

## Example Landscape Maintenance Specifications for a Water and Resource Efficient Landscape

The following landscape maintenance specifications were designed for a real world homeowner association and have been implemented on the site.

**Use these typical specifications as an example only.** When combined with site specific numbers, the specifications offer the opportunity to establish high quality customer service and receive payment for those important services. It may be appropriate to enlist the assistance of a specialized water manager to evaluate irrigation systems, develop preventative irrigation system maintenance programs and set irrigation schedules.

This is a specifications example only. It should be understood that the weather, soils, plant materials and other specific site features may require careful analysis of maintenance schedules, fertilization and irrigation for optimum plant health.

These specifications are intended to show how to take information from this book and case studies and apply them to specifications for bidding and contract development. The intent of these model specifications are to: (1) develop specifications that help meet the need to maintain landscapes within a water budget; (2) upgrade industry standards and receive payment for more sophisticated work; (3) provide a road map for contractors and customers to set goals, measure the site efforts and keep costs in line for both parties.

### Section One—Water Efficient Specification

#### Table of Contents

##### I. Introduction

- 1.01 Project Concepts
- 1.02 Site Map
- 1.03 Irrigation Station and Hydrozone Map
- 1.04 Site Plant List
- 1.05 Emergency Phone Numbers

##### II. General Requirements

- 2.01 Protection of Existing Structures and Property
- 2.02 Safety
- 2.03 Owners Representative Liaison
- 2.04 Maintenance Schedule/Inspection Schedule
- 2.05 Contractor Supervision
- 2.06 Extra Work
- 2.07 Plant Material Replacement
- 2.08 Pesticide Regulations
- 2.09 Fertilizer Regulations
- 2.10 Weed Control
- 2.11 Soil Analysis
- 2.12 Method of Payment
- 2.13 Penalty Charges
- 2.14 Licensing
- 2.15 Insurance
- 2.16 Notice of Cancellation

### **III. Scope of Work**

- 3.01 Soil Management Program
- 3.02 Water Management Program
- 3.03 Turf Management Program
- 3.04 Shrub Management Program
- 3.05 Groundcover Management Program
- 3.06 Tree Management Program
- 3.07 Green Waste Program
- 3.08 Mulching Program
- 3.09 Integrated Management Program

## **Section Two—Water Efficient Specification**

### **I. Introduction**

#### **1.01 Project Concepts**

Contractor, responsible for the maintenance of the landscape areas, seeks to provide an attractive, colorful and resource efficient landscape for the benefit of the Customer.

The Customer expects a high standard of horticultural service to maintain the landscape. These standards are detailed in the Landscape Maintenance Specifications. The specifications include the use of an integrated management program of soil, water, irrigation system, fertilization and pest management that optimizes plant health, resource efficiency and, therefore, cost-effectiveness for the site and the Customer.

#### **1.02 Site Map**

A site map will be provided and shared between the Customer and Contractor. The map shall reflect general plant palette, plant associations (i.e. hydrozones), streets and addresses. Copies of the map shall be on file with the Customer and Contractor, and will be used to identify locations of work to be performed, locate problems, etc.

#### **1.03 Irrigation Map**

A map describing the existing irrigation system including location of meters, valves, controllers, quick couplers and the types (brands) of irrigation equipment utilized on the site.

#### **1.04 Site Plant List**

A list of all existing plants will be included and on file with the Customer and Contractor. The list is to be used as a reference for plant replacements, to identify plants that do not meet the standards of the association and to help determine potential plants to add to the site when appropriate.

#### **1.05 Emergency Phone Numbers**

All phone numbers, including those of the Customer and Contractor, shall be listed, including numbers for 24 hour emergency service.

## **Section Three—Water Efficient Specification**

### **II. General Requirements**

#### **2.01 Protection of Existing Structures and Property**

Contractor shall take proper precautions when working on-site to protect any and all association structures, infrastructure and utilities. Any damages to association structures will be reported immediately to the customer's Representative. Any damages caused by Contractor action shall be corrected and/or paid for by the Contractor at no cost to the Customer.

## **2.02 Safety**

Contractor shall adhere to all state, federal and local requirements related to the safe completion of all work. Contractor safety includes the use of safety gear, traffic control and vehicle safety.

## **2.03 Customer**

The Customer shall have authority to call meetings, with a 24 hour advance notice, for purposes of discussing site issues, performance and needs. Contractor shall provide reports, as designated in the scope of work, to the Customer.

## **2.04 Maintenance Schedule/Inspection Schedule**

Contractor shall provide service to the association with time to be negotiated. The hours spent on site to be determined by the scope of work desired by the Customer. The Customer and Contractor shall participate in monthly site review/inspections.

## **2.05 Contractor Supervision**

Contractor shall provide qualified on-site supervision to insure high quality work and provide accurate reports.

## **2.06 Extra Work**

Work determined to be beyond the tasks listed in the scope of work shall be "extra" work.

Extra work will be planned, estimated and proposed to the Customer for authorization before performing the work ("extra" work should be designated and clearly understood at the initiation of the contract.)

## **2.07 Plant Material Replacement**

Plant materials may require replacement for safety, aesthetics or because of damages. All replacement plant materials shall be in keeping with the association plant list, or approved substitutions. Color plants will need periodic or seasonal replacement and renewal.

## **2.08 Pesticide Regulations**

All chemicals shall be used in strict accordance with federal, state, county and local laws and regulations. Any use of chemicals shall be reported to the Customer and applied by trained and licensed pest control operators. It is the intent of the association to maintain a healthy, sustainable landscape that will minimize the need for and use of chemical controls. An Integrated Pest Management Program (IPM) and biological controls will be utilized as much as possible for the site (\*design an IPM approach for your specific situation).

## **2.09 Fertilizer Regulations**

Contractor shall adhere to the fertilizer programs described in the scope of work. The intent is to use the minimum amount of fertilizers necessary to produce a healthy and attractive landscape. Contractor shall take soil samples in a variety of hydrozones and locations to determine the actual need for soil/plant nutrients before applying fertilizer. The frequency of fertilization is set by the results of the soil sampling.

## **2.10 Weed Control**

Contractor is responsible for keeping all areas free of weeds. Contractor is required to keep weeds controlled by (1) the use of organic mulches on the soil surface, (2) manual labor, and (3) chemical controls, in that order.

## **2.11 Soil Analysis**

Contractor shall perform a soil fertility test at least twice per year or before major fertilization, as designated in the scope of work. The primary goal is to apply fertilizer only if the soil is found to be without adequate nutrients for plant vigor. The intent is to reduce overall fertilizer application to keep salt build-up potential low, to minimize excessive plant growth that requires more maintenance time, water and fertilization.

## 2.12 Method of Payment

(insert appropriate data)

## 2.13 Water Penalty Charges

*(For future use in areas where water budgets are established by the water purveyor.)*

Water penalty charges are to be the responsibility of the Contractor. Only those water penalties accrued due to over-water-use behavior (i.e. water management, not leaks, vandalism or malfunctioning irrigation equipment) will count toward Contractor responsibility. With a 100% ET water budget allocation, it is assumed that the site landscape can maintain health and meet water use goals. An inefficient irrigation system must be recognized as a major barrier to meeting water budget allocations. (Bonuses could be awarded to the Contractor, at the discretion of the Customer, for meeting water budgets or using less water than the site water budget allocation suggests.)

## 2.14 Licensing

Contractor shall maintain a valid C-27 license from the State of California. Contractor shall also hold appropriate Pest Control Operators and chemical application licensing/certification or provide services of same as part of this contract.

## 2.15 Insurance

Contractor shall provide proof of insurance and adhere to the following limits of liability: (Use appropriate numbers as per customer requirements, such as: Worker's Compensation, statutory limits; Automobile Collision, \$1 million; Comprehensive General Liability, \$1 million).

## 2.16 Notice of Cancellation

The landscape maintenance contract is subject to 30 day written notice of cancellation by either party.

# Section Four—Water Efficient Specification

## III. Scope of Work

The scope of work contained herein establishes a standard of landscape care for the Customer. The scope is specifically intended to produce an attractive, healthy and cost effective landscape. Contractor shall furnish all labor, equipment, materials, tools and specific skills required to perform the scope of work set forth in the maintenance specifications.

### 3.01 Soil Management Program

**Soils Analysis:** Contractor shall provide a soil fertility test at least twice per year, or before major fertilization, (example: March, October) for help to determine proper fertilization needs.

**Soil Probe Analysis:** The site supervisor and site personnel shall utilize a hand soil probe to physically determine soil moisture levels in various planting zones. The soil probe analysis is to be used (along with water meter readings and irrigation scheduling software) to monitor and adjust site irrigation schedules, to find wet or dry stations as well as to observe plant root depth and development.

### 3.02 Water Management Program

The water management program is intended to maximize plant health, minimize water damages to association hardscape and property, and eliminate any over-water use.

1. Contractor shall consistently maintain all components of the irrigation system in proper working order, as per manufacturers specifications, by inspecting the entire system on an ongoing basis.
2. Drip lines and spray heads shall be randomly checked on an ongoing basis such that the entire system is checked each month. Malfunctioning systems will be corrected immediately. Methods of detection include: visual sightings of water on association hardscape and property, soil probing, meter monitoring and specific line observations.

3. Irrigation controllers and irrigation scheduling shall be performed regularly as weather changes (ET), plant needs and water budget allocations (100% ET) to avoid water penalty charges. Rescheduling may be required as frequently as on a weekly basis depending on weather conditions.
4. Irrigation system pressure shall be checked and adjusted at least monthly to insure efficient operation of irrigation stations.
5. All irrigation replacement parts shall be as original installation or approved equals.
6. Turf spray heads shall be uniform in output and kept adjusted for accurate throw. If the irrigation is not adequate to provide uniform coverage and ability to meet water budgets, the Customer agrees to upgrade the system to achieve site efficiency.
7. Contractor shall list and report all irrigation system damages to the Customer with the cost estimate of repair/replacement.
8. Contractor shall track and provide to the customer an irrigation scheduling log that tracks the amount of water applied to various site hydrozones. The Contractor may choose to use irrigation scheduling and monitoring software of their choice to determine water schedules.
9. The water budget allocation for the association grounds is 100% of actual weather (ET or evapotranspiration) multiplied by the site acreage. Based on the water needs of the majority of plant materials and the use of efficient irrigation systems, it is assumed that water use can and will consistently fall below the 100% ET allocation. Appropriate water management will produce a healthier landscape and save significant costs.
10. For weather based irrigation scheduling, Contractor shall use software that will track and report water applications on a station by station basis and that can compare actual water use to local ET.
11. Irrigation scheduling will be performed to encourage deep roots, including deep watering through use of multiple repeat cycles. Soil probing shall be used to determine soil moisture depth, overall moisture levels and the need to adjust irrigation schedules. Soils will be allowed to dry to a 50% moisture depletion level between irrigations in order to avoid root-rot and allow adequate air to be present in the soil.
12. Irrigation scheduling will be coordinated with all other maintenance activities, including mowing, aeration and fertilization.

### **3.03 Turf Management Program**

The goal of the turf management program is to maximize plant health, deepen turf roots, water as per local ET and reduce the frequency of fertilization, mowing, dump fees and water run-off.

1. Mowing cycles may vary from 5 days (early Spring through Summer) to 10 days (late Fall through Winter) between cuttings. Varied mowing cycles are derived from Best Management Practice's for healthy turf and seasonal growth habits of cool season grasses.
2. Contractor shall use grasscycling (the use of mulching mowers to keep grass clippings on-site) as the preferred method of turf clipping disposal. (Grasscycling adds nutrients to soil and reduces labor time, transportation and dump fees.) Grasscycling need not be used when turf growth is considered too high (as after rain and mowing delays). To insure attractive and effective use of grasscycling, mow no more than 1/3 of turf height at any mowing.
3. Turf areas shall be edged as needed to maintain appearance. Turf spray nozzles shall be of a height to clear the highest unmowed turf growth height. (see 3.02, 6.)
4. Aerification shall be performed in turf areas to promote deep rooting, water penetration and to avoid soil compaction. Aerification shall be performed as per the following schedule: early Spring (March/April), early Summer (June) and early Fall (mid September to early October). Turf aerification shall be accompanied by complimentary cultural practices (i.e. top dressing with organic material and deep watering schedules) to insure the highest quality turf appearance and water efficiency. Cultural practices in combination with aerification and schedules are as follows:  
Day 1 – irrigate turf normally

Day 2 – mow grass normally

Day 3 – aerify at least to 3 inch depth {deeper if possible with equipment and soil type}

Day 4 – add organic top dressing and fertilizer to turf, water normally

5. Turf fertilizers shall be applied within the range of 3-4 lb. per 1000 sq.ft. of actual Nitrogen per year, 3 lb. of Potassium per 1000 sq.ft. per year, 3 lb. of Iron per 1000 sq.ft. per year for cool season grass if and when soils tests suggest. (The goal is to reduce Nitrogen applied to turf in order to moderate growth and keep water needs down. This can be accomplished through the use of organic based and slow release fertilizers that contain Iron to maintain deep green color. See 3.03, 7.)
6. Aerification amendment is designed to (1) improve soil quality in turf areas, (2) allow deeper water penetration, (3) allow deeper turf root growth, (4) reduce water applications for turf, and (5) gradually reduce fertilizer applications for turf. The amendment shall be added to all turf areas using the above schedule. The amendment type and amount shall approximate the following directions: screened compost, such as Aguinaga Turf Plus, at 150 - 200 lb. per 1000 sq.ft. {use of amendment can be reduced over time as top dressing adds nutrients to the soil}.

### 3.04 Shrub Management Program

The goal of the shrub program is to develop a lush, natural appearance, promote flowering and keep pruning and trimming to a minimum for cost-effectiveness for the Customer.

1. Pruning shall be done on an as needed basis only. The intent of this style of pruning is to maintain the natural plant appearance. Shrubs are intended to fill planting spaces as much as possible. Shrubs on slopes are not to be pruned or shaped, but are to be allowed to spread naturally.
2. Shearing back of shrub stems and branches is not encouraged unless the plant poses a safety hazard, or unless directed by the Customer.
3. Shrub irrigation will approximate WUCOLS (Appendix V) water use recommendations for typical shrub species, generally 50% of local ET.
4. Shrub fertilization shall be performed using slow release, complete organic based products in April and October, or as indicated by the soil test results. Spot fertilization may be applied to color plants to encourage flowering.
5. All vines shall be kept “pinned” to fences or walls to maximize hardscape cover and provide green appearance.
6. Shrub list with specific actions included: **Example Only!!!**
  - Agapanthus** – remove dead flower stalks shortly after flowers fade
  - Calliandra** – keep pinned to walls and fences, let spread to cover as much area as possible
  - Daylily** – cut dead flower stalks after bloom cycle ends, clean out old leaves monthly
  - Liriope** – no trimming needed, old leaves will periodically need removal
  - Moraea** – cut spent flower stalks after blooming, keep tip burn controlled as much as possible by (1) using Chelated Iron, and leaf trimming as needed
  - Nandina** – no pruning needed
  - Rahpipolesis** – no pruning required unless plant spreads out of planting space and causes a nuisance
  - Sword Fern** – no pruning necessary, may require thinning, intended to fill dark planting spaces
  - Trumpet vine** – keep pinned to walls and fences, let spread to cover as much area as possible

### 3.05 Groundcover Management Program

The site groundcovers are intended to fill large common space areas, provide significant color, present a lush appearance.

1. All groundcover areas shall be uniformly irrigated to insure consistent growth and plant coverage.
2. Groundcover areas shall be kept free of weeds and grasses.
3. Irrigation will approximate WUCOLS recommendation levels for the species.
4. Sparse groundcover areas will be checked for, (1) soil moisture levels, (2) irrigation coverage, to

## Example Fertilization Program:

- ☛ **Fall** – 9-9-9 with 11% Iron
- ☛ **Winter** – Ammonium Nitrate (water soluble) with 22-3-9
- ☛ **Spring** – Balanced fertilization, 9-9-9
- ☛ **Summer** – Balanced, organic, slow release w/ Iron

help determine growth problem. Bare areas may require hand tilling of soil, addition of amendment and replanting to create plant uniformity.

5. Fertilization shall be done with a complete, organic based, slow release product.

6. Groundcover list includes: **Example Only!!!**

**Honeysuckle** – requires annual cutback to avoid woody appearance, use complete fertilizer with Iron; chlorosis may mean too much water

**Star Jasmine** – will require trimming in small planter areas to be neat, preferred approach is to use consistent hand clipping of long stems (as opposed to mechanical shearing), plants against walls can be allowed to spread for maximum cover at the discretion of the customer.

**Geranium** – will require annual (winter) cutback to encourage new growth and flowering, should be used as a filler and accent among other groundcovers and shrubs, may require “blooming” fertilizer to maximize color, is a relatively short lived plant but is used in conjunction with other groundcovers and shrubs.

### 3.06 Tree Management Program

The association seeks to maximize the growth and health of tree species, while minimizing damages typically caused by trees or by the lack of proper tree care.

1. All new trees shall be staked to allow movement (at least 6”) in the wind. Stakes shall be removed as soon as trees are deemed established in the soil or by one year of planting, whichever comes first.
2. Trees shall be deep watered to encourage deep roots and discourage surface root damages. Deep watering is especially important during the warm months (May-September). Soil moisture and moisture depth shall be checked by hand soil probes. Irrigation will approximate WUCOLS recommendations for trees at levels approximately 50% of local ET.
3. Trees shall be fertilized in accordance with shrub fertilizer program.
4. Trees shall be pruned back only for safety or structural clearance, otherwise, pruning shall be performed as a “thinning” or “opening” to promote tree spread and shading potential. No more than 1/4 to 1/3 of leaf area shall be removed at any pruning. (International Society of Arboriculture standards to guide all tree pruning.)
5. Potential damages caused by tree roots will be identified on site walks. Where appropriate, root pruning shall be performed to avoid costly damages for the Customer.
6. Trees causing consistent physical damage or nuisance can be recommended for removal. Contractor shall report/recommend such hazards to the Customer.
7. Tree List: **Example Only!!!**

**Carrotwood** – Evergreen, thin in Winter months on a three year cycle, this tree can take stem and branch cut back to control spread in small areas, may need root pruning in some locations to stop hardscape damages.

**Coral** – Evergreen, needs preventive maintenance pruning of crossing and weak crotch limbs, thin in Spring annually as needed, avoid drastic stump cutback, root prune to eliminate hardscape damages.

**Crepe Myrtle** – Deciduous, thin or prune to shape only in Winter, summer flower

**Eucalyptus** – Evergreen, do not top or cut back severely, thin only. If too large for space, remove entire tree.

**Gleditsia** – Deciduous, naturally open tree, allow to spread over streets, very little care, tip pruning can help raise branch heights (removes weight)

**Koelrueteria** – Deciduous, wants to be a large canopy tree, has deep root characteristic, can be pruned (Winter) to scale back size and /or thinned to open, flowers in late Summer with colorful bracts in Fall, will provide attractive shade if allowed to grow to size.

**Pine** – Evergreen, consistently check for spider mites, control with water spray, bio-control, and/or chemical spray, little to no pruning, may want to thin to remove dead needles yearly, may need root pruning to avoid hardscape damages.

**Pistache** – Deciduous, Fall color, allow to branch out and spread, slow grower, deep root characteristics, may need selected pruning to shape, let grow for some years before thinning.

**Tabebuia** – Deciduous, small tree, bright yellow flowers in Spring, naturally open, prune only to shape.

**Tristania** – Evergreen, thin or prune in Winter, can take branch cut back to encourage new growth where needed.

### **3.07 Green Waste/Trash Program**

1. All green waste shall be taken to a green waste composting facility (exchanged for composted material if possible).
2. All shrub, tree and groundcover areas are to be kept clear of trash and debris.
3. Use of blowers is prohibited unless otherwise specified by the Customer. The removal of leaves from under shrubs is not necessary due to use of mulch. Street and parking pad leaves may be swept into mulch areas or picked up. Leaves falling into mulch areas (natural leaf drop) shall be left in the mulch unless otherwise directed by Owners Representative.

### **3.08 Mulching Program**

1. Soils in all shrub, tree and groundcover areas, shall be kept covered with organic, shredded, composted mulch. Landscape areas will naturally experience loss or “breakdown” of mulch. This is caused by the natural micro-biotic action of decomposition. This action is exactly what improves and adds to soil quality, however, replacement of mulch to all areas will be required on an as needed basis. A minimum of a 2” layer of mulch is to be kept “up” at all times. This mulch program will also help eliminate weed growth. As shrubs grow to fill in planter spaces, less mulch will be needed. (Leaf drop under shrub plantings adds to the “natural” mulching of the site.)
2. Soil may need to be removed (and plants replaced) where soil is significantly higher than adjacent hardscapes and mulch is consistently kicked and/or washed out. This will produce catchment to help keep mulch in place.

### **3.09 Integrated Management Program**

To insure maximum management impact for the Customer, an integrated management program shall be implemented. Integration relates to all aspects of the maintenance program. Each specific practice impacts all other practices. Examples of complimentary or integrated actions include:

1. Turf watering and mowing schedule – shut off turf watering stations 24 -48 hours before scheduled mowing; water within 24 hours after mowing.
2. Observe and analyze turf growth to determine appropriate mowing schedule (5-10 day window of mowing as season dictates), for maximum plant health, root growth and appearance.
3. Follow the water/mow/aerify/amend schedule in 3.03 for seasonal turf care.
4. Use grasscycling and soil test analysis to help reduce fertilizer frequency.
5. Use aerification, amendment and organic based, slow release fertilizers with Iron to moderate turf growth.
6. Schedule irrigation as per weather (ET) to produce the most attractive and cost effective turf for the Customer.
7. Use seasonal soil analysis to determine the actual need and application rates for fertilization before fertilizing.
8. Perform preventive maintenance checks on a regular basis to avoid major pest, disease, water related or root damage problems. Specifically check for observable evidence of pests or diseases, observe plant leaf color for nutrient deficiency signs, probing the soil to monitor moisture, read water meters weekly to check for unusually high water consumption (a sign of a leak or poor scheduling) and compare readings to actual ET data.



## APPENDICES II

# Reference Guide

The following organizations, public institutions and landscape professionals contributed to the development of this handbook.

### **The California Landscape Contractors Association (CLCA)**

CLCA Resource Management Committee:

John Addink	Jerry Allison	Dennis Pittenger
John Basanese	Scott Harris	Larry Rolhfes (CLCA)
Pat Marion	Doug Nakamura	Jeffrey Sheehan
David Norred	Linda Novy	Edward Wallace

### **The California Department of Water Resources**

### **The Municipal Water District of Orange County (MWDOC)**

### **The Irvine Ranch Water District (IRWD)**

### **Contra Costa Water Agency, Chris Dundon, Landscape Program Coordinator**

### **Las Virgenes Municipal Water District, Scott Harris, Landscape Program Specialist**

### **James Barry, Barry Consulting**

*(Horticultural instructor, arborist and landscape researcher; provided data on turf and ET study root depth and maintenance programs.)*

### **Integrated Urban Forestry**

*(Specializing in water and resource efficiency in landscapes, urban forestry and green waste recycling; provided information on soils, cost and benefits of appropriate maintenance.)*

### **Toni Monzon – Bilingual Training Institute**

*(Provides specialized irrigation training in English and Spanish; tested book chapter on students and industry professionals.)*

### **Dave Pagano – d.d. Pagano & Associates, Irrigation Design**

*(Specializing in irrigation design, irrigation scheduling, centralized controller operation, retrofits and water management; provided data on irrigation scheduling and field studies.)*

### **Soil and Plant Laboratory**

*(Provided soil testing data and evaluations for this publication.)*

### **Water Right Soil Probes**

*(Donated 18' soil probes for the home use study and offers affordable probes for homeowners and professionals.)*

*This publication is available through The Municipal Water District of Orange County (MWDOC):*

MWDOC  
10500 Ellis Avenue  
Fountain Valley, CA 92728  
(714) 963-3058

*For information regarding products and consultants listed please call: Tom Ash (714) 669-4303,  
e-mail [toma@ctsicorp.com](mailto:toma@ctsicorp.com)*

# APPENDICES III

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# APPENDICES IV

## Index

advanced cultural practices	14,17,19	population	2,8,22,23
aeration	32	profits	21
attitude	8,16,20	property value	6
Best Management Practices (BMPs)	4,5,11	reading water meters	11
CALFED	4	recycled water	9,11,44
California Constitution	4	reliable water supply	9
California Urban Water Conservation Council (CUWCC)	4	retrofit	12,13,19
California Water Code	3	root depth	30,32
case studies	11-19	seasonal water use	40
ccf	40	scheduling irrigation	320
central irrigation control	11,12	selling water efficiency 22	
change	20	soil	26
CIMIS (ET/weather data)	21,36	soil compaction	28,30,31,32
contract specifications	17,24,27,31,32,34,43	soil erosion	7/8
converting inches to ccf	40	soil probing	18,19,28,29,35,36,38,40
costs and benefits of	7,17,22,25	soil probe study	29
crop coefficient (Kc)	11,21,37	soil properties	28
customer needs	9,17,18,24	soil testing	18,27
customer service	23,24,25	thatch	34
Department of Water Resources	2,	tracking irrigation use	17,38,41
drip irrigation	12,13,18	training	16
drought	3,43,44	turf fertilization	19
environmental benefits	6,7,8	turf hot spots	31,32
erosion from water	17	turf root depth	14,30,32
estimating water use	4	University of California Cooperative Extension	1,20,34
evapotranspiration (ET) (starting point depends on final lay-out)	9,10,11,14,35,36	upgrades	12,14
excessive water use	7,30,31,37,46	Urban Water Management Plan Act (AB 797)	4
fertilization	32,34	water agencies	3,4,10
functional need/use of landscapes	7	water budget	4,8,9,10,11,13,14,16,18,20
grasscycling	33,34	water budget formula	38
green industry	1,2,5,6,8,22,25	water budget scheduling	35
green waste	7	water budget study	13,14,30,31
hidden costs	22,46	water conservation	3,4,9,23
hydrozone	21	Water Conservation in Landscaping Act (AB 325)	4
irrigation systems	11,35	water efficiency	1,2,4,5,8,10,14,17,20,23,40
Irvine Ranch Water District	1,10	water infiltration	30
marketing	1,2,6,8,20,22,23,46	water laws	3,4,8
master plan	12,24	water penetration	30
monitoring root depth	30	water price	9,10,31
monitoring soil moisture	28, 29,30	water run-of	31
mulch	18,19,33	water supplies	1,2,3,5,22
mulching mower	19	weather changes	42
new business	8,10,18,19,22,23,40	weekly irrigation scheduling	13,19,42
plant water need	20,35,40,41	WUCOLS Appendix V	
preventive irrigation maintenance	26,32,34		

# APPENDICES V

## WUCOLS (Water Use Classification of Landscape Species) – A Guide to the Water Needs of Landscape Plants

Revised 4/1/94 – An update version will be available by 1999, contact any UCCE office  
 L.R. Costello – University of California Cooperative Extension  
 K.S. Jones – University of California Cooperative Extension

**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.

**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.

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.

**ACKNOWLEDGEMENTS:** We thank Marsha Prillwitz of the Department of Water Resources, U.S. Bureau of Reclamation for her support, assistance, and encouragement.

### Vegetation Types

T	Tree
S	Shrub
V	Vine
G	Groundcover
P	Perennial <i>(Includes ferns, grasses &amp; bulbs)</i>

### WUCOLS Regions

1	North Central Coastal
2	Central Valley
3	South Coastal
4	South Inland Valley
5	High & Intermediate Desert
6	Low Desert

### 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	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 acacia	?	?	?	?	L	L
T	Acacia cultriformis	knife acacia	L	L	L	L	/	/
☆	T	Acacia dealbata	VL	L	L	L	/	/
☆	T	Acacia decurrens	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	L	L	L	L	/	/
☆	T	Acacia melanoxylon	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	Acacia schaffneri	twisted acacia	?	?	?	?	/	L
T	Acacia smallii	desert sweet acacia	?	?	VL	L	/	L
T	Acacia stenophyla	eumong/shoestring acacia	?	L	L	L	/	L
T	Acacia willardiana	palo blanco	/	?	?	?	/	L
P	Acanthus mollis	bear's breech	M	M	M	M	/	M
T	Acer buergeranum	trident maple	M	M	M	/	/	/
T S	Acer circinatum	vine maple	M	H	/	/	/	/
T	Acer griseum	paperbark maple	M	M	?	?	?	?
T	Acer macrophyllum	big leaf maple	M	H	M	H	/	/
T	Acer negundo	box elder	M	M	M	M	/	/
T	Acer oblongum	evergreen maple (oblongum)	M	/	M	M	/	/
T	Acer palmatum	Japanese maple	M	M	H	H	/	/
T	Acer paxii	evergreen maple (paxii)	M	M	M	M	/	/
T	Acer platanoides	Norway maple	M	M	/	H	/	/
T	Acer rubrum	scarlet red maple	M	H	H	H	/	/
T	Acer saccharinum	silver maple	M	M	/	M	/	/
T	Acer saccharum	sugar maple	M	/	/	/	/	/
T	Acer truncatum	Chinese maple	M	M	/	H	/	/
P	Achillea ageratifolia	Greek yarrow	L	M	M	M	M	M
P	Achillea filipendulina	fern leaf yarrow	L	L	L	L	M	M
☆	P	Achillea millefolium	L	L	L	L	M	M
Gc P	Achillea tomentosa	woolly yarrow	L	L	L	L	M	M
P	Aconitum napellus	garden monkshood	M	/	/	/	/	/
P	Acorus gramineus	sweet flag	H	H	H	H	H	H
V	Actinidia deliciosa	kiwi	H	H	H	H	/	/
S	Adenostoma fasciculatum	chamise	VL	VL	VL	VL	/	/
T S	Adenostoma sparsifolium	red shanks/ribbonwood	VL	?	VL	VL	/	/
P	Adiantum spp.	maidenhair fern	H	H	H	H	H	H
S P	Aeonium spp.	Canary Island rose	L	/	L	L	/	L
T	Aesculus californica	California buckeye	VL	VL	VL	L	/	/
T	Aesculus carnea	red horsechestnut	M	M	M	/	/	/
P	Agapanthus africanus	lily-of-the-Nile	M	M	M	M	/	M

**General Plant Factors**  
(estimated water needs)  
Compared to Reference Et  
(100%)

- **Turf** – High/Medium, Cool Season Turf – 80%-100% or (.8 - 1.0), Warm Season Turf – 60%-80% (.6 - .8)
- **Groundcovers** – Medium/Medium High, – 50% - 80% or (.5 - .8)
- **Shrubs** – Medium/Low, 50% or (.5)
- **Trees** – Medium/Low, 50% or (.5)
- **Natives** – Low, 50% or below (.5 and lower)
- **Annuals** – Medium/High, 60% - 100% or (.6 - 1.0)

Source: U.C. Cooperative Extension

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
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	/	/
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 belladona</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>Anisodonteia X hypomandarum</i>	South African mallow	M	M	M	M	/	M
S	<i>Anisodonteia 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'	ice plant (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</i> 'Marina'	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	/	/
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 Sagina)	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	/	/

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
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>Arrenatherum 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	<i>Atriplex</i> spp.	saltbush	VL	VL	VL	VL	/	VL
S	<i>Aucuba japonica</i>	Japanese aucuba	M	M	M	M	/	M
S	<i>Azara dentata</i>	orono	M	/	H	/	M	/
S	<i>Azara microphylla</i>	box leaf azara	M	/	H	/	M	/
P	<i>Babiana stricta</i> hybrids	baboon flower	L	L	L	?	/	/
S	<i>Baccharis pilularis consanguinea</i>	coyote brush	L	L	L	L	/	/
S Gc	<i>Baccharis pilularis</i> cvs.	dwarf coyote brush	L	L	L	L	/	/
S	<i>Baccharis sarothroides</i>	desert broom	VL	L	VL	L	L	L
S Gc	<i>Baccharis</i> 'Centennial'	bentennial baccharis	VL	L	VL	L	L	L
P	<i>Baileya multiradiata</i>	desert marigold	?	?	?	L	L	L
S	<i>Bambusa</i> spp.	bamboo ( <i>Bambusa</i> )	L	L	M	M	M	M
T S	<i>Banksia integrifolia</i>	tree banksia	M	/	M	M	/	M
T S	<i>Banksia speciosa</i>	showy banksia	M	/	M	?	/	M
S	<i>Barleria obtusa</i>	barleria	?	?	M	M	/	/
T	<i>Bauhinia blakeana</i>	Hong Kong orchid tree	/	/	M	M	/	M
V	<i>Bauhinia corymbosa</i>	phanera	/	/	M	?	/	M
T	<i>Bauhinia forficata</i>	Brazilian butterfly tree	/	/	M	M	/	/
T S	<i>Bauhinia punctata</i>	red bauhinia	/	/	M	M	/	/
T	<i>Bauhinia variegata</i>	purple orchid tree	/	/	M	M	/	M
T S	<i>Beaucarnea recurvata</i>	bottle palm	/	/	L	L	/	L
V	<i>Beaumontia grandiflora</i>	Easter lily vine	M	/	M	H	/	/
P	<i>Begonia</i> 'Richmondensis'	Richmond begonia	M	M	M	M	/	M
P	<i>Begonia semperflorens</i>	begonia	M	M	M	M	/	M
Gc	<i>Berberis irwinii</i>	barberry	M	M	/	/	M	M
S Gc	<i>Berberis</i> spp.	barberry	L	L	M	M	M	M
P	<i>Bergenia cordifolia</i>	heartleaf bergenia	M	M	M	H	H	H
P	<i>Bergenia crassifolia</i>	winter blooming bergenia	M	M	M	H	H	H
P	<i>Berlandiera lyrata</i>	chocolate scented daisy	?	M	?	?	M	M
P	<i>Beschorneria yuccoides</i>	Mexican lily	/	/	M	?	?	?
T	<i>Betula fontinalis</i> (see <i>b. occidentalis</i> )							
T	<i>Betula jacquemontii</i>	white barked Himalayan birch	H	H	/	/	/	/
T	<i>Betula nigra</i>	river/red birch	H	H	H	H	/	/
T	<i>Betula occidentalis</i> ( <i>fontinalis</i> )	water birch	H	/	H	H	/	/
T	<i>Betula pendula</i>	European white birch	H	H	H	H	/	/
P	<i>Billbergia</i> spp.	queen's tears etc.	M	/	M	M	/	M
T	<i>Bischofia javanica</i>	toog	/	/	M	?	/	/
P	<i>Blechnum occidentale</i>	hammock fern	H	?	H	?	?	?
P	<i>Bletilla striata</i>	Chinese ground orchid	M	M	M	?	?	?

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			1	2	3	4	5	6
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
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
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



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			1	2	3	4	5	6
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	Cassia phyllodenia	silver cassia	?	?	L	L	L	L
T	Cassia spectabilis (C.excelsa)	crown of gold tree	L	/	M	M	/	/
S	Cassia sturtii	Sturt's cassia	/	/	L	/	/	L
S	Cassia tomentosa	wooly senna	VL	/	L	?	/	M
S	Cassia wizlizeni	shrubby cassia	?	?	L	?	/	L
T	Castanospermum australe	Moreton Bay chestnut	L	/	M	M	/	/
T	Casuarina cunninghamiana	river she-oak	L	L	L	L	M	M
T	Casuarina stricta	coast beefwood	L	L	L	L	M	M
T	Catalpa speciosa	western catalpa	L	M	M	M	M	M
P	Catananche caerulea	cupid's dart	?	L	M	?	?	?
P	Catharanthus roseus	Madagascar periwinkle	M	M	M	M	M	M
S Gc	Ceanothus spp.	California lilac	VL	L	VL	L	/	/
S Gc	Ceanothus cultivars	ceanothus	L	L	L	L	/	/
T	Cedrus atlantica	Atlas cedar	M	M	L	M	M	M
T	Cedrus deodora	deodar cedar	L	M	L	M	M	M
T	Celtis australis	European hackberry	L	M	/	/	M	M
T	Celtis occidentalis	common Hackberry	L	L	/	M	M	M
T	Celtis reticulata	western hackberry	L	/	/	/	L	L
T	Celtis sinensis	Chinese hackberry	L	M	/	M	M	M
P	Centaurea cineraria	dusty miller (cineraria)	L	L	M	M	/	M
P	Centaurea gymnocarpa	velvet centaurea	L	L	M	M	/	M
* P	Centranthus ruber	red valerian	VL	VL	L	L	/	M
S	Cephalocereus spp.	old man cactus	/	/	VL	L	L	L
Gc	Cephalophyllum spp.	ice plant (Cephalophyllum)	L	L	L	L	/	L
Gc	Cerastium tomentosum	snow in summer	M	M	M	M	M	M
T	Ceratonia siliqua	carob	L	L	L	L	/	L
S	Ceratostigma abyssinica	African plumbago	L	/	M	M	M	M
S	Ceratostigma griffithii	Burmese plumbago	L	M	M	M	M	M
Gc	Ceratostigma plumbaginoides	dwarf plumbago	L	M	M	M	M	M
T	Cercidium floridum	blue palo verde	VL	VL	VL	L	/	L
T	Cercidium microphyllum	little leaf palo verde	/	VL	VL	L	/	L
T	Cercidium praecox	Sonoran palo verde	/	L	VL	L	/	L
T	Cercidium 'Sonorae'	Sonora cercidium	?	?	?	?	/	L
T	Cercis canadensis	eastern redbud	M	M	M	M	/	/
T S	Cercis occidentalis	western redbud	VL	VL	L	L	/	/
T	Cercis reniformis	southwest redbud	L	L	?	?	?	?
S	Cercocarpus betuloides	mountain ironwood	VL	VL	VL	VL	VL	/
S	Cercocarpus minutiflorus	San Diego mountain mahogany	L	?	VL	VL	/	/
S	Cereus peruvianus	Peruvian apple cactus	?	?	L	L	/	L
S	Cestrum elegans	red cestrum	M	/	M	M	/	M
S	Cestrum nocturnum	night jessamine	M	M	M	M	/	M
S	Chaenomeles cvs.	flowering quince	L	L	M	M	M	M
T S	Chamaecyparis spp.	false cypress	M	M	/	/	/	/
S P	Chamaedorea spp.	chamaedorea	/	/	H	H	/	H
Gc P	Chamaemelum nobile	chamomile	L	M	M	M	M	M

**General Plant Factors**  
(estimated water needs)  
Compared to Reference ET  
(100%)

● **Turf** - High/Medium,  
Cool Season Turf -  
80%-100% or (.8 - 1.0),  
Warm Season Turf - 60%-  
80% (.6 - .8)

● **Groundcovers** -  
Medium/Medium High, -  
50% - 80% or (.5 - .8)

● **Shrubs** - Medium/Low,  
50% or (.5)

● **Trees** - Medium/Low,  
50% or (.5)

● **Natives** - Low, 50% or  
below (.5 and lower)

● **Annuals** - Medium/High,  
60% - 100% or (.6 - 1.0)

Source: U.C. Cooperative Extension

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
T S	<i>Chamaerops humilis</i>	Mediterranean fan palm	L	L	M	M	M	M
S	<i>Chamelaucium 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	M	M	M	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</i> spp.	rockrose	L	L	L	L	L	L
T S	<i>Citrus</i> spp.	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	<i>Clivia miniata</i>	kaffir lily	M	M	L	M	/	M
V	<i>Clytostoma callistigioides</i>	violet trumpet vine	M	M	M	M	/	M
T S	<i>Cocculus laurifolius</i>	laurel leaf cocculus	M	M	M	M	/	M
S	<i>Coleonema album</i>	white breath of heaven	M	M	M	M	/	/
S	<i>Coleonema pulchrum</i>	breath of heaven	M	M	M	M	/	/
S T	<i>Comarostaphylis diversifolia</i>	summer holly	VL	L	VL	L	/	/
V	<i>Combretum fruticosum</i>	combretum	/	/	M	M	/	/
S	<i>Convolvulus cneorum</i>	bush morning glory	L	L	L	L	L	L
Gc P	<i>Convolvulus mauritanicus</i>	ground morning glory	L	L	L	L	M	M
S Gc	<i>Coprosma kirkii</i>	creeping coprosma	L	L	M	M	/	/
S Gc	<i>Coprosma pumila</i> 'Verde Vista'	verde vista coprosma	L	L	M	M	/	/
* S	<i>Coprosma repens</i>	mirror plant	M	M	M	M	/	/
T S	<i>Cordia boissieri</i>	Texas olive	?	?	?	L	L	L
S	<i>Cordia parvifolia</i>	little leaf cordia	?	?	?	L	L	L
* T	<i>Cordyline australis</i>	New Zealand cabbage tree	L	M	L	M	M	M
S	<i>Cordyline stricta</i>	palm lily	/	M	M	M	/	M
P	<i>Coreopsis auriculata</i> 'Nana'	dwarf coreopsis	L	L	L	L	M	M
P	<i>Coreopsis lanceolata</i>	coreopsis	L	L	L	L	M	M
P	<i>Coreopsis verticillata</i> cvs.	threadleaf coreopsis	L	L	L	L	M	M
P	<i>Corethrogyne californica</i>	black bush	?	?	/	/	VL	/
T	<i>Cornus florida</i>	eastern dogwood	H	H	H	/	/	/
T	<i>Cornus nuttallii</i>	western dogwood	M	M	/	M	/	/
S	<i>Cornus stolonifera</i>	redtwig dogwood	H	H	/	H	/	/
S	<i>Corokia cotoneaster</i>	wire-netting bush	M	M	M	M	M	M
S	<i>Correa</i> spp.	Australian fuchsia	L	L	L	L	/	M
* S	<i>Cortaderia sellowana</i> cvs.	pampas grass	VL	L	L	L	L	L
T S	<i>Corylus maxima</i>	filbert	L	/	/	/	/	/
S	<i>Corylus avellanea contorta</i>	Harry Lauder's walking stick	M	M	/	/	/	/
S	<i>Corylus cornuta californica</i>	western hazelnut	L	?	/	/	/	/
T	<i>Corynocarpus laevigata</i>	New Zealand laurel	M	/	H	/	/	/
T S	<i>Cotinus coggygria</i>	smoke tree	L	L	L	L	L	/

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
* S	Cotoneaster spp. (shrubs)	cotoneaster	L	L	L	M	M	M
* Gc	Cotoneaster spp.(ground covers)	cotoneaster	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	/
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
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	Dasyliirion 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	/	/

**General Plant Factors**  
(estimated water needs)  
Compared to Reference ET  
(100%)

- **Turf** - High/Medium, Cool Season Turf - 80%-100% or (.8 - 1.0), Warm Season Turf - 60%-80% (.6 - .8)
- **Groundcovers** - Medium/Medium High, - 50% - 80% or (.5 - .8)
- **Shrubs** - Medium/Low, 50% or (.5)
- **Trees** - Medium/Low, 50% or (.5)
- **Natives** - Low, 50% or below (.5 and lower)
- **Annuals** - Medium/High, 60% - 100% or (.6 - 1.0)

Source: U.C. Cooperative Extension

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
Gc	<i>Dichondra micrantha</i>	dichondra	H	H	H	H	/	H
S P	<i>Dicksonia antarctica</i>	Tasmanian tree fern	H	H	H	H	/	/
P	<i>Dicliptera suberecta</i>	velvet honeysuckle	L	?	M	?	?	M
P	<i>Dierama</i> spp.	fairy wand	M	M	M	?	?	?
P	<i>Dietes bicolor</i>	fortnight lily	L	L	M	M	/	M
P	<i>Dietes vegeta</i>	fortnight Lily	L	L	M	M	/	M
P	<i>Digitalis mertonensis</i>	foxglove	M	M	M	M	M	M
T	<i>Diospyros kaki</i>	Japanese persimmon	L	M	M	M	M	M
	<i>Diplacus</i> (see <i>Mimulus</i> )							
V	<i>Distictis buccinatoria</i>	blood red trumpet vine	M	M	M	M	/	M
V	<i>Distictis</i> 'Rivers'	royal trumpet vine	M	M	M	M	/	M
S	<i>Dizygotheca elegantissima</i>	thread leaf false aralia	/	M	M	M	/	M
S	<i>Dodonaea viscosa</i>	hopseed bush	L	L	L	M	/	M
S	<i>Dodonaea viscosa</i> 'Purpurea'	purple hopseed bush	L	L	L	M	/	M
T S	<i>Dombeya</i> spp.	dombeya	/	/	M	M	/	/
T	<i>Dombeya cacuminum</i>	strawberry snowball	?	/	M	M	/	/
S	<i>Doryanthes palmeri</i>	spear lily	L	/	L	L	/	/
S	<i>Dorycnium hirsutum</i>	dorycnium	/	?	L	?	?	?
T	<i>Dracaena draco</i>	dragon Tree	L	/	VL	L	/	/
Gc	<i>Drosanthemum</i> spp.	ice plant ( <i>Drosanthemum</i> )	L	L	L	L	/	L
P	<i>Dryopteris erythrosora</i>	wood fern	M	M	M	M	/	/
* Gc	<i>Duchesnea indica</i>	Indian mock strawberry	M	M	M	M	/	M
P	<i>Dudleya</i> spp.	dudleya, live forever	L	L	VL	L	L	L
S	<i>Duranta repens</i>	sky flower	/	/	M	M	/	M
S	<i>Duranta stenostachya</i>	Brazilian sky flower	/	/	M	M	/	/
P	<i>Dyckia</i> spp.	dyckia	L	?	L	L	?	?
P Gc	<i>Dymondia margaretae</i>	dymondia	L	?	L	L	/	/
P	<i>Dyssodia pentachaeta</i>	golden fleece	?	M	?	?	M	M
S P	<i>Echeveria</i> spp.	hens and chickens	L	L	L	L	/	M
P	<i>Echinacea</i> spp.	cone flower	M	M	M	M	M	M
S	<i>Echinocactus</i> spp.	barrel cactus	VL	VL	L	L	/	L
P	<i>Echinops exaltus</i>	globe thistle	M	M	M	?	?	M
* S P	<i>Echium fastuosum</i>	pride of madeira	L	L	L	L	/	M
T S	<i>Elaeagnus angustifolia</i>	Russian olive	L	L	L	L	M	M
S	<i>Elaeagnus X ebbengei</i>	Ebbinge's silverberry	L	L	?	?	M	M
S	<i>Elaeagnus pungens</i>	silverberry	L	L	L	L	L	L
P	<i>Elymus</i> spp.	wild rye	L	L	L	L	M	M
P	<i>Encelia californica</i>	California encelia	L	?	VL	L	/	L
S	<i>Encelia farinosa</i>	brittle bush	L	?	VL	L	L	L
S	<i>Enkianthus campanulatus</i>	red-veined enkianthus	M	H	?	?	?	?
S P	<i>Ensete ventricosum</i>	Abyssinian banana	H	H	H	H	/	H
P	<i>Epilobium</i> spp.( <i>Zauchneria</i> )	California fuchsia	L	L	VL	L	/	M
Gc	<i>Epimedium grandiflorum</i>	bishop's hat	M	M	/	/	/	/
P	<i>Equisetum</i> spp.	horsetail	H	H	H	H	H	H
S	<i>Eremophila glabra</i>	emu bush	L	?	L	?	/	L
S	<i>Eremophila maculata</i>	spotted emu bush	L	L	L	?	/	L
S Gc	<i>Erica</i> spp.	heath	M	M	M	/	/	/
S	<i>Ericameria laricifolia</i> ( <i>Haplopappus</i> )	turpentine bush	?	?	?	?	L	L
P	<i>Erigeron glaucus</i>	beach aster	L	/	M	?	/	/
P	<i>Erigeron karvinskianus</i>	fleabane	L	M	M	M	M	M
S P	<i>Eriogonum</i> spp.	buckwheat	L	L	VL	L	L	L
P Gc	<i>Erodium chamaedryoides</i>	cranesbill(chamaedroides)	L	M	M	M	M	M
P Gc	<i>Erodium chrysanthum</i>	cranesbill (chrysanthum)	L	M	M	M	M	M
T	<i>Eryobotrya deflexa</i>	bronze loquat	M	M	M	M	/	M
T	<i>Eryobotrya japonica</i>	loquat	L	L	M	M	/	M
P	<i>Erysimum linifolium</i>	wallflower	L	L	L	M	/	M
T	<i>Erythrina americana</i> ( <i>E.coralloides</i> )	naked coral tree	/	/	L	M	/	/
T	<i>Erythrina caffra</i>	kaffir bloom coral tree	/	/	L	L	/	/

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
T S	Erythrina crista-galli	cockspur coral tree	M	M	L	L	/	M
T	Erythrina falcata	coral tree (falcata)	/	/	L	/	/	/
T	Erythrina humeana	Natal coral tree	/	M	L	M	/	/
T	Erythrina sykesii	Sykes coral tree	?	/	L	L	/	/
S	Escallonia spp.	escallonia	M	M	M	M	/	M
P	Eschscholzia californica	California poppy	VL	L	L	L	L	L
S	Espositoa lantana	Peruvian old man cactus	?	?	L	L	L	L
* T	Eucalyptus camaldulensis	red gum	VL	L	L	L	M	M
T	Eucalyptus campaspe	silver gimlet	?	?	M	?	/	M
T	Eucalyptus cinerea	ash leaved gum, silver dollar tree	VL	L	L	L	/	/
T	Eucalyptus citriodora	lemon scented gum	L	/	L	M	/	M
T	Eucalyptus cladocalyx	sugar gum	L	/	L	L	/	/
T	Eucalyptus deglupta	mindinao gum	/	/	M	M	/	/
T	Eucalyptus erythrocorys	red cap gum	L	L	M	M	/	M
T	Eucalyptus ficifolia	red flowering gum	L	/	M	M	/	/
T	Eucalyptus formanii	Forman's mallee	?	?	L	?	?	L
* T	Eucalyptus globulus	blue gum	L	L	L	M	/	/
T	Eucalyptus gunnii	cider gum	L	L	L	L	?	/
T	Eucalyptus kruseana	book-leaf mallee	VL	/	L	?	/	?
T	Eucalyptus lehmannii	bushy yate	L	L	L	L	/	/
T	Eucalyptus leucoxydon	white ironbark	L	L	L	L	/	M
T	Eucalyptus loxophleba	York gum	?	VL	?	VL	/	/
T	Eucalyptus macranda	long flowered marlock	VL	VL	VL	L	/	L
T	Eucalyptus maculata	spotted gum	L	/	M	M	/	/
T	Eucalyptus microtheca	coolibah	L	L	L	L	M	M
T	Eucalyptus nicholii	Nichol's willow leaf peppermint	L	L	M	M	M	M
T	Eucalyptus polyanthemus	silver dollar gum	L	L	L	L	M	M
T	Eucalyptus preissiana	bell mallee	VL	/	L	?	/	?
* T	Eucalyptus pulverulenta	silver mountain gum	L	M	M	M	/	M
T	Eucalyptus robusta	swamp mahogany	L	L	L	L	/	/
T	Eucalyptus rudis	flooded gum	L	L	L	L	M	M
T	Eucalyptus sargentii	Salt River mallet	?	VL	?	L	/	L
T	Eucalyptus sideroxydon	red iron bark	L	L	L	L	M	M
T	Eucalyptus spathulata	swamp mallee	L	/	L	L	/	M
T	Eucalyptus torelliana	cadaga	M	/	?	?	?	?
T	Eucalyptus torquata	coral gum	L	L	L	M	/	M
T	Eucalyptus viminalis	manna gum	L	L	L	M	/	M
T	Eucalyptus woodwardii	lemon flowered gum	VL	?	L	?	?	L
Gc	Euonymus fortunei	purple winter creeper	M	M	M	M	M	/
V	Euonymus fortunei radicans	winter creeper	M	M	/	M	M	M
S	Euonymus japonica	evergreen euonymus	L	L	M	M	M	M
T S	Euphorbia cotinifolia	Caribbean copper plant	/	/	M	/	/	/
S	Euphorbia milii	crown of thorns	/	L	L	L	/	L
S	Euphorbia pulcherrima	poinsettia	/	/	L	M	/	M
S	Euphorbia rigida	euphorbia (rigida)	/	L	VL	L	/	L
S	Euphorbia tirucali	milk bush	/	/	VL	/	/	L
S P	Euryops pectinatus	euryops/shrub daisy	L	L	L	L	M	M
S P	Euryops pectinatus viridis	green euryops	M	M	M	M	M	M
P	Evolvulus nuttallianus	evolvulus	?	?	M	M	/	?
S	Fabiana imbricana	fabiana	?	?	M	?	?	?
T	Fagus sylvatica	European beech	M	H	/	/	/	/
S	Fallugia paradoxa	Apache plume	/	?	VL	VL	L	L
V	Fatsyhedera lizei	fatsyhedera	M	M	M	H	/	H
S	Fatsia japonica	Japanese aralia	M	M	M	M	/	H
T S	Feijoa sellowiana	pineapple guava	L	L	L	M	/	M
S	Felicia amelloides	blue marguerite	M	M	M	M	/	M
S	Felicia fruticosa	shrub aster	/	L	L	M	/	M
S	Ferocactus spp.	barrel cactus	VL	VL	VL	L	L	L
P	Festuca californica	California fescue	L	M	M	M	M	M

**General Plant Factors**  
(estimated water needs)  
Compared to Reference E  
(100%)

- **Turf** - High/Medium, Cool Season Turf - 80%-100% or (.8 - 1.0), Warm Season Turf - 60%-80% (.6 - .8)
- **Groundcovers** - Medium/ Medium High, - 50% - 80% or (.5 - .8)
- **Shrubs** - Medium/ Low, 50% or (.5)
- **Trees** - Medium/Low, 50% or (.5)
- **Natives** - Low, 50% or below (.5 and lower)
- **Annuals** - Medium/High, 60% - 100% or (.6 - 1.0)

Source: U.C. Cooperative Extension

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
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
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 almahama</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 'Raywood'</i>	raywood ash	M	M	M	M	M	M
T	<i>Fraxinus pennsylvanica 'Marshal'</i>	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 'Modesto'</i>	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	/
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	/	/	/

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
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S	Griselinia lucida	griselinia (lucida)	M	/	M	/	/	/
S	Gutterrezia sarothrae	stickle Broom	?	?	/	/	L	L
P	Gypsophila paniculata	baby's breath	L	L	M	M	/	M
S	Hakea laurina	sea urchin tree	L	L	L	L	/	/
S	Hakea suaveolens	sweet hakea	L	L	L	L	/	/
S	Hamamelis virginiana	common witch hazel	M	M	/	/	/	/
S	Hamelia patens	Texas firecracker bush	?	?	?	?	/	M
V	Hardenbergia violacea	lilac vine	M	M	M	M	/	M
T	Harpephyllum caffrum	kaffir plum	M	/	M	M	/	/
T	Harpullia arborea	tulipwood	/	/	M	/	/	/
P	Haworthia spp.	haworthia	L	L	L	L	/	L
S	Hebe spp.	hebe	M	M	M	M	/	/
* Gc V	Hedera canariensis	Algerian ivy	M	M	M	M	M	M
* Gc V	Hedera helix	English ivy	M	M	M	M	M	M
S	Hedychium coronarium	white ginger lily	M	/	H	H	/	H
S	Hedychium gardneranum	Kahili ginger	M	/	H	H	/	H
P	Helianthemum nummularium	sunrose	L	L	L	L	/	/
P	Helictotrichon sempervirens	blue oat grass	L	L	M	M	M	M
P	Heliotropium arborescens	common heliotrope	M	M	M	?	?	M
P	Helleborus spp.	hellebore	M	M	M	M	/	/
P	Hemerocallis spp.	day lily	M	M	M	M	M	M
Gc	Herniaria glabra	green carpet	H	M	M	M	/	/
S	Hesperaloe funifera	Coahuilan hesperaloe	?	?	VL	L	L	L
S	Hesperaloe parviflora	red/ yellow yucca	?	?	VL	L	L	L
S	Heteromeles arbutifolia	toyon	VL	VL	L	L	/	/
P	Heuchera maxima	island alum root	M	/	M	M	/	/
P	Heuchera sanguinea	coral bells	M	M	M	M	M	M
P	Hibbertia cunififormis	hibbertia	M	M	/	/	/	M
V	Hibbertia scandens	Guinea gold vine	M	M	M	M	/	M
S	Hibiscus rosa-sinensis	Chinese hibiscus	M	M	M	M	/	H
S P	Hibiscus mutabilis	confederate rose	M	M	?	M	?	?
S	Hibiscus syriacus	rose of Sharon	L	M	M	M	M	M
P	Hosta spp.	plantain lily	M	M	/	/	/	/
P	Houttuynia cordata 'Chameleon'	chameleon houttuynia	M	M	M	?	?	?
S	Howea forsterana	sentry palm	/	/	M	M	/	/
S V	Hydrangea anomala petiolaris	climbing hydrangea	M	H	/	H	/	/
S	Hydrangea macrophylla	hydrangea	M	H	M	H	H	H
S	Hydrangea paniculata 'Grandiflora'	peegee hydrangea	M	?	M	?	?	?
S	Hydrangea quercifolia	oakleaf hydrangea	M	?	M	M	H	H
T	Hymenosporum flavum	sweet shade	M	/	M	M	/	/
S	Hypericum beanii	Henry St. John's wort	M	M	M	M	M	?
Gc	Hypericum calycinum	Aaron's beard	M	M	M	M	M	/
S	Hypericum 'Hidecote'	St. Johnswort	M	M	M	M	M	/
S P	Hypericum moseranum	gold flower	M	M	M	M	M	/
P	Iberis sempervirens	evergreen candy tuft	M	M	M	M	M	M
S	Ilex X altaclarensis 'Wilsonii'	Wilson holly	M	M	M	M	M	M
* S	Ilex aquifolium	English holly	L	M	M	M	M	M
S	Ilex cornuta 'Burfordii'	Burford holly	L	M	M	M	M	M
S	Ilex dimorphophilla	Okinawan holly	M	M	M	M	/	?
S	Ilex X meserveae	blue boy/girl etc. cvs.	M	M	M	M	/	?
S	Ilex vomitoria	yaupon	L	M	L	L	M	M
P	Impatiens oliveri	poor man's rhododendron	M	/	H	/	/	/
P	Imperata cylindrica 'Rubra'	Japanese blood grass	H	H	M	M	?	M
S	Iochroma cyaneum	tubeflower	M	?	M	M	/	/
P	Ipeion uniflorum (Tritelia)	spring star flower	L	L	L	?	?	?
V	Ipomoea acuminata	blue dawn flower	L	M	L	?	/	M
P	Iris spp.	Douglas iris hybrids	L	L	M	M	/	/
P	Iris spp.	bearded iris	L	L	M	M	M	M

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TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
P	Iris spp.	Japanese iris	H	H	H	H	/	/
P	Iris spp.	Spanish/Dutch iris	M	M	M	M	M	M
S	Isocoma spp. (Haplopappus)	goldenbush	?	?	VL	VL	VL	VL
Gc	Iva hayesiana	poverty weed	VL	VL	VL	L	/	/
S	Ixora coccinia	jungle geranium	?	?	M	?	/	?
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
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 thurbinii	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



TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
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
S	Lonicera subspicata	chaparral honeysuckle	?	?	/	M	/	/
T	Lophostemon confertus	Brisbane box	M	/	M	M	/	/
S	Loropetalum chinense	Chinese witch hazel	L	M	M	?	?	?
* Gc	Lotus corniculatus	birdsfoot trefoil	L	M	M	M	/	M
P	Lotus scoparius	deer weed	VL	?	L	VL	/	/
S	Luma apiculata	luma	M	?	M	M	/	/
S	Lupinus albifrons	silver lupine	VL	L	/	L	/	/
* S	Lupinus arboreus	coastal bush lupine	L	/	L	/	/	/
P	Lupinus (Russell hybrids)	Russell lupines	M	M	/	/	/	/
P	Lychnis chalconica	Maltese cross	?	?	M	M	M	M
P	Lychnis coronaria	rose campion/crown pink	L	L	L	L	M	M
S	Lycianthus rantonnetii	Paraguay nightshade/ blue potato bush	M	M	M	M	/	M
T	Lyonothamnus floribunda	Catalina ironwood	L	/	VL	L	/	/
T S	Lysiloma candida	palo blanca	/	/	?	?	/	M
T S	Lysiloma thornberi	feather bush	?	/	L	?	/	M
Gc	Lysimachia nummularia	moneywort	H	H	H	H	/	/
T	Macadamia spp.	macadamia nut	M	/	M	M	/	/
V	Macfadyena unguis-cati	cat's claw	L	L	L	L	L	L
S	Mackaya bella	mackaya	M	?	M	M	/	/
P	Macleaya spp.	plume poppy	M	?	M	?	?	?
T	Magnolia grandiflora	southern magnolia	M	M	M	M	/	H
T	Magnolia soulangeana	saucer magnolia	M	M	M	M	M	/
T	Magnolia stellata	star magnolia	M	M	M	M	M	/
S	Mahonia aquifolium	Oregon grape	M	M	M	M	M	M
S	Mahonia bealei	leatherleaf mahonia	M	M	M	M	M	M
S	Mahonia 'Golden Abundance'	golden abundance mahonia	L	L	L	M	M	M
S	Mahonia lomariifolia	Chinese holly grape	M	M	L	M	M	M
S	Mahonia nevinii	Nevin mahonia	VL	L	L	L	M	M
S	Mahonia pinnata	California holly grape	L	L	M	M	M	M
Gc	Mahonia repens	creeping mahonia	L	L	L	M	M	/
S	Malacothamnus fasciculatus	bush mallow	L	?	VL	L	/	/
Gc	Maleophora spp.	ice plant (Maleophora)	L	L	L	L	/	L
S	Malosma laurina (Rhus laurina)	laurel sumac	VL	L	VL	L	/	/
T	Malus spp.(edible)	apple	M	M	M	M	M	/
T	Malus spp. eg. 'Robinson'	crabapple	M	M	/	M	M	/
V	Mandevilla laxa	Chilean jasmine	M	/	M	M	/	M
S	Mandevilla splendens	mandevilla	M	/	M	M	/	M
V	Mandevilla cvs.	'Alice Dupont' etc.	M	/	M	H	/	H
T	Markhamia hildebrandtii	markhamia	?	?	M	/	/	/
V	Mascagnia lilacina	purple orchid vine	?	?	?	?	?	M

**General Plant Factors  
(estimated water needs)  
Compared to Reference E1  
(100%)**

- **Turf** - High/Medium, Cool Season Turf - 80%-100% or (.8 - 1.0), Warm Season Turf - 60%-80% (.6 - .8)
- **Groundcovers** - Medium/Medium High, - 50% - 80% or (.5 - .8)
- **Shrubs** - Medium/Low, 50% or (.5)
- **Trees** - Medium/Low, 50% or (.5)
- **Natives** - Low, 50% or below (.5 and lower)
- **Annuals** - Medium/High, 60% - 100% or (.6 - 1.0)

Source: U.C. Cooperative Extension

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

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
☆ 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
☆ 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
S	Philadelphus X virginialis	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	M	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

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Source: U.C. Cooperative Extension

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
T S	<i>Photinia serrulata</i>	Chinese photinia	M	M	/	M	M	M
* Gc	<i>Phylla nodiflora</i>	lippia	L	M	L	L	/	M
S	<i>Phyllostachys</i> spp.	bamboo ( <i>Phyllostachys</i> )	L	L	M	M	M	M
P	<i>Physostegia virginiana</i>	obedience plant	M	M	M	M	M	M
T	<i>Picea abies</i>	Norway spruce	M	M	M	/	/	/
T	<i>Picea pungens</i>	Colorado spruce	M	M	M	/	/	/
S	<i>Pieris forestii</i>	Chinese pieris	M	M	/	/	/	/
S	<i>Pieris japonica</i>	lily-of-the-valley shrub	M	M	/	/	/	/
T	<i>Pinus attenuata</i>	knobcone pine	L	L	L	L	/	/
T	<i>Pinus X attenuuradiata</i>	knobcone-Monterrey pine	M	/	L	M	/	/
T	<i>Pinus brutia</i>	Calabrian pine	L	L	L	L	M	M
T	<i>Pinus canariensis</i>	Canary Island pine	L	L	L	M	M	M
T	<i>Pinus contorta</i>	beach pine	M	M	/	/	/	/
T	<i>Pinus coulteri</i>	Coulter pine	L	L	L	L	M	/
T	<i>Pinus densiflora</i>	Japanese red pine	M	M	/	M	/	/
T	<i>Pinus edulis</i>	pinyon pine	L	L	VL	L	L	/
T	<i>Pinus eldarica</i>	eldarica pine	L	L	L	L	M	M
T	<i>Pinus halepensis</i>	Aleppo pine	L	L	L	L	L	L
T	<i>Pinus jeffreyi</i>	Jeffrey pine	L	L	/	/	/	/
T	<i>Pinus monophylla</i>	single leaf pinyon pine	L	/	L	L	L	/
T	<i>Pinus montezumae</i>	Montezuma pine	L	?	L	L	/	/
S	<i>Pinus mugo</i>	mugo pine	L	L	/	M	M	/
T	<i>Pinus muricata</i>	bishop pine	M	M	L	/	/	/
T	<i>Pinus nigra</i>	Austrian black pine	M	M	/	M	M	/
T	<i>Pinus patula</i>	Jelescote pine	M	M	M	M	M	M
* T	<i>Pinus pinaster</i>	cluster pine	M	M	L	/	/	/
* T	<i>Pinus pinea</i>	Italian stone pine	L	L	L	L	M	M
T	<i>Pinus ponderosa</i>	ponderosa pine	L	L	/	L	/	/
* T	<i>Pinus radiata</i>	Monterrey pine	M	/	M	M	/	/
T	<i>Pinus roxburghii</i>	chir pine	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 eugenoides</i>	tarata	M	M	M	M	/	/
T	<i>Pittosporum phillyraeoides</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>Platycladus 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> ( <i>Helichrysum</i> )	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



TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
T	Podocarpus gracilior	fern pine	M	M	M	M	/	M
T	Podocarpus henkelii	long leaf yellow wood	M	H	M	M	M	/
T	Podocarpus latifolius	podocarpus (latifolius)	M	?	M	/	/	/
T S	Podocarpus macrophyllus	yew pine	M	M	M	M	M	M
T S	Podocarpus nagi	podocarpus (nagi)	M	M	M	M	M	M
V	Podranea ricasoliana	pink trumpet vine	/	M	M	M	/	M
S	Polygala X dalmaisiana	sweet pea shrub	L	M	M	M	/	/
V	Polygonum aubertii	silver lace vine	L	L	L	L	M	M
Gc	Polygonum capitatum	knotweed	M	M	M	M	M	M
P	Polystichum munitum	sword fern	M	M	M	H	/	H
P	Polystichum polyblepharum	Japanese lace fern	M	H	H	H	M	M
P	Polystichum setiferum	Alaskan fern	M	H	H	H	M	M
T	Populus alba 'Pyramidalis'	bolleana poplar	M	M	M	M	H	H
T	Populus balsamifera	balsam poplar	M	M	M	M	H	H
T	Populus X canadensis	Carolina poplar	H	H	?	M	H	H
T	Populus fremontii	western poplar	M	M	M	M	H	H
T	Populus 'Mohavensis'	Mohave poplar	?	?	?	?	M	M
T	Populus nigra 'Italica'	Lombardy poplar	M	M	M	M	H	H
T	Populus trichocarpa	black cottonwood	H	H	M	M	H	/
S P	Portulacaria afra	elephant's food	L	L	L	L	/	L
S	Potentilla fruticosa cvs.	cinquefoil	M	M	/	/	M	/
Gc	Potentilla tabernaemontanii(verna)	spring cinquefoil	M	M	M	M	/	M
P Gc	Pratia angulata	pratia	?	H	H	H	/	/
T	Prosopis alba	Argentine mesquite	/	L	L	L	M	M
T	Prosopis chilensis	Chilean mesquite	/	L	L	L	M	M
T	Prosopis glandulosa glandulosa	Honey mesquite	/	L	L	L	M	M
T	Prosopis pubescens	screwbean mesquite	/	L	L	L	M	M
T	Prosopis velutina	velvet mesquite	/	L	L	L	M	M
S	Prostanthera rotundifolia	round leaf mint bush	L	M	L	M	/	/
S P	Protea spp.	protea	M	/	M	M	/	/
Gc P	Prunella spp.	self heal	M	M	M	M	?	?
T S	Prunus caroliniana	Carolina laurel cherry	L	L	M	M	M	M
T S	Prunus ilicifolia	holly leaf cherry	L	L	VL	VL	/	/
T S	Prunus lauroceracus	English laurel	M	M	/	H	/	/
T S	Prunus lusitanica	Portugal laurel	L	L	/	/	/	/
T S	Prunus lyonii	Catalina cherry	L	L	L	L	/	/
T	Prunus spp. (edible)	almond	L	M	M	M	M	/
		apricot	M	M	M	M	M	/
		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

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(100%)

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- Groundcovers - Medium/Medium High, - 50% - 80% or (.5 - .8)
- Shrubs - Medium/Low, 50% or (.5)
- Trees - Medium/Low, 50% or (.5)
- Natives - Low, 50% or below (.5 and lower)
- Annuals - Medium/High, 60% - 100% or (.6 - 1.0)

Source: U.C. Cooperative Extension

✧

TYPE	BOTANICAL NAME	COMMON NAME	REGIONAL EVALUATIONS					
			1	2	3	4	5	6
T	<i>Pyrus calleryana</i> cultivars	Callery pear	M	M	M	M	M	M
T	<i>Pyrus communis</i>	edible pear	M	M	M	M	M	/
T	<i>Pyrus kawakamii</i>	evergreen pear	M	M	M	M	M	M
T	<i>Quercus agrifolia</i>	coast live oak	VL	VL	L	L	/	M
T	<i>Quercus chrysolepis</i>	canyon live oak	VL	L	L	L	/	/
T	<i>Quercus coccinea</i>	scarlet oak	M	M	/	M	/	/
T	<i>Quercus douglasii</i>	blue oak	VL	VL	VL	L	/	/
T S	<i>Quercus dumosa</i>	California scrub oak	VL	VL	VL	VL	L	/
T	<i>Quercus engelmannii</i>	mesa oak	/	L	L	L	/	/
T	<i>Quercus ilex</i>	holly oak	L	L	L	L	M	M
T	<i>Quercus kelloggii</i>	California black oak	L	M	/	M	/	/
T	<i>Quercus lobata</i>	valley oak	L	L	/	M	/	/
T	<i>Quercus muhlenbergii</i>	chinquapin oak	L	?	?	L	L	M
T	<i>Quercus palustris</i>	pin oak	M	M	/	M	/	/
T	<i>Quercus rubra</i>	red oak	M	M	/	M	/	/
T	<i>Quercus shumardii</i>	Shumard red oak	M	M	?	/	/	/
T	<i>Quercus suber</i>	cork oak	L	L	L	L	L	L
T	<i>Quercus texana</i>	Texas red oak	L	?	?	L	L	M
T	<i>Quercus tomentella</i>	island oak	L	?	L	/	/	/
T	<i>Quercus virginiana</i>	southern live oak	M	M	M	M	M	M
T	<i>Quercus wislizeni</i>	interior live oak	VL	VL	VL	VL	M	/
T	<i>Radermachera sinica</i>	radermachera	/	/	M	/	/	/
T	<i>Ravanea rivularis</i>	ravanea	/	?	M	M	/	/
P	<i>Rehmannia elata</i>	rehmannia	H	H	M	H	M	M
Gc	<i>Rhagodia deltophylla</i>	rhagodia	?	?	VL	?	?	?
S	<i>Rhamnus alaternus</i>	Italian buckthorn	L	L	L	M	/	/
S	<i>Rhamnus californica</i>	coffeeberry	L	L	VL	L	/	M
S	<i>Rhamnus crocea</i>	redberry	L	L	VL	L	/	M
S	<i>Rhamnus crocea ilicifolia</i>	hollyleaf redberry	L	L	VL	L	/	M
S	<i>Rhaphiolepis</i> spp.	Indian hawthorne	L	L	M	M	M	M
T	<i>Rhaphiolepis</i> 'Majestic Beauty'	majestic beauty	L	L	M	M	M	M
S	<i>Rhapis excelsa</i>	lady palm	/	/	M	M	/	/
S	<i>Rhododendron</i> spp.	azalea	M	M	H	H	/	/
S	<i>Rhododendron</i> spp.	rhododendron	M	M	H	H	/	/
V	<i>Rhoicissus capensis</i>	evergreen grape	M	/	M	M	/	M
T S	<i>Rhopalostylis baueri</i>	Norfolk palm	?	/	M	M	/	/
T S	<i>Rhopalostylis sapida</i>	Nikau palm	?	/	H	H	/	/
S	<i>Rhus integrifolia</i>	lemonade berry	L	L	VL	L	/	/
T	<i>Rhus lancea</i>	African sumac	L	L	L	L	M	M
T	<i>Rhus lanceolata</i>	prairie flameleaf sumac	?	?	?	?	L	L
	<i>Rhus laurina</i> (see <i>Malosma laurina</i> )							
S	<i>Rhus ovata</i>	sugar bush	L	L	VL	L	M	M
S	<i>Rhus trilobata</i>	squawbush	L	L	L	L	L	/
S T	<i>Rhus typhina</i>	staghorn sumac	L	L	L	?	L	/
S	<i>Ribes aureum</i>	golden currant	L	L	L	L	L	/
S	<i>Ribes indecorum</i>	white flowering currant	L	L	L	L	L	/
S	<i>Ribes malvaceum</i>	chaparral currant	VL	VL	VL	L	/	/
S	<i>Ribes sanguineum</i>	red flowering currant	L	L	L	M	/	/
S	<i>Ribes speciosum</i>	fuchsia flowering gooseberry	L	L	L	M	/	/
S Gc	<i>Ribes viburnifolium</i>	evergreen currant	L	L	L	M	/	/
T	<i>Robinia X ambigua</i>	locust	L	L	L	L	M	M
* T	<i>Robinia pseudoacacia</i>	black locust	L	L	L	L	L	L
S P	<i>Romneya coulteri</i>	Matilija poppy	VL	VL	VL	L	/	/
V	<i>Rosa banksiae</i>	Lady Banks rose	LL	L	M	M	M	M
S	<i>Rosa californica</i>	California wild rose	L	L	L	L	/	/
V	<i>Rosa</i> 'Cecile Brunner'	Cecile Brunner rose	L	L	M	M	M	M
S	<i>Rosa</i> hybrids..bush	rose	M	M	M	M	H	H
V	<i>Rosa</i> hybrids..climbing	climbing roses	M	M	M	M	H	H
S P	<i>Rosmarinus officinalis</i>	rosemary	L	L	L	L	M	M

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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 ocymoides	saponaria	L	L	M	M	/	/
S Gc	Sarcococca hookerana humilis	sweet sarcococca	M	M	M	M	M	M
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

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V	<i>Solanum wendlandii</i>	Costa Rican nightshade	L	/	M	/	/	M
Gc P	<i>Soleirolia soleroli</i>	baby's tears	H	H	H	H	/	H
S Gc	<i>Sollya heterophylla</i>	Australian bluebell creeper	L	L	L	L	/	/
T	<i>Sophora japonica</i>	Japanese pagoda tree	L	L	M	M	M	M
T S	<i>Sophora secundiflora</i>	Texas mountain laurel	L	L	L	L	M	M
T	<i>Sorbus aucuparia</i>	European mountain ash	/	M	/	/	M	M
* S	<i>Spartium junceum</i>	Spanish broom	/	VL	VL	L	/	/
P	<i>Spathiphyllum</i> spp.	spathiphyllum	/	/	H	/	/	/
T	<i>Spathodea campanulata</i>	African tulip tree	/	/	M	/	/	/
P	<i>Sphaeralcea</i> spp.	desert/globe mallow	L	L	L	L	/	L
S	<i>Spiraea</i> spp.	spiraea	M	M	M	M	M	M
P	<i>Sprekelia formosissima</i>	Aztec lily	L	L	L	L	L	L
P	<i>Stachys bysantina</i>	lamb's ears	L	L	M	M	/	M
T	<i>Stenocarpus sinuatus</i>	firewheel tree	/	/	M	M	/	/
V	<i>Stephanotis floribunda</i>	Madagascar jasmine	/	/	M	M	/	M
P	<i>Stipa lepida</i>	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 'Stricta'</i>	Irish yew	M	M	M	M	M	/
T S	<i>Tecoma stans</i>	yellow bells	/	/	M	M	M	M
S	<i>Tecoma 'Orange Jubilee'</i>	orange jubilee tecoma	M	M	?	?	/	M
S V	<i>Tecomaria capensis</i>	cape honeysuckle	M	M	M	M	/	M
S	<i>Ternstroemia 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
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	/



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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 calypttratus</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
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</i> spp.	watsonia	L	M	L	M	M	M

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



## Cooperative Extension County Offices

### ALAMEDA

224 West Winton Ave., Room 174  
Hayward, CA 94544-1220  
510-670-5200  
510-670-5231 fax

### AMADOR

Mail: 108 Court Street  
Jackson, CA 95642-2379  
Location: 12380 Airport Road  
Martell, CA 95654  
209-223-6482  
209-223-3279 fax

### BUTTE

2279B Del Oro Avenue  
Oroville, CA 95965-3395  
530-538-7201  
530-538-7140 fax

### CALAVERAS

891 Mountain Ranch Road  
County Annex  
San Andreas, CA 95249  
209-754-6477  
209-754-6472 fax

### COLUSA

Mail: PO Box 180  
Location: 100 Sunrise Blvd., Ste. E  
Colusa, CA 95932-0180  
530-458-0507  
530-458-4625 fax

### CONTRA COSTA

75 Santa Barbara Rd., 2nd Floor  
Pleasant Hill, CA 94523  
510-646-6540  
510-646-6708 fax

### DEL NORTE

967 H St., Rm.2, Courthouse Annex  
Crescent City, CA 95531  
707-464-4711  
707-464-7520 fax

### EL DORADO

311 Fair Lane  
Placerville, CA 95667-4101  
530-621-5502  
530-642-0803 fax

### FRESNO

1720 South Maple Avenue  
Fresno, CA 93702-4516  
209-456-7285  
209-456-7575 fax

### GLENN

Mail: PO Box 697  
Location: County Road 200 E  
Orland, CA 95963-0697  
530-865-1107  
530-865-1109 fax

### HUMBOLDT

Agricultural Center Building  
5630 South Broadway  
Eureka, CA 95503-6999  
707-445-7351  
707-444-9334 fax

### IMPERIAL

1050 East Holton Road  
Holtville, CA 92250-9617  
760-352-9474  
760-352-0846 fax

### INYO-MONO

207 West S Street  
Bishop, CA 93514  
760-873-7854  
760-872-1610 fax

### KERN

1031 South Mt. Vernon Avenue  
Bakersfield, CA 93307-2051  
805-868-6200  
805-868-6208 fax

### KINGS

Mail: 680 N. Campus Dr., Ste. A  
Location: Kings County  
Agricultural Center  
Hanford, CA 93230-3556  
209-582-3211, ext. 2730, 2732  
209-582-5166 fax

### LAKE

Agricultural Center  
883 Lakeport Boulevard  
Lakeport, CA 95453-5405  
707-263-6838  
707-263-3963 fax

### LASSEN

707 Nevada Street  
Susanville, CA 96130-0001  
530-257-6363  
530-257-6129 fax

### LOS ANGELES

2 Coral Ctr.  
Monterey Park, CA 91755-7425  
213-838-8830  
213-838-7449 fax

### MADERA

328 Madera Avenue  
Madera, CA 93697-5465  
209-675-7879  
209-675-0639 fax

### MARIN

1682 Novato Blvd., Suite 150-B  
Novato, CA 94947-7001  
415-899-8620  
415-899-8619 fax

### MARIPOSA

5009 Fairgrounds Road  
Mariposa, CA 95338-9435  
209-966-2417  
209-966-5321 fax

### MENDOCINO

Mail: Agricultural Ctr./Courthouse  
Location: 579 Low Gap Road  
Ukiah, CA 95482-0001  
707-463-4495  
707-463-4477 fax

### MERCED

2145 West Wardrobe Avenue  
Merced, CA 95340-6496  
209-385-7403  
209-722-8856 fax

### MODOC

202 West 4th Street  
Alturas, CA 96101-3915  
530-233-6400, Ext. 400  
530-233-3840 fax

### MONTEREY

1432 Abbott Street  
Salinas, CA 93901-4503  
408-759-7350  
408-758-3018 fax

### NAPA

1710 Soscol Avenue, Suite 4  
Napa, CA 94559-1315  
707-253-4221 • 707-944-2006  
707-253-4434 fax

### NEVADA

Veterans Memorial Bldg.  
255 S. Auburn Street  
Grass Valley, CA 95945-7229  
530-273-4563  
530-273-4769 fax

### ORANGE

1045 Arlington Drive  
Costa Mesa, CA 92626-5631  
714-708-1606  
714-708-2754 fax

### PLACER

11477 E Avenue  
Auburn, CA 95603-001  
530-889-7385  
530-889-7397 fax

**PLUMAS-SIERRA**

208 Fairgrounds Road  
 Quincy, CA 95971-9462  
 530-283-6270  
 530-283-4210 fax

**RIVERSIDE**

21150 Box Springs Road  
 Moreno Valley, CA 92557-8718  
 909-683-6491  
 909-788-2615 fax

**SACRAMENTO**

4145 Branch Center Road  
 Sacramento, CA 95827-3808  
 916-875-6913  
 916-875-6233 fax

**SAN BENITO**

649-A San Benito Street  
 Hollister, CA 95023-3952  
 408-637-5346  
 408-637-7111 fax

**SAN BERNARDINO**

777 East Rialto Avenue  
 San Bernardino, CA 92415-0730  
 909-387-2171  
 909-387-3306 fax

**SAN DIEGO**

5555 Overland Avenue, Building 4  
 San Diego, CA 92123-1719  
 619-694-2845  
 619-694-2849 fax

**SAN FRANCISCO**

300 Piedmont Avenue, Building C  
 Rm 305-A  
 San Bruno, CA 94066-3906  
 415-871-7589  
 415-871-7399 fax

**SAN JOAQUIN**

420 South Wilson Way  
 Stockton, CA 95205-6260  
 209-468-2085  
 209-462-5181 fax

**SAN LUIS OBISPO**

2156 Sierra Way, Suite C  
 San Luis Obispo, CA 93401-4556  
 805-781-5940  
 805-781-4316 fax

**SAN MATEO**

625 Miramontes Street, Suite 200  
 Half Moon Bay, CA 94019-1942  
 650-726-9059  
 650-726-9267 fax

**SANTA BARBARA**

Santa Maria Office  
 Tech Services Building  
 624 West Foster Road, Suite A  
 Santa Maria, CA 93455  
 805-934-6240  
 805-934-6333 fax

Santa Barbara City Office  
 105 East Ana-pamu, Suite 5  
 Santa Barbara, CA 99101  
 805-568-3300  
 805-568-3091 fax

**SANTA CLARA**

1005 Timothy Drive  
 San Jose, CA 95135  
 408-299-2635  
 408-298-5160 fax

**SANTA CRUZ**

1432 Freedom Boulevard  
 Watsonville, CA 95076-2741  
 408-763-8040  
 408-763-8004 fax

**SHASTA**

1851 Hartnell Avenue  
 Redding, CA 96002-2217  
 530-224-4900  
 530-224-4904 fax

**SISKIYOU**

1655 South Main Street  
 Yreka, CA 96097-9515  
 530-842-2711  
 530-842-6931 fax

**SOLANO**

2000 West Texas Street  
 Fairfield, CA 94533-4498  
 707-421-6790  
 707-429-5532 fax

**SONOMA**

2604 Ventura Avenue, Room 100-P  
 Santa Rosa, CA 95403-2894  
 707-527-2621  
 707-527-2623 fax

**STANISLAUS**

733 County Center III Court  
 Modesto, CA 95355-4400  
 209-525-6654  
 209-525-4668 fax

**SUTTER-YUBA**

142-A Garden Highway  
 Yuba City, CA 95991-5512  
 530-822-7515  
 530-673-5368 fax

**TEHAMA**

Mail: PO Box 370  
 Location: 1754 Walnut Street  
 Red Bluff, CA 96080-0370  
 530-527-3101  
 530-527-0917 fax

**TRINITY**

PO Box 490, County Fairgrounds  
 Hayfork, CA 96041-0490  
 530-628-5495  
 530-648-4171 fax

**TULARE**

2500 Burrel Avenue  
 Visalia, CA 93291-4584  
 209-733-6363  
 209-733-6720 fax

**TUOLUMNE**

Mail: 2 South Green Street  
 Location: 52 North Washington St.  
 Sonora, CA 95370-4617  
 209-533-5695  
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**VENTURA**

649 County Square Drive  
 Ventura, CA 93003-5401  
 805-645-1451  
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"In the 20 years of my field experience, I have never found such useful information as the material I received regarding maintenance practices and water efficiency.

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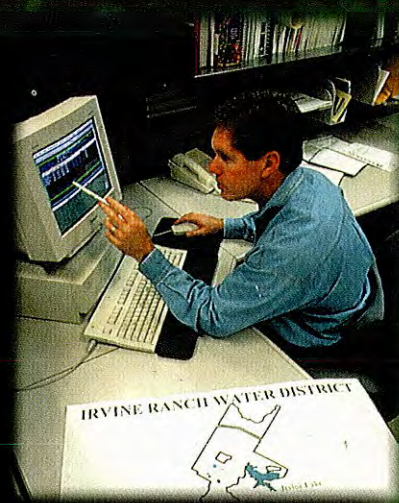
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#### *About the Author:*

**Tom Ash** has worked with the green industry as a horticulture advisor for the University of California Cooperative Extension, as a Conservation Coordinator for the Irvine Ranch Water District, and as a landscape contractor in private business. Tom now directs the development of water efficiency programs for public agencies at CTSI Corporation, a conservation service, products and implementation company. CTSI specializes in residential, landscape and CII survey, retrofit and data collection programs, incentive water rate structure development and Best Management Practice solutions.