DRAFT

County of Riverside Guide to California Friendly Landscaping









BOARD OF SUPERVISORS

John F. Tavaglione, Chairman Roy Wilson, Vice Chairman Marion Ashley Bob Buster Jeff Stone

TRANSPORTATION LAND MANAGEMENT AGENCY

Tony Carstens, Agency Director

PLANNING DEPARTMENT Ron Goldman, Planning Director

October 31, 2007



TABLE OF CONTENTS

	Page
1.	Why Do We Need This Guide?
2.	Who Does Ordinance No. 859 Apply To?
3.	What Are The County's General Landscaping Design Guidelines? 3
4.	What Should I Know Before I Prepare My Planting Plan?
5.	What Should I Know Before I Prepare My Irrigation Plan? 12
6.	What Is A Water Budget And How Is It Calculated?
7.	What Are The County's Installation And Maintenance Requirements?21
8.	How Is Recycled Water Used?
	Figures
	Figure 1 - <u>Sunset</u> Climate Zone Map 18
	Figure 2 - Water Budget Formula and Tables
	Figure 3 - Blank Water Budget Calculation Form
	Attachments

Attachment A - Riverside County California Friendly Plant List





California Friendly ® is a registered trademark of the Metropolitan Water District of Southern California. Learn more about water conservation and landscape rebate programs at: <u>www.bewaterwise.com</u>



Water Efficient Landscapes can be inviting and attractive



Fuel modification zone

Why Do We Need This Guide?

This guide is designed to assist landscape architects, irrigation designers, contractors, planners and the public in the selection of plant materials and irrigation methods that meet the objectives of Ordinance No. 859 and Ordinance No. 348. In order to conserve water in the drought prone state of California, legislation such as AB 325 and AB1881 mandates the practice of water conservation.

Riverside County's commitment to water conservation is exemplified in the adoption of standards and implementation of guidelines that result in a reduction of water usage County wide while still maintaining a high level of quality landscaping. It is the County's goal to reduce irrigation water usage by at least twenty percent (20%) per site, through implementation of this Guide to California Friendly Landscaping (Landscaping Guide). To meet this goal, Planting Plans and Irrigation Plans shall be prepared using the Water Budget Formula found on Figure 2 of this Landscaping Guide.

. Who Does Ordinance No. 859 Apply To?

- A. On December 19, 2006, the Riverside County Board of Supervisors adopted Ordinance No. 859. This ordinance and the Landscaping Guide are applicable to all discretionary permits and/or approvals for the following:
 - 1. Commercial development.
 - 2. Industrial development.
 - 3. Residential development:
 - Multi-family development
 - Single family common areas
 - Single family homes
 - Single family erosion control landscaping (slopes over 3 feet in vertical height)
 - Model homes
 - 4. Road rights-of-way.
 - 5. Parks and public lands.
 - 6. Landscaping associated with entry sign monuments.
 - 7. Fuel modification areas:
 - Applicants are encouraged to consult with the County Fire Department, determine their fuel modification requirements, and select fireresistive plant material. A detailed plan shall be prepared pursuant to specifications of the





Invasive plants are prohibited near MSHCP conservation areas.



Lantana - gold hybrid

County's Planning Department and Fire Department.

- 8. Flood Control Areas:
 - Retention/detention basins
 - Water quality swales ('bioswales')
- 9. Development adjacent to Multiple Species Habitat Conservation Plan (MSHCP) and other conservation areas:
 - Applicants are required to consult with the Environmental Programs Department (EPD) to determine acceptable plant species that may be planted within the vicinity of MSHCP conserved lands.
- B. In the event that the water purveyor for a proposed project has adopted more stringent water-efficient landscape requirements, the more stringent guidelines shall take precedence.

3. What Are The County's General Landscaping Design Guidelines?

Landscaping and proper irrigation is a critical component of any successful development project. Landscaping should define a sense of space by making a statement, ensuring community continuity, complementing good architectural design, and creating a cohesive finished product. Emphasis on California friendly design elements can achieve aesthetic objectives while acknowledging the practical water constraints of our unique geographic environment.

The Planting Plans for various development products shall incorporate the use of native planting and compatible species of drought-tolerant/water-efficient plants to reduce water demand. A rich variety of plantings and hardscape should be selected and provided appropriately for their intended use. Landscaping shall consist of plants found in the Riverside County California Friendly Plant List (Plant List) included in this Guide as Attachment A.

The following information is intended to provide guidance for single family residential, multi-family residential, commercial/ industrial/mixed-use, and park landscaping plans.

A. Single Family Residential Design Guidelines:

1. Trees, shrubs, and groundcover shall be incorporated within single-family development projects to create a comfortable and aesthetically pleasing environment for residents and those viewing from public areas.



Photo: Courtesy of Eastern Municipal Water District





Hesperaloe parviflora



California Friendly® Model Home. Photos: Courtesy of Eastern Municipal Water District





Osteospermum fruticosum

- 2. Landscape architects and designers are strongly encouraged to use clinging vines, espaliers, trellises, and shrubs to enhance the architecture and define attractive private open spaces.
- 3. Front yard areas should be designed using landscape elements pertaining to the form, horizontal and vertical lines, hardscape and softscape, and ornate qualities that are compatible with the primary structure. Visual openness and water efficiency should be maintained. Special attention shall be given to selecting appropriate trees and plants that, at their maturity, will be in scale with the house and yard.
- 4. Landscape architects and designers are encouraged to use visual focal points such as boulders, land-scape mounds, planter beds, etc.
- 5. To the extent feasible, existing mature trees and shrubs that represent the existing significant land-scaping elements shall be preserved.
- 6. Vegetative ground cover that will absorb rainwater and reduce runoff shall be used. Permeable surfaces should be used wherever possible to reduce paving.
- 7. Air conditioning, mechanical equipment, and trash enclosures should be screened from the public right-of-way with suitable plantings.
- 8. Landscaping shall be included as part of the design for a fence or wall. It should be used to soften and screen large masses of blank wall surface area and deter graffiti.
- 9. Model homes shall display a sign indicating that the home features water efficient planting and irrigation. The sign shall be displayed in the front yard and be clearly visible to home buyers.
- 10. Turf areas shall be used sparingly in response to functional needs and shall be in compliance with the Water Budget Formula (Section 6 of this Guide).
- 11. Soil amendments improve the water holding capacity of the soil, adjust soil pH, provide nutrients, and improve drainage. Agronomic soil tests are required to determine the recommended types, rates, and application methods of soil amendments. Implementation of the recommendations is required to help ensure optimum soil conditions for the specified plants.
- 12. Metropolitan Water District of Southern California (MWD) also has a California Friendly® rebate pro-





Lavatera assurgentiflora



Chitalpa tashkentensis



Photo: Courtesy of Tree of Life Nursery w<u>ww.treeoflifenursery.com.</u>

gram available for model home and front yard landscaping. MWD rebate approved plans will be deemed compliant with Ordinance No. 859 and the Landscaping Guide subject to Planning Department review.

B. Multi-Family Residential Design Guidelines:

- 1. Trees, shrubs, and groundcover should be incorporated within multi-family development projects to create a comfortable and aesthetically pleasing environment for residents and those viewing from public areas.
- 2. Landscape architects and designers are strongly encouraged to use clinging vines, espaliers, trellises, and shrubs to enhance the architecture and define useful public and private spaces.
- 3. Landscape architects and designers are strongly encouraged to integrate visual focal points such as boulders, landscaped mounds or berms, sculpture, and public art into their planting design.
- 4. Hardy native or drought tolerant trees, shrubs, and groundcover that are easy to water and maintain are encouraged.
- 5. Paved areas, especially parking lots, should be shaded.
- 6. Plans shall comply with provisions in Section 18.12 of Ordinance No. 348.
- 7. Seating options in landscaped areas should be provided. They should be constructed of durable, easycare material such as concrete and shall be treated with a graffiti resistant coating.
- 8. Entrances to alleys should be landscaped. Walls in alleys abutting residential uses shall be screened with landscaping such as clinging vines. Landscape areas adjacent and between garages in alley-loaded residential areas are encouraged.
- 9. Pedestrian walkways should be safe, visually attractive, and well defined by landscaping and lighting.
- 10. Landscaping shall be included as part of the design for the fence or wall. It should be used to soften and screen large masses of blank wall surface area and to deter graffiti.





Agronomic soil tests are required to determine the recommended types, rates, and application methods of soil amendments.



Photo: Courtesy of Tree of Life Nursery



Photo: Courtesy of Arid Zone Trees

- 11. Planting Plans shall complement the landscape elements between the proposed project, surrounding streetscapes, and adjacent publicly maintained landscaping to ensure community continuity and character.
- 12. Turf areas shall be used sparingly in response to functional needs and shall be in compliance with the Water Budget Formula (Section 6 of this Guide).
- 13. Soil amendments improve the water holding capacity of the soil, adjust soil pH, provide nutrients, and improve drainage. Agronomic soil tests are required to determine the recommended types, rates, and application methods of soil amendments. Implementation of the recommendations is required to help ensure optimum soil conditions for the specified plants.
- 14. Model homes shall display a sign indicating that the home features water efficient planting and irrigation. The sign shall be displayed in the front yard and be clearly visible to home buyers.
- . Commercial, Mixed Use, and Industrial Design Guidelines:
 - 1. Landscaping should be in scale with adjacent buildings and be of appropriate size at maturity to accomplish its intended goals. A balance of deciduous and evergreen trees should be used.
 - 2. Landscaping around the entire base of buildings (except loading or service areas) is recommended to soften the edge between the parking lot, structure(s), and street. This should be accentuated at entrances to provide a focal point.
 - 3. Berming in conjunction with landscaping should be used at the building edge to reduce structure mass and height along façades.
 - 4. Evergreen trees and shrubs shall be used whenever a landscape screen or buffer is required.
 - 5. Service areas, equipment, and solid enclosures should be screened using landscaping such as tall shrubs and clinging vines especially those properties whose side yard fronts a primary street or abuts a residential property.





Vines soften fences and walls and deter graffiti. They shall have designated valves for irrigation.



This recreation center is themed after the local wine country.



Park Master Plan and Photo



- 6. Design and locate perimeter planters and plantings for the purpose of creating a physical barrier, providing a visual screen, and shading the parking area. The parking lot and perimeter landscape should also be designed for safe and convenient pedestrian circulation throughout, including designated paths across perimeter planters.
- 7. Plans shall comply with provisions in Section 18.12 of Ordinance No. 348.
- 8. Landscaping shall be included as part of the design for the fence or wall. It should be used to soften and screen large masses of blank wall surface area and to deter graffiti.
- 9. Hardscape amenities such as benches, seating areas, and trellises, should not only be included but they should also be consistent with the landscaping.
- 10. Landscaping plans shall complement the landscape and hardscape elements between the proposed project, surrounding streetscapes, and adjacent publicly maintained landscaping to ensure community continuity and character.
- 11. Turf areas shall be used sparingly in response to functional needs and shall be in compliance with the Water Budget Formula (Section 6 of this Guide).
- 12. Soil amendments improve the water holding capacity of the soil, adjust soil pH, provide nutrients, and improve drainage. Agronomic soil tests are required to determine the recommended types, rates, and application methods of soil amendments. Implementation of the recommendations is required to help ensure optimum soil conditions for the specified plants.

C. Park Design Guidelines:

- 1. A balance of deciduous and evergreen trees should be used.
- 2. Landscaping shall be included as part of the design for the fence or wall. It should be used to soften and screen large masses of blank wall surface area and to deter graffiti.
- 3. Landscaping shall complement the landscape and hardscape elements between the proposed project, surrounding streetscapes, and adjacent publicly maintained landscaping to ensure community continuity and character.





Anigozanthos flavidus - red cultivar



Photo: Courtesy of Arid Zone Trees

- 4. Plans shall comply with provisions of Section 18.12 of Ordinance No. 348.
- 5. Seating options and drinking fountains in landscaped areas should be provided. Seating and drinking fountains should be constructed of durable, easy-care material such as concrete and shall be treated with a graffiti resistant coating.
- 6. Adequate lighting shall be incorporated into the landscape design pursuant to the prevailing local or state standards.
- 7. Sprinklers or other emitters shall be positioned so that no irrigation water shall come in contact with drinking fountains, picnic tables, benches, play-ground equipment, buildings, or other hardscape features.
- 8. Soil amendments improve the water holding capacity of the soil, adjust soil pH, provide nutrients, and improve drainage. Agronomic soil tests are required to determine the recommended types, rates, and application methods of soil amendments. Implementation of the recommendations is required to help ensure optimum soil conditions for the specified plants.
- Plans shall conform to the standards and be approved by the maintenance district responsible for perpetual maintenance.



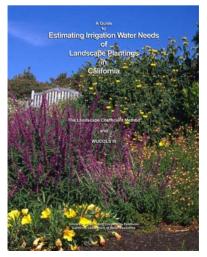
Photo: Courtesy of Arid Zone Trees

4. What Should I Know Before I Prepare My Planting Plan?

Plant species must be selected from the Plant List included as Attachment A of this Landscaping Guide. The species listed are not guaranteed for all situations. Consultation with a landscape architect, arborist, the proposed maintenance entity, or a local plant nursery is recommended.

- A. Plants shall be selected based on their level of maintenance, durability, mature widths and heights, aesthetic appeal, and thematic qualities. A greater percentage of "low" or "very low" water use plant species is strongly encouraged.
- B. Shade trees shall be provided for residential, commercial and industrial building parking lot and open space areas. They shall be incorporated to provide natural cooling opportunities and for the purpose of energy and water conservation.





The WUCOLS III guide provides estimated water uses for landscape plants. It can be downloaded from: <u>www.owue.water.ca.gov/</u> <u>docs/wucols00.pdf</u>



Organic wood mulch



Decomposed granite mulch



Regular application of mulch retains moisture and suppresses weeds. Photo: Courtesy of R Cedar, LLC

- C. In order to incorporate plant species other than those listed, the project applicant must provide the Planning Director with the following:
 - 1. Water use requirements per Water Use Classification of Landscape Species (WUCOLS III) or field data verifying the plant's landscape (crop) coefficient.
 - 2. Plant species description from Sunset Western Garden Book or other comparable source.
 - 3. Comparison to a similar species included in the plant list.
- D. Plant species must be selected based on their appropriate plant hardiness climate zones as defined by Sunset Western Garden Book. The climate zones are also depicted in Figure 1 and are noted on the Plant List included as Attachment A of this Landscaping Guide.
- E. All non-turf planting areas (except hydroseeded areas) must be mulched on a regular basis to retain moisture, suppress weeds, and moderate soil temperature. Mulch depth, type, and maintenance replenishment frequency must be noted on plans.
 - 1. Planting areas shall be mulched with three inches (3") minimum layer of organic wood mulch. (Areas of groundcover planted from flats shall be mulched with a one and one half inches (1 1/2") minimum layer of organic mulch.)
 - 2. Some maintenance districts require differing mulch thicknesses. The more stringent (thicker) requirement shall prevail.
 - 3. Color enhanced mulches are discouraged.
 - 4. Mulch may be omitted for native revegetation projects upon the recommendation of the project biologist.
 - 5. Planting areas in the desert regions (Sunset Climate Zones 11 and 13) shall be mulched with two inches layer (2") of decomposed granite (DG) /gravel mulch.
 - One inch (1") minus granite mulch is suggested for aesthetic purposes.

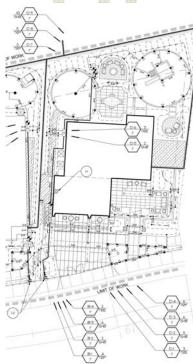


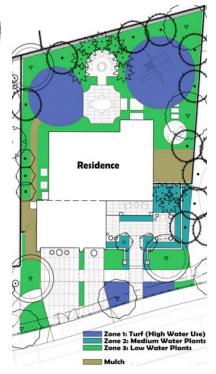


Turf serves as a recreational amenity

- F. Turf shall be used as a functional recreational element and not solely for aesthetic purposes.
 - 1. Small, irregularly shaped turf areas shall be avoided.
 - 2. Lower water use, warm season turf grasses are encouraged. Grasses such as Bermuda, which are dormant (brown) in the winter, are acceptable if the maintenance entity over-seeds with perennial rye on an annual basis during the dormancy period.
 - 3. Turf is prohibited within County road rights-of-way, unless the turf areas are contiguous to turf areas within parks, residential front yards, cemeteries or golf courses.
- G. Plants must be grouped and irrigated on separate valve zones (hydrozones) based on their water use requirements, slope aspect, and sun/shade microclimate.
- H. Shrubs shall be designed so that their mature width will not require excessive pruning. Excessive pruning is discouraged.







Hyrdozones - Plants grouped and irrigated based on water use requirements

Planting Plan

Irrigation Plan





Myoporum parvifolium



Rosmarinus officinalis



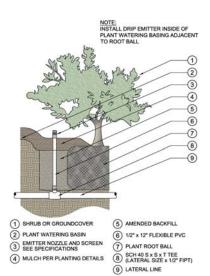
Salvia clevelandii

- I. The contractor shall tag one plant of each variety with the plant's scientific name, and cultivar or variety if applicable, and common name. This is to ensure that accurate replacement plants are installed if necessary.
- J. To prevent graffiti, self-clinging vines shall be planted to ensure full coverage of the public facing side of all walls.
- K. Plans must note or specify that a site specific agronomic soils test is required and that contractors are required to follow the report's recommendations for amending the soil. Planting specifications and details including the recommendations from the soils analysis are required if applicable. A copy of the soil test shall be delivered to the Planning Department's Landscape Section.
- L. If low water use plants (those that can also survive/flourish with medium water application) are used in a medium water use hydrozone, they must be counted as medium water use in the irrigation calculations.
- M. The Planting Plan shall be prepared at the same scale as the Irrigation Plan and, at a minimum, shall identify the following:
 - Proposed and existing trees, shrubs, ground covers, vines and turf areas indicated within the developed landscape area and within publicly maintained landscape areas within 200 feet (200') of proposed project site.
 - 2. Legend including plant symbol, genus, species, common name, spacing, size, quantity of each type of plant by container size, water use per applicable WUCOLS III Zone, and detail call-out (i.e.: P-1, P-2, P-3, etc.).
 - 3. Location of each hydrozone.
 - 4. Individual trees, shrubs, and groundcover plants at their average growth size to ensure coverage of the area to be landscaped.
 - 5. Labels for all existing trees and vegetation that will either remain or be removed.
 - 6. Location of street lights. Trees shall be located so that there is a minimum of twenty feet (20') of clearance with respect to the lights.
 - 7. Root barrier noted for trees within six feet of hardscape.
 - 8. Property lines, limit-of-work lines, streets, and street names.
 - 9. Building locations, driveways, sidewalks, and other hardscape features.
 - 10. Topographic elevation lines to determine slope.
 - 11. Appropriate four inch (4") graphic scale, title block, page numbers, and north arrow, notes, details, and specifications.





MP Rotator sprinklers are 15% more efficient than conventional spray applications.



Drip irrigation is 30% more efficient than conventional spray applications.

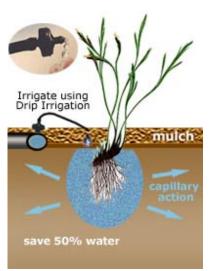


Photo: Courtesy of Northern Garden

. What Should I Know Before I Prepare My Irrigation Plan?

Irrigation systems shall be designed, constructed, managed, and maintained to achieve the highest overall efficiency possible. Efficiency is measured by the amount of water beneficially used to sustain plant life divided by the amount of water applied. Efficiency is affected by the attributes of the controller, method of irrigation, irrigation equipment, proper hydrozoning, site topography, condition and size of plants, and weather conditions.

- A. Residential Front Yard Typical Irrigation Plans must demonstrate that sufficient capacity exists on the specified irrigation controller to supply adequate additional zones for future side and backyard landscaping. More than one controller per residential unit shall be avoided.
- B. High efficiency irrigation methods (e.g. drip, MP rotators, microprays) are encouraged.
- C. Rotors and spray heads shall be designed and installed with minimized overspray onto paved surfaces, structures, and non-vegetated areas. The design shall be head-to-head coverage with matched precipitation heads and a maximum of fifty percent (50%) diameter overlap. Rotors and spray heads shall be zoned separately. Half rotors and full rotors shall be zoned separately unless matched precipitation nozzles are used.
- D. For drip line installations, in-line pressure regulators shall be used per factory recommendations for the specific irrigation products being used. If drip line is being installed, it must be filtered at the valve along with any other necessary equipment.
- E. Irrigation systems shall be zoned according to plant water use, slope aspect, and sun/shade microclimate. If low water use plants (that can also survive/flourish with medium water application) are used within a medium water use hydrozone, they must be counted as medium water use in the irrigation calculations.
- F. Low head drainage is not permitted. Check valves are recommended.
- G. With the exception of single family residential units, all irrigation plans shall be designed for recycled water in areas that are scheduled for recycled water in the future.



How Can I Find A "Smart" Controller?

The Irrigation Association regularly tests "smart" controllers and provides a list of recommended controllers for commercial or private use. Below are the tested and recommended smart controllers from the Association's 2007 list. For more information and a current list of controllers, see the Irriga-Association's web site tion at: located <u>http://</u> www.irrigation.org/SWAT/ Industry/ia-tested.asp

- Alex-Tronix Enercon Plus
- Alex-Tronix Smart Clock
- Aqua Conserve Aqua ET-9
- Calsense ET2000e
- ETwater Smart Controller
- Hunter ET System
- Irritrol Smart Dial
- Rain Bird ET Manager
- Rain Master RME Eagle
- Toro Intelli-Sense
- Weathermatic SL1600

- H. Projects must include a "smart" irrigation controller with the following attributes:
 - 1. Real-time, weather based program adjustment capability.
 - 2. Project must have an on-site weather station or external ETo input.
 - 3. Rain sensors shall placed within an unobstructed natural rainfall area and shall be located above the irrigation spray pattern.
 - 4. Master valve (or simultaneous operations).
 - 5. Flow Sensor.
 - 6. Multiple start times.
 - 7. Minimum of two programs.
- H. Systems shall be scheduled so that the irrigation precipitation rate does not exceed the infiltration rate of the soil.
- I. A baseline irrigation schedule shall be provided on the plans for the six-month initial plant establishment period. The contractor shall adjust the schedule to meet site specific requirements and use the baseline schedule to set the weatherbased controller. The schedule currently in effect shall be posted in the controller.
- I. A second baseline irrigation schedule shall be provided on the plans which incorporates the specific water needs of the plants throughout the post-establishment calendar year. The contractor shall adjust the schedule to meet site specific requirements and use the baseline schedule to set the weatherbased controller. The schedule currently in effect shall be posted in the controller.
- J. The irrigation schedules shall include the recommended irrigation days per week, number of cycles per day, minutes of run times per cycle, and estimated amount of applied irrigation water, expressed in gallons per month and gallons per year.
- K. The controller shall be operational and set to real-time weather prior to the completion of the 90-day maintenance period of the installing contractor.
- L. Pressure loss calculations for valve with worse condition.
- M. Commercial projects shall include a Central Controller programmed to distinguish irregular flows (e.g. broken valve,





Standard low-emission bubbler.



Standard low-emission hub.



One of many "smart controller" options.

line, spray head, etc.), temporarily shut off the affected branch or the entire system, and send an immediate electronic message to the maintenance entity.

- N. The Irrigation Plan shall be prepared at the same scale as the Planting Plan and, at a minimum, shall identify the following:
 - 1. Location and size of service lateral(s).
 - 2. Location and size of water meter(s).
 - 3. Point of connection (POC) location and static pressure at POC.
 - 4. Total flow rate (gallons per minute) and designed operating pressure (psi) for each overhead spray and bubbler circuit, and total flow rate (gallons per hour) and design operating pressure (psi) for each drip and low volume irrigation circuit.
 - 5. Location, size, and type of all irrigation components including, but not limited to, smart controller, central controller (backflow prevention device, ball valves, anti-drain check valves, pressure supply (main) line, lateral lines, pipe sizing, valves, spray heads, rotors, drip, low volume irrigation equipment, gallons per minute, pressure regulators, and pumps. Water sense components are strongly recommended.
 - 6. Hydraulic Calculation worksheet including flow rate (gallons per minute) and design operating pressure.
 - 7. Precipitation rate (inches per hour) for each spray type circuit.
 - 8. Irrigation legend with the symbol, manufacturer name, model number (or non-proprietary description for publicly funded projects), separate symbols for irrigation equipment with different spray patterns, spray radius, and precipitation rate.
 - 9. Location of each hydrozone.
 - 10. Topographic elevation lines to determine slope.
 - 11. Irrigation system details for assembly and installation.
 - 12. Calculation for the project's landscape Water Budget. (Section 6 of this Guide).





6. What Is A Water Budget And How Is It Calculated?

Water budgets are used to assist designers and governing authorities. They are a tool to verify compliance with the state requirements for water conservation and they assist with water demand management. A water budget determines how much water a particular landscape needs over a specified period of time. The Maximum Annual Water Allowance (MAWA) is calculated and compared to the Estimated Annual Water Use (EAWU) to verify that the project landscaping is not exceeding the allowed wateruse.

The County of Riverside uses the formula and tables included in Figure 2 to determine water budgets. Figure 2, the information below, and the sample worksheet following are designed to assist you in calculating a Water Budget for inclusion in your Irrigation Plan.

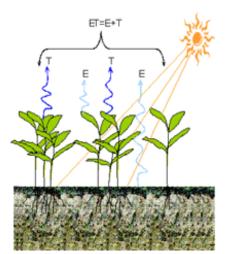
A. Maximum Annual Water Allowance and Evapotranspiration Rate (ETo).

ETo, or Annual Reference Evapotranspiration Rate, is the quantity of water evaporated from adjacent soil surfaces and transpired by plants in terms of inches for a particular climate zone. Your total square footage of landscape and ETo are essential components of the MAWA formula.

Because ETo rates vary according to climate, the ETo rate must be identified for your project in order to calculate MAWA. ETo data is taken from the California Irrigation Management Information System (CIMIS). Table 1 on Figure 2 will help you find your ETo for insertion into Space B of your landscape water budget formula. If your project is not within one of the weather station areas listed, use the closest representative station.

B. Estimated Annual Water Use (EAWU).

The formula for EAWU is calculated for each hydrozone separately, then the total of all hydrozones is divided by the Irrigation System Operation Efficiency (IS). In addition to the square footage of each hydrozone, the EAWU calculation relies on several other key factors. One is the average Plant Factor (PF) that is established by the WUCOLS III for plants that are considered high, medium, low, and very low based on their water requirements. For purposes of the Water Budget Formula, turf is considered to have a high water requirement. Refer to Table 2 to establish your PF for each hydrozone and enter the number in Space D of your Water Budget Formula on Figure 2.



Evapotranspiration is the loss of water to the atmosphere from plants and soil.





Photo: Courtesy of Tree of Life Nursery

Photo: Courtesy of Tree of Life Nursery



Matilija Poppy. Photo: Courtesy of Peter Odencrans

The water use requirements also vary according to regional climate zones. Plant categories used in the calculation must be from the appropriate WUCOLS Regional Zones as defined below and the corresponding Sunset Zones found on Figure 1 of this Landscaping Guide:

		a 11 11
	~ .	S
WUCOLS III	Corresponding	91111
a na mana mana mang kana mang k		
Region	Sunset Zones	
Region	Sunset Zones	
	A A 1 A 1 F 1 C 17	\$ 1 - 2 + -
n den fan fan fan fan fan fan fan fan fan fa	2,3,14, 15, 16, 17	11111
2	8.9	
4	0, /	51.51
3	22, 23, 24	9494
)	22, 23, 24	
	10 10 00 01	
4	18, 19, 20, 21	01010
5	11	
2	11	0 III II
<u>,</u>	1.3	1997
6	13	
		211
	11000000000000000000000000000000000000	

Another key factor in calculating EAWU is the Irrigation Efficiency (IE). The IE is derived from measurements and estimates of the irrigation application method performance within controlled environmental conditions. Table 3 provides the IE factor to be used in Space F of the Water Budget Formula on Figure 2.

The final factor in calculating EAWU is the Irrigation System Operation Efficiency. This number is derived from the efficiency of the controller. Since "smart" controllers are required by the County per Ordinance No. 859, the IS factor shall be 0.85. This figure has been inserted in the Water Budget Formula for you.

An EAWU calculation must be performed for each hydrozone within the proposed project.

C. Finalizing the Water Budget Calculations.

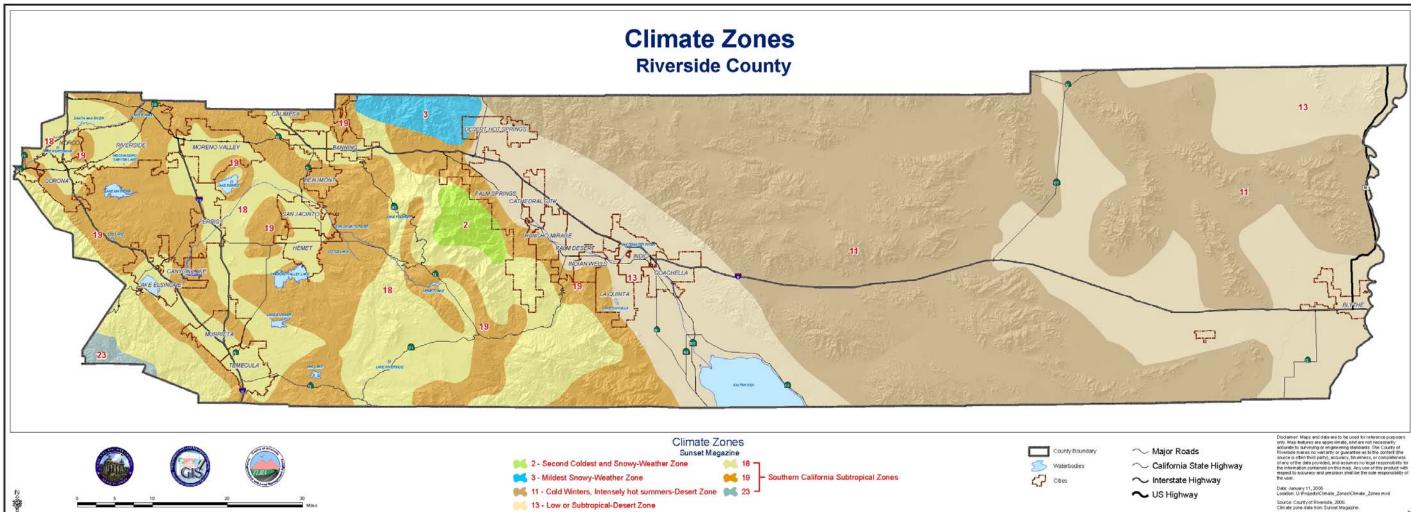
Add together the EAWU subtotals for each hydrozone within the proposed project, this will be the Sub-Total EAWU. Now, divide this number by 0.85. The resulting number will be the Total EAWU. Subtract the Total EAWU number from the MAWA. The resulting number must be positive. If the number is negative, then adjustments will need to be made to the Planting Plan (e.g. use more vegetation types that consume less water) and/or the Irrigation Plan (e.g. use more efficient application methods).

A Water Budget Formula shall be completed and included on all Irrigation Plans submitted to the County. A blank Water Budget Form is provided as Figure 3 and may also be downloaded from the Landscape Review link on the County Planning Department website: <u>www.tlma.co.riverside.ca.us/</u> <u>planning.</u>



This page intentionally left blank.







COLORED BOXES ARE DATA ENTRY FIELDS. FACTORS USED IN WATER BUDGET FORMULA

CHART 1: FINDING YOUR ETO Insert Your Number in Space B of the Landscape Water Use Calculation Sheet

CIMIS Station	Name	Reference ETo
24	Thermal	73.03
25	Rancho Mirage	71.40
34	Rancho California	49.54
36	Blythe	71.40
44	UC Riverside (Riverside)	56.37
55	Palm Desert	72.77
62	Temecula	66.14
118	Cathedral City	57.06
130	Temecula East	49.54
135	Blythe Northeast	70.80
136	Oasis	71.40
141	Mecca	62.68
151	Ripley	71.40
154	Salton Sea North	71.65
162	Indio	71.4
176	La Quinta	71.4
179	Winchester	57.33

CHART 2: DETERMINING YOUR PLANT FACTOR (PF) Insert Your Plant Factor in Space D of the Landscape Water Use Calculation Sheet

Plant Category	Average PF	
High	0.8	
Medium	0.5	
Low	0.2	
Very Low	0.1	

CHART 3: LOCATING YOUR IRRIGATION EFFICIENCY (IE) FACTOR Insert Your Number in Space F of the Landscape Water Use Calculation Sheet

Application Method	IE Factor
Drip	0.90
Bubblers	0.85*
MP Rotators	0.75
Rotors	0.75
Microsprays	0.70
Spray Heads	0.60
Vith proper run times	

FIGURE 2 WATER BUDGET FORMULA AND CHARTS

INSTRUCTIONS FOR FILLING OUT WATER BUDGET FORMULA

1. TO FIND MAWA

STEP 1: Calculate your total square footage of the landscape area and insert that number into Space A. (Round the number to the nearest hundred).

STEP 2: Find your city on the Reference Evapotranspiration Chart (1) and insert the number in Space B.

STEP 3: Multiply A x .62 x B x .8, put the answer in space C and divide by 748. This gives you your MAWA in gallons.

2. TO FIND EAWU FOR EACH HYDROZONE

STEP 1: Find your plant factor (CHART 2) for the hydrozone remembering to use the highest plant factor per hydrozone. If you have medium and a low in the same hydrozone, the factor is medium. Place that number in Space D.

STEP 2: Calculate your square footage for the hydrozone (Round to the nearest hundred) and put number in space E. Next, insert the hydrozone irrigation efficiency number from (CHART 3) into Space F.

STEP 3: Multiply ETo (From Chart 1) x D x E x 0.62, then divide that number by F x 748. This will give you the EAWU number for Space G.

STEP 4: Repeat steps 1-3 for each hydrozone.

STEP 5: Add all G's and put number into Space H.

STEP 6: Divide H by .85 and that will give you your Total EAWU (Space I). This is the irrigation system operating efficiency.

STEP 7: To find J, Subtract I (EAWU) from MAWA and that will give you the total water use for the project. The resulting number must be positive.

BE SURE TO RUN EAWU CALCULATION FOR EACH HYDROZONE WITHIN YOUR PROJECT.

1. MAXIMUM ANNUAL WATER ALLOWANCE (MAWA)

INPUT the Hist. ETo for the area =

2. ESTIMATED ANNUAL WATER USE (EAWU)

Hydrozone # 1	e	
	INPUT so	quare hydro
	F hydrozone efficiency =	
EAWU =	G	gal /

Total Your Hydrozones

G	+	G
0		-

Finding Total (EAWU)

SubTotal EAWU = Input Irrigation System Operation

Finding Your Total Allowance

MAWA - EAWU =



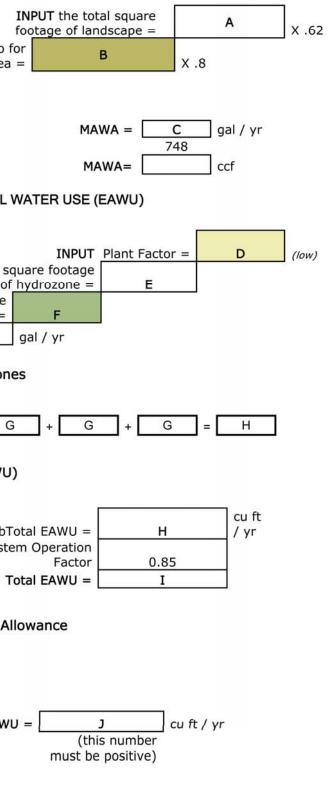
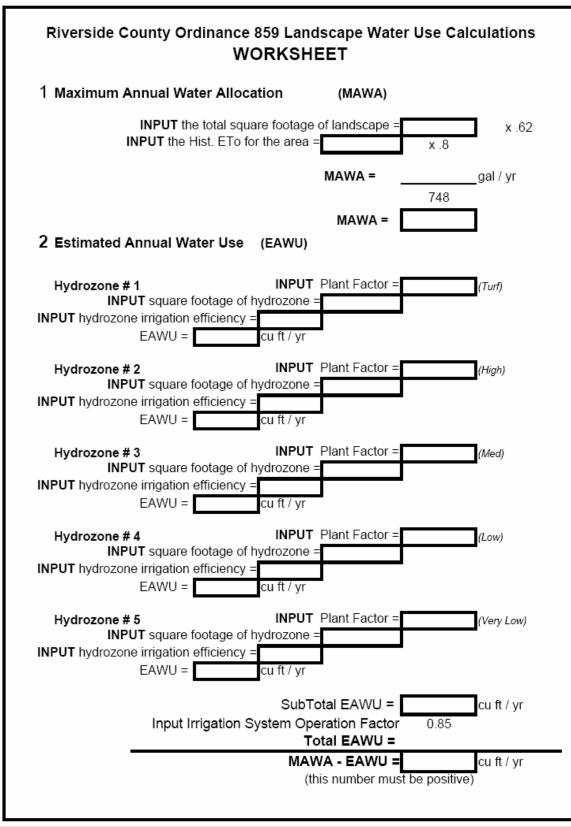




FIGURE 3

The following blank work sheet may be modified as-needed for each project and shall be included on all Irrigation Plan submittals.







Inspectors will confirm that plants are installed per approved plans and are thriving. Photo: Courtesy of Toyon Landscape



Inspectors will verify that the irrigation system is installed properly and functioning.



7. What Are the County's Installation and Maintenance Requirements?

Correct installation and consistent landscape maintenance is paramount to water efficient landscaping and water conservation. Regardless of the efficiency of the irrigation design and installation, a landscape can quickly lose its efficiency and aesthetic appeal without proper maintenance. To ensure that the Planting and Irrigation Plans are installed properly and maintained throughout a minimum plant establishment period, the County Planning Department will conduct the following series of site visits:

A. Installation Inspection



Personnel will, at a minimum, confirm that the irrigation system is installed according to the approved Irrigation Plan, the soil preparation and landscaping is completed as indicated in the approved Planting Plan, the project has met its Conditions of Approval, and the performance security has been approved and executed. Upon successful completion of this Installation Inspection, a Certificate of Completion will be issued to the project applicant.

B. Six Month Establishment Inspection

Personnel will, at a minimum, confirm that the irrigation system is operating at its maximum efficiency, the plantings are alive, the current irrigation schedule is posted in the controller, and any replacement components of either the landscape or irrigation reflect the original approved Irrigation and Planting Plans.

C. One Year Post-Establishment Inspection

Personnel will, at a minimum, perform an irrigation audit to confirm that the irrigation system is functioning properly and operating at its maximum level of efficiency, verify that plants are established and thriving, and ensure that the postestablishment irrigation schedule is programmed and posted in the controller, and confirm that any remaining Conditions of Approval are met. If components of either the irrigation system or the landscape have been replaced, personnel will confirm that their replacement components reflect the original approved Irrigation and Planting Plans. Upon successful completion of the Post-Establishment Inspection, the landscaping/irrigation component of the performance bond will be deemed complete.





Photo: Courtesy of Toyon Design



Consult with the governing water purveyor for recycled irrigation water requirements.



Photo: Courtesy Eastern Municipal Water District.

This Landscaping Guide was prepared in association with:



VAN DYKE LANDSCAPE ARCHITECTS 2970 Filth Avenue #240 | San Diego, CA 92103-5995 Tet: (619) 254-8484 | Fax: (619) 574-0628

- D. At the Planning Director's discretion, projects may be required to maintain an annual maintenance inspection schedule to ensure that the following obligations are met:
 - 1. Smart controllers are monitored and adjusted for maximum operating efficiency and irrigation application equipment is calibrated to provide maximum efficiency.
 - 2. Non-functioning irrigation and hardscape components are replaced with identical or better components.
 - 3. Plant materials that fail to thrive are replaced with identical plant materials or those with similar water requirements.
 - 4. Minimum mulching levels are maintained.
 - 5. Plants are pruned to eliminate irrigation application interference.
- E. At the Planning Director's discretion, projects may be required to provide a security deposit that covers the cost of the planting and irrigation. Upon successful completion of a one-year inspection, the deposit shall be released.

8. How is Recycled Water Used?

Recycled water determined to be available pursuant to Section 13550 of the California State Water Code shall be used for appropriate non-potable uses whenever it: a) provides a beneficial use to the customer, b) is economically and technically feasible, c) is consistent with applicable regulatory requirements, and d) is in the best interests of public health, safety, and welfare. With the exception of non-common areas of single-family home residential developments, irrigation systems must be designed and installed to accommodate the current or future use of recycled water for irrigation. Such plans shall be developed in accordance with standards and policies of the applicable recycled water purveyor. Recycled water systems shall be designed to meet regulatory requirements of the California Department of Public Health and the local recycled water purveyor.

For more information concerning this Landscaping Guide, please contact:

Kristi Lovelady, Administrative Manager Riverside County Planning Department Landscape Program 951-955-0781



This page intentionally left blank.

Attachment A

County of Riverside California Friendly Plant List

COUNTY OF RIVERSIDE CALIFORNIA FRIENDLY PLANT LIST	Common	Wucols Region 1	Wucols Region 2	Wucols Region 3	Wucols Region 4	Wucols Region 5	Wucols Region 6	Sunset Zones	Mature Height (Feet)	Mature Width (Feet)	Road Right-of-Way	Medians* (pending project)	Erosion Control / Slope	Fuel Mod. *(pending F.D.)	MSHCP Adjacent	Water Quality (Bio) Swale Swale Location
TREES																
Acacia aneura	Mulga	/	?	?	?	/	L	8, 9, 12-24	15'-20'	15'-20'	1	<	<			
Acacia farnesiana	Sweet Acacia	?		L	L	/	L	13-24	20'	15'-25'	 ✓ 	√	 ✓ 			
Acacia salicina	Willow Acacia	L	L	L	M	/	M	8, 9, 12-24	20'-40'	15'	✓ ✓	 ✓ 	× (
Acacia stenophylla Aesculus californica	Shoestring Acacia California Buckeye	VL	L	L VL	L	/	L	8, 9, 12-24	30'	20' 30'	✓ ✓	✓	✓ ✓		/ /	
Agonis flexuosa	Peppermint Tree	L		L	M	/	/	3-10, 14-24 15-17, 20-24	10'-20' 25'-35'	15'-30'	▼ ✓	1	• •		· ·	Upper
Albizia julibrissin	Silk Tree	L	L	M	M		M	4-23	40'	40'	• •	•	· ·		· ·	
Arbutus unedo	Strawberry Tree	L		L	L		M	8-24	8'-35'	8'-35'	· •	1	· •			
Bauhinia forficata	Brazilian butterfly tree	M	-				/	9, 12-23	20'	20'	1		~			
Bauhinia variegata (purpurea)	Purple orchid tree	M		M			M	13, 18-24, H1, H2	20'-35'	20'-35'	1		<			
Bauhinia X blakeana	Hong Kong orchid tree	М	1	М	М	_	М	13, 19, 21, 23, 24, H1, H2	20'	20'	1		✓			
Brachychiton populneus	Bottle Tree	L	L	L	L	Μ	М	12-24	30'-50'	30'	1	<	<			
Brahea armata	Blue Hesper Palm	L	?	М	?	?	?	10, 12-17, 19-24, H1	20'-40'	12'-25'	1		<			
Brahea edulis	Guadalupe Palm	L	?	L	L	L	L	12-24	30'	15'	✓		✓			
Butia capitata	Pindo Palm	L	L	L	L	L	L	8, 9, 12-24, H1, H2	10'-20'	10'-15'	<		✓			
Caesalpinia cacalaco	Cascalote	?	?	?	?	/	L	12, 13, 21-24	20'	20'	1	✓	✓		~	
Callistemon citrinus	Lemon Bottlebrush	L	L	L	L	/	Μ	8, 9, 12-24, H1, H2	10'-15'	10'-15'	1	✓	✓	•	~	
Callistemon viminalis	Weeping Bottlebrush	L	L	М		_	М	6-9, 12-24	20'-30'	15'	1	1	✓			
Calocedrus decurrens	Incense Cedar				-	-	-	2-12, 14-24	75'-90'	10'-15'			✓	 *	~	
Cassia leptophylla	Gold Medallion Tree	L	L	M	М	_	/	15, 16, 20-24, H1, H-2	20'-25'	30'	~					
Cedrus deodara	Deodar Cedar	L	M VL		M	M	M	3b-10, 14-24	80'	40'	1		< <		-	
Cercidium floridum (Parkinsonia florida) Cercidium microphyllum	Blue Palo Verde	VL	VL	-	L	/	L	8-14, 18-20 8-14, 18-20	35' 20'	30' 20'	✓ ✓		× ×		v v	
Cercidium microphylium Cercidium praecox	Sonoran Palo Verde	/		VL		/	L	12, 13, 18-20	20	20	▼ ✓		• ✓		·	-
Cercis occidentalis	Western Redbud	VL	-	-		/	/	2-24	10'-18'	10'-18'	• •	1	• •		· ·	
Chilopsis linearis	Desert Willow		VL	-	L	M	M	3b, 7-14, 18-23	15'-30'	10'-20'	· •	· ·	· •		· • •	 Upper
Chitalpa tashkentensis	Chitalpa	L	-	-	L	L	M	3-24	20'-30'	20'-30'	1	1	<	•	~	PP
Chorisia speciosa	Floss Silk Tree	L	/	L	L	1	М	12-24, H1, H2	30'-60'	30'-60'	1		<			
Cinnamomum camphora	Camphor Tree	М	/	М	М	/	М	8, 9, 12-24, H1, H2	50'	60'	1		<			
Cotinus coggyria	Smoke Tree	L	L	L	L	L	/	2-24	12'-15'	12'-15'	1		<	,	~	
Cupaniopsis anacardioides	Carrot Wood	М		М	М	/	/	16-24, H1, H2	40'	30'	✓		✓			
Cupressus sempervirens	Italian Cypress	L	М	L	L	Μ		4-24, H1, H2	60'	5'-10'	<		✓		~	
Dalbergia sissoo	Sissoo Tree	/	/	/	/	/	М	13, 19, 21-24, H1, H2	25'-50'	35'-50'	1		✓		~	
Dracaena draco	Dragon Tree	L	/	VL		/	/	16, 17, 21-24, H1, H2	20'	20'			✓		~	
Elaeocarpus decipiens	Japanese Blueberry Tree	М		М			?	8, 9, 14-24, H1	30'-60'	20'-30'	✓		✓	*	~	
Eriobotrya deflexa	Bronze Loquat		M	-	-	/	M	8-24	15'-30'	15'-30'	~	✓	< <		_	
Erythrina americana (E. coralloides) Erythrina X sykesii	Naked Coral Tree	/	/	L	L	/	/	12, 13, 19-24	30'	30'			✓ ✓			
Erythryna X bidwillii	Sykes Coral Tree Coral Tree	/ L	/	L	L	/	/	19-24 8, 9, 12-24	24'-30' 24'-30'	24'-30' 24'-30'			× ×		✓ ✓	
Eucalyptus citriodora	Lemon Scented Gum	L	L /	L	M	/	M	5, 6, 8-24, H1, H1	45'-90'	15'-45'	~		* *		-	-
Eucalyptus microtheca	Coolibah Tree		L	L	L	M		5, 6, 8-24, H1, H2	30'-60'	24'-54'	• ✓		 			
Eucalyptus papuana*	Ghost Gum	L	L	L	L	M		5, 6, 8-24, H1, H2	30'-54'	24'-45	· •		·			
Eucalyptus polyanthemos	Silver Dollar Gum	L					M	5, 6, 8-24, H1, H3	30'-75'	15'-45'			1			
Eucalyptus torguata	Coral Gum	L		L			М	5, 6, 8-24, H1, H2	18'-36'	15'-30'	1		<			
Ficus microcarpa	Indian Laurel Fig	М	/	М	М	1	Μ	9, 13, 16-24, H1, H2	60'	75'				•	~	
Fraxinus greggii*	Little Leaf Ash	М	М	Μ	М	Μ	М	10-13	25'	20'	1		<	,	1 1	 Upper
Fraxinus uhdei	Shamel Ash		М				Н	9, 12-24	25'-80'	15'-60'	<		<		1	 Upper
Fraxinus velutina	Arizona Ash	М	М					3b-24	30'-50'	30'-40	✓		✓		1 1	 Upper
Geijera parviflora	Australian Willow						М	8, 9, 12-24	25'-30'	20'	✓	✓			✓	
Ginkgo biloba	Maidenhair Tree	М	М					A3, 1-10, 12, 14-24	35'-50'	15'-25'	1		✓	¥	~	
Gleditsia triacanthos	Honey Locust	L	L	-		-		1-16, 18-20	35'-70'	25'-35'	1		✓			
Jacaranda mimosifolia	Jacaranda		Μ			/	Μ	12, 13, 15-24, H1, H2	25'-40'	15'-30'	✓		 ✓ 			
Juglans californica	S. Califonia Black Walnut	M	-	L	L	/	/	18-24	15'-30'	15'-30'	1		< <		✓ ✓	
Juniperus californica	California Juniper	L	L				M	3, 6-12, 14-24	10'-40'	10'-40'	×		< <		✓ ✓	
Juniperus scopulorum 'Tolleson's Weeping' Koelreuteria bipinatta	Tolleson's Weeping Juniper Chinese Flame Tree	L	L		M		M	1-24 8-24; H-1	20' 20'-40'	10' 20'-40'	 Image: A start of the start of		× ×		✓ ✓	
Koelreuteria paniculata	Golden Rain Tree		M	-	L	_	M	A2, 2-24	20'-40	20-40			< <		v /	
Lagerstroemia indica	Crape Myrtle	L		-	M			7-10, 12-14, 18-21, H1, H2	20-35	25-40	▼ ✓	 Image: A start of the start of	• •		· ·	
Lagunaria patersonii	Primrose Tree	L	/	L	L	/	/	13, 15-24, H1, H2	20'-50'	40'			· ·		· ·	
Laurus nobilis 'Saratoga'	Sweet Bay	L	Ĺ	L	L	M	M	5-9, 12-24, H1, H2	12'-40'	12'-40'	1	1	~		~	
Leucanea retusa*	Golden Ball Lead Tree	1	L	L	L		M	10-13	12'-20'	12'-20'	1		✓	,	~	
Liquidambar styraciflua (seedless var.)	Sweet Gum	М	М					3-9, 14-24	60'	20'-25'	1	1		,	~	
					-	_										
Lithocarpus densiflorus	Tanbark Oak	L	/	L	L	/	1	4-7, 14-24	40'-80'	30'-50'	1		✓	,	<	
	Tanbark Oak Catalina Ironwood Desert Fern (feather bush)	L L ?	-	L VL L		/	/ / M	4-7, 14-24 14-17, 19-24	40'-80' 20'-35'	30'-50' 15' 12'-15'	✓		< < <	v	✓ ✓ ✓	

C C/

COUNTY OF RIVERSIDE CALIFORNIA FRIENDLY PLANT LIST	Common	Wucols Region 1	Wucols Region 2	Wucols Region 3	Wucols Region 4	Wucols Region 5	Wucols Region 6	Sunset Zones	<i>Mature Height (Feet)</i>	Mature Width (Feet)	Road Right-of-Way	Medians* (pending project)	Erosion Control / Slope	^c uel Mod. *(pending F.D.)	MSHCP Adjacent	Water Quality (Bio) Swale	Swale Location
TREES	Common							Sunset Zones	_	_	-	-		-	-		•,
					1		<u> </u>		1		1	1		<u>r – </u>			
Magnolia grandiflora	Magnolia Species	M	M		M	/	H /	4-12, 14-24, H1, H2	Varies	Varies 20'-25'	✓ ✓		1		✓ ✓		
Melaleuca linariifolia Melaleuca nesophila	Flax Leaf Paper Bark Pink Melaleuca		L	L	L	/	/	9, 13-24, H1 13, 16-24, H1	20'-30' 15'-20'	20-25 15'-20'	×		✓ ✓		✓ ✓		
Melaleuca guinguinervia (M. vir. Rubifolia)	Cajeput Tree	L	L	M		1	M		20'-40'	15'-25'	1		• •		•		_
Nerium oleander	Oleander (Tree Form)	L	L	L	L	M		8-16, 18-24, H1, H2	20'	12'	1	1	1				
Olea europaea 'Swan Hill'	Fruitless Olive	VL	VL	L	L	М	М	8, 9, 11-24, H1, H2	25'-30'	25'-30'	1		1				
Olneya tesota	Ironwood	/	/	/	/	L	L	8, 9, 11-14, 18-23	15'-30'	15'-30'	_		✓		✓		
Phoenix canariensis	Canary Island Date Palm	L	L	L	L	М		8, 9, 11-24, H1, H1	60'	50'	1						
Phoenix dactylifera	Date Palm	L	L	L	L	М		8, 9, 11-24, H1, H2	80'	20'-40'	-						
Pinus attenuata	Knobcone Pine	L	L	L	L	/	/	2-10, 14-21	20'-80'	20'-25'	✓		✓		✓		
Pinus brutia (eldarica)	Calabrian Pine	L	L	L	L	M		6-9, 12-24	30'-80'	15'-25'			✓ ✓		✓ ✓		
Pinus canariensis Pinus coulteri	Canary Island Pine Coulter Pine	L	L	L	M	M		8,9, 12-24 3-10, 14-23, H1	50'-80' 30'-80'	20'-35' 20'-40'	V		✓ ✓		✓ ✓		
Pinus edulis	Pinyon Pine	L	L	VL	L	L	/	1-11, 14-23, H1	10'-20'	20-40 8'-16'			v √		 ✓ 		
Pinus halepensis	Aleppo Pine	L	L	L	L	L	· ·	7-9, 11-24	30'-60'	20'-40'			• •		•		
Pinus monophylla	Single Leaf Pinyon Pine	L	/	L	L	L	-	2-12, 14-21	10'-25'	10'-15'			 ✓ 		1		
Pinus sabiniana	Gray Pine		VL			/	1	3-10, 14-21	40'-80'	30'-50'			1		1		
Pistacia chinensis	Chinese Pistache	L	L	М		Μ	М	4-16, 17, 18-23	30'-60'	30'-60'	1		1				
Pithecellobium flexicaule	Texas Ebony	?	?	/	?	/	L	10 - 13	15'-30'	15'-20'	1	1	✓		✓		
Pittosporum phyloraeoides	Willow Pittosporum	М	М	L	L	/	М	8, 9, 12-24	12'-20'	10'-15'	1	<	<		<		
Platanus acerifolia	London Plane Tree	М						2-24	40'-80'	30'-40'	1				✓	✓	Upper
Platanus racemosa	California Sycamore				М			4-24	30'-80'	20'-50'	1			✓	1	✓	Upper
Platanus wrightii	Arizona Sycamore	М	?	М				8-12	80'	55'	✓				1	✓	Upper
Podocarpus gracilior (Afrocarpus grac.)	Fern Pine				М			8, 9, 13-24, H1, H2	20'-60'	10'-20'					√ √		
Podocarpus henkelii	Long Leafed Yellow Wood Yew Pine	M	H M					8, 9, 14-24, H1, H2	30'-50'	15'-20'	✓ ✓				✓ ✓		
Podocarpus macrophyllus Populus fremontii	Fremont Cottonwood						M H	4-9, 12-24, H1, H2 1-12, 14-21	15'-50' 40'-60'	6'-15' 30'	✓ ✓				✓ ✓	~	Upper
Prosopis alba	Argentine Mesquite	/	L	L	L	М	-	10-13, 18-24	40-60 50'	50'	✓		~		•	•	Opper
Prosopis chilensis	Chilean Mesquite	1	L	L	L	L	L	10-13, H1, H2	50'	50'	1		· •				
Prosopis glandulosa	Honey Mesquite	1	L	L	L	L	L	10-13, 18-24	30'-50'	30'-50'	1		1				
Prosopis juliflora	Arizona Mesquite	?	?	L	L	L	L	10-13, 18-24	30'-35'	30'-35'	1		1				
Prosopis pubescens	Screwbean Mesquite	/	L	L	L	М	М	10-13, 18-24	30'-35'	30'-35'	1		✓				
Prosopis velutina	Velvet Mesquite	/	L	L	L	М	-	10-13, 18-24	30'-35'	30'-35'	1		✓				
Prunus caroliana	Carolina Laurel Cherry	L	L	М			-	5-24	20'-30'	15'-25'	1	✓	✓		✓		
Prunus cerasifera	Purple Leaf Plum	L	М			М		3-22	25'-35'	25-'35	1	1	✓				
Prunus ilicifolia	Hollyleaf Cherry	L	L	VL	VL	/	/	5-9, 12-24	10'-25'	10'-25'	1	✓	✓	✓	✓		
Prunus ilicifolia Iyonii	Catalina Cherry	L	L	L	L	/	/	5-9, 12-24	45'	30'		~	✓ ✓	1	√ √		
Punica granatum	Pomegranate Coast Live Oak	L	L			M	M	5-24, H1, H2 7-9, 14-24	8'-10'	8'-10'	 ✓ 		✓ ✓	 Image: A start of the start of	✓ ✓	~	
Quercus agrifolia Quercus chrysolepis	Canyon Live Oak	VL	VL L	L	L	/	IVI /	3-11, 14-24	20'-70' 20'-60'	20'-70' 20'-60'	×		✓ ✓	~	✓ ✓	✓ ✓	
Quercus engelmanii	Mesa Oak	/	L	L	L	/	/	7-9, 14-24	40'-50'	80'-100			• •	1	• •	•	
Quercus ilex	Holly Oak	L	L	L	L	M		4-24	30'-60'	30'-60'	1		✓		1	· イ	
Quercux kelloggii	California Black Oak				M		-	6-7, 9, 14-21		30'-80'				1	1		
Quercus lobata	Valley Oak	L	L	1	М	1	1	3b-9, 11-24	70'	70'			1	1	✓	✓	
Quercus suber	Cork Oak	L			L	L		5-16, 18-24	30'-60'	30'-60'	1		✓		✓	1	
Quercus virginiana	Southern Live Oak				М			4-24	40'-80'	80'-100	1		✓		✓	✓	
Quercus wislizeni	Interior Live Oak				VL			7-9, 14-16, 18-21	30'-75'	30'-75'			✓		✓	✓	
Rhaphiolepis indica 'Majestic Beauty'	Majestic Beauty Hawthorn	L			М			8-10, 12-24, H1, H2	20'-25'	8'-10'	1	✓	✓		✓		
Rhus lancea	African Sumac	L	L	L	L		М	8, 9, 12-24	20'-30'	20'-35'			✓				
Robinia neomexicana*	Desert Locust	L	L	L	L		М	2, 3, 7-11, 14, 18-24	6'-30'	6'-30'	 ✓ 		✓ ✓				
Robinia x ambigua Sabal 'Riverside'	Locust Riverside Palmetto	L	L	L		M	M	2-24 12-17, 19-24, H1, H2	40'-50' 20'	20' 10'	~		✓ ✓		1		
Sambucus mexicana	Mexican Elderberry	L	L	L	L	/ M	M	2-24, H1, H2	10'-30'	8'-20'	1		• •		• •	~	Upper
Schinus molle	California Pepper Tree	VL		VL			M	8, 9, 12-24, H1, H2	25'-40'	25'-40'	ŀ		✓			•	Opper
Syagrus romanzoffianum	Queen Palm	L	M		M			12, 13, 15-17, 19-24, H1, H2	50'	20'-25'	1	1			~		
Tecoma stans	Yellow Bells (Tree Form)	/	1	L	L	1	L	12, 13, 21-24, H1, H2	25'	10'-20'		1	1		1		
Tipuana tipu	Tipu Tree	М	1		М		/	12-16, 18-24, H1, H2	25'-40'	30'-60'	1		✓		1		
Trachycarpus fortunei	Windmill Palm	L		М	М	1	М	4-24	30'	10'	1		✓		✓		
Tristania conferta (Lophostemon conf.)	Brisbane Box	М	/		М		/	15-17, 19-24; H1, H2	30'-45'	25'	1	1	✓		1		
Tristaniopsis laurina	Water Gum	М	/		М		/	15-17, 19-24; H1, H2	45'	50'	1		✓		✓		
Ulmus parvifolia	Chinese Elm				М			3-24	40'-60'	50'-70'	1		1				
	California Laurel	M	M	M	Μ	1	1	4-9, 14-24	20'-25'	20'-25'			1	1	1		
Umbellularia california																	
Umbellularia california Vitex agnus-castus Washingtonia filifera	Monk's Pepper Tree California Fan Palm		L		М	М	M	4-24, H1, H2 8-24, H1, H2	8'-10' 60'	8'-10' 20'	✓ ✓		✓ ✓		✓ ✓		

COUNTY OF RIVERSIDE CALIFORNIA FRIENDLY PLANT LIST	Common	Wucols Region 1				Wucols Region 5	Wucols Region 6	Sunset Zones	Mature Height (Feet)	Mature Width (Feet)	Road Right-of-Way	Medians (©=omit in sight lines)	Erosion Control / Slope	Fuel Mod. *(pending F.D.)	MSHCP Adjacent	Water Quality (Bio) Swale	Swale Location
SHRUBS																	
Acacia craspedocarpa	Leather Leaf Acacia	?	?	?	?	L	L	8, 9, 12-24	8'-10'	5'-10'			 Image: A state 				
Acanthus mollis	Grecian Urn Plant				М	/	М	5-24	4'-5'	4'-5'			1				
Adenostoma fasciculatum	Chamise				/L	/	/	6-9, 14-24	5'-12'	5'-12'	✓ ✓	0	✓ ✓		✓ ✓		
Aloysia triphylla Alyogyne hakeifolia**	Lemon Verbena Red Centered Hibiscus	L (L /		L	L /	L	9, 10, 12-21 13-17, 20-24, H1, H2	6' 5'-8'	6' 5'-8'	✓ ✓	0	v v		✓ ✓		
Alyogyne huegelii	Blue Hibiscus	, L	L		L	/	L	13-17, 20-24, H1, H2	5'-8'	5'-8'	· •	0	· •		· •		
Ambrosia deltoidea**	Bursage	?	?		_	L	L	8-16, 18-24, H1	1'-2'	1'-3'	1	1	1		1		
Ambrosia dumosa**	White Bursage	?	?			_	L	8-16, 18-24, H1	2'-3'	2'-3'	1	0	1		1		
Anisacanthus spp.	Desert Honeysuckle	?	?		_	L	L	8-13, 18-23, H1, H2	4'	4'	1	0	1		✓ ✓		
Arctostaphylos densiflora Arctostaphylos edmundsii	Sonoma Manzanita Little Sur Manzanita	VL VL	L		L	/	/	7-9, 14-21 6-9, 14-24	5'-6' 3'	7' 12'	✓ ✓	0	✓ ✓	< <	✓ ✓		
Artemisia californica	California Sagebrush	VL			_	L	L	7-9, 14-24	1 1/2'-5'	4'-7'	· ·	0	· ·	· ·	• •		
Atriplex hymenelytra	Desert Holly				_	_	VL	3, 7-14, 18, 19	1'-3'	3'	1	0	 Image: A second s			✓	Upper
Baccharis pilularis	Coyote Brush	L	L		L	/	/	5-11, 14-24	8"-24"	6'	1	1	1		1		
Baccharis sarathroides	Desert Broom	VL			L	_	L	7-24	5'	5'	 Image: A state Image: A state<td>0</td><td>1</td><td></td><td>1</td><td></td><td></td>	0	1		1		
Berberis thunbergii	Japanese Barberry	L	L		L		M M	A3, 2b-24 5, 6, 12-17, 19, 21-24, H1, H2	4'-6' 3'-6'	4'-6' 3'-6'	✓ ✓	0	✓ ✓		✓ ✓	~	Upper
Bougainvillea spp. Buddleia marrubiifolia	Bougainvillea Wooly Butterfly Bush	2 L	L	_	L	/	M	5, 6, 12-17, 19, 21-24, H1, H2 10-13, 18-24	3'-6'	5'	✓ ✓	0	✓ ✓		✓ ✓		
Buxus microphylla japonica	Japanese Boxwood			M		M	M	3b-24	4'-6'	4'-6'	· ·	0	· ·		• •		
Buxus sempervirens	Common Boxwood	M		M			M	3b-6, 15-17	15'-20'	15'-20'	1	0	1		1		
Caesalpinia gilliesii	Desert Bird of Paradise	L	L	L	LI	М	М	8-16, 18-24	10'	8'	1	0	1		✓		
Caesalpinia mexicana	Mexican Poinciana	?	/		L		L	12-16, 18-24	10'-12'	6'-8'	1	0	1		1		
Caesalpinia pulcherrima	Dwarf Poinciana	L	L		M	_	M	12-16, 18-23, H1, H2	10'	10'	v	0	✓ ✓		✓ ✓		·
Calliandra californica Calliandra eriophylla	Baja Fairy Duster Fairy Duster	/	/		L /L	_	L	10-24	5' 3'	5'-6' 4'-5'	✓ ✓	0	✓ ✓	 ✓ 	✓ ✓		
Callistemon viminalis 'Little John'	Weeping Bottlebrush	/ L	L		и И		M	6-9, 12-24	3'	3'	· ·	0	∙	•	•		
Calocephalus brownii	Cushion Bush	L	/		L		L	16, 17, 19, 21-24	3'	3'	1	0	1		1		
Calycanthus occidentalis	Spice Bush	L	L		И	/	/	4-9, 14-24	4'-12'	4'-12'	1	0	1		1	1	Upper
Carissa macrocarpa 'Boxwood Beauty'	Boxwood Beauty Natal Plum	L	/		М		М	22-24, H2	2'	2'	1	1	1		✓		
Carissa macrocarpa 'Tuttle'	Tuttle Natal Plum	L	/		М		М	22-24, H2	2'-3'	3'-5'	✓ ✓	0	 I 		✓ ✓		
Carissa macrocarpa 'Variegata' Ceanothus spp.	Variegated Natal Plum California Wild Lilac	L	/ L		M L	/ L	M	22-24, H2 5-9, 14-24	2'-4' 3'-15'	3'-6' 3'-15'	✓ ✓	0	✓ ✓	~	✓ ✓	~	Upper
Cercocarpus betuloides	Mountain Ironwood					/L	1	3, 5, 7-10, 13-24	5'-12'	5'-12'	1	0	· •		✓	•	Орры
Cercocarpus minutiflorus**	San Diego Mountain Mahogany	L			/L	/	/	3, 5, 7-10, 13-24	5'-12'	5'-12'	1	0	1		1		
Chamelaucium uncinatum	Geraldton Wax Flower	L	L		N	/	М	8, 9, 12-24	6'-8'	6'-8'	1	0	1		✓		
Cistus spp.	Rockrose	L	L		_		L	6-9, 14-24	3'-6'	3'-6'	1	0	1				
Cocculus laurifolius	Cocculus Duch Magning Olympic					_	M	8, 9, 12-24	25'	25'	✓ ✓	0	✓ ✓		✓ ✓		·
Convolvulus cneorum Convolvulus mauritanicus (C. sasbatius)	Bush Morning Glory Ground Morning Glory	L	L				L	7-9, 12-24 4-9, 12-24	2'-4' 1'-2'	2'-4' 3'	✓ ✓	○	✓ ✓		✓ ✓		
Cordia boissieri	Texas Olive	?					L	8-24	12	8'-10'	-	0	· •		· •		
Cordia parvifolia	Little Leaf Cordia	?				/	L	8-14, 18-24	12'	8'-10'	-	0	1		1		
Correa spp.	Austrailian Fuchsia	L				/	М	14-24	2'-5'	2'-5'	1	0	1		1		
Cotoneaster adpressus praecox	Creeping Cotoneaster	L	L				М	2-24	6'	6'	1	0	1			1	Upper
Cotoneaster apiculatus	Cranberry Cotoneaster	L	L				M	A3, 2-24	3'	6'	✓ ✓	0	✓ ✓			✓ ✓	Upper
Cotoneaster buxifolius** Cotoneaster congestus (C. micro. gla.)	Cotoneaster Buxifolius Pyrenees cotoneaster	L	L		N I N I		M	2-24 3b-24	3' 3'	6' 3'	✓ ✓	0	✓ ✓			✓ ✓	Upper Upper
Cotoneaster salicifolius	Willowleaf cotoneaster	L	L				M	3b-24	15'-18'	15'-18'	-	0	· •			✓	Upper
Crassula spp.	Crassula	L				_	L	8, 9, 12-24	1'-4'	1'-4'							
Cuphea Ilavea	Bat-Faced Cuphea	М	?		?	/	/	16-24, H1, H2	2'-3'	3'	1	0	1		✓		
Dalea bicolor	Dalea	/	/		L	/	М	10-13	8'	5'-6'	1	0	1		✓		
Dendromecon harfordii	Island Bush Poppy Bush Poppy	VL VL			L L	/	/	7-9, 14-24	8'-20'	8'-20'	✓ ✓	0	✓ ✓		1		
Dendromecon rigida Dodonaea viscosa	Hopbush	VL	L		M	/	M	4-12, 14-24 7-24, H1, H2	4'-8' 10'-15'	4'-6' 10'-15'	-	0	✓ ✓		✓ ✓		
Dodonaea viscosa 'Purpurea'	Purple Hopbush	L	+ +		M		M	7-24, H1, H2	10'-15'	10'-15'		0	· •		✓		
Echium fastuosum	Pride of Madeira	L	L		L		М	14-24	5'-6'	6'-10'	1	0	1				
Elaeagnus pungens	Silverberry	L	L		_	_	L	4-24	10'-15'	10'-15'		0	1		1		
Encelia californica	Brown Eyed Susan	/			L		L	7-16, 18-24	3'	4'	1	0	 		 I 		
Encelia farinosa Eriogonum fasciculatum	Brittlebush California Buckwheat	/			_	_	L	8-16, 18-24, H1	3' 1'-3'	4' 4'	✓ ✓	0	✓ ✓		✓ ✓		
Escallonia 'Compakta'	Compact Escallonia	M			L M	_	M	7-9, 12-24 4-9, 14-24	1'-3' 3'	4' 3'	✓ ✓	0	✓ ✓		✓ ✓		
Escallonia 'fradesii'	Escallonia			M			M	4-9, 14-24	5'-6'	5'-6'	✓	0	· ·		• •		
Euonymus japonicus spp.	Euonymous	L		M			M	4-20, H1	8'-10'	6'	1	0	1		✓		
Euryops pectinatus	Shrub Daisy	L	L			М		8, 9, 12-24, H1, H2	3'-6'	3'-6'	1	0	1		✓		
Fallugia paradoxa	Apache plume	/		VL			L	2-23	4'-6'	5'	1	0	1		✓		
Feijoa sellowiana (Acca sellowiana) Forestiera neomexicana	Pineapple Guava Desert Olive	L	L ?		M L	_	M	<u>6-9, 12-24, H1, H2</u> 1-3, 7-24	10'-25' 12'-18'	10'-25' 12'	✓ ✓	0	✓ ✓		✓ ✓		

COUNTY OF RIVERSIDE CALIFORNIA FRIENDLY PLANT LIST Botanical	Common	Wucols Region 1	Wucols Region 2	Wucols Region 3	Wucols Region 4	Wucols Region 5	Wucols Region 6	Sunset Zones	Mature Height (Feet)	Mature Width (Feet)	Road Right-of-Way	Medians (S=omit in sight lines)	Erosion Control / Slope	Fuel Mod. *(pending F.D.)	MSHCP Adjacent	Water Quality (Bio) Swale	Swale Location
SHRUBS												1					
Galvezia speciosa	Island Bush Snapdragon	L		VL				14-24	3'	5'	✓ ✓	0	✓ ✓		✓ ✓		
Garrya elliptica Grevellia 'Noellii'	Coast Silk Tassel Noel's Grevellia	L	L	L	M	/	/ M	<u>4-9, 14-24</u> 8, 9, 12-24	10'-20' 4'	10'-20' 4'-5'	· ✓ ✓	0	✓ ✓		✓ ✓		
Grewia occidentalis	Lavender Star Flower	M	M	_		/	M	8, 9, 12-24, H1, H2	6'-10'	6'-10'	· ·	0	· ·		· ·		
Hakea laurina	Sea Urchin Tree	L	L	L	L	1	/	9, 12-17, 19-24	10'-25'	9'-30'	1	0	1		<		
Hakea suaveolens	Sweet Scented Hakea	L	L	L	L	/	/	9, 12-17, 19-24	10'-20'	10'-20'		0	1		✓		
Hebe 'Veronica Lake' Heteromeles arbutifolia	Veronica Lake Hebe	M	M VL	M	M	/	/	<u>14-24</u> 5-9, 14-24	3' 6'-10'	3' 6'-10'	✓ ✓	0	✓ ✓	I	✓ ✓		
Heuchera sanguinea	Toyon Coral Bells	M		M		M		5-9, 14-24 A1-A3, 1-11, 14-24	1'-2'	6'-10' 1'-2'	✓ ✓	√	✓ ✓		✓ ✓		
Hibiscus rosa-sinensis	Hibiscus	M	M	M	M	/	н	9, 12-16, 19-24, H1, H2	8'-15'	5'-8'	✓	0	· •		✓		
Ilex cornuta 'Burfordii'	Burford Holly	L		М	М		М	3-24	15'	10'	1	0	1		✓		
Ilex vomitoria	Yaupon	L	М	L	L	М		3-9, 11-24, H1, H2	15'-20'	10'-15'	_	0	1	_	✓		
Juniperus chinensis X pfitzeriana	Pfitzer Juniper	L	L	L			М	A2, A3, 1-24, H1, H2	5'-6'	10'-12'		0	✓ ✓		√		
Juniperus chinensis 'Torulosa' Justicia californica	Hollywood Juniper Chuparosa	L	L /	L	M	M	M	1-24,H1, H2 10-14, 18-24	15' 6'	10' 6'	✓ ✓	0	✓ ✓	_	✓ ✓		
Justicia spicigera	Mexican Honeysuckle	/	?	L	L	/	L	12-24	3'	4'	· ·	0	· ·		· •		
Lantana camara	Bush Lantana	L	L	L	L	1	M	8-10, 12-24, H1, H2	6'	6'	1	0	1				
Lantana montevidensis (gold cultivars)	Trailing Lantana	L	L	L	L	/	М	8-10, 12-24, H1, H2	2'	6'	1	1	1				
Larrea tridentata	Creosote Bush	_			L	L	L	7-14, 18-21	8'	8'	1	0	 Image: A state 	 Image: A start of the start of	✓		
Lavandula angustifolia (L officinalis) Lavandula dentata	English Lavender French Lavender	L	L	L	L		M	2-24	2' 4'	2' 6'	✓ ✓	✓ 0	✓ ✓				
Lavandula X intermedia	Lavandin, Hedge Lavender	L	L	L	L		M	8, 9, 12-24 4-24	3'	2'	▼ ✓	0	▼ ✓				
Lavandula latifolia (L. spika)	Spike Lavender	L	L	L	L		M	4-24	3'	2'	1	0	1				
Lavandula pinnata (L. multifida)	Fernleaf lavender	L	L	L	L		М	16-24	1 1/2'	3'	1	1	1				
Lavandula stoechas	Spanish Lavender	L	L	L	L	М		4-24	3'	3'	1	0	1				
Lavatera assurgentiflora Lavatera bicolor (L. maritima)	Tree Mallow Calironia Tree Mallow	L	M	L	L	/	M ?	<u>14-24</u> 6-9, 12-24	12' 8'	12' 4'	✓ ✓	0	✓ ✓		✓ ✓		
Leonotis leonurus	Lion's Tail		L	L	L		? M	8-24, H1, H2	6'	4 6'	▼ ✓	0	▼ ✓		v √		
Leptospermum laevigatum	Australian Tea Tree	L	L	L	L	/	/	14-24, H1, H2	30'	30'	1	0	1				
Leptospermum scoparium spp.	New Zealand Tea Tree	М	М	М	М	/	/	14-24, H1, H2	4'-12'	4'-8'	1	0	1				
Leucophyllum candidum	Cenizo, Violet Silverleaf	L	L	L	L	L	L	7-24	4'	4'	1	0	1		✓		
Leucophyllum frutescens	Texas Sage	L	L	L	L	L	L	7-24, H1, H2	8' 4'	8'	✓ ✓	0	✓ ✓		✓ ✓		
Leucophyllum laevigatum Leucophyllum langmaniae	Chihuahuan Rain Sage Langmanie's Sage, Cinnamon Sage	L	L	L	L	L	L	7-24	4' 5'	5' 5'	✓ ✓	0	✓ ✓		✓ ✓		
Leucophyllum pruinosum	Sierra Bouquet	L	L	L	L	L	L	7-24	6'	6'	1	0	· •		✓		
Leucophyllum zygophyllum	Blue Rain Sage	L	L	L	L	L	L	7-24	3'	3'	1	0	1		✓		
Ligustrum japonicum 'Texanum'	Texas Privet	Μ	М			М		4-24, H1, H2	12'	8'	1	0	1		✓		
Lobelia laxiflora	Mexican Bush Lobelia	?		۷L			M	7-9, 12-24	3'	6'	✓ ✓	0	✓ ✓		✓ ✓	1	
Lonicera nitida Lycium fremontii**	Box Honeysuckle Wolfberry		M	/ L	M	/ L	/ L	<u>4-9, 14-24, H1, H2</u> 8-16, 18-24, H1	11' 9'	10' 9'	✓ ✓	0	✓ ✓		 ✓ 	✓	Upper
Mahonia aquifolium	Oregon Grape	M	M					2-12, 14-24	6'	5'	1	0	· ·		· •		
Mahonia 'Golden Abundance'	Golden Abundance Mahonia	L	L	L		М		2b-12, 14-24	6'	5'	1	0	1		✓	✓	Upper
Mahonia nevinii	Nevin Mahonia	VL	L	L	L			7-24	6'	6'	1	0	1		✓	✓	Upper
Malacothamnus fasciculatus**	Mesa Bushmallow	VL				/	/	7-24	4'-6'	4'-6'	1	0	✓ ✓		✓ ✓	~	Upper
Melaleuca nesophila Mimulus aurantiacus	Pink Melaleuca Sticky Monkey Flower	L	L	L	L	/	/	13, 16-24, H1 7-9, 14-24	20' 4 1/2'	20' 4 1/2'	▼ ✓	0	✓	~	 ✓ 		
Myrica californica	Pacific Wax Myrtle	L	L	L	M		1	4-9, 14-24	30'	30'	1	0	· •		✓	1	Upper
Myrsine africana	African Boxwood	L	L	L	М	/	/	8, 9, 14-24	8'	6'	1	0	1		✓		
Myrtus communis	Common Myrtle	L	L	L		М		8-24, H1, H2	6'	5'	1	0	1		✓		
Myrtus communis 'Boetica'	Twisted Myrtle	L	L	L		М		8-24, H1, H2	5'-15'	4'-20'	1	0	 		✓ ✓		
Myrtus communis 'Compacta' Nandina domestica species	Compact Myrtle Heavenly Bamboo	L	L	L		M		8-24, H1, H2 4-24, H1, H2	4' 8'	4' 4'	✓ ✓	0	✓ ✓		 ✓ 		
Nerium oleander	Oleander	L	L	L	L		M	8-16, 18-24, H1, H2	20'	12'		ľ	1				
Nerium oleander 'Mrs. Roeding'	Mrs. Roeding Oleander	L	L	L	L	М	М	8-16, 18-24, H1, H2	6'	4'			1				
Nerium oleander 'Petite Pink'	Petite Pink Oleander	L	L	L	L	М		8-16, 18-24, H1, H2	6'	6'	1	0	1				
Philadelphus mexicanus	Evergreen Mock Orange	L	M	M				8, 9, 14-24	6'	6'	 ✓ ✓ 	0	✓ ✓		<		
Phlomis fruticosa Phlomis italica	Jerusalem Sage Phlomis italica		M	L	L	M ?	M ?	<u>3b-24</u> 5-24	4' 4'	4' 6'	✓ ✓	0	✓ ✓		✓ ✓		
Phlomis tuberosa	Phlomis	M	?	L	L	?	?	A1-A3, 1-24	3'-6'	3'-6'	v √	0	↓		• ✓		
Photinia serratifolia (P. serrulata)	Chinese Photinia	M	M	/		M		4-16, 18-22	30'	30'	1	0	1		✓		
Photinia x fraseri	Fraser's Photinia	М	М			М		3b, 4-24	15'	15'	1	0	1		✓		
Pittosporum tobira and hybrids	Tobira / Japanese Mock Orange	L	М		M			8-24, H1, H2	15'	15'	1	0	 		√		
Plecostachys serpyllifolia (Helichrysum)	Straw Flower	L	L	L	L	M		8, 9, 14-24	1 1/2'	3'	✓	✓	✓ ✓		✓		
Plumbago auriculata (campense) Polygala dalmasiana	Cape Plumbago Sweet Pea Shrub	L			M		M /	8, 9, 12-24, H1, H2 8, 9, 12-24	6' 5'	10' 5'			✓ ✓		~		
Potentilla gracilis (P. fruticosa)	Cinquefoil	M	M	/	/		· ·	A1-A3, 1-11, 14-21	2'-4'	2'-4'	1	0	· ·		· ·	~	Lower
Prunus caroliniana 'Bright 'n Tight'	Dwarf Caroliana Laurel Cherry	L	L	М	М			5-24	10'	8'	1	0	1		✓		

(C L

COUNTY OF RIVERSIDE CALIFORNIA FRIENDLY PLAN LIST		Mucols Region 1	Wucols Region 2	Wucols Region 3	Wucols Region 4	Wucols Region 5	Wucols Region 6		Wature Height (Feet)	Vature Width (Feet)	Road Right-of-Way	Medians (©=omit in sight lines)	Erosion Control / Slope	Fuel Mod. *(pending F.D.)	MSHCP Adjacent Water Quality (Bio) Swale	Swale Location
Botanical	Common	2	2	Ż	2	Ż	2	Sunset Zones	8	S	œ	2	Щ	ι, Έ	5 3	. v
SHRUB\$																
Prunus caroliniana 'Compacta'	Dwarf Caroliana Laurel Cherry	L			М			5-24	10'	8'	✓	-	✓	•		
Prunus ilicifolia	Hollyleaf Cherry	L	-	VL	-	/	/	5-9, 12-24	10'-25'	10'-25'	1	-			·	
Prunus Iyonii**	Catalina Cherry	L	L		L	/	/	5-9, 12-24	15'-20'	15'-20'	✓	-	✓		·	_
Punica granatum 'Nana'	Dwarf Pomegranate	L	-		М			5-24, H1, H2	3'	6'	 ✓ 	-	 	~	·	_
Pyracantha species Rhamnus californica	Firethorn Coffeeberry	L	L	L	M	M	M	4-24	4'-10' 15'	4'-10' 8'	✓ ✓	-	✓ ✓		· •	Line
Rhamnus crocea	Redberry	L		VL		/	M	3a-10, 14-24, H1, H2 7, 14-24	3'	6'	v √		• •		· •	
Rhamnus croceus spp. ilicifolia	Hollyleaf Redberry	L		VL		/	M	7-10, 14-23	15'	15'	· ·		• •		· •	
Rhaphiolepis indica species	Indian Hawthorn	L	L	M		M	M	8-10, 12-24, H1, H2	5'	6'	イ	-	· イ	v		
Rhus integrifolia	Lemonade Berry	L		VL		/	/	8, 9, 14-17, 19-24	10'	10'			· •		· •	Upp
Rhus laurina	Laurel Sumac	VL	-	VL	-	1	1	8, 9, 14-17, 19-25	15'	15'	1	-	I		·	- Opp
Rhus ovata	Sugar Bush	L		VL		М	М	9-12, 14-24	10'	10'	1		~		·	
Rhus trilobata	Squawbush	L	L	L	L	L	1	1-12, 14-21	5'	5'	1		~			
Ribes aureum	Golden Currant	L	L	L	L	L	1	A2, A3, 1-12, 14-23	6'	6'	1	0		v	· •	Upp
Ribes indecorum	White Flowering Currant	L	L	L	L	L	1	7-9, 11, 14-24	9'	6'	✓		✓		•	
Ribes malvaceum	Chaparral Currant	VL		VL	L	1	1	6-9, 14-24	5'	5'	1		~		-	
Ribes sanguineum	Red Flowering Currant	L	L	L	Μ	/	1	A3, 4-9, 14-24	12'	12'	1	0	✓		1	Upp
Ribes speciousum	Fuchsia Flowering Gooseberry	L	L		М	/	/	7-9, 14-24	8'	10'	1	-	✓		·	
Romneya coulteri	Matilija Poppy	VL	VL			/	1	4-12, 14-24, H1	6'-8'	6'-8'	✓	-	✓		·	
Rosa banksiae	Lady Bank's Rose	L	-	М	М	М	М	4-24, H1, H2	12'-20'	12'-20'			~		·	
Rosa californica**	California Wild Rose	L	L	L	L	1	/	4-24	3'-9'	3'-9'	✓	•	✓		 ✓ 	Uppe
Rosmarinus officinalis 'Tuscan Blue'	Tuscan Blue Rosemary	L	L		L		М	4-24, H1, H2	7'	3'	✓	-	✓	•	·	
Rubus ursinus**	Blackberry	L	L	-	-	?		4-6, 14-17	10'-20'	10'-20'	✓	0			 ✓ 	Lowe
Ruellia brittoniana	Mexican Barrio Ruellia	M		-	?	М		8, 9, 12-24, H1, H2	3'	1 1/2'	✓	-	✓			_
Ruellia brittoniana 'Katie'	Dwarf Mexican Barrio Ruellia	M			?	М		8, 9, 12-24, H1, H2	1'		√		 ✓ 		· _	
Ruellia california	Sonoran Desert Ruellia	?		-		/	L	12, 13	4 1/2'	4 1/2'	✓	-	✓		·	
Russelia equisetiformis*	Coral Fountain	/	L	-		М		14, 19-24, H1, H2	5'	5'	√	-	 ✓ 		·	_
Russelia polyedra*	Wild Coral Fountain	/		M			М	14, 19-24, H1, H2	5'	5'	✓ ✓	-	✓ ✓		•	
Salvia apiana Salvia argentea	White Sage Silver Sage	VL L	L	VL L	VL L	L ?		7-9, 11, 13-24 1-24	5' 10"	5' 2'	✓ ✓	-			-	
Salvia clevelandii & hybrids	Salvia		L	VL	_	۲ ۲		8, 9, 12-24	5'	2 8'	v √	-				
Salvia greggii & hybrids	Autumn Sage	L	L	-	L		M	8-24	- 5 - 4'	4'	• ✓					
Salvia leucantha	Mexican Bush Sage	L	L	L	L	/	M	12-24, H1, H2	4'	6'	• •	-			-	
Salvia leucophylla	Purple Sage	L	/	L	L	/	M	8, 9, 14-17, 19-24	5'	5'		-			-	
Salvia mellifera	Black Sage	L	Ĺ	L	L	1	M	7-9, 14-24	6'	5'	1		I			
Sambucus mexicana	Mexican Elderberry	L	L	-	L	M	M	2-24, H1	30'	20'	1		~		· •	Uppe
Santolina chamaecyparissus (S. incana)	Lavender Cotton	L	L	L	L	L	L	2-24, H1, H2	2'	3'	1		✓			
Santolina rosmarinifolia (S. virens)	NCN	L	L		L	L		3-9, 14-24	2'	3'	~		✓		·	
Sarcococca ruscifolia	Fragrant Sweet Box	L	М	М		1	1	4-9, 14-24	6'	7'	1		1		1	
Senna artemesioides (Cassia art.)	Feathery Cassia/Senna	L	L		L	L	L	8, 9, 12-16, 18-23	5'	5'						
Senna nemophila	Desert Cassia	/	?	L	L	L	L	12-24	5'	5'	1	0	✓		·	
Senna phyllodenia (Cassia phyllodenia)	Silver Senna/Cassia	?	?	L	L	L	L	12-24	6'	6'	1	0	✓		·	
Senna spectabilis (Cassia excelsa)**	Senna/Cassia spectabilis	?	?	L	L	?	?	12-24	6'	6'	 Image: A second s	0	 Image: A second s	*	-	
Senna sturtii (Cassia sturtii)	Sturt's Cassia/Senna	/	/	L	L	L	L	12-24	6'	4'	<	0	 Image: A second s	*		
Shepherdia argentea	Silver Buffalo Berry	L			VL			1-3, 7, 10	12'	12'	✓	-	✓		·	
Simmondsia chinensis	Jojoba				VL			7-24	6'	6'	✓	-		/ /	·	
Solanum rantonnetii (Lycianthus rant.)	Blue Potato Bush		М		-	/	М	12, 13, 15-24, H1, H2	8'-12'	6'-10'	✓	-	✓			
Solanum xantii	Purple Nightshade	L	L	-	L	/	L	7-9, 11, 14-24	3'	3'	1	-	✓			
Sollya heterophylla	Austrailian Bluebell Creeper	L	L	L	L	/	/	8, 9, 14-24, H1, H2	3'	5'	✓	-	✓		·	_
Sophora arizonica	Arizona Sophora	L	L	-	L		М	10-13	10'	10'	✓	-	✓		·	
Sophora secundiflora	Texas Mountain Laurel	L	L	L	L		М	8-16, 18-24	25'	15'	✓		 ✓ 		·	_
Sphaeralacea ambigua	Desert Mallow	L	L		L	/		3, 7-24	4'	3'	√					
Spiraea douglasii	Western Spiraea	M			М			1-9, 14-21	6'	6'	✓ ✓		✓ ✓		· ·	
Spiraea japonica Spiraea x japonica 'bumalda'	Spirea Bumalda Spirea		M		M	M		A2, A3, 2-10, 14-21	6' 3'	6'	v √	-	▼ ✓		· •	- FF
Symphoricarpos albus	Snow Berry	L		L	L	™ ?		A2, A3, 2-10, 14-21 A3, 1-11, 14-21	2'-6'	3' 2'-6'	✓ ✓		✓ ✓		· ·	Upp
Fagetes lemmonii	Mountain Marigold	L	L		L		M	8-10, 12-24, H1	2-6	2-6	v √		▼ ✓			
Tecoma alata*	Orange Bells	M			L	/	M	12, 13, 21-24	8'	5'	v √		• ✓			
Fecoma garrocha*	Argentine Tecoma		M		L	1	M	12, 13, 21-24	5'	5'	• •	-	• •			
Fecoma stans var. angustata*	Hardy Yellow Trumpet Flower				L	1	M	12, 13, 21-24, H1, H2	10'	8'			✓			
recomaria capensis	Cape Honeysuckle	M			M	1	M	12, 13, 20-24, H1, H2	8'	5'		-	· •			
Feucrium chamaedrys	Germander	L	L		L		M	2-24	1'	2'	1		1		·	
Feucrium fruticans	Bush Germander	L	L	L	L	1	M	4-24	8'	8'	1		1		·	
Feucrium marum	Cat Thyme	L	L	-	L	?		3-9, 14-24	1 1/2'	1 1/2'	✓		~		·	
/auquelinia californica	Arizona Rosewood	L	?		1		М	10-13	20'	15'	1		~		·	
	Chihuahuan Rosewood	L	?		/		М	10-13	20'	15'	1		~	v	•	
Vauquelinia corymbosa angustifolia*		L			1						✓		~	¥		

COUNTY OF RIVERSIDE CALIFORNIA FRIENDLY PLAI LIST Botanical	NT Common	Wucols Region 1	Wucols Region 2	Wucols Region 3	Wucols Region 4	Wucols Region 5	Wucols Region 6	Sunset Zones	Mature Height (Feet)	Mature Width (Feet)	Road Right-of-Way	Medians (©=omit in sight lines)	Erosion Control / Slope	Fuel Mod. *(pending F.D.)	MSHCP Adjacent	Water Quality (Bio) Swale	Swale Location
SHRUBS																	
Viburnum japonicum	Viburnum	М	М	М	М	М	/	5-10, 12, 14-24	15'	12'	1	1	1		1		
Viburnum suspensum	Sandankwa Viburnum	М	М	М		М	-	12-24	10'	10'	1	1	1		1		
Viguiera deltoidea*	Goldeneye	/	/	VL		L	-	10-24	3'	3'	1	1	1		1		
Westringia fruticosa (rosmariniformis) Westringia longifolia	Coast Rosemary Coast Rosemary	L	L ?	L	L ?	/	M	8, 9, 14-24 8, 9, 14-24	3' 3'	3' 2'	✓ ✓	✓ ✓	✓ ✓		✓ ✓		
Xylosma congestum	Shiny Xylosma	L	۲ ۲		? M	M	-	8, 9, 14-24	10'	2 10'	V V	▼ ✓	v v		 ✓ 		
ACCENTS / GRASSES			-					021	10	10							
									1								
Agapanthus species Agave americana	Lily of the Nile Century Plant	L	M	M	M L	/	M	6-9, 12-24, H-1, H-2 10, 12-24, H1, H2	1 1/2'-5' 10'	1'-2' 10'	 Image: A start of the start of	0	1	~	✓ ✓		
Agave attenuata	Nova Agave		L	L	L	/	L	10, 12-24, H1, H2 13, 20-24, H1, H2	5'	5'	1	0	✓	 ✓ 	 ✓ 		
Agave bovicornuta**	Cowshorn Agave	L	L	L	L	/	L	10, 12-24, H1, H2	3'	3'	· ✓	0	· ·	• •	• •		
Agave bracteosa	Spider Squid Agave	L	L	L	L	1	L	7-9, 12-24		2'-2 1/2		✓	1	1	1		
Agave deserti**	Desert Agave	L	L	L	L	/	L	10, 12-24, H1, H2	18"-20"	18"-20'	 Image: A set of the set of the	1	1	1	1		
Agave desmettiana	Desmettiana Agave	L	L	L	L	/	L	13, 20-24	2'	2'	1	1	~	1	1		
Agave geminiflora	Twin Flowered Agave Durango Delight	L	L	L	L	/	L	13, 24-24, H1	3'	3'	✓ ✓	⊘	✓ ✓	✓ ✓	✓ ✓		<u> </u>
Agave schidigera** Agave victoriae-reginae	Queen Victoria Agave	L	L	L	L	/		10, 12-24, H1, H2 10, 12, 13, 15-17, 21-24	1' 8"	1' 8"	V V	✓ ✓	V V	✓ ✓	✓ ✓		
Agave vilmoriana	Octopus Agave	L	L	L	L	1	L	12-24	3'-4'	3'-4'	· ·	0	1	· ·	· ·		
Agave weberi	Weber Agave	L	L	L	L		L	8, 9, 12-24	6'	6'	1	0	1	1	1		
Aleopecurus pratensis**	Yellow Foxtail Grass	?	?	М	?	?	?	7-9, 14-24	2'	2'	1	1	1		1	1	Lower
Aloe species	Aloe	L	L	L	L	/	L	8, 9, 12-24	1'-3'	1'-3'	1	1	1	1	1		
Anigozanthos cultivars (A. flavidus)	Kangaroo Paw	L	L	L	L	/	Μ	15-24	5'	2'-3'	1	0			 Image: A state 		
Asclepias subulata Bouteloua gracilis	Desert Milkweed Blue Grama Grass	L	L	L ?	L ?	M	L ?	1-24 1-3, 7-11, 14, 18-21	3'-6' 1 1/2'-2'	2'-3' 1'	✓ ✓	○	✓ ✓	~	✓ ✓		
Calamagrostis acutiflora	Feather Reed Grass		L ?	? M	? M	?		2b-24	2'-3'	2'-3'	✓ ✓	v 0	v √		✓ ✓	1	Lower
Carex buchanani	Leatherleaf Sedge	M	_	M	M	/	M	2b-9, 14-24	3'	2.5'	· •	0	Ľ		•	•	Lower
Carex conica	Snowline Sedge	M		М	М	1	М	3-9, 14-24	2'	2'	1	1				1	Lower
Carex elata 'aurea'	Bowles Golden Sedge	М		М		/	М	2-9, 14-24	2 1/2'	1 1/2'	1	0				1	Bottom
Carex flagallifera	New Zealand Sedge		М	М		/	М	4-9, 14-24	3'	2-2 1/2		0				1	Lower
Carex marrowii	Japanese Sedge	M	M	M	M	/	M	3-9, 14-24	1'	1 1/2' 12"	✓ ✓	✓ ✓				✓ ✓	Lower
Carex pansa Carex tumicola	California Meadow Sedge Berkeley Sedge	M		M		/	M	7-9, 11-24 2b-9, 11-24	6"-8" 6"-8"	12" 12"	✓ ✓	✓ ✓				✓ ✓	Lower Lower
Carnegiea gigantea	Saguaro	/	/	VL	L	/	L	12, 13, 18-21	50'	18"-8'	· •	0		1	1	•	Lower
Cephalocerus spp.	Old Man Cactus	VL	1	VL	L	L	L	13, 21-24, H1	15'-45'	12"-5'	1	0	1	1	1		
Cereus peruvianus	Peruvian Apple Cactus	/	?	L	L	/	L	13, 16, 17, 21-24, H2	10'	15'	1	0	1	1	1		
Chamaerops humilis	Mediterranean Fan Palm	L	L	М		М		4-24, H1, H2	20'	20'	1	0	1		1		
Chondropetalum tectorum	Cape Rush	н	?	M	?	?		8, 9, 14-24	3'-5'	4'-6'	1	0			✓ ✓	✓	Bottom
Clivia miniata Cordyline australis	Kaffir Lily Giant Dracaena	L	M	L	M M	/ M	M	12-17, 19-24, H1, H2 5, 8-11, 14-24, H1, H2	2' 20'-30'	2' 6'-12'	1	✓ 0	v		✓		
Cycas revoluta	Sago Palm	M		M		M		8-24, H1, H2	2'-10'	2'-6'	▼ ✓	0	Ľ		1		
Dasylirion acrotriche**	Green Desert Spoon	VL				L	-	10-24	5'	5'	1	0	1	1	1		
Dasylirion longissimum	Toothless Desert Spoon	VL		L	L	L	L	12-24	5'-10'	5'	1	0	1	1	1		
Dasylirion wheeleri	Desert Spoon	VL		L	L	L	L	10-24	3'-5'	4'-5'	1	0	1	1	1		
Deschampsia caespitosa	Tufted Hair Grass	L	L	L	L	/	/	2-24	1'-2'	2'	1	 Image: A state Image: A state<td></td><td></td><td> Image: A state </td><td> Image: A state </td><td>Lower</td>			 Image: A state 	 Image: A state 	Lower
Deschampsia flexuosa* Distichlis spicata 'Stricata'**	Crinkled Hair Grass Salt Grass	L	L	L	L	/ M	/ M	2-24 7-9, 14-24	2' 2'	1' 1'	✓ ✓	✓ ✓			✓ ✓	√ √	Lower Bottom
Dietes bicolor	Fortnight Lily	L	L		M	/	M	8, 9, 12-24, H1, H2	2'-3'	1'-2'	▼ ✓	0			× ✓	v	DOLLOITI
Dietes iridioides (vegeta)	African iris	L	L		M	1	M	8, 9, 12-24, H1, H2	3'	3'	· •	0			· •		
Dudleya lanceolata**	LiveForever	L	L	VL		L	-	7-24	1'-2'	1'-2'	1	1	1		1		
Echeveria elegans	Hens and Chickens	L	L	L	L	/	М	8, 9, 12-24	4"	8"	1	0			1		
Echinocactus grusonii	Golden Barrel Cactus		VL		L	/		12-24	4'	2 1/2'	1	0	1	1	1		
Eleocharis macrostachya** Elvmus magellanicus	Spike Rush Magellan Wheatgrass		M		M	M		7-9, 14-24	1'-2'	1'-2'	✓ ✓	✓ ✓			✓ ✓	√ √	Bottom
Ephedra viridis*	Morman Tea	L	L	L	L	M	M	3-6, 14-17, 21-24 1-3, 7-24	1 1/2' 3'-4'	1 1/2' 3'-4'	✓ ✓	 ✓ Ø 	1	~	✓ ✓	v	Lower
Esposta lantana	Peruvian Old Man Cactus	?	2	L	L	L	-	12-24	8'	2'	· ·	0	· ·	· ·	· ·		
Euphorbia characias wulfenii	no common name	Ĺ	L	L	L	?		4-24	4'	4'	1	0	1	1	1		
Euphorbia ingens*, **	Candelabra Tree	L	L	L	L	?	?	4-25	8'	4'	1	0	1	1	1		
Euphorbia milii	Crown of Thorns	1	L	L	L	/	L	13, 21-24, H1, H2	1'-4'	1 1/2'	1	0	1	 Image: A second s	 Image: A second s		
Euphorbia rigida	Euphorbia Ropeil Tree (milk bush)	/	L	VL VL		/	-	4-24	2'	3'-5'	1	1	✓ ✓	✓ ✓	✓ ✓		
Euphorbia tirucallii Ferocactus spp.	Pencil Tree (milk bush) Barrel Cactus	/	/ VL		/ L	/ L	L	13, 23, 24, H1, H2 8-24	20' 8'-9'	6' 3'	 ✓ 	0	✓ ✓	✓ ✓	✓ ✓		
Festuca (ovina) glauca	Blue Fescue	L	L				M		1'	- 3 10"	▼ ✓	√	✓				
Festuca idahoensis	Fescue	VL		?	?	?		1-10, 14-24	14"	10"	· •	· •				1	Lower
																	+

C C L

COUNTY OF RIVERSIDE CALIFORNIA FRIENDLY PLAN LIST Botanical	T	Wucols Region 1	Wucols Region 2	Wucols Region 3		Wucols Region 5		Sunset Zones	Mature Height (Feet)	Mature Width (Feet)	Road Right-of-Way	Medians (©=omit in sight lines)	Erosion Control / Slope	Fuel Mod. *(pending F.D.)	MSHCP Adjacent	Water Quality (Bio) Swale	Swale Location
ACCENTS / GRASSES																	
Helictotrichon sempervirens	Blue Oat Grass	L	L	М	M	М	M	1-12, 14-24	2'-3'	2'-3'	1	1	1		1	✓	Lower
Hemerocallis hybrids	Day Lily						М	1-24, H1, H2	6'	2'-3'	1	1			1		
Hesperaloe funifera	Coahuilan Hesperaloe	1	/	VL	. L	L	L	12, 13	6'	6'-8'	1	0	1	1	1		
Hesperaloe parviflora	Red / Yellow Yucca	1	/	VL	. L	L	L	2b, 3, 7-16, 18-24	3'-4'	3'-4'	1	0	1	1	1		
mperata cylindrica rubra	Japanese Blood Grass	н	-	Μ			М	2b-24	1'-2'	1'	1	1				✓	Lower
ris douglasiana	Douglas Iris	L	L					4-9, 14-24	1'-2'	1'	✓	1					Bottom
Juncus acutus**	Spiny Rush	H			M			4-9, 14-24	1'	1'	1	1					Bottom
Juncus patens	California Gray Rush	H			M			4-9, 14-24	2'	2'	✓	1	4			✓	Bottom
Kalanchoe thyrsiflora	Paddle Plant	L	L	_	_	-	M	13, 17, 21-24	1'-3'	1'-3'		✓ ✓		1	✓ ✓		
Kniphofia triangularis (K. galpinii)	Coral Poker Red Hot Poker	M	_	-	_	-	M	2-9, 14-24 2-9, 14-24	2'	2'	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓		
Kniphofia uvaria	Giant Wild Rye				I M			7-12, 14-24	2' 9'	2' 6'	✓ ✓	0	•			~	Upper
_eymus triticoides**	Creeping Wild Rye		VL					7-12, 14-24	3'	3'	▼ ✓	0	-			▼ ✓	Lower
Lilium paradalinum	Leopard Lily				M		M	4-7, 14-17	4'-8'	4'	▼ ✓	0				• •	Lower
Liriope gigantea**	Giant Lilyturf				M		M	2B-10, 14-24, H1, H2	3'	2'	· ·	0	-		·	•	Lower
Liriope muscari	Big Blue Lilyturf	M			M		M	2B-10, 14-24, H1, H2 2B-10, 14-24, H1, H2	1 1/2'	1'	· •	1			1		
Milium effusum 'Aureum'	Bowles Golden Grass	M						3b-9, 14-17	2'	2'	1	1	1			~	Bottom
Viscanthus sinensis	Japanese Silver Grass	Н		M		_	M	2-24	2'-6'	2'-6'	1	0	1			~	Lower
Miscanthus transmorrisonensis	Evergreen Miscanthus	Н	н		M			2-24	2'-3'	3'-4'	1	0	1			~	Lower
Muhlenbergia capillaris	Pink Muhly (Hairy awn muhly)	L	?				M	4-24	3'	6'	1	0	1	1		1	Upper
Muhlenbergia dumosa	Bamboo Muhly	L	?	M	M	Μ	Μ	8-24	3'-6'	3'-6'	1	0	1			✓	Upper
Muhlenbergia emersleyi	Bull Grass	М	?	?	?	?	М	2-24	1 1/2'	3'-4'	1	1	1	1	1	✓	Upper
Muhlenbergia rigens	Deer Grass	L	М	L	М	Μ	Μ	4-24	4'	4'	1	0	1	1	√	~	Upper
Nolina bigelovii	Bigelow Nolina				VL			7-16, 18-24	3'	3'-4'	1	0	<	1	√		
Nolina longifolia	Mexican Grass Tree	VL	VL	. VL	_ VL	. L	L	12-24	6'-10'	9'	1	0	1	1	√		
Nolina matapensis	Tree Bear Grass		VL				L	10-13	10'-25'	10'	1	0	1	1	1		
Nolina microcarpa	Bear Grass				VL		L	3, 10-13	3'	6'	1	0	1	1	1		
Nolina recurvata	Pony Tail Palm				VL		_	13, 16-24, H1, H2	12'-15'	9'-12'	1	0	1	1	1		
Opuntia acicularis**	Bristly Prickly Pear		VL				_	2, 3, 7-24	1'	4'	1	1	1	1	1		
Opuntia basilaris	Beaver Tail Cactus		VL				L	2, 3, 7-24	1'	4'	1	1	1	1	~		
Dpuntia bigelovii	Teddy Bear Cholla		VL			-	_	10-24	3'-6'	3'	✓	0	1	1	~		
Opuntia engelmannii**	Engelmann's Prickly Pear		VL				_	2, 3, 7-24	4'-6'	4'-15'	 ✓ 	0	1	✓ ✓	 Image: A start of the start of		
Opuntia ficus-indica	India Fig				. L		_	8, 9, 12-24, H1, H2	15'	10'	✓ ✓	0	1	✓ ✓	1		
Dpuntia fulgida**	Chainfruit Cholla		VL				-	2, 3, 7-24	12'	6'	✓ ✓	⊙ √	✓ ✓	✓ ✓	✓ ✓		
Dpuntia microdasys	Bunny Ears		VL VL				_	12-24	2'-3' 3'-12'	4'-5' 3'-9'	✓ ✓	v 0	✓ ✓	✓ ✓	✓ ✓		
Dpuntia versicolor** Pachycereus marginatus	Staghorn Cholla Mexican Fence	VL	VL ?			-	-		25'	3'-9'	✓ ✓	0	✓ ✓	✓ ✓	✓ ✓		
Panicum virgatum	Switch Grass	/ M					_	13, 16, 17, 21-24, H2 1-11, 14-23	25 4'-7'	2'-4'	▼ ✓	0	v √	1 v		1	Bottom
Phoenix roebelenii	Pigmy Date Palm	L	_	M		? 	M	13, 16, 17, 22-24, H2	4-7 6'-10'	2-4 6'-8'	▼ ✓	0	v √		~	•	Bottom
Phormium hybrids	New Zealand Flax Hybrids	L	L	-			M	7-9, 14-24, H1, H2	1'-5'	1'-3'	· ·	√ √	· ·		· ·		
Phormium tenax	New Zealand Flax	L					M	7-9, 14-24, H1, H2	9'	5'	· ·	0	· ·		~		
Portulacaria afra	Elephants Food	L	L	-	_	-	L	8, 9, 12-24, H1, H2	12'	12'	· ·	0	· ·		· ·		
Romneya coulteri	Matilija Poppy				. L		_	4-12, 14-24, H1	6'-8'	15'	1	0	1		1		
Scirpus cernuus	Fiber Optics Plant						H	7-24	2'	2'	1	1				1	Bottom
Scirpus maritimus**	Bulrush						M	7-24	2'	2'	1	1		1			Bottom
Sedum brevifolium	no common name	L	L				L	8, 9, 14-24	2"-3"	1'	1	1	1	1	1		
Sedum confusum	no common name	L	L	L	L	L	L	8, 9, 14-24	6"-18"	6"-18"	1	1	1	1	1		
Sedum X rubrotinctum	Pork and Beans	L	L	L	L	L	L	8, 9, 12, 14-24, H1, H2	6"-8"	12"	1	1	1	1	1		
Sedum spurium	Dragons Blood	L	L			L	L	1-10, 14-24	4"-5"	2'	1	1	1	1	1		
Senecio cineraria	Dusty Miller	L	L	L	L	/	М	4-24, H1, H2	2'-3'	2'-3'	1	0	1		1		
Senecio mandraliscae	Blue Chalk Sticks	1	/	L	М	/	М	12, 13, 16, 17, 21-24, H1, H2	1'-1 1/2'	2'	1	1	1		1		
Sisyrinchium bellum	Blue-Eyed Grass	VL	VL	. L	L	Μ	M	4-9, 14-24	4"-2'	6"-2'	1	1			1	✓	Upper
Sisyrinchium californicum	Yellow-eyed Grass						Μ	4-9, 14-24	6"-2'	8"-10"	1	1			1	~	Bottom
Spartina pectinata*	Praire Cord Grass	М	М			Μ	Μ	1-9, 14-24	5'	3'	1	0			1	✓	Bottom
Stenocereus thurberi (Lemaireocereus)	Organpipe Cactus	/	/	VL				12-24	15'-20'	12'	1	0	1	1	✓		
Strelitzia nicolai (protected areas only)	Giant Bird of Paradise	М			M		Μ	22-24, H1, H2	5'-30'	5'-30'	<	0			1		
Strelitzia reginae (protected areas only)	Bird of Paradise				M		М	22-24, H1, H2	5'-6'	5'-6'	1	0			1		
Trichostema lanatum	Woolly Blue Curls		VL				Μ	14-24	3'-5'	4'-8'	1	0	1		 Image: A start of the start of		
Fulbaghia violacea	Society Garlic				M	-	Μ	13-24, H1, H2	1'-2'	1'-2'	1	1			 Image: A state Image: A state<td></td><td></td>		
	Spanish Bayonet	L	L	L	_	-	_	7-24, H1, H2	10'	5'	 ✓ 	0	1	 ✓ 	 Image: A state Image: A state<td></td><td></td>		
Yucca aloifolia		L	L	L	L	L	L	1-3, 7, 9-14, 18-24	3'	5'	1	0	1	1	1		
Yucca baccata	Banana Yucca												1				
Yucca baccata Yucca brevifolia	Joshua Tree	L	L	L	L	-	-	7, 9-16, 18-23	15'-30'	30'	1	0	1	 ✓ 	 ✓ 	_	
Yucca baccata Yucca brevifolia Yucca elata	Joshua Tree Soaptree Yucca	L	L	L	L	L	L	7-24	6'-20'	8'-10'	✓ ✓	0	1	1	✓ ✓		
Yucca baccata Yucca brevifolia Yucca elata Yucca gloriosa	Joshua Tree Soaptree Yucca Spanish Dagger	L L	L L L	L	L	L	L	7-24 7-9, 12-24, H1, H2	6'-20' 10'	8'-10' 8'	✓ ✓		✓ ✓	✓ ✓	 Image: A state of the state of		
Yucca baccata Yucca brevifolia Yucca elata Yucca gloriosa Yucca recurvifolia	Joshua Tree Soaptree Yucca Spanish Dagger Pendulous Yucca	L L L	L L L	L	L L L	L	L	7-24 7-9, 12-24, H1, H2 7-10, 12-24	6'-20' 10' 6'-10'	8'-10' 8' 6'-8'	✓ ✓ ✓			✓ ✓ ✓	✓ ✓		
Yucca baccata Yucca brevifolia Yucca elata Yucca gloriosa	Joshua Tree Soaptree Yucca Spanish Dagger	L L	L L L		L L L L	L L L	L	7-24 7-9, 12-24, H1, H2	6'-20' 10'	8'-10' 8'	✓ ✓ ✓		✓ ✓	✓ ✓	 Image: A state of the state of		

C C L

	Common	Wucols Region 1	Wucols Region 2	Wucols Region 3	Wucols Region 4	Wucols Region 5		Sunset Zones	Mature Height (Feet)	Mature Width (Feet)	Road Right-of-Way	Medians (©=omit in sight lines)	Erosion Control / Slope	Fuel Mod. *(pending F.D.)	MSHCP Adjacent	Water Quality (Bio) Swale	Swale Location
GROUNDCOVER																	
Achillea tomentosa	Yarrow Woolly	L	L	L	L	Μ	M	A1-A-3, 1-24	6"	18"	1	1	✓				
	Yerba Mansa	?	?	?	-	Н	_	7-9, 14-24	6"	1'	1	1			1	✓	Lower
	Red Apple	L	L	L	L	/	H	12, 13, 15-17, 21-24, H1, H2	6"	2' 8"-14"	✓ ✓	✓ ✓	✓ ✓	 Image: A start of the start of	 Image: A start of the start of		
	Emerald Carpet Manzanita Monterey Manzanita	VL VL		L	L	/	/	6-9, 14-24 6-9, 14-24	8"-14" 4'	8"-14" 6'	✓ ✓	0	✓ ✓	✓ ✓	✓ ✓		
	Pacific Mist Manzanita	VL	L	L	-	/	/	7-9, 14-24	2 1/2'	10'	1	0	1	1	1		
	Powis Castle Artemisia	VL	L	L	L	L	_	7-9, 14-24	3'	6'	1	0	✓	1	1		
	Mugwort	VL	L	L	L	L		7-9, 14-24	2'	2'	1	1		1	1	<	Lower
	Sandhill Sage Creeping Salt Bush	VL VL	L VL	L	L VL	L	_	4, 5, 7-9, 14-17, 19-24 8-10, 12-24	2' 1'	3' 6'	✓ ✓	✓ ✓	✓ ✓	1	1		
	Centennial Baccharis	VL		VL	_	. L	_	7-24	3'	4'-5'	 ✓ 	0	▼ ✓	1	1	1	Upper
	Dwarf Coyote Bush	L	L	L	L	/		5-11, 14-24	2'-3'	9'	1	õ	1	1	1	1	Upper
	Dwarf Coyote Bush	L	L	L	L	1	/	5-11, 14-24	8"-24"	6'	1	1	✓		1	✓	Upper
	Desert Marigold	?	?	?		L	L	1-3, 7-23	1 1/2'	1 1/2'	1	1	1	1	1		
	Morning Glory	L	L	М			/	7-9, 14-24	2'	10'	 ✓ 	 ✓ 	 ✓ 		 ✓ 	✓	Lower
	Green Carpet Natal Plum Prostrate Natal Plum	L	/	M			M	22-24, H2	1 1/2' 2'	4' 2'	✓ ✓	✓ ✓	✓ ✓		✓ ✓		
	Carmel Ceanothus	VL	/	VL		/ L	_	22-24, H2 5-9, 14-24	2 1/2'-2 1/	 15'	v v	v v	▼ ✓	1	v v		
	Red Spike Ice Plant	L	L	L	L	1	Ĺ	8, 9, 11-24	3"-5"	15"-18"	1	1	1		-		
Chrysactinia mexicana*	Damianita Daisy	L	L	L	L	L	L	10-13, 18-24	2'	2'	1	1	1		1		
	White Rockrose	L	L	L	L	L		6-9, 14-24	3'-4'	3'-4'	1	0	1				
	Sage Leaf Rockrose	L	L	L	L	L	_	6-9, 14-24	2'	6'	1	1	✓				·
	Ground Morning Glory	L	L	L	M	M	I M	7-9, 14-24	1'-2' 1'-3'	3' 4'-6'	✓ ✓	✓ ✓	✓ ✓		✓ ✓		
	Coprosma Verde Vista Coprosma			M			/	14-24, H1, H2 8, 9, 14-24	1'-3'	4'-6'	✓ ✓	✓ ✓	✓ ✓		✓ ✓		
	Creeping Cotoneaster	L	L	L	M	-	I M	2-24	1 1/2'	6'	· •	· ·	· ~				
	Cranberry Cotoneaster	L	L	L	M		_	A3, 2-24	3'	6'	1	0	1				
	Cotoneaster Buxifolius	L	Г	L	Μ			2-24	3'	6'	1	0	1				
	Bearberry Cotoneaster	L	L	L	Μ			2-24	8"	10'	1	0	1				ļ
	Rock Cotoneaster	L ?	L	L	M	-	_	A3, 2b-11, 14-24	2'-3'	15' 6'	✓ ✓	○	✓ ✓		1		
	Trailing Indigo Bush Shooting Star	M	/ M	L	M	L	L I M	10-13 7-9, 14-24	1 1/2' 2'	2'	✓ ✓	✓ ✓	~		✓ ✓	~	Lower
	Rosea Ice Plant	L	L	L	L	/		14-24, H1	6"	5'	· •	· •	1		ŀ	•	Lower
	Indian Mock Strawberry	M	M	M	-	1	M	1-24, H1, H2	12"	3'	1	1	~	1	1		
· · · · · · · · · · · · · · · · · · ·	Dymondia	L	L	L	L	/	/	15-24	2"-3"	20"	1	1	✓				
	Golden Dyssodia	?	М	?		Μ	M	10-13	6"	1'	1	1	1	1	1		
	Beach Aster	L	/	M	-		/	4-6, 15-17, 22-24	1'	1 1/2'	√	√	✓ ✓	✓	✓		
	Mexican Daisy Wood Strawberry	L	M	M	-			8, 9, 12-24, H1, H2 2b-9, 14-24, H2	10"-20" 4"-8"	3' 3'	✓ ✓	✓ ✓	~		1	~	Lower
	Island Snapdragon	L		VL				14-24	3'	5'	· ·	· ·			· ·	•	Upper
· · · · · · · · · · · · · · · · · · ·	Clumping Gazania						I M	8-24, H1, H2	6"-10"	3'-4'	1	1	1				
Gazania rigens leucolanea	Trailing Gazania	М					M	8-24, H1, H2	6"-10"	3'-4'	1	1	1				
	Lenten Rose	Μ						2b-10, 14-24	1'	2'-3'	1	1			1	<	Lower
	Alum Root Angelita Daisy	M ?	M ?	M ?			M	1-10, 14-24 11-24	2'-3' 1'	2'-3'	✓ ✓	✓ ✓	1		✓ ✓	~	Lower
	Poverty Weed	? VL				/	_	4-9, 14-24	1'	1' 3'	▼ ✓	▼ ✓	•		✓	1	Bottom
	Shore Juniper	L	L	L	M	_	_	A1-A-3, 1-24	1'	6'-8'	1	1			1		Bottom
	Bar Harbor Juniper	L	L	L	Μ		M	A1-A-3, 1-24	1'	8'-10'	1	1			1		
	Blue Carpet Juniper	L	L	L	Μ		M	A1-A3, 1-24	4"-6"	6'-8'	1	1			1		ļ
	Broadmoor	L	L	L	M		M	A2, A3, 1-24	2'-3'	10'	1	 ✓ 			✓ ✓		
	Tamarix Juniper, Tam Yellow Penstemmon	L ?	L ?	L	M	M	_	A2, A3, 1-24 7-9, 12-24	1.5'-2.5' 4'	10' 3'	✓ ✓	0	1		✓ ✓		
	Heart-Leaved Penstemmon	?	?	VL		1	1	7-9, 12-24	5'	5'	· ·	0	· ·		· ·		
	Trailing Ice Plant	L	L	L	L	1	L	12-24	1'	1 1/2'-2	1	1	1				
	Hall's Japanese Honeysuckle	М	М	L	L	Μ		1-24, H1, H2	18"	15'	1	~	1				
	Bicolor Lupine	М	М	М			M	7-24	1 1/2'	1 1/2'	1	1		<u> </u>	1	 Image: A state 	Upper
	Arroyo Lupine Creeping Mahonia	M	M	M	M		IM	7-24 2b-9, 14-24	1 1/2' 1'	1 1/2' 3'	✓ ✓	✓ ✓	1	 Image: A state of the state of	✓ ✓	~	Lower
	Orange Ice Plant	L	L	L	L	/		11-24	6"-12"	6'	✓	 ✓ 	 ✓ 				
	Yellow Ice Plant	L	L	L	-	/		12-24	1'	6'	1	· •	✓				
Melampodium leucanthum	Blackfoot Daisy	L	L	L	L	/	L	2, 3, 10-13	1'	1'	1	1	✓		1		
	Seep Monkey Flower	н	Н		Н		_	7-9, 14-24	1'	1'	1	1			1	<	Lower
	Pacific Myoporum	L	L	L	M		/	16-24	2'	30'	√	√	✓				
	Pink Myoporum	L	L	L	L	/	M	8, 9, 12-24	3"-6" 3"-6"	9' 9'	✓ ✓	✓ ✓					
Muoporum ponyifalium (Drootratum)																	
	Prostrate Myoporum White Evening Primrose	L	L ?	L /	L	L		8, 9, 12-24 1-3, 7-14, 18-21	8"-12"	2'	· ·	▼	1		1		

COUNTY OF RIVERSIDE CALIFORNIA FRIENDLY PLAN LIST Botanical	IT <u>Common</u>	Wucols Region 1	Wucols Region 2					Wucols Region 6	Sunset Zones	Mature Height (Feet)		Mature Width (Feet)	Road Right-of-Way	Medians (©=omit in sight lines)	Erosion Control / Slope	Fuel Mod. *(pending F.D.)	MSHCP Adjacent	Water Quality (Bio) Swale	Swale Location
GROUNDCOVER																			
Osteospermum fruticosum	Trailing African Daisy	L	-	_	_	_	_	М	8, 9, 12-24	6"-12		2'-4'	1	✓	1				
Pelargonium species	Ivy Geranium		M	-			_	М	8, 9, 12-24; A2, A3	1'		5'	1	1					
Pyracantha hybrid 'Ruby Mound'	Firethorn species	L	_					M	8, 9, 12-24	2 1/2		10' 6'	✓ ✓	✓ 0	✓ ✓		✓ ✓		
Pyracantha hybrids 'Apache' Pyracantha hybrids 'Tiny Tim'	Firethorn species Firethorn species	L	_	_	_	_		M	8, 9, 12-24 8, 9, 12-24	4' 3'		6' 3'	✓ ✓	0	✓ ✓		✓ ✓		
Rosmarinus officinalis 'Prostratus'	Prostrate Rosemary	L	_	_				M	4-24, H1, H2	2'		8'	· ·	√	· ·		· ·		
Sarcococca hookerana humilis	Sweet Box	L	_	_			/	/	4-9, 14-24	1 1/2		8'	1	1	1		1		
Satureja douglasii	Yerba Buena	L					?	?	4-9, 14-24	6"		3'	1	1			1	<	Bottom
Stachys byzantina	Lamb's Ear	L	L			1 /	/	М	1-24	1 1/2	1	10'	1	✓	1		1		
Stachys coccinea*	Texas Betony	L	_			_	_	М	7-10, 12-24	1 1/2		1/2'	1	✓	1		1		
Symphoricarpus mollis	Snow Berry	L					?	/	2-10, 14-24	1 1/2		1/2'	1	✓	✓		✓		
Teucrium cossonii	Majorcan Germander	VL	_	_	_	_	_	L	7-9, 14-24	8"		1/2'	1	1	✓		1		
Thymus praecox	Mother-of-thyme		M				_	М	1-24	3'		3'	✓ ✓	○	✓ ✓		✓ ✓		
Thymus vulgaris	Common Thyme		M				M		1-24	1'		2'	✓ ✓	✓ ✓	v		✓ ✓		
Trachelospermum asiaticum Trachelospermum jasminoides	Asiatic Jasmine Star Jasmine	M	M		I M		N N	M	6-24 8-24, H1, H2	18" 2'		5' 10'	✓ ✓	✓ ✓			✓ ✓		
Tradescantia pallida	Purple Heart Plant	IVI	1/1	M				H	12-24, H1, H2	2	a .	3'	v √	v √	1		 ✓ 		
Verbena gooddingii	Goodding Verbena	L	L	_	_	_	_	М	7-24	1 1/2'-		3'-4'	· ·	•	· ·		· ~		
Verbena lilacina	Lilac Verbena	L	_	_	_	-	_	L	12-24	1'	-	3'	1	 ✓ 	1		1		
Verbena peruviana	Peruvian Verbena	L	-	_	_	. /	_	м	8-24	18"		3'	1	✓	1		1		
Verbena rigida	Sandpaper Verbena	M	Μ	I M	I M	1 /	/	М	3-24	1'-2'		3'-4'	1	✓	1		1		
Verbena tenuisecta	Moss Verbena	L	L	L	L	. 7	/	М	7-9, 14-24	1'-2'		3'-4'	✓	<	1		<		
Wedelia trilobata	Wedelia	?	_	_		1	_	?	12-13, 21-24	1 1/2'-		6'	1	✓			✓		
Zauschneria californica	California Fuchsia	L	L	VL	L	N	N	М	2-11, 14-24	6"		3'-4'	✓	✓			✓	✓	Upper
VINES																			
Antigonon leptopus	Queens Wreath	M	/	L	L	. /	/	L	12, 13, 18-24, H1, H2	40'									
Bougainvillea species	Bougainvillea	L	L				/	М	5, 6, 12-17, 19, 21-24, H1, H2	15'-3)'								
Campsis radicans	Common Trumpet Creeper	L	_		I M		N	М	1-21	40'									
Cissus incisa	Texas Grape Ivy	L			I M			М	16-24	30'-5)'								
Cissus trifoliata	Native Grape Ivy	?		?			_	L	10-13	30'	_								
Clematis armandii	Evergreen Clematis	M	_				_	M	4-9, 12-24	15'-2	_								
Clematis texensis* Distictis buccinatoria	Scarlet Clematis Blood Red Trumpet Vine	M	_				_	M	2b-11, 14-24 8, 9, 14-24, H1	6'-10 20'-3	_								
Ficus pumila	Creeping Fig		M	_			_	M	8-24, H1, H2	40'-6	_								
Gelsemium sempervirens	Cariolina Jasmine	L	_	_				M	4-24	20'									
Hardenbergia violacea	Lilac Vine	M	-			_	_	M	8-24	10'									
Hedera canariensis	Algerian Ivy	M	Μ	I M	I M	I N	N	М	5-9, 12-24	20'									
Hedera helix	English Ivy	M	Μ	I M	_	_	N	М	3-24, H1	20'									
Lonicera hildebrandiana	Giant Burmese Honeysuckle		Μ				N		9, 14-17, 19-24, H1, H2	30'									
Lonicera japonica	Japanese Honeysuckle		М	-	_	_	_	М	1-24, H1, H2	30'									
Lonicera sempervirens	Trumpet Honeysuckle		M			1 N			2-24	10'-2									
Macfadyena unguis-cati Mandevilla hybrida	Cat's Claw Vine Mandevilla	L	_	M			_	L	8-24, H1, H2	25'-4 15'-2									
Mandevilla Typhda Mascagnia lilacina	Lavendar Orchid Vine	?	-					M	21-24, H1, H2 12-24	15-2									
Mascagnia macroptera	Yellow Orchid Vine	?	_	_	_			M	12-24	15'									
Merremia aurea	Yellow Morning Glory	?						M	12-24	25'									
Pandorea jasminoides	Bower Vine	M		M			/	/	16-24, H1, H2	20'-3)'								
Parthenocissus quinquefolia	Virginia Creeper	M	Μ	M	I M	1 N	N	М	A2, A3, 1-24	20'									
Parthenocissus tricuspidata	Boston Ivy	M	Μ		I M		N		1-24	20'									
Podranea ricasoliana	Pink Trumpet Vine	/	М		IM			М	9, 12, 13, 19-24, H1, H2	20'									
Polygonum aubertii	Silver Lace Vine	L	L	_			N		A1-A3, 1-24	15'-2)'								
Rosa banksiae	Lady Bank's Rose	L	-		I M		Ń		4-24, H1, H2	20'									
Vigna caracalla Vitis californica	Snail Vine Vitis californica	M		I VL	I M		/ //	M	12-24, H1, H2 4-24	10'-2 30'	<u>)</u>								
Vitis girdiana	Desert Grape	L	-				M		4-24	30'									
Wisteria floribunda	Japanese Wisteria			I M			M		2-24	15'-3)'								
Wisteria sinensis	Chinese Wisteria			I M			N		3-24	15'-3									
TURF																			
	Sonto Ano Pormuda	0.0	0/	4.5.					5 40 40 64 114 110										
Cynodon dactylon 'Santa Ana' Cynodon dactylon 'Tifdwarf'	Santa Ana Bermuda Tifdwarf Bermuda			f Etc f Etc			_		5-10, 12-24, H1, H2 5-10, 12-24, H1, H2	*Requir									
Cynodon dactylon 'Tifgreen'	Tifgreen Bermuda			f Etc					5-10, 12-24, H1, H2 5-10, 12-24, H1, H2	*Requir *Requir									
Cynodon dactylon 'Tifway'	Tifway Bermuda			f Etc					5-10, 12-24, H1, H2	*Requir									
Cynodon dactylon 'U-3'	U-3 Bermuda			fEtc					5-10, 12-24, H1, H2	*Requir									
Cynodon dactylon'GN-1'	GN-1 Bermuda			f Etc					5-10, 12-24, H1, H2	*Requir									
Festuca arundinacea	Tall Fescue			f Etc					A1-A3, 1-10, 14-24	*Hybrid									
Festuca rubra	Red Fescue			f Etc		_			A2, A3, 1-10, 14-24										
Lolium perenne	Perennial Rye Grass	80	% of	f Etc)				A2, A3; 1-6, 15-17										
Lolium perenne Stenotaphrum secundatum Zoysia 'Victoria'	Perennial Rye Grass St. Augustine Victoria Zoysiagrass	60	% of	f Etc f Etc f Etc	þ				A2, A3; 1-6, 15-17 12, 13, 18-24, H1, H2 8, 9, 12-24, H1, H2				_						

PLANTS NOT ALLOWED IN RIVERSIDE COUNTY Lobularia maritima Sweet Alyssum

Oenothera speciosa Pennisetum spp. Mexican Evening Primrose Fountain Grass

PLANT LIST KEY

WUCOLS III (Water Use	Classification of Landscape Species)
WUCOLS Region	Sunset Zones
1	2,3,14,15,16,17
2	8,9
3	22,23,24
4	18,19,20,21
5	11
6	13
WUCOLS III Water L	Isage/ Average Plant Factor Key
H-High (0.8) M-Medium	(0.5) L-Low (.2) VL-Very Low (0.1)

* Water use for this plant material was not listed in WUCOLS III, but assumed in comparison to plants of similar species ** Zones for this plant material was not listed in Sunset, but assumed in comparison to plants of similar species