates.
5. Supporting documentation must be verified by a certified arborist or horticulturist.

KEY																							
Rating: Based on a combination of factors related to climate resiliency such as environmental tolerances (heat, cold), water efficiency, drought tolerance, pathogen resistance, along with some additional factors like diversity, maintenance needs, and invasiveness. Plants rated from 1★ (least appropriate) to 5★ (most appropriate)			Comments:																				
Tree Size (based on both height and width): <u>S</u> mall (< 20 ft), <u>M</u> edium (20-29 ft), <u>L</u> arge (30- 45ft), <u>E</u> xtra Large (>45ft)																							
Tree Type: <u>D</u> eciduous, <u>E</u> vergreen, <u>S</u> emi-evergreen																							
Growth Rate: <u>S</u> low, <u>M</u> oderate, <u>E</u> ast																							
Water Needs: <u>V</u> ery Low, <u>L</u> ow, <u>M</u> oderate, <u>H</u> igh																							
Excessive Litter: <u>L</u> eaves, <u>F</u> lowers, <u>S</u> eeds/Fruit																							
Biogenic Volatile Organic Compounds: <u>L</u> ow, <u>M</u> edium, <u>H</u> igh, or data not available ----																							
Botanical Name	Cultivar	Common Name	Rating	Tree Size	Height (average)	Width (average)	Coverage	Tree Type	Growth Rate	Water Needs	Excessive Litter	Spines or Thorns	Biogenic Volatile Organic Compounds	Yes or No	Parking Lot Tree	Street Tree	Buffer Tree	Minimum Soil Surface Area	Minimum Soil Volume	Tolerates Compacted Soil	Compatible with Turf Grass	Compatible with Overhead Utilities	Comments
S, M, L, X			(feet)	(feet)	(sq. feet)	D, E, S	S, M, F	V, L, M, H	L, F, S	Yes or No	L, M, H	Yes or No	Yes or No	Yes or No	(sq. feet)	(cu. feet)	Yes or No	Yes or No	Yes or No	Yes or No	Yes or No		
TREES																							
Acacia aneura		Mulga Acacia	5★	M	20	15	133	E	S	V	----	N	M	Y	Y	Y	120	200	N	N	Y		
Acacia baileyana	'Purpurea'	Cootamundra Wattle	2★	M	20	15	133															4,9,10	
Acacia coriacea		Desert Oak, Wiry Wattle	4★	M	20	20	236	E	M	L	N	N	L	Y	Y	Y	120	500	Y	N	Y		
Acacia estrophiolata		Ironwood	4★	M	25	25	368	E	M	V	----	N	----	Y	Y	Y	120	500	Y	N	N		
Acacia jennerae		Coonawitra Wattle	4★	M	20	15	133	E	S	L	----	N	----	Y	Y	Y	120	200	N	N	N		
Acacia pendula		Weeping Acacia	5★	M	25	20	236	E	M	V	S	N	M	Y	Y	Y	120	350	Y	N	N		
Acacia salicina		Willow Acacia	4★	L	30	20	236	E	F	L	L	N	----	Y	Y	Y	200	350	Y	N	N		
Acacia cupularis (=saligna)		Blue Leaf Wattle	3★	M	25	20	236	E	M	F	L	L	N	----	Y	Y	Y	120	350	Y	N	N	5
Acacia stenophylla		Shoestring Acacia	3★	L	40	20	236	E	M,F	L	L,S	N	L	Y	Y	Y	200	350	Y	N	N	3, 5	
Acer tataricum ssp. ginnala		Amur Maple	3★	S	15	15	133	D	S	H	L	N	----	N	N	N	80	200	N	Y	Y	1,7	
Acer negundo		Box Elder	2★	L	30	30	530															1,2,6,7,9	
Acer palmatum var. atropurpureum		Dwarf Japanese Maple	1★	S	12	12	85															1,2,4,7,10	
Afrocarpus falcatus		African Fern Pine	2★	M	25	15	133															1,4,10	
Ailanthus altissima		Tree of Heaven	1★	L	35	35	722															4,5,7,8,9	
Albizia lebbekoides (=julibrissin)		Mimosa, Silk Tree	1★	L	25	30	530															5,8,9,10	
Arbutus unedo		Strawberry Tree	3★	S	15	15	133	E	S	M	S	N	L	N	N	N	80	200	N	N	Y	4,7,10	
Arbutus x andrachnoides	'Marina'	Marina Strawberry Tree	3★	M	25	25	368	E	S	M	S	N	L	N	N	N	120	500	N	Y	Y	1,4,7,10	
Bauhinia lunarioides		Anacacho Orchid Tree	5★	S	12	12	85	D	M	L	----	N	----	N	N	N	80	200	N	N	Y	1	
Bauhinia macranthera		Chihuahuan Orchid Tree	4★	S	12	15	133	D	M	L	----	N	----	N	N	N	80	200	N	N	Y	1	
Bauhinia purpurea		Purple Orchid Tree, Butterfly Tree	2★	M	25	25	368															1,4,9,10	
Bouhinia x blakeana		Hong Kong Orchid Tree	2★	M	25	20	236															1,4,9,10	
Brachychiton acerifolius		Illawarra Flame Tree	2★	L	30	20	236															1,4,7,9	
Brachychiton populneus		Bottle Tree	2★	L	30	20	236															1,4,7,9	
Callistemon viminalis		Weeping Bottlebrush	3★	S	18	15	133	E	M	M	----	N	H	N	N	N	80	200	N	Y	Y	1	
Calocedrus decurrens		Incense Cedar	2★	L	30	10	59															4,7	
Casuarina cunninghamiana		River She Oak	4★	L	30	20	236	E	F	M	L	N	----	N	N	Y	200	400	N	N	N		
Casuarina equisetifolia		Australian Pine	4★	L	30	20	236	E	F	M	L	N	----	N	N	Y	200	400	N	N	N		
Cedrus atlantica	'Glauca'	Blue Atlas Cedar	3★	L	40	20	236	E	M	M	----	N	L	N	N	Y	200	300	N	Y	N	1	
Cedrus deodora		Deodar Cedar	2★	X	60	30	530															1,4,7,9	
Celtis australis		Mediterranean Hackberry	4★	L	45	35	722	D	M	M	L	N	----	N	Y	N	200	1300	N	Y	N	1	
Celtis occidentalis		Common Hackberry	4★	L	45	30	530	D	F	M	L	N	----	N	Y	N	200	1000	N	N	N	1	
Celtis laevigata var. reticulata		Netleaf/Western Hackberry	5★	M	20	20	236	D	S	L,M	S	N	L	N	Y	N	120	300	N	N	Y	6	
Celtis sinensis		Chinese Hackberry	2★	L	30	30	530															1,4,9,10	
Ceratonia siliqua		Carob	4★	L	35	20	236	E	M	L,M	S	N	M	N	Y	Y	200	400	N	Y	N	4	
Cercis canadensis		Eastern Redbud	2★	M	20	15	133															1,2,4,10	
Cercis canadensis var. mexicana		Mexican Redbud	4★	M	20	15	133	D	S	M	----	N	L	N	N	N	120	500	N	Y	Y	1	
Cercis canadensis var. texensis	'Oklahoma'	Texas/Oklahoma Redbud	4★	M	20	20	236	D	S	M	----	N	L	N	N	N	120	300	N	Y	Y	1	
Cercis chinensis	'Avondale'	Avondale Chinese Redbud	2★	S	12	10	59															1,4,10	
Cercis occidentalis		Western Redbud	3★	S	15	15	133	D	S,M	L,M	----	N	L	N	N	N	80	200	N	Y	Y	6	
Chilopsis linearis		Desert Willow	4★	M	25	20	236	D	M	M	L,F,S	N	M	N	Y	N	120	300	Y	N	N	2,3,6	
Chionanthus retusus		Chinese Fringe Tree	3★	S	15	15	133	D	S	M	----	N	----	N	N	N	80	200	N	Y	Y	1	
x Chitalpa tashkentensis		Chitalpa	1★	M	20	20	236															1,4,7,8,9	
Cinnamomum camphora		Camphor Tree	1★	L	40	30	530															1,4,7	
Citrus spp.		Citrus Tree	3★	S	15	15	133	E	M	M,H	S	N	----	N	N	N	80	200	N	N	Y	4,7,10	
Condalia hookeri		Brazilian Bluewood	4★	S	15	15	133	D	M	V	----	Y	----	N	N	N	80	200	N	N	Y		
Cordia boissieri		Texas Olive	5★	M	20	15	133	S	S,M	M	----	N	----	N	N	Y	120	200	N	Y	Y		
Corymbia papuana (=Eucalyptus)		Ghost Gum	3★	X	50	30	530	E	M	L	S	N	H	N	Y	Y	240	1300	N	N	N	4	
Cotinus coggygia		Smoke Tree	3★	S	15	15	133	D	S	L,M	----	N	M	N	N	N	80	100	N	Y	Y	1,4,10	
Cupaniopsis anacardioides		Carrotwood	1★	L	30	25	368															4,5,9	
Cupressus arizonica var. glabra		Arizona Cypress	3★	X	50	15	133	E	M	L,M	----	N	L	N	N	Y	200	600	N	Y	N	1,2,9	
Cupressus sempervirens		Italian Cypress	2★	L	40	5	15															1,4	
Cupressus x leylandii		Leyland Cypress	1★	L	40	15	236															1,2,4,8,9	
Dalbergia sissoo		Indian Rosewood	4★	L	45	35	722	E	M	L	----	N	----	Y	Y	Y	200	1300	Y	N	N	4	
Ebenopsis ebano (=Pithecellobium)		Texas Ebony	4★	M	25	20	236	S	S,M	V	----	Y	----	N	Y	Y	120	300	Y	N	N	8	
Elaeagnus angustifolia		Russian Olive	1★	L	20	20	236															5,7,8	
Elaeocarpus sylvestris (=decipiens)		Japanese Blueberry	2★	L	25	25	368															1,4,7,10	
Eriobotrya deflexa		Bronze Loquat	1★	S	15	15	133															1,4,7,8,9,10	
Eriobotrya japonica		Loquat	1★	S	15	15	133															1,4,7,8,9,10	
Eucalyptus camaldulensis		Red River Gum	4★	X	55	40	942	E	M	M	----	N	H	N	N	Y	240	1600	N	Y	N	5	
Eucalyptus gunnii		Cider Gum	3★	L	45	25	368	E	M	M	L	N	H	Y	Y	Y	200	700	Y	N	N	5	
Eucalyptus microtheca		Coolibah	4★	L	40	25	368	E	M	L,M	L	N	H	Y	Y	Y	200	700	Y	N	N	5	
Eucalyptus nicholii		Willow Leaf Peppermint Gum	3★	L	35	25	368	E	F	M	----	N	H	N	N	Y	200	700	Y	N	N	1,5	
Eucalyptus polyanthemus		Silver Dollar Gum	3★	L	40	30	530	E	F	L,M	L	N	H	N	N	Y	200	1000	N	N	N	1	
Eucalyptus rudis		Desert/Flooded Gum	4★	L	45	30	530	E	M	M	----	N	H	N	Y	Y	240	1000	N	N	N		
Eucalyptus sideroxylon		Red Ironbark	4★	L	40	25	368	E	M	M	----	N	H	N	N	Y	200	1000	N	Y	N		
Eucalyptus spathulata		Narrow-leaf Gimlet	4★	M	25	20	236	E	M	L	----	N	----	N	N	Y	120	350	N	N	Y		
Eysenhardtia orthocarpa		Kidneywood	4★	M	20	20	236	S	M	L	----	N	----	N	Y	Y	120	350	N	N	Y	1	

KEY			Rating	Tree Size	Height (average)	Width (average)	Coverage	Tree Type	Growth Rate	Water Needs	Excessive Litter	Spines or Thorns	Biogenic Volatile Organic Compounds (BVOC's)	Parking Lot Tree	Street Tree	Buffer Tree	Minimum Soil Surface Area	Minimum Soil Volume	Tolerates Compacted Soil	Compatible with Turf Grass	Compatible with Overhead Utilities	Comments																			
Rating: Based on a combination of factors related to climate resiliency such as environmental tolerances (heat, cold), water efficiency, drought tolerance, pathogen resistance, along with some additional factors like diversity, maintenance needs, and invasiveness. Plants rated from 1★ (least appropriate) to 5★ (most appropriate)																							Comments:																		
Tree Size (based on both height and width): <u>S</u> mall (< 20 ft), <u>M</u> edium (20-29 ft), <u>L</u> arge (30- 45ft), <u>E</u> xtra Large (>45ft)																																									
Tree Type: <u>D</u> eciduous, <u>E</u> vergreen, <u>S</u> emi-evergreen																																									
Growth Rate: <u>S</u> low, <u>M</u> oderate, <u>F</u> ast																																									
Water Needs: <u>V</u> ery Low, <u>L</u> ow, <u>M</u> oderate, <u>H</u> igh																																									
Excessive Litter: <u>L</u> eaves, <u>F</u> lowers, <u>S</u> eeds/Fruit																																									
Biogenic Volatile Organic Compounds: <u>L</u> ow, <u>M</u> edium, <u>H</u> igh, or data not available ----																																									
Botanical Name	Cultivar	Common Name	S, M, L, X	(feet)	(feet)	(sq. feet)	D, E, S	S, M, F	V, L, M, H	L, F, S	Yes or No	L, M, H	Yes or No	Street Tree	Yes or No	Buffer Tree	(sq. feet)	(cu. feet)	Yes or No	Compatible with Turf Grass	Compatible with Overhead Utilities	Comments																			
TREES (continued)																																									
Fraxinus angustifolia		Narrow-leaved Ash	2★	L	35	25	368															1,7,8,9																			
Fraxinus angustifolia ssp.oxycarpa	'Raywood'	Raywood Ash	1★	L	30	20	236															1,3,4,7,8																			
Fraxinus anomala		Single-leaf Ash	4★	M	20	20	236	D	M	M	----	N	----	N	N	N	120	500	N	Y	Y	1,6																			
Fraxinus uhdei		Shamel Ash	1★	L	40	30	530															1,4,7,8,9																			
Fraxinus velutina		Velvet/Arizona Ash	2★	L	40	30	530															1,2,3,4,7,8																			
Fraxinus velutina	'Bonita'	Bonita/Montebello Ash	2★	L	30	30	530															1,2,6,7																			
Fraxinus velutina	'Modesto'	Modesto Ash	2★	L	40	25	368															1,4,7,8																			
Fraxinus x velutina	'Fan-West', 'Fan-Tex'	Fan-West/Fan-Tex Ash	2★	L	40	30	530															1,2,3,4,7,8																			
Geijera parviflora		Australian Willow	2★	M	25	20	236															4,9																			
Geoffroea decorticans		Chilean Palo Verde	4★	M	25	25	368	D	S	V	S	Y	----	Y	Y	Y	120	500	N	N	N	4																			
Ginkgo biloba		Maidenhair Tree	3★	L	30	20	236	D	S	M	----	N	M	N	N	N	200	600	N	Y	N	1,4,7																			
Gleditsia triacanthos var. inermis		Thornless Honey Locust	4★	L	35	30	530	D	M	M	S	N	M	N	Y	N	200	1000	N	Y	N	1,2																			
Grevillea robusta		Silk Oak	2★	L	35	20	236															4																			
Havardia mexicana		Mexican Ebony	5★	L	30	25	368	D	M	L	----	Y	----	Y	Y	N	200	600	N	N	N																				
Havardia pallens (=Pithecellobium)		Tenaza	4★	M	20	15	133	D	M	L	----	N	----	N	N	N	120	100	N	N	Y																				
Ilex x altacrerensis	'Wilsonii'	Wilson Holly	2★	S	15	10	59															1,4,7,10																			
Ilex cornuta	'Burfordii'	Burford Holly	2★	S	15	12	85															1,2,4,7,10																			
Ilex x 'Nellie R. Stevens'	'Nellie R. Stevens'	Nellie R. Stevens Holly	2★	S	18	10	59															1,4,7,10																			
Ilex vomitoria		Yaupon Holly	2★	S	15	10	59															1,2,4,7,10																			
Jacaranda mimosifolia		Jacaranda	1★	L	35	25	368															1,4,9																			
Juniperus monosperma		One-seed Juniper	4★	S	15	15	133	E	S	L	----	N	----	N	N	Y	80	200	N	N	Y	1,6																			
Juniperus osteosperma		Utah Juniper	4★	M	20	20	236	E	S	L	----	N	----	N	N	Y	120	300	N	N	Y	1,6																			
Juniperus scopulorum		Rocky Mountain Juniper	4★	L	30	15	133	E	M	M	----	N	----	N	N	Y	200	300	N	N	N	1,2,6																			
Koeleruteria bipinnata		Chinese Flame Tree	2★	L	30	30	530															1,4,7,9																			
Koeleruteria paniculata		Goldenrain Tree	3★	L	30	30	530	D	M	M	----	N	H	N	Y	N	200	1000	N	Y	N	1,7																			
Lagerstroemia indica		Crape Myrtle	2★	S	15	12	85															1,2,4,7,10																			
Laurus nobilis		Bay Laurel	4★	M	20	15	133	E	M	M	----	N	L	N	N	Y	80	200	N	Y	Y	1																			
Leucaena leucocephala		White Lead Tree	1★	M	25	25	368															4,5,9																			
Leucaena retusa		Golden Leadball Tree	5★	M	20	20	236	D	M	L,M	----	N	M	N	Y	Y	120	300	N	N	Y																				
Ligustrum lucidum		Glossy Privet	1★	M	25	20	236															4,7,9,10																			
Lysiloma watsonii		Fern of the Desert	3★	S	15	15	133	S	M	L	S	N	----	N	N	N	80	200	N	N	Y	4																			
Maclura pomifera	'White Shield'	Osage Orange	3★	L	30	30	530	D	M	M	----	Y	----	N	Y	Y	200	1000	N	Y	N	1,7																			
Magnolia grandiflora	'Little Gem'	Southern Little Gem Magnolia	1★	M	25	12	85															4,7,9,10																			
Melia azedarach		Chinaberry	2★	L	30	30	530															1,5,9																			
Morus alba (Female)	'Unryu'	Fruiting/Contorted Mulberry	3★	M	25	20	236	D	M	M	L,F,S	N	----	N	N	N	120	350	N	Y	N	1,5,7																			
Olea europaea	'Swan Hill', 'Wilsonii'	Fruitless Olive	3★	M	25	20	236	E,S,M	M	----	N	L	Y	Y	Y	Y	120	350	N	Y	N	1,4																			
Olneya tesota		Desert Ironwood	4★	M	25	25	368	D	S	V	----	Y	M	Y	Y	Y	120	500	Y	N	N	4																			
Parkinsonia aculeata		Mexican Palo Verde	1★	M	20	20	236															5,8,9																			
Parkinsonia florida		Blue Palo Verde	4★	L	30	30	530	D	M	V,L	S	Y	M	Y	Y	Y	200	1000	Y	N	N	5																			
Parkinsonia microphylla		Foothill Palo Verde	5★	M	20	20	236	D	S,M	V	----	Y	M	N	Y	Y	120	300	N	N	Y																				
Parkinsonia praecox		Palo Brea	5★	L	25	30	530	D	M	V	S	Y	----	N	Y	Y	200	1000	Y	N	N																				
Parkinsonia x 'AZT Thornless'	'AZT' Thornless'	Thornless Hybrid Palo Verde	5★	M	25	25	368	S	M	V,L	----	N	M	Y	Y	Y	120	500	Y	N	N																				
Parkinsonia x 'Desert Museum'	'Desert Museum'	Desert Museum Palo Verde	3★	M	25	25	368	S	M	V,L	----	N	M	Y	Y	Y	120	500	Y	N	N	3																			
Parkinsonia x 'Sonoran Emerald'	'Sonoran Emerald'	Sonoran Emerald Palo Verde	4★	M	25	25	368	S	M	V,L	----	N	M	Y	Y	Y	120	500	Y	N	N	8																			
Parkinsonia x sonora		Sonoran Palo Verde	5★	M	20	20	236	D	S	V	----	Y	M	N	Y	Y	120	300	N	N	Y																				
Paulownia kawakamii (=tomentosa)		Sapphire Dragon Tree	1★	S	15	15	133															4,5,7,9,10																			
Pinus brutia		Turkish/Calabrian Pine	3★	X	50	30	530	E	F	M	L	N	----	N	N	Y	240	1000	N	Y	N	1																			
Pinus brutia var. eldarica		Afghan/Mondell Pine	2★	X	45	30	530															1,3,4,8																			
Pinus canariensis		Canary Island Pine	2★	X	45	25	368															1,4																			
Pinus halepensis		Aleppo Pine	2★	X	45	25	368															1,3,4,8																			
Pinus pinea		Stone Pine	3★	X	60	40	942	E	S,M	M	L	N	M	N	Y	Y	240	1600	N	Y	N	1,8																			
Pinus roxburghii		Chir Pine	3★	L	40	25	368	E	M	M	L	N	M	N	Y	Y	200	700	N	Y	N	1																			
Pinus sabiniana		Foothill/Gray Pine	4★	X	55	30	530	E	M	M	L,S	N	L	N	Y	Y	240	1300	N	Y	N	1																			
Pinus thunbergii		Japanese Black Pine	1★	S	15	15	133															1,4,8,9,10																			
Pistacia atlantica		Mt. Atlas Mastic Tree	3★	L	30	30	530	S	M	M	S	N	----	N	N	N	200	1000	N	N	N	1																			
Pistacia chinensis		Chinese Pistache	4★	L	35	30	530	D	M	M	L,S	N	M	Y	Y	Y	200	1000	Y	Y	N	1,2,3																			
Pistacia lentiscus		Mastic Tree	4★	M	15	20	236	E	S	L	L	N	----	N	Y	Y	120	350	N	N	Y	4																			
Pistacia x 'Red Push'	'Red Push'	Red Push Pistache	4★	L	30	30	530	D	M	M	L,S	N	M	Y	Y	Y	200	1000	Y	Y	N	1,3																			
Pittosporum phylliraeoides		Willow Pittosporum	5★	M	20	15	133	E	M	L	L,F	N	----	Y	Y	Y	120	200	N	N	Y	4																			
Platanus acerifolia		London Plane Tree, Sycamore	2★	X	60	40	942															1,2,4,7,8																			
Platanus mexicana		Mexican Sycamore	3★	X	50	35	722	D	F	M	L	N	H	N	Y	Y	200	1300	N	Y	N	1,7																			
Platanus racemosa		California Sycamore	2★	X	50	40	942															1,4,7,8																			
Platanus wrightii		Arizona Sycamore	3★	X	60	40	942	D	F	M,H	L	N	----	N	N	N	240	1600	N	Y	N	1,4,7,8																			
Platycladus orientalis		Oriental Arborvitae	2★	M	20	10	59															1,2																			
Podocarpus macrophyllus		Yew Pine	3★	M	25	10	59	E	S,M	L,M	----	N	L	N	N	Y	120	200	N	Y	N	1,7,10																			
Populus nigra var. italica		Lombardy Poplar	1★	X	50	15	133															4,7,8,9																			
Populus alba		White Poplar	3★	X	50	40	942	D	F	M	L	N	----	N	N	N	240	1600	N	Y	N	1,2,7,8																			
Populus fremontii		Fremont Cottonwood	2★	X	55	30	530															1,6,7,8																			

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KEY																						
Rating: Based on a combination of factors related to climate resiliency such as environmental tolerances (heat, cold), water efficiency, drought tolerance, pathogen resistance, along with some additional factors like diversity, maintenance needs, and invasiveness. Plants rated from 1★ (least appropriate) to 5★ (most appropriate)			Comments: 1. Organic mulch recommended 2. Many cultivars 3. Overplanted 4. Poor environmental tolerances 5. Invasive species 6. Mojave native 7. Poor drought tolerance 8. Susceptible to Pests 9. Short lifespan 10. Protected microclimate necessary																			
Tree Size (based on both height and width): <u>S</u> mall (< 20 ft), <u>M</u> edium (20-29 ft), <u>L</u> arge (30- 45ft), <u>E</u> xtra Large (>45ft)																						
Tree Type: <u>D</u> eciduous, <u>E</u> vergreen, <u>S</u> emi-evergreen																						
Growth Rate: <u>S</u> low, <u>M</u> oderate, <u>F</u> ast																						
Water Needs: <u>V</u> ery Low, <u>L</u> ow, <u>M</u> oderate, <u>H</u> igh																						
Excessive Litter: <u>L</u> eaves, <u>F</u> lowers, <u>S</u> eed/Fruit																						
Biogenic Volatile Organic Compounds: <u>L</u> ow, <u>M</u> edium, <u>H</u> igh, or data not available ----																						
Botanical Name	Cultivar	Common Name	Rating	Tree Size	Height (average)	Width (average)	Coverage	Tree Type	Growth Rate	Water Needs	Excessive Litter	Spines or Thorns	Biogenic Volatile Organic Compounds (BVOC's)	Parking Lot Tree	Street Tree	Buffer Tree	Minimum Soil Surface Area	Minimum Soil Volume	Tolerates Compacted Soil	Compatible with Turf Grass	Compatible with Overhead Utilities	Comments
			S, M, L, X	(feet)	(feet)	(sq. feet)	D, E, S	S, M, F	V, L, M, H	L, F, S	Yes or No	L, M, H	Yes or No	Yes or No	Yes or No	(sq. feet)	(cu. feet)	Yes or No	Yes or No	Yes or No		
TREES (continued)																						
<i>Vachellia gerrardii</i> (=Acacia)		Red Thorn	4★	S	15	20	236	S	S	V	----	Y	----	N	N	Y	80	300	N	N	Y	
<i>Vachellia rigidula</i> (=Acacia)		Blackbrush Acacia	5★	S	12	12	85	S	S	V	----	Y	----	N	N	Y	80	200	N	N	Y	
<i>Vachellia schaffneri</i> (=Acacia)		Twisted Acacia	5★	M	20	25	368	D	M	L	S	Y	M	N	Y	N	120	500	N	N	Y	
<i>Vitex trifolia</i>	'Purpurea'	Arabian Lilac	2★	S	12	12	85														1,4	
<i>Xylosma congesta</i> (=Croton congestus)		Xylosma	3★	S	15	12	85	E	S,M	M	----	N	M	N	N	Y	80	200	N	Y	Y	1,4
<i>Zelkova serrata</i>		Sawleaf Zelkova	2★	L	40	30	530														1,2,4,7	
<i>Ziziphus jujuba</i>		Jujube	4★	M	25	20	236	D	S	M	S	Y	H	N	N	N	80	300	N	Y	N	1,2
TREES - Under Review																						
<i>Celtis africana</i>		African Hackberry	?	L	35	30	530	D	?	?	?	N	----	?	?	N	200	1000	?	?	N	1
<i>Fraxinus cuspidata</i>		Fragrant Ash	?	M	20	15	133	D	?	?	?	N	----	?	?	N	120	200	N	?	Y	1,6,7
<i>Juglans major</i>		Arizona Walnut	?	L	30	30	530	D	?	?	?	N	----	?	?	N	200	1000	N	?	N	1,7
<i>Juniperus deppeana</i>	'McFetter'	Alligator Juniper	?	L	40	20	236	E	?	?	?	N	L	?	?	Y	200	300	N	?	Y	1
<i>Mariosousa willardiana</i>		Palo Blanco	?	M	20	15	133	S	?	?	?	N	----	?	?	Y	120	200	?	?	Y	4
<i>Pinus cembroides</i>		Mexican Pinyon	?	M	25	15	133	E	?	?	?	N	M	?	?	Y	120	200	N	?	Y	1
<i>Pinus engelmannii</i>		Apache Pine	?	X	60	35	722	E	?	?	?	N	----	?	?	Y	240	1300	N	?	N	1
<i>Pinus edulis</i>		Two Needle Pinyon	?	M	20	15	133	E	?	?	?	N	M	?	?	Y	120	300	N	?	N	1
<i>Pinus monophylla</i>		Single Needle Pinyon	?	M	20	20	236	E	?	?	?	N	H	?	?	Y	120	300	N	?	Y	1,6
<i>Pinus quadrifolia</i>		Parry Pinyon	?	M	25	20	236	E	?	?	?	N	----	?	?	Y	120	300	N	?	N	1
<i>Psoralethamnus spinosus</i>		Desert Smoke Tree	?	S	15	15	133	D	?	?	?	Y	M	?	?	Y	80	200	?	N	Y	6
<i>Quercus arizonica</i>		Arizona White Oak	?	X	45	40	942	S	?	?	?	N	----	?	?	Y	240	1300	N	?	N	1
<i>Quercus chrysolepis</i>		Canyon Live Oak	?	L	30	25	368	E	?	?	?	N	H	?	?	Y	200	500	N	?	N	1,6
<i>Quercus emoryi</i>		Emory Oak	?	L	30	25	368	S	?	?	?	N	----	?	?	Y	200	500	N	?	Y	1
<i>Quercus gambelii</i> x <i>macrocarpa</i>		Bur-gambel Oak	?	L	30	30	530	D	?	?	?	N	----	?	?	N	200	1000	N	?	N	1
<i>Quercus gravesii</i>		Chisos Red/Grave's Oak	?	L	35	30	530	D	?	?	?	N	----	?	?	N	200	1000	N	?	N	1
<i>Quercus grisea</i>		Gray Oak	?	L	30	25	368	S	?	?	?	N	----	?	?	Y	200	500	N	?	N	1
<i>Quercus hypoleucoides</i>		Silverleaf Oak	?	L	35	30	530	E	?	?	?	N	----	?	?	Y	200	1000	N	?	N	1
<i>Quercus oblongifolia</i>		Mexican Blue Oak	?	M	25	25	368	E	?	?	?	N	----	?	?	Y	120	500	N	?	N	1
<i>Quercus sartorii</i>		Mexican Red/Sator's Oak	?	M	25	25	368	D	?	?	?	N	----	?	?	N	120	500	N	?	N	1
<i>Styphnolobium affine</i> (=Sophora affinis)		Eve's Necklace	?	M	25	15	133	S	?	?	?	N	----	?	?	N	120	350	N	?	N	1
PALMS AND CYCADS																						
<i>Bismarckia nobilis</i>		Bismarck Palm	1★	M	30	20	236														1,7	
<i>Brahea armata</i>		Mexican Blue Palm	4★	M	25	15	133	E	S	M	----	Y	M	N	Y	N	120	200	N	N	N	1,7
<i>Brahea decumbens</i>		Mexican Dwarf Blue Palm	4★	M	15	25	368	E	S,M	M	----	Y	----	N	N	N	120	500	N	?	Y	
<i>Butia capitata</i>		Pindo Palm	2★	M	20	15	133														1,4,7	
<i>Chamaerops humilis</i>		Mediterranean Fan Palm	3★	S	15	15	133	E	S	M	S	Y	M	N	N	N	80	200	Y	Y	Y	7
<i>Cycas revoluta</i>		Japanese Sago Palm	2★	-	5	6	28														1,7,10	
<i>Livistona chinensis</i>		Chinese Fan Palm	3★	S	15	10	59	E	S	M	----	Y	----	N	N	N	80	100	N	N	Y	
<i>Livistona decipiens</i>		Ribbon Fan Palm	3★	L	30	10	59	E	M	L,M	----	Y	----	N	N	N	200	100	N	N	Y	
<i>Livistona nitida</i>		Carnarvon Fan Palm	3★	L	40	15	133	E	M,F	M	----	Y	----	Y	Y	N	200	200	N	Y	N	
<i>Livistona saribus</i>		Taraw Fan Palm	3★	L	30	15	133	E	S	M	S	Y	----	N	N	N	200	200	N	N	N	
<i>Nannorrhops ritchleana</i>		Mazari Palm	5★	S	10	12	85	E	M	L	----	N	----	Y	Y	N	80	150	N	N	Y	
<i>Phoenix canariensis</i>		Canary Island Date Palm	3★	L	40	30	530	E	S	M	S	Y	M	N	Y	N	200	1000	Y	Y	N	1,5,7,8
<i>Phoenix dactylifera</i>		Date Palm	3★	X	60	20	236	E	S	M	S	Y	M	N	Y	N	240	300	Y	Y	N	1,5,7
<i>Phoenix reclinata</i>		Senegal Date Palm	2★	M	20	15	133														5,7	
<i>Phoenix roebelenii</i>		Pygmy Date Palm	1★	-	6	7	38														1,4,7,10	
<i>Phoenix rupicola</i>		Cliff Date	3★	M	20	15	133	E	S	M	F,S	Y	----	N	N	N	120	200	N	Y	Y	
<i>Phoenix sylvestris</i>		Wild Date	3★	M	25	10	59	E	S	M	F,S	Y	----	N	N	N	120	100	N	Y	Y	
<i>Phoenix theophrasti</i>		Greek/Cretan Date Palm	3★	L	40	15	133	E	M	M	F	Y	----	Y	Y	N	200	200	N	Y	N	
<i>Sabal causerium</i>		Puerto Rican Hat Palm	3★	L	35	15	133	E	M	M	F,S	N	----	Y	Y	N	200	200	N	Y	N	
<i>Sabal domingensis</i>		Hispaniolan Palmetto	3★	M	20	15	133	E	M	M	F,S	N	----	Y	Y	N	120	200	N	Y	N	
<i>Sabal mexicana</i>		Mexican Sabal Palm	4★	L	30	15	133	E	M	M	F	Y	----	Y	Y	N	200	200	N	Y	N	
<i>Sabal palmetto</i>		Palmetto	3★	L	45	15	133	E	M	M	F,S	N	----	Y	Y	N	200	200	N	Y	N	
<i>Sabal</i> x 'Riverside'	'Riverside'	Riverside Sabal Palm	4★	L	35	20	236	E	M	M,H	F,S	Y	----	Y	Y	N	200	300	N	Y	N	
<i>Syagrus romanzoffiana</i>		Queen Palm	1★	M	25	10	59														4,7	
<i>Trachycarpus fortunei</i>		Windmill Palm	3★	M	20	10	59	E	S	M	F,S	N	----	N	N	N	120	100	N	Y	Y	1,7
<i>Washingtonia filifera</i>		California Fan Palm	3★	X	50	15	133	E	S,M	L,M	F,S	Y	M	N	Y	N	240	200	Y	Y	N	1,7
<i>Washingtonia robusta</i>		Mexican Fan Palm	3★	X	60	15	133	E	M	M	F,S	Y	M	N	Y	N	240	200	Y	Y	N	1,5,7

KEY		"Bulletproof"	Height (average)	Width (average)	Coverage	Type	Growth Rate	Water Use	Drought Tolerance	Spines or Thorns	Physical Barrier	Hedge or Screen	Exposure	COMMENTS	
"Bulletproof": Extremely drought tolerant, cold hardy, and pest and disease resistant once established. Height, Width, Coverage at mature growth. Type: Deciduous, Evergreen, Semi-evergreen Growth Rate: Slow, Medium, Fast Water Use: Very Low, Low, Medium, High Drought Tolerance: Low, Medium, High Exposure: Full sun, Partial shade, Shade															Comments: 1. Organic mulch recommended. 2. Many cultivars. 3. Some species may form dense thickets. 4. Not cold hardy below 28°F. 5. Invasive species. 6. Mojave native. 7. Toxic (parts specified). 8. May be trained as a small tree. 9. Needs a protected site (north facing site or afternoon shade).
BOTANICAL NAME		COMMON NAME		(feet)	(feet)	(sq. feet)	D, E, S	S, M, F	VL, L, M, H	L, M, H	Yes or No	Yes or No	Yes or No	F, P, S	
SHRUBS															
Abelia x grandiflora	Glossy Abelia		5	5	20	E, S	F	M	M	N	Y	Y	F, P		
Phoenix sylvestris	Velvet-leaf Mallow, Superstition Mallow		4	4	13	E, S	M	L, M	M	N	N	N	F, P		
Acacia craspedocarpa	Leatherleaf Acacia, Waxleaf A.		10	15	177	E	S	L	M	N	N	Y	F		
Acacia cultriformis	Knifeleaf Acacia, Knife Acacia		10	10	79	E	M	L	M	N	N	Y	F, P	4	
Acacia redolens	Creeping Acacia, Prostrate Acacia	●	3	10	79	E	F	VL	H	N	N	N	F		
Acca sellowiana (=Feijoa)	Pineapple Guava		15	15	177	E	S	L	H	N	Y	Y	F, P	1, 8	
Alyogyne huegelii	Blue Hibiscus		6	6	28	E	M	L	M	N	N	N	F		
Ambrosia dumosa	White Bursage, Burrobush	●	2	4	13	E	F	L	H	N	N	N	F	6	
Ambrosia eriocentra	Wooly Bursage	●	3	3	7	E	M	L	H	N	N	N	F, P	6	
Anisacanthus quadrifidus-wrightii 'Mexican Flame'	Mexican Flame		4	4	13	D	M	L	H	N	N	Y	F, P		
Anisodontea x hypomandarum	Pink Desert Hibiscus, African Mallow		4	4	13	E	F	M	L	N	Y	Y	F, P		
Artemisia filifolia	Sand Sage	●	4	3	7	E	M	L	H	N	N	Y	F	6	
Artemisia tridentata	Big Sage Brush	●	4	3	7	E	M	L	H	N	N	Y	F	6	
Asclepias subulata	Desert Milkweed	●	5	5	20	E	S	L	H	N	Y	Y	F	6	
Atriplex canescens	Four-Wing Saltbush	●	5	8	50	S	M	M	H	N	N	N	P	6	
Atriplex confertifolia	Shadscale	●	2	3	7	D	F	VL	H	Y	N	N	F	6	
Atriplex hymenelytra	Saltbush, Desert Holly	●	2	2	3	E	S	VL	H	N	N	N	F	6	
Atriplex lentiformis	Quailbush, Big Saltbush	●	6	8	50	D	M	L	H	Y	Y	Y	F	6	
A. l. breweri	Brewer's Saltbush, Quail Bush	●	7	7	38	E	M	L	H	Y	Y	Y	F	6	
Atriplex polycarpa	Desert Saltbush	●	6	6	28	D	S	M	H	N	N	N	F	6	
Baccharis sarothroides	Desert Broom, Coyote Bush		6	7	38	E	M	L	H	N	Y	N	F	3, 5, 6	
Baccharis x 'Centennial' (female hybrid)	Centennial Broom		3	5	20	E	F	L	H	N	N	N	F		
Baccharis x 'Starn' (male hybrid)	Thompson Broom		3	5	20	E	M	L	H	N	N	N	F		
Bebbia juncea	Sweet Bush	●	3	3	7	S	M	L	H	N	N	N	F	6	
Berberis fremontii	Fremont's Barberry	●	6	4	13	E	S	L	H	Y	Y	Y	F, P	6	
Berberis thunbergii	Japanese Barberry		4	4	13	D	M	M	L	Y	Y	Y	F, P	2	
Buddleja davidii	Butterfly Bush		8	6	28	D, S	F	L, M	L	N	Y	Y	F, P		
Buddleja marrubifolia	Wooly Butterfly Bush	●	5	5	20	E	F	L	H	N	Y	Y	F, P		
Buddleja utahensis	Utah Butterfly Bush	●	2	2	3	E	M	L	H	N	N	N	F, P	6	
Buxus microphylla 'Japonica'	Japanese Boxwood		4	4	13	E	S	L	M	N	N	Y	F, P, S	1	
Caesalpinia gilliesii	Yellow Bird of Paradise		8	6	28	D, E	F	L	H	N	N	N	F	2, 7 (seed pods)	
Caesalpinia mexicana	Mexican Bird of Paradise	●	12	6	28	D, E	F	L	H	N	N	N	F	2, 7 (seed pods)	
Caesalpinia pulcherrima	Red Bird of Paradise		6	6	28	D, E	F	L	H	Y	N	N	F	2, 7 (seed pods)	
Calliandra californica	Baja Fairy Duster	●	5	6	28	E	S, M	L	H	N	N	N	F, P		
Calliandra eriophylla	Pink Fairy Duster	●	3	3	7	E	S, M	L	H	N	N	N	F, P		
Callistemon citrinus	Bottlebrush, Lemon Bottlebrush		8	8	50	E	M	M	M	N	Y	N	F	1, 8	
C. c. 'Nana'	Dwarf Bottlebrush		2	3	7	E	S	M	M	N	N	N	F	1	
Caryopteris x clandonensis 'Dark Knight'	Blue Mist Spirea		3	4	13	D	M	M	L	N	Y	N	F, P		
Chamaebatiaria millefolium	Fern Bush, Desert Sweet		5	5	20	S	M	L	M	N	Y	N	F, P		
Chrysactinia mexicana	Damianita	●	2	2	3	E	S, M	L	M	N	N	N	F		
Chrysothamnus viscidiflorus	Yellow Rabbit Brush, Green Rabbit Brush	●	3	3	7	D	M	L	H	N	N	N	F		
Cistus hybridus	White Rockrose		3	5	20	E	F	L	H	N	N	N	F		
Cistus purpureus	Purple Rock Rose, Orchid Rockrose		4	4	13	E	F	L	H	N	N	N	F		
Coleogyne ramosissima	Blackbrush	●	5	5	20	S	S	L	H	N	Y	Y	F		
Cordia parvifolia	Little Leaf Cordia	●	6	8	50	E	M	M	H	N	Y	Y	F		
Cotoneaster congestus	Pyrenees Cotoneaster		2	3	7	E	M	L, M	M	N	N	Y	F, P		
Cotoneaster glaucophyllus	Gray-Leaf Cotoneaster		5	6	28	E	M	M	M	N	Y	Y	F, P		
Cotoneaster lacteus	Red Clusterberry		6	6	28	E	M	L, M	M	N	Y	Y	F, P		
Cotoneaster microphyllus	Rockspray		3	6	28	E	M	L, M	M	N	N	N	F, P		
Dalea bicolor 'argyraea'	Silver Dalea	●	3	3	7	E	F	L	H	N	N	N	F		
Dalea frutescens	Black Dalea	●	4	5	20	S	M	L	H	N	Y	Y	F		
Dalea pulchra	Pink Indigo Bush	●	4	5	20	E	M, F	L	H	N	Y	Y	F		
Dodonaea viscosa	Purple Hopseed Bush		10	6	28	E	M	L, M	M	N	Y	Y	F		
Duranta erecta 'Sweet Memory'	Golden Dewdrop, Sky Flower		15	10	79	S	S	M	L, M	N	N	Y	F, P	7 (berries), 8	
Elaeagnus pungens	Silverberry		8	8	50	E	F	L, M	M	Y	Y	Y	F, P		
Elaeagnus x ebbingei	Ebbing's Silverberry		8	8	50	E	F	L, M	M	N	Y	Y	F, P		
Encelia farinosa	Brittlebush	●	3	4	13	D	M	VL	H	N	N	N	F	6	
Encelia virginensis	Virgin River Brittlebush	●	2	2	3	S	M	VL	H	N	N	N	F	6	
Ephedra nevadensis	Nevada Jointfir, Nevada Mormon Tea	●	3	3	7	E	M	VL	H	N	N	N	F	6	
Ephedra viridis	Mormon Tea	●	3	3	7	E	S	L	H	N	N	N	F	6	
Eremophila decipiens	Slender Fuchsia		3	3	7	E	M	L	H	N	Y	Y	F, P		
Eremophila laanii 'Pink Beauty'	Pink Beauty Emu Bush		6	6	28	E	F	M	H	N	Y	Y	F		
Eremophila glabra 'Murchinson River'	Fire and Ice Emu Bush		3	6	28	E	M	L	H	N	Y	Y	F		
Eremophila maculata	Spotted Emu Bush		6	6	28	E	S	L	H	N	Y	Y	F, P		
E. m. 'Valentine'	Valentine Emu Bush		4	5	20	E	M	L	H	N	Y	Y	F		

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BOTANICAL NAME	COMMON NAME	"Bulletproof"	Height (average) (feet)	Width (average) (feet)	Coverage (sq. feet)	Type D, E, S	Growth Rate S, M, F	Water Use VL, L, M, H	Drought Tolerance L, M, H	Spines or Thorns Yes or No	Physical Barrier Yes or No	Hedge or Screen Yes or No	Exposure F, P, S			
SHRUBS (continued)																
<i>E. m. 'Winter Gold'</i>	Winter Gold Emu Bush		4	6	28	E	M	L	H	N	Y	Y	F, P			
<i>Eremophila racemosa</i>	Easter Egg Eremophila		5	5	20	E	M	L	H	N	Y	Y	F			
<i>Eremophila</i> x 'Summertime Blue' (<i>polyclada</i> x <i>divaricata</i>)	Summertime Blue Emu Bush		6	10	79	E	F	L	H	N	Y	Y	F			
<i>Eremophila</i> sp.	Eremophila, Emu Bush	●	4	4	13	E	M	L	H	N	Y	Y	F, P			
<i>Ericameria cuneata</i>	Cliff Goldenbush	●	2	3	7	D	S	L	H	N	N	N	F	6		
<i>Ericameria laricifolia</i>	Turpentine Bush	●	2	3	7	D	S	VL	H	N	N	N	F			
<i>Eriodictyon angustifolium</i>	Yerba Santa		3	3	7	E	M	L	H	N	N	N	F, P	6		
<i>Eriogonum corymbosum</i> var. <i>nilesii</i>	Las Vegas Valley Buckwheat	●	3	3	7	D	M	VL	H	N	N	N	F	6		
<i>Eriogonum fasciculatum</i>	Wild Buckwheat, California Buckwheat	●	2	3	7	E	F	L	H	N	N	N	F	6		
<i>Eriogonum</i> sp.	Buckwheat	●	3	3	7	D	M	L	H	N	N	N	F			
<i>Euonymus japonica</i>	Evergreen Euonymus		6	6	28	E	S	M	M	N	Y	Y	P, S	1		
<i>E. j. 'Aureo-Variiegata'</i>	Gold Spot Euonymus		5	6	28	E	S, M	M	M	N	Y	Y	P, S	1		
<i>E. j. 'Microphylla'</i>	Box-leaf Euonymus		2	2	3	E	S	M	M	N	N	Y	P, S	1		
<i>E. j. 'Silver King'</i>	Silver King Euonymus		5	6	28	E	S	M	M	N	N	Y	P, S	1		
<i>Fallugia paradoxa</i>	Apache Plume	●	6	4	13	S	F	L	H	N	Y	Y	F, P	6		
<i>Forestiera pubescens</i> (= <i>neomexicana</i>)	Desert Olive, New Mexico Privet	●	6	6	28	D	M	L	H	N	Y	Y	F, P	6		
<i>Fraxinus greggii</i>	Little Leaf Ash	●	15	12	113	E	S	M	M	N	Y	Y	F, P	8		
<i>Genista tinctoria</i>	Dyer's Greenwood		6	6	28	D	S	L	H	N	N	N	F			
<i>Gutierrezia sarothrae</i>	Snakeweed	●	2	2	3	S	M	VL	H	N	N	N	F, P	6		
<i>Juniperus chinensis</i> 'Blue Point'	Blue Point Juniper		10	4	13	E	M	M	M	N	Y	Y	F, P			
<i>J. c. 'Spartan'</i>	Spartan Chinese Juniper		15	6	28	E	M	L	H	N	Y	Y	F, P			
<i>J. c. 'Sea Green'</i>	Sea Green Juniper		5	6	28	E	M	M	M	N	Y	Y	F, P			
<i>J. c. 'Torulosa'</i>	Hollywood Twisted Juniper		15	10	79	E	M	L	H	N	Y	Y	F, P	8		
<i>Juniperus sabina</i> 'Tamariscifolia'	Tam Juniper		3	10	79	E	M	M	L	N	N	N	P	1		
<i>Juniperus scopulorum</i> 'Gray Gleam'	Gray Gleam Juniper		15	6	28	E	S	M	M	N	Y	Y	F, P	8		
<i>Juniperus</i> sp.	Juniper		20	10	79	E	M	L, M	M	N	var.	var.	F, P	2		
<i>Justicia californica</i>	California Justicia, Chuparosa	●	3	4	13	D	M	L	H	N	N	N	F			
<i>Justicia candidans</i>	Red Justicia	●	5	3	7	D	M	H	L	N	N	N	P, S			
<i>Justicia spicigera</i>	Mexican Honeysuckle	●	3	4	13	E	M	M	M	N	N	N	F, P	2		
<i>Keckelia antirrhinoides</i>	Yellow Snapdragon Bush	●	4	4	13	S	M	L	H	N	N	Y	F, P	6		
<i>Krascheninnikovia lanata</i>	Winterfat	●	2	3	7	E	F	VL	H	N	N	N	F	6		
<i>Lantana camara</i>	Bush Lantana		3	6	28	E	F	L	H	N	N	N	F	2, 7 (berries, leaves)		
<i>Larrea tridentata</i>	Creosote Bush	●	8	6	28	E	M	VL	H	N	N	Y	F	6		
<i>Leucophyllum candidum</i> 'Silver Cloud'	Silver Cloud Texas Ranger	●	5	5	20	E	S	L	H	N	Y	Y	F			
<i>L. c. 'Thunder Cloud'</i>	Thunder Cloud Texas Ranger	●	3	4	13	E	S	L	H	N	Y	Y	F			
<i>Leucophyllum frutescens</i>	Texas Ranger, Texas Sage, Cenizo	●	6	6	28	E	S	L	H	N	Y	Y	F			
<i>L. f. 'Compacta'</i>	Compact Texas Ranger	●	5	5	20	E	S	L	H	N	Y	Y	F			
<i>L. f. 'Green Cloud'</i>	Green Cloud Texas Ranger	●	6	6	28	E	S	L	H	N	Y	Y	F			
<i>L. f. 'White Cloud'</i>	White Cloud Texas Ranger	●	6	6	28	E	S	L	H	N	Y	Y	F			
<i>Leucophyllum langmaniae</i> 'Lynn's Legacy'	Lynn's Legacy Texas Ranger	●	5	5	20	E	S	L	H	N	Y	Y	F			
<i>L. l. 'Rio Bravo'</i>	Rio Bravo Texas Ranger	●	6	6	28	E	S	L	H	N	Y	Y	F			
<i>Leucophyllum laevigatum</i>	Chihuahuan Sage	●	6	6	28	E	S	L	H	N	Y	Y	F			
<i>Leucophyllum pruinusum</i> 'Sierra Bouquet'	Sierra Bouquet Texas Ranger	●	6	6	28	E	S	L	H	N	Y	Y	F			
<i>Leucophyllum revolutum</i> 'Houdini'	Houdini Texas Ranger		4	4	13	E	S	L	H	N	Y	Y	F			
<i>Leucophyllum zygophyllum</i> 'Cimarron'	Blue Texas Ranger, Cimarron Ranger	●	3	3	7	E	S	L	H	N	Y	Y	F			
<i>Leucophyllum</i> x 'Rain Cloud'	Rain Cloud Texas Ranger	●	5	4	13	E	S	L	H	N	Y	Y	F			
<i>Lycium andersonii</i>	Wolf Berry	●	6	4	13	D	M	VL	H	Y	N	Y	F	6		
<i>Lycium cooperi</i>	Cooper's Wolfberry	●	5	6	28	E	F	L	H	Y	Y	Y	F, P	6		
<i>Lycium pallidum</i> var. <i>oligospermum</i>	Pale Wolfberry	●	5	6	28	E	F	L	H	Y	Y	Y	F, P	6		
<i>Malpighia glabra</i> 'Mariquita'	Barbados Cherry		3	3	7	S	M	L, M	L	N	N	N	P	1, 4		
<i>Myrtus communis</i>	Classic Myrtle		6	6	28	E	S	L	H	N	Y	Y	F, P	1		
<i>M. c. boetica</i>	Twisted Myrtle		10	10	79	E	S	L	H	N	N	Y	F, P	1, 8		
<i>M. c. 'Compacta'</i>	Compact Myrtle		4	4	13	E	S	L	H	N	N	Y	F, P	1		
<i>Nerium oleander</i>	Oleander		15	15	177	E	M	L	H	N	Y	Y	F	** 2, 7 (all parts), 8		
<i>N. o. 'Petite'</i>	Dwarf Oleander		6	5	20	E	M	L	H	N	Y	Y	F	** 2, 7 (all parts)		
<i>Phlomis fruticosa</i>	Shrubby Jerusalem Sage		3	3	7	E	M	L, M	M	N	N	N	F, P	1		
<i>Phlomis lanata</i>	Jerusalem Sage		3	4	13	E	M	L, M	M	N	N	N	F, P	1		
<i>Plumbago auriculata</i>	Cape Plumbago		6	8	50	E, S	M, F	L, M	M	N	N	N	F, P			
<i>Poliomnitha maderensis</i>	Lavender Spice, Mexican Oregano		3	3	7	E, S	M	L, M	M	N	N	N	F, P			
<i>Prunus fasciculata</i>	Desert Almond	●	4	4	13	D	M	L	H	N	N	N	F	6		
<i>Psoralethamnus fremontii</i>	Indigo Bush	●	3	4	13	D	S	VL	H	N	N	N	F	6		
<i>Psoralethamnus polydenius</i>	Nevada Smokebush	●	5	4	13	D	S	VL	H	N	N	N	F	6		
<i>Punica granatum</i> 'Nana'	Dwarf Pomegranate		3	3	7	D	M	M	M	Y	N	N	F, P			
<i>Purshia mexicana</i>	Mexican Cliffrose	●	7	4	13	E	S	L	M	N	N	N	F	6		
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BOTANICAL NAME	COMMON NAME	"Bulletproof"	Height (average) (feet)	Width (average) (feet)	Coverage (sq. feet)	Type D, E, S	Growth Rate S, M, F	Water Use VL, L, M, H	Drought Tolerance L, M, H	Spines or Thorns Yes or No	Physical Barrier Yes or No	Hedge or Screen Yes or No	Exposure F, P, S			
SHRUBS (continued)																
<i>Purshia stansburiana</i> (=Cowania)	Cliff Rose	●	6	6	28	E	S	L	H	N	N	Y	F,P	6		
<i>Pyracantha</i> sp.	Pyracantha, Firethorn		8	8	50	E	F	M	M	Y	Y	Y	F, P	1		
<i>Rhus microphylla</i>	Littleleaf Sumac	●	8	12	113	D	M	L	H	Y	Y	Y	F, P			
<i>Rhus ovata</i>	Sugar Bush	●	12	12	113	E	S,M	L, M	H	N	Y	Y	F, P			
<i>Rhus trilobata</i>	Squaw Bush / Skunk Bush	●	5	8	50	D	M	L	H	N	Y	Y	F, P			
<i>Rhus virens</i>	Evergreen Sumac	●	10	15	177	E	M	L	H	N	Y	Y	F, P	8		
<i>Romneya coulteri</i>	Matilija Poppy, Fried Egg Poppy		6	6	28	S	S	L, M	M	N	N	N	F, P			
<i>Rosa</i> sp.	Rose		4	3	7	D, E	F	M	M	Y	Y	Y	F, P	1, 2		
<i>Rosa woodsii</i>	Woods' Rose		4	4	13	D	M	M	M	Y	Y	N	F, P	3, 6		
<i>Rosmarinus officinalis</i>	Rosemary		4	6	28	E	M,F	L, M	M	N	Y	Y	F, P			
<i>Ruellia peninsularis</i>	Desert Ruellia	●	4	5	20	S	M	L	H	N	N	Y	F			
<i>Russelia equisetiformis</i>	Coral Fountain		4	6	28	E, S	M	M	H	N	N	N	F, P	4		
<i>Salazaria mexicana</i>	Bladdersage	●	3	3	7	D	M	VL	H	N	N	N	F	6		
<i>Salvia chamaedryoides</i>	Mexican Blue Sage	●	2	2	3	E, S	M	M	M	N	N	N	F, P			
<i>Salvia clevelandii</i>	Chaparral Sage	●	5	6	28	E	M	L	H	N	Y	N	F, P			
<i>Salvia coccinea</i>	Scarlet Sage		3	4	13	S	M	L, M	M	N	N	N	F, P			
<i>Salvia dorrii</i>	Purple Sage, Desert Sage	●	2	3	7	E,S	M	L	H	N	N	N	F, P	6		
<i>Salvia greggii</i>	Autumn Sage		2	2	3	S	F	L, M	M	N	N	N	F, P	2		
<i>Salvia leucantha</i>	Mexican Bush Sage		4	4	13	S	M,F	M	M	N	N	N	F, P	1		
<i>Salvia microphylla</i> 'Sierra Madre'	Sierra Madre Sage		3	3	7	E	M	M	M	N	N	N	F, P			
<i>Salvia mohavensis</i>	Mojave Sage	●	3	3	7	E	M	VL	H	N	N	N	F,P,S	6		
<i>Salvia</i> sp.	Sage		4	4	13	D,E	M,F	M	M	N	N	N	F, P			
<i>Sambucus mexicana</i>	Mexican Elderberry	●	15	15	177	D, S	M,F	L, M	H	N	Y	Y	F, P	6, 8		
<i>Santolina chamaecyparissus</i>	Lavender Cotton, Gray Santolina		2	3	7	E	M	L, M	M	N	N	N	F, P			
<i>Santolina rosmarinifolia</i> (=S. virens)	Green Lavender Cotton, Green Santolina		2	3	7	E	M	L, M	M	N	N	N	F, P			
<i>Senegalia berlandieri</i> (=Acacia)	Berlandier Acacia, Guajillo		12	12	113	D	M	L, M	H	N	N	N	F, P			
<i>Senna armata</i> (=Cassia)	Spiny Senna	●	3	4	13	D	M	VL	H	Y	N	N	F	6		
<i>Senna artemisioides</i> (=Cassia)	Feathery Senna, Feathery Cassia	●	6	6	28	E	M	VL, L	H	N	N	Y	F, P			
<i>Senna lindheimeriana</i> (=Cassia)	Velvet-leaf Senna	●	3	3	7	E	M	L	H	N	N	N	F, P			
<i>Senna nemophila</i> (=Cassia)	Desert Senna, Desert Cassia		6	6	28	E	M	L	H	N	N	N	F, P	4		
<i>Senna phyllodinea</i> (=Cassia)	Silvery Senna, Silver Leaf Cassia		6	6	28	E	M	L	H	N	N	N	F, P	4		
<i>Senna wislizenii</i> (=Cassia)	Shrubby Senna, Shrubby Cassia		8	6	28	D	M	L	H	N	N	N	F, P			
<i>Simmondsia chinensis</i>	Jojoba	●	6	6	28	E	S,M	VL, L	H	N	Y	Y	F, P			
<i>S. c.</i> 'Vista'	Compact Jojoba	●	4	4	13	E	S,M	VL, L	H	N	Y	N	F, P			
<i>Sophora arizonica</i>	Arizona Mescal Bean	●	10	8	50	E	S	L, M	M	N	N	N	F, P	8		
<i>Tecoma stans</i>	Yellow Trumpet Flower, Yellow Bells		8	8	50	S	F	L, M	M	N	N	N	F, P	2, 8		
<i>Tecoma</i> x 'Orange Jubilee'	'Orange Jubilee' Tecoma, Orange Bells		8	8	50	D, S	F	L, M	M	N	N	N	F, P			
<i>Tecoma</i> x 'Sunrise' TM	'Sunrise' Tecoma		8	8	50	D, S	F	L, M	M	N	N	N	F, P			
<i>Teucrium chamaedrys</i>	Germander		2	2	3	E	M	L, M	M	N	N	N	F, P			
<i>Thamnosma montana</i>	Turpentine Broom	●	2	2	3	D	S	VL	H	N	N	N	F	6		
<i>Vauquelinia californica</i>	Arizona Rosewood	●	15	10	79	E	M	L	H	N	Y	Y	F, P	8		
<i>Vauquelinia corymbosa</i> var. <i>heterodon</i>	Narrowleaf Rosewood	●	15	15	177	E	M	L, M	H	N	Y	Y	F, P	8		
<i>Wedelia texana</i> 'Devil's River' (= <i>Zexmenia hispida</i>)	Devil's River, Orange Daisy		3	3	7	S, D	M	L, M	H	N	N	N	F, P			
<i>Xylosma congesta</i> 'Compacta'	Dwarf Xylosma		5	6	28	E	M	M	M	N	N	Y	F,P,S			
<i>Ziziphus obtusifolia</i>	Greythorn	●	6	8	50	D	S,M	L	H	Y	Y	Y	F,P	6		
GROUNDCOVERS																
<i>Abronia villosa</i>	Desert Sand Verbena	●	1	2	3	D	M	L	H	N	N	N	F	6		
<i>Acacia redolens</i> 'Desert Carpet'	Desert Carpet Creeping Acacia	●	2	12	113	E	S,M	VL	H	N	N	N	F			
<i>Acalypha monostachys</i>	Raspberry Fuzzies		1	1	1	S	M	M	M	N	N	N	F			
<i>Aptenia cordifolia</i>	Hearts and Flowers, Red Apple Ice Plant		1	3	7	E	M	L, M	L, M	N	N	N	F, P			
<i>Asteriscus maritimus</i>	Gold Coin Daisy		1	3	7	E	M	L, M	M	N	N	N	F			
<i>Baccharis pilularis</i> 'Pigeon Point'	Dwarf Coyote Brush		1	8	50	E	F	L	L	N	N	N	F			
<i>Berberis repens</i> (=Mahonia)	Creeping Oregon Grape		2	4	13	E	S	M	M	N	N	N	P,S	1		
<i>Calylophus hartwegii</i>	Sierra Sundrop		1	2	3	D	F	L	H	N	N	N	F			
<i>Cephalophyllum speciosum</i> 'Red Spike'	Red Spike Iceplant		1	2	3	E	M	L	M	N	N	N	F, P	4		
<i>Cerastium tomentosum</i>	Snow-in-Summer		1	1	1	D	F	L	L	N	N	N	F,P			
<i>Conoclinium greggii</i> 'Boothill' (=Eupatorium)	Boothill Eupatorium		2	2	3	E	F	M	M	N	N	N	P			
<i>Convolvulus cneorum</i>	Bush Morning Glory		2	4	13	E	F	L	M	N	N	N	F			
<i>Convolvulus mauritanicus</i>	Ground Morning Glory		1	3	7	P	F	L	M	N	N	N	F			
<i>Cotoneaster horizontalis</i>	Rock Cotoneaster		2	6	28	E	M	M	L	N	N	N	P			
<i>Dalea capitata</i> 'Sierra Gold'	Sierra Gold Dalea	●	1	3	7	D	F	L	H	N	N	N	F	1		
<i>Dalea greggii</i>	Prostrate Indigo Bush	●	1	8	50	E	F	L	H	N	N	N	F			
<i>Dichondra argentea</i> 'Silver Falls'	Silver Dichondra, Kidneyweed		1	3	7	S	F	L	M	N	N	N	F, P			
<i>Dichondra micrantha</i>	Green Dichondra		1	3	7	E	M	M	L	N	N	N	P, S	1		
<i>Drosanthemum cooperi</i>	Purple Iceplant		1	4	13	E	M,F	L	M	N	N	N	F, P			

KEY																	COMMENTS	
"Bulletproof": Extremely drought tolerant, cold hardy, and pest and disease resistant once established. Height, Width, Coverage at mature growth. Type: Deciduous, Evergreen, Semi-evergreen Growth Rate: Slow, Medium, Fast Water Use: Very Low, Low, Medium, High Drought Tolerance: Low, Medium, High Exposure: Full sun, Partial shade, Shade		Comments: 1. Organic mulch recommended. 2. Many cultivars. 3. Some species may form dense thickets. 4. Not cold hardy below 28°F. 5. Invasive species. 6. Mojave native. 7. Toxic (parts specified). 8. May be trained as a small tree. 9. Needs a protected site (north facing site or afternoon shade).																
		"Bulletproof"	Height (average)	Width (average)	Coverage	Type	Growth Rate	Water Use	Drought Tolerance	Spines or Thorns	Physical Barrier	Hedge or Screen	Exposure					
		BOTANICAL NAME	COMMON NAME	(feet)	(feet)	(sq. feet)	D, E, S	S, M, F	VL, L, M, H	L, M, H	Yes or No	Yes or No	Yes or No	F, P, S				
GROUNDCOVERS (continued)																		
<i>Euonymus fortunei</i> 'Coloratus'	Purple-leaf Wintercreeper		1	3	7	E	M	M	L	N	N	N	P				1	
<i>Euphorbia rigida</i>	Spurge, Gopher Plant	•	2	3	7	E	F	L	H	N	N	N	F					
<i>Gazania rigens</i>	Gazania, Treasure Flower		1	1	1	E	F	L	M	N	N	N	F,P				2	
<i>Glandularia gooddingii</i> (=Verbena)	Goodding Verbena	•	1	3	7	D	M	L	H	N	N	N	F				6	
<i>Glandularia peruviana</i> (=Verbena)	Peruvian Verbena		1	2	3	D	F	L	L	N	N	N	P					
<i>Glandularia pulchella</i> (= Verbena)	Moss Verbena		1	3	7	E	M	L, M	L	N	N	N	F, P					
<i>Glandularia tenera</i> (=Verbena)	Rock Verbena		1	2	3	P	F	L	L	N	N	N	P					
<i>Juniperus chinensis procumbens</i>	Japanese Garden Juniper		2	8	50	E	S	M	L	N	N	N	P				1	
<i>Juniperus conferta</i>	Shore Juniper		1	8	50	E	S	M	L	N	N	N	P				1	
<i>Juniperus horizontalis</i> 'Prince of Wales'	Prince of Wales Juniper		1	4	13	E	S	M	L	N	N	N	P				1	
<i>J. h. 'Wiltonii'</i>	Blue Carpet Juniper		1	6	28	E	S	M	L	N	N	N	P				1	
<i>Juniperus sabina</i> 'Buffalo'	Buffalo Juniper		1	8	50	E	S	M	L	N	N	N	P				1	
<i>Lantana montevidensis</i>	Trailing Lantana		1	6	28	D	F	L	M	N	N	N	F				7 (berries, leaves)	
<i>Lippia nodiflora</i> sterile cultivars (=Phyla)	Kurapia		1	3	7	S	M	L,M	M	N	N	N	F,P,S				1	
<i>Malephora crocea</i>	Gray Ice Plant, Coppery Mesemb		1	3	7	E	M	L, M	M	N	N	N	F, P					
<i>Malephora lutea</i>	Rocky Point Ice Plant		1	3	7	E	M	L, M	M	N	N	N	F, P					
<i>Mirabilis multiflora</i>	Four O'Clock	•	2	2	3	D	F	L	H	N	N	N	F,P,S				6	
<i>Muehlenbeckia axillaris</i>	Creeping Wire Vine		1	3	7	E	F	M	M	N	N	N	P					
<i>Myoporum brevifolium</i> 'Emerald Gem'	Small Leaf Myoporum		1	4	13	D	M	L,M	H	N	N	N	F,P					
<i>Myoporum parvifolium</i>	Prostrate Myoporum		1	8	50	D	F	L	H	N	N	N	F					
<i>Pyracantha fortuneana</i> 'Santa Cruz'	Santa Cruz Pyracantha, Firethorn		2	5	20	E	M	M	M	Y	Y	Y	P				1	
<i>Rosmarinus officinalis</i> 'prostratus'	Prostrate Rosemary		2	4	13	E	F	L	H	N	N	N	Y	F				
<i>Sedum spectabile</i>	Stonecrop		1	2	3	E	F	L	M	N	N	N	P					
<i>Sphaeralcea grossulariifolia</i>	Goosefoot Mallow	•	2	4	13	E	F	VL	H	N	N	N	P				6	
<i>Stachys coccinea</i>	Texas Betony, Scarlet Hedge Nettle		1	2	3	E, S	M	M	M	N	N	N	F, P					
<i>Tradescantia pallida</i> 'Purpurea'	Purple Heart, Wandering Jew		1	2	3	E	M	L, M	L	N	N	N	F, P				1	
<i>Verbena rigida</i>	Sandpaper Verbena, Coarse Verbena		1	3	7	P	F	L	L	N	N	N	F					
<i>Vinca minor</i>	Dwarf Periwinkle		2	2	3	E	S,M	M, H	L	N	N	N	P, S				1	
VINES																		
<i>Antigonon leptopus</i>	Queen's Wreath, Coral Vine		15	10	79	D	M,F	L, M	M	N	N	N	F					
<i>Callaeum lilacena</i> (=Mascagnia)	Orchid Vine		12	5	20	D	F	L	H	N	N	N	F					
<i>Campsis</i> sp.	Trumpet Creeper		10	10	79	D	F	M	L	N	N	N	P				2	
<i>Cissus trifoliata</i> var. <i>incisa</i>	Grape Ivy, Arizona Grape Ivy		10	5	20	S	M	L, M	M	N	N	N	P, S					
<i>Clematis ligusticifolia</i>	Western Virgin's Bower	•	12	5	20	S	F	M	M	N	N	N	F,P,S				6	
<i>Ficus pumila</i>	Creeping Fig		10	5	20	E	M	M	M	N	N	N	P,S					
<i>Gelsemium sempervirens</i>	Carolina Jasmine		10	5	20	E	M	H	L	N	N	N	P				1	
<i>Hardenbergia violacea</i>	Happy Wanderer, Lilac Vine		10	5	20	E	M	H	L	N	N	N	P					
<i>Jasminum mesnyi</i>	Primrose Jasmine		10	5	20	E	M	M	L	N	N	N	P				1	
<i>Lonicera japonica</i> 'Halliana'	Hall's / Japanese Honeysuckle		15	10	79	E	F	M	M	N	N	Y	F, P					
<i>Macfadyena unguis-cati</i>	Cat's Claw Vine		15	10	79	S	M	L	L	N	N	Y	F, P				3	
<i>Maurandya antirrhiniflora</i>	Snapdragon Vine		8	5	20	D	M	L	M	N	N	N	F,P				6	
<i>Parthenocissus</i> sp. 'Hacienda Creeper'	Hacienda Creeper		15	10	79	D	F	L, M	M	N	N	N	F, P					
<i>Polygonum aubertii</i>	Silver Lace Vine		15	5	20	E	M	L	M	N	N	N	F, P					
<i>Rosa banksiae</i>	Lady Bank's Rose		15	10	79	E	M	M	M	Y	N	N	P, F				3	
<i>Solanum jasminoides</i>	Potato Vine		10	5	20	S, D	M,F	M	M	N	N	N	P, F				1, 4	
<i>Tecoma capensis</i>	Cape Honeysuckle		8	5	20	E	M	L	L	N	N	Y	F, P				4	
<i>Vitis arizonica</i>	Canyon Grape	•	10	10	79	D	M	L	M	N	N	N	F				6	
<i>Vitis californica</i>	California Grape	•	10	10	79	D	M	L	M	N	N	N	F, P					
<i>V. c. 'Roger's Red'</i>	Rogers Red Grape	•	10	10	79	D	M	L	M	N	N	N	F, P					
<i>Vitis</i> sp.	Grape		10	10	79	D	M	L	M	N	N	Y	F, P				1	
AGAVES, CACTI, SUCCULENTS, AND YUCCAS																		
<i>Agave americana</i>	Century Plant		5	8	50	E	M	L	H	Y	Y	N	F					
<i>A. a. var. aurea-marginata</i>	Yellow Margin Century Plant		4	5	20	E	S	L	H	Y	Y	N	F, P					
<i>A. a. var. medio-picta</i>	Medio Picta Century Plant		4	6	28	E	S	L	H	Y	Y	N	F					
<i>Agave angustifolia</i> var. <i>marginata</i>	Variegated Agave		3	3	7	E	S	L	H	Y	Y	N	F, P					
<i>Agave bovicornuta</i>	Cow's Horn Agave		4	4	13	E	F	L	H	Y	Y	N	P					
<i>Agave bracteosa</i>	Green Spider Agave		1	1	1	E	S	L	H	N	N	N	F, P					
<i>Agave colorata</i>	Mescal Ceniza		3	3	7	E	M	L	H	Y	Y	N	F					
<i>Agave desmettiana</i>	Smooth Agave		3	3	7	E	F	L	H	Y	Y	N	F, P					
<i>Agave filifera</i>	Thread-leaf Agave, Dark Green Agave		2	2	3	E	M	L	H	Y	Y	N	F, P					
<i>Agave geminiflora</i>	Twin-Flowered Agave		3	4	13	E	M	L	H	Y	Y	N	F, P, S					
<i>Agave havardiana</i>	Havard Agave		3	4	13	E	M	L	H	Y	Y	N	F, P					
<i>Agave montana</i>	Mountain Agave		4	5	20	E	S	L	H	Y	Y	N	F, P					
<i>Agave multiflora</i>	Chahuíqui		3	4	13	E	S	L, M	M	Y	Y	N	F, P					
<i>Agave murpheyi</i>	Murphey's Agave		3	3	7	E	M	L	H	Y	N	N	F					
<i>Agave ocahui</i>	Agave Ocahui		2	3	7	E	S	VL	H	Y	Y	N	F					
<i>Agave ovatifolia</i>	Whale's Tounge Agave		3	4	13	E	S,M	L	H	Y	Y	N	F, P					

KEY		"Bulletproof"	Height (average)	Width (average)	Coverage	Type	Growth Rate	Water Use	Drought Tolerance	Spines or Thorns	Physical Barrier	Hedge or Screen	Exposure	COMMENTS
BOTANICAL NAME		COMMON NAME	(feet)	(feet)	(sq. feet)	D, E, S	S, M, F	VL, L, M, H	L, M, H	Yes or No	Yes or No	Yes or No	F, P, S	
AGAVES, CACTI, SUCCULENTS, AND YUCCAS (continued)														
<i>Agave palmeri</i>	Palmer's Agave		3	3	7	E	S	L	H	Y	Y	N	F	
<i>Agave parrasana</i>	Cabbage Head Agave		2	2	3	E	S	L	H	Y	Y	N	F, P	
<i>Agave parryi</i>	Parry's Agave		3	3	7	E	S	L	H	Y	Y	N	F	
<i>A. p. var. huachuensis</i>	Huachuca Agave		2	3	7	E	S	L	H	Y	N	N	F, P	
<i>A. p. var. neomexicana</i>	New Mexico Agave		1	2	3	E	S	L, M	M	Y	Y	N	F, P	
<i>A. p. var. truncata</i>	Artichoke Agave		3	3	7	E	S, M	VL	H	Y	N	N	F, P	
<i>Agave salmiana</i> ssp. <i>ferox</i>	Ferox Agave		6	8	50	E	S, M	L, M	M	Y	Y	N	F, P	
<i>Agave scabra</i>	Rough-Leaved Agave		4	4	13	E	S	L	H	Y	Y	N	F	
<i>Agave schidigera</i> 'Durango Delight' TM	Durango Delight Agave		2	3	7	E	F	L	H	Y	Y	N	F, P	
<i>Agave utahensis</i> ssp. <i>nevadensis</i>	Nevada Agave	●	1	1	1	E	S	VL	H	Y	N	N	F	6
<i>Agave victoriae-reginae</i>	Queen Victoria Agave	●	2	2	3	E	S	L	H	Y	N	N	F	
<i>Agave vilmoriniana</i>	Octopus Agave		4	4	13	E	F	M	M	N	N	N	F, P	
<i>Agave weberi</i>	Weber Agave		5	8	50	E	M, F	L	H	Y	Y	N	F, P	
<i>Aloe arborescens</i>	Tree Aloe		6	6	28	E	S	L	M	Y	N	N	F, P	4
<i>Aloe barbadensis</i>	Aloe Vera		2	2	3	E	S, M	L	M	Y	N	N	F, P	
<i>Aloe ferox</i>	Tap Aloe, Cape Aloe		6	5	20	E	S	L	M	Y	Y	N	F, P	4
<i>Aloe nobiliss</i>	Gold Tooth Aloe		1	1	1	E	S, M	L	M	Y	N	N	F, P	
<i>Aloe saponaria</i>	African Aloe		2	1	1	E	M	L	M	Y	N	N	P	
<i>Aloe x 'Blue Elf'</i>	Blue Elf Aloe		2	2	3	E	S, M	M	M	Y	N	N	P, S	
<i>Aloe x spinosissima</i>	Spider Aloe		3	3	7	E	S	L	H	Y	N	N	P	
<i>Carnegiea gigantea</i>	Saguaro (spear)		12	2	3	E	S	L	H	Y	Y	N	F	
<i>Carnegiea gigantea</i>	Saguaro (with arms)		20	6	28	E	S	L	H	Y	Y	N	F	
<i>Cereus hildmannianus</i> (= <i>peruvianus</i>)	Peruvian Apple		8	3	7	E	M	L	H	Y	Y	N	F	4
<i>Cylindropuntia acanthocarpa</i> (= <i>Opuntia</i>)	Buckhorn Cholla	●	6	6	28	E	M	L	H	Y	Y	N	F	6
<i>Cylindropuntia arbuscula</i> (= <i>Opuntia</i>)	Pencil Cholla	●	8	3	7	E	M	L	H	Y	Y	N	F	
<i>Cylindropuntia bigelovii</i> (= <i>Opuntia</i>)	Teddy Bear Cholla	●	6	4	13	E	M	L	H	Y	Y	N	F	6
<i>Cylindropuntia echinocarpa</i> (= <i>Opuntia</i>)	Silver Cholla	●	3	4	13	E	M	L	H	Y	Y	N	F	6
<i>Cylindropuntia fulgida</i> (= <i>Opuntia</i>)	Chain-Fruit Cholla, Jumping Cactus		8	5	20	E	M	L	H	Y	Y	N	F	
<i>Cylindropuntia ramosissima</i> (= <i>Opuntia</i>)	Diamond Cholla	●	3	5	20	E	S, M	L	H	Y	Y	N	F	6
<i>Cylindropuntia versicolor</i> (= <i>Opuntia</i>)	Staghorn Cholla	●	6	5	20	E	M	L	H	Y	Y	N	F	
<i>Dasyliro acrotriche</i>	Green Desert Spoon	●	5	6	28	E	M	L	H	Y	Y	N	F	
<i>Dasyliro longissimum</i>	Stick Palm, Mexican Grass Tree	●	8	6	28	E	M	L	H	Y	Y	N	F	
<i>Dasyliro wheeleri</i>	Desert Spoon	●	5	6	28	E	M	L	H	Y	Y	N	F	
<i>Echinocactus grusonii</i>	Golden Barrel		2	3	7	E	M	L	H	Y	Y	N	F	
<i>Echinocactus polycephalus</i>	Cottontop Cactus	●	2	3	7	E	S	VL	H	Y	N	N	F	6
<i>Echinocereus engelmannii</i>	Strawberry Hedgehog	●	1	3	7	E	S	L	H	Y	N	N	F	6
<i>Echinocereus triglochidiatus</i>	Claret Cup	●	1	2	3	E	S, M	L	H	Y	N	N	F	6
<i>Escobaria vivipara</i> (= <i>Coryphantha</i>)	Common Pincushion	●	1	1	1	E	S, M	L	H	Y	N	N	F, P	6
<i>E. v. var. bisbeana</i>	Beehive Cactus	●	1	1	1	E	S, M	L	H	Y	N	N	F, P	
<i>Ferocactus acanthodes</i> (= <i>Cylindraceus</i>)	Compass Barrel Cactus	●	6	2	3	E	S	L	H	Y	Y	N	F	6
<i>Ferocactus wislizenii</i>	Fishhook Barrel Cactus	●	6	2	3	E	S, M	L	H	Y	N	N	F	
<i>Fouquieria splendens</i>	Ocotillo	●	12	6	28	D	S	L	H	Y	Y	N	F, P	6
<i>Hesperaloe campanulata</i>	Bell-flowered Hesperaloe		3	3	7	E	M	L	H	N	N	Y	F, P	
<i>Hesperaloe funifera</i>	Giant Sword Flower	●	6	6	28	E	M	L	H	N	N	Y	F	
<i>Hesperaloe nocturna</i>	Night Blooming Yucca	●	5	6	28	E	M	L	H	N	N	Y	F	
<i>Hesperaloe parviflora</i>	Red Yucca	●	3	3	7	E	M	L	H	N	N	Y	F	
<i>H. p. 'Yellow'</i>	Yellow Yucca	●	3	3	7	E	M	L	H	N	N	Y	F	
<i>Mammillaria tetrancistra</i>	Pincushion / Fishhook Cactus	●	1	1	1	E	S, M	L	H	Y	N	N	F, P	6
<i>Nolina bigelovii</i>	Bigelow's Nolina	●	6	4	13	E	M	L	H	N	N	Y	F	6
<i>Nolina matapensis</i>	Treebear Grass	●	12	6	28	E	M	L	H	N	N	Y	F	
<i>Nolina microcarpa</i>	Bear Grass	●	4	5	20	E	M	L	H	N	N	Y	F	
<i>Nolina nelsoni</i>	Blue Nolina	●	5	5	20	E	M	L	H	N	N	Y	F	
<i>Nolina texana</i>	Texas Bear Grass, Devil's Shoestring	●	3	3	7	E	M	L	H	N	N	Y	F	
<i>Opuntia basilaris</i>	Beavertail Cactus	●	1	4	13	E	M	L	H	Y	Y	N	F	6
<i>Opuntia chlorotica</i>	Pancake Prickly Pear	●	4	5	20	E	M	L	H	Y	Y	N	F	6
<i>Opuntia engelmannii</i>	Engelmann's Prickly Pear	●	6	6	28	E	S, M	L	H	Y	Y	N	F, P	6
<i>O. e. acicularis</i>	Bristly Prickly Pear	●	8	10	79	E	M	L	H	Y	Y	N	F, P	
<i>O. e. linguiformis</i>	Cow's Tongue, Angel's Wing Cactus	●	6	8	50	E	M	L	H	Y	Y	N	F	
<i>Opuntia erinacea</i> 'erinacea'	Old Man Prickly Pear	●	2	3	7	E	S, M	L	H	Y	Y	N	F	6
<i>Opuntia ficus-indica</i>	Indian Fig Cactus	●	15	10	79	E	M, F	L	M	N, Y	Y	Y	F	
<i>Opuntia macrocentra</i>	Black Spine Prickly Pear	●	4	3	8	E	M	L	H	N	N	Y	F	
<i>Opuntia microdasys</i>	Bunny Ears	●	3	5	20	E	M	L	H	Y	Y	N	F	
<i>Opuntia phaeacantha</i>	Mojave Prickly Pear	●	3	6	28	E	S	L	H	Y	Y	N	F	6
<i>Opuntia paraguayensis</i>	Paraguay Cactus, Orange Tuna Cactus		6	4	13	E	M	L	M	Y	Y	N	F, P	
<i>Opuntia riviireana</i>	Orange Tuna Cactus	●	5	8	50	E	M	L	H	Y	Y	N	F	
<i>Opuntia robusta</i>	Silver Dollar Cactus, Giant Prickly Pear	●	18	10	79	E	M	L	H	Y	Y	N	F	

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BOTANICAL NAME		COMMON NAME	(feet)	(feet)	(sq. feet)	D, E, S	S, M, F	VL, L, M, H	L, M, H	Yes or No	Yes or No	Yes or No	F, P, S	
AGAVES, CACTI, SUCCULENTS, AND YUCCAS (continued)														
<i>Opuntia santa rita</i> 'Tubac' (= <i>O. violacea</i> 'Santa Rita')	Purple Prickly Pear, Purple Pancake	●	4	6	28	E	M	L	H	Y	Y	N	F	
<i>Opuntia turpinii</i> (= <i>Tephrocactus</i>)	Pine Cone Prickly Pear, Paper Spine Cactus	●	1	2	3	E	M	L	H	N	N	N	P	
<i>Oreocereus celsianus</i>	Old Man Of the Andes	●	6	2	3	E	M	L	H	Y	N	N	F, P	
<i>Tephrocactus articulatus</i>	Paper Spine Cactus, Pine Cone Cactus		1	3	7	E	S	L	M	Y	Y	N	F, P	
<i>Trichocereus pachanoi</i> (= <i>Echinopsis</i>)	San Pedro Cactus		8	6	28	E	M	L	H	Y	N	N	F	
<i>Trichocereus spachianus</i> (= <i>Echinopsis</i>)	Golden Torch Cactus		6	3	7	E	S	M	L	H	Y	N	F, P	2
<i>Trichocereus</i> sp (= <i>Echinopsis</i>)	Cacti		15	3	7	E	M	L	H	Y	N	N	F	
<i>Yucca aloifolia</i>	Spanish Bayonet		8	8	50	E	S	L	H	Y	Y	N	F	
<i>Yucca australis</i>	Australis Yucca		30	10	79	E	S	L	H	Y	N	N	F	
<i>Yucca baccata</i>	Banana Yucca	●	4	6	28	E	S	L	H	Y	Y	N	F, P	6
<i>Yucca brevifolia</i>	Joshua Tree	●	15	10	79	E	S	L	H	Y	N	N	F	6
<i>Yucca constricta</i>	Constricta Yucca		4	3	7	E	S	L	H	Y	N	N	F	
<i>Yucca elata</i>	Soapstone Yucca	●	10	8	50	E	S	L	H	Y	N	N	F, P	
<i>Yucca faxoniana</i>	Palm Yucca	●	12	6	28	E	S	L	H	Y	N	N	F	
<i>Yucca filamentosa</i>	Adam's Needle		3	3	7	E	M	L	H	Y	Y	N	F, P	
<i>Yucca glauca</i>	Soapweed, Narrowleaf Yucca		3	4	13	E	S	L	H	Y	Y	N	F	
<i>Yucca gloriosa</i>	Spanish Dagger		10	8	50	E	S, M	L	H	N	N	N	F, P	
<i>Yucca harrimaniae</i>	Harriman's Yucca	●	1	1	1	E	S	L	H	Y	N	N	F	
<i>Yucca pallida</i>	Pale Leaf Yucca		1	2	3	E	S	L	H	Y	N	N	F	
<i>Yucca gloriosa</i> var. <i>tristis</i> (= <i>Y. recurvifolia</i>)	Weeping Yucca, Pendulous Yucca		6	6	28	E	S	L	H	Y	N	N	F, P	
<i>Yucca rigida</i>	Blue Yucca	●	12	3	7	E	M	L	H	Y	N	N	F	
<i>Yucca rostrata</i>	Beaked Yucca	●	10	3	7	E	S, M	L	H	Y	N	N	F	
<i>Yucca rupicola</i>	Twisted Yucca	●	2	3	7	E	S	L	H	N	N	N	F, P	
<i>Yucca schidigera</i>	Mojave Yucca	●	8	8	50	E	S	L	H	Y	N	N	F	6
<i>Yucca schottii</i>	Mountain Yucca		12	5	20	E	S, M	L	H	Y	N	N	F, P	
<i>Yucca thompsoniana</i>	Thompson's Yucca		10	8	50	E	S	L	H	Y	Y	N	F	
<i>Yucca torreyi</i>	Torrey Yucca		15	6	28	E	S	L	H	Y	Y	N	F	
<i>Yucca whipplei</i>	Our Lord's Candle, Chaparral Yucca	●	3	6	28	E	S	L	H	Y	Y	N	F	6
ORNAMENTAL GRASSES														
<i>Achnatherum hymenoides</i> (= <i>Oryzopsis</i>)	Indian Ricegrass	●	1	1	1	D	F	VL	H	N	N	N	F	6
<i>Achnatherum speciosum</i>	Desert Needlegrass	●	1	1	1	D	F	VL	H	N	N	N	F	6
<i>Aristida purpurea</i>	Purple Threeawn	●	2	2	3	E	F	L	H	N	N	N	F	5, 6
<i>Bouteloua curtipendula</i>	Side-Oats Grama	●	2	2	3	D	F	L	H	N	N	N	F, P	6
<i>Bouteloua gracilis</i>	Blue Grama Grass	●	2	2	3	E	F	VL	H	N	N	N	F	6
<i>Calamagrostis x acutifolia</i>	Feather Reed Grass		3	3	7	E	F	L	H	N	N	N	F, P	
<i>Cortaderia selloana</i>	Pampas Grass		8	15	177	E	F	L	H	N	Y	Y	F, P	5
<i>C. s. 'Pumila'</i>	Dwarf Pampas Grass		4	4	13	E	F	L	H	N	Y	Y	F, P	5
<i>Festuca ovina</i>	Blue Fescue		1	1	1	E	F	M	M	N	N	N	F	2
<i>F. o. var. brachyphylla</i>	Sheep Fescue		1	1	1	E	F	M	M	N	N	N	F	6
<i>Helictotrichon sempervirens</i>	Blue Oat Grass		2	2	3	E, S	M	M	M	N	N	N	F	
<i>Miscanthus sinensis</i>	Maiden Grass, Japanese Silver Grass		5	4	12	D	M	M	M	N	N	N	F, P	
<i>M. s. 'Variegata'</i>	Variegated Maiden Grass		5	4	12	D	M	M	M	N	N	N	F, P	
<i>Muhlenbergia capillaris</i> 'Regal Mist'	Regal Mist Muhly Grass	●	3	3	7	D	F	L	M	N	N	N	F, P	
<i>Muhlenbergia dumosa</i>	Bamboo Muhly, Fairy Bamboo		4	4	13	E, S	M, F	L, M	M	N	N	N	F, P	
<i>Muhlenbergia emersleyi</i> 'El Toro'	Bull Grass	●	3	3	7	E	F	VL	H	N	N	N	F, P	
<i>Muhlenbergia lindheimeri</i> 'Autumn Glow'	Autumn Glow	●	5	5	20	D	F	L	H	N	N	Y	F, P	
<i>Muhlenbergia rigens</i>	Deer Grass	●	4	4	13	D	M	M	H	N	N	N	F, P	6
<i>Muhlenbergia rigida</i> 'Nashville'	Nashville	●	2	2	3	E	M	M	H	N	N	N	F, P	
<i>Nasella tenuissima</i> (= <i>Stipa tenuissima</i>)	Mexican Feather Grass		2	2	3	D	M	M	M	N	N	N	F, P	5
<i>Ophiopogon japonicus</i>	Mondo Grass		1	1	1	E	M	M	L	N	N	N	P, S	2
<i>Pennisetum alopecuroides</i>	Black Moudry		5	5	20	S	F	M	L	N	N	Y	F, P	2
<i>Pennisetum x advena</i> 'Rubrum' 'Cupreum'	Purple Fountain Grass		4	3	7	S	F	M	L	N	N	Y	F	
<i>Phyllostachys aurea</i>	Golden Bamboo		15	10	79	D	F	M	L	N	Y	Y	F, P	3, 5
<i>Pleuraphis rigida</i> (= <i>Hilaria rigida</i>)	Big Galleta Grass	●	3	2	3	S	F	VL	H	N	N	N	F	6
<i>Sorghastrum nutans</i>	Indian Grass		4	2	3	S	F	M	M	N	N	N	F	
<i>Sporobolus airoides</i>	Alkali Sacaton Grass	●	4	2	3	D	M	L	M	N	N	N	F	6
<i>Stipa gigantea</i>	Giant Feather Grass, Golden Oats		3	2	3	S	M	M	L	N	N	N	F	
PERENNIALS (small accent areas only)														
<i>Achillea filipendulina</i>	Fern Leaf Yarrow		3	3	7	E	F	L	M	N	N	N	F	2
<i>Agapanthus africanus</i>	Lily of the Nile		3	3	7	E	M	M	L	N	N	N	P	1
<i>Amsonia tomentosa</i>	Desert Bluestar	●	1	1	1	D	M	VL	H	N	N	N	F	6
<i>Anemopsis californica</i>	Yerba Mansa		1	1	1	D	M	M	L	N	N	N	P, S	6, 7 (leaves)
<i>Artemisia ludoviciana</i>	Prairie Sage	●	3	3	7	D	F	L	M	N	N	N	F, P	6
<i>A. l. albula</i> 'Silver King'	Silver King Artemisia	●	3	3	7	D	F	L	M	N	N	N	F, P	
<i>Artemisia x 'Powis Castle'</i>	Powis Castle Wormwood	●	2	3	7	E	F	L	M	N	N	N	F, P	
<i>Artemisia schmidtiana</i> 'Silver Mound'	Angel's Hair, Silver Mound Artemisia		1	2	3	E	M	L	M	N	N	N	F, P	

KEY															COMMENTS
"Bulletproof": Extremely drought tolerant, cold hardy, and pest and disease resistant once established. Height, Width, Coverage at mature growth. Type: Deciduous, Evergreen, Semi-evergreen Growth Rate: Slow, Medium, Fast Water Use: Very Low, Low, Medium, High Drought Tolerance: Low, Medium, High Exposure: Full sun, Partial shade, Shade		Comments: 1. Organic mulch recommended. 2. Many cultivars. 3. Some species may form dense thickets. 4. Not cold hardy below 28°F. 5. Invasive species. 6. Mojave native. 7. Toxic (parts specified). 8. May be trained as a small tree. 9. Needs a protected site (north facing site or afternoon shade).													
BOTANICAL NAME	COMMON NAME	"Bulletproof"	Height (average) (feet)	Width (average) (feet)	Coverage (sq. feet)	Type D, E, S	Growth Rate S, M, F	Water Use VL, L, M, H	Drought Tolerance L, M, H	Spines or Thorns Yes or No	Physical Barrier Yes or No	Hedge or Screen Yes or No	Exposure F, P, S		
PERENNIALS (continued)															
Astragalus preussii	Preuss' Milkvetch	●	2	2	3	D	F	VL	H	N	N	N	F	6	
Baileya multiradiata	Desert Marigold	●	1	2	3	D	M	L	H	N	N	N	F	6	
Berlandiera lyrata	Chocolate Flower	●	1	2	3	E	F	L	H	N	N	N	F, P		
Convolvulus tricolor	Dwarf Morning Glory		1	2	3	D	F	L	L	N	N	N	F, P		
Coreopsis lanceolata	Sunray		1	1	1	S	F	M	L	N	N	N	F		
Echinacea purpurea	Purple Coneflower		3	2	3	S	M	M	L	N	N	N	F, P	1	
Enceliopsis argophylla	Silverleaf Sunray	●	1	1	1	S	F	VL	H	N	N	N	F	6	
Epilobium canum (=Zauschneria californica)	Hummingbird Flower		3	4	13	D	M	L	M	N	N	N	F, P	3	
Erigeron divergens	Native Fleabane	●	1	3	7	E	F	VL	H	N	N	N	F, P	6	
Erigeron karvinskianus	Santa Barbara Daisy, Mexican Daisy		1	3	7	E	F	L	H	N	N	N	F, P		
Eschscholzia californica	California Poppy, Golden Poppy		1	1	1	D	F	L	M	N	N	N	F	6	
Gaillardia aristata (=grandiflora)	Blanket Flower		2	2	3	E	F	M	L	N	N	N	F		
Gaura coccinea	Scarlet Gaura	●	1	2	3	D	F	L	H	N	N	N	F, P	6	
Gaura lindheimeri	Gaura		3	4	13	D	M	M	L	N	N	N	F, P	2	
Gazania rigida	Gazania		1	1	1	E	M	L	M	N	N	N	F, P		
Iberis sempervirens	Evergreen Candytuft		1	2	3	E	M	L	L	N	N	N	F, P		
Ipomopsis arizonica (=Gilia aggregata)	Skyrocket	●	2	1	1	E	F	L	H	N	N	N	F, P, S	6	
Kallstroemia grandiflora	Arizona Poppy, Orange Caltrop		1	1	1	S	F	L	M	N	N	N	F		
Lavandula sp.	Lavender		2	3	7	E	F	M	M	N	N	N	F	2	
Lepidium fremontii	Desert Alyssium	●	2	2	3	D	F	VL	H	N	N	N	F	6	
Liatris spicata	Gayfeather, Blazing Star		2	2	3	S	M	L, M	M	N	N	N	F, P		
Linum lewisii	Blue Flax		2	1	1	D	M	L	M	N	N	N	F	6	
Lippia repens	Lippia		1	2	3	S	M	L	M	N	N	N	F, P		
Liriope gigantea	Giant Lily Turf		2	2	3	S	F	M	L	N	N	N	P, S		
Liriope muscari	Lily Turf		1	1	1	E	F	M	L	N	N	N	P, S		
Lobularia maritima	Sweet Alyssum		1	1	1	S	M	M	L	N	N	N	F, P	1	
Manfreda maculosa	Texas Tuberose, Spice Lily		1	1	1	D	S, M	L, M	M	N	N	N	P, S		
Melampodium leucanthum	Blackfoot Daisy		1	2	3	S	M	L	M	N	N	N	F, P		
Oenothera caespitosa	Angel Wing/White Evening Primrose	●	1	2	3	E	F	M	L	N	N	N	F, P	6	
Oenothera elata (=O. hookeri)	Hooker's Evening Primrose		3	1	1	D	F	M	M	N	N	N	F, P, S	5, 6	
Osteospermum fruticosum	African Trailing Daisy, Freeway Daisy		1	4	13	E, S	M, F	M	M	N	N	N	F, P, S		
Penstemon amplexicaulis	Mexican Blue Penstemon		1	2	3	S	M	L, M	M	N	N	N	F, P		
Penstemon baccharifolius 'Del Rio'	Del Rio Penstemon		3	3	7	S	M	L	M	N	N	N	F, P		
Penstemon barbatus	Scarlet Bugler, Scarlet Beardtongue		4	2	3	E	M	L	M	N	N	N	F, P		
Penstemon bicolor	Pinto Beardtongue	●	2	2	3	E	F	VL	H	N	N	N	F	6	
P. b. ssp.roseus	Rosy Two-tone Beardtongue	●	2	2	3	S	F	L	H	N	N	N	F, P, S	6	
Penstemon eatonii	Firecracker Penstemon	●	3	2	3	E	M	L	H	N	N	N	F, P	6	
Penstemon palmeri	Scented Penstemon	●	4	2	3	E	F	VL	H	N	N	N	F	6	
Penstemon parryi	Parry's Penstemon	●	2	3	7	E	F	L	H	N	N	N	F, P		
Penstemon pseudospectabilis	Canyon Penstemon	●	2	4	13	E	F	L	H	N	N	N	F		
Penstemon rostriflorus	Bridge Penstemon		2	1	1	E	M	L	H	N	N	N	F, P	6	
Penstemon strictus	Rocky Mountain Penstemon		2	2	3	E	F	L	M	N	N	N	F, P		
Penstemon superbus	Superb Penstemon, Coral Beardtongue		4	3	7	E	F	L, M	M	N	N	N	F, P		
Penstemon sp.	Penstemon		2	3	7	S	M, F	L	M	N	N	N	F	2	
Perovskia atriplicifolia	Russian Sage	●	3	2	3	D	M	L	H	N	N	N	F, P		
Psilostrophe cooperi	Paper Flower	●	2	3	7	D	F	L	H	N	N	N	F, P	6	
Psilostrophe tagetina	Wooly Paper Flower	●	2	3	7	D	F	L	H	N	N	N	F, P		
Ratibida columnifera	Mexican Hat		1	2	3	D	F	L	H	N	N	N	F, P		
Rudbeckia hirta	Black-eyed Susan		2	2	3	D	F	L	H	N	N	N	F, P		
Ruellia brittoniana	Wild Petunia		2	3	7	E	F	L	H	N	N	N	F, P, S	5	
R. b. vars. 'Katie', 'Rosa', 'Blanca'	Dwarf Ruellia		1	2	3	E	M	M	M	N	N	N	F, P		
Sphaeralcea ambigua	Globe Mallow	●	3	3	7	S	F	L	H	N	N	N	F, P, S	2, 6	
Stanleya pinnata	Desert Prince's Plume	●	4	3	7	D	F	VL	H	N	N	N	F	6	
Tagetes lemmonii	Mountain Marigold		4	4	13	S	F	M	M	N	N	N	F		
Tagetes lucida	Mexican Tarragon, Mexican Marigold		3	3	7	S	M, F	M	M	N	N	N	F, P		
Tetrameuris acaulis (=Hymenoxys)	Angelita Daisy	●	1	1	1	E	M	L, M	M	N	N	N	F, P		
Thymophylla pentachaeta (=Dyssodia)	Golden Dogbane, Golden Dyssodia	●	1	2	3	E	F	VL	H	N	N	N	F	6	
Thymophylla tenuiloba (=Dyssodia)	Dahlberg Daisy	●	1	1	1	E	S	L	H	N	N	N	F		
Tulbaghia violacea	Society Garlic		1	1	1	S	M	M	M	N	N	N	F, P		
Viguiera parishii (=deltoidea)	Goldeneye	●	3	3	7	S	M	VL	H	N	N	N	F	6	
Xylorhiza tortifolia	Mojave Aster	●	1	1	1	D	M	VL	H	N	N	N	F	6	
Zinnia acerosa	Desert Zinnia	●	1	1	1	D	F	L	H	N	N	N	F, P		
Zinnia grandiflora	Prairie Zinnia		1	1	1	D	F	L	H	N	N	N	F, P		
PLANTS WITH SPECIAL NEEDS (NOT SUITABLE FOR ALL LOCATIONS)															
Shrub	Asparagus densiflorus 'Meyers'		2	3	7	E	M	M	L	N	N	N	P, S	1	
Groundcove	A. d. 'Sprengerii'		2	4	13	E	M	M	M	N	N	N	P, S	1, 4	
Shrub	Aspidistra elatior		2	2	3	E	M	H	L	N	N	N	S	1	
Shrub	Aucuba japonica 'Variegata'		8	8	50	E	S	M	M	N	N	N	S	1	
Shrub	Berberis aquifolium (=Mahonia)		4	5	20	E, S	S	L	M	Y	Y	Y	P, S	1	
Vine	Bougainvillea sp.		10	5	20	D	M	M	M	Y	Y	N	S	4	

KEY			"Bulletproof"	Height (average) (feet)	Width (average) (feet)	Coverage (sq. feet)	Type D, E, S	Growth Rate S, M, F	Water Use VL, L, M, H	Drought Tolerance L, M, H	Spines or Thorns Yes or No	Physical Barrier Yes or No	Hedge or Screen Yes or No	Exposure F, P, S	COMMENTS	
BOTANICAL NAME																COMMON NAME
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Comments: 1. Organic mulch recommended. 2. Many cultivars. 3. Some species may form dense thickets. 4. Not cold hardy below 28°F. 5. Invasive species. 6. Mojave native. 7. Toxic (parts specified). 8. May be trained as a small tree. 9. Needs a protected site (north facing site or afternoon shade).																
PLANTS WITH SPECIAL NEEDS (continued)																
Perennial	<i>Canna</i> hybrids	Canna		6	3	7	D	F	M,H	L	N	N	N	P	1, 2	
Agave, etc	<i>Cephalocereus senilis</i>	Old Man Cactus		6	4	13	F	S	L	M	Y	Y	N	P	4	
Perennial	<i>Cuphea ilavea</i>	Bat-faced Cuphea		2	3	7	E	M	H	L	N	N	N	P	1	
Perennial	<i>Dietes bicolor</i>	Fortnight Lily, Evergreen Iris		2	2	3	E	M	M	M	N	N	N	P, S	1	
Perennial	<i>Dietes vegeta</i> (=iridoides)	Butterfly Iris, African Iris		2	2	3	E	M	M	M	N	N	N	P, S	1	
Perennial	<i>Erysimum linifolium</i>	Wallflower		2	2	3	E	M	L, M	M	N	N	N	P	1	
Shrub	<i>Euryops pectinatus</i>	Yellow Bush Daisy, Euryops Daisy		3	3	7	E	F	L	H	N	N	Y	F	1	
Shrub	<i>E. p. 'Viridis'</i>	Green Bush Daisy		3	3	7	E	F	L	H	N	N	Y	F	1	
Shrub	<i>Fatsia japonica</i>	Japanese Aralia		6	6	28	E	F	H	L	N	N	N	S	1	
Shrub	<i>Genista racemosa</i>	Sweet Broom		6	6	28	E	F	M	M	N	N	N	F	1	
Vine	<i>Hedera canariensis</i>	Algerian Ivy		10	5	20	E	F	M,H	L,M	N	N	N	P, S	1	
Vine	<i>Hedera helix</i>	English Ivy		10	5	20	E	F	M,H	L,M	N	N	N	P, S	1, 7(all parts)	
Perennial	<i>Hemerocallis</i> hybrids	Daylily Hybrids		2	2	3	E	M	M,H	L	N	N	N	P	1, 2	
Shrub	<i>Hibiscus</i> sp.	Hibiscus		4	4	13	D,E,S	M	M,H	L	N	N	N	P	1, 2, some 4	
Shrub	<i>Hyptis emoryi</i>	Desert Lavender		6	6	28	S	S,M	L	H	N	N	N	F, P	4, 6	
Shrub	<i>Ilex cornuta</i>	Chinese Holly		8	8	50	E	M	M	M	Y	Y	Y	F,P	2	
Shrub	<i>I. c. 'Burfordii Nana'</i>	Dwarf Burford Holly		6	6	28	E	M	M	M	N	Y	Y	F,P		
Shrub	<i>Ilex vomitoria 'Nana'</i>	Dwarf Yaupon Holly		3	3	7	E	M	M	M	N	Y	Y	F,P		
Shrub	<i>Ilex</i> sp.	Holly		20	10	79	D,E	S	M	M	Y	Y	Y	F,P	1, 2	
Perennial	<i>Iris</i> sp.	Iris		3	2	3	D, S	M	M,H	L	N	N	N	P	1, 2, some 4	
Vine	<i>Jasminum polyanthum</i>	Pink Jasmine		10	5	20	S	M,F	M	M	N	N	N	P	1	
Shrub	<i>Lagerstroemia indica</i> dwarf	Dwarf Crape Myrtle		6	6	28	D	S	M	M	N	N	Y	F, P	1, 2	
Shrub	<i>Ligustrum japonicum</i>	Waxleaf Privet, Japanese Privet		8	8	50	E	S	M	M	N	Y	Y	P, S	1	
Shrub	<i>Nandina domestica</i>	Heavenly Bamboo		6	4	13	E,S	S	L	M	N	Y	Y	P, S	1	
Shrub	<i>N. d. 'Nana'</i>	Dwarf Heavenly Bamboo		4	3	7	E,S	S	L	M	N	Y	Y	P, S	1	
Vine	<i>Parthenocissus quinquefolia</i>	Virginia Creeper		10	5	20	D, S	F	M	L	N	N	N	P, S	1, 5	
Vine	<i>Parthenocissus tricuspidata</i>	Boston Ivy, Japanese Creeper		10	5	20	D, S	F	M	L	N	N	N	P	1	
Shrub	<i>Phormium</i> sp.	Flax		3	3	7	E	M	M	L	N	N	N	P	1, 2, some 4	
Shrub	<i>Photinia x fraseri</i>	Redtip Photinia, Fraser's Photinia		8	6	28	E	S	M	M	N	Y	Y	P, S	1	
Shrub	<i>Pittosporum tobira</i>	Japanese Mock Orange		8	8	50	E	S	M	M	N	Y	Y	P, S	1	
Shrub	<i>P. t. 'Variegata'</i>	Variegated Mock Orange		8	8	50	E	S	M	M	N	Y	Y	P, S	1	
Shrub	<i>P. t. 'Wheeler's Dwarf'</i>	Wheeler's Dwarf Mock Orange		2	4	13	E	S	M	M	N	N	N	P, S	1	
Shrub	<i>Platycladus orientalis 'Aurea Nana'</i>	Golden Arborvitae		4	2	3	E	S	M	M	N	Y	Y	P, S	1	
Shrub	<i>Podocarpus gracillor</i>	Fern Pine		10	3	7	E	S	M	M	N	Y	Y	P, S	1	
Shrub	<i>Prunus caroliniana 'Compacta'</i>	Compact Carolina Cherry		8	6	28	E	S	M	M	N	Y	Y	P, S	1	
Shrub	<i>Raphiolepis indica</i>	Indian Hawthorn		4	4	13	E	S	L	M	N	N	Y	P, S	1, 2	
Groundcover	<i>Stachys byzantina</i>	Lamb's Ear		1	2	3	E	F	M	M	N	N	N	P	1	
Agave, etc	<i>Stenocereus thurberi</i>	Organ Pipe Cactus		10	3	7	E	S	L	H	Y	Y	N	F, P	4	
Vine	<i>Trachelospermum asiaticum</i>	Asiatic Jasmine		10	5	20	E	S	M	M	N	N	N	P, S	1	
Vine	<i>Trachelospermum jasminoides</i>	Star Jasmine		10	5	20	E	S	M	M	N	N	N	P, S	1	
Shrub	<i>Viburnum</i> sp.	Viburnum		8	8	50	E	S	M	M	N	Y	Y	P, S	1	
Vine	<i>Wisteria sinensis</i>	Chinese Wisteria		10	8	20	D	F	M,H	L	N	N	N	P, F	1	
Perennial	<i>Zephyranthes</i> sp.	Fairy Lily, Rain Lily		1	1	1	E, D	M	M	L	N	N	N	P	2	
REFERENCES																
Floridata Plant Profile List: http://www.floridata.com/lists/contents.cfm																
Lady Bird Johnson Wildflower Center Native Plant Database: http://www.wildflower.org/plants/																
Learn2Grow Plants Search: http://www.learn2grow.com/plants/																
Mountain States Wholesale Nursery: http://www.mswm.com																
Sunset Plant Finder: http://plantfinder.sunset.com/sunset/																
United States Department of Agriculture Plants Database: http://plants.usda.gov/																
University of Arizona Arid Plant List: http://ag.arizona.edu/pima/gardening/aridplants/aridplant_botindex.html																



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