

WUCOLS

WATER USE CLASSIFICATION OF LANDSCAPE SPECIES

A Guide to the Water Needs of Landscape Plants

Revised 4/1/94

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PERSPECTIVE

This project was initiated and funded by the Water Conservation Office of the California Department of Water Resources. The work was performed by the University of California Cooperative Extension (San Francisco and San Mateo County Office) in cooperation with 32 landscape professionals. Work began in January, 1991 and a project report was completed in February, 1992. Further work was conducted in 1993 and this revised document was completed in April 1994.

PURPOSE

To provide guidance to landscape professionals in selecting and maintaining plants based on their irrigation water needs.

INTENDED USE

The WUCOLS list is intended solely as a guide to help landscape professionals identify irrigation water needs of landscape species. It can be used either for the selection of species or to assist in developing irrigation schedules for existing landscapes. It is not intended to be used as a "**required**", "**mandatory**", "**approved**" or "**master**" list by local, regional, or statewide governments, government agencies, or water authorities for the selection of plant species. This list should not be used in part or in entirety to restrict species selection to only those species listed here.

In addition, the evaluations of irrigation water requirements presented here should not be considered absolute and are not intended to be used as such, i.e., the user is not "**required**" to use these evaluations. This is a guide to species water needs. If the user has reason to believe that an evaluation made for a species is not appropriate, then the species could be reclassified to reflect the user's assessment.

ACKNOWLEDGEMENTS

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GETTING STARTED

If you are using the Guide for the **FIRST TIME**, we suggest that you begin by reading **HOW THIS GUIDE WAS DEVELOPED** (page 6). This section contains important background information on why and how the Guide was created, as well as an overview of the species evaluation process. Both first time and experienced users should keep the following question in mind:

In order to be maintained in good condition, in the region you are considering and under the standard conditions outlined, does the species need HIGH, MODERATE, LOW or VERY LOW amounts of irrigation water?

The answer to this question is the focus of the WUCOLS Guide. To arrive at the answer, you will need to understand several essential terms. They are introduced in **SPECIES EVALUATIONS - KEY TO SYMBOLS** and then described in various sections such as:

What are VEGETATION Types?	Go to: VEGETATION TYPES
What are STANDARD CONDITIONS?	Go to: STANDARD CONDITIONS
What REGION should you choose?	Go to: WUCOLS REGIONS
What does HIGH, MODERATE LOW and VERY LOW mean?	Go to: CATEGORIES OF WATER NEEDS
How can you CALCULATE the right amount of irrigation water to apply?	Go to: HOW TO CALCULATE LANDSCAPE WATER NEEDS
Is there more you should know?	Go to: INVASIVE SPECIES and OTHER IMPORTANT INFORMATION
ABOUT	THE GUIDE

It is important that you understand these terms, as well as how the Guide was developed, to effectively use the Guide.

HOW THIS GUIDE WAS DEVELOPED

RATIONALE

Water conservation is an essential consideration in the design and management of California landscapes. Effective strategies that increase water use efficiency in landscapes need to be identified and implemented. One key strategy to increase efficiency is that of matching water supply to plant needs. By supplying only the amount of water needed to maintain landscape health and appearance, unnecessary applications that exceed plant needs can be avoided. To do so, however, requires some knowledge of species needs.

Although substantial information exists on the water needs of agricultural species and turfgrasses, there is little information on woody and herbaceous landscape species. More precisely, field studies have quantified irrigation requirements for six groundcover species (Pittenger, 1990) and three tree species (Hartin, 1991). Considering that over 1,200 tree, shrub, groundcover, vine, and perennial species are available from California nurseries, it is evident that over 99% of landscape species have not been evaluated for water needs. Were 20 or 30 more species studied in the next few years, still over 97% of the landscape plants used in California will not have been evaluated.

It is well recognized that substantial information of an observational nature exists regarding plant water needs. The water needs of olive and redbud, for instance, are known to be quite low compared to birch and dogwood. This information has been derived from many field observations and years of experience growing and maintaining these species. Considerable information exists for other species. It is acknowledged that objective field data is generally more useful information than subjective assessments. Nonetheless, some information regarding the 99+ percent of landscape species that have not been field tested is considered here to be better than no information. By collecting such information and using consistent evaluation methods, it was proposed that reasonable assessments of species water needs could be developed. These evaluations may then be used to provide some guidance to landscape planners and managers in selecting and maintaining species for water use efficiency. It was based on this rationale that the Water Use Classification of Landscape Species (WUCOLS) Project was initiated.

OBJECTIVES

- 1) To evaluate landscape species for irrigation water needs using "standard" methods and conditions. "Standard" meaning that the same evaluation methods were used for all species and plant site conditions were equivalent for all evaluations.
- 2) To compile the evaluations into a useful guide for plant selection.
- 3) To make the guide adaptable for computer use.

APPLICATIONS

- To assist landscape architects, designers, and planners in selecting plants for water efficient landscapes. Plants with similar needs can be grouped together in effective hydrozones. (A hydrozone is a portion of a landscaped area having plants with similar water needs that are served by one irrigation value, or set of values with the same schedule.)
- To assist landscape managers to evaluate water needs for existing plantings and to create irrigation schedules that match species needs.
- To provide options for landscape managers seeking to change species composition in order to reduce variation in water needs within plantings.
- To provide a basis for estimating water needs for newly planned landscapes.

IMPORTANT NOTE: Species selection is only one part of designing and maintaining water efficient landscapes. Information on soil physical and chemical properties, irrigation system performance, and microclimates is also needed. In addition, a plant's water requirement is not the only factor to consider in species selection. Plant shape, size at maturity, growth rate, and susceptibility to pests are a few of many other factors to consider.

METHOD

Subjective evaluations of irrigation water needs of landscape species were made using a standardized format. Evaluations were based on the experience and observations of project participants, as well as relevant research information. Standard conditions for each species to be evaluated were established by a coordinating committee, and the same evaluation process was used by each of six regional committees. Details of this process are outlined in the following sections and are presented in the order in which they were developed.

COORDINATING COMMITTEE

A statewide coordinating committee was established to develop standard conditions for

evaluations, identify appropriate water use categories, determine regions within the state which represent differing climatic conditions, and select appropriate members for regional evaluation teams. This committee consisted of six members. See **Project Participants** (page 2).

REGIONAL COMMITTEES

It was recognized that a single statewide committee would have difficulty evaluating species water needs in all six regions. Therefore, committees were established in each region consisting of from 5 to 9 members. Members were selected on the basis of their horticultural knowledge, familiarity with the region, and experience in the landscape industry. Attempts were made to include representatives of the various landscape professions: contractors, consultants, architects, nurserymen, park supervisors, irrigation specialists, and academics.

SPECIES LIST

A comprehensive species list was initially compiled from fifteen California wholesale growers and brokers catalogs. Over 900 species (trees, shrubs, groundcovers, vines and perennials) were included. The list was subsequently expanded by the regional committees and now includes over 1200 species.

PRELIMINARY EVALUATIONS

Current horticultural literature (see below) was used to research recommendations of species water needs. Species were assigned to preliminary categories of high, moderate and low water use.

Few authors use precise terminology when describing water use. Instead, general words that describe frequency of irrigations (periodic, monthly, etc.) or quantity of water applied (ample, generous, little) or soil and atmospheric conditions (moist, wet, dry) or ability to withstand periods of less than normal watering (drought tolerant, drought resistant) are used. Therefore, preliminary assignments of species to water requirement categories were simply based on an interpretation of these various terms and phrases.

The list was reviewed by the six regional committees and preliminary evaluations of water needs were changed as determined by committee consensus.

SOURCES OF INFORMATION FOR PRELIMINARY EVALUATIONS

- Success List of Water Conserving Plants, Saratoga Horticultural Foundation, San Martin, Ca., 1983

- Feldman, F., and Fogle, C. Ed., Sunset Waterwise Gardening, Lane Publishing Company, Menlo Park, Ca., 1989.
- Sunset Book and Magazine Editors, Sunset Western Garden Book, Menlo Park, Ca., 1990.
- Perry, R., Trees and Shrubs for Dry California Landscapes, Land Design Publishing, San Dimas, Ca., 1987.
- Coate, B., Water-Conserving Plants and Landscape of the Bay Area, East Bay Municipal Utility District, Alamo, Ca., 1990.
- Relative Water Requirements of Commonly Used Plants, Sacramento Water Use Ordinance.
- Pittenger, D. R., Can You Save Water With Ground Covers?, Environmental Horticulture Newsletter, 1990.
- Beutel, J., Saving Water in Home Orchards, - U.C. Leaflet 2975, 1977.
- Nursery catalogs (1990) with water designations: Boething, S & S Seeds, Hines, El Modeno and Bordiers.

REGIONAL COMMITTEE MEETINGS

In 1991, regional committees met for a two day period to review the project rationale, the evaluation process and standard conditions. Most of the time was devoted to evaluating each species on the preliminary list and making water needs assignments. In 1993, committees met for another two-day period to reevaluate certain species and to evaluate additional species.

MAKING WATER NEEDS ASSIGNMENTS

Each species was assigned to one water requirement category, as determined by consensus of each regional committee. Standard conditions applied for all evaluations. Essentially, the following question was being addressed:

"In order to be maintained in good condition in the region considered and under the standard conditions outlined, does the species need high, moderate, low, or very low amounts of irrigation water?"

Starting with this question, committee members shared their experiences in growing and maintaining the particular species and then made a decision to assign it to one category. When disagreements occurred, the higher water requirement category was assigned. For example, if some evaluators thought the species required a "moderate" ranking, while others thought "low" was appropriate, then the "moderate" assignment was used.

In cases where the committee did not know the species, or did not have sufficient experience growing it, then no water requirement assignment was made and a question mark (?) was entered for the species. When the species was simply not appropriate for the region (i.e., it doesn't grow there, or it is known not to perform well) then no evaluation

was made and a slash (/) was entered for the species. For example, Ocotillo is not grown in the Central Valley and therefore was assigned a (/) for the region.

The "very low" category was assigned to species that do not need irrigation during the summer months during normal rainfall years. When below normal rainfall occurs, then some irrigation may be needed.

SPECIES EVALUATIONS

KEY TO SYMBOLS*

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
☹ T	Ailanthus altissima	tree of heaven	VL	VL	L	L	L	L
S	Brugmansia spp.	angel's trumpet	M	/	M	H	/	/

*This KEY provides essential information for using the WUCOLS Species Evaluation List. Two plant species are shown above as examples of how entries are made. All abbreviations and symbols used on the list are defined in the boxes. Go to the Guide for details on each category.

VEGETATION TYPES
T....Tree
S....Shrub
V....Vine
Gc...Groundcover
P....Perennial (includes ferns, grasses & bulbs)

WUCOLS REGIONS
1...No. Central Coastal
2...Central Valley
3...South Coastal
4...South Inland Valley
5...High & Intermediate Desert
6...Low Desert

WATER USE CLASSIFICATION OF LANDSCAPE SPECIES (WUCOLS) - Revised 1994

INVASIVE SPECIES	
⊕	Greater Statewide Concern
⊖	Lesser Statewide Concern

CATEGORIES OF WATER NEEDS	
H.	HIGH
M.	Moderate
L.	Low
VL.	Very Low
/.	Inappropriate
?	Unknown

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
S	Abelia 'Edward Goucher'	pink abelia	M	M	M	M	/	M
S	Abelia floribunda	Mexican abelia	M	M	M	M	/	/
S	Abelia X grandiflora	glossy abelia	L	L	M	M	/	M
Gc	Abelia grandiflora prostrata	prostrate glossy abelia	M	M	M	M	/	/
S	Abelia 'Sherwoodii'	Sherwood dwarf abelia	M	M	M	M	/	/
T	Abies spp.	fir	M	/	M	M	/	/
T	Abies pinsapo	Spanish fir	L	/	L	/	/	/
S	Abutilon hybridum	flowering maple	M	H	H	H	/	/
S T	Acacia abyssinica	Abyssinian acacia	/	?	/	?	/	L
T	Acacia aneura	mulga	/	?	?	?	/	L
⊖ T	Acacia baileyana	Bailey acacia	L	L	L	L	/	/
T S	Acacia berlandieri	guajillo	?	?	?	M	/	L
T	Acacia cognata (A.subporosa)	bower wattle	L	L	M	M	/	/
T S	Acacia constricta	whitethorn acacia	?	L	L	L	L	L
T S	Acacia craspedocarpa	leatherleaf cacia	?	?	?	?	L	L
T	Acacia cultriformis	knife acacia	L	L	L	L	/	/
⊖ T	Acacia dealbata	silver wattle	VL	L	L	L	/	/
⊖ T	Acacia decurrens	green wattle	VL	L	L	L	/	/
T	Acacia farnesiana	sweet acacia	?	?	L	L	/	L
T S	Acacia greggii	catclaw acacia	L	L	L	L	L	L
⊖ T S	Acacia longifolia	Sydney golden wattle	L	L	L	L	/	/
⊖ T	Acacia melanoxylon	blackwood acacia	VL	L	L	L	/	/
T	Acacia pendula	weeping acacia	L	L	M	M	/	L
T	Acacia pennatula	acacia (pennatula)	?	?	VL	?	L	L
S Gc	Acacia redolens	prostrate acacia	L	L	L	L	L	L
T	Acacia salicina	willow acacia	?	?	L	M	/	M
T S	Acacia saligna	blue leaf wattle	L	L	L	L	/	M

T	<i>Acacia schaffneri</i>	twisted acacia	?	?	?	?	/	L
T	<i>Acacia smallii</i>	desert sweet acacia	?	?	VL	L	/	L
T	<i>Acacia stenophylla</i>	eumong/shoestring acacia	?	L	L	L	/	L
T	<i>Acacia willardiana</i>	palo blanco	/	?	?	?	/	L
P	<i>Acanthus mollis</i>	bear's breech	M	M	M	M	/	M
T	<i>Acer buergeranum</i>	trident maple	M	M	M	/	/	/
T S	<i>Acer circinatum</i>	vine maple	M	H	/	/	/	/
T	<i>Acer griseum</i>	paperbark maple	M	M	?	?	?	?
T	<i>Acer macrophyllum</i>	big leaf maple	M	H	M	H	/	/

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
T	<i>Acer negundo</i>	box elder	M	M	M	M	/	/
T	<i>Acer oblongum</i>	evergreen maple (oblongum)	M	/	M	M	/	/
T	<i>Acer palmatum</i>	Japanese maple	M	M	H	H	/	/
T	<i>Acer paxii</i>	evergreen maple (paxii)	M	M	M	M	/	/
T	<i>Acer platanoides</i>	Norway maple	M	M	/	H	/	/
T	<i>Acer rubrum</i>	scarlet red maple	M	H	H	H	/	/
T	<i>Acer saccharinum</i>	silver maple	M	M	/	M	/	/
T	<i>Acer saccharum</i>	sugar maple	M	/	/	/	/	/
T	<i>Acer truncatum</i>	Chinese maple	M	M	/	H	/	/
P	<i>Achillea ageratifolia</i>	Greek yarrow	L	M	M	M	M	M
P	<i>Achillea filipendulina</i>	fern leaf yarrow	L	L	L	L	M	M
⊗ P	<i>Achillea millefolium</i>	common yarrow	L	L	L	L	M	M
Gc P	<i>Achillea tomentosa</i>	woolly yarrow	L	L	L	L	M	M
P	<i>Aconitum napellus</i>	garden monkshood	M	/	/	/	/	/
P	<i>Acorus gramineus</i>	sweet flag	H	H	H	H	H	H
V	<i>Actinidia deliciosa</i>	kiwi	H	H	H	H	/	/
S	<i>Adenostoma fasciculatum</i>	chamise	VL	VL	VL	VL	/	/
T S	<i>Adenostoma sparsifolium</i>	red shanks/ribbonwood	VL	?	VL	VL	/	/
P	<i>Adiantum</i> spp.	maidenhair fern	H	H	H	H	H	H
S P	<i>Aeonium</i> spp.	Canary Island rose	L	/	L	L	/	L
T	<i>Aesculus californica</i>	California buckeye	VL	VL	VL	L	/	/
T	<i>Aesculus carnea</i>	red horsechestnut	M	M	M	/	/	/
P	<i>Agapanthus africanus</i>	lily-of-the-Nile	M	M	M	M	/	M
T	<i>Agathis australis</i>	Australian agathis/ kauri	M	/	M	/	/	/
T	<i>Agathis robusta</i>	Queensland kauri	M	/	M	H	/	/
S P	<i>Agave</i> spp.	agave	L	L	L	L	/	L
T	<i>Agonis flexuosa</i>	peppermint tree	L	/	L	M	/	/
⊗ T	<i>Ailanthus altissima</i>	tree of heaven	VL	VL	L	L	L	L

	Gc	<i>Ajuga reptans</i>	carpet bugle	M	M	M	H	H	H
	V	<i>Akebia quinata</i>	fiveleaf akebia	M	M	M	M	/	/
⊗	T	<i>Albezia distachya</i>	plume albizia	L	/	L	/	/	/
	T	<i>Albizia julibrissin</i>	silk tree	L	L	M	M	M	M
	T	<i>Alectryon excelsus</i>	alectryon/titoki	M	/	M	/	/	/
	V	<i>Allamanda cathartica</i>	golden trumpet	/	/	M	/	/	/
	T	<i>Alnus cordata</i>	Italian alder	M	M	M	M	/	/
	T	<i>Alnus glutinosa</i>	black alder	M	M	M	H	/	/

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
T	<i>Alnus oregona</i>	Oregon alder	H	H	/	/	/	/
T	<i>Alnus rhombifolia</i>	white alder	H	H	H	H	H	/
P	<i>Alocasia</i> spp.	elephant's ear	H	H	H	H	/	/
T S	<i>Aloe</i> spp.	aloe	L	L	L	L	/	L
P	<i>Alopecurus pratensis</i> 'Aureus'	golden foxtail	?	?	M	?	?	?
S	<i>Aloysia machrostachya</i>	aloyisia	?	?	?	?	L	L
S P	<i>Alpinia zerumbet</i>	shell ginger	H	/	H	H	/	H
P	<i>Alstroemeria</i> spp.	Peruvian lily	M	M	M	M	?	M
S	<i>Alyogyne hakeifolia</i>	red centered hibiscus	/	/	L	L	/	/
S	<i>Alyogyne huegelii</i>	blue hibiscus	L	L	L	L	/	L
P	<i>Amaryllis belladonna</i>	naked lady	VL	VL	VL	L	L	L
S	<i>Ambrosia dumosa</i>	white bursage	?	?	/	/	L	L
V	<i>Ampelopsis brevipedunculata</i>	blueberry creeper	M	M	/	M	M	M
P	<i>Anagallis monellii</i>	pimpernel	?	?	M	/	/	/
S Gc	<i>Andromeda polifolia</i>	bog rosemary	H	H	/	/	/	/
P	<i>Anemone X hybrida</i>	Japanese anemone	M	M	M	M	M	M
V	<i>Anemopaegma chamberlaynii</i>	yellow trumpet vine	?	?	M	M	/	/
T	<i>Angophora costata</i>	gum myrtle	L	/	L	M	/	/
P	<i>Anigozanthos flavidus</i>	kangaroo paw	M	M	M	M	/	M
S	<i>Anisacanthus</i> spp.	desert honeysuckle	?	?	L	L	L	L
S	<i>Anisodontea X hypomandarum</i>	South African mallow	M	M	M	M	/	M
S	<i>Anisodontea scabrosa</i>	false mallow	M	M	M	M	/	M
T	<i>Annona cherimola</i>	cherimoya	M	/	M	/	/	/
Gc V	<i>Antigonon leptopus</i>	coral vine	M	/	M	M	/	M
Gc	<i>Aptenia cordifolia</i>	ice plant (Aptenia)	L	L	L	L	/	H
⊗ ⊗	GC	<i>Aptenia</i> 'Red Apple'	L	L	L	L	/	H
P	<i>Aquilegia</i> spp.	columbine	L	L	M	M	M	M
P	<i>Arabis</i> spp.	rockcress	L	M	M	?	?	?
T	<i>Araucaria araucana</i>	monkey puzzle tree	L	M	/	M	/	/

T	<i>Araucaria bidwillii</i>	bunya-bunya	L	M	M	M	/	/
T	<i>Araucaria heterophylla</i>	Norfolk Island pine	M	M	M	/	/	/
T	<i>Arbutus 'Marina'</i>	Marina arbutus	M	M	M	M	M	M
T	<i>Arbutus menziesii</i>	madrone	VL	VL	/	/	/	/
T S	<i>Arbutus unedo</i>	strawberry tree	L	L	L	L	M	M
T	<i>Archontophoenix cunninghamiana</i>	king palm	M	M	M	M	/	/
S Gc	<i>Arctostaphylos</i> cultivars	manzanita cultivars	L	L	L	L	/	/

	TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
				1	2	3	4	5	6
	S Gc	<i>Arctostaphylos</i> spp.	manzanita	VL	L	L	L	/	/
⊗	Gc P	<i>Arctotheca calendula</i>	cape weed	M	M	M	M	/	M
	P	<i>Arctotis</i> hybrids	African daisy	M	M	L	L	/	M
	Gc	<i>Ardisia japonica</i>	Japanese ardesia, marlberry	M	/	H	/	/	/
	T	<i>Arecastrum romanzoffianum</i>	queen palm	L	M	M	M	M	M
		<i>Arenaria</i> spp. (See <i>Sagina</i>)	Irish, Scotch moss						
	P	<i>Arenaria montana</i>	sandwort	?	M	M	M	?	?
	P	<i>Aristea ecklonii</i>	little Tyler	?	?	M	M	/	/
	V	<i>Aristolochia californica</i>	California Dutchman's pipe	L	L	?	M	/	/
	V	<i>Aristolochia durior</i>	Dutchman's pipe	M	M	?	M	/	/
	V	<i>Aristolochia elegans</i>	calico flower	/	/	M	M	/	/
	Gc P	<i>Armeria maritima</i>	sea pink	M	M	M	M	/	M
	P	<i>Arrhenatherum eliatum bulbosum</i> 'Vgta.'	bulb oat grass	?	?	M	?	M	M
	S Gc	<i>Artemisia</i> spp. (shrubby)	sagebrush	VL	L	L	L	L	L
	Gc P	<i>Artemisia</i> spp. (herbaceous)	tarragon/angel's hair etc.	L	L	L	L	M	M
	P	<i>Arthropodium cirrhatum</i>	star lily	?	?	M	?	/	/
⊗ ⊗	P	<i>Arundo donax</i>	giant reed	M	M	M	M	M	M
	S	<i>Arundinaria</i> spp.	bamboo (<i>Arundinaria</i>)	L	L	M	M	/	M
	Gc P	<i>Asarum caudatum</i>	wild ginger	M	M	H	?	/	/
	P	<i>Asparagus</i> spp.	ornamental asparagus	M	M	M	M	/	M
	P	<i>Aspidistra elatior</i>	cast iron plant	L	L	M	M	/	M
	P	<i>Asplenium bulbiferum</i>	mother fern	H	H	H	H	/	/
	P	<i>Asplenium nidus</i>	bird's nest fern	H	H	H	/	/	/
	P	<i>Astelia nervosa chathamica</i>	silver spear	?	?	M	?	?	?
	P	<i>Aster</i> spp.	aster	M	M	M	M	M	M
	P	<i>Asteriscus maritimus</i>	gold coin, Canary Island daisy	M	M	L	M	/	/
	P	<i>Asteriscus sericeus</i>	asteriscus	L	?	VL	/	/	/
	P	<i>Astilbe</i> hybrids	false spirea	H	H	/	/	/	/
	P	<i>Athyrium filix-femina</i>	lady fern	M	H	H	H	H	/

⊕	S Gc	Atriplex spp.	saltbush	VL	VL	VL	VL	/	VL
	S	Aucuba japonica	Japanese aucuba	M	M	M	M	/	M
	S	Azara dentata	orono	M	/	H	/	M	/
	S	Azara microphylla	box leaf azara	M	/	H	/	M	/
	P	Babiana stricta hybrids	baboon flower	L	L	L	?	/	/
	S	Baccharis pilularis consanguinea	coyote brush	L	L	L	L	/	/
	S Gc	Baccharis pilularis cvs.	dwarf coyote brush	L	L	L	L	/	/

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
S	Baccharis sarothroides	desert broom	VL	L	VL	L	L	L
S Gc	Baccharis 'Centennial'	bentennial baccharis	VL	L	VL	L	L	L
P	Baileya multiradiata	desert marigold	?	?	?	L	L	L
S	Bambusa spp.	bamboo (Bambusa)	L	L	M	M	M	M
T S	Banksia integrifolia	tree banksia	M	/	M	M	/	M
T S	Banksia speciosa	showy banksia	M	/	M	?	/	M
S	Barleria obtusa	barleria	?	?	M	M	/	/
T	Bauhinia blakeana	Hong Kong orchid tree	/	/	M	M	/	M
V	Bauhinia corymbosa	phanera	/	/	M	?	/	M
T	Bauhinia forficata	Brazilian butterfly tree	/	/	M	M	/	/
T S	Bauhinia punctata	red bauhinia	/	/	M	M	/	/
T	Bauhinia variegata	purple orchid tree	/	/	M	M	/	M
T S	Beaucarnea recurvata	bottle palm	/	/	L	L	/	L
V	Beaumontia grandiflora	Easter lily vine	M	/	M	H	/	/
P	Begonia 'Richmondensis'	Richmond begonia	M	M	M	M	/	M
P	Begonia semperflorens	begonia	M	M	M	M	/	M
Gc	Berberis irwinii	barberry	M	M	/	/	M	M
S GC	Berberis spp.	barberry	L	L	M	M	M	M
P	Bergenia cordifolia	heartleaf bergenia	M	M	M	H	H	H
P	Bergenia crassifolia	winter blooming bergenia	M	M	M	H	H	H
P	Berlandiera lyrata	chocolate scented daisy	?	M	?	?	M	M
P	Beschorneria yuccoides	Mexican lily	/	/	M	?	?	?
T	Betula fontinalis (see b. occidentalis)							
T	Betula jacquemontii	white barked Himalayan birch	H	H	/	/	/	/
T	Betula nigra	river/red birch	H	H	H	H	/	/
T	Betula occidentalis (fontinalis)	water birch	H	/	H	H	/	/
T	Betula pendula	European white birch	H	H	H	H	/	/
P	Billbergia spp.	queen's tears etc.	M	/	M	M	/	M
T	Bischofia javanica	toog	/	/	M	?	/	/
P	Blechnum occidentale	hammock fern	H	?	H	?	?	?

P	Bletilla striata	Chinese ground orchid	M	M	M	?	?	?
S	Boronia spp.	boronia	M	/	M	/	/	/
S Gc V	Bougainvillea spp.	bougainvillea	L	L	LL	L	/	M
T	Brachychiton acerifolius	flame tree	L	/	L	M	/	/
T	Brachychiton discolor	Queensland lace bark	M	/	L	M	/	/
T	Brachychiton X hybridus	hybrid brachychiton	M	/	M	M	/	M

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
T	Brachychiton populneus	bottle tree	L	M	L	L	M	M
T	Brachychiton rupestris	Queensland bottle tree	/	/	L	L	/	?
P	Brachycome multifida	Swan River daisy	M	M	M	M	M	M
T	Brahea armata	Mexican blue palm	L	/	L	L	L	L
T	Brahea edulis	Guadelupe palm	L	/	L	L	L	L
S	Brassaia actinophylla	Queensland umbrella tree	/	/	M	/	/	M
S	Breynia disticha	Hawaiian snow bush	?	?	H	H	/	/
⊗ P	Briza media	quaking grass	L	?	M	M	M	M
P	Brodiaea spp.	brodiaea	VL	VL	L	L	/	/
S	Brugmansia spp.	angel's trumpet	M	/	M	H	/	/
S	Brunfelsia pauciflora	yesterday today and tomorrow	M	M	M	H	/	H
P	Brunnera macrophylla	Siberian bugloss	H	H	H	?	?	?
S	Buddleia alternifolia	fountain butterfly bush	L	L	M	/	M	M
S	Buddleia davidii	butterfly bush	L	L	M	M	M	M
S	Buddleia marrubiifolia	woolly butterfly bush	?	?	?	L	/	L
P	Bulbine frutescens	stalked bulbine	L	?	L	L	/	L
T	Bursera hindsiana	bursera	?	?	/	/	/	M
T	Butia capitata	pindo palm	L	L	L	L	L	L
S	Buxus microphylla japonica	Japanese boxwood	M	M	M	M	M	M
S	Buxus sempervirens	English boxwood	M	M	M	/	M	M
S	Caesalpinea cacalaco	cascalote	?	?	?	?	/	L
S	Caesalpinea gilliesii	desert bird of paradise	L	L	L	L	M	M
S	Caesalpinea mexicana	Mexican bird of paradise	?	/	?	L	/	L
S	Caesalpinea pulcherrima	dwarf poinciana	L	L	M	M	/	M
P	Calamagrostis spp.	feather reed	?	?	M	M	?	?
S	Calliandra californica	Baja fairy duster	/	/	VL	L	/	L
S	Calliandra eriophylla	fairy duster	/	/	VL	VL	/	L
S	Calliandra haematocephala	pink powder puff	/	/	M	M	/	H
S	Calliandra tweedii	trinidad flame bush	/	/	M	M	/	M
S	Callicarpa dichotoma	lavender beautyberry	M	?	M	?	?	?
S	Callicarpa japonica	beauty berry	/	M	/	M	/	/

T S	Callistemon citrinus	bottle brush	L	L	L	L	/	M
T S	Callistemon pinifolius	pine-leaved bottlebrush	?	?	L	?	?	?
T S	Callistemon salignus	pink tips/white bottlebrush	L	M	M	?	/	?
T S	Callistemon speciosus	Albany bottlebrush	?	?	M	?	/	M
T S	Callistemon viminalis	weeping bottle brush	L	L	M	M	/	M

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
S	Calluna vulgaris	Scotch heather	M	M	/	/	/	/
T	Calocedrus decurrens	incense cedar	M	M	M	M	M	/
S	Calocephalus brownii	cushion bush	L	/	L	L	/	L
T	Calodendrum capense	cape chestnut	L	/	M	M	/	/
S	Calothamnus quadrifidus	net bush	?	?	M	?	/	?
S	Calycanthus occidentalis	western spice bush	L	M	M	M	/	/
Gc	Calyophus hartwegii	Sierra sundrop	?	?	?	?	?	M
S	Camellia japonica	camellia	M	M	M	H	/	H
S	Camellia sasanqua	sasanqua camellia	M	M	M	H	/	H
Gc	Campanula poscharskyana	Serbian bell flower	M	M	M	M	/	M
P	Campanula spp.	bell flower	M	M	M	M	/	M
V	Campsis spp.	trumpet creeper	L	L	M	M	M	M
P	Canna spp.	canna	M	M	M	H	M	M
S	Capparis spinosa	caper bush	L	/	L	?	?	?
P	Carex (garden spp.)	sedge	M	M	M	M	/	M
Gc	Carissa macrocarpa (prost.cvs.)	Natal plum	L	/	M	M	/	M
S	Carissa spp.	Natal plum	L	/	M	M	/	M
S	Carnegiea gigantea	saguaro	/	/	VL	L	/	L
S	Carpenteria californica	bush anemone	L	L	L	M	/	/
T	Carpinus betulus 'Fastigiata'	European hornbeam	L	M	/	/	/	/
⊗ ⊗ Gc	Carpobrotus spp.	ice plant (Carpobrotus)	L	M	VL	L	/	L
T	Carya illinoensis	pecan	L	M	M	M	M	M
S P	Caryopteris X clandonensis	blue mist	M	M	M	M	/	/
T	Caryota mitis	clustered fishtail palm	/	/	M	/	/	/
T S	Caryota urens	fishtail wine palm	H	/	M	/	/	/
T S	Caryota urens	hardy fishtail wine palm	H	/	M	H	/	/
T	Casimiroa edulis	white sapote	M	/	M	M	/	/
S	Cassia artemisioides	feathery cassia	L	L	L	L	L	L
S	Cassia bicapsularis (C.candolleana)	New Zealand cassia	?	L	L	/	/	L
S	Cassia eremophila (C.nemophila)	desert cassia	/	?	L	L	L	L
T	Cassia leptophylla	gold medallion tree	L	L	M	M	/	/
S	Cassia odorata	cassia (odorata)	?	?	L	L	/	L

S	<i>Cassia phyllodenia</i>	silver cassia	? ? L L L L
T	<i>Cassia spectabilis</i> (C.excelso)	crown of gold tree	L / M M / /
S	<i>Cassia sturtii</i>	Sturt's cassia	/ / L / / L
S	<i>Cassia tomentosa</i>	wooly senna	VL / L ? / M

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
S	<i>Cassia wizlizeni</i>	shrubby cassia	? ? L ? / L					
T	<i>Castanospermum australe</i>	Moreton Bay chestnut	L / M M / /					
T	<i>Casuarina cunninghamiana</i>	river she-oak	L L L L M M					
T	<i>Casuarina stricta</i>	coast beefwood	L L L L M M					
T	<i>Catalpa speciosa</i>	western catalpa	L M M M M M					
P	<i>Catananche caerulea</i>	cupid's dart	? L M ? ? ?					
P	<i>Catharanthus roseus</i>	Madagascar periwinkle	M M M M M M					
S Gc	<i>Ceanothus</i> spp.	California lilac	VL L VL L / /					
S Gc	<i>Ceanothus</i> cultivars	ceanothus	L L L L / /					
T	<i>Cedrus atlantica</i>	Atlas cedar	M M L M M M					
T	<i>Cedrus deodora</i>	deodar cedar	L M L M M M					
T	<i>Celtis australis</i>	European hackberry	L M / / M M					
T	<i>Celtis occidentalis</i>	common Hackberry	L L / M M M					
T	<i>Celtis reticulata</i>	western hackberry	L / / / L L					
T	<i>Celtis sinensis</i>	Chinese hackberry	L M / M M M					
P	<i>Centaurea cineraria</i>	dusty miller (cineraria)	L L M M / M					
P	<i>Centaurea gymnocarpa</i>	velvet centaurea	L L M M / M					
⊗ P	<i>Centranthus ruber</i>	red valerian	VL VL L L / M					
S	<i>Cephalocereus</i> spp.	old man cactus	/ / VL L L L					
Gc	<i>Cephalophyllum</i> spp.	ice plant (Cephalophyllum)	L L L L / L					
Gc	<i>Cerastium tomentosum</i>	snow in summer	M M M M M M					
T	<i>Ceratonia siliqua</i>	carob	L L L L / L					
S	<i>Ceratostigma abyssinica</i>	African plumbago	L / M M M M					
S	<i>Ceratostigma griffithii</i>	Burmese plumbago	L M M M M M					
Gc	<i>Ceratostigma plumbaginoides</i>	dwarf plumbago	L M M M M M					
T	<i>Cercidium floridum</i>	blue palo verde	VL VL VL L / L					
T	<i>Cercidium microphyllum</i>	little leaf palo verde	/ VL VL L / L					
T	<i>Cercidium praecox</i>	Sonoran palo verde	/ L VL L / L					
T	<i>Cercidium</i> 'Sonorae'	Sonora cercidium	? ? ? ? / L					
T	<i>Cercis canadensis</i>	eastern redbud	M M M M / /					
T S	<i>Cercis occidentalis</i>	western redbud	VL VL L L / /					
T	<i>Cercis reniformis</i>	southwest redbud	L L ? ? ? ?					

S	<i>Cercocarpus betuloides</i>	mountain ironwood	VL	VL	VL	VL	VL	/
S	<i>Cercocarpus minutiflorus</i>	San Diego mountain mahogany	L	?	VL	VL	/	/
S	<i>Cereus peruvianus</i>	Peruvian apple cactus	?	?	L	L	/	L
S	<i>Cestrum elegans</i>	red cestrum	M	/	M	M	/	M

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
S	<i>Cestrum nocturnum</i>	night jessamine	M	M	M	M	/	M
S	<i>Chaenomeles cvs.</i>	flowering quince	L	L	M	M	M	M
T S	<i>Chamaecyparis spp.</i>	false cypress	M	M	/	/	/	/
S P	<i>Chamaedorea spp.</i>	chamaedorea	/	/	H	H	/	H
Gc P	<i>Chamaemelum nobile</i>	chamomile	L	M	M	M	M	M
T S	<i>Chamaerops humilis</i>	Mediterranean fan palm	L	L	M	M	M	M
S	<i>Chamaelucium uncinatum</i>	Geraldton wax flower	L	L	L	M	/	M
P	<i>Chasmanthium latifolium</i>	sea oats	M	M	M	M	M	M
P	<i>Cheiranthus cheiri</i>	wall flower	M	M	M	M	M	M
T	<i>Chilopsis linearis</i>	desert willow	VL	VL	VL	L	M	M
T	<i>Chionanthus retusus</i>	Chinese fringe tree	M	M	M	M	/	/
T	<i>Chitalpa tashkentensis</i>	chitalpa	L	M	L	L	L	M
S	<i>Choisya ternata</i>	Mexican orange	M	M	M	M	/	M
P	<i>Chondropetalum tectorum</i>	cape reed	?	?	M	?	?	?
T	<i>Chorisia insignis</i>	white floss silk tree	M	/	M	L	/	M
T	<i>Chorisia speciosa</i>	floss silk tree	L	/	L	L	/	M
P	<i>Chrysanthemum frutescens</i>	marguerite daisy	M	M	M	M	/	M
P	<i>Chrysanthemum maximum</i>	Shasta daisy	M	M	M	M	M	M
P	<i>Chrysanthemum parthenium</i>	feverfew	L	L	M	M	M	M
P	<i>Cibotium glaucum</i>	Hawaiian tree fern	?	/	H	H	/	/
T	<i>Cinnamomum camphora</i>	camphor tree	MMMM	M	MM	M	/	M
V	<i>Cissus antarctica</i>	kangaroo treebine	L	M	M	M	/	M
V	<i>Cissus rhombifolia</i>	grape ivy	/	M	M	M	/	M
S Gc	<i>Cistus spp.</i>	rockrose	L	L	L	L	L	L
T S	<i>Citrus spp.</i>	orange, lemon etc.	M	M	M	M	/	M
V	<i>Clematis armandii</i>	evergreen clematis	M	M	M	M	M	M
V	<i>Clematis hybrids</i>	deciduous clematis	M	M	H	H	M	M
V	<i>Clematis lasiantha</i>	pipestem clematis	L	L	VL	L	/	/
V	<i>Clematis ligusticifolia</i>	western virgin's bower	M	?	?	L	/	/
V	<i>Clematis pauciflora</i>	small flowered clematis	?	?	VL	L	?	?
S	<i>Cleome isomeris</i>	bladder Pod	VL	VL	VL	VL	L	L
P	<i>Clerodendrum bungei</i>	cashmere bouquet	L	M	M	?	?	?
S	<i>Clerodendrum ugandense</i>	glory bower	/	?	M	M	/	M

P	Clivia miniata	kaffir lily	M	M	L	M	/	M
V	Clytostoma callistigioides	violet trumpet vine	M	M	M	M	/	M
T S	Cocculus laurifolius	laurel leaf cocculus	M	M	M	M	/	M

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
S	Coleonema album	white breath of heaven	M	M	M	M	/	/
S	Coleonema pulchrum	breath of heaven	M	M	M	M	/	/
S T	Comarostaphylis diversifolia	summer holly	VL	L	VL	L	/	/
V	Combretum fruticosum	combretum	/	/	M	M	/	/
S	Convolvulus cneorum	bush morning glory	LLLLL	L	L	L	L	L
Gc P	Convolvulus mauritanicus	ground morning glory	L	L	L	L	M	M
S Gc	Coprosma kirkii	creeping coprosma	L	L	M	M	/	/
S Gc	Coprosma pumila 'Verde Vista'	verde vista coprosma	L	L	M	M	/	/
⊗	S	Coprosma repens	M	M	M	M	/	/
T S	Cordia boissieri	Texas olive	?	?	?	L	L	L
S	Cordia parvifolia	little leaf cordia	?	?	?	L	L	L
⊗	T	Cordyline australis	L	M	L	M	M	M
S	Cordyline stricta	palm lily	/	M	M	M	/	M
P	Coreopsis auriculata 'Nana'	dwarf coreopsis	L	L	L	L	M	M
P	Coreopsis lanceolata	coreopsis	L	L	L	L	M	M
P	Coreopsis verticillata cvs.	threadleaf coreopsis	L	L	L	L	M	M
P	Corethrogyne californica	black bush	?	?	/	/	VL	/
T	Cornus florida	eastern dogwood	H	H	H	/	/	/
T	Cornus nuttallii	western dogwood	M	M	/	M	/	/
S	Cornus stolonifera	redtwig dogwood	H	H	/	H	/	/
S	Corokia cotoneaster	wire-netting bush	M	M	M	M	M	M
S	Correa spp.	Australian fuchsia	L	L	L	L	/	M
⊗ ⊗	S	Cortaderia sellowana cvs.	VL	L	L	L	L	L
T S	Corylus maxima	filbert	L	/	/	/	/	/
S	Corylus avellanea contorta	Harry Lauder's walking stick	M	M	/	/	/	/
S	Corylus cornuta californica	western hazelnut	L	?	/	/	/	/
T	Corynocarpus laevigata	New Zealand laurel	M	/	H	/	/	/
T S	Cotinus coggygria	smoke tree	L	L	L	L	L	/
⊗ ⊗	S	Cotoneaster spp. (shrubs)	L	L	L	M	M	M
⊗ ⊗	Gc	Cotoneaster spp. (ground covers)	M	M	M	M	M	M
P	Cotula lineariloba	silver button plant	?	?	M	?	?	?
S P	Cotyledon spp.	cotyledon	L	L	L	L	/	L
S	Coursetia axillaris	baby bonnets	?	?	?	?	?	L
S	Cowania mexicana	cliff rose	L	?	/	L	L	L

	S P	Crassula spp.	crassula	L	L	L	L	/	L
⊗	T	Crataegus spp.	hawthorne	M	M	/	M	M	/

	TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
				1	2	3	4	5	6
	T	Crinodendron patagua	lily-of-the-valley tree	M	/	M	?	/	/
	P	Crinum spp.	crinum lily, spider lily	M	?	M	M	?	M
	P	Crocrosmia hybrids (Tritonia)	montbrieta	L	L	L	L	/	L
	S	Crotalaria agatiflora	canary-bird bush	L	/	M	M	/	H
	T S	Cryptomeria japonica	Japanese cryptomeria	M	H	H	H	/	/
	T	Cupaniopsis anacardioides	carrotwood	M	/	M	M	/	/
	P	Cuphea hyssophyla	false heather	M	M	M	M	/	/
	P	Cuphea ignea	cigar plant	M	M	M	M	/	/
	P Gc	Cuphea llavea	bat-faced cuphea	?	?	?	?	/	M
	S P	Cuphea micropetala	cuphea (micropetala)	?	?	M	?	/	?
	T	X Cupressocyparis leylandii	Leyland cypress	M	M	M	/	M	M
	T	Cupressus arizonica var.glabra	smooth Arizona cypress	VL	VL	VL	L	L	L
	T	Cupressus guadalupensis forbesii	tecate cypress	L	L	VL	VL	/	/
⊗	T	Cupressus macrocarpa	Monterey cypress	M	M	M	/	/	/
	T	Cupressus sempervirens	Italian cypress	L	L	L	L	M	M
	T	Cussonia paniculata	little cabbage tree	/	/	M	?	/	?
	S P	Cyathea cooperii	Australian tree fern	H	H	H	H	/	/
	S	Cycas revoluta	sago palm	M	M	M	M	M	M
	P	Cyclamen hederifolium	cyclamen	L	L	M	?	/	M
	P	Cyclamen persicum hybrids	florists' cyclamen	M	M	M	M	/	M
	Gc P	Cymbalaria muralis	Kenilworth ivy	M	M	H	H	/	/
	P	Cyperus alternifolius	umbrella Plant	H	H	H	H	H	H
	P	Cyrtonium falcatum	holly fern	M	M	H	M	/	M
	Gc	Cytissus kewensis	Kew broom	M	M	/	/	M	/
⊗ ⊗	S	Cytisus spp.	broom (Cytisus)	L	L	/	M	/	/
	S	Daboecia cantabrica	Irish heath	M	?	?	?	/	/
	S	Dahlia imperialis	tree dahlia	M	M	M	M	/	?
	P	Dahlia spp.	dahlia	M	M	M	H	H	H
	T	Dalbergia sissoo	sissoo	/	/	/	/	/	M
	S	Dalea bicolor	dalea (bicolor)	/	/	L	L	/	M
	Gc	Dalea capitata	dalea (capitata)	/	/	?	?	M	M
	S	Dalea frutescens	black dalea	/	/	M	/	M	M
	Gc	Dalea greggii	trailing indigo bush	?	/	L	L	L	L
	S	Dalea lutea	dalea (lutea)	/	/	/	?	M	M
	Gc	Dalea orcutii	Baja indigo bush	/	/	L	L	/	L

S Dalea pulchra indigo/pea bush / / M / M M

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
T	Dalea spinosa	smoke tree	/	L	/	L	L	L
S	Dalea versicolor	dalea (versicolor)	/	/	M	/	M	M
S	Daphne odora	winter daphne	M	M	/	/	M	M
S	Dasyliion spp.	desert spoon	?	?	L	L	L	L
P	Davallia trichomanoides	squirrel's foot fern	M	H	M	H	/	H
⊗ Gc	Delosperma spp.	ice plant (Delosperma)	L	M	L	L	/	L
P	Delphinium spp.	delphinium	M	M	M	M	M	M
T S	Dendriopoterium menendezii	dendriopoterium	?	?	M	?	/	?
S	Dendromecon spp.	bush poppy	VL	L	VL	L	/	/
P	Deschampsia caespitosa	tufted hairgrass	L	L	L	L	/	/
S	Deutzia spp.	bridal wreath	M	M	/	M	M	/
P	Dianella tasmanica	blueberry	M	?	M	M	/	?
P	Dianthus spp.	pink/carnation	M	M	M	M	M	M
P	Diascia spp.	twinspur	M	M	M	M	/	/
P	Dicentra spp.	bleeding heart	M	M	M	H	/	/
Gc	Dichondra micrantha	dichondra	H	H	H	H	/	H
S P	Dicksonia antarctica	Tasmanian tree fern	H	H	H	H	/	/
P	Dicliptera suberecta	velvet honeysuckle	L	?	M	?	?	M
P	Dierama spp.	fairy wand	M	M	M	?	?	?
P	Dietes bicolor	fortnight lily	L	L	M	M	/	M
P	Dietes vegeta	fortnight Lily	L	L	M	M	/	M
P	Digitalis mertonensis	foxglove	M	M	M	M	M	M
T	Diospyros kaki	Japanese persimmon	L	M	M	M	M	M
	Diplacus (see Mimulus)							
V	Distictis buccinatoria	blood red trumpet vine	M	M	M	M	/	M
V	Distictis 'Rivers'	royal trumpet vine	M	M	M	M	/	M
S	Dizygotheca elegantissima	thread leaf false aralia	/	M	M	M	/	M
S	Dodonaea viscosa	hopseed bush	L	L	L	M	/	M
S	Dodonaea viscosa 'Purpurea'	purple hopseed bush	L	L	L	M	//	M
T S	Dombeya spp.	dombeya	/	/	M	M	/	/
T	Dombeya cacuminum	strawberry snowball	?	/	M	M	/	/
S	Doryanthes palmeri	spear lily	L	/	L	L	/	/
S	Dorycnium hirsutum	dorycnium	/	?	L	?	?	?
T	Dracaena draco	dragon Tree	L	/	VL	L	/	/
Gc	Drosantherum spp.	ice plant (Drosantherum)	L	L	L	L	/	L
P	Dryopteris erythrosora	wood fern	M	M	M	M	/	/

TYPE		BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
				1	2	3	4	5	6
⊗	Gc	Duchesnea indica	Indian mock strawberry	M	M	M	M	/	M
	P	Dudleya spp.	dudleya, live forever	L	L	VL	L	L	L
	S	Duranta repens	sky flower	/	/	M	M	/	M
	S	Duranta stenostachya	Brazilian sky flower	/	/	M	M	/	/
	P	Dyckia spp.	dyckia	L	?	L	L	?	?
	P Gc	Dymondia margaretae	dymondia	L	?	L	L	/	/
	P	Dyssodia pentachaeta	golden fleece	?	M	?	?	M	M
	S P	Echeveria spp.	hens and chickens	L	L	L	L	/	M
	P	Echinacea spp.	cone flower	M	M	M	M	M	M
	S	Echinocactus spp.	barrel cactus	VL	VL	L	L	/	L
	P	Echinops exaltus	globe thistle	M	M	M	?	?	M
⊗	S P	Echium fastuosum	pride of madeira	L	L	L	L	/	M
	T S	Elaeagnus angustifolia	Russian olive	L	L	L	L	M	M
	S	Elaeagnus X ebbengei	Ebbinge's silverberry	L	L	?	?	M	M
	S	Elaeagnus pungens	silverberry	L	L	L	L	L	L
	P	Elymus spp.	wild rye	L	L	L	L	M	M
	P	Encelia californica	California encelia	L	?	VL	L	/	L
	S	Encelia farinosa	brittle bush	L	?	VL	L	L	L
	S	Enkianthus campanulatus	red-veined enkianthus	M	H	?	?	?	?
	S P	Ensete ventricosum	Abyssinian banana	H	H	H	H	/	H
	P	Epilobium spp.(Zauchneria)	California fuchsia	L	L	VL	L	/	M
	Gc	Epimedium grandiflorum	bishop's hat	M	M	/	/	/	/
	P	Equisetum spp.	horsetail	H	H	H	H	H	H
	S	Eremophila glabra	emu bush	L	?	L	?	/	L
	S	Eremophila maculata	spotted emu bush	L	L	L	?	/	L
	S Gc	Erica spp.	heath	M	M	M	/	/	/
	S	Ericameria laricifolia (Haplopappus)	turpentine bush	?	?	?	?	L	L
	P	Erigeron glaucus	beach aster	L	/	M	?	/	/
	P	Erigeron karvinskianus	fleabane	L	M	M	M	M	M
	S P	Eriogonum spp.	buckwheat	L	L	VL	L	L	L
	P Gc	Erodium chamaedryoides	cranesbill(chamaedryoides)	L	M	M	M	M	M
	P Gc	Erodium chrysanthum	cranesbill (chrysanthum)	L	M	M	M	M	M
	T	Eryobotrya deflexa	bronze loquat	M	M	M	M	/	M
	T	Eryobotrya japonica	loquat	L	L	M	M	/	M
	P	Erysimum linifolium	wallflower	L	L	L	M	/	M
	T	Erythrina americana(E.coralloides)	naked coral tree	/	/	L	M	/	/

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS						
			1	2	3	4	5	6	
T	<i>Erythrina caffra</i>	kaffir bloom coral tree	/	/	L	L	/	/	
T S	<i>Erythrina crista-galli</i>	cockspur coral tree	M	M	L	L	/	M	
T	<i>Erythrina falcata</i>	coral tree (falcata)	/	/	L	/	/	/	
T	<i>Erythrina humeana</i>	Natal coral tree	/	M	L	M	/	/	
T	<i>Erythrina sykesii</i>	Sykes coral tree	?	/	L	L	/	/	
S	<i>Escallonia</i> spp.	escallonia	M	M	M	M	/	M	
P	<i>Eschscholzia californica</i>	California poppy	VL	L	L	L	L	L	
S	<i>Espostoa lantana</i>	Peruvian old man cactus	?	?	L	L	L	L	
⊗	T	<i>Eucalyptus camaldulensis</i>	red gum	VL	L	L	L	M	M
T	<i>Eucalyptus campaspe</i>	silver gimlet	?	?	M	?	/	M	
T	<i>Eucalyptus cinerea</i>	ash leaved gum, silver dollar tree	VL	L	L	L	/	/	
T	<i>Eucalyptus citriodora</i>	lemon scented gum	L	/	L	M	/	M	
T	<i>Eucalyptus cladocalyx</i>	sugar gum	L	/	L	L	/	/	
T	<i>Eucalyptus deglupta</i>	mindinao gum	/	/	M	M	/	/	
T	<i>Eucalyptus erythrocorys</i>	red cap gum	L	L	M	M	/	M	
T	<i>Eucalyptus ficifolia</i>	red flowering gum	L	/	M	M	/	/	
T	<i>Eucalyptus formanii</i>	Forman's mallee	?	?	L	?	?	L	
⊗ ⊗	T	<i>Eucalyptus globulus</i>	blue gum	L	L	L	M	/	/
T	<i>Eucalyptus gunnii</i>	cider gum	L	L	L	L	?	/	
T	<i>Eucalyptus kruseana</i>	book-leaf mallee	VL	/	L	?	/	?	
T	<i>Eucalyptus lehmannii</i>	bushy yate	L	L	L	L	/	/	
T	<i>Eucalyptus leucoxylon</i>	white ironbark	L	L	L	L	/	M	
T	<i>Eucalyptus loxophleba</i>	York gum	?	VL	?	VL	/	/	
T	<i>Eucalyptus macranda</i>	long flowered marlock	VL	VL	VL	L	/	L	
T	<i>Eucalyptus maculata</i>	spotted gum	L	/	M	M	/	/	
T	<i>Eucalyptus microtheca</i>	coolibah	L	L	L	L	M	M	
T	<i>Eucalyptus nicholii</i>	Nichol's willow leaf peppermint	L	L	M	M	M	M	
T	<i>Eucalyptus polyanthemos</i>	silver dollar gum	L	L	L	L	M	M	
T	<i>Eucalyptus preissiana</i>	bell mallee	VL	/	L	?	/	?	
⊗	T	<i>Eucalyptus pulverulenta</i>	silver mountain gum	L	M	M	M	/	M
T	<i>Eucalyptus robusta</i>	swamp mahogany	L	L	L	L	/	/	
T	<i>Eucalyptus rudis</i>	flooded gum	L	L	L	L	M	M	
T	<i>Eucalyptus sargentii</i>	Salt River mallet	?	VL	?	L	/	L	
T	<i>Eucalyptus sideroxylon</i>	red iron bark	L	L	L	L	M	M	
T	<i>Eucalyptus spathulata</i>	swamp mallee	L	/	L	L	/	M	
T	<i>Eucalyptus torelliana</i>	cadaga	M	/	?	?	?	?	

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
T	<i>Eucalyptus torquata</i>	coral gum	L	L	L	M	/	M
T	<i>Eucalyptus viminalis</i>	mannan gum	L	L	L	M	/	M
T	<i>Eucalyptus woodwardii</i>	lemon flowered gum	VL	?	L	?	?	L
Gc	<i>Euonymus fortunei</i>	purple winter creeper	MM	M	M	M	M	/
V	<i>Euonymus fortunei radicans</i>	winter creeper	M	M	/	M	M	M
S	<i>Euonymus japonica</i>	evergreen euonymus	L	L	M	M	M	M
T S	<i>Euphorbia cotinifolia</i>	Caribbean copper plant	/	/	M	/	/	/
S	<i>Euphorbia milii</i>	crown of thorns	/	L	L	L	/	L
S	<i>Euphorbia pulcherrima</i>	poinsettia	/	/	L	M	/	M
S	<i>Euphorbia rigida</i>	euphorbia (rigida)	/	L	VL	L	/	L
S	<i>Euphorbia tirucali</i>	milk bush	/	/	VL	/	/	L
S P	<i>Euryops pectinatus</i>	euryops/shrub daisy	L	L	L	L	M	M
S P	<i>Euryops pectinatus viridis</i>	green euryops	M	M	M	M	M	M
P	<i>Evolvulus nuttallianus</i>	evolvulus	?	?	M	M	/	?
S	<i>Fabiana imbricana</i>	fabiana	?	?	M	?	?	?
T	<i>Fagus sylvatica</i>	European beech	M	H	/	/	/	/
S	<i>Fallugia paradoxa</i>	Apache plume	/	?	VL	VL	L	L
V	<i>Fatshedera lizei</i>	fatshedera	M	M	M	H	/	H
S	<i>Fatsia japonica</i>	Japanese aralia	M	M	M	M	/	H
T S	<i>Feijoa sellowiana</i>	pineapple guava	L	L	L	M	/	M
S	<i>Felicia amelloides</i>	blue marguerite	M	M	M	M	/	M
S	<i>Felicia fruticosa</i>	shrub aster	/	L	L	M	/	M
S	<i>Ferocactus</i> spp.	barrel cactus	VL	VL	VL	L	L	L
P	<i>Festuca californica</i>	California fescue	L	M	M	M	M	M
P	<i>Festuca ovina glauca</i>	blue fescue	L	L	M	M	M	M
T	<i>Ficus auriculata</i>	Roxburgh fig	/	/	M	M	/	/
T S	<i>Ficus benjamina</i>	weeping Chinese banyan	/	/	M	/	/	M
T	<i>Ficus carica</i>	edible fig	M	M	M	M	M	M
T S	<i>Ficus elastica</i>	rubber plant	/	/	M	M	/	/
T	<i>Ficus macrophylla</i>	Moreton Bay fig	/	/	M	M	/	/
T	<i>Ficus microcarpa</i>	Indian laurel fig/ laurel fig	M	/	M	M	/	M
V	<i>Ficus pumila</i>	creeping fig	M	M	M	M	M	M
T	<i>Ficus rubiginosa</i>	rusty leaf fig	M	/	M	M	/	/
S	<i>Forestiera neomexicana</i>	desert olive	?	?	L	L	L	L
S	<i>Forsythia X intermedia</i>	forsythia	L	L	M	M	M	M
S	<i>Fouquieria splendens</i>	ocotillo	/	/	VL	L	L	L

⊗

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL					
			EVALUATIONS					
			1	2	3	4	5	6
Gc	<i>Fragaria chiloensis</i>	wild strawberry	M	M	M	M	M	M
P	<i>Francoa ramosa</i>	bridal wreath	M	M	M	?	?	?
T S	<i>Franklinia alatamaha</i> (<i>Gordonia altmahama</i>)	franklin tree	M	/	/	/	/	/
T	<i>Fraxinus americana</i>	white ash	M	M	/	/	/	/
T	<i>Fraxinus latifolia</i>	Oregon ash	H	H	/	/	/	/
T	<i>Fraxinus 'Moraine'</i>	moraine ash	M	M	/	/	M	M
T	<i>Fraxinus oxycarpa</i> 'Raywood'	raywood ash	M	M	M	M	M	M
T	<i>Fraxinus pennsylvanica</i> 'Marshal'	green ash	M	M	/	/	M	M
T	<i>Fraxinus uhdei</i>	evergreen ash	M	M	M	M	H	H
T	<i>Fraxinus velutina</i>	Arizona ash	M	M	M	M	M	M
T	<i>Fraxinus velutina</i> 'Modesto'	Modesto ash	M	M	M	M	M	M
S	<i>Fremontodendron</i> spp.	flannel bush	VL	VL	VL	L	/	/
P	<i>Fuchsia</i> spp.	fuchsia	M	M	H	H	/	/
S	<i>Furcraea</i> spp.	furcraea	L	/	/	L	L	?
P	<i>Gaillardia grandiflora</i>	blanket flower	L	L	M	M	M	M
P	<i>Galium odoratum</i>	sweet woodruff	M	M	H	/	/	/
S	<i>Galvesia juncea</i>	Baja bush-snapdragon	?	?	VL	L	/	M
S	<i>Galvesia speciosa</i>	island bush snapdragon	L	L	VL	L	?	M
S	<i>Gamolepis chrysanthemumoides</i>	gamolepis	M	M	M	M	/	H
S	<i>Gardenia</i> spp.	gardenia	M	M	M	M	/	M
S	<i>Garrya elliptica</i>	coast silktassel	L	L	L	M	/	/
S	<i>Garrya flavescens</i>	ashy silktassel	/	?	L	L	/	/
S	<i>Garrya fremontii</i>	Fremont silktassel	L	L	VL	/	/	/
P	<i>Gasteria</i> spp.	mother-in-law's tongue etc.	L	L	L	L	/	?
S	<i>Gaultheria shallon</i>	salal	M	M	/	H	/	/
P	<i>Gaura lindheimeri</i>	gaura	M	M	M	M	M	M
Gc	<i>Gazania</i> spp.	gazania	M	M	M	M	M	M
T	<i>Geijera parviflora</i>	Australian willow	M	M	L	M	M	M
V	<i>Gelsemium sempervirens</i>	Carolina jessamine	L	L	M	M	/	M
Gc	<i>Genista lydia</i>	Lydia woadwaxen	M	?	M	?	/	/
Gc	<i>Genista pilosa</i> (Vancouver Gold)	Vancouver gold genista	M	M	/	M	?	M
⊗ ⊗ S	<i>Genista</i> spp.	broom (Genista)	L	L	M	M	/	M
Gc P	<i>Geranium incanum</i>	cranesbill (incanum)	L	L	M	M	/	M
P	<i>Geranium sanguinum</i>	cranesbill (sanguinum)	M	M	M	M	/	M
P	<i>Gerbera jamesonii</i>	Transvaal daisy	M	M	M	M	/	M
P	<i>Geum</i> spp.	geum	M	M	M	M	M	/

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL					
			EVALUATIONS					
			1	2	3	4	5	6
T	<i>Ginkgo biloba</i>	maiden hair tree	M	M	M	M	M	/
P Gc	<i>Glechoma hederaceae</i>	ground ivy	L	M	M	H	/	/
T	<i>Gleditsia triacanthos</i>	honey locust	L	L	M	L	L	L
T	<i>Gordonia lasianthus</i>	lob lolly bay	?	?	H	?	?	?
P	<i>Graptopetalum</i> spp.	graptopetalum	L	L	L	L	/	M
S	<i>Grevillea</i> spp.	grevillea	L	L	L	L	/	M
T	<i>Grevillea robusta</i>	silk oak	L	L	L	M	/	M
S	<i>Grewia occidentalis</i>	lavender star flower	M	M	M	M	/	M
S	<i>Griselinia littoralis</i>	griselinia (littoralis)	M	/	M	/	/	/
S	<i>Griselinia lucida</i>	griselinia (lucida)	M	/	M	/	/	/
S	<i>Gutterrezia sarothrae</i>	stickle Broom	?	?	/	/	L	L
P	<i>Gypsophila paniculata</i>	baby's breath	L	L	M	M	/	M
S	<i>Hakea laurina</i>	sea urchin tree	L	L	L	L	/	/
S	<i>Hakea suaveolens</i>	sweet hakea	L	L	L	L	/	/
S	<i>Hamamelis virginiana</i>	common witch hazel	M	M	/	/	/	/
S	<i>Hamelia patens</i>	Texas firecracker bush	?	?	?	?	/	M
V	<i>Hardenbergia violacea</i>	lilac vine	M	M	M	M	/	M
T	<i>Harpephyllum caffrum</i>	kaffir plum	M	/	M	M	/	/
T	<i>Harpullia arborea</i>	tulipwood	/	/	M	/	/	/
P	<i>Haworthia</i> spp.	haworthia	L	L	L	L	/	L
S	<i>Hebe</i> spp.	hebe	M	M	M	M	/	/
⊕ Gc V	<i>Hedera canariensis</i>	Algerian ivy	M	M	M	M	M	M
⊕ ⊕ Gc V	<i>Hedera helix</i>	English ivy	M	M	M	M	M	M
S	<i>Hedychium coronarium</i>	white ginger lily	M	/	H	H	/	H
S	<i>Hedychium gardnerianum</i>	Kahili ginger	M	/	H	H	/	H
P	<i>Helianthemum nummularium</i>	sunrose	L	L	L	L	/	/
P	<i>Helictotrichon sempervirens</i>	blue oat grass	L	L	M	M	M	M
P	<i>Heliotropium arborescens</i>	common heliotrope	M	M	M	?	?	M
P	<i>Helleborus</i> spp.	hellebore	M	M	M	M	/	/
P	<i>Hemerocallis</i> spp.	day lily	M	M	M	M	M	M
Gc	<i>Herniaria glabra</i>	green carpet	H	M	M	M	/	/
S	<i>Hesperaloe funifera</i>	Coahuilan hesperaloe	?	?	VL	L	L	L
S	<i>Hesperaloe parviflora</i>	red/ yellow yucca	?	?	VL	L	L	L
S	<i>Heteromeles arbutifolia</i>	toyon	VL	VL	L	L	/	/
P	<i>Heuchera maxima</i>	island alum root	M	/	M	M	/	/
P	<i>Heuchera sanguinea</i>	coral bells	M	M	M	M	M	M

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL					
			EVALUATIONS					
			1	2	3	4	5	6
P	<i>Hibbertia cunififormis</i>	hibbertia	M	M	/	/	/	M
V	<i>Hibbertia scandens</i>	Guinea gold vine	M	M	M	M	/	M
S	<i>Hibiscus rosa-sinensis</i>	Chinese hibiscus	M	M	M	M	/	H
S P	<i>Hibiscus mutabilis</i>	confederate rose	M	M	?	M	?	?
S	<i>Hibiscus syriacus</i>	rose of Sharon	L	M	M	M	M	M
P	<i>Hosta</i> spp.	plantain lily	M	M	/	/	/	/
P	<i>Houttuynia cordata</i> 'Chameleon'	chameleon houttuynia	M	M	M	?	?	?
S	<i>Howea forsterana</i>	sentry palm	/	/	M	M	/	/
S V	<i>Hydrangea anomala</i> petiolaris	climbing hydrangea	M	H	/	H	/	/
S	<i>Hydrangea macrophylla</i>	hydrangea	M	H	M	H	H	H
S	<i>Hydrangea paniculata</i> 'Grandiflora'	peegee hydrangea	M	?	M	?	?	?
S	<i>Hydrangea quercifolia</i>	oakleaf hydrangea	M	?	M	M	H	H
T	<i>Hymenosporum flavum</i>	sweet shade	M	/	M	M	/	/
S	<i>Hypericum beanii</i>	Henry St. John's wort	M	M	M	M	M	?
Gc	<i>Hypericum calycinum</i>	Aaron's beard	M	M	M	M	M	/
S	<i>Hypericum</i> 'Hidecote'	St. Johnswort	M	M	M	M	M	/
S P	<i>Hypericum moserianum</i>	gold flower	M	M	M	M	M	/
P	<i>Iberis sempervirens</i>	evergreen candy tuft	M	M	M	M	M	M
S	<i>Ilex X altaclarensis</i> 'Wilsonii'	Wilson holly	M	M	M	M	M	M
⊗ S	<i>Ilex aquifolium</i>	English holly	L	M	M	M	M	M
S	<i>Ilex cornuta</i> 'Burfordii'	Burford holly	L	M	M	M	M	M
S	<i>Ilex dimorphophilla</i>	Okinawan holly	M	M	M	M	/	?
S	<i>Ilex X meserveae</i>	blue boy/girl etc. cvs.	M	M	M	M	/	?
S	<i>Ilex vomitoria</i>	yaupon	L	M	L	L	M	M
P	<i>Impatiens oliveri</i>	poor man's rhododendron	M	/	H	/	/	/
P	<i>Imperata cylindrica</i> 'Rubra'	Japanese blood grass	H	H	M	M	?	M
S	<i>Lochroma cyaneum</i>	tubeflower	M	?	M	M	/	/
P	<i>Ipheion uniflorum</i> (Tritelia)	spring star flower	L	L	L	?	?	?
V	<i>Ipomoea acuminata</i>	blue dawn flower	L	M	L	?	/	M
P	<i>Iris</i> spp.	Douglas iris hybrids	L	L	M	M	/	/
P	<i>Iris</i> spp.	bearded iris	L	L	M	M	M	M
P	<i>Iris</i> spp.	Japanese iris	H	H	H	H	/	/
P	<i>Iris</i> spp.	Spanish/Dutch iris	M	M	M	M	M	M
S	<i>Isocoma</i> spp. (Haplopappus)	goldenbush	?	?	VL	VL	VL	VL
Gc	<i>Iva hayesiana</i>	poverty weed	VL	VL	VL	L	/	/
S	<i>Ixora coccinea</i>	jungle geranium	?	?	M	?	/	?

REGIONAL

TYPE	BOTANICAL NAME	COMMON NAME	EVALUATIONS					
			1	2	3	4	5	6
T	Jacaranda mimosifolia	jacaranda	M	M	M	M	/	M
S V	Jasminum angulare	South African jasmine	?	/	M	?	?	?
S	Jasminum floridum	showy jasmine	L	M	M	M	/	M
S	Jasminum humile	Italian jasmine	L	M	M	M	/	M
V	Jasminum leratii	jasmine (leratii)	?	?	M	M	/	/
S	Jasminum mesnyi	primrose jasmine	L	M	M	M	/	M
S	Jasminum nitidum	angel wing jasmine	L	M	M	M	/	M
V	Jasminum polyanthum	pink jasmine	M	M	M	M	/	M
T	Jubaea chilensis	Chilean wine palm	L	M	L	M	/	/
T	Juglans californica	S. California black walnut	L	/	L	L	/	/
T	Juglans hindsii	California black walnut	M	M	/	L	/	/
T	Juglans nigra	eastern black walnut	M	M	/	/	/	/
T	Juglans regia	English walnut	M	M	M	M	/	/
T	Juniperus californica	California juniper	L	L	L	L	L	L
T	Juniperus scopulorum'Tolleson'	Tolleson's juniper	L	L	M	M	M	M
S Gc	Juniperus spp.	juniper	L	L	L	M	M	M
S	Justicia brandegeana	shrimp plant	M	M	M	M	/	M
S	Justicia californica	chuparosa	?	/	VL	L	L	L
S	Justicia carnea	Brazilian plume flower	M	H	H	H	/	H
S	Justicia sonorea	Sonoran justicia	?	?	?	?	?	L
S	Justicia spicigera	Mexican honeysuckle	/	?	L	M	/	L
P	Kalanchoe spp.	kalanchoe	L	L	L	L	/	M
S	Keckiella antirrhinoides	yellow penstemmon	?	?	L	L	/	/
S V	Keckiella cordifolia	heart-leaved penstemmon	?	?	VL	L	/	/
S	Kerria japonica	Japanese rose	M	M	?	M	M	?
P	Kniphofia uvaria	red hot poker	L	L	L	L	/	M
P	Koeleria glauca	blue hair grass	?	?	M	?	M	?
T	Koelreuteria bipinnata	Chinese flame tree	M	M	M	M	M	M
T	Koelreuteria paniculata	golden rain tree	M	M	M	M	M	M
S	Kolkwitzia amabilis	beauty bush	L	M	M	M	M	/
S	Kunzea spp.	kunzea	L	?	M	?	?	?
T	Laburnum X watereri	golden chain tree	M	M	/	/	/	/
T S	Lagerstroemia indica	crape myrtle	L	L	M	M	M	M
T	Lagunaria patersonii	primrose tree	L	/	L	L	/	/
Gc P	Lamiastrum galeobdolon	yellow archangel	M	M	M	?	?	?
Gc	Lampranthus spp.	ice plant (Lampranthus)	L	L	L	L	/	L

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS
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			1	2	3	4	5	6	
	S	Lantana camara	lantana	L	L	L	L	/	M
	Gc P	Lantana montevidensis	lantana	L	L	L	L	/	M
	S	Larrea tridentata	creosote	VL	VL	VL	L	L	L
	P Gc	Laurentia fluvialis	blue star creeper	M	M	M	M	?	M
	T	Laurus nobilis	sweet bay	L	L	L	L	M	M
	S P	Lavandula spp.	lavender	L	L	L	L	M	M
	S	Lavatera assurgentiflora	tree mallow	L	M	L	L	/	M
	S	Lemaireocereus thurbii	organ pipe cactus	/	?	VL	L	/	L
	S	Leonotis leonurus	lion's tail	L	L	L	L	M	M
	T S	Leptospermum laevigatum	Australian tea tree	L	L	L	L	/	/
	S Gc	Leptospermum scoparium	New Zealand tea tree	M	M	L	L	/	/
	T	Leucodendron argenteum	Silver tree	L	/	L	/	/	/
	S	Leucophyllum spp.	purple sage, Texas ranger etc.	L	L	L	L	L	L
	S	Leucospermum cordifolium	nodding pincushion	/	/	L	/	/	/
	P	Liatris spicata	gay feather	M	M	M	M	M	M
	P	Libertia spp.	libertia	L	?	M	?	?	?
	S	Ligustrum japonicum	Japanese privet	M	M	M	M	M	M
	T	Ligustrum lucidum	glossy privet	L	L	M	M	M	M
	P	Lilium (garden hybrids)	lily	M	M	M	M	M	M
⊗	P	Limonium perezii	statice	L	L	L	M	/	M
	P	Linaria purpurea	toadflax	L	M	L	M	M	M
	T	Liquidambar styraciflua	sweet gum	M	M	M	M	M	/
	T	Liriodendron tulipifera	tulip tree	M	H	M	M	M	/
	P	Lirope muscari	big blue lily turf	M	M	M	M	M	H
	Gc	Lirope spicata	creeping lily turf	M	M	M	M	M	M
	T	Lithocarpus densiflorus	tanbark oak	L	/	L	L	/	/
	P	Lithodora diffusa	heavenly blue	M	M	/	/	/	/
	T	Livistona australis	Australia fountain palm	?	/	M	M	/	/
	T	Livistona chinensis	Chinese fountain palm	?	/	M	M	/	/
	S P	Lobelia laxiflora	Mexican bush lobelia	?	?	VL	VL	?	M
	P	Lobelia richmondensis	perennial lobelia	M	?	M	?	?	?
	V	Lonicera hildebrandiana	giant Burmese honeysuckle	M	M	M	M	M	M
⊗	V	Lonicera japonica	Japanese oneysuckle	M	M	L	LL	M	M
⊗	V Gc	Lonicera japonica 'Halliana'	Hall's honeysuckle	M	M	L	L	M	M
	S	Lonicera nitida	box honeysuckle	L	M	/	M	/	/
	V	Lonicera sempervirens	trumpet honeysuckle	M	M	/	M	M	M

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6

	S	<i>Lonicera subspicata</i>	chaparral honeysuckle	?	?	/	M	/	/
	T	<i>Lophostemon confertus</i>	Brisbane box	M	/	M	M	/	/
	S	<i>Loropetalum chinense</i>	Chinese witch hazel	L	M	M	?	?	?
⊗	Gc	<i>Lotus corniculatus</i>	birdsfoot trefoil	L	M	M	M	/	M
	P	<i>Lotus scoparius</i>	deer weed	VL	?	L	VL	/	/
	S	<i>Luma apiculata</i>	luma	M	?	M	M	/	/
	S	<i>Lupinus albifrons</i>	silver lupine	VL	L	/	L	/	/
⊗ ⊗	S	<i>Lupinus arboreus</i>	coastal bush lupine	L	/	L	/	/	/
	P	<i>Lupinus</i> (Russell hybrids)	Russell lupines	M	M	/	/	/	/
	P	<i>Lychnis chalcedonica</i>	Maltese cross	?	?	M	M	M	M
	P	<i>Lychnis coronaria</i>	rose campion/crown pink	L	L	L	L	M	M
	S	<i>Lycianthus rantonnetii</i>	Paraguay nightshade/blue potato bush	M	M	M	M	/	M
	T	<i>Lyonothamnus floribunda</i>	Catalina ironwood	L	/	VL	L	/	/
	T S	<i>Lysiloma candida</i>	palo blanca	/	/	?	?	/	M
	T S	<i>Lysiloma thornberi</i>	feather bush	?	/	L	?	/	M
	Gc	<i>Lysimachia nummularia</i>	moneywort	H	H	H	H	/	/
	T	<i>Macadamia</i> spp.	macadamia nut	M	/	M	M	/	/
	V	<i>Macfadyena unguis-cati</i>	cat's claw	L	L	L	L	L	L
	S	<i>Mackaya bella</i>	mackaya	M	?	M	M	/	/
	P	<i>Macleaya</i> spp.	plume poppy	M	?	M	?	?	?
	T	<i>Magnolia grandiflora</i>	southern magnolia	M	M	M	M	/	H
	T	<i>Magnolia soulangeana</i>	saucer magnolia	M	M	M	M	M	/
	T	<i>Magnolia stellata</i>	star magnolia	M	M	M	M	M	/
	S	<i>Mahonia aquifolium</i>	Oregon grape	M	M	M	M	M	M
	S	<i>Mahonia bealei</i>	leatherleaf mahonia	M	M	M	M	M	M
	S	<i>Mahonia</i> 'Golden Abundance'	golden abundance mahonia	L	L	L	M	M	M
	S	<i>Mahonia lomariifolia</i>	Chinese holly grape	M	M	L	M	M	M
	S	<i>Mahonia nevinii</i>	Nevin mahonia	VL	L	L	L	M	M
	S	<i>Mahonia pinnata</i>	California holly grape	L	L	M	M	M	M
	Gc	<i>Mahonia repens</i>	creeping mahonia	L	L	L	M	M	/
	S	<i>Malacothamnus fasciculatus</i>	bush mallow	L	?	VL	L	/	/
	Gc	<i>Maleophora</i> spp.	ice plant (<i>Maleophora</i>)	L	L	L	L	/	L
	S	<i>Malosma laurina</i> (<i>Rhus laurina</i>)	laurel sumac	VL	L	VL	L	/	/
	T	<i>Malus</i> spp.(edible)	apple	M	M	M	M	M	/
	T	<i>Malus</i> spp. eg.'Robinson'	crabapple	M	M	/	M	M	/
	V	<i>Mandevilla laxa</i>	Chilean jasmine	M	/	M	M	/	M

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
			S	<i>Mandevilla splendens</i>	mandevilla	M	/	M

V	Mandevilla cvs.	'Alice Dupont' etc.	M	/	M	H	/	H
T	Markhamia hildebrandtii	markhamia	?	?	M	/	/	/
V	Mascagnia lilacina	purple orchid vine	?	?	?	?	?	M
V	Mascagnia macroptera	yellow orchid vine	?	?	?	?	?	M
V	Maurandya antirrhiniflora	snapdragon vine	?	?	M	?	/	M
T	Maytenus boaria	mayten tree	M	M	M	M	/	/
P	Mazus reptans	mazus	M	?	M	H	?	?
T S	Melaleuca armillaris	bracelet honey-myrtle	VL	?	L	M	/	M
T S	Melaleuca decussata	totem poles (lilac melaleuca)	VL	?	L	M	/	M
T S	Melaleuca elliptica	granite honey-myrtle	VL	?	L	M	/	M
S	Melaleuca fulgens	melaleuca (fulgens)	?	?	L	M	/	M
S	Melaleuca huegelii	chenile honey-myrtle	?	?	L	M	/	M
S	Melaleuca incana	grey honey-myrtle	?	?	L	M	/	M
T	Melaleuca lanceolata	black tea	?	L	?	L	/	/
T	Melaleuca linariifolia	flax leaf paper bark	L	L	L	L	/	/
T	Melaleuca nesophila	pink melaleuca	L	L	L	L	/	/
T	Melaleuca quinquenervia	cajeput tree	L	L	M	M	/	M
T	Melaleuca raphiophylla	swamp paper bark	?	L	?	L	/	/
T	Melaleuca squamea	swamp honey-myrtle	?	?	L	M	/	M
T	Melaleuca styphelioides	melaleuca (styphelioides)	L	L	L	M	/	M
P	Melampodium leucanthum	blackfoot daisy	L	/	?	L	L	L
T	Melia azedarach	chinaberry	VL	L	VL	L	L	L
S	Melianthus major	honey bush	L	M	M	M	/	M
Gc P	Mentha spp.	mint	L	L	M	M	M	M
V	Merremia aurea	merremia (aurea)	?	?	?	?	/	M
V	Merremia quinquefolia	merremia (quinquefolia)	?	?	?	?	/	M
T	Metasequoia glyptostroboides	dawn redwood	H	H	H	H	/	/
T	Metrosideros excelsus	New Zealand Christmas tree	L	/	M	M	/	/
T	Michelia doltsopa	wong-lan	M	M	M	M	/	/
S	Michelia figo	banana shrub	M	?	M	H	/	H
P	Microlepia strigosa	lace fern	M	/	M	H	/	/
V	Milletia reticulata	evergreen wisteria	?	?	M	M	/	/
S	Mimulus spp. (Diplacus)	monkey flower	L	L	L	L	/	/
P	Mirabilis jalapa	four o'clock	L	L	/	L	M	M
P	Miscanthus sinensis	eulalia grass	M	M	M	M	M	M

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
P	Miscanthus transmorrisonensis	evergreen eulalia	?	?	M	?	M	M
P	Monarda didyma	bee balm	M	M	M	M	M	M

	P	Monardella villosa	coyote mint	VL	VL	VL	L	?	M
	T	Morus alba	white mulberry	M	M	M	M	M	M
	Gc V	Muehlenbeckia axillaris	creeping wire vine	M	M	M	M	/	M
	Gc V	Muehlenbeckia complexa	mattress vine	L	L	M	M	/	M
	P	Muhlenbergia capillaris	hairy awn muhly	?	?	M	?	M	M
	P	Muhlenbergia dumosa	bamboo muhly	L	?	M	M	M	M
	P	Muhlenbergia rigens	deer grass	L	?	L	M	M	M
	S	Murraya paniculata	orange jessamine	/	H	M	M	/	M
	S P	Musa spp.	banana	H	H	H	H	/	M
⊗	T S	Myoporum laetum	myoporum	L	M	M	M	/	/
	S Gc	Myoporum X 'Pacificum'	pacifica saltbush	L	L	L	M	/	/
	S Gc	Myoporum parvifolium	myoporum	L	L	L	L	/	M
	S Gc	Myoporum 'South Coast'	south coast myoporum	L	L	L	M	/	/
⊗	P	Myosotis scorpioides	forget-me-not	M	M	/	M	/	H
	S	Myrica californica	Pacific wax myrtle	L	L	L	M	/	/
	S	Myrsine africana	African boxwood	L	L	L	M	/	/
	S	Myrtus communis	true myrtle	L	L	L	M	M	M
	S	Nandina domestica	heavenly bamboo	L	L	L	M	M	M
	S	Nandina domestica 'Purpurea'	heavenly bamboo (Nana)	M	M	M	M	M	M
	P	Narcissus spp.	daffodil	VL	VL	L	L	L	L
	T	Neodypsis decaryi	triangle palm	?	/	M	?	/	/
	P	Nepeta X faassenii	catmint	L	M	M	M	M	M
	P	Nephrolepis cordifolia	southern sword fern	M	M	M	M	M	M
	P	Nephrolepis exaltata	sword fern	/	M	M	M	M	M
	P	Nerine spp.	nerine	L	L	L	?	M	M
⊗	S	Nerium oleander	oleander	L	L	L	L	M	M
	P	Nierembergia hippomanica	cup flower	M	M	M	M	/	M
	S P	Nolina spp.	bear grass	?	VL	VL	VL	L	L
	T	Nyssa sylvatica	sour gum/tupelo	M	M	M	H	/	/
	S	Ochna serrulata	bird's eye bush	L	/	M	M	/	/
	Gc P	Oenothera berlandieri	Mexican evening primrose	L	L	L	L	M	M
	P	Oenothera caespitosa	tufted (white) evening primrose	?	?	/	L	L	L
	Gc P	Oenothera cheiranthifolia	beach evening primrose	?	?	VL	/	/	/
	Gc P	Oenothera stubbei	Baja evening primrose	L	L	L	L	M	M

	TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
				1	2	3	4	5	6
⊗	T	Olea europaea	olive	VL	VL	L	L	M	M
	T	Olmediella betschleriana	Guatemalan holly	M	/	M	M	/	/
	T	Olneya tesota	desert ironwood	/	/	L	/	L	L

P	Ophiopogon jaburan	giant lily turf	L	M	M	M	M	M
P	Ophiopogon japonicum	mondo grass	M	M	H	H	H	H
S	Opuntia spp.	prickly pear/cholla	VL	VL	VL	L	L	L
P	Oreganum spp.	dittany/oregano etc.	M	M	L	L	?	?
S	Osmanthus fragrans	sweet olive	M	M	M	M	M	M
S	Osmanthus heterophyllus	holly leaf osmanthus	M	M	M	M	M	M
Gc	Osteospermum spp.	African daisy	L	L	L	L	/	M
V	Oxera pulchella	royal climber	?	/	M	M	/	/
P	Oxypetalum caeruleum	tweedia	?	?	M	?	?	?
T	Pachycormis discolor	elephant tree	?	?	VL	?	?	L
Gc	Pachysandra terminalis	Japanese spurge	M	M	M	/	M	/
P	Paeonia spp.	peony	M	M	/	/	/	/
V	Pandorea jasminoides	bower vine	M	/	M	M	/	/
V	Pandorea pandorana	wonga wonga vine	M	/	M	M	/	/
P	Papaver orientale	oriental poppy	M	M	M	M	M	H
P	Parahebe perfoliata	parahebe	?	?	M	?	?	?
T	Parkinsonia aculeata	Mexican palo verde/ Jerusalem thorn	VL	VL	L	L	L	L
Gc V	Parthenocissus quinquefolia	Virginia creeper	M	M	M	M	M	M
Gc V	Parthenocissus tricuspidata	Boston ivy	M	M	M	M	M	M
V	Passiflora spp.	passion vine	M	M	M	M	/	M
P	Pelargonium domesticum	Martha Washington pelargonium	M	M	M	M	/	M
P	Pelargonium hortorum	garden geranium	L	L	M	M	/	M
Gc P	Pelargonium peltatum	ivy geranium	M	M	M	M	/	M
P	Pennisetum alopecuroides	Chinese pennisetum	L	L	L	L	L	L
⊗ ⊗ P	Pennisetum setaceum	fountain grass	L	VL	L	L	L	L
P	Pennisetum setaceum'Cupreum'	purple fountain grass	L	L	L	L	L	L
P	Penstemon hybrids	penstemon (hybrids)	M	M	M	M	M	M
P	Penstemon wild spp.	penstemon (wild)	L	L	L	L	L	L
S P	Perovskia spp.	Russian sage	M	M	M	M	/	/
T	Persea americana	avocado	M	M	M	M	M	/
V	Petrea volubilis	queens wreath	?	?	M	M	?	?
P	Phalaris spp. (ornamental)	ribbon grass	M	M	M	M	/	/
S	Philadelphus mexicanus	evergreen mock orange	L	M	M	M	M	M

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
S	Philadelphus X virginalis	double mock orange	M	M	M	/	/	/
S P	Philodendron selloum	philodendron	M	M	M	M	/	M
S P	Phlomis fruticosa	Jerusalem sage	L	L	L	L	M	M
P	Phlox (shrubby cvs.)	phlox	M	M	M	M	M	M

	Gc P	Phlox subulata	moss pink	M	M	/	/	M	M
	T	Phoenix canariensis	Canary Island date palm	L	L	L	L	M	M
	T	Phoenix dactylifera	date palm	L	L	L	L	MM	M
	T	Phoenix reclinata	Senegal date palm	/	/	M	M	/	M
	T	Phoenix roebelenii	pigmy date palm	/	/	M	M	/	M
	T	Phoenix rupicola	cliff date palm	/	/	M	M	/	/
	S	Phormium hybrids	flax	L	M	M	M	/	M
	S	Phormium tenax	New Zealand flax	L	L	L	M	/	M
	T S	Photinia X fraseri	Fraser photinia	M	M	M	M	M	M
	T S	Photinia serrulata	Chinese photinia	M	M	/	M	M	M
⊗	Gc	Phyla nodiflora	lippia	L	M	L	L	/	M
	S	Phyllostachys spp.	bamboo (Phyllostachys)	L	L	M	M	M	M
	P	Physostegia virginiana	obedience plant	M	M	M	M	M	M
	T	Picea abies	Norway spruce	M	M	M	/	/	/
	T	Picea pungens	Colorado spruce	M	M	M	/	/	/
	S	Pieris forestii	Chinese pieris	M	M	/	/	/	/
	S	Pieris japonica	lily-of-the-valley shrub	M	M	/	/	/	/
	T	Pinus attenuata	knobcone pine	L	L	L	L	/	/
	T	Pinus X attenu radiata	knobcone-Monterrey pine	M	/	L	M	/	/
	T	Pinus brutia	Calabrian pine	L	L	L	L	M	M
	T	Pinus canariensis	Canary Island pine	L	L	L	M	M	M
	T	Pinus contorta	beach pine	M	M	/	/	/	/
	T	Pinus coulteri	Coulter pine	L	L	L	L	M	/
	T	Pinus densiflora	Japanese red pine	M	M	/	M	/	/
	T	Pinus edulis	pinyon pine	L	L	VL	L	L	/
	T	Pinus eldarica	eldarica pine	L	L	L	L	M	M
	T	Pinus halepensis	Aleppo pine	L	L	L	L	L	L
	T	Pinus jeffreyi	Jeffrey pine	L	L	/	/	/	/
	T	Pinus monophylla	single leaf pinyon pine	L	/	L	L	L	/
	T	Pinus montezumae	Montezuma pine	L	?	L	L	/	/
	S	Pinus mugo	mugo pine	L	L	/	M	M	/
	T	Pinus muricata	bishop pine	M	M	L	/	/	/

	TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
				1	2	3	4	5	6
	T	Pinus nigra	Austrian black pine	M	M	/	M	M	/
	T	Pinus patula	Jelescote pine	M	M	M	M	M	M
⊗	T	Pinus pinaster	cluster pine	M	M	L	/	/	/
⊗	T	Pinus pinea	Italian stone pine	L	L	L	L	M	M
	T	Pinus ponderosa	ponderosa pine	L	L	/	L	/	/

⊕	T	<i>Pinus radiata</i>	Monterey pine	M	/	M	M	/	/	
	T	<i>Pinus roxburghii</i>	chir pine	MMMM	M	M	M	M	M	M
	T	<i>Pinus sabiniana</i>	foothill Pine/ Digger Pine	VL	VL	VL	L	/	/	
	T	<i>Pinus sylvestris</i>	Scotch pine	M	M	/	M	/	/	
	T	<i>Pinus thunbergiana</i>	Japanese black pine	M	M	M	M	M	M	
	T	<i>Pinus torreyana</i>	Torrey pine	L	L	L	M	/	/	
	T	<i>Pisonia umbellifera</i>	bird catcher tree	?	/	M	?	/	/	
	T	<i>Pistacia chinensis</i>	Chinese pistache	L	L	M	M	M	M	
	T	<i>Pistacia vera</i>	pistachio	L	L	M	M	/	/	
	T	<i>Pithecellobium flexicaule</i>	Texas ebony	?	?	/	?	/	L	
	T	<i>Pithecellobium pallens</i>	tenaza	?	?	?	?	L	L	
	T S	<i>Pittosporum crassifolium</i>	evergreen pittosporum	M	M	M	M	/	/	
	T S	<i>Pittosporum eugenioides</i>	tarata	M	M	M	M	/	/	
	T	<i>Pittosporum phylliraeoides</i>	willow pittosporum	M	M	L	L	/	M	
	T S	<i>Pittosporum rhombifolium</i>	Queensland pittosporum	/	/	M	M	/	/	
	T S	<i>Pittosporum tenuifolium</i>	tawhiwhi	M	M	M	M	/	/	
	S	<i>Pittosporum tobira</i>	mock orange	L	M	M	M	M	M	
	S	<i>Pittosporum tobira</i> 'Wheeler's Dwarf'	dwarf pittosporum	M	M	M	M	M	M	
	T	<i>Pittosporum undulatum</i>	victorian box	M	/	M	M	/	/	
	T	<i>Platanus X acerifolia</i>	London plane	L	L	M	M	H	H	
	T	<i>Platanus racemosa</i>	California sycamore	M	M	M	M	H	H	
	T	<i>Platanus wrightii</i>	Arizona sycamore	M	?	M	M	H	H	
	S	<i>Platyclusus orientalis</i>	oriental arborvitae	M	M	M	M	M	M	
	P	<i>Platycodon grandiflorus</i>	balloon flower	M	M	M	M	M	M	
	S	<i>Plecostachys serpyllifolia</i> (Helichrysum)	straw flower	L	L	L	L	M	M	
	S P Gc	<i>Plectranthus</i> spp.	Sweedish ivy	M	/	M	M	/	/	
	S	<i>Plumbago auriculata</i>	cape plumbago	L	M	M	M	/	M	
	S	<i>Plumbago scandens</i>	summer snow	?	?	?	M	/	L	
	S	<i>Plumeria rubra</i>	frangipani	/	/	L	/	/	M	
	T	<i>Podocarpus gracilior</i>	fern pine	MMM	M	M	M	/		M
	T	<i>Podocarpus henkelii</i>	long leaf yellow wood	M	H	M	M	M	/	

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
			T	<i>Podocarpus latifolius</i>	podocarpus (latifolius)	M	?	M
T S	<i>Podocarpus macrophyllus</i>	yew pine	M	M	M	M	M	M
T S	<i>Podocarpus nagi</i>	podocarpus (nagi)	M	M	M	M	M	M
V	<i>Podranea ricasoliana</i>	pink trumpet vine	/	M	M	M	/	M
S	<i>Polygala X dalmaisiana</i>	sweet pea shrub	L	M	M	M	/	/
V	<i>Polygonum aubertii</i>	silver lace vine	L	L	L	L	M	M

Gc	<i>Polygonum capitatum</i>	knotweed	M	M	M	M	M	M
P	<i>Polystichum munitum</i>	sword fern	M	M	M	H	/	H
P	<i>Polystichum polyblepharum</i>	Japanese lace fern	M	H	H	H	M	M
P	<i>Polystichum setiferum</i>	Alaskan fern	M	H	H	H	M	M
T	<i>Populus alba</i> 'Pyramidalis'	bolleana poplar	M	M	M	M	H	H
T	<i>Populus balsamifera</i>	balsam poplar	M	M	M	M	H	H
T	<i>Populus X canadensis</i>	Carolina poplar	H	H	?	M	H	H
T	<i>Populus fremontii</i>	western poplar	M	M	M	M	H	H
T	<i>Populus</i> 'Mohavensis'	Mohave poplar	?	?	?	?	M	M
T	<i>Populus nigra</i> 'Italica'	Lombardy poplar	M	M	M	M	H	H
T	<i>Populus trichocarpa</i>	black cottonwood	H	H	M	M	H	/
S P	<i>Portulacaria afra</i>	elephant's food	L	L	L	L	/	L
S	<i>Potentilla fruticosa</i> cvs.	cinquefoil	M	M	/	/	M	/
Gc	<i>Potentilla tabernaemontanii</i> (verna)	spring cinquefoil	M	M	M	M	/	M
P Gc	<i>Pratia angulata</i>	pratia	?	H	H	H	/	/
T	<i>Prosopis alba</i>	Argentine mesquite	/	L	L	L	M	M
T	<i>Prosopis chilensis</i>	Chilean mesquite	/	L	L	L	M	M
T	<i>Prosopis glandulosa glandulosa</i>	Honey mesquite	/	L	L	L	M	M
T	<i>Prosopis pubescens</i>	screwbean mesquite	/	L	L	L	M	M
T	<i>Prosopis velutina</i>	velvet mesquite	/	L	L	L	M	M
S	<i>Prostanthera rotundifolia</i>	round leaf mint bush	L	M	L	M	/	/
S P	<i>Protea</i> spp.	protea	M	/	M	M	/	/
Gc P	<i>Prunella</i> spp.	self heal	M	M	M	M	?	?
T S	<i>Prunus caroliniana</i>	Carolina laurel cherry	L	L	M	M	M	M
T S	<i>Prunus ilicifolia</i>	holly leaf cherry	L	L	VL	VL	/	/
T S	<i>Prunus lauroceracus</i>	English laurel	M	M	/	H	/	/
T S	<i>Prunus lusitanica</i>	Portugal laurel	L	L	/	/	/	/
T S	<i>Prunus lyonii</i>	Catalina cherry	L	L	L	L	/	/
T	<i>Prunus</i> spp. (edible)	almond	L	M	M	M	M	/
		apricot	M	M	M	M	M	/

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
T	<i>Prunus</i> spp. (edible)	cherry	M	M	M	M	M	/
		peach	M	M	M	M	M	/
		peach (low chill only)	M	M	M	M	/	M
		nectarine	M	M	M	M	M	/
		plum	M	M	M	M	M	/
		plum (low chill only)	L	M	M	M	/	M
		prune	L	M	M	M	M	/

T	Prunus spp. (ornamental)	flowering cherry	M	M	M	M	M	/
		flowering peach	L	M	M	M	M	/
		flowering plum	L	M	M	M	M	M
T S	Pseudopanax lessonii	pseudopanax	M	?	M	M	/	M
S	Psidium cattleianum	strawberry guava	M	M	M	M	/	M
S	Psidium guajava	common guava	/	/	M	/	/	M
S P	Psilostrophe tagetina	paper flower	?	?	?	L	L	L
P	Pteris spp.	brake fern	M	M	M	H	H	/
P	Pulmonaria officinalis	common lungwort	M	H	M	/	/	/
T	Punica granatum	pomegranate	L	L	M	M	M	M
S	Punica granatum 'Nana'	dwarf pomegranate	L	L	M	M	M	M
P	Puya spp.	puya	VL	?	L	L	/	M
⊗ S Gc	Pyracantha spp.	firethorn	L	L	L	M	M	M
V	Pyrostegia venusta	flame vine	/	/	M	M	/	M
T	Pyrus calleryana cultivars	Callery pear	M	M	M	M	M	M
T	Pyrus communis	edible pear	M	M	M	M	M	/
T	Pyrus kawakamii	evergreen pear	M	M	M	M	M	M
T	Quercus agrifolia	coast live oak	VL	VL	L	L	/	M
T	Quercus chrysolepis	canyon live oak	VL	L	L	L	/	/
T	Quercus coccinea	scarlet oak	M	M	/	M	/	/
T	Quercus douglasii	blue oak	VL	VL	VL	L	/	/
T S	Quercus dumosa	California scrub oak	VL	VL	VL	VL	L	/
T	Quercus engelmannii	mesa oak	/	L	L	L	/	/
T	Quercus ilex	holly oak	L	L	L	L	M	M
T	Quercus kelloggii	California black oak	L	M	/	M	/	/
T	Quercus lobata	valley oak	L	L	/	M	/	/
T	Quercus muhlenbergii	chinquapin oak	L	?	?	L	L	M
T	Quercus palustris	pin oak	M	M	/	M	/	/
T	Quercus rubra	red oak	M	M	/	M	/	/

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
T	Quercus shumardii	Shumard red oak	M	M	?	/	/	/
T	Quercus suber	cork oak	L	L	L	L	L	L
T	Quercus texana	Texas red oak	L	?	?	L	L	M
T	Quercus tomentella	island oak	L	?	L	/	/	/
T	Quercus virginiana	southern live oak	M	M	M	M	M	M
T	Quercus wislizeni	interior live oak	VL	VL	VL	VL	M	/
T	Radermachera sinica	radermachera	/	/	M	/	/	/
T	Ravanea rivularis	ravanea	/	?	M	M	/	/

P	Rehmannia elata	rehmannia	H	H	M	H	M	M
Gc	Rhagodia deltophylla	rhagodia	?	?	VL	?	?	?
S	Rhamnus alaternus	Italian buckthorn	L	L	L	M	/	/
S	Rhamnus californica	coffeeberry	L	L	VL	L	/	M
S	Rhamnus crocea	redberry	L	L	VL	L	/	M
S	Rhamnus crocea ilicifolia	hollyleaf redberry	L	L	VL	L	/	M
S	Rhaphiolepis spp.	Indian hawthorne	L	L	M	M	M	M
T	Rhaphiolepis 'Majestic Beauty'	majestic beauty	L	L	M	M	M	M
S	Rhapis excelsa	lady palm	/	/	M	M	/	/
S	Rhododendron spp.	azalea	M	M	H	H	/	/
S	Rhododendron spp.	rhododendron	M	M	H	H	/	/
V	Rhoicissus capensis	evergreen grape	M	/	M	M	/	M
T S	Rhopalostylis baueri	Norfolk palm	?	/	M	M	/	/
T S	Rhopalostylis sapida	Nikau palm	?	/	H	H	/	/
S	Rhus integrifolia	lemonade berry	L	L	VL	L	/	/
T	Rhus lancea	African sumac	L	L	L	L	M	M
T	Rhus lanceolata	prairie flameleaf sumac	?	?	?	?	L	L
	Rhus laurina (see Malosma laurina)							
S	Rhus ovata	sugar bush	L	L	VL	L	M	M
S	Rhus trilobata	squawbush	L	L	L	L	L	/
S T	Rhus typhina	staghorn sumac	L	L	L	?	L	/
S	Ribes aureum	golden currant	L	L	L	L	L	/
S	Ribes indecorum	white flowering currant	L	L	L	L	L	/
S	Ribes malvaceum	chaparral currant	VL	VL	VL	L	/	/
S	Ribes sanguineum	red flowering currant	L	L	L	M	/	/
S	Ribes speciosum	fuchsia flowering gooseberry	L	L	L	M	/	/
S Gc	Ribes viburnifolium	evergreen currant	L	L	L	M	/	/
T	Robinia X ambigua	locust	L	L	L	L	M	M

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
⊗ T	Robinia pseudoacacia	black locust	L	L	L	L	L	L
S P	Romneya coulteri	Matilija poppy	VL	VL	VL	L	/	/
V	Rosa banksiae	Lady Banks rose	LL	L	M	M	M	M
S	Rosa californica	California wild rose	L	L	L	L	/	/
V	Rosa 'Cecile Brunner'	Cecile Brunner rose	L	L	M	M	M	M
S	Rosa hybrids..bush	rose	M	M	M	M	H	H
V	Rosa hybrids..climbing	climbing roses	M	M	M	M	H	H
S P	Rosmarinus officinalis	rosemary	L	L	L	L	M	M

P Gc	Rosemarinus 'Prostratus'	trailing rosemary	L	L	L	L	M	M
S Gc	Rubus calycinoides	bramble	M	M	M	/	/	/
S	Ruellia californica	rama parda	?	?	VL	VL	/	L
S	Ruellia peninsularis	Baja ruellia	/	?	M	M	/	M
P	Rumohra adiantiformis	leather leaf fern	M	M	M	M	/	/
T	Sabal spp.	palmetto	/	/	M	M	/	/
Gc P	Sagina subulata	Irish moss	M	M	M	H	H	H
Gc P	Sagina subulata 'Aurea'	Scotch moss	M	M	M	H	H	H
T S	Salix spp.	willow	H	H	H	H	H	H
S	Salvia apiana	white sage	?	?	VL	VL	L	L
S	Salvia chamaedroides	blue sage	?	L	L	L	/	M
S	Salvia clevelandii	Cleveland sage	L	L	VL	L	/	L
P	Salvia coccinea	Texas sage	L	M	M	M	M	M
P	Salvia dorrii	purple sage	?	M	?	?	M	M
P	Salvia farinacea	nealy cup sage	M	M	M	M	/	M
S	Salvia greggii	autumn sage	L	L	L	L	M	M
S	Salvia leucantha	Mexican bush sage	L	L	L	L	/	M
S	Salvia leucophylla	purple sage	L	/	L	L	/	M
S Gc	Salvia melifera	black sage	L	L	L	L	/	?
S	Salvia microphylla	salvia (microphylla)	?	M	L	M	L	L
S	Salvia munzii	San Miguel Mountain sage	?	?	VL	L	L	/
P	Salvia officinalis	garden sage	L	M	M	M	M	M
S	Salvia uliginosa	bog sage	M	M	M	?	/	/
T S	Sambucus spp.	elderberry	L	L	L	L	M	M
S P	Santolina spp.	lavender cotton	L	L	L	L	L	L
T	Sapium sebiferum	Chinese tallow tree	M	M	M	M	/	/
Gc P	Saponaria ocyroides	saponaria	L	L	M	M	/	/
S Gc	Sarcococca hookerana humilis	sweet sarcococca	M	M	M	M	M	M

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL					
			EVALUATIONS					
			1	2	3	4	5	6
S	Sarcococca ruscifolia	fragrant sarcococca	M	M	M	M	M	M
S	Sasa spp.	bamboo (Sasa)	L	L	M	M	/	M
P	Saxifraga spp.	saxifrage	M	M	M	H	H	H
P	Scabiosa spp.	pincushion flower	M	M	M	M	M	M
Gc P	Scaevola aemula 'Diamond Head'	blue wonder	L	L	M	M	/	/
Gc P	Scaevola 'Mauve Clusters'	fan flower	L	L	M	M	/	/
S	Schefflera actinophylla (see Brassia actinophylla)							
S	Schefflera arboricola	Hawaiian elf schefflera	/	/	H	H	/	H
T S	Schefflera pueckleri (Tupidanthus)	Australian umbrella tree	/	/	M	H	/	H

⊕	T	Schinus molle	California pepper tree	VL	L	VL	L	M	M
	T	Schinus polygamous	Peruvian pepper	VL	L	L	L	L	M
⊕	T	Schinus terebinthefolius	Brazilian pepper tree	M	M	M	M	/	M
	T	Schotia latifolia	forest Boer bloom	?	?	M	?	?	?
	P Gc	Sedum spp.	stone crop	L	L	L	L	L	L
	P	Sempervivum spp.	house leek	L	L	L	L	/	L
	P	Senecio cineraria	dusty miller	L	L	L	L	/	M
	S	Senecio douglasii	bush groundsel	?	?	L	L	/	M
	Gc	Senecio mandraliscae	kleinia	/	/	L	M	/	M
	T	Sequoia sempervirens	coast redwood	H	H	H	H	/	/
	T	Sequoiadendron giganteum	giant sequoia	M	M	/	M	/	/
	P	Sesleria spp.	moor grass	?	?	M	?	/	/
	P	Setcreasea pallida 'Purple Heart'	purple heart setcreasea	/	/	M	M	H	H
	S	Shepherdia argentea	silver buffaloberry	?	?	VL	VL	?	?
	P	Silene spp.	moss pink/campion	?	?	L	L	?	M
	S	Simmondsia chinensis	jojoba	VL	VL	VL	VL	L	L
	P	Sisyrinchium bellum	blue-eyed grass	VL	VL	L	L	M	M
	P	Sisyrinchium californicum	golden-eyed grass	M	M	M	M	M	M
	P	Sisyrinchium striatum	sisyrinchium (striatum)	M	?	M	?	/	/
	V	Solandra maxima	cup of gold vine	M	M	M	M	/	/
	V	Solanum jasminoides	potato vine	M	M	M	M	/	M
	V	Solanum wendlandii	Costa Rican nightshade	L	/	M	/	/	M
	Gc P	Soleirolia soleroli	baby's tears	H	H	H	H	/	H
	S Gc	Sollya heterophylla	Australian bluebell creeper	L	L	L	L	/	/
	T	Sophora japonica	Japanese pagoda tree	L	L	M	M	M	M
	T S	Sophora secundiflora	Texas mountain laurel	L	L	L	L	M	M
	T	Sorbus aucuparia	European mountain ash	/	M	/	/	M	M

	TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
				1	2	3	4	5	6
⊕ ⊕	S	Spartium junceum	Spanish broom	/	VL	VL	L	/	/
	P	Spathiphyllum spp.	spathiphyllum	/	/	H	/	/	/
	T	Spathodea campanulata	African tulip tree	/	/	M	/	/	/
	P	Sphaeralcea spp.	desert/globe mallow	L	L	L	L	/	L
	S	Spiraea spp.	spiraea	M	M	M	M	M	M
	P	Sprekelia formosissima	Aztec lily	L	L	L	L	L	L
	P	Stachys bysantina	lamb's ears	L	L	M	M	/	M
	T	Stenocarpus sinuatus	firewheel tree	/	/	M	M	/	/
	V	Stephanotis floribunda	Madagascar jasmine	/	/	M	M	/	M
	P	Stipa lepida	foothill stipa	VL	VL	L	L	L	L

	P	<i>Stipa pulchra</i>	feather grass	VL	L	VL	L	L	L
	P	<i>Stipa stipa spinosa</i>	desert bunch grass	?	?	L	L	L	L
	P	<i>Stokesia laevis</i>	stokes aster	M	M	M	M	M	M
	T	<i>Strelitzia nicolai</i>	giant bird of paradise	M	/	M	M	/	M
	S	<i>Strelitzia reginae</i>	bird of paradise	M	M	M	M	/	M
	S	<i>Streptosolen jamesonii</i>	marmalade bush	/	/	M	H	/	/
	T	<i>Styrax japonicus</i>	Japanese snowbell	M	M	/	/	M	/
	S	<i>Styrax officinalis californicus</i>	California storax	L	L	L	L	M	/
	S	<i>Syringa vulgaris</i>	lilac	M	M	/	M	M	/
	S	<i>Syzygium paniculatum</i>	Australian brush cherry	M	M	M	M	/	/
	T	<i>Tabebuia chrysotricha</i>	golden trumpet tree	?	/	M	M	/	M
	T	<i>Tabebuia impetiginosa</i>	pink/lavender trumpet tree	/	/	M	M	/	/
	S P	<i>Tagetes lemmoni</i>	mountain marigold	L	L	L	L	M	M
	P	<i>Tagetes lucida</i>	Mexican tarragon	?	M	M	M	M	M
☹ ☹	T S	<i>Tamarix</i> spp.	tamarisk	VL	VL	/	L	L	L
	T	<i>Taxodium distichum</i>	bald cypress	M	/	M	M	/	/
	T	<i>Taxodium mucronatum</i>	Montezuma cypress	M	?	M	M	/	/
	T S	<i>Taxus baccata</i>	English yew	M	M	M	M	M	/
	T S	<i>Taxus baccata</i> 'Stricta'	Irish yew	M	M	M	M	M	/
	T S	<i>Tecoma stans</i>	yellow bells	/	/	M	M	M	M
	S	<i>Tecoma</i> 'Orange Jubilee'	orange jubilee tecoma	M	M	?	?	/	M
	S V	<i>Tecomaria capensis</i>	cape honeysuckle	M	M	M	M	/	M
	S	<i>Temstroemia gymnanthera</i>	ternstroemia	M	M	M	M	M	/
	S	<i>Tetrapanax papyrifer</i>	rice paper plant	L	M	M	M	/	M
	V	<i>Tetrastigma voinieranum</i>	Javan grape	/	/	M	M	/	M
	Gc	<i>Teucrium chamaedrys</i>	germander	L	L	L	L	M	M

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
P Gc	<i>Teucrium cossonii</i>	Majorcan germander	VL	L	L	L	/	L
S	<i>Teucrium fruticans</i>	bush germander	L	L	L	L	/	M
P	<i>Thalictrum polycarpum</i>	meadow rue	M	?	M	M	M	M
T S	<i>Thevetia peruviana</i>	yellow oleander	/	/	M	M	/	M
T	<i>Thevetia thevetioides</i>	giant thevetia	/	/	M	M	/	M
S	<i>Thuja occidentalis</i>	American arborvitae	M	M	/	M	M	M
V	<i>Thunbergia grandiflora</i>	sky flower	M	/	M	/	/	M
V	<i>Thunbergia gregorii</i>	orange clock vine	M	/	M	M	/	M
GC P	<i>Thymus</i> spp.	thyme	M	M	M	M	M	M
S	<i>Tibouchina urvilleana</i>	princess flower	M	/	M	H	/	H
T	<i>Tilia americana</i>	American linden	M	M	/	/	/	/

T	<i>Tilia cordata</i>	little leaf linden	M	M	/	/	/	/
T	<i>Tipuana tipu</i>	tipu tree	M	/	M	M	/	/
Gc V	<i>Trachelospermum asiaticum</i>	Asian star jasmine	M	M	M	M	M	M
S Gc V	<i>Trachelospermum jasminoides</i>	star jasmine	M	M	M	M	M	M
T	<i>Trachycarpus fortunei</i>	windmill palm	L	M	M	M	M	/
P	<i>Tradescantia andersoniana</i>	spiderwort	M	M	M	M	M	M
S	<i>Trichocereus</i> spp.	torch cactus	?	?	L	?	L	L
S P	<i>Trichostema lanatum</i>	woolly blue curls	VL	VL	VL	L	/	M
S P	<i>Trichostema parishii</i>	mountain blue curls	?	?	VL	L	/	/
Gc	<i>Trifolium fragiferum</i> O'Connor	O'Connor's legume	M	M	M	M	M	M
	<i>Tristania conferta</i> (See <i>Lophostemon confertus</i>)							
	<i>Tristania laurina</i> (See <i>Tristaniopsis laurina</i>)							
T	<i>Tristaniopsis laurina</i>	little leaf myrtle	M	/	M	M	/	/
P	<i>Trollius</i> spp.	globeflower	?	H	M	M	H	H
P	<i>Tropaeolum majus</i>	nasturtium	M	M	/	M	/	M
P	<i>Tulbaghia fragrans</i>	sweet garlic	M	M	M	M	/	M
P	<i>Tulbaghia violacea</i>	society garlic	M	M	M	M	/	M
	<i>Tupidanthus calyptratus</i> (See <i>Schefflera pueckleri</i>)							
T	<i>Ulmus americana</i>	American elm	M	M	/	/	/	/
T	<i>Ulmus parvifolia</i>	Chinese evergreen elm	M	M	M	M	M	M
T	<i>Ulmus pumila</i>	Siberian elm	L	L	/	L	M	M
T	<i>Umbellularia californica</i>	California bay	M	M	M	M	/	/
S	<i>Vaccinium ovatum</i>	evergreen huckleberry	M	M	/	/	/	/
S	<i>Vaccinium parvifolium</i>	red huckleberry	M	M	/	/	/	/
S	<i>Vauquelinia californica</i>	Arizona rosewood	L	?	/	/	M	M

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TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
S	<i>Vequiera deltoidea</i>	golden eye	?	?	?	/	L	L
P	<i>Verbascum phoeniceum</i>	purple mullein	L	L	L	L	/	/
P	<i>Verbena bonariensis</i>	verbena (bonariensis)	VL	M	L	L	M	M
Gc P	<i>Verbena gooddingii</i>	Goodding verbena	L	L	L	L	/	M
P	<i>Verbena hybrids</i>	garden verbena	L	L	M	M	/	M
Gc P	<i>Verbena lilacina</i>	lilac verbena	?	?	L	L	/	L
Gc	<i>Verbena peruviana</i>	Peruvian verbena	L	L	L	L	/	M
Gc P	<i>Verbena rigida</i>	vervian	?	M	M	M	/	M
Gc	<i>Verbena stricta</i>	hoary vervian	L	M	M	M	M	M
Gc	<i>Verbena tenera</i> (pulchella)	rock verbena	?	?	?	M	M	M
Gc	<i>Verbena tenuisecta</i>	moss verbena	L	L	L	L	/	M
P	<i>Veronica</i> spp.	veronica	M	M	M	/	/	M

	Gc	<i>Veronica repens</i>	speedwell	M	M	M	/	/	/
	S	<i>Viburnum burkwoodii</i>	Burkwood viburnum	L	M	M	/	M	/
	S	<i>Viburnum davidii</i>	David viburnum	M	M	/	/	M	/
	S	<i>Viburnum japonicum</i>	Japanese viburnum	M	M	M	M	M	/
	S	<i>Viburnum odoratissimum</i>	sweet viburnum	L	M	M	/	M	/
	S	<i>Viburnum opulus</i>	European cranberry bush	L	M	M	M	M	/
	S	<i>Viburnum rhytidophyllum</i>	leatherleaf viburnum	M	M	M	M	M	M
	S	<i>Viburnum suspensum</i>	sadanqua viburnum	M	M	M	M	M	M
	S	<i>Viburnum tinus</i>	laurustinus	M	M	M	M	M	M
	V	<i>Vigna caracalla</i>	snail vine	M	/	M	M	/	M
	T	<i>Villebrunea pedunculata</i>	villebrunea	?	?	M	?	?	?
⊗ ⊗	Gc	<i>Vinca major</i>	periwinkle	M	M	M	M	M	M
	Gc	<i>Vinca minor</i>	periwinkle	M	M	M	M	M	M
	Gc	<i>Viola hederacea</i>	Australian violet	M	M	M	H	M	M
	Gc	<i>Viola labradorica</i>	viola	M	M	M	H	H	H
	Gc P	<i>Viola odorata</i>	sweet violet	M	M	M	H	H	H
	T	<i>Vitex agnus-castus</i>	chaste tree	L	L	L	M	M	M
	V	<i>Vitis californica</i>	California wild grape	M	M	VL	L	M	M
	V	<i>Vitis girdiana</i>	desert grape	?	M	L	L	M	M
	V	<i>Vitis labrusca</i>	American grape	L	L	M	M	M	M
	V	<i>Vitis vinifera</i>	European grape	L	L	M	M	M	M
	T	<i>Washingtonia filifera</i>	California fan palm	L	M	L	L	M	M
	T	<i>Washingtonia robusta</i>	Mexican fan palm	L	M	L	L	M	M
⊗	P	<i>Watsonia spp.</i>	watsonia	L	M	L	M	M	M

	TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
				1	2	3	4	5	6
	P Gc	<i>Wedelia trilobata</i>	trailing daisy	?	?	H	H	?	?
	S	<i>Weigela florida</i>	weigelia	M	M	M	M	M	/
	S	<i>Westringia fruticosa</i>	coast rosemary	L	L	L	L	/	M
	V	<i>Wisteria spp.</i>	wisteria	M	M	M	M	M	M
	P	<i>Woodwardia fimbriata</i>	giant chain fern	M	M	M	M	/	/
	P	<i>Woodwardia radicans</i>	European chain fern	H	/	H	H	H	H
	P	<i>Xanthorrhoea spp.</i>	grass tree	L	/	L	L	?	?
	S P	<i>Xylococcus bicolor</i>	mission manzanita	?	?	VL	L	M	/
	S	<i>Xylosma congestum</i>	shiny xylosma	L	L	M	M	M	M
	S T	<i>Yucca spp.</i>	yucca	L	L	L	L	L	L
	S	<i>Zamia pumila</i>	sago cycas	/	/	M	H	/	/
⊗	P	<i>Zantedeschia aethiopia</i>	calla	M	M	M	H	H	M
	P	<i>Zauschneria spp. (see Epilobium)</i>							

T	Zelkova serrata	saw leaf zelkova	M	M	L	M	M	M
P	Zephyranthes spp.	zephyr flower	M	M	M	M	/	/
GC P	Zinnia grandiflora	prairie zinnia	M	M	M	M	M	M
T	Ziziphus jujuba	Chinese jujube	L	L	L	M	M	M
Gc P	Zoyzia tenuifolia	Mascarene grass	M	M	M	M	M	M

COMMON NAME INDEX

COMMON NAME

Aaron's beard
Abyssinian acacia
Abyssinian banana
African plumbago
African boxwood
African daisy
African daisy
African sumac
African tulip tree
Aisian star jasmine
Alaskan fern
Albany bottlebrush
Alectryon
Aleppo pine
Algerian ivy
Alice Dupont

BOTANICAL NAME

Hypericum calcinium
Acacia abyssinica
Ensete ventricosum
Ceratostigma abyssinica
Myrsine africana
Arctotis hybrids
Osteospermum spp.
Rhus lancea
Spathodea campanulata
Trachelospermum asiaticum
Polystichum setiferrum
Callistemon speciosus
Alectryon excelsus
Pinus halepensis
Hedera canariensis
Mandevilla cv.

Almond
American arbovitae
American elm
American grape
American linden
Angel's hair
Angel's trumpet
Angel wing jasmine
Apache plume
Apple
Apricot
Argentine mesquite
Arizona ash
Arizona rosewood
Arizona sycamore
Ash leaved gum
Ashy silktassel
Atlas cedar
Australian agathis
Australian bluebell creeper
Australian brush cherry
Australian fountain palm
Australian fuchsia
Australian tea tree
Australian tree fern

Prunus spp.
Thuja occidentalis
Ulmus americana
Vitis labrusca
Tilia americana
Artemesia spp.
Brugmansia spp.
Jasminum nitidum
Fallugia paradoxa
Malus spp.
Prunus spp.
Prosopis alba
Fraxinus velutina
Vauquelinia californica
Platanus wrightii
Eucalyptus cinerea
Garrya flavescens
Cedrus atlantica
Agathis australis
Sollya heterophylla
Syzygium paniculatum
Livistona australis
Correa spp.
Leptospermum laevigatum
Cyathea cooperii

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Viola hederacea
Geijera parvifolia
Pinus nigra
Salvia greggii
Persea americana
Rhododendron spp.
Spreckelia formosissima
Babiana stricta hybrids
Coursetia axillaris
Gypsophila paniculata
Soleirolia soleroli
Acacia baileyana
Galvesia juncea
Oenothera stubbei
Calliandra californica
Dalea orcutii
Ruellia peninsularis
Taxodium distichum
Platycodon grandiflorus
Populus balsamifera
Muehlenbergia dumosa
Arundinaria spp.
Phyllostachys spp.
Sasa spp.
Musa spp.
Michelia figo
Berberis irwinii
Berberis spp.
Echinocactus spp.
Ferocactus spp.
Cuphea llavea
Erigeron glaucus
Oenothera cheiranthifolia
Pinus contorta
Nolina spp.
Acanthus mollis

Australian violet
Australian willow
Austrian black pine
Autumn sage
Avocado
Azalea
Aztec lily
Baboon flower
Baby bonnets
Baby's breath
Baby's tears
Bailey acacia
Baja bush-snapdragon
Baja evening primrose
Baja fairy duster
Baja indigo bush
Baja ruellia
Bald cypress
Balloon flower
Balsam poplar
Bamboo muhly
Bamboo
Bamboo
Banana
Banana shrub
Barberry
Barberry
Barrel cactus
Barrel cactus
Bat-faced cuphea
Beach aster
Beach evening primrose
Beach pine
Bear grass
Bear's breech

Bearded iris
Beauty berry
Beauty bush
Bee balm
Bell flower
Bell mallee
Big blue lily turf
Big leaf maple
Bird catcher tree
Bird of paradise
Bird's eye bush
Bird's nest fern
Birdsfoot trefoil
Bishop pine
Bishop's hat
Black alder
Black cottonwood
Black dalea
Black locust
Black sage
Black tea
Blackfoot daisy
Blackwood acacia
Bladder pod
Blanket flower
Bleeding heart
Blood red trumpet vine
Blue Boy/Girl Holly
Blue Dawn Flower
Blue Fescue
Blue Gum
Blue Hair Grass
Blue Hibiscus
Blue Leaf Wattle
Blue Marguerite
Blue Mist
Blue Oak
Blue Oat Grass
Blue Palo Verde
Blue Potato Bush
Blue Sage
Blue Star Creeper
Blue Wonder
Blueberry
Blueberry Creeper
Blue-eyed Grass
Bog Rosemary
Bog Sage
Bolleana Poplar
Book-leaf Mallee
Boston Ivy
Bottle Brush
Bottle Palm

Iris spp.
Callicarpa japonica
Kolkwitzia amabilis
Monarda didyma
Campanula spp.
Eucalyptus priessiana
Lirope muscari
Acer macrophyllum
Pisonia umbellifera
Strelitzia reginae
Ochna serrulata
Asplenium nidus
Lotus corniculatus
Pinus muricata
Epimedium grandiflorum
Aldus glutinosa
Populus trichocarpa
Dalea frutescens
Robinia pseudoacacia
Salvia melifera
Melaleuca lanceolata
Melampodium leucanthum
Acacia melanoxylon
Cleome isomeris
Gaillardia grandiflora
Dicentra spp.
Distictis buccinatoria
Ilex X meserveae
Ipomoea acuminata
Festuca ovina glauca
Eucalyptus globulus
Koelaria glauca
Alyogyne huegelli
Acacia saligna
Felicia amelloides
Caryopteris X clandonensis
Quercus douglasii
Helictotrichon sempervirens
Cercidum floridum
Lycianthus rantonettii
Salvia chamaedroides
Laurentia fluviatilis
Scaevola aemula 'Diamond Head'
Dianella tasmanica
Ampelopsis brevipedunculata
Sisyrinchium bellum
Andromeda polifolia
Salvia uliginosa
Populus alba 'Pyramidalis'
Eucalyptus kruseana
Parthenocissus tricuspidata
Callistemon citrinus
Beaucarnea recurvata

Bottle Tree
 Bower Vine
 Bower Wattle
 Box Elder
 Box Honeysuckle
 Box Leaf Azara
 Bracelet Honey-myrtle
 Brake Fern
 Bramble
 Brazilian Butterfly Tree
 Brazilian Pepper Tree
 Brazilian Plume Flower
 Brazilian Sky Flower
 Breath of Heaven
 Bridal Wreath
 Brisbane Box
 Brittle Bush
 Bronze Loquat
 Broom
 Broom
 Buckwheat
 Bulb Oat Grass
 Bunya- Bunya
 Burford Holly
 Burkwood Viburnum
 Burmese Plumbago
 Bush Anemone
 Bush Germander
 Bush Groundsel
 Bush Mallow
 Bush Morning Glory
 Bush Poppy
 Bushy Yate
 Butterfly Bush
 Cadaga
 Calabrian Pine
 Calico Flower
 California Bay
 California Black Oak
 California Black Walnut
 California Buckeye
 California Dutchman's Pipe
 California Encelia
 California Fan Palm
 California Fescue
 California Fuchsia
 California Holly Grape
 California Juniper
 California Lilac
 California Pepper Tree
 California Poppy
 California Scrub Oak
 California Sycamore

Brachychiton populneus
 Pandorea jasminoides
 Acacia cognata
 Acer negundo
 Lonicera nitida
 Azara microphylla
 Melaleuca armillaris
 Pteris spp.
 Rubus calycinoides
 Bauhinia forficata
 Schinus terebinthefolius
 Justicia carnea
 Duranta stenostachya
 Coleonema pulchrum
 Francoa ramosa
 Lophostemon confertus
 Encelia farinosa
 Eryobotrya deflexa
 Cytissus spp.
 Genista spp.
 Erigonum spp.
 Arrenatherum eliatum bulbosum 'Vegeta'
 Araucaria bidwillii
 Ilex cornuta 'Burfordii'
 Viburnum burkwoodii
 Ceratostigma griffithii
 Carpenteria californica
 Teucrium fruticans
 Senecio douglasii
 Malacothamnus fasciculatus
 Convolvulus cneorum
 Dendromecon spp.
 Eucalyptus lehmannii
 Buddleia davidii
 Eucalyptus torelliana
 Pinus brutia
 Aristolochia elegans
 Umbellularia californica
 Quercus kelloggii
 Juglans hindsii
 Aesculus californica
 Aristolochia californica
 Encelia californica
 Washingtonia filifera
 Festuca californica
 Epilobium spp.
 Mahonia pinnata
 Juniperus californica
 Ceanothus spp.
 Schinus molle
 Eschscholzia californica
 Quercus dumosa
 Platanus racemosa

California Storax	<i>Styrax officinalis californicus</i>
California Wild Grape	<i>Vitis californica</i>
California Wild Rose	<i>Rosa californica</i>
Calla	<i>Zantedeschia aethiopia</i>
Callery Pear	<i>Pyrus calleryana</i> cvs.
Camphor Tree	<i>Cinnamomum camphora</i>
Campion	<i>Silene</i> spp.
Canary Island Date Palm	<i>Phoenix canariensis</i>
Canary Island Pine	<i>Pinus canariensis</i>
Canary-Bird Bush	<i>Crotalaria agatiflora</i>
Canyon Live Oak	<i>Quercus crysolepis</i>
Cape Chestnut	<i>Calodendrum capense</i>
Cape Honeysuckle	<i>Tecomera capensis</i>
Cape Plumbago	<i>Plumbago auriculata</i>
Cape Reed	<i>Chondropetalum tectorum</i>
Cape Weed	<i>Arctotheca calendula</i>
Caper Bush	<i>Capparis spinosa</i>
Carnation	<i>Dianthus</i> spp.
Carob	<i>Ceratonia siliqua</i>
Carolina Jessamine	<i>Gelsemium sempervirens</i>
Carolina Laurel Cherry	<i>Prunus caroliniana</i>
Carolina Poplar	<i>Populus X canadensis</i>
Carpet Bugle	<i>Ajuga reptans</i>
Carribbean Copper Plant	<i>Euphorbia cotiniflora</i>
Carrotwood	<i>Cupaniopsis anacardioides</i>
Cascalote	<i>Caesalpinia cacalaco</i>
Cashmere Bouquet	<i>Clerodendrum bungei</i>
Cast Iron Plant	<i>Aspidistra elatior</i>
Cat's Claw	<i>Macfadyena unguis-cacti</i>
Catalina Cherry	<i>Prunus lyonii</i>
Catalina Ironwood	<i>Lyonothamnus floribunda</i>
Catclaw Acacia	<i>Acacia greggii</i>
Catmint	<i>Nepeta X faassenii</i>
Cecile Brunner Rose	<i>Rosa 'Cecile Brunner'</i>
Centennial Baccharis	<i>Baccharis 'Centennial'</i>
Chameleon Hottuynia	<i>Houttuynia cordata 'Chameleon'</i>
Chamise	<i>Adenostema fasciculatum</i>
Chamomile	<i>Chamaemelum nobile</i>
Chaparral Currant	<i>Ribes malvaceum</i>
Chaparral Honeysuckle	<i>Lonicera subspicata</i>
Chaste Tree	<i>Vitex agnus-castus</i>
Cherimoya	<i>Annona cherimola</i>
Cherry	<i>Prunus</i> spp.
Chilean Jasmine	<i>Mandevilla laxa</i>
Chilean Mesquite	<i>Prosopis chilensis</i>
Chilean Wine Palm	<i>Jubaea chilensis</i>
Chinaberry	<i>Melia azedarach</i>
Chinese Evergreen Elm	<i>Ulmus parvifolia</i>
Chinese Flame Tree	<i>Koelreuteria bipinnata</i>
Chinese Fountain Palm	<i>Livistona chinensis</i>
Chinese Fringe Tree	<i>Chionanthus retusus</i>
Chinese Ground Orchid	<i>Bletilla striata</i>
Chinese Hackberry	<i>Celtis sinensis</i>

Chinese Hibiscus	<i>Hibiscus rosa-sinensis</i>
Chinese Holly Grape	<i>Mahonia lomariifolia</i>
Chinese Jujube	<i>Ziziphus jujuba</i>
Chinese Maple	<i>Acer truncatum</i>
Chinese Pennisteam	<i>Pennisetum alopecuroides</i>
Chinese Photinia	<i>Photinia serrulata</i>
Chinese Pieris	<i>Pieris forestii</i>
Chinese Pistache	<i>Pistacia chinensis</i>
Chinese Tallow Tree	<i>Sapium sebiferum</i>
Chinese Witch Hazel	<i>Loropetalum chinense</i>
Chinquapin Oak	<i>Quercus muhlenbergii</i>
Chir Pine	<i>Pinus roxburghii</i>
Chitalpa	<i>Chitalpa tashkentensis</i>
Chocolate Scented Daisy	<i>Berlandiara lyrata</i>
Cholla	<i>Opuntia</i> spp.
Chuparosa	<i>Justicia californica</i>
Cider Gum	<i>Eucalyptus gunnii</i>
Cigar Plant	<i>Cuphea ignea</i>
Cinquefoil	<i>Potentilla fruticosa</i> cvs.
Cleveland Sage	<i>Salvia clevelandii</i>
Cliff Rose	<i>Cowania mexicana</i>
Cliff Date Palm	<i>Phoenix rupicola</i>
Climbing Hydrangea	<i>Hydrangea anomala petiolaris</i>
Climbing Roses	<i>Rosa</i> hybrids
Cluster Pine	<i>Pinus pinaster</i>
Clustered Fishtail Palm	<i>Caryota mitis</i>
Coahuilan Hesperaloe	<i>Hesperaloe funifera</i>
Coast Beefwood	<i>Casuarina stricta</i>
Coast Live Oak	<i>Quercus agrifolia</i>
Coast Redwood	<i>Sequoia sempervirens</i>
Coast Silktassel	<i>Garrya elliptica</i>
Coastal Bush Lupine	<i>Lupinus arboreus</i>
Cockspur Coral Tree	<i>Erythrina crista-galli</i>
Coffeeberry	<i>Rhamnus californica</i>
Colorado Spruce	<i>Picea pungens</i>
Columbine	<i>Aquilegia</i> spp.
Common Guava	<i>Psidium guajava</i>
Common Hackberry	<i>Celtis australis</i>
Common Heliotrope	<i>Heliotropum arborescens</i>
Common Lungwort	<i>Pulmonaria officinalis</i>
Common Witch Hazel	<i>Hamamelis virginiana</i>
Common Yarrow	<i>Achillea millefolium</i>
Cone Flower	<i>Echinacea</i> spp.
Confederate Rose	<i>Hibiscus mutabilis</i>
Coolibah	<i>Eucalyptus microtheca</i>
Coral Bells	<i>Heuchera sanguinea</i>
Coral Gum	<i>Eucalyptus torquata</i>
Coral Tree	<i>Erythrina falcata</i>
Coral Vine	<i>Antigonon leptopus</i>
Cork Oak	<i>Quercus suber</i>
Costa Rican Nightshade	<i>Solanum wendlandii</i>
Coulter Pine	<i>Pinus coulteri</i>
Coyote Brush	<i>Baccharis pilularis consanguinea</i>

Coyote Mint
Crabapple
Cranesbill
Cranesbill
Cranesbill
Cranesbill
Crape Myrtle
Creeping Coprosma
Creeping Fig
Creeping Lily Turf
Creeping Mahonia
Creeping Wire Vine
Creosote
Crown of Gold Tree
Crown of Thorns
Crown Pink
Cup Flower
Cup of Gold Vine
Cupid's Dart
Cushion Bush
Daffodil
Date Palm
Dawn Redwood
Day Lily
Deciduous Clematis
Deer Grass
Deer Weed
Deodar Cedar
Desert Bird of Paradise
Desert Broom
Desert Bunch Grass
Desert Cassia
Desert Grape
Desert Honeysuckle
Desert Ironwood
Desert Mallow
Desert Marigold
Desert Olive
Desert Spoon
Desert Sweet Acacia
Desert Willow
Digger Pine
Double Mock Orange
Douglas Iris hybrids
Dragon Tree
Dusty Miller
Dusty Miller
Dutchman's Pipe
Dwarf Coreopsis
Dwarf Coyote Brush
Dwarf Plumbago
Dwarf Poinciana
Dwarf Pomegranate

Monardella villosa
Malus spp.
Erodium chamaedryoides
Erodium chrysanthum
Geranium incanum
Geranium sanguinum
Lagerstroemia indica
Coprosma kirkii
Ficus pumila
Lirope spicata
Mahonia repens
Muehlenbeckia axillaris
Larrea tridentata
Cassia spectabilis
Euphorbia milii
Lychnis coronaria
Nierembergia hippomanica
Solandra maxima
Catananche caerulea
Calocephalus brownii
Narcissus spp.
Phoenix dactylifera
Metasequoia glyptostroboides
Hemerocallis spp.
Clematis hybrids
Muehlenbergia rigens
Lotus scoparius
Cedrus deodora
Caesalpinia gilliesii
Baccharis sarothroides
Stipa stipa spinosa
Cassia eremophila
Vitis girdiana
Anisacanthus spp.
Olneya tesota
Sphaeralcea spp.
Baileya multiradiata
Forestiera neomexicana
Dasylirion spp.
Acacia smallii
Chilopsis linearis
Pinus sabiniana
Philadelphus X virginalis
Iris spp.
Dracaena draco
Centaurea cineraria
Senecio cineraria
Aristolochia durior
Coriopsis auriculata 'Nana'
Baccharis pilularis cvs.
Ceratostigma plumbaginoides
Caesalpinia pulcherrima
Punica granatum 'Nana'

Dwarf Pittosporum
Easter Lily Vine
Eastern Black Walnut
Eastern Dogwood
Eastern Redbud
Ebbinge's Silverberry
Eldarica Pine
Elderberry
Elephant's Ear
Elephant Tree
Elphant's Food
Emu Bush
English Boxwood
English Holly
English Ivy
English Laurel
English Walnut
English Yew
Eulalia Grass
Eumong Acacia
European Beech
European Chain Fern
European Cranberry Bush
European Grape
European Hackberry
European Hornbeam
European Mountain Ash
European White Birch
Evergreen Ash
Evergreen Candy Tuft
Evergreen Clematis
Evergreen Currant
Evergreen Eulalia
Evergreen Euonymus
Evergreen Grape
Evergreen Huckleberry
Evergreen Maple
Evergreen Maple
Evergreen Mock Orange
Evergreen Pear
Evergreen Pittosporum
Evergreen Wisteria
Fairy Duster
Fairy Wand
False Cypress
False Heather
False Mallow
False Spirea
Fan Flower
Feather Bush
Feather Grass
Feather Reed
Feathery Cassia

Pittosporum tobira 'Wheeler's Dwarf'
Beaumontia grandiflora
Juglans nigra
Cornus florida
Cercis canadensis
Elaeagnus X ebbengei
Pinus eldarica
Sambucus spp.
Alocasia spp.
Pachycormis discolor
Portulacaria afra
Eremophila glabra
Busus sempervirens
Ilex aquifolium
Hedera helix
Prunus lauroceracus
Juglans regia
Taxus baccata
Miscanthus sinensis
Acacia stenophyla
Fagus sylvatica
Woodwardia radicans
Viburnum opulus
Vitis vinifera
Celtis australis
Carpinus betlulus 'Fastigiata'
Sorbus aucuparia
Betula pendula
Fraxinus uhdei
Iberis sempervirens
Clematis armandii
Ribes viburnifolium
Miscanthus transmorrisonensis
Euonymus japonica
Rhoicissus capensis
Vaccinium ovatum
Acer oblongum
Acer paxii
Philadelphus mexicanus
Pyrus kawakamii
Pittosporum crassifolium
Milletia reticulata
Calliandra eriophylla
Dierama spp.
Chamaecyperus spp.
Cuphea hyssophila
Anisodonteia scabrosa
Astilbe hybrids
Scaevola 'Mauve Clusters'
Lysiloma thornberi
Stipa pulchra
Calamagrostis spp.
Cassia artemesioides

Fern Leaf Yarrow
Fern Pine
Feverfew
Fig
Filbert
Fir
Firethorn
Firewheel Tree
Fishtail Wine Palm
Fiveleaf Akebia
Flame Tree
Flame Vine
Flannel Bush
Flax Leaf Paper Bark
Flax
Fleabane
Flooded Gum
Florist's Cyclamen
Floss Silk Tree
Flowering Cherry
Flowering Maple
Flowering Peach
Flowering Plum
Flowering Quince
Foothill Pine
Foothill Stipa
Forest Boer Bloom
Forget-Me-Not
Forman's Mallee
Fortnight Lily
Fortnight Lily
Fountain Butterfly Bush
Fountain Grass
Four O'Clock
Foxglove
Fragrant Sarcococca
Frangipani
Franklin Tree
Fraser Photinia
Fremont Silktassel
Fuchsia Flowering Gooseberry
Garden Geranium
Garden Hydrangea
Garden Monkshood
Garden Sage
Garden Verbena
Gay Feather
Geraldton Wax Flower
Germander
Giant Bird of Paradise
Giant Burmese Honeysuckle
Giant Chain Fern
Giant Lily Turf

Achillea filipendulina
Podocarpus gracillior
Chrysanthemum parthenium
Ficus carica
Corylus maxima
Abies spp.
Pyracantha spp.
Stenocarpus sinuatus
Caryota urens
Akebia quinata
Brachychiton acerifolius
Pyrostegia venusta
Fremontodendron spp.
Melaleuca linariifolia
Phormium hybrids
Erigeron karvinskianus
Eucalyptus rudis
Cyclamen persicum hybrids
Chorisia speciosa
Prunus spp.
Abuliton hybridum
Prunus spp.
Prunus spp.
Chaenomeles cvs.
Pinus sabiniana
Stipa lepida
Schotia latifolia
Myosotis scorpioides
Eucalyptus formanii
Diets vegeta
Diets bicolor
Buddleia alternifolia
Pennisetum setaceum
Mirabilis jalapa
Digitalis mertonensis
Sarcococca ruscifolia
Plumeria rubra
Franklinia alatamaha
Photinia X fraseri
Garrya fremontii
Ribes speciosum
Pelargonium hortorum
Hydrangea
Aconitum napellus
Salvia officinalis
Verbena hybrids
Liatris spicata
Chamelaucium uncinatum
Teucrium chamedrys
Strelitzia nicolai
Lonicera hildebrandiana
Woodwardia fimbriata
Ophiopogon jaburan

Giant Reed
Giant Sequoia
Giant Thevetia
Globe Mallow
Globe Thistle
Globeflower
Glory Bower
Glossy Abelia
Glossy Privet
Gold Coin
Gold Flower
Gold Medalion Tree
Golden Abundance Mahonia
Golden Chain Tree
Golden Currant
Golden Eye
Golden Fleece
Golden Foxtail
Golden Rain Tree
Golden Trumpet
Golden Trumpet Tree
Golden-eyed Grass
Goldenbush
Gooding Verbena
Granite Honey-myrtle
Grape Ivy
Grass Tree
Greek Yarrow
Green Ash
Green Carpet
Green Euryops
Green Wattle
Ground Ivy
Ground Morning Glory
Guadalupe Palm
Guajillo
Guatemalan Holly
Guinea Gold Vine
Gum Myrtle
Hairy Awn Muhly
Hall's Honeysuckle
Hammock Fern
Hardy Fishtail Wine
Harry Lauder's Walking Stick
Hawaiian Elf Schefflera
Hawaiian Snow Bush
Hawaiian Tree Fern
Hawthorne
Heartleaf Bergenia
Heath
Heavenly Bamboo
Heavenly Bamboo
Hellebore

Arundo donax
Sequoiadendron giganteum
Thevetia thevetioides
Sphaeralcea spp.
Echinops exaltus
Trollius spp.
Clerodendrum ugandense
Abelia X grandiflora
Ligustrum lucidum
Asteriscus maritimus
Hypericum moseranum
Cassia leptophylla
Mahonia 'Golden Abundance'
Laburnum X watereri
Ribes aureum
Vequiera deltoidea
Dyssodia pentachaeta
Alopecurus pratensis 'Aureus'
Koelreutaria paniculata
Allamanda cathartica
Tabebuia chrysotricha
Sisyrinchium californicum
Isocoma spp.
Verbena gooddingii
Melaleuca elliptica
Cissus rhombifolia
Xanthorrhoea spp.
Achillea ageratifolia
Fraxinus pennsylvanica 'Marshall'
Herniaria glabra
Euryops pectinatus viridis
Acacia decurrens
Glechoma hederaceae
Convolvulus mauritanicus
Brahea edulis
Acacia berlandieri
Olmedellia betschleriana
Hibbertia scandens
Angophora costata
Muehlenbergia capillaris
Lonicera japonica 'Halliana'
Blechnum occidentale
Caryota urens
Corylus avelleana contorta
Schefflera arboricola
Breynia disticha
Cibotium glaucum
Crataegus spp.
Bergenia cordifolia
Erica spp.
Nandina domestica 'Purpurea'
Nandina domestica
Helleborus spp.

Henry St. John's Wort
Hens and Chickens
Hoary Vervian
Holly Fern
Holly Leaf Cherry
Holly Leaf Osmanthus
Holly Oak
Hollyleaf Redberry
Honey Bush
Honey Locust
Honey Mesquite
Hong Kong Orchid Tree
Hopseed Bush
Horsetail
House Leek
Hybrid Brachychiton
Ice Plant
Ice Plant
Ice Plant
Ice Plant
Ice Plant
Ice Plant
Ice Plant
Incense Cedar
Indian Hawthorne
Indian Laurel Fig
Indian Mock Strawberry
Indigo Bush
Interior Live Oak
Irish Heath
Irish Moss
Irish Yew
Island Alum Root
Island Bush Snapdragon
Island Oak
Italian Alder
Italian Buckthorn
Italian Cypress
Italian Jasmine
Italian Stone Pine
Ivy Geranium
Japanese Anemone
Japanese Aralia
Japanese Ardesia
Japanese Aucuba
Japanese Boxwood
Japanese Black Pine
Japanese Blood Grass
Japanese Cryptomeria
Japanese Honeysuckle
Japanese Iris
Japanese Lace Fern
Japanese Maple

Hypericum beanii
Echeveria spp.
Verbena stricta
Cyrtonium falcatum
Prunus illicifolia
Osmanthus heterophyllus
Quercus ilex
Rhamnus crocea illicifolia
Melianthus major
Gleditsia triacanthos
Prosopis glandulosa glandulosa
Bauhinia blakeana
Dodonaea viscosa
Equisetum spp.
Sempervivum spp.
Brachychiton X hybridus
Aptenia cordifolia
Aptenia 'Red Apple'
Carpobrotus spp.
Delosperma spp.
Drosanthemum spp.
Lampranthus spp.
Maleophora spp.
Calocedrus decurrens
Rhaphiolepis spp.
Ficus microcarpa
Duchesnea indica
Dalea pulchra
Quercus wislizeni
Daboecia cantabrica
Sagina subulata
Taxus baccata 'Stricta'
Heuchera maxima
Galvesia speciosa
Quercus tomentella
Alnus cordata
Rhamnus alaternus
Cupressus sempervirens
Jasminum humile
Pinus pinea
Pelargonium peltatum
Anemone X hybrida
Fatsia japonica
Ardisia japonica
Aucuba japonica
Buxus microphylla japonica
Pinus thumbergiana
Imperata cylindrica 'Rubra'
Cryptomeria japonica
Lonicera japonica
Iris spp.
Polystichum polyblepharum
Acer palmatum

Japanese Pagoda Tree
Japanese Persimmon
Japanese Privet
Japanese Red Pine
Japanese Snowbell
Japanese Spurge
Javin Grape
Jeffrey Pine
Jelecote Pine
Jerusalem Sage
Jerusalem Thorn
Jojoba
Jungle Geranium
Juniper
Kaffir Bloom Coral Tree
Kaffir Lily
Kaffir Plum
Kahili Ginger
Kangaroo Paw
Kangaroo Treebine
Kauri
Kenilworth ivy
Kew Broom
King Palm
Kiwi
Kleinia
Knife Acacia
Knobcone Pine
Knobcone-Monterey Pine
Knotweed
Lace Fern
Lady Fern
Lady Palm
Lady Banks Rose
Lamb's Ears
Laurel Leaf Cocculus
Laurel Sumac
Laurustinus
Lavender
Lavender Beauty Berry
Lavender Cotton
Lavender Star Flower
Leather Leaf Fern
Leatherleaf Acacia
Leatherleaf Mahonia
Leatherleaf Viburnum
Lemon
Lemon Flowered Gum
Lemon Scented Gum
Lemonade Berry
Leyland Cypress
Lilac
Lilac Melaleuca

Sophora japonica
Diospyros kaki
Ligustrum japonicum
Pinus densiflora
Styrax japonicus
Pachysandra terminalis
Tetrastigma voinieranum
Pinus jeffreyi
Pinus patula
Phlomis fruticosa
Parkinsonia aculeata
Simmondsia chinensis
Ixora coccinia
Juniperis spp.
Erythrina caffra
Clivia miniata
Harpephyllum caffrum
Hedychium gardneranum
Anigozanthos flavidus
Cissus antarctica
Agathis australis
Cymbalaria muralis
Cytissus kewensis
Archontophoenix cunninghamiana
Actinidia deliciosa
Senecio mandraliscae
Acacia cultriformis
Pinus attenuata
Pinus X attenuradiata
Polygonum capitatum
Microlepidia
Athyrium filix-femina
Rhapis excelsa
Rosa banksiae
Stachys bysantina
Cocculus laurifolius
Malosma laurina
Viburnum tinus
Lavandula spp.
Callicarpa dichotoma
Santolina spp.
Grewia occidentalis
Rumohra adiantiformis
Acacia craspedocarpa
Mahonia bealii
Viburnum rhytidophyllum
Cistus spp.
Eucalyptus woodwardii
Eucalyptus citriodora
Rhus integrifolia
X Cupressocyperis leylandii
Syringa vulgaris
Melaleuca decussata

Lilac Verbena
Lilac Vine
Lily
Lily-of-the-Nile
Lily-of-the-Valley Shrub
Lily-of-the-Valley Tree
Lime
Lion's Tail
Lippia
Little Cabbage Tree
Little Leaf Cordia
Little Leaf Linden
Little Leaf Myrtle
Little Leaf Palo Verde
Little Tyler
Live Forever
Lob Lolly Bay
Locust
Lombardy Poplar
London Plane
Long Flowered Marlock
Long Leaf Yellow Wood
Loquat
Lydia Woadwaxen
Macadamia Nut
Madagascar Periwinkle
Madagascar Jasmine
Madrone
Maidenhair Fern
Maidenhair Tree
Majestic Beauty
Majorcan Germander
Maltese Cross
Manna Gum
Manzanita
Marguerite Daisy
Marina Arbutus
Marlberry
Marmalade Bush
Martha Washington Pelargonium
Mascarene Grass
Matilija Poppy
Mattress Vine
Mayten Tree
Mealy Cup Sage
Mediterranean Fan Palm
Meadow Rue
Mesa Oak
Mexican Abelia
Mexican Blue Palm
Mexican Bush Lobelia
Mexican Bush Sage
Mexican Evening Primrose

Verbena lilacena
Hardenbergia violacea
Lilium
Agapanthus africanus
Pieris japonica
Crinodendrun patagua
Cistus spp.
Leonotis leonurus
Phyla nodiflora
Cussonia paniculata
Cordia parvifolia
Tilia cordata
Tristaniopsis laurina
Cercidum microphyllum
Aristea ecklonii
Dudleya spp.
Gordonia lasianthus
Robinia X ambigua
Populus nigra 'Italica'
Platanus X acerifolia
Eucalyptus macranda
Podocarpus henkeli
Eryobotrya japonica
Genista lydia
Macadameia spp.
Catharanthus roseus
Stephanotis floribunda
Arbutus menziesii
Adiantum spp.
Ginkgo biloba
Raphiolepis 'Majestic Beauty'
Teucrium cossonii
Lychnis chalconica
Eucalyptus viminalis
Arctostaphylos
Chrysanthemum frutescens
Arbutus 'Marina'
Ardisia japonica
Streptosolen jamesonii
Pelargonium domesticum
Zoyzia tenuifolia
Romneya coulteri
Muehlenbeckia complexa
Maytenus boaria
Salvia farinacea
Chamaerops humilis
Thalictrum polycarpum
Quercus engelmannii
Abelia floribunda
Brahea armata
Lobelia laxiflora
Salvia leucantha
Oenothera berlandieri

Mexican Fan Palm
Mexican Honeysuckle
Mexican Orange
Mexican Palo Verde
Mexican Tarragon
Milk Bush
Mindinao Gum
Mint
Mirror Plant
Mission Manzanita
Mock Orange
Modesto Ash
Mohave Poplar
Mondo Grass
Moneywort
Monkey Flower
Monkey Puzzle Tree
Montbrieta
Monterey Cypress
Monterey Pine
Montezuma Cypress
Montezuma Pine
Moor Grass
Moraine Ash
Moreton Bay Chestnut
Moreton Bay Fig
Moss Pink
Moss Verbena
Moss Pink
Mother Fern
Mother-in-law's Tongue
Mountain Blue Curls
Mountain Ironwood
Mountain Marigold
Mugo Pine
Mulga
Naked Coral Tree
Naked Lady
Nasturtium
Natal Coral Tree
Natal Plum
Nectarine
Net Bush
Nevin Mahonia
New Zealand Cabbage Tree
New Zealand Cassia
New Zealand Christmas Tree
New Zealand Flax
New Zealand Laurel
New Zealand Tea Tree
Nichol's Willow Leaf Peppermint
Night Jessamine
Nikau Palm

Washingtonia robusta
Justicia spicigera
Choisia ternata
Parkinsonia aculeata
Tagetes lucida
Euphorbia tirucali
Eucalyptus deglupta
Mentha spp.
Coprosma repens
Xylococcus bicolor
Pittosporum tobira
Fraxinus velutina 'Modesto'
Populus 'Mohavensis'
Ophiopogon japonicum
Lysimachia nummularia
Mimulus spp.
Araucaria araucana
Crocrosmia hybrids
Cupressus macrocarpa
Pinus radiata
Taxodium mucronatum
Pinus montezumae
Sesleria spp.
Fraxinus 'Moraine'
Castanospermum australe
Ficus macrophylla
Silene spp.
Verbena tenuisecta
Phlox subulata
Asplenium bulbiferum
Gasteria spp.
Trichostema parishii
Cercocarpus betuloides
Tagetes lemmoni
Pinus mugo
Acacia aneura
Erythrina americana
Amaryllis belladonna
Tropaeolum majus
Erythrina humeana
Carissa spp.
Prunus spp.
Calothamnus quadrifidus
Mahonia nevinii
Cordyline australis
Cassia bicapsularis
Metrosideros excelsus
Phormium tenax
Corynocarpus laevigata
Leptospermum scoparium
Eucalyptus nicholii
Cestrum nocturnum
Rhopalostylis sapida

Nodding Pincushion
Norfolk Island Pine
Norfolk Palm
Norway Maple
Norway Spruce
O'Conner's Legume
Oakleaf Hydrangea
Obedience Plant
Ocotillo
Okinawan Holly
Old Man Cactus
Oleander
Olive
Orange
Orange Clock Vine
Orange Jessamine
Orange Jubilee Tecoma
Oregano
Oregon Ash
Oregon Alder
Oregon Grape
Organ Pipe Cactus
Oriental Arbovitae
Oriental Poppy
Ornamental Asparagus
Pacific Wax Myrtle
Pacifica Saltbush
Palm Lily
Palmetto
Palo Blanca
Palo Blanco
Pampas Grass
Paper Flower
Paperbark Maple
Paraguay Nightshade
Passion Vine
Pea Bush
Peach
Pear
Pecan
Peegee Hydrangea
Peony
Peppermint Tree
Perennial Lobelia
Periwinkle
Periwinkle
Peruvian Apple Cactus
Peruvian Lily
Peruvian Old Man Cactus
Peruvian Pepper
Peruvian Verbena
Phanera
Pigmy Date Palm

Leucospermum cordifolium
Araucaria heterophylla
Rhopalostylis baueri
Acer platanoides
Picea abies
Trifolium fragiferum O'Connor
Hydrangea quercifolia
Physostegia virginiana
Fouquieria splendens
Ilex dimorphophilla
Cephalocereus spp.
Nerium oleander
Olea europea
Citrus spp.
Thunbergia gregorii
Murraya paniculata
Tecoma 'Orange Jubilee'
Oreganum spp.
Fraxinus latifolia
Alnus oregona
Mahonia aquifolium
Lemaireocereus thurpii
Platycladus orientalis
Papaver orientale
Asparagus spp.
Myrica californica
Myoporum X 'Pacifcum'
Cordyline stricta
Sabal spp.
Lysiloma candida
Acacia willardiana
Cortaderia sellowana cvs.
Psilostrophe tagetina
Acer griseum
Lycianthus rantonettii
Passiflora spp.
Dalea pulchra
Prunus spp.
Pyrus communis
Carya illinoensis
Hydrangea paniculata 'Grandiflora'
Paeonia spp.
Agonis flexuosa
Lobelia richmondensis
Vinca minor
Vinca major
Cereus peruvianus
Alstroemeria spp.
Espositoa lantana
Schinus polygamous
Verbena peruviana
Bauhinia corymbosa
Phoenix roebelenii

Pin Oak
Pincushion Flower
Pindo Palm
Pine-leafed Bottlebrush
Pineapple Guava
Pink
Pink Abelia
Pink Jasmine
Pink Melaleuca
Pink Powder Puff
Pink Trumpet Tree
Pink Trumpet Vine
Pinyon Pine
Pipestem Clematis
Pistachio
Plantain Lily
Plum
Plume Albezia
Plume Poppy
Poinsettia
Pommegranate
Ponderosa Pine
Poor Man's Rhododendron
Portugal Laurel
Potato Vine
Poverty Weed
Prairie Flameleaf Sumac
Prairie Zinnia
Prickly Pear
Pride of Madeira
Primrose Jasmine
Primrose Tree
Princess Flower
Prostrate Acacia
Prostrate Glossy Abelia
Prune
Purple Fountain Grass
Purple Heart Secreasea
Purple Hopseed Bush
Purple Orchid Tree
Purple Orchid Vine
Purple Mullein
Purple Sage
Purple Sage
Purple Sage
Purple Winter Creeper
Quaking Grass
Queen Palm
Queen's Tears
Queen's Wreath
Queensland Bottle Tree
Queensland Kauri
Queensland Lace Bark

Quercus palustris
Scabiosa spp.
Butia capitata
Callistemon pinifolius
Feijoa sellowiana
Dianthus spp.
Abelia 'Edward Goucher'
Jasminum polyanthum
Melaleuca nesophila
Calliandra haematocephala
Tabebuia impetiginosa
Podranea ricasoliana
Pinus edulis
Clematis lasiantha
Pistacia vera
Hosta spp.
Prunus spp.
Albezia distachya
Macleaya spp.
Euphorbia pulcherrima
Punica granatum
Pinus ponderosa
Impatiens oliveri
Prunus lusitanica
Solanum jasminoides
Iva hayesiana
Rhus lanceolata
Zinnia grandiflora
Opuntia spp.
Echium fastuosum
Jasminum mesnyi
Lagunaria patersonii
Tibuchina urvilleana
Acacia redolens
Abelia grandiflora prostrata
Prunus spp.
Pennisetum setaceum 'Cupreum'
Setcreasea pallida 'Purple Heart'
Dodonaea viscosa 'Purpurea'
Bauhinia variegata
Mascagnia lilacina
Verbascum phoeniceum
Leucophyllum spp.
Salvia dorrii
Salvia leucophylla
Euonymus fortunei
Briza media
Arecastrum romanzoffianum
Billbergia spp.
Petrea volubilis
Brachychiton rupestris
Agathis robusta
Brachychiton discolor

Queensland Pittosporum
Queensland Umbrella Tree
Rama Parada
Raywood Ash
Red Bauhinia
Red Birch
Red Cap Gum
Red Centered Hibiscus
Red Cestrum
Red Flowering Currant
Red Flowering Gum
Red Gum
Red Horsechestnut
Red Hot Poker
Red Huckleberry
Red Iron Bark
Red Oak
Red Shanks
Red Valerian
Red Yucca
Redberry
Redtwig Dogwood
Red-veined Enkianthus
Ribbon Grass
Ribbonwood
Rice Paper Plant
Richmond Begonia
River Birch
River She-Oak
Rock Verbena
Rockcress
Rockrose
Rose
Rose Champion
Rose of Sharon
Rosemary
Round Leaf Mint Bush
Roxburgh Fig
Royal Climber
Royal Trumpet Vine
Rubber Plant
Russell Lupine
Russian Olive
Russian Sage
Rusty Leaf Fig
S. California Black Walnut
Sadanqua Viburnum
Sagebrush
Sago Cycas
Sago Palm
Saguaro
Salal
Salt River Mallet

Pittosporum rhombifolium
Brassaia actinophylla
Ruellia californica
Fraxinus oxycarpa 'Raywood'
Bauhinia punctata
Betula nigra
Eucalyptus erythrocorys
Alyogyne hakeifolia
Cestrum elegans
Ribes sanguineum
Eucalyptus ficifolia
Eucalyptus camaldulensis
Aesculus carnea
Kniphofia uvaria
Vaccinium parvifolium
Eucalyptus sideroxylon
Quercus rubra
Adenostema sparsifolium
Centranthus ruber
Hesperaloe parvifolia
Rhamnus crocea
Cornus stolonifera
Enkianthus campanulatus
Phalaris spp.
Adenostema sparsifolium
Tetrapanax papyrifer
Begonia 'Richmondensis'
Betula nigra
Casuarina cunninghamiana
Verbena tenera
Arabis spp.
Cistus spp.
Rosa hybrids
Lychnis coronaria
Hibiscus syriacus
Rosmarinus officinalis
Prostanthera rotundifolia
Ficus auriculata
Oxera pulchella
Distictis 'Rivers'
Ficus elastica
Lupinus (Russell hybrids)
Elaeagnus angustifolia
Perovskia spp.
Ficus rubiginosa
Juglans californica
Viburnum suspensum
Artemesia spp.
Zamia pumila
Cycas revoluta
Carnegiea gigantea
Gaultheria shallon
Eucalyptus sargentii

Saltbush
San Diego Mountain Mahogany
San Miguel Mountain Sage
Sandwort
Sasanqua Camellia
Saucer Magnolia
Saw Leaf Zelkova
Saxifrage
Scarlet Oak
Scarlet Red Maple
Scotch Heather
Scotch Moss
Scotch Pine
Screwbean Mesquite
Sea Oats
Sea Pink
Sea Urchin Tree
Sedge
Self Heal
Senegal Date Palm
Sentry Palm
Serbian Bell Flower
Shasta Daisy
Shell Ginger
Sherwood Dwarf Abelia
Shield Fern
Shiny Xylosma
Shoestring Acacia
Showy Banksia
Showy Jasmine
Shrimp Plant
Shrub Aster
Shrub Daisy
Shrubby Cassia
Shumard Red Oak
Siberian Elm
Sierra Sun Drop
Silk Oak
Silk Tree
Silver Buffaloberry
Silver Button Plant
Silver Cassia
Silver Dollar Gum
Silver Dollar Tree
Silver Gimlet
Silver Lace Vine
Silver Lupine
Silver Maple
Silver Mountain Gum
Silver Spear
Silver Tree
Silver Wattle
Silverberry

Atriplex spp.
Cercocarpus minutiflorus
Salvia munzii
Arenaria montana
Camellia sasanqua
Magnolia soulangiana
Zelkova serrata
Saxifraga spp.
Quercus coccinea
Acer rubrum
Calluna vulgaris
Sagina subulata 'Aurea'
Pinus sylvestris
Prosopis pubescens
Chasmanthium latifolium
Armeria maritima
Hakea laurina
Carex spp.
Prunella spp.
Phoenix reclinata
Howea forsterana
Campanula poscharskyana
Chrysanthemum maximum
Alpinea zerumbet
Abelia 'Sherwoodii'
Polystichum munitum
Xylosma congestum
Acacia stenophylla
Banksia speciosa
Jasminum floridum
Justicia brandegeana
Felicia fruticosa
Euryops pectinatus
Cassia wizlizeni
Quercus shumardii
Ulmus pumila
Calyophus hartwegii
Grevillea robusta
Albezia julibrissin
Shepherdia argentea
Cotula lineariloba
Cassia phyllodenia
Eucalyptus polyanthemos
Eucalyptus cinerea
Eucalyptus campaspe
Polygonum aubertii
Lupinus albifrons
Acer saccharinum
Eucalyptus pulverulenta
Astelia nervosa chathamica
Leucodendron argenteum
Acacia dealbata
Eleagnus pungens

Single Leaf Pinyon Pine
Sissoo
Sky Flower
Sky Flower
Small Flowered Clematis
Smoke Tree
Smoke Tree
Smooth Arizona Cypress
Snail Vine
Snapdragon Vine
Snow in Summer
Society Garlic
Sonora Cercidium
Sonoran Justicia
Sonoran Palo Verde
Sour Gum
South African Jasmine
South African Mallow
South Coast Myoporum
Southern Live Oak
Southern Magnolia
Southern Sword Fern
Southwest Redbud
Spanish Fir
Spanish Iris
Spanish Broom
Spear Lily
Speedwell
Spider Lily
Spiderwort
Spotted Emu Bush
Spotted Gum
Spring Cinquefoil
Spring Star Flower
Squaw Bush
Squirrel's Foot Fern
St. Johnswort
Staghorn Sumac
Stalked Bulbine
Star Jasmine
Star Lily
Star Magnolia
Statice
Stickle Broom
Stokes Aster
Stone Crop
Straw Flower
Strawberry Guava
Strawberry Snowball
Strawberry Tree
Sturt's Cassia
Sugar Bush
Sugar Gum

Pinus monophylla
Dalbergia sissoo
Duranta repens
Thunbergia grandiflora
Clematis pauciflora
Cotinus coggygia
Dalea spinosa
Cupressus arizonica var. *glabra*
Vigna caracalla
Maurandya antirrhiniflora
Cerastium tomentosum
Tuhbaghia violacea
Cercidum 'Sonorae'
Justicia sonorea
Cercidum praecox
Nyssa sylvatica
Jasminum angulare
Anisodonteia X hypomandarum
Myoporum 'South Coast'
Quercus virginiana
Magnolia grandiflora
Nephrolepis cordifolia
Cercis reniformis
Abies pinsapo
Iris spp.
Spartium junceum
Doryanthes palmeri
Veronica repens
Crinum spp.
Tradescantia andersoniana
Eremophila maculata
Eucalyptus macranda
Potentilla tabernaemontanii
Iphion uniflorum
Rhus trilobata
Davallia trichomanoides
Hypericum 'Hidecote'
Rhus typhina
Bulbine frutescens
Trachelospermum jasminoides
Arthropodium cirrhatum
Magnolia stellata
Limonium perezii
Gutterrezia sarothrae
Stokesia laevis
Sedum spp.
Plecostachys serpyllifolia
Psidium cattleianum
Dombeya cacuminum
Arbutus unedo
Cassia sturtii
Rhus ovata
Eucalyptus cladocalyx

Sugar Maple
Summer Holly
Summer Snow
Sunrose
Swamp Mahogany
Swamp Mallee
Swan River Daisy
Sweedish Ivy
Sweet Acacia
Sweet Bay
Sweet Flag
Sweet Hakea
Sweet Garlic
Sweet Gum
Sweet Olive
Sweet Pea Shrub
Sweet Sarcococca
Sweet Shade
Sweet Viburnum
Sweet Violet
Sweet Woodruff
Sword Fern
Sydney Golden Wattle
Sykes Coral Tree
Tamarisk
Tanbark Oak
Tarata
Tarragon
Tasmanian Tree Fern
Tawhiwhi
Tecate Cypress
Tenaza
Texas Ebony
Texas Firecracker Bush
Texas Mountain Laurel
Texas Olive
Texas Red Oak
Texas Sage
Thread Leaf False Aralia
Threadleaf Coreopsis
Thyme
Tipu Tree
Titoki
Toadflax
Toog
Torch Cactus
Torrey Pine
Totem Poles
Toyon
Trailing Indigo Bush
Trailing Rosemary
Transvaal Daisy
Tree Banksia

Acer saccharum
Comarostaphylis diversifolia
Plumbago scandens
Helianthemum nummularium
Eucalyptus robusta
Eucalyptus spathulata
Brachycome multifida
Plectranthus spp.
Acacia farnesiana
Laurus nobilis
Acorus gramineus
Hakea suaveolens
Tulbaghia fragrans
Liquidambar styraciflua
Osmanthus fragrans
Polygala X dalmatisiana
Sarcococca hookerana humilis
Hymenosporum flavum
Viburnum davidii
Viola odorata
Gallium odoratum
Nephrolepis exaltata
Acacia longifolia
Erythrina sykesii
Tamarix spp.
Lithocarpus densiflorus
Pittosporum eugenioides
Artemesia spp.
Dicksonia antarctica
Pittosporum tenuifolium
Cupressus guadalupensis forbsii
Pithecellobium palens
Pithecellobium flexicaule
Hamelia patens
Sophora secundiflora
Cordia boissieri
Quercus texana
Salvia coccinia
Dizygotheca elegantissima
Coreopsis verticilata cvs.
Thymus spp.
Tipuana tipu
Alectryon excelsus
Linaria purpurea
Bischofia javanica
Trichocereus spp.
Pinus torreyana
Melaleuca decussata
Heteromeles parvifolia
Dalea greggii
Rosmarinus 'Prostratus'
Gerbera jamesonii
Banksia integrifolia

Tree Dahlia
Tree of Heaven
Tree Malow
Triangle Palm
Trident Maple
Trinidad Flame Bush
True Myrtle
Trumpet Creepers
Trumpet Honeysuckle
Tufted Evening Primrose
Tufted Hair Grass
Tulip Tree
Tulip Wood
Tupelo
Turpentine Bush
Tweedia
Twinspur
Twisted Acacia
Umbrella Plant
Valley Oak
Vancouver Gold Genista
Velvet Centauria
Velvet Honeysuckle
Velvet Mesquite
Verde Vista Coprosma
Vervian
Victorian Box
Vine Maple
Violet Trumpet Vine
Virginia Creeper
Wall Flower
Wallflower
Water Birch
Weeping Acacia
Weeping Bottlebrush
Weeping Chinese Banyan
Western Catalpa
Western Dogwood
Western Hazelnut
Western Poplar
Western Redbud
Western Spice Bush
Western Virgin's Bower
White Alder
White Ash
White Barked Himalayan Birch
White Breath of Heaven
White Bursage
White Floss Silk Tree
White Flowering Currant
White Ginger Lily
White Mulberry
White Ironbark

Dahlia imperialis
Ailanthus altissima
Lavatera assurgentiflora
Neodypsis decaryi
Acer buergeranum
Calliandra tweedii
Myrtus communis
Campsis spp.
Lonicera sempervirens
Oenothera caespitosa
Deschampsia caespitosa
Liriodendron tulipifera
Harpullia arborea
Nyssa sylvatica
Ericameria laricifolia
Oxypetalum caeruleum
Diascia spp.
Acacia schaffneri
Cyperis alternifolius
Quercus lobata
Genista pilosa
Centaurea gymnocarpa
Dicleptera suberecta
Prosopis veletina
Coprosma pumila 'Verde Vista'
Verbena rigida
Pittosporum undulatum
Acer circinatum
Clytostoma callistigioides
Parthenocissus quinquefolia
Cherianthus cheiri
Erysimum linifolium
Betula fontinalis
Acacia pendula
Callistemon viminalis
Ficus benjamina
Catalpa speciosa
Cornus nuttallii
Corylus cornuta californica
Populus fremontii
Cercis occidentalis
Calycanthus occidentalis
Clematis ligusticifolia
Alnus rhombifolia
Fraxinus americana
Betula jacquemontii
Coleonema album
Ambrosia dumosa
Chorisia insignis
Ribes indecorum
Hedychium coronarium
Morus alba
Eucalyptus leucoxyton

White Sage
White Sapote
Whitethorn Acacia
Wild Ginger
Wild Rye
Wild Strawberry
Willow
Willow Acacia
Willow Pittosporum
Wilson Holly
Windmill Palm
Winter Blooming Bergenia
Winter Creeper
Winter Daphne
Wonga Wonga Vine
Wood Fern
Wooly Blue Curls
Wooly Butterfly Bush
Wooly Senna
Wooly Yarrow
Yaupon
Yellow Archangel
Yellow Bells
Yellow Oleander
Yellow Orchid Vine
Yellow Pennstemmon
Yellow Trumpet Vine
Yellow Yucca
Yesterday, Today and Tomorrow
Yew Pine
York Gum
Zephyr Flower

Salvia apiana
Casimiroa edulis
Acacia constricta
Asarum caudatum
Elymus spp.
Fragaria chiloensis
Salix spp.
Acacia salicina
Pittosporum phillyraeoides
Ilex X altaclarensis 'Wilsonii'
Trachycarpus fortunei
Bergenia crassifolia
Euonymus fortunei radicans
Daphne odora
Pandorea pandorana
Dryopteris erythrosora
Trichostema lanatum
Buddleia marrubiifolia
Cassia tomentosa
Achillea tomentosa
Ilex vomitoria
Lamium galeobdolon
Tecoma stans
Thevetia peruviana
Mascagnia macroptera
Keckiella cordifolia
Anemopaegma chamberlaynii
Hesperaloe parvifolia
Brunfelsia pauciflora
Podocarpus macrophyllus
Eucalyptus loxophleba
Zephyranthes spp.

VEGETATION TYPES

The species list includes over 1,200 species of landscape plants which are identified by botanical and common names. The plants are listed alphabetically according to botanical names. An index of common names follows the species list.

Each species falls into one or more of the following vegetation types: Trees, Shrubs, Groundcovers, Vines and Perennials (includes ferns, grasses and bulbs). Vegetation types are entered on the list for each plant under **TYPE** as:

T....Tree

S....Shrub

V....Vine

Gc...Groundcover

P....Perennial

CULTIVARS

Cultivars, with a few exceptions, are not mentioned. It is presumed that most cultivars will have the same water requirements as the species. Exceptions include the following : 1) Nandina domestica, the cultivar 'Purpurea' was included because it was thought to require more water than the species in three regions and 2) Lonicera japonica 'Halliana' was included because the cultivar was thought to be more common than the species.

TURFGRASSES

Turfgrass water needs are not included in this guide. Literature and software relevant to turfgrass species are listed in Appendix 3 **ADDITIONAL RESOURCES**.

WUCOLS REGIONS

Since there are substantially different climate zones in California, six regions representing different climatic conditions were identified by the coordinating committee:

Region 1 **North-Central Coastal** (California Climate Zones 14, 15, 16, and 17)*

Region 2 **Central Valley** (zones 8, 9 and 14),

Region 3 **South Coastal** (zones 22, 23 and 24),

Region 4 **South Inland Valleys and Foothills** (zones 18, 19, 20 and 21),

Region 5 **High and Intermediate Desert** (zone 11) and

Region 6 **Low Desert** (zone 13).

* California climate zones are described in University of California Publication 3328, Generalized Plant Climate Zones of California and Sunset Western Garden Book.

NOTES ON REGIONS

- Within each WUCOLS Region there is some variability in climate patterns among the cities listed. For example, some cities may be considerably warmer than others during the summer months, yet they are within the same region. This variability can only be reduced by increasing the number of regions, which would cause the WUCOLS list to become enlarged and somewhat more complicated.

For certain locations (considered atypical for the region), it may be useful to consider evaluations from another region that more closely characterizes the location of interest. For example, if a city in Region 1 has a climate more closely characterized by Region 2, then Region 2 species evaluations should be considered for that location. Such assessments will need to be based on the judgement of the user.

- If a city is not listed and is located in California Climate Zone 14 which overlaps regions 1 and 2, it will be necessary to decide if the city is more similar in climate to Petaluma (coastal influence) or Sacramento Valley.
- If a city is located in a California Climate Zone which was not evaluated (zones 1, 2, 3, and 7 - mainly high elevation, cold winter areas) an estimate may be made by looking at all the evaluations for the species in question. Hardiness is typically the major factor in determining if a species is appropriate or not.
- The main difference between the California high and intermediate desert regions is that the high desert is colder in the winter; as the elevation increases so does the frequency of temperatures below freezing. As a result, species which are listed as appropriate for

the low desert and inappropriate for the high desert may be marginally hardy and appropriate to try in the intermediate desert.

The following is a list of some cities that characterize each region:

WUCOLS REGIONS

REGION 1	REGION 2	REGION 3
NORTH-CENTRAL COASTAL	CENTRAL VALLEY	SOUTH COASTAL
Concord Cupertino Healdsburg Livermore Los Altos Hills Napa Novato Oakland Petaluma Salinas San Francisco San Jose San Luis Obispo Santa Cruz Santa Rosa	Auburn Bakersfield Chico Coalinga Fresno Los Banos Marysville Merced Modesto Red Bluff Redding Roseville Sacramento Stockton Tracy Visalia	Anaheim Camarillo Fallbrook Fullerton Irvine Laguna Beach La Mesa Long Beach Los Angeles Mission Viejo Oxnard Santa Ana San Barbara San Diego San Juan Capistrano Santa Monica Ventura Vista Whittier
REGION 4	REGION 5	REGION 6
SOUTH INLAND VALLEY	INTERMEDIATE AND HIGH DESERT	LOW DESERT
Altadena Azusa Chino Corona Covina El Monte Escondido Hemet Ojai Pasadena Perris Pomona Ramona	Apple Valley Barstow Bishop Boulder City China Lake Gorman Independence Joshua Tree Lancaster Lone Pine Mojave Olancho Palmdale	Borrego Springs Blythe Brawley Coachella Desert Center Desert Hot Springs Death Valley El Centro Indian Wells Indio Jacumba Needles Palm Desert

Riverside
San Bernardino
San Fernando
Santa Paula
Sun City
Thousand Oaks
Van Nuys

Pear Blossom
Tehachapi
Victorville

Palm Springs
Rancho Mirage
Thermal

STANDARD CONDITIONS

The following conditions were applied to all species when the evaluations were made. Please note that adjustments in water needs may be required for other conditions, such as new plantings or a need for rapid growth.

- 1) Established Plants. Irrigation water needs are assessed for plants that have become "established" in the landscape. "Established" meaning that substantial root development has occurred in the landscape soil adjacent to the rootball. The landscape soil becomes the principal source of water for established plants i.e., rather than the rootball soil. The time for establishment varies among species and with soil conditions, but generally occurs by the second or third year after planting. After establishment, roots of trees, shrubs, groundcovers, etc., become intertwined in the soil, creating a common rootzone.
- 2) Reference ET Conditions. Reference evapotranspiration (ET_0) approximates water loss from a large field of 4 to 7 inch tall, cool season grass that is not water stressed. Although ET_0 can be measured directly, it is usually calculated from measured weather data. Daily ET_0 information for many regions of the state is available through the California Irrigation Management Information System (CIMIS). WUCOLS evaluations are made for site conditions equivalent to those used for ET_0 measurements, i.e., full sun, no extraordinary winds, no shading from nearby structures or plants, and no heat inputs from nearby sources such as buildings, pavements, or reflective surfaces. As an exception, shade requiring species (e.g., Japanese aucuba) are evaluated for shade conditions. Shade species are considered to be those plants which when exposed to full sun for some part of the day will show visible injury i.e., some loss in appearance. Since species vary in their shade requirements (for example, all day vs afternoon shade), any species requiring some shade to avoid injury (in the region) is evaluated for shade.
- 3) Good Quality. Plant performance can vary substantially depending on the amount of water supplied. Small amounts may simply prevent the dehydration of plant tissues i.e., survival amounts, but appearance is likely to be affected. Increasing amounts may improve appearance (leaf color, canopy density or fullness), but may

not be enough to promote growth. More water may be sufficient to maintain good appearance and support typical (average) growth for the species (and flower or fruit production if desired). Still more water may result in excessive growth; while more water may cause decline (typically from root disease) in certain species. Since both appearance and some growth (not excessive) are important in most landscapes, WUCOLS evaluations were made to provide sufficient water for the species to be maintained as such, i.e., in good condition. This is somewhat difficult to evaluate precisely for some species, however, so whenever a question was raised as to whether a species required a greater or lesser amount of water to maintain good quality, the higher evaluation, i.e., more water was assigned.

- 4) Groundwater Not Available. Although some species of plants develop root systems deep enough to extract groundwater (e.g., Quercus lobata), groundwater is not available in all planting sites. A species capable of extracting groundwater may not be able to do so because the water is simply not available. Therefore, evaluations are made for conditions where the only sources of water were rainfall and irrigation. In areas where groundwater is available and a species is known to utilize groundwater, then adjustments in irrigation scheduling should be made for that species (or group of species).
- 5) Plants Must be "Irrigatable". In some cases the soil surface may be sealed around plants (particularly trees) by pavements or other surface barriers. This inhibits the infiltration of water into the rootzone. In other cases the soil volume capable of holding water may be so small and may dry so rapidly that it may be difficult to maintain available water in the rootzone. In either case, the amount of water identified as being needed to maintain good quality may not be sufficient simply because the plant is not "irrigatable". Evaluations made here assume as a standard condition that the species can be irrigated, i.e., the water applied can enter and be held in the rootzone sufficiently long for uptake.

CATEGORIES OF WATER NEEDS

Water needs evaluations are listed for each species and in each region. Symbols are defined as follows:

- H = High
- M = Moderate
- L = Low
- VL = Very Low
- / = Not appropriate or not grown in the region
- ? = No experience growing it in the region by the members of this committee. This does not imply it should not be tried. Consult local horticulturists and literature for more information.

The categories High, Moderate, and Low indicate how much irrigation water is thought to be needed to maintain plant health and appearance, and are expressed as a percentage of reference evapotranspiration (ET_o). See **Standard Conditions** (page 70) for a definition of ET_o .

H = 70 - 90% ET_o

M = 40 - 60% ET_o

L = 10 - 30% ET_o

L = <10% ET_o

The Moderate category, for example, suggests that all the plants in this category can be maintained in good condition if they are irrigated at 40-60% of reference evapotranspiration (ET_o) for the location and when the standard conditions are applied. See **Species Factor** (below) and **How to Calculate Landscape Water Needs** (page 75) to determine how much water to apply.

EXAMPLES :

Evaluations for Acer macrophyllum are as follows:

Regions 1 and 3.....M (moderate)..irrigate at 40-60% of ET_o .

Regions 2 and 4.....H (high).....irrigate at 70-90% of ET_o .

Regions 5 and 6..... / (not appropriate)

Evaluations for Acacia smallii are as follows:

Regions 1 and 2.....? (committee members uncertain about irrigation requirements)

Region 3.....VL (very low).. little or no irrigation needed

Regions 4 and 6.....L (low).....irrigate at 10-30% of ET_o .

Region 5..... / (not appropriate)

NOTE: It will be helpful to look at all the evaluations for each species, (i.e., for all six regions) to get a general assessment of irrigation water needs. If there is variation among regions for a species, looking at all evaluations for the species can be a guide to selecting an irrigation level at the high or low end of the category's range.

SPECIES FACTORS

Species are classified as high (H), moderate (M), low (L), or very low (VL) in irrigation water needs. Each classification corresponds to a species factor (k_s) range (a numerical value) which is expressed as a percentage of reference evapotranspiration (ET_o). Species factors are used with ET_o values to quantify water needs for a species (see **How to Calculate Landscape Water Needs** (page 75). Since precise k_s values cannot be assigned (these need to be determined from field experiments), species were assigned to k_s ranges. Each classification category (H,M,L,VL) corresponds to a specific k_s range as follows:

High (H): k_s range = 0.7 - 0.9

Species evaluated as high (H) are suggested to need between 70 and 90% of ET_o (reference evapotranspiration) to be maintained in good condition in the region of interest.

Moderate (M): k_s range = 0.4 - 0.6

Species evaluated as moderate (M) are suggested to need between 40 and 60% of ET_o to be maintained in good condition in the region of interest.

Low (L): k_s range = 0.1 - 0.3

Species evaluated as low (L) are suggested to need between 10 and 30% of ET_o to be maintained in good condition in the region of interest.

Very Low (VL): k_s less than 0.1

Species evaluated as very low (VL) are suggested to need less than 10% of ET_o to be maintained in good condition in the region of interest.

The k_s ranges assigned here are extrapolated from values determined for related agricultural crops (e.g., citrus, walnuts, and cherries) and certain landscape species (Pittenger, 1990 and Hartin, 1991).

Species factor (k_s) ranges allow users to select specific k_s values based on their observations and experience. For instance, a species evaluated here to be moderate is suggested to need between 40 and 60% of ET_o . Some users may decide (based on their experience) that the species can be maintained well at the lower end of the range and use 40%. Others may determine that more water is needed and use 50 or 60%. In some cases a user may decide that the species can be maintained well in a "medium-low" category and use 35%. The WUCOLS categories presented here assume that the user will use some judgement in assigning specific k_s values to particular species, i.e., based on knowledge of the species. If the user has little or no experience with the species, then midrange values are suggested (e.g., 50% of ET_o) for the moderate category.

It is important to note that the species factor (k_s) is not the only factor to consider in estimating landscape water needs. Evaluations of microclimate and planting density also need to be made. The following section describes how to estimate total water needs using species, microclimate and density factors. In addition, irrigation system efficiency losses need to be included in total applied water estimates. See **How to Calculate Landscape Water Needs** (page 75).

HOW TO CALCULATE LANDSCAPE WATER NEEDS

The species factor (k_s) is one of three factors used to determine landscape water needs.

A microclimate factor (k_{mc}) and planting density factor (k_d) also need to be included in water needs estimates. The three factors are used in the following relationship to generate a landscape coefficient (K_L):

Landscape coefficient = species factor x microclimate factor x density factor

$$K_L = k_s \times k_{mc} \times k_d$$

The derivation of this equation and numeric values for k_{mc} and k_d are described in UC Leaflet 21493.

The landscape coefficient is a functional equivalent of the crop coefficient used for estimating water needs for turfgrass and agricultural crops.

Using species factor ranges from the WUCOLS list, an estimate of water needs can be made. For example, selecting a groundcover species from the moderate category (e.g., Pelargonium peltatum), the k_s range would be 0.4 to 0.6. If no adjustments are needed for density or microclimate ($k_d = 1.0$ and $k_{mc} = 1.0$), then the landscape coefficient (K_L) is calculated as follows:

$$K_L = k_s \times k_d \times k_{mc}$$

Using a midrange k_s value of 0.5,

$$K_L = 0.5 \times 1.0 \times 1.0$$

$$K_L = 0.5$$

Now, to determine how much irrigation water is needed, the relationship $ET_L = K_L \times ET_o$ is used, where ET_L is the estimated water need of the planting and ET_o is reference evapotranspiration. If the planting is in San Diego, for instance, and the water needs for the month of July are sought, then the following calculations are made:

ET_o for July in San Diego = 4.6 inches (approx.) (see **APPENDIX 1** Table 1)

$$K_L = 0.5$$

$$ET_L = K_L \times ET_o$$

$$ET_L = 0.5 \times 4.6 \text{ inches} = 2.3 \text{ inches}$$

Therefore, it is estimated that 2.3 inches of irrigation water are needed to maintain this groundcover in good condition in San Diego for the month of July.

To determine the total gallons needed for the planting, then the area of the planting (square feet) and a conversion factor* are included as follows:

For a 1,000 ft² planting:

Gallons of water needed =

$$\begin{aligned} &ET_L \times \text{area} \times 0.62^* \text{ gallons/ft}^2 - \text{in.} \\ &= 2.3 \text{ inches} \times 1,000 \text{ ft}^2 \times 0.62 \text{ gallons/ft}^2 - \text{in.} \\ &= \underline{1,426 \text{ gallons}} \end{aligned}$$

If a k_s of 0.4 was used, then the following amount of water would be needed,

$$\begin{aligned} K_L &= k_s \times k_d \times k_{mc} \\ K_L &= 0.4 \times 1.0 \times 1.0 \\ K_L &= 0.4 \end{aligned}$$

$$\begin{aligned} ET_L &= K_L \times ET_- \\ &= 0.4 \times 4.6 \text{ inches} \\ &= 1.84 \text{ inches} \end{aligned}$$

$$\text{Gallons needed for } 1,000 \text{ ft}^2 = 1.84 \times 1,000 \times 0.62$$

*CONVERSION FACTOR

$$= \underline{1,140 \text{ gallons}}$$

"Acre-ft." is a commonly used unit for water volume. This is the amount of water contained in a volume that is one acre (43,560 ft.²) in area and is one foot (12") in depth. It equals 325,850 gallons. Since landscapes are frequently less than an acre in size, it is more convenient to use units for smaller volumes, such as a square foot - inch (ft.²-in). This is the amount of water contained in a one square foot area by one inch deep. This can be calculated to be 0.62 gals./ft.²-in. as follows:

1 acre-foot = 325,850 gals.
 1 acre = 43,560 ft.
 1 ft. = 12 in.

Therefore, there are 325,850 gallons of water in a volume that is 43,560 ft.² x 12 in.

or, 325,850 gals./43,560 ft.² x 12 in.
 = 325,850 gals./522,720 ft.² - in.
 = 0.62 gals/ft.² - in.

Therefore, there are 0.62 gallons of water in a volume that is one ft.² in area by one inch deep.

Irrigation managers will need to determine whether the planting needs the lesser (1,140 gals) or the greater (1,426 gals) amount of water in July to maintain good health and appearance. Perhaps even a higher k_s value (0.6) is appropriate for the planting, generating a higher estimate of water needs. Regardless of the k_s value selected, it needs to be emphasized that these are estimates of water needs. They are not absolute determinations of water needs. They are estimates intended to give irrigation managers an approximation of the amount of water to apply. Adjustments to estimated amounts will likely need to be made in the field.

NOTE: For species typically planted only in the shade, use a "high range" k_s value. For example, for a "moderate" species (k_s range of 0.4 to 0.6) use the 0.6 value. This will compensate for the microclimate factor (k_{mc}) adjustment used for shaded areas when calculating the landscape coefficient (K_L). Otherwise, shade will be compensated for twice, in the k_s factor and in the k_{mc} factor.

HOW TO ADJUST FOR IRRIGATION EFFICIENCY LOSSES

In addition to water needed to meet plant needs, water also needs to be applied to account for system efficiency losses. This amount is added to the estimated needs of the planting. The following formula can be used to determine total water needs:

$$\text{Total water applied (TWA)} = \frac{\text{plant needs (ET}_L\text{)}}{\text{irrigation efficiency(IE)}}$$

For example, if the plant needs are estimated to be 2.0 inches, and the irrigation efficiency is 75%, then the total water applied is:

$$\text{TWA} = \frac{\text{ET}_L}{\text{IE}}$$

$$\text{TWA} = \frac{2.0 \text{ inches}}{0.75}$$

$$\text{TWA} = 2.66 \text{ inches}$$

System efficiency may vary considerably. Efficiency evaluations should be made to determine the appropriate IE value to use.

PUTTING IT ALL TOGETHER

Estimating water needs, converting units and factoring in irrigation efficiency can be a little confusing. To help reduce the confusion, a **WORKSHEET** which follows will lead you through the calculations step by step. If you use the worksheet, you should be able to put the information all together and come up with a reasonable estimate of water needs for a landscape planting of interest.

Landscape water management software is also available. See **APPENDIX 3 ADDITIONAL RESOURCES; BOOKS, PAPERS, SOFTWARE.**

WORKSHEET

ESTIMATING LANDSCAPE WATER NEEDS

OBJECTIVE: To determine the amount of water needed to maintain landscape plants in one irrigation zone in good health and appearance for a designated period of time.

Units: gallons/unit area/unit time

NOTE: This is an estimate. Refinement of the estimate will likely be needed in the field.

A: Calculate ET_L (Landscape Evapotranspiration)
 $ET_L = K_L \times ET_O$

K_L = Landscape Coefficient
 ET_O = Reference Evapotranspiration

(1) $ET_O = \frac{\quad}{(1)}$ inches/month (see ET_O values listed for location and month of interest in APPENDIX 1)

(2) $K_L = k_s \times k_{mc} \times k_d$
 k_s = species factor
 k_{mc} = microclimate factor
 k_d = density factor

- (a) $k_s = \frac{\quad}{(a)}$ (0.1 - 0.9) (see WUCOLS SPECIES EVALUATION LIST)
 (b) $k_{mc} = \frac{\quad}{(b)}$ (0.5 - 1.4) (average = 1.0) (See UC Leaflet 21493 Estimating Water Requirements)
 (c) $k_d = \frac{\quad}{(c)}$ (0.5 - 1.3) (average = 1.0) " "

(2) $K_L = \frac{\quad}{(a)} \times \frac{\quad}{(b)} \times \frac{\quad}{(c)} \times = \frac{\quad}{(2)}$

(3) $ET_L = \frac{\quad}{(2)} \times \frac{\quad}{(1)} \times = \frac{\quad}{(3)}$ inches/month

B: Calculate TWA (Total Water Applied)

$TWA = \frac{ET_L}{IE}$ $ET_L = \text{LANDSCAPE EVAPOTRANSPIRATION}$
 $IE = \text{IRRIGATION EFFICIENCY}$

$ET_L = \frac{\quad}{(3)}$ inches/month (from PART A)

(4) $IE = \frac{\quad}{(4)}$ (measured or estimated)

(5) $TWA = \frac{\quad(3)}{(4)} = \frac{\quad}{(5)}$ inches/month

C: CONVERT INCHES PER MONTH TO GALLONS PER UNIT AREA PER MONTH

$TWA \text{ (gallons/area/mo)} = TWA \text{ (in/mo)} \times \text{IRRIGATED AREA (ft}^2) \times \text{CONVERSION FACTOR}$

$TWA = \frac{\quad}{(5)}$ inches/month (from PART B)

(6) IRRIGATED AREA = $\frac{\quad}{(6)}$ ft² (measured)

(7) CONVERSION FACTOR 0.62 gallons/ft² - in

1 ACRE - ft. H₂O = 325,850 gallons
 1 ft² - in H₂O = 0.62 gallons

(8) $TWA \text{ (gallons/area/mo)} = \frac{\quad}{(5)} \times \frac{\quad}{(6)} \times \frac{\quad}{(7)}$
 $= \frac{\quad}{(8)}$ gallons/area/month

INVASIVE SPECIES

Certain species, if grown adjacent to wildland areas, have the ability to "invade" native habitats to the detriment of the native species. Others cause problems in managed landscapes. Species of both types are listed here. It is incumbent on landscape architects, designers and managers to learn which plants are considered to be invasive, and use appropriate caution in their use.

Invasive species are indicated on the list by ☹ or ☹ ☹

EXAMPLES:

- ☹ ☹ Arundo donax Considered an important wildland weed (can displace native species in natural communities in one or more regions).
- ☹ Acacia decurrens Considered a wildland weed of secondary importance or are potentially invasive, or species which are limited to one region, landscaped areas or roadsides.
- ☹ ☹ Genista spp. **NOT ALL** Genista species are considered invasive. Refer to NOTES ON INVASIVE SPECIES for information about Genista monspessulana, French broom.

NOTES ON INVASIVE SPECIES

Acacia baileyana - mainly near habitations
Acacia dealbata - Northern coastal to southern inland regions
Acacia decurrens - Northern coastal
Acacia longifolia - Minor threat along coast
Acacia melanoxylon - Northern coastal and inland to southern coastal
Achillea millefolium - Coastal and inland areas in moist places
Ailanthus altissima - Urban and natural areas around the world
Albizia distachya - Coastal areas
Aptenia cordifolia 'Red Apple' - Coastal zones, mainly southern
Arctotheca calendula - Northern and southern coastal bluffs, foothills
Arundo donax - All regions in moist areas, seasonal water courses
Atriplex glauca - Southern coastal foothills
Altriplex semibaccata - Coastal to inland areas
Briza media - Grasslands
Carpobrotus edulis - Coastal and inland regional throughout California
Carpobrotus chilensis - "

Centranthus ruber - Coastal, inland and foothill regions throughout California
Coprosma repens - Only coastal
Cordyline australis - Only coastal
Cortaderia sellowana - Coastal regions, dunes, scrub and Monterey pine forest
Cotoneaster spp. - Disturbed sites, many communities, central and northern coast
Crataegus monogyna - Central and northern coast
Cupressus macrocarpa - Northern coastal

Cytisus canariensis - Foothill regions, northern California and Central Valley
Cytisus racemosus - Foothill regions, northern California and Central Valley
Cytisus scoparius - Coastal scrub, oak woodland
Delosperma spp. - Potential threat on coast
Duchesnia indica - "
Echium fastuosum - Coastal
Eucalyptus camaldulensis - Southern coastal canyons and foothills
Eucalyptus globulus - Coastal canyons and foothills, riparian areas
Eucalyptus pulverulenta - Southern coastal
Ficus carica - Central Valley riparian woodlands
Genista monspessulanus - Coastal scrub, oak woodland
Hedera canariensis - Coastal and inland regions in moist and shady places
Hedera helix - Coastal and inland regions in moist and shady places
Ilex aquifolium - Coastal forests
Limonium perezii - Southern coastal beaches and bluffs
Lonicera japonica 'Halliana' - Coastal and inland regions; moist, shady places
Lotus corniculatus - Roadside weed
Lupinus arboreus - North coast dunes
Myoporum laetum - Northern and southern coastal foothills
Myosotis spp. - Coastal forests
Nereum oleander - Riparian areas
Olea europaea - Southern coastal and inland foothills
Pennisetum setaceum - All dry climate regions, grasslands, desert canyons
Phyla nodiflora - Wet places, vernal pools
Pinus pinaster - Sparingly naturalized central coast
Pinus pinea - "
Pinus radiata - Central and northern coastal
Pyracantha spp. - Central coastal
Robinia pseudoacacia - Northern valleys and foothills to southern mountains and foothills
Schinus mole - Coastal canyons and foothills statewide
Schinus terebinthifolius - Coastal lowlands, wet places
Spartium junceum - Coastal scrub, oak woodlands
Tamarix chinensis - Coastal through desert riparian areas, other spp. also weeds
Tropaeolum majus - Moist coastal regions
Vinca major - Riparian areas, oak woodland, mostly coastal

Watsonia bulbifera - North coast
Watsonia marginata - "
Zantedeschia aethiopica - Coastal streams

OTHER IMPORTANT INFORMATION ABOUT THE GUIDE

- VARIATION IN REGIONAL EVALUATIONS

Variation in species evaluations among regions occurs in many cases.

Two patterns of variation are found:

1) where the variation ranges from less water needed in cooler climates to more in warmer ones, and 2) where less water is required in warmer climates than in cooler ones. The following examples are typical cases:

Case one: Laurus nobilis, sweet bay

	1	2	3	4	5	6
	L	L	L	L	M	M

This is the most common variation. It merely indicates that certain species were thought to require more water in warmer climates.

Case two: Gleditsia triacanthos, honey locust

	1	2	3	4	5	6
	L	L	M	L	L	L

When a warmer region indicates a lower water requirement than a cooler one. This case reflects differences of observation and experience among the regional committees.

Zauchneria spp., California fuchsia

	1	2	3	4	5	6
	L	L	VL	L	/	M

This example shows both cases. Sometimes, for certain California natives and other

drought tolerant species, there was agreement that the plant would grow with little or no irrigation, but opinions varied as to how well it would perform in a managed landscape under those conditions.

- DROUGHT STRESS/INSECT ATTACK RELATIONSHIPS

Although some species perform well with little or no irrigation water, their susceptibility to insect attack and injury may increase with water stress. For example, many Eucalyptus species perform well in non-irrigated conditions in many parts of California. When drought stressed, however, they become susceptible to attack and injury from the Eucalyptus long-horned borer. This is the case as well for Monterey pine (California five-spined engraver beetle) and white alder (Flatheaded borer). For these species, evaluations were made with consideration given to water stress and pest interactions. For example, although Eucalyptus globulus will perform well in regions 3 and 4 with little summer water, it was assigned to the "moderate" category to minimize its susceptibility to borer injury.

- SHADE

Most species were evaluated for full sun conditions. See **Standard Conditions** (page 70). Light intensity and duration varies with seasons, microclimates and proximity to the coast, however. Many species which can be grown in full sun in coastal locations require a measure of shade in inland areas. Others require some shade in all locations. Here, each species was evaluated for the conditions which would produce best appearance and flowering or fruit production for the region. Because of the lack of a standard method for identifying species shade requirements, however, plants needing shade are not noted on the list. Consult horticultural literature for more information on species light requirements.

- WINTER IRRIGATION

Although deciduous species are not typically irrigated in the winter months, there may be some need to do so in desert regions. Some evergreen species may also need winter irrigation during drought years or in desert climates.

- FRUIT/FLOWER PRODUCTION

Where fruit or flower production is an important consideration in planting/specifying a species, (e.g., citrus, pomegranate, or bougainvillea), then the evaluation was made for an irrigation level that would meet this need.

- REVEGETATION SPECIES

Species selected for revegetation sites should be limited to those which are well

adapted to the location and do not require irrigation after establishment. Species used principally for revegetation sites (i.e., not typically used in irrigated landscapes such as mule fat and poison oak) are not included here.

LIMITATIONS OF THE LIST

This list is limited in a number of ways:

- 1) it is subjective, i.e., it is based largely on field observations rather than scientific data. As such, evaluations are not definitive and may change as more information becomes available.
- 2) it is a partial list - not all landscape species are included. It is a large list which includes most plants available from California nurseries, but it does not include all plants. Additions to the list are expected as new species are introduced or less common species are evaluated.
- 3) not all regions of California are included in the evaluations. Extrapolations may be possible from a region evaluated to one that is not.

ADDITIONS

Additions to the list can be made. Submit species names to:

**WUCOLS PROJECT
625 Miramontes, Ste. 200
Half Moon Bay, California 94019**

Submitted names will be sent out for evaluation by committee members and additions will be made on a periodic basis.

COPIES OF THE WUCOLS REPORT

Additional copies of this report can be obtained from:

Marsha Prillwitz
Department of Water Resources
1020 Ninth Street
P.O. Box 942836
Sacramento, CA 94236-0001
(916) 327-1620

APPENDIX 1 TABLE 1

Calculation of species water needs for July for several locations in California. Listed are historical ET_o values for July and three categories of water needs. Select the appropriate location and water need category. Look down the column to find the estimated water need. This was calculated by multiplying ET_o x water need category (0.1 - 0.9)

Estimated species water needs (inches per month)*

	ET _o	LOW			MEDIUM			HIGH		
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
NORTH CENTRAL COASTAL										
Novato	5.9	0.5	1.1	1.7	2.3	2.9	3.5	4.1	4.7	5.3
San Francisco	4.9	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4
Concord	7.0	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3
San Jose	6.5	0.6	1.3	1.9	2.6	3.2	3.9	4.5	5.2	5.8
Monterey	4.3	0.4	0.8	1.2	1.7	2.1	2.5	3.0	3.4	3.8
San Luis Obispo	4.6	0.4	0.9	1.3	1.8	2.3	2.7	3.2	3.6	4.1
CENTRAL VALLEY										
Auburn	8.3	0.8	1.6	2.4	3.3	4.1	4.9	5.8	6.6	7.4
Sacramento	8.4	0.8	1.6	2.5	3.3	4.2	5.0	5.8	6.7	7.5
Modesto/Stockton	8.1	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2
Fresno	8.4	0.8	1.6	2.5	3.3	4.2	5.0	5.8	6.7	7.5
Bakersfield/Redding	8.5	0.8	1.7	2.5	3.4	4.2	5.1	5.9	6.8	7.6
SOUTH COASTAL										
Santa Barbara	5.5	0.5	1.1	1.6	2.2	2.7	3.3	3.8	4.4	4.9

Ventura	5.5	0.5 1.1 1.6	2.2 2.7 3.3	3.8 4.4 4.9
Los Angeles	6.6	0.6 1.3 1.9	2.6 3.3 3.9	4.6 5.2 5.7
Laguna Beach	4.9	0.4 0.9 1.4	1.9 2.4 2.9	3.4 3.9 4.4
San Diego	4.6	0.4 0.9 1.3	1.8 2.3 2.7	3.2 3.6 4.1

SOUTH INLAND VALLEY

San Fernando	7.3	0.7 1.2 2.1	2.9 3.6 4.3	5.1 5.8 6.5
Pasadena	7.1	0.7 1.4 2.1	2.8 3.5 4.2	4.9 5.6 6.3
Riverside	7.9	0.7 1.5 2.3	3.1 3.9 4.7	5.5 6.3 7.1
Ramona	7.3	0.7 1.2 2.1	2.9 3.6 4.3	5.1 5.8 6.5
San Bernadino	7.9	0.7 1.5 2.3	3.1 3.9 4.7	5.5 6.3 7.1

HIGH DESERT

Palmdale	9.9	0.9 1.9 2.9	3.9 4.9 5.9	6.9 7.9 8.9
Lancaster	11.0	1.1 2.2 3.3	4.4 5.5 6.6	7.7 8.8 9.9
Victorville	11.2	1.1 2.2 3.3	4.4 5.6 6.7	7.8 8.9 10.0
Bishop	7.4	0.7 1.4 2.2	2.9 3.7 4.4	5.1 5.9 6.6
Independence	9.8	0.9 1.9 2.9	3.9 4.9 5.8	6.8 7.8 8.8

LOW DESERT

Palm Springs	11.6	1.1 2.3 3.4	4.6 5.8 6.9	8.1 9.2 10.4
Coachella	12.3	1.2 2.4 3.6	4.9 6.1 7.3	8.6 9.8 11.0
Needles	12.8	1.2 2.5 3.8	5.1 6.4 7.6	8.9 10.2 11.51
El Centro	11.6	1.1 2.2 3.4	4.5 5.7 6.8	7.9 9.1 10.2

*Example: For Los Angeles in July, the historical $ET_o = 6.6$ inches. For a planting in the medium category (0.4 - 0.6), the estimated water need ranges from 2.6 to 3.9 inches.

Please note: these values are not adjusted for irrigation efficiency.

APPENDIX 2

GLOSSARY

Acre-foot

The amount of water which covers an acre (43,560 ft.²) to the depth of one foot (12 inches). One acre-foot equals 325,850 gallons.

CIMIS

California Irrigation and Management Information System. A network of weather stations located around the state which collects reference evapotranspiration data. The network is managed by the California Department of Water Resources.

Conversion Factor (0.62 gallons/ft²-inch)

Used to convert water volume from inches per unit area to gallons per unit area. There are 0.62 gallons in a square foot-inch.

Vegetation Density

An evaluation of vegetation surface area per unit volume taking into consideration factors

such as tree canopy cover and tiers of vegetation.

Density Factor (k_d)

One of three factors used to generate a landscape coefficient. Adjusts the landscape coefficient to account for the effect of vegetation density on water loss from a hydrozone.

ET

Evapotranspiration. The sum of water losses through evaporation (E) from the soil and transpiration (T) from the plant.

ET_o

Reference Evapotranspiration. The approximation of water loss from a field of 4 to 7 inch tall cool season grass that is not water stressed. ET_o is measured at CIMIS weather stations in various locations around the state.

ET_L

Estimated water needs of the landscape. Calculated by multiplying the landscape coefficient (K_L) by Reference Evapotranspiration (ET_o).

Hydrozone

A portion of a landscaped area having plants with similar water needs that are served by one irrigation valve or set of valves with the same schedule.

Irrigation Efficiency

A measure of the portion of the total applied irrigation water beneficially used (primarily to satisfy plant water needs). Losses (non-beneficial water use) include unused runoff and evaporation from wet soil surfaces.

Landscape Coefficient (K_L)

The functional equivalent of the crop coefficient. Used for estimating water needs from landscape plantings. Landscape coefficient = species factor x microclimate factor x density factor.

Microclimates

Areas having different environmental conditions within a climatic zone.

Microclimate Factor (k_{mc})

One of three factors used to generate a landscape coefficient. Adjusts the landscape coefficient to account for the effect of microclimate on water loss from a hydrozone.

Species Factor (k_L)

One of three factors used to generate a landscape coefficient. Adjusts the landscape coefficient to account for water loss from a hydrozone due to the plant species

composition.

Square foot-inch

The amount of water which covers one square foot of area to the depth of one inch. One square foot-inch equals 0.62 gallons.

TWA

Total water applied. An estimate of the total amount of water to apply to a landscape planting. Calculated by dividing ET_L (estimated water needs of the planting) by IE (irrigation efficiency).

WUCOLS

Water Use Classification of Landscape Species. A Guide to the Water Needs of Landscape Plants.

APPENDIX 3

ADDITIONAL RESOURCES

BOOKS, PAPERS, SOFTWARE

Cal Poly Irrigation Training and Research Center, Landscape Water Manager, (irrigation management software) California Polytechnic State University, San Luis Obispo, Ca.*

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* References added to 1994 revision.

OTHER RESOURCES

California Department of Water Resources
Water Conservation Office
1020 Ninth Street P.O.Box 942836
Sacramento, California 94236-0001
(916) 327-1620

California Irrigation Management Information System (CIMIS)
California Department of Water Resources
Division of Local Assistance
P.O. Box 942836
Sacramento, California 94236-0001

California State Department of Water Resources Information (800) 272-8869

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