

**CITY OF RIVERSIDE PLANNING DEPARTMENT**

**WATER EFFICIENT LANDSCAPING AND  
IRRIGATION ORDINANCE  
SUMMARY AND DESIGN MANUAL**



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## **I. WHAT IS THE WATER EFFICIENT LANDSCAPING AND IRRIGATION ORDINANCE?**

The City of Riverside's Water Efficient Landscaping and Irrigation Ordinance was developed in response to state Assembly Bill 325 which requires all cities in California to address landscape water conservation through a locally adopted ordinance. This ordinance may be found in its entirety in Chapter 19.67 of the Municipal Code, and is available separately from the Planning Department. It is fashioned after the state model ordinance and Eastern Municipal Water District's ordinance.

While water efficiency is the goal of this ordinance, it does not require the use of sparse landscaping. All Design Review Board guidelines for landscape quality remain in effect. (See City of Riverside DESIGN REVIEW GUIDELINES manual for more information). Most of the plants people are accustomed to seeing in "normal" landscapes can be used in water efficient landscapes. The main differences lie in the layout of the landscaping and irrigation and the ratios of higher water using plants to lower water using plants. The purpose of this publication is to summarize the pertinent elements of this ordinance and to provide guidance as to how these requirements must be accounted for in the design of landscaping and irrigation.

## **II. WHAT IS IN THIS PUBLICATION?**

Contained in this publication are the following:

- A. A summary of the basic ordinance requirements.
- B. A list of what is required on plans submitted to comply with this ordinance.
- C. Instructions on how to calculate a project's Annual Water Budget.
- D. Instructions on how to calculate a project's Estimated Water Use.
- E. A list of locally appropriate plants along with related "Crop Coefficient" (water conservation rating) information.
- F. A "Water Conservation Concept Statement" form.
- G. A "Certificate of Substantial Completion" form.

### **III. WHAT KINDS OF PROJECTS DOES THIS ORDINANCE PERTAIN TO?**

- A. **PROJECTS SUBJECT TO DESIGN REVIEW BOARD APPROVAL:** This ordinance applies to all new landscaping and irrigation of all projects subject to Design Review Board review and approval, except as noted below. This includes all commercial, office, multiple family residential, industrial and public agency projects.
- B. **MODEL HOMES:** At least one model home of each model home complex in single family residential tracts must comply with this ordinance.
- C. **EXCEPTIONS:** This ordinance does not apply to single family homes, duplexes, cemeteries, registered historical sites, ecological restoration projects that do not require an irrigation system, mined land reclamation projects that do not require an irrigation system and public parks.

### **IV. WHAT QUALIFICATIONS MUST MY DESIGNER POSSES?**

We recommend you carefully consider who to hire to design the landscaping and irrigation of your project. Designing water efficient landscaping and irrigation involves special skills and knowledge. Most projects **MUST** be designed by a professional landscape architect, licensed to practice in the state of California.

- A. **PROJECTS, ONE HALF ACRE OR MORE IN SIZE:** The landscaping and irrigation of all projects with a net area of one half acre or more **MUST** be designed/wet stamped by a landscape architect licensed to practice in the state of California. At the landscape architect's option, irrigation may be designed by a Certified Irrigation Design Designer or a member of the American Society of Irrigation Consultants.
- B. **PROJECTS, LESS THAN ONE HALF ACRE IN SIZE:** The landscaping and irrigation of projects of less than one half acre net size may be designed by any person legally entitled to design such landscaping and irrigation in accordance with state law. This could be a California licensed landscape architect or it could be the contractor who installs your landscaping or the architect who designs your project. If you chose not to use a licensed landscape architect for this size project, make sure your designer is comfortable working with the design and calculation requirements of this ordinance.

### **V. WHO WILL REVIEW MY PROJECT?**

- A. **MODEL HOMES:** The compliance of model home landscaping and irrigation with the water efficient ordinance will be determined by the Planning Department plan check staff at the time building permits are applied for. All requirements noted in this publication, with the exception of the Design Review Board application and fee requirements apply to model homes.
- B. **COMMERCIAL, OFFICE, INDUSTRIAL, INSTITUTIONAL, PUBLIC AND MULTIPLE FAMILY RESIDENTIAL PROJECTS:** The landscaping and irrigation of these projects will be reviewed and evaluated for compliance by the Design Review Board. A complete application for Design Review Board approval must be submitted and processed. This usually takes a minimum of one month.

## **VI. WHAT IS THE OVERALL PROCESS?**

- A. Have your project designed in accordance with the requirements noted in this publication and submit an application for Design Review Board approval in accordance with the requirements noted in this publication. (Note: For model homes, simply include with the plans you submit to building permit plan check, a Water Conservation Concept Statement form along with the landscape and irrigation plans for your models in compliance with the requirements in this publication.)
- B. After the Design Review Board (plan check staff, in the case of model homes) has reviewed the plans and issued its conditions of approval, make any necessary modifications to the plans and resubmit them for staff approval. The staff will issue a set of stamped approved plans which must be used for installation purposes on the job site.
- C. Obtain necessary plumbing permits from the Building Division.
- D. Install the landscaping and irrigation in accordance with the revised plans stamped "approved" by the Design Review/Plan Check staff.
- E. After the completion of installation, have a water audit performed by a Certified Landscape Irrigation Auditor in accordance with the State of California Landscape Water Management Program. (Coordinate this with the person responsible for the design/certification of the landscaping and irrigation.) It is recommended that a water audit be prepared at least every five years.

- F. Make corrections in accordance with the results of this audit.
- G. Have the landscape architect or other qualified person responsible for the design of the project inspect the installation. Make any corrections determined by this person to be necessary to comply with the stamped approved plans.
- H. Have a CERTIFICATE OF SUBSTANTIAL COMPLETION (see Appendix C) completed by the person responsible for the design for the project and submit the completed form to the Planning Department.
- I. After the landscape design professional has submitted the Certificate of Substantial Completion, and you are sure all other Design Review Board requirements have been completed, request a final inspection by the Design Review staff.

## **VII. WHAT DO I NEED TO SUBMIT?**

Submit a complete application for Design Review Board approval that includes the following: (The requirements in this section do not apply to model homes.)

- A. A completed General Application Form available at the Planning Department.
- B. A check made out to the City of Riverside, in the amount noted in the fee summary publication available at the Planning Department.
- C. Five sets of blueprints of the landscape, irrigation and grading plans. Each set of plans should be stapled together along the left edge and folded to maximum 8 ½" x 14" size.
- D. One 8 ½" x 11" transparency of each plan sheet.
- E. One 8 ½" x 11" "PMT" of each transparency.

## **VIII. WHAT INFORMATION NEEDS TO BE INCLUDED ON MY PLANS?**

Landscape and irrigation plans submitted for Design Review Board approval (or Plan Check approval, in the case of model homes) must include all of the following information:

## A. GENERAL REQUIREMENTS

1. A complete application must include landscape, irrigation and grading plans. These plans should be drawn on project base sheets that show the locations of all physical improvements, including buildings, drives, walks, walls, water features, curbing, trash enclosures and the like.
2. The scale of all plans should be consistent and be large enough for all data to be readable. (1" = 20' scale or larger is desired.)
3. Property lines, compass direction and street names should be clearly annotated.

## B. LANDSCAPE PLAN REQUIREMENTS

1. The locations, species and trunk diameters of all existing trees, noting those to be protected in place, those to be relocated and those to be removed.
2. The proposed locations of all new plant materials, arranged into like hydrozones and with each plant type and hydrozone clearly identified. Any plants may be used, but the Estimated Annual Water Use should not exceed the Annual Water Budget. Plants selected should be appropriate for Riverside's climate and the conditions of the site. Preservation of existing plant materials and the use of species native to this area is encouraged. Fire prevention needs should also be considered.
3. A plant list keyed to the symbols shown on the plan and indicating the full botanic and full common name of each plant.
4. The size of each plant to be used. (Minimum 5 gallon for shrubs and 15 gallon for trees.)
5. Street tree species, locations and planting notes as required by the Park and Recreation Department. Contact the Park and Recreation Department at (909) 715-3440 for more information.
6. A completed WATER CONSERVATION CONCEPT STATEMENT, (See Appendix B on Page 68) including all calculations and

documentation necessary to demonstrate that the ESTIMATED WATER USE of a project does not exceed its ANNUAL WATER BUDGET.

7. Specifications for the use of at least two inches of mulch in all planting areas except for turf areas and slopes of 4:1 or greater. Specifications for jute netting or other slope stabilization measures for all slopes of 4:1 or greater.
8. Identification of all water features and noting the means for recirculating water.
9. Plant installation details, including tree staking (minimum double staking with tire strip ties per City specification), soil preparation, weed control measures and other pertinent details.
10. The location and total square feet of each hydrozone, and the total of all landscaped areas, in square feet.
11. A soils analysis (recommended, but not required) indicating soil texture, infiltration rates and levels of soluble salts and Ph .

#### C. IRRIGATION PLAN REQUIREMENTS

1. Specifications and locations of all main and lateral lines, valves, automatic controllers, anti siphon controls, moisture sensors, wiring, sprinklers, emitters, water meters, quick couplers and other irrigation equipment.
2. Irrigation schedules, both for the initial establishment period and the post establishment period. Include run time in minutes per cycle, suggested number of cycles per day and frequency of irrigation for each station. (Schedules should avoid periods typically associated with high temperatures and/or winds)
3. Identification of each hydrozone and indicating each such zone to be controlled by separate valves.
4. Specifications for low head anti-drain check valves.
5. Specifications for automatic controllers.

6. Specifications and design details within each control valve circuit to assure the minimization of over-spray, consistent application rates, full coverage, proper operating pressure, adjustment capability and ease of maintenance. (Street medians of 10 feet width or less may not be irrigated with overhead spray heads.)
7. Specifications for sleeving pipes under paved areas.
8. Specifications for swing joints or other riser protection.
9. Static water pressure at the point of connection.
10. Flow rate in gallons per minute, application rate in inches per hour and design operating pressure in pounds per square inch for each station.
11. Identification of any use of recycled water.

**D. GRADING PLAN REQUIREMENTS**

Landscape and irrigation plans submitted for compliance with the Water Efficient Landscaping and Irrigation ordinance must be accompanied by a preliminary or final grading plan that includes the following:

1. All physical improvements, including buildings, paving, curbing, walls and the like with elevations noted.
2. All cut and fill slopes indicated with appropriate symbols and noting slope ratios.
3. Enough information about the grades of adjacent properties and streets so as to make clear the relationship of the subject property to the adjacent properties.
4. Drainage patterns and improvements.

**IX. HOW DO I CALCULATE THE ANNUAL WATER BUDGET?**

- A. The City of Riverside has adopted the same formula used by Eastern Municipal Water District for calculating the Annual Water Budget of a

project. To calculate the Annual Water Budget (AWB) complete the following steps:

- STEP 1 Calculate the Annual Water Budget (AWB) using the formula detailed below:
- STEP 2 Round off the Water Budget figure calculated to the nearest whole number. (If higher than .5 round up. If lower than .5 round down.)
- STEP 3 Enter the calculations and resulting figure on the WATER CONSERVATION CONCEPT STATEMENT form. (See Appendix B on Page 68).

B. The following is the formula for calculating the Annual Water Budget for each water meter serving a project:

$$AWB = \frac{(56.65)(0.8)(TLA)}{1200}$$

C. The numbers and abbreviations used in this formula have the following meanings:

AWB: The Annual Water Budget in billing units per year. (One Billing unit equals 100 cubic feet, or 748 gallons.)

56.65: The reference evapotranspiration of the Riverside area in inches of water per year.

0.8 The "allowable percentage", or how much of the water represented by the reference evapotranspiration rate allowed to be used by a project. In other words, a project can use no more than 80 percent of the water needed to keep cool season turf grass healthy in the Riverside climate area.

TLA: The total landscaped area, measured in square feet.

1200: The factor used to produce an answer in "billing units". (To convert the answer to gallons, multiply the formula by 748).

- D. SAMPLE CALCULATION for a small individually metered project with a total landscaped area of 8000 square feet:

$$\text{AWB: } \frac{(56.65)(0.8)(\text{TLA})}{1200}$$

SUBTOTAL: 302.13

ROUNDED

ANSWER: 302 billing units per year

In this instance, the total Annual Water Budget for this project is 302 billing units per year. This figure would be compared to the Estimated Annual Water Use, for the project, as calculated in the section entitled "HOW DO I CALCULATE THE ESTIMATED ANNUAL WATER USE?" on Page 7 of this publication. The Water Use should not exceed the Annual Water Budget. If it does, the Design Review Board is empowered to require the landscape and/or irrigation designs to be modified to adjust the Estimated Annual Water Use so as not to exceed the Annual Water Budget.

**X. HOW DO I CALCULATE THE ESTIMATED ANNUAL WATER USE?**

- A. To calculate the Estimated Annual Water Use for each water meter serving a landscaped area, complete the following steps:

STEP 1 Calculate the estimated annual water use (EAWU) for each hydrozone in the landscaped area using the formula detailed below.

STEP 2 Add all of the EAWU's of all of the hydrozones.

STEP 3 Round off this sum to the nearest whole number. (If higher than .5, round up. If lower than .5 round down.)

STEP 4 Enter the calculations for each hydrozone and resulting overall figure on the WATER CONSERVATION CONCEPT STATEMENT form.

- B. The following is the formula for calculating the Estimated Annual Water Use (EAWU) for a hydrozone:

$$\text{EAWU} = \frac{(56.65)(\text{KC})(\text{HA})}{(\text{DE})(\text{AE})(1200)}$$

C. The numbers and abbreviations used in this formula have the following meanings:

EAWU: Estimated Annual Water Use in billing units per year. (One billing unit equals 100 cubic feet or 748 gallons.)

56.65: The reference evapotranspiration of the Riverside area in inches of water per year.

KC: The Crop Coefficient of the plants in a hydrozone. (See the section entitled "HOW DO I USE CROP COEFFICIENT (KC) FACTORS?" on Page 9 and Appendix A on Page 12 of this publication for information regarding the use of KC factors.)

HA: The area of the hydrozone in square feet.

DE: The Distribution Efficiency of the irrigation system expressed as a decimal as follows:

! 0.70 for spray heads

! 0.85 for gear driven, impact or ball driven rotors.

! 0.85 for bubbler heads

! 0.90 for drip irrigation systems

AE: The Application Efficiency of the irrigation system, expressed as a decimal as follows:

! 0.85 for irrigation systems with a centralized control system or a series of controllers that are designed to use evapotranspiration rates, or systems that use moisture sensors.

! 0.65 for irrigations systems which do not use any of the above soil or weather driven controls.

1200: The factor used to produce an answer in "billing units". (To convert the answer to gallons, multiply the formula by 748).

- D. SAMPLE CALCULATION for a small, individually metered landscape project with two hydrozones and a total landscaped area of 8000 square feet:

$$\begin{array}{l} \text{EAWU, hydrozone one: } \frac{(56.65)(0.5)(3000)}{(3000 \text{ sq. ft.})} = 92.56 \\ \frac{(0.9)(0.85)(1200)}{} \end{array}$$

$$\begin{array}{l} \text{EAWU, hydrozone two: } \frac{(56.65)(0.5)(5000)}{(5000 \text{ sq. ft.})} = 198.35 \\ \frac{(0.7)(0.85)(1200)}{} \end{array}$$

$$\text{SUBTOTAL:} \qquad 92.56 + 198.35 \qquad = \qquad 290.91$$

$$\text{ROUNDED ANSWER:} \qquad \qquad \qquad = \qquad 291 \text{ billing units}$$

In this instance, the total EAWU for this project is 291 billing units. This figure would be compared to the Annual Water Budget (AWB) for the project, as calculated per Section 9 of this publication. The Estimated Annual Water Use should not exceed the Annual Water Budget. If it does, the Design Review Board is empowered to require the landscape and/or irrigation designs to be modified to adjust the Water Use so as not to exceed the Water Budget.

## **XI. HOW DO I USE CROP COEFFICIENT (KC) FACTORS?**

- A. ABOUT CROP COEFFICIENTS: A "Crop Coefficient", or KC is the amount of water a plant needs to be maintained in healthy condition in a particular climate. It is one factor used in determining the Estimated Annual Water Use of a project. The City requires that landscape plans be designed so that plants are grouped in hydrozones of like KC's. In other words, plants rated in the "medium" water use range must be grouped together and placed on separate irrigation valves, those in the "low" water using range must be grouped together and placed on separate irrigation valves, etc. To determine the KC of the plants in a hydrozone, complete the following steps:

STEP 1      Refer to Appendix A entitled "WATER NEEDS OF PLANTS IN THE CITY OF RIVERSIDE" on Page 12 and choose plants for each hydrozone that meet the design objectives of

the landscape plan and which are in the same KC category (either 1, 2, 3, 4 or 5).

**STEP 2** Refer to the "KC CONVERSION CHART" in Appendix A on Page 12 to see the KC range associated with that category.

**STEP 3** If the plants are located in a generally shaded area, use the lower end of the range. If they are in a generally sunny area, use the higher end of the range. Similarly, if the soils are more porous use the higher end of the range. If they are less porous, use the lower end of the range. In other words use a figure within the range that would reflect the water holding characteristics of the hydrozone location.

**STEP 4** Use the figure determined by the above in the Annual Water Use calculation for each hydrozone.

**B. PLANTS NOT ON THE LIST:** The KC values provided in the Water Needs Of Plants list are educated estimates of the water needs of a number of plant materials commonly used in the Riverside area. KC's have not been determined for all plants suitable for this climate. Horticultural reference books or horticulturists can provide useful information in estimating the water needs of plants not on this list. As further data becomes available, this list will be expanded. You are not limited to the plants on this list. If you wish to use other plants, simply indicate the basis for the KC factor you have given the plants not on the list. Generally, evergreen trees native to the Mediterranean climates have KC's between 0.40 and 0.60. Evergreen shrubs in this climate zone range from 0.25 to 0.50. Native plants from arid zones average about 0.25.

**C. ORGANIZATION OF THE PLANT LIST:** Under each KC category, plants are alphabetically organized by botanical name into the following groups: (Note: These definitions and specifications are to aid in plant selection for landscaping usage. They are not intended to conform to horticultural or scientific definitions. Plants having multiple uses will be listed accordingly.)

**TREES:** Woody plants with one or several wood trunks, usually exceeding 21 feet in height.

**LARGE SHRUBS:** Woody plants that range from 11 to 20 feet in height, with similar widths.

**MEDIUM SHRUBS:** Woody plants that range from 4 to 10 feet in height, with similar widths.

**SMALL SHRUBS:** Typically woody plants that range from 1 to 3 feet in height, with similar widths.

**VINES:** Typically woody plants with long, flexible limbs, mostly climbing by tendrils that wrap around objects and support the plant by twining or clinging.

**TURF GRASS:** Grasses used as turf and which are designed to withstand substantial traffic.

**BEDDING PLANTS:** Seasonal or annual plants typically used for color and usually under 2 feet in height.

**GROUND COVERS:** Ground hugging plants, usually under one foot in height and with at least twice the spread.

**D. OTHER INFORMATION:** The list also includes the following information:

1. **SUNSET ZONES:** These relate to the Climate Zones in the Sunset Garden Book published by Sunset Magazine. The City of Riverside is in Climate Zone 19.
2. **SOUTHWEST NATIVE:** This refers to plants that are native to the southwestern part of the United States and/or parts of Baja California.
3. **COUNTY NATIVE:** This refers to plants found naturally somewhere in Riverside County. Due to climate variations in the County, not all County natives are suitable for Riverside's climate. Consult a horticulturalist if in doubt.

**APPENDIX A**

**WATER NEEDS OF PLANTS IN THE CITY OF RIVERSIDE**

The plant list on the following page included most of the plant materials commonly used in the City of Riverside. In choosing plants off of this list, however, it is important to consider the actual conditions on the site and the design concept of the landscape plan before determining that a particular plant is suitable. Factors such as soil types, shade factors, adjacency of paving and buildings, proximity to existing on site and off site plantings, microclimate and the like will impact the suitability of a plant for a particular site.

The following is the Crop Coefficient conversion chart for determining the KC factor in the Estimated Annual Water Use formula. In determining whether to use a number at the high or low end of the range, plant location and site characteristics should be considered. Plants in heavier soils in shaded conditions would tend to need less irrigation water and it would, therefore, be appropriate to use a figure at the low end of the range. Plants in sunny areas where soil conditions are more porous would need more irrigation water and a figure at the high end of the range would be appropriate.

<b>KC CONVERSION CHART</b>	
CATEGORY 1 LOW WATER USE PLANTS	KC = 0 to 0.25
CATEGORY 2 LOW WATER USE PLANTS	KC = 0.25 to 0.35
CATEGORY 3 MEDIUM WATER USE PLANTS	KC = 0.40 to 0.60
CATEGORY 4 HIGH WATER USE PLANTS	KC = 0.60 to 0.80
CATEGORY 5 HIGH WATER USE PLANTS	KC = 0.80 or greater

For further information regarding Crop Coefficients, see the section entitled "HOW DO I USE CROP COEFFICIENT (KC) FACTORS?" on Page 9 above.

**Trees: 21 Foot Plus**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Acacia baileyana Purple Bailey Acacia	13 - 19	2			
Acacia b. "Purpurea" Purple-Leaf Acacia	18, 19	2			
Acacia decurrens Green Wattle	18, 19	2			
Acacia d. dealbata	18, 19	2			
Acacia melanoxylon Black Acacia	13 - 19	2			
Acer palmatum Japanese Maple	1 - 9 14 - 24	4			
Aesculus californica California Buckeye	18, 19	2	X		
Agonis flexuosa Peppermint Tree		3			

<b>Trees: 21 Foot Plus</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Albizia julibrissin</i> Silk Tree	All	3			
<i>Arbutus unedo</i> Strawberry Tree	11, 13, 18, 19	2			
<i>Arecastrum romanzoffianum</i> Queen Palm	15 - 17 19 - 24	4			
<i>Bauhinia variegata</i> Purple Orchid Tree	13, 18 - 23	3			
<i>Betula pendula</i> European White Birch	1 - 11 14 - 24	3			
<i>Brachychiton acerifolium</i> Australia Flame Tree	18, 19	3			
<i>Brachychiton populneum</i> Bottle Tree	13, 18, 19	3			
<i>Brahia armata</i> Mexican Blue Palm	13 - 17 19 - 24	2			

**Trees: 21 Foot Plus**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Brahia edulis</i> Guadalupe Palm	13 - 24	2			
<i>Butia capitata</i> Pindo Palm	7 - 9 13 - 24	3			
<i>Callistemon rigidus</i> Stiff Bottlebrush	13, 18, 19	2			
<i>Callistemon viminalis</i> Weeping Bottlebrush	18, 19	2			
<i>Calocedrus decurrens</i> Incense Cedar	2, 3, 11, 18, 19	2	X	X	
<i>Casuarina cunninghamiana</i> River She-Oak	13, 18, 19	2			
<i>Casuarina equisetifolia</i> Horsetail Tree	13, 18, 19	3			
<i>Cedrus atlantica</i> Atlas Cedar	All	2			

<b>Trees: 21 Foot Plus</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Cedrus deodara</i> Deodar Cedar	2, 3, 11, 18, 19	2			
<i>Ceratonia siliqua</i> Carob	13, 18, 19	2			
<i>Cercidium floridum</i> Blue Palo Verde	11, 13, 18, 19	2	X	X	
<i>Chamaerops humilis</i> Mediterranean Fan Palm	11, 13, 18, 19	2			
<i>Chorisia speciosa</i> Floss Silk Tree	18, 19	3			
<i>Cinnamomum camphora</i> Camphor Tree	8, 12 - 24	3			
Citrus varieties	Varies	3			
<i>Cotinus coggygria</i> Smoke Tree	All	1			

**Trees: 21 Foot Plus**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Cupaniopsis anacardioides Carrot Wood	16, 17 19 - 24	3			
Cupressocyparis leylandii Evergreen Tree	3, 11, 13, 18, 19	3			
Cupressus sempervirens Italian Cypress	4 - 24	2			
Elaeagnus angustifolia Russian Olive	All	2			
Eriobotrya deflexa Bronze Loquat	11, 13, 18, 19	3			
Eriobotrya japonica Loquat	11, 13, 18, 19	3			
Erythea armata Mexican Blue Palm	13, 19	2	X		
Erythea edulis Guadalupe Palm	13, 18, 19	2			

<b>Trees: 21 Foot Plus</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Eucalyptus camaldulensis River Red Gum	11, 13, 18, 19	2			Hardy to 12 - 15 degrees F.
Eucalyptus citriodora Lemon Scented Gum	11, 13, 18, 19	2			
Eucalyptus ficifolia Red-Flowering Gum	11, 13, 19, 19	2			
Eucalyptus globulus "compacta" Dwarf Blue Gum	11, 13, 18, 19	2			Hardy to 17 - 22 degrees F.
Eucalyptus lehmannii Bushy Yate	11, 13, 18, 19	2			Hardy to 14 - 18 degrees F.
Eucalyptus leucoxylon White Ironbark	11, 13, 18, 19	2			Hardy to 14 - 18 degrees F.
Eucalyptus I. macrocarpa "Rosea" Large-Fruited Red-Flowering Gum	11, 13, 18, 19	2			Hardy to 8 - 12 degrees F.

**Trees: 21 Foot Plus**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Eucalyptus niphophila Snow gum	11, 13, 18, 19	2			Hardy to 0 - 10 degrees F.
Eucalyptus polyanthemos Silver Dollar Gum	11, 13, 18, 19	2			Hardy to 14 - 18 degrees F.
Eucalyptus pulverulenta Silver Mountain Gum	11, 13, 18, 19	2			Hardy to 15 - 21 degrees F.
Eucalyptus rudis Desert or Swamp Gum	11, 13, 18, 19	2			Hardy to 12 - 18 degrees F.
Eucalyptus sideroxylon Pink or Red Ironbark	11, 13, 18, 19	2			Hardy to 10 - 15 degrees F.
Eucalyptus sideroxylon "Rosea" Red Ironbark	11, 13, 18, 19	2			Hardy to 10 - 15 degrees F.
Eucalyptus viminalis Manna Gum	11, 13, 18, 19	2			Hardy to 12 - 15 degrees F.
Faxinus depetala Foothill Ash	11, 13	1	X	X	

<b>Trees: 21 Foot Plus</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Ficus retusa</i> Indian Laurel Fig	9, 13 - 24	3			
<i>Geijera parviflora</i> Australian Willow	13, 18, 19	3			
<i>Ginkgo biloba</i> Maidenhair Tree	2, 3, 18, 19	3			Deciduous
<i>Gleditsia triacanthos</i> Honey Locust	All	3			Deciduous
<i>Grevillea robusta</i> Silk Oak	13, 18, 19	2			
<i>Jacaranda acutifolia</i> Jacaranda	9, 13 - 24	3			
<i>Juglans californica</i> California Walnut	3, 18, 19	2	X		
<i>Koelreuteria bipinnata</i> Chinese Flame Tree	11, 13, 18, 19	3			

**Trees: 21 Foot Plus**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Koelreuteria paniculata</i> Goldenrain Tree	All	3			
<i>Lagerstroemia indica</i> Crape Myrtle	All	3			
<i>Laurus nobilis</i> Sweet Bay	13, 18, 19	3			
<i>Leptospermum laevigatum</i> Australian Tea Tree	18, 19	2			
<i>Leptospermum scoparium</i> New Zealand Tea Tree	18, 19	3			
<i>Liquidambar styraciflua</i> American Sweet Gum	1 - 9 14 - 24	3			
<i>Liriodendron tulipifera</i> Tulip Tree	1 - 10 14 - 23	3			

<b>Trees: 21 Foot Plus</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Lyonothamnus floribundus</i> <i>asplenifolius</i> Fernleaf Catalina Ironwood	18, 19	3	X		
<i>Magnolia grandiflora</i> Southern Magnolia	4 - 12 14 - 24	3			
<i>Maytenus boaria</i> Mayten Tree	18, 19				
<i>Melaleuca linariifolia</i> Flaxleaf Paperbark	13, 18, 19	3			
<i>Melaleuca styphelioides</i>	13, 18, 19	3			
<i>Olea europaea</i> Olive	11, 13, 18, 19	2			
<i>Olea e. "Fruitless"</i> Fruitless Olive	11, 13, 18, 19	2			
<i>Olneya tesota</i> Desert Ironwood	13, 19	2	X	X	May Freeze

**Trees: 21 Foot Plus**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Parkinsonia aculeata Mexican Palo Verde	11, 13, 18, 19	2	X		
Phoenix dactylifera Date Palm	13, 18, 19	2			
Pinus attenuata Knobcone Pine	3, 18, 19	2	X		
Pinus canariensis Canary Island Pine		3			
Pinus coulteri Coulter Pine	All	2	X	X	
Pinus edulis Two Leaf Pinon		2	X		
Pinus canariensis Canary Island Pine		3			
Pinus eldarica Mondell Pine		2			

<b>Trees: 21 Foot Plus</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Pinus halepensis Aleppo Pine		3			
Pinus pinea Italian Stone Pine		2			
Pinus torreyana Torrey Pine		2	X		
Pistacia chinensis Chinese Pistache	3, 11, 13, 18, 19	2			
Pistacia vera Pistachio Nut	11, 18, 19	2			
Pittosporum rhombifolium Queensland Pittosporum	13, 18, 19	3			
Pittosporum undulatum Victorian Box	16, 17 21 - 24	3			
Platanus acerifolia London Plane Tree	All	3			

**Trees: 21 Foot Plus**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Platanus racemosa California Sycamore	11, 13, 18, 19	2	X	X	
Podocarpus gracilior Fern Pine	8, 9, 12 13 - 24	3			
Podocarpus macrophyllus Yew Pine	4 - 9 12 - 24	3			
Populus fremontii Fremont Cottonwood	11, 13, 18, 19	3	X	X	
Prosopis chiloensis Mesquite	11, 13, 18, 19	2			
Prunus cerasifera Cherry Plum	2 - 22	3			
Prunus cerasifera "Pissardii" Purple Leaf Plum	2 - 22	3			
Prunus caroliniana Carolina Laurel Cherry	11, 13, 18, 19	3			

<b>Trees: 21 Foot Plus</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Prunus lyonii</i> Catalina Cherry	13, 18, 19	2	X		
<i>Pseudotsuga macrocarpa</i> Big Cone Spruce	2, 3, 11, 18, 19	3	X	X	
<i>Pyrus calleryana</i> Bradford Pear	2 - 9 12 - 24	3			
<i>Pyrus kawakamii</i> Evergreen Pear	8 - 9 12 - 24	3			
<i>Quercus agrifolia</i> Coast Live Oak	18, 19	2	X	X	
<i>Quercus chrysolepis</i> Canyon Live Oak	13, 18, 19	2	X	X	
<i>Quercus douglasii</i> Blue Oak	All	2	X		
<i>Quercus englemannii</i> Mesa Oak	18, 19	2	X	X	

**Trees: 21 Foot Plus**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Quercus ilex Holly Oak	11, 13, 18, 19	3			
Quercus kelloggii California Black Oak	2, 3, 18, 19	3	X	X	
Quercus lobata Valley Oak	All	2	X		
Quercus suber Cork Oak	11, 13, 18, 19	2			
Quercus wislizenii Interior Live Oak	18, 19	2	X	X	
Rhamnus alaternus Italian Buckthorn	11, 13, 18, 19	2			
Rhus lancea African Sumac	13, 18, 19	2			
Robinia pseudoacacia Black Locust	All	2			

<b>Trees: 21 Foot Plus</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Sambucus mexicana</i> Mexican Elderberry	All	1	X	X	
<i>Schinus molle</i> California Pepper Tree	13, 18, 19	1			
<i>Schinus terebinthifolius</i> Brazilian Pepper	13, 19	2			
<i>Sequoia sempervirens</i> (cultivars) Coast Redwood	18, 19	3			
<i>Sequoiadendron giganteum</i> Giant Sequoia	All	3			
<i>Trachycarpus fortunei</i> Windmill Palm	4 - 24	2			
<i>Tristania conferta</i> Brisbane Box	19 - 24	3			

**Trees: 21 Foot Plus**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Ulmus parvifolia Chinese Evergreen Elm	8, 9, 12 - 24	3			
Umbellularia californica California Bay	13, 18, 19	2	X		
Washingtonia filifera California Fan Palm	11, 13, 18, 19	2	X	X	
Washingtonia robusta Mexican Fan Palm	11, 13, 18, 19	2			
Zelkova serrata Sawleaf Zelkova	3, 11, 13, 18, 19	3			
Zizyphus jujuba Chinese Jujube	11, 13, 18, 19	2			

<b>Large Shrubs 11 - 20 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Acacia cultriformis</i> Knife Acacia	13 - 19	2			
<i>Acacia cyclops</i>	13 - 19	2			
<i>Acacia farnesiana</i> Sweet Acacia	13 - 19	2			
<i>Acacia greggii</i> Catclaw Acacia	11, 13, 19	2	X	X	
<i>Acacia longifolia</i> Sydney Golden Wattle	18, 19	2			
<i>Acacia podalyriaefolia</i> Pearl Acacia	13 - 19	2			
<i>Acacia verticillata</i>	18, 19	2			
<i>Adenostoma sparsifolium</i> Red Shank	3, 11, 18, 19	1	X	X	

**Large Shrubs 11 - 20 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Arctostaphylos glandulosa Eastwood Manzanita	3, 18, 19	1	X	X	
Arctostaphylos glauca Bigberry Manzanita	3, 18, 19	1	X	X	
Baccharis pilularis consanguinea Coyote Brush	18, 19	2	X		
Baccharis viminea Mule Fat	11, 13, 18, 19	2	X	X	
Bougainvillea Species	13, 19	2			Will Freeze
Caesalpinia gilliesii Bird of Paradise Bush	11, 13, 18, 19	2			
Caesalpinia pulcherrima Dwarf Poinciana	13, 18, 19	2			
Callistemon citrinus Lemon Bottlebrush	13, 18, 19	2			Trouble with Chlorosis in Zone 13

<b>Large Shrubs 11 - 20 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Ceanothus leucodermis Chaparral Whitethorn	13, 18, 19	2	X	X	
Ceanothus griseus "Louis Edmunds"	18, 19	2	X		
Ceanothus g. "Ray Hartman"	18, 19	2			
Ceanothus cyaneus "Sierra Blue"	18, 19	2	X		
Cercidium floridum Blue Palo Verde	11, 13, 18, 19	2	X	X	
Cercis occidentalis Western Redbud	All	2	X		
Cercocarpus betuloides Mountain Mahogany	11, 13, 18, 19	1	X	X	
Cercocarpus ledifolius Curl-leaf Mountain Mahogany	All	1	X	X	

**Large Shrubs 11 - 20 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Chamaerops humilis</i> Mediterranean Fan Palm	11, 13, 18, 19	2			
<i>Chilopsis linearis</i> Desert Willow	11, 13, 18, 19	2	X	X	
<i>Cotinus coggygria</i> Smoke Tree	All	1			
<i>Dodonaea viscosa</i> Hopseed Bush	13, 18, 19	2			
<i>Dracaena draco</i> Dragon Tree	16, 17 21 - 24	2			
<i>Elaeagnus angustifolia</i> Russian Olive	All	2			
<i>Elaeagnus pungens</i> Silverberry	11, 13, 18, 19	2			
<i>Erythrina</i> Coral Tree	12, 13, 19 - 24				

<b>Large Shrubs 11 - 20 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Eucalyptus rhodantha</i> Roselike Eucalyptus	11, 13, 18, 19	2			Hardy to 8 - 12 degrees F.
<i>Feijoa sellowiana</i> Pineapple Guava	13, 18, 19	3			
<i>Fraxinus dipetala</i> Foothill Ash	11, 13	1	X		
<i>Fremontodendron californicum</i> Common Flannel Bush	3, 11, 13, 18, 19	1	X	X	No Summer Water
<i>Fremontodendron mexicanum</i> Southern Flannel Bush	11, 13, 18, 19	1	X		No Summer Water
<i>Fremontodendron</i> selected hybrids	3, 11, 13, 18, 19	1	X		No Summer Water
<i>Garrya flavescens</i> Pale Tasselbush	3, 18, 19	2	X	X	
<i>Heteromeles arbutifolia</i> Toyon	11, 13, 18, 19	1	X	X	Red Berries in Winter, Nice Small Tree

**Large Shrubs 11 - 20 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Juglans californica California Walnut	3, 18, 19	2	X		
Juniperus species	All	2			
Melaleuca elliptica	13, 18, 19	3			
Nerium oleander Oleander	11, 13, 18, 19	2			
Olneya tesota Desert Ironwood	13, 19	2	X	X	Will Freeze
Photinia fraseri	11, 13, 18, 19	3			
Photinia serrulata Chinese Photinia	11, 13, 18, 19	3			
Pinus edulis Two Leaf Pinon		2	X		

<b>Large Shrubs 11 - 20 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Prosopis glandulosa torreyana</i> Mesquite	11, 13, 18, 19	2	X	X	
<i>Prunus caroliniana</i> Carolina Laurel Cherry	11, 13, 18, 19	3			
<i>Prunus ilicifolia</i> Holly Leaf Cherry	13, 18, 19	1	X	X	
<i>Prunus lyonii</i> Catalina Cherry	13, 18, 19	2	X		
<i>Psidium guajava</i> Guava	13, 19	4			
<i>Punica granatum</i> Pomegranate	11, 13, 18, 19	2			
<i>Pyracantha species</i> Firethorn	11, 13, 18, 19	2			
<i>Quercus dumosa</i> California Scrub Oak	18, 19	1	X	X	

**Large Shrubs 11 - 20 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Quercus wislizenii</i> Interior Live Oak	18, 19	2	X	X	
<i>Rhamnus alaternus</i> Italian Buckthorn	11, 13, 18, 19	2			
<i>Rhamnus ilicifolia</i> Holly-Leaf Redberry	11, 13, 18, 19	1	X	X	
<i>Rhus integrifolia</i> Lemonade Berry	18, 19	2	X		Prefers Milder Climate, Use Sparingly
<i>Rhus lancea</i> African Sumac	13, 18, 19	2			
<i>Rhus laurina</i> Laurel Sumac	18, 19	1	X	X	May Freeze
<i>Rhus ovata</i> Sugar Bush	11, 13, 18, 19	1	X	X	
<i>Sambucus mexicana</i> Mexican Elderberry	All	1	X	X	

<b>Large Shrubs 11 - 20 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Schinus molle California Pepper Tree	13, 18, 19	1			
Tecoma stans Yellow Bells	13, 18, 19	2	X		
Tecomaria capensis Cape Honeysuckle	13, 18, 19	2			
Umbellularia californica California Bay	13, 18, 19	2	X		
Vauzuelinia californica Arizona Rosewood	11, 13	2	X		
Xylosma congestum Shiny Leaf Xylosma	11, 13, 18, 19	2			

**Medium Shrubs 4 - 10 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Abelia grandiflora	5-24	3			
Anisacanthus thurberi Desert Honeysuckle	8 - 13 18, 19	2			
Arctostaphylos "Howard McMinn" Manzanita	18, 19	2	X		
Arctostaphylos "Louis Edmunds" Manzanita	18, 19	2	X		
Arctostaphylos "Sentinel" Manzanita	18, 19	2	X		
Artemisia californica California Sagebrush	11, 13, 18, 19	2	X	X	
Artemisia tridentata Big Sagebrush	All	1	X	X	

<b>Medium Shrubs 4 - 10 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Atriplex canescens</i> Four Wing Saltbush	All	2	X	X	
<i>Atriplex lentiformis</i> Quail Bush	11, 13, 18, 19	2	X	X	
<i>Atriplex lentiformis breweri</i> Brewer Saltbush	18, 19	2	X	X	
<i>Buxus microphylla</i> "Japonica" Japanese Boxwood	8, 9 12 - 24	3			
<i>Calliandra californica</i>	11, 13, 18, 19	2	X		
<i>Calliandra eriophylla</i> Fairy Duster	11, 13, 18, 19	1	X	X	
<i>Camellia</i> species	4 - 9 14 - 24	4			
<i>Ceanothus</i> "Concha"	18, 19	2	X		

**Medium Shrubs 4 - 10 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Ceanothus crassifolius Hoaryleaf Ceanothus	3, 18, 19	1	X	X	
Ceanothus cuneatus Common Buckbrush	13, 18, 19	2	X	X	
Ceanothus greggii Cupleaf Ceanothus	3, 11, 18, 19	1	X	X	
Ceanothus integerrimus Deer Brush	13, 18, 19	2	X	X	
Ceanothus "Joyce Coulter"	18, 19	2			
Ceanothus "Julia Phelps"	18, 19	2			
Ceanothus megacarpus Big Pod Ceanothus	3, 18, 19	2	X		
Ceanothus "Skylark"	18, 19	2			
Ceanothus "Snowflurry"	18, 19	2			

<b>Medium Shrubs 4 - 10 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Ceanothus verrucosus</i> Warty Stem Ceanothus	3, 18, 19	2	X		
<i>Chamaelaucium uncinatum</i> Geraldton Waxflower	13, 18, 19	3			
<i>Cistus ladaniferus maculatus</i> Crimson-Spot Rockrose	13, 18, 19	3			
<i>Cistus purpureus</i> Orchid Rockrose	13, 18, 19	2			
<i>Cotoneaster lactea</i> Red Clusterberry	11, 13, 18, 19	3			
<i>Cycas revoluta</i> Sago Palm	11, 13, 18, 19	3			
<i>Cytisus species</i>	Varies				
<i>Dalea greggii</i>	13, 19	2			

**Medium Shrubs 4 - 10 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Dalea spinosa Smoke Tree	All	2	X	X	
Dendromecon rigida Bush Poppy	3, 18, 19	1	X	X	
Diplacus longiflorus Bush Monkey Flower	18, 19	2	X		
Echium fastuosum (perennial) Pride of Madeira	18, 19	2			Frost Tender
Euryops pectinatus	19	3			
Fallugia paradoxa Apache Plume	All	1	X	X	
Glavezia speciosa Island Bush-Snap Dragon	18, 19	3	X		
Grevillea "Noellii"	13, 18, 19	2			

<b>Medium Shrubs 4 - 10 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Isomeris arborea Bladder Pod	3, 11, 13, 18, 19	1	X	X	
Juniperus species Juniper	All	2			
Larrea tridentata Creosote Bush	11, 13, 19	1	X	X	
Leucophyllum "Green Cloud" Texas Ranger	11, 13, 18, 19	2			
Leucophyllum "White Cloud" Texas Ranger	11, 13, 18, 19	2			
Leucophyllum frutescens Texas Ranger	11, 13, 18, 19	2			
Leucophyllum zygophyllum		2			
Lupinus arboreus Silver Lupine	3, 18, 19	2	X		

**Medium Shrubs 4 - 10 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Lupinus arboreus		2	X		
Mahonia aquifolium Oregon Grape	All	3			
Mahonia nevinii Nevin Mahonia	11, 13, 18, 19	2	X		
Nandina domestica Heavenly Bamboo	11, 13, 18, 19	3			
Nerium oleander "Little Red"	11, 13, 18, 19	2			
Nerium oleander "Little White"	11, 13, 18, 19	2			
Penstemon antirrhinoides Evergreen Shrub	11, 13, 18, 19	1	X	X	
Pittosporum tobira Tobira	11, 13, 18, 19	3			

<b>Medium Shrubs 4 - 10 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Plumbago auriculata Cape Plumbago	13, 18, 19	2			
Pyracantha species Firethorn	11, 13, 18, 19	2			
Rhamnus californica Coffee Berry	11, 13, 18, 19	2	X	X	
Rhamnus californica "Eve Case" Coffee Berry	11, 13, 18, 19	2			
Rhamnus ilicifolia Holly-Leaf Redberry	11, 13, 18, 19	1	X	X	
Rhamnus crocea Redberry	18, 19	1	X	X	
Rhus integrifolia Lemonade Berry	18, 19	2	X		Prefers Milder Climate, Use Sparingly
Rhus laurina Laurel Sumac	18, 19	1	X	X	May Freeze

**Medium Shrubs 4 - 10 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Ribes aureum Golden Currant	All	2	X		
Ribes sanguineum glutinosum Pink Flowering Currant	18, 19	2	X		
Ribes speciosum Fuchsia-Flowering Gooseberry	18, 19	2	X		
Romneya coulteri Matilija Poppy	All	1	X	X	
Rosmarinus officinalis Rosemary	11, 13, 18, 19	2			
Salvia "Allen Chickering"		2			
Salvia apiana White Sage		1	X	X	
Salvia greggii Autumn Sage	11, 13, 18, 19	2	X		

<b>Medium Shrubs 4 - 10 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Salvia leucophylla Purple Sage	11, 13, 18, 19	2	X		
Salvia mellifera Black Sage	3, 18, 19	1	X	X	
Simmondsia chinensis Jojoba	11, 13, 19	1	X	X	
Spartium junceum Spanish Broom	11, 13, 18, 19	2			
Strelitzia Bird of Paradise	22 - 24	3			Frost prone in zone 19. Grow only in protected areas
Teucrium fruticans Bush Germander	11, 13, 18, 19				
Thevetia peruviana Yellow Oleander	13				

**Medium Shrubs 4 - 10 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Trichostema lunatum Wooly Blue Cruris	18, 19	1	X		
Westringia rosmariniformis	19				
Woodwardia fimbriata Giant Chain Fern	18, 19	4	X	X	
Xylosma congestum Shiny Xylosma	3, 11, 13, 18, 19	2			
Xylosma congestum Compacta Dwarf Shiny Xylosma	11, 13, 18, 19	2			
Yucca gloriosa Spanish Dagger	13, 18, 19	2			
Yucca gloriosa "Variegata"		2			
Yucca pendula glauca	13, 18, 19	3			
Yucca schidigera Mojave Yucca	11, 13, 18, 19	1	X	X	



**Small Shrubs 1 - 3 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Acacia redolens	13 - 19	2			
Achillea species Yarrow	All	3	X	X	
Agapanthus africanus Lily of the Nile	13, 18, 19	2			
Agapanthus africanus "Alba" Lily of the Nile	13, 18, 19	2			
Agapanthus "Peter Pan" Dwarf Lily of the Nile	13, 18, 19	2			
Agave american "Variegata" Century Plant	13, 18, 19	1			
Agave desertii Desert Agave	3, 11, 13, 18, 19	1	X	X	
Aloe Vera Medicinal Aloe	13, 18, 19	1			

<b>Small Shrubs 1 - 3 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Alyogyne huegelii Blue Hibiscus	11, 13, 18, 19	3			
Arbutus unedo "Compacta" Strawberry Tree	11, 13, 18, 19	2			
Arctostaphylos "Carmel Sur" Manzanita	18, 19	2	X		
Arctostaphylos "Danville" Manzanita	18, 19	2	X		
Arctostaphylos "Emerald Carpet" Manzanita	18, 19	2			
Arctostaphylos "Little Sur" Manzanita	18, 19	2	X		
Arctostaphylos "Monterey Carpet" Manzanita	18, 19	2	X		

**Small Shrubs 1 - 3 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Arctostaphylos "Pacific Mist" Manzanita	18, 19	2			
Arctostaphylos "Point Reyes" Manzanita	2, 3, 18, 19	2	X		
Arctostaphylos "Sea Spray" Manzanita	18, 19	2			
Arctostaphylos uva-ursi Bearberry	2, 3, 18, 19	2	X		
Arctostaphylos "Winterglow" Manzanita	18, 19	2			
Arctotis grandis African Daisy	18, 19	3			
Argemone species Prickly Poppy	All	2			
Armaria maritima Sea Pink, Common Thrift	All	3			

<b>Small Shrubs 1 - 3 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Artemisia californica</i> California Sagebrush	11, 13, 18, 19	2	X	X	
<i>Artemisia</i> "Canyon Grey"	11, 13, 18, 19	2	X		
<i>Artemisia caucasian</i> Silver Spreader	All	2			
<i>Artemisia pycnocephala</i> Sandhill Sage	18, 19	3			
<i>Asparagus densiflorus</i> "Sprengeri" Sprenger Asparagus	12 - 24	2			
<i>Atriplex glauca</i>	11, 13, 18, 19	1			
<i>Atriplex semibaccata</i> Australian Saltbush	13, 18, 19	1			
<i>Baccharis</i> "Centennial"	11, 13	2	X		

**Small Shrubs 1 - 3 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Baccharis pilularis "Twin Peaks" Dwarf Coyote Brush	11, 13, 19	2	X		
Baccharis pilularis "Pigeon Point"	11, 13, 19	2	X		
Beloperone californica Chuparosa	11, 13	1	X	X	
Calliandra tweedii Trinidad Flame Bush	13, 18, 19	3			Freeze back, but recovers in zone 13
Calycanthus occidentalis Spice Bush	18, 19	3	X		
Carissa grandiflora "Tuttle" Natal Plum	13, 18, 19	3			
Carpenteria californica Bush Anemone	18, 19	2	X		

<b>Small Shrubs 1 - 3 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Cassia artemisioides Feathery Cassia	13, 18, 19	2			
Cassia candoleana	13, 18, 19	3			
Cassia nemophila	13, 18, 19	2			
Cassia odorata		2			
Cassia wislizenii		2			
Ceanothus griseus Carmel Ceanothus	18, 19	2	X		
Ceanothus griseus horizontalis Carmel Creeper Ceanothus	18, 19	2			
Ceanothus "Santa Ana"	18, 19	2			
Ceanothus "Yankee Point"	18, 19	2			
Centaurea cineraria Dusty Miller	11, 13, 18, 19	2			

**Small Shrubs 1 - 3 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Centranthus ruber Jupiter's Beard, Red Valerian		2			
Cistus crispus	13, 18, 19	2			
Cistus corbariensis White Rockrose	13, 18, 19	2			
Cistus salvifolius Sageleaf Rockrose	13, 18, 19	2			
Cistus villosus	13, 18, 19	2			
Clivia miniata Kaffir Lily	15 - 17 19 - 24	3			
Convolvulus cneorum Bush Morning Glory	13, 18, 19	2			
Convolvulus mauritanicus Morning Glory	18, 19	3			

<b>Small Shrubs 1 - 3 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Coreopsis lanceolata Coreopsis	All	2			
Cotoneaster buxifolius	11, 13, 18, 19	3			
Cotoneaster congesta	All	2			
Dalea greggii	13, 19	2			
Dasyilirion wheelerii Desert Spoon	18, 19	2	X		
Deplacus puniceus Red Monkey Flower	3, 18, 19	2	X	X	
Dryopteris erythrosora Autumn Fern	All	3			
Encelia farinosa Desert Brittlebush	11, 13, 18, 19	1	X	X	

**Small Shrubs 1 - 3 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Eriogonum arborescens Santa Cruz Island Buckwheat	18, 19	2	X		
Eriogonum fasciculatum California Buckwheat	18, 19	1	X	X	
Eriogonum fasciculatum "Wildwood"	18, 19	2	X		
Eriogonum giganteum St. Catherine's Lace	18, 19	2	X		
Eriophyllum confertiflorum Golden Yarrow	18, 19	2	X		
Felicia amelloides Blue Marguerite	13, 18, 19	4			
Galvezia juncea	18, 19	3	X		
Grevillea thelemanniana Hummingbird Bush, Spider Net Grevillea	18, 19	2			

<b>Small Shrubs 1 - 3 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Helianthemum Nummularium Sunrose	All	2			
Hemerocallis sp. hybrids Day Lily	All	3			
Heuchera maxima Island Alum Root	18, 19	3	X		Needs Shade
Heuchera sanguinea Coral Bells	All	3	X		Needs Shade
Iris douglasiana Pacific Coast Iris	11, 13, 18, 19	2	X		
Iva hayesiana Hayes Iva	18, 19	2	X		Deer & Rabbit Repel- lant/Good all soils, Erosion Control
Juniperus species Juniper	All	2			

**Small Shrubs 1 - 3 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Keckiella Cordifolia Heart Leaf Penstemon	3, 18, 19	2	X	X	
Kniphofia uvaria (Perennial) Red Hot Poker	2, 3, 18, 19	2			
Lantana camara	13, 18, 19	2			May Freeze but recover
Lantana montevidensis	13, 18, 19	2			
Lavandula angustifolia English Lavender	11, 13, 18, 19	2			
Lavandula dentata French Lavender	13, 18, 19	2			
Leptodactylon californicum Prickly Phlox	18, 19	2	X		
Leucophyllum frutescens "Compactum" Texas Ranger	11, 13, 18, 19	2			

<b>Small Shrubs 1 - 3 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Limonium perezii</i> (perennial) Sea Lavender	13	2	X		
<i>Linum perenne</i> Perennial Blue Flax	All	3			
<i>Liriope muscari</i> (perennial) Big Blue Lily Turf	13, 18, 19	3			
<i>Lonicera subspicata</i> Chaparral Honeysuckle		2			
<i>Lotus berthelotii</i> (perennial) Parrot's Beak	18, 19	3			
<i>Lotus scoparius</i> Deerweed		1	X	X	
<i>Mahonia aquifolium</i> "compacta" Dwarf Oregon Grape	All	3			Averages 2 ft. Tall
<i>Mahonia repens</i> Creeping Mahonia	All	3			

**Small Shrubs 1 - 3 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Moraea "Bicolor" Butterfly Iris	13, 18, 19	3			
Moraea iridiodes (Dietes) Fortnight Lily	13, 18, 19	2			
Myoporum pacifica	18, 19	3			
Myoporum parvifolium	18, 19	3			
Nerium oleander "Petite Pink"	11, 13, 18, 19	2			
Nerium oleander "Petite Salmon"	11, 13, 18, 19	2			
Nolina parryi Parry's Nolina	13, 18, 19	1	X		
Oenothera missouriensis (perennial)	All	2			

<b>Small Shrubs 1 - 3 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Oenothera species Evening Primrose	All	2			Several to choose from
Osteospermum fruticosum Freeway Daisy (African Queen)	18, 19	3			
Pennisetum setaceum Fountain Grass	All	2			
Penstemon centranthifolius		2	X	X	
Penstemon "Cherry Glow"		2			
Penstemon gloxinioides Garden Penstemon	All	2			
Penstemon heterophyllus	11, 13, 18, 19	1	X	X	
Penstemon spectabilis Showy Penstemon	11, 13, 18, 19	1	X	X	

**Small Shrubs 1 - 3 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Pittosporum tobira "Wheelerii" Wheeler's Dwarf	11, 13, 18, 19	3			
Pyracantha species Firethorn	11, 13, 18, 19	2			
Raphiolepis indica varieties India Hawthorn	18, 19	3			
Ribes indecorum White Flowered Currant					
Ribes speciosum Fuchsia-Flowering Gooseberry	18, 19	2	X		
Ribes viburnifolium Evergreen Currant	18, 19	3	X		Requires Some Shade
Rosmarinus officinalis "Prostratus" Dwarf Rosemary	11, 13, 18, 19	2			
Salvia "Allen Chickering"		2			

<b>Small Shrubs 1 - 3 Foot</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Salvia clevelandii Cleveland Sage	11, 13, 18, 19	1	X		
Salvia leucantha Mexican Bush Sage	11, 13, 18, 19	2	X		
Salvia leucophylla Purple Sage	11, 13, 18, 19	2	X		
Salvia officinalis Garden Sage	All	2			
Santolina chamaecyparissus Lavender Cotton	All	2			
Santolina virens Green Santolina	All	2			
Sisyrinchium bellum Blue-eyed Grass	11, 13, 18, 19	2	X	X	
Trichostema lunatum Wooly Blue Curls	18, 19	1	X		

**Small Shrubs 1 - 3 Foot**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Tulbaghia violacea Society Garlic	13, 18, 19	2			
Westringia rosmariniformis	19				
Xylosma congestum "Compacta" Dwarf Shiny Xylosma	11, 13, 18, 19	2			
Yucca whipplei Our Lord's Candle	3, 11, 13, 18, 19	1	X	X	
Zauschneria californica California Fuchsia	3, 13, 18, 19	1	X	X	

<b>Vines</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Bignonia tweediana</i> Cats Claw	18, 19	3			
<i>Bougainvillea</i> spp	13, 19	2			Will Freeze
<i>Campsis radicans</i> Trumpet Creeper	All	3			
<i>Cissus antarctica</i> Kangaroo Vine	18, 19	3			Sun to Shade
<i>Gelsemium sempervirens</i> Carolina Jessamine	18, 19	3			
<i>Keckiella cordifolia</i> Heart Leaf Penstemon	3, 18, 19	2	X	X	
<i>Lonicera subspicata</i> Chaparral Honeysuckle		2	X	X	
<i>Parthenocissus tricuspidata</i> Boston Ivy	All	3			Deciduous, Shade

**Vines**

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Rosa banksiae Banks Rose	All	3			
Solanum jasminoides Potato Vine	18, 19	3			
Tecomaria capensis Cape Honeysuckle	12, 13, 16, 18 - 24	2			
Vitis girdiana Desert Grape	All	2	X	X	Deciduous, Fast Growth
Wisteria species	All	3			Deciduous

<b>Turf Grass</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Buchloe dactyloides Buffalo Grass	All	2			
Cynodon species Hybrid Bermuda Grass	All	3			
Cynodon dactylon Common Bermuda Grass	All	3			
Festuca elatior Tall Fescue	All	4			
Lolium perenne Perennial Rye Grass	All	5			
Stenotaphrum secundatum St. Augustine Grass	13, 18, 19	3			
Zoysia japonica Zoysiagrass	All	3			

### Bedding Plants

Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
<i>Ageratum houstonianum</i> Floss Flower	All	3			
<i>Armoria maritima</i> Sea Pink	All	3			
<i>Cerastium tomentosum</i> Snow in Summer	All				
<i>Coreopsis</i> species	Varies	3			Annuals & Perennials Yellow to Red Flowers
<i>Cosmos bipinnatus</i> Cosmos	All	3			
<i>Cosmos sulphureus</i> Yellow Cosmos		3			
<i>Eriophyllum confertiflorum</i> Golden Yarrow	18, 19	3	X		
<i>Eschscholzia californica</i> California Poppy	All	1			Full Sun, Low Water for Compactness

<b>Bedding Plants</b>					
Gaillardia grandiflora Blanket Flower	All	3			
Lobularia maritima Sweet Alyssum	All	3			Summer Only in Zones 2 & 3
Lupinus nanus Sky Lupine	18, 19	2			
Oenothera beriandieri (perennial) Mexican Evening Primrose	All	2			
Oenothera species Evening Primrose	All	2			Several to choose from
Petunia hybrids	Varies	5			
Portulaca grandiflora Rose Moss	All	3			Summer Annual, Self Seed
Salvia splendens Scarlet Sage		3			
Sisyrinchium bellum Blue-eyed Grass	11, 13, 18, 19	2	X	X	

<b>Bedding Plants</b>					
Viola species	Varies	5			

<b>Ground Covers</b>					
Botanical and Common Names	Sunset Zones	KC Category	Southwest Native	Riverside County Native	Remarks
Achillea species	All	3	X	X	
Aptenia cordifolia Red Apple	17 - 24	2			
Arctostaphylos "Carmel Sur" Manzanita	18, 19	2	X		
Arctostaphylos "Danville" Manzanita	18, 19	2	X		
Arctostaphylos "Emerald Carpet" Manzanita	18, 19	2			
Arctostaphylos "Little Sur" Manzanita	18, 19	2	X		
Arctostaphylos "Monterey Carpet" Manzanita	18, 19	2	X		

<b>Ground Covers</b>					
Arctostaphylos "Pacific Mist" Manzanita	18, 19	2			
Arctostaphylos "Point Reyes" Manzanita	2, 3, 18, 19	2	X		
Arctostaphylos "Sea Spray" Manzanita	18, 19	2			
Arctostaphylos uva-ursi Bearberry	2, 3, 18, 19	2	X		
Arctostaphylos "Winterglow" Manzanita	18, 19	2			
Artemisia "Canyon Grey"	11, 13, 18, 19	2	X		
Artemisia caucasica Silver Spreader	All	2			
Artemisia pycnocephala Sandhill Sage	18, 19	3			
Atriplex glauca	11, 13, 18, 19	1			

<b>Ground Covers</b>					
Atriplex semibaccata Australian Saltbush	13, 18, 19	1			
Baccharis "Centennial"	11, 13	2	X		
Baccharis pilularis "Twin Peaks" Dwarf Coyote Brush	11, 13, 19	2	X		
Baccharis pilularis "Pigeon Point"	11, 13, 19	2	X		
Ceanothus griseus horizontalis Carmel Creeper	18, 19	2 - 3			
Ceanothus "Yankee Point"	18, 19	2 - 3			
Cerastium tomentosum Snow in Summer	All				
Cissus antarctica Kangaroo Vine	18, 19	3			Sun to Shade
Cistus crispus	13, 18, 19	2			
Cistus corbariensis White Rockrose	13, 18, 19	2			

<b>Ground Covers</b>					
Convolvulus cneorum Bush Morning Glory	13, 18, 19	2			
Convolvulus mauritanicus Morning Glory	18, 19	3			
Delosperma alba White Trailing Ice Plant	14 - 24	2			
Drosanthemum hispidum Rosea Ice Plant	14 - 24	2			
Eriogonum fasciculatum "Wildwood"	18, 19	1 - 2	X		
Fragaria chiloensis Ornamental Strawberry	11, 13, 18, 19	3	X		Some Shade in Zones 11 & 13
Gazania species	8 - 24	3			
Helianthemum nummularium Sun Rose	All	2			
Hedera species	Varies	3			
Heuchera maxima Island Alum-root	18, 19	3	X		Needs Shade

<b>Ground Covers</b>					
Heuchera sanguinea Coral Bells	All	3	X		Needs Shade
Hypericum calycinum Aaron's Beard	All	3			
Iva Hayesiana Hayes Iva	18, 19	2	X		Deer & Rabbit Repel- lent/Good all soils/Erosion control
Juniperus species Juniper	All	2 - 3			
Lampranthus species Trailing Ice Plant	15 - 24	2			
Lippia canescens					
Lysimachia nummularia Moneywort	14 - 24	4			
Mahonia repens Creeping Mahonia	All	2 - 3			
Myoporum pacifica	18, 19	3			
Myoporum parvifolium	18, 19	2 - 3			

<b>Ground Covers</b>					
Oenothera beriandieri (perennial) Mexican Evening Primrose	All	2 - 3			
Osteospermum fruticosum Freeway Daisy (African Queen)	18, 19	2 - 3			
Pelargonium species Geranium	17 - 24	3			
Phyla nodiflora Lippia	18, 19	3			
Potentilla verna Spring Cinquefoil	All	4			
Pyracantha species Firethorn	11, 13, 18, 19	2			
Ribes viburnifolium Evergreen Currant	18, 19	3	X		Requires some Shade
Rosmarinus off. "Prostratus" Dwarf Rosemary	11, 13, 18, 19	2			
Salvia mellifera Tera Seca	3, 18, 19	1	X		

<b>Ground Covers</b>					
Salvia sonomensis Creeping Sage	3, 18, 19	2	X		
Santolina chamaecyparissus Lavender Cotton	All	2			
Santolina virens Green Santolina	All	2			
Sedum rubrotinctum Pork & Beans	18, 19	2			
Sisyrinchium bellum Blue-eyed Grass	11, 13, 18, 19	2	X	X	
Trachelospermum jasminoides Star Jasmine	8 - 24	3			
Trifolium frageriferum O'Connor's legume	11, 13, 18, 19	2 - 3			
Verbena peruviana	11, 13, 18, 19				
Vinca major	5 - 24	4			
Verbena rigida	All	2 - 3			



**APPENDIX B**

**CITY OF RIVERSIDE WATER CONSERVATION CONCEPT STATEMENT**

Staple this completed form and related attachments to the landscape and irrigation plans submitted for Design Review Board approval (Plan Check approval for model homes).

**Project Name:** \_\_\_\_\_

**Project Address:** \_\_\_\_\_

**Landscape Designer Printed Name:** \_\_\_\_\_

**Professional Title:** \_\_\_\_\_ **License number:** \_\_\_\_\_

1. The Annual Water Budget has been calculated to be \_\_\_\_\_ billing units/year. (Attach a separate sheet with calculations for each hydrozone to substantiate this figure. See sample calculation in 9 D above.

2. The Estimated Annual Water Use for this project has been calculated to be \_\_\_\_\_ billing units/year. (Attach a separate sheet with calculations for each hydrozone to substantiate this figure. See sample calculations in 10 D above.

3. The following is a brief description of the water conservation concepts employed in the design of this project.

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

**APPENDIX C**

**CITY OF RIVERSIDE CERTIFICATE OF SUBSTANTIAL COMPLETION**

**Design Review Case Number:** \_\_\_\_\_

**Project Location:** \_\_\_\_\_

**Post-Installation Inspection:** (Check indicating substantial completion)

- \_\_\_\_\_ A. Plant sizes, locations and quantities are installed per Design Review Board approved plans.
  
- \_\_\_\_\_ B. Irrigation systems are installed per Design Review Board approved plans.
  
- \_\_\_\_\_ C. Landscape Irrigation Audit has been performed and corrections have been completed as identified in audit.
  
- \_\_\_\_\_ D. Copy of this certification has been provided to owner/manager and the Riverside City Planning Department.

I/we certify that, based upon periodic site observations and a final inspection at project completion, the landscaping and irrigation of the above identified project has been substantially completed in accordance with the City of Riverside's Water Efficient Landscaping and Irrigation Ordinance and the landscape and irrigation plans and specifications approved by the City of Riverside Design Review Board.

**DESIGNER RESPONSIBLE FOR LANDSCAPE AND/OR IRRIGATION DESIGN:**

\_\_\_\_\_  
PRINTED NAME

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
PROFESSIONAL TITLE

\_\_\_\_\_  
LICENSE NUMBER

( ) - \_\_\_\_\_  
DAY TIME PHONE NUMBER

\_\_\_\_\_  
DATE

**AUDITOR RESPONSIBLE FOR IRRIGATION AUDIT:**

\_\_\_\_\_

\_\_\_\_\_

PRINTED NAME

SIGNATURE

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PROFESSIONAL TITLE

CERTIFICATION NUMBER

( ) - \_\_\_\_\_

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DAY-TIME PHONE NUMBER

DATE

Complete this form and submit it to the Design Review staff of the Riverside City Planning Department and request a final project inspection.

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rev.November 5, 2002