

## AGENDA TRANSMITTAL

**MEETING DATE:** October 20, 2015

**CITY COUNCIL AGENDA ITEM: PUBLIC HEARING:** Council Introduction of Ordinance and Waive Reading of Ordinance No. \_\_\_: Approving the Repeal of Title 20 Water-Efficient Landscaping and the Reenactment of Title 20 Water-Efficient Landscape Regulations to Comply with Governor Brown's Executive Order B-29-15 and the Regulations Promulgated by the State Water Resources Control Board in Response Thereto.

**FISCAL IMPACT:** There would be no fiscal impact associated with the adoption of this Ordinance.

**BACKGROUND:** On January 5, 2010, the City adopted the then-current State Model Water Efficient Landscaping Ordinance as Title 20 of the Suisun City Municipal Code. On April 1, 2015, Governor Brown signed Executive Order B-29-15 that directs the State Water Resources Control Board (Water Board) to take a variety of actions to achieve a 25 percent reduction in the statewide use of potable water by February, 2016. Among its provisions, the Governor's Order directed the Water Board to revise the State Model Water-Efficient Landscape Ordinance to increase water-efficiency standards for new and retrofitted landscapes through more efficient irrigation systems, graywater usage, onsite storm water capture, and by limiting the portion of landscapes that can be covered in high water usage plants.

The 2015 State Model Landscape Efficient-Water Ordinance (2015 Model Ordinance) was drafted by the State to assist local agencies with revision of local codes to support water conservation. Local agencies may adopt the Model Code as is, or use it as a reference or a template for their own landscape ordinances. All cities and counties in California are required, by December 1, 2015, to either adopt the 2015 Model Ordinance or adopt a customized local water efficient landscape ordinance that is at least as effective in conserving water as the updated Model Ordinance. If agencies do not take either of these actions, the 2015 Model Ordinance will automatically go into effect and apply. The Governor's Order also requires reporting on the implementation and enforcement of local ordinances, with required reports due by December 31, 2015. To bring the Suisun City Code up to date and into compliance with State requirements and to assist in the statewide effort to reduce water consumption in response to the continuing four year drought in California, staff recommends that the City Council adopt the 2015 State Model Water-Efficient Landscape Ordinance.

This action is exempt from review under the California Environmental Quality Act (CEQA), subject to Section 15308 of the CEQA Guidelines - Actions by Regulatory Agencies for Protection of the Environment. This exemption addresses actions taken by regulatory agencies, as authorized by state or local ordinance, to assure the maintenance, restoration, enhancement, or protection of the environment where the regulatory process involves procedures for protection of the environment.

**PREPARED BY:**  
**REVIEWED BY:**  
**APPROVED BY:**

James W. Beggs, Assistant Planner  
 Jason D. Garben, Development Services Director  
 Suzanne Bragdon, City Manager

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**STAFF REPORT:** Listed below are a descriptions of affected projects and major differences between the current City Code (2010 Model Ordinance) and the 2015 Model Ordinance:

### **Affected Projects**

The 2015 Model Ordinance will have affects on all new developments with landscaping of 500 sq feet or more or any rehabilitated landscapes of 2,500 square feet or more where such projects require a building or landscape permit, plan check or design review. The amendment sections require implementation of efficient irrigation systems, onsite stormwater capture, limiting the planting of high water use plants and new reporting requirements for local agencies.

### **Differences between current Suisun City Code and the 2015 Model Ordinance**

Irrigation systems require:

- Dedicated landscape water meters (residential 5,000 sq feet and over, non-residential 1,000 sq feet and over).
- Pressure regulators and master shut off valves now required.
- Flow sensor.
- Areas less than ten feet wide must use drip or other means that produces no runoff or overspray.

Stormwater Capture:

- Recommendation that runoff from impervious surfaces (driveways and roofs) be captured on-site.
- Improve soils in new landscape areas with 4 yards of compost per 1000 sq feet landscaped area.
- Friable Soil (loose soil) for planted area (promotes infiltration and reduces runoff).

Plants:

- 25% of landscaped area can be high water usage plants.
- Median strips cannot be landscaped with high water plants.

### **Reporting Requirements under Governor's Executive Order and the 2015 Model Ordinance**

- State whether you are adopting a single agency ordinance or a regional agency alliance ordinance, and the date of adoption or anticipated date of adoption.
- Report on a range of information related to the implementation of the 2015 Model Ordinance, including amount of development that has occurred, actions taken to ensure compliance with water conservation requirements, challenges to implementing the 2015 Model Ordinance, and public education efforts.

### **Additional Considerations**

#### **Section 492 Provisions for New Construction or Rehabilitated Landscapes**

A local agency may designate by mutual agreement, another agency, such as a water purveyor, to implement some or all of the requirements contained in this ordinance. Local agencies may collaborate with water purveyors to define each entity's specific responsibilities relating to this ordinance.

Section 492.2 Penalties

A local agency may establish and administer penalties to the project applicant for non-compliance with the ordinance to the extent permitted by law.

Section 492.1 Compliance with Landscape Documentation Package

- Prior to construction, the local agency shall:
  - Provide the project applicant with the ordinance and procedures for permits, plan checks, or design reviews;
  - Review the Landscape Documentation Package submitted by the project applicant;
  - Approve or deny the Landscape Documentation Package;
  - Issue a permit or approve the plan check or design review for the project applicant; and
  - Upon approval of the Landscape Documentation Package, submit a copy of the Water Efficient Landscape Worksheet to the local water purveyor.
- Prior to construction, the project applicant shall:
  - Submit a Landscape Documentation Package to the local agency.
- Upon approval of the Landscape Documentation Package by the local agency, the project applicant shall:
  - Receive a permit or approval of the plan check or design review and record the date of the permit in the Certificate of Completion;
  - Submit a copy of the approved Landscape Documentation Package along with the record drawings, and any other information to the property owner or his/her designee; and
  - Submit a copy of the Water Efficient Landscape Worksheet to the local water purveyor.

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**STAFF RECOMMENDATION:** It is recommended that the City Council:

1. Open the Public Hearing; and
2. Receive testimony, if any; and
3. Close the Public Hearing; and
4. Introduce and waive first reading of Ordinance No. \_\_: Approving the Repeal of Title 20 Water Efficient Landscaping and the Reenactment of Title 20 Water Efficient Landscape Regulations to Comply with Governor Brown's Executive Order B-29-15 and the Regulations Promulgated by the State Water Resources Control Board in Response Thereto.

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**ATTACHMENTS:**

1. Ordinance No. \_\_: Approving the Repeal of Title 20 Water Efficient Landscaping and the Reenactment of Title 20 Water Efficient Landscape Regulations to Comply with Governor Brown's Executive Order B-29-15 and the Regulations Promulgated by the State Water Resources Control Board in Response Thereto.
2. 2015 State Model Water Efficient Landscape Ordinance (Revisions from 2010 Water Ordinance).



ORDINANCE NO. \_\_\_\_

**AN ORDINANCE OF THE SUISUN CITY COUNCIL APPROVING THE REPEAL OF TITLE 20 WATER-EFFICIENT LANDSCAPING AND THE REENACTMENT OF TITLE 20 WATER-EFFICIENT LANDSCAPES REGULATIONS TO COMPLY WITH GOVERNOR BROWN'S EXECUTIVE ORDER B-29-15 AND THE REGULATIONS PROMULGATED BY THE STATE WATER RESOURCES CONTROL BOARD IN RESPONSE THERETO**

**WHEREAS**, the City of Suisun City, Development Services Department initiated a Municipal Code Amendment related to title 20 of the City of Suisun City Municipal Code; and

**WHEREAS**, on April 1, 2015 Governor Brown issued Executive Order B-29-15, imposing restrictions on water use in order to achieve an aggregate statewide 25 percent reduction in potable urban water usage through February 2016; and

**WHEREAS**, on May 5, 2015, in accordance with Governor's Executive Order B-29-15, the State Water Resources Control Board adopted Resolution 2015-0032 detailing emergency regulations ("Regulations") implementing a statewide 25% reduction in potable urban water use; and

**WHEREAS**, that the waters of the state are of limited supply and are subject to ever increasing demands; and

**WHEREAS**, failure to take the actions and to adopt the regulations set forth herein could subject the City of Suisun City to fines, and could threaten public health, safety, or welfare. (1) There may not be sufficient water available to the public for basic living necessities; (2) There may not be sufficient water available to the public to fight fires; and (3) There may not be sufficient water available to preserve drought tolerant landscaping, which would adversely impact property values in the city; and

**WHEREAS**, the regulations established conservation levels for water suppliers based on an average Residential Gallons per Capita per Day ("R-GPCD") for the period of July through September 2014, and the Suisun Solano Water Authority has been categorized among the cities mandated with a 28 percent potable urban water use reduction; and

**WHEREAS**, the City Council of the City of Suisun City wishes to implement comprehensive regulations in order to comply with Executive Order B-29-15, to protect the public health, safety and welfare; and

**WHEREAS**, the long-term health, safety and prosperity of the community depends upon having a reliable supply of potable water; and

**WHEREAS**, in accordance with State Law and City Code a public notice was published on October 10, 2015 in the *Daily Republic* newspaper; and

WHEREAS, the City Council of the City of Suisun City did conduct a public hearing on October 20, 2015 to consider amendments to Title 20 of the City of Suisun City Municipal Code.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SUISUN CITY** as follows:

**SECTION 1.** The City Council of the City of Suisun City finds that the above recitals are true and correct and incorporated herein by this reference.

**SECTION 2.** Title 20.04 of the Suisun City Municipal Code is hereby deleted and repealed in its entirety.

**SECTION 3.** A new Title 20.04 of the Suisun City Municipal Code is hereby added to read as follows:

“Title 20.04 State model water-efficient landscaping ordinance adopted by reference.

The City adopts by reference the California State Model Water-Efficient Landscaping Ordinance (AB 1881), and any amendments thereto, as the law of the City. One copy of the California State Model Water-Efficient Landscaping Ordinance has been, and is now, filed in the office of the Development Services Director, and the ordinance is adopted by reference as if incorporated and set out in full in this chapter.”

**SECTION 4.** The project is exempt from the requirements of the California Environmental Quality Act (CEQA), subject to section 15308, Actions by Regulatory Agencies for Protection of the Environment of the CEQA Guidelines. This section exempts from review actions taken by regulatory agencies, as authorized by state or local ordinance, to assure the maintenance, restoration, enhancement, or protection of the environment where the regulatory process involves procedures for protection of the environment and the Model Water Efficient Landscape Ordinance is exempt from review because it can be considered an action.

**SECTION 5.** The provisions of this Ordinance are declared to be severable and if any section, sentence, clause or phrase of this Ordinance shall for any reason be held to be invalid or unconstitutional, such decision shall not affect the validity of the remaining sections, sentences, clauses, and phrases of this Ordinance but they shall remain in effect, it being the legislative intent that this Ordinance shall stand notwithstanding the invalidity of any part.

**SECTION 6.** This Ordinance shall be in full force and effect thirty (30) days after its adoption following second reading.

**SECTION 7.** The City Clerk is hereby authorized and directed to certify as the passage of this Ordinance and to give notice thereof by causing copies of this Ordinance to be posted in three public places throughout the City, or published in a county newspaper that is circulated in the City, within 15 days after its passage, there being no newspaper of general circulation printed and published within the City.

**PASSED, APPROVED, AND ADOPTED** as an Ordinance at a regular meeting of the City Council of the City of Suisun City, California, on this 3<sup>rd</sup> day of November 2015.

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Pete Sanchez  
Mayor

**CERTIFICATION**

I, Linda Hobson, City Clerk of the City of Suisun City, California, do hereby certify that the foregoing Ordinance was introduced at a regular meeting of the City Council on October 20, 2015 and passed, approved, and adopted by the City Council of the City of Suisun City at a regular meeting held on the 3<sup>rd</sup> day of November 2015 by the following vote:

**AYES:** Councilmembers:

**NOES:** Councilmembers:

**ABSENT:** Councilmembers:

**ABSTAIN:** Councilmembers:

**WITNESS** my hand and the seal of said City this 3<sup>rd</sup> day of November 2015.

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Linda Hobson, CMC  
City Clerk



**TEXT OF PROPOSED REGULATIONS**

**NOTE:**

- Text proposed to be added is displayed in underlined type.
- Text proposed to be deleted is displayed in ~~strikeout~~ type.

In Division 2, Title 23, California Code of Regulations, to amend Chapter 2.7 Model Water Efficient Landscape Ordinance, Sections 490 through 495, to read as follows:

California Code of Regulations  
Title 23. Waters  
Division 2. Department of Water Resources  
Chapter 2.7. Model Water Efficient Landscape Ordinance

**§ 490. Purpose.**

(a) The State Legislature has found:

- (1) that the waters of the state are of limited supply and are subject to ever increasing demands;
- (2) that the continuation of California's economic prosperity is dependent on the availability of adequate supplies of water for future uses;
- (3) that it is the policy of the State to promote the conservation and efficient use of water and to prevent the waste of this valuable resource;
- (4) that landscapes are essential to the quality of life in California by providing areas for active and passive recreation and as an enhancement to the environment by cleaning air and water, preventing erosion, offering fire protection, and replacing ecosystems lost to development; ~~and~~
- (5) that landscape design, installation, maintenance and management can and should be water efficient; and
- (6) that Section 2 of Article X of the California Constitution specifies that the right to use water is limited to the amount reasonably required for the beneficial use to be served and the right does not and shall not extend to waste or unreasonable method of use.

(b) Consistent with the legislative findings, the purpose of this model ordinance is to:

- (1) promote the values and benefits of landscaping practices that integrate and go beyond the conservation and efficient use of water; landscapes while recognizing the need to invest water and other resources as efficiently as possible;
- (2) establish a structure for planning, designing, installing, maintaining and managing water efficient landscapes in new construction and rehabilitated projects by encouraging the use of a watershed approach that requires cross-sector collaboration of industry, government and property owners to achieve the many benefits possible;
- (3) establish provisions for water management practices and water waste prevention for existing landscapes;
- (4) use water efficiently without waste by setting a Maximum Applied Water Allowance as an upper limit for water use and reduce water use to the lowest practical amount;
- (5) promote the benefits of consistent landscape ordinances with neighboring local and regional agencies;
- (6) encourage local agencies and water purveyors to use economic incentives that promote the efficient use of water, such as implementing a tiered-rate structure; and
- (7) encourage local agencies to designate the necessary authority that implements and enforces the provisions of the Model Water Efficient Landscape Ordinance or its local landscape ordinance.

(c) Landscapes that are planned, designed, installed, managed and maintained with the watershed based approach can improve California's environmental conditions and provide benefits and realize sustainability goals. Such landscapes will make the urban environment resilient in the face of climatic extremes. Consistent with the legislative findings and purpose of the Ordinance, conditions in the urban setting will be improved by:

- (1) Creating the conditions to support life in the soil by reducing compaction, incorporating organic matter that increases water retention, and promoting productive plant growth that leads to more carbon storage, oxygen production, shade, habitat and esthetic benefits.

(2) Minimizing energy use by reducing irrigation water requirements, reducing reliance on petroleum based fertilizers and pesticides, and planting climate appropriate shade trees in urban areas.

(3) Conserving water by capturing and reusing rainwater and graywater wherever possible and selecting climate appropriate plants that need minimal supplemental water after establishment.

(4) Protecting air and water quality by reducing power equipment use and landfill disposal trips, selecting recycled and locally sourced materials, and using compost, mulch and efficient irrigation equipment to prevent erosion.

(5) Protecting existing habitat and creating new habitat by choosing local native plants, climate adapted non-natives and avoiding invasive plants. Utilizing integrated pest management with least toxic methods as the first course of action.

Note: Authority cited: Section 65593, Government Code. Reference: Sections 65591, 65593 and 65596, Government Code.

### **§ 490.1. Applicability.**

(a) After January 1, 2010, December 1, 2015, and consistent with Executive Order No. B-29-15, this ordinance shall apply to all of the following landscape projects:

(1) new construction projects with an aggregate landscape area equal to or greater than 500 square feet requiring a building or landscape permit, plan check or design review;

(2) rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 square feet requiring a building or landscape permit, plan check, or design review;

~~(1) new construction and rehabilitated landscapes for public agency projects and private development projects with a landscape area equal to or greater than 2,500 square feet requiring a building or landscape permit, plan check or design review;~~

~~(2) new construction and rehabilitated landscapes which are developer installed in single family and multi family projects with a landscape area equal to or greater than 2,500 square feet requiring a building or landscape permit, plan check, or design review;~~

~~(3) new construction landscapes which are homeowner provided and/or homeowner hired in single family and multi family residential projects with a total project landscape area equal to or greater than 5,000 square feet requiring a building or landscape permit, plan check or design review;~~

~~(3) (4) existing landscapes limited to Sections 493, 493.1 and 493.2; and~~

~~(4) (5) cemeteries. Recognizing the special landscape management needs of cemeteries, new and rehabilitated cemeteries are limited to Sections 492.4, 492.11, and 492.12; and existing cemeteries are limited to Sections 493, 493.1, and 493.2.~~

(b) For local land use agencies working together to develop a regional water efficient landscape ordinance, the reporting requirements of this ordinance shall become effective December 1, 2015 and the remainder of this ordinance shall be effective no later than February 1, 2016.

(c) Any project with an aggregate landscape area of 2,500 square feet or less may comply with the performance requirements of this ordinance or conform to the prescriptive measures contained in Appendix D.

(d) For projects using treated or untreated graywater or rainwater captured on site, any lot or parcel within the project that has less than 2500 sq. ft. of landscape and meets the lot or parcel's landscape water requirement (Estimated Total Water Use) entirely with treated or untreated graywater or through stored rainwater captured on site is subject only to Appendix D section (5).

~~(e)~~ This ordinance does not apply to:

(1) registered local, state or federal historical sites;

(2) ecological restoration projects that do not require a permanent irrigation system;

(3) mined-land reclamation projects that do not require a permanent irrigation system; or

- (4) existing plant collections, as part of botanical gardens and arboreturns open to the public.

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

#### § 491. Definitions.

The terms used in this ordinance have the meaning set forth below:

- (a) “applied water” means the portion of water supplied by the irrigation system to the landscape.
- (b) “automatic irrigation controller” means ~~an automatic~~ timing device used to remotely control valves that operate an irrigation system. Automatic irrigation controllers are able to self-adjust and schedule irrigation events using either evapotranspiration (weather-based) or soil moisture data.
- (c) “backflow prevention device” means a safety device used to prevent pollution or contamination of the water supply due to the reverse flow of water from the irrigation system.
- (d) “Certificate of Completion” means the document required under Section 492.9.
- (e) “certified irrigation designer” means a person certified to design irrigation systems by an accredited academic institution, a professional trade organization or other program such as the US Environmental Protection Agency’s WaterSense irrigation designer certification program and Irrigation Association’s Certified Irrigation Designer program.
- (f) “certified landscape irrigation auditor” means a person certified to perform landscape irrigation audits by an accredited academic institution, a professional trade organization or other program such as the US Environmental Protection Agency’s WaterSense irrigation auditor certification program and Irrigation Association’s Certified Landscape Irrigation Auditor program.
- (g) “check valve” or “anti-drain valve” means a valve located under a sprinkler head, or other location in the irrigation system, to hold water in the system to prevent drainage from sprinkler heads when the sprinkler is off.
- (h) “common interest developments” means community apartment projects, condominium projects, planned developments, and stock cooperatives per Civil Code Section 1351.
- (i) “compost” means the safe and stable product of controlled biologic decomposition of organic materials that is beneficial to plant growth.
- (~~ij~~) “conversion factor (0.62)” means the number that converts acre-inches per acre per year to gallons per square foot per year.
- (~~ik~~) “distribution uniformity” means the measure of the uniformity of irrigation water over a defined area.
- (~~jl~~) “drip irrigation” means any non-spray low volume irrigation system utilizing emission devices with a flow rate measured in gallons per hour. Low volume irrigation systems are specifically designed to apply small volumes of water slowly at or near the root zone of plants.
- (~~km~~) “ecological restoration project” means a project where the site is intentionally altered to establish a defined, indigenous, historic ecosystem.
- (~~ln~~) “effective precipitation” or “usable rainfall” (Eppt) means the portion of total precipitation which becomes available for plant growth.
- (~~mo~~) “emitter” means a drip irrigation emission device that delivers water slowly from the system to the soil.
- (~~np~~) “established landscape” means the point at which plants in the landscape have developed significant root growth into the soil. Typically, most plants are established after one or two years of growth.
- (~~eq~~) “establishment period of the plants” means the first year after installing the plant in the landscape or the first two years if irrigation will be terminated after establishment. Typically, most plants are established after one or two years of growth. Native habitat mitigation areas and trees may need three to five years for establishment.
- (~~pr~~) “Estimated Total Water Use” (ETWU) means the total water used for the landscape as described in Section 492.4.

- (~~qs~~) “ET adjustment factor” (ETAF) means a factor of 0.70.55 for residential areas and 0.45 for ~~Attachment 2~~ residential areas, that, when applied to reference evapotranspiration, adjusts for plant factors and irrigation efficiency, two major influences upon the amount of water that needs to be applied to the landscape. ~~A combined plant mix with a site wide average of 0.5 is the basis of the plant factor portion of this calculation. For purposes of the ETAF, the average irrigation efficiency is 0.71. Therefore, the ET Adjustment Factor is (0.7)=(0.5/0.71).~~ The ETAF for a new and existing (non-rehabilitated) Special Landscape Areas shall not exceed 1.0. The ETAF for existing non-rehabilitated landscapes is 0.8.
- (~~rt~~) “evapotranspiration rate” means the quantity of water evaporated from adjacent soil and other surfaces and transpired by plants during a specified time.
- (~~su~~) “flow rate” means the rate at which water flows through pipes, valves and emission devices, measured in gallons per minute, gallons per hour, or cubic feet per second.
- (~~v~~) “flow sensor” means an inline device installed at the supply point of the irrigation system that produces a repeatable signal proportional to flow rate. Flow sensors must be connected to an automatic irrigation controller, or flow monitor capable of receiving flow signals and operating master valves. This combination flow sensor/controller may also function as a landscape water meter or submeter.
- (~~w~~) “friable” means a soil condition that is easily crumbled or loosely compacted down to a minimum depth per planting material requirements, whereby the root structure of newly planted material will be allowed to spread unimpeded.
- (~~x~~) “Fuel Modification Plan Guideline” means guidelines from a local fire authority to assist residents and businesses that are developing land or building structures in a fire hazard severity zone.
- (~~y~~) “graywater” means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. “Graywater” includes, but is not limited to, wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines, and laundry tubs, but does not include wastewater from kitchen sinks or dishwashers. Health and Safety Code Section 17922.12.
- (~~tz~~) “hardscapes” means any durable material (pervious and non-pervious).
- (~~u~~) “homeowner provided landscaping” means any landscaping either installed by a private individual for a single family residence or installed by a licensed contractor hired by a homeowner. A homeowner, for purposes of this ordinance, is a person who occupies the dwelling he or she owns. This excludes speculative homes, which are not owner-occupied dwellings.
- (~~aa~~) (~~v~~) “hydrozone” means a portion of the landscaped area having plants with similar water needs and rooting depth. A hydrozone may be irrigated or non-irrigated.
- (~~bb~~) (~~w~~) “infiltration rate” means the rate of water entry into the soil expressed as a depth of water per unit of time (e.g., inches per hour).
- (~~cc~~) (~~x~~) “invasive plant species” means species of plants not historically found in California that spread outside cultivated areas and can damage environmental or economic resources. Invasive species may be regulated by county agricultural agencies as noxious species. “Noxious weeds” means any weed as described in the Food and Agricultural Code, Section 5004. Lists of invasive plants are maintained at the California Invasive Plant Inventory and USDA invasive and noxious weeds database.
- (~~dd~~) (~~y~~) “irrigation audit” means an in-depth evaluation of the performance of an irrigation system conducted by a Certified Landscape Irrigation Auditor. An irrigation audit includes, but is not limited to: inspection, system tune-up, system test with distribution uniformity or emission uniformity, reporting overspray or runoff that causes overland flow, and preparation of an irrigation schedule. The audit must be conducted in a manner consistent with the Irrigation Association’s Landscape Irrigation Auditor Certification program or other U.S. Environmental Protection Agency “Watersense” labeled auditing program.
- (~~ee~~) (~~z~~) “irrigation efficiency” (IE) means the measurement of the amount of water beneficially used divided by the amount of water applied. Irrigation efficiency is derived from measurements and estimates of irrigation system characteristics and management practices. The minimum average irrigation efficiency

for purposes of this ordinance are 0.75 for overhead spray devices and 0.81 for drip systems.~~is 0.71. Greater irrigation efficiency can be expected from well designed and maintained systems.~~

(ff) ~~(aa)~~ “irrigation survey” means an evaluation of an irrigation system that is less detailed than an irrigation audit. An irrigation survey includes, but is not limited to: inspection, system test, and written recommendations to improve performance of the irrigation system.

(gg) ~~(bb)~~ “irrigation water use analysis” means an analysis of water use data based on meter readings and billing data.

(hh) ~~(ee)~~ “landscape architect” means a person who holds a license to practice landscape architecture in the state of California Business and Professions Code, Section 5615.

(ii) ~~(dd)~~ “landscape area” means all the planting areas, turf areas, and water features in a landscape design plan subject to the Maximum Applied Water Allowance calculation. The landscape area does not include footprints of buildings or structures, sidewalks, driveways, parking lots, decks, patios, gravel or stone walks, other pervious or non-pervious hardscapes, and other non-irrigated areas designated for non-development (e.g., open spaces and existing native vegetation).

(jj) ~~(ee)~~ “landscape contractor” means a person licensed by the state of California to construct, maintain, repair, install, or subcontract the development of landscape systems.

(kk) ~~(ff)~~ “Landscape Documentation Package” means the documents required under Section 492.3.

(ll) ~~(gg)~~ “landscape project” means total area of landscape in a project as defined in “landscape area” for the purposes of this ordinance, meeting requirements under Section 490.1.

(mm) “landscape water meter” means an inline device installed at the irrigation supply point that measures the flow of water into the irrigation system and is connected to a totalizer to record water use.

(nn) ~~(hh)~~ “lateral line” means the water delivery pipeline that supplies water to the emitters or sprinklers from the valve.

(oo) ~~(ii)~~ “local agency” means a city or county, including a charter city or charter county, that is responsible for adopting and implementing the ordinance. The local agency is also responsible for the enforcement of this ordinance, including but not limited to, approval of a permit and plan check or design review of a project.

(pp) ~~(jj)~~ “local water purveyor” means any entity, including a public agency, city, county, or private water company that provides retail water service.

(qq) ~~(kk)~~ “low volume irrigation” means the application of irrigation water at low pressure through a system of tubing or lateral lines and low-volume emitters such as drip, drip lines, and bubblers. Low volume irrigation systems are specifically designed to apply small volumes of water slowly at or near the root zone of plants.

(rr) ~~(ll)~~ “main line” means the pressurized pipeline that delivers water from the water source to the valve or outlet.

(ss) “master shut-off valve” is an automatic valve installed at the irrigation supply point which controls water flow into the irrigation system. When this valve is closed water will not be supplied to the irrigation system. A master valve will greatly reduce any water loss due to a leaky station valve.

(tt) ~~(mm)~~ “Maximum Applied Water Allowance” (MAWA) means the upper limit of annual applied water for the established landscaped area as specified in Section 492.4. It is based upon the area’s reference evapotranspiration, the ET Adjustment Factor, and the size of the landscape area. The Estimated Total Water Use shall not exceed the Maximum Applied Water Allowance. Special Landscape Areas, including recreation areas, areas permanently and solely dedicated to edible plants such as orchards and vegetable gardens, and areas irrigated with recycled water are subject to the MAWA with an ETAF not to exceed 1.0.  $MAWA = (ET_o) (0.62) [(ETAF \times LA) + ((1-ETAF) \times SLA)]$

(uu) “median” is an area between opposing lanes of traffic that may be unplanted or planted with trees, shrubs, perennials, and ornamental grasses.

(vv) ~~(nn)~~ “microclimate” means the climate of a small, specific area that may contrast with the climate of the overall landscape area due to factors such as wind, sun exposure, plant density, or proximity to reflective surfaces.

~~(ww)~~ ~~(ee)~~ “mined-land reclamation projects” means any surface mining operation with a reclamation plan approved in accordance with the Surface Mining and Reclamation Act of 1975.

~~(xx)~~ ~~(pp)~~ “mulch” means any organic material such as leaves, bark, straw, compost, or inorganic mineral materials such as rocks, gravel, ~~and~~ decomposed granite left loose and applied to the soil surface for the beneficial purposes of reducing evaporation, suppressing weeds, moderating soil temperature, and preventing soil erosion.

~~(yy)~~ ~~(qq)~~ “new construction” means, for the purposes of this ordinance, a new building with a landscape or other new landscape, such as a park, playground, or greenbelt without an associated building.

~~(zz)~~ “non-residential landscape” means landscapes in commercial, institutional, industrial and public settings that may have areas designated for recreation or public assembly. It also includes portions of common areas of common interest developments with designated recreational areas.

~~(aaa)~~ ~~(rr)~~ “operating pressure” means the pressure at which the parts of an irrigation system are designed by the manufacturer to operate.

~~(bbb)~~ ~~(ss)~~ “overhead sprinkler irrigation systems” or “overhead spray irrigation systems” means systems that deliver water through the air (e.g., spray heads and rotors).

~~(ccc)~~ ~~(tt)~~ “overspray” means the irrigation water which is delivered beyond the target area.

~~(ddd)~~ “parkway” means the area between a sidewalk and the curb or traffic lane. It may be planted or unplanted, and with or without pedestrian egress.

~~(eee)~~ ~~(uu)~~ “permit” means an authorizing document issued by local agencies for new construction or rehabilitated landscapes.

~~(fff)~~ ~~(vv)~~ “pervious” means any surface or material that allows the passage of water through the material and into the underlying soil.

~~(ggg)~~ ~~(ww)~~ “plant factor” or “plant water use factor” is a factor, when multiplied by ETo, estimates the amount of water needed by plants. For purposes of this ordinance, the plant factor range for very low water use plants is 0 to 0.1, the plant factor range for low water use plants is 0.1 to 0.3, the plant factor range for moderate water use plants is 0.4 to 0.6, and the plant factor range for high water use plants is 0.7 to 1.0. Plant factors cited in this ordinance are derived from the Department of Water Resources 2000 publication “Water Use Classification of Landscape Species”. Plant factors may also be obtained from horticultural researchers from academic institutions or professional associations as approved by the California Department of Water Resources (DWR).

~~(xx)~~ “precipitation rate” means ~~the rate of application of water measured in inches per hour.~~

~~(hhh)~~ ~~(yy)~~ “project applicant” means the individual or entity submitting a Landscape Documentation Package required under Section 492.3, to request a permit, plan check, or design review from the local agency. A project applicant may be the property owner or his or her designee.

~~(iii)~~ ~~(zz)~~ “rain sensor” or “rain sensing shutoff device” means a component which automatically suspends an irrigation event when it rains.

~~(jii)~~ ~~(aaa)~~ “record drawing” or “as-builts” means a set of reproducible drawings which show significant changes in the work made during construction and which are usually based on drawings marked up in the field and other data furnished by the contractor.

~~(kkk)~~ ~~(bbb)~~ “recreational area” means areas, excluding private single family residential areas, dedicated designated for active play, recreation or public assembly such as in parks, sports fields, picnic grounds, amphitheaters and/or golf courses where turf provides a playing surface, tees, fairways, roughs, surrounds and greens.

~~(lll)~~ ~~(eee)~~ “recycled water,” “reclaimed water,” or “treated sewage effluent water” means treated or recycled waste water of a quality suitable for nonpotable uses such as landscape irrigation and water features. This water is not intended for human consumption.

~~(mmm)~~ ~~(ddd)~~ “reference evapotranspiration” or “ETo” means a standard measurement of environmental parameters which affect the water use of plants. ETo is expressed in inches per day, month, or year as represented in Appendix A Section 495.1, and is an estimate of the evapotranspiration of a large field of four- to seven-inch tall, cool-season grass that is well watered. Reference evapotranspiration is used as

the basis of determining the Maximum Applied Water Allowances so that regional differences in climate can be accommodated.

(nnn) “Regional Water Efficient Landscape Ordinance” means a local Ordinance adopted by two or more local agencies, water suppliers and other stakeholders for implementing a consistent set of landscape provisions throughout a geographical region. Regional ordinances are strongly encouraged to provide a consistent framework for the landscape industry and applicants to adhere to.

(ooo) (eee) “rehabilitated landscape” means any relandscaping project that requires a permit, plan check, or design review, meets the requirements of Section 490.1, and the modified landscape area is equal to or greater than 2,500 square feet, is 50% of the total landscape area, and the modifications are completed within one year.

(ppp) “residential landscape” means landscapes surrounding single or multifamily homes.

(qqq) (fff) “run off” means water which is not absorbed by the soil or landscape to which it is applied and flows from the landscape area. For example, run off may result from water that is applied at too great a rate (application rate exceeds infiltration rate) or when there is a slope.

(rrr) (ggg) “soil moisture sensing device” or “soil moisture sensor” means a device that measures the amount of water in the soil. The device may also suspend or initiate an irrigation event.

(sss) (hhh) “soil texture” means the classification of soil based on its percentage of sand, silt, and clay.

(ttt) (iii) “Special Landscape Area” (SLA) means an area of the landscape dedicated solely to edible plants, recreational areas, areas irrigated with recycled water, or water features using recycled water and areas dedicated to active play such as parks, sports fields, golf courses, and where turf provides a playing surface.

(uuu) (jjj) “sprinkler head” or “spray head” means a device which delivers water through a nozzle.

(vvv) (kkk) “static water pressure” means the pipeline or municipal water supply pressure when water is not flowing.

(www) (lll) “station” means an area served by one valve or by a set of valves that operate simultaneously.

(xxx) (mmm) “swing joint” means an irrigation component that provides a flexible, leak-free connection between the emission device and lateral pipeline to allow movement in any direction and to prevent equipment damage.

(yyy) “submeter” means a metering device to measure water applied to the landscape that is installed after the primary utility water meter.

(zzz) (nnn) “turf” means a ground cover surface of mowed grass. Annual bluegrass, Kentucky bluegrass, Perennial ryegrass, Red fescue, and Tall fescue are cool-season grasses. Bermudagrass, Kikuyugrass, Seashore Paspalum, St. Augustinegrass, Zoysiagrass, and Buffalo grass are warm-season grasses.

(aaa) (ooo) “valve” means a device used to control the flow of water in the irrigation system.

(ss) “water conservation concept statement” means a one page checklist and a narrative summary of the project as shown in Section 492(e)(1).

(bbbb) (ppp) “water conserving plant species” means a plant species identified as having a very low or low plant factor.

(cccc) (qqq) “water feature” means a design element where open water performs an aesthetic or recreational function. Water features include ponds, lakes, waterfalls, fountains, artificial streams, spas, and swimming pools (where water is artificially supplied). The surface area of water features is included in the high water use hydrozone of the landscape area. Constructed wetlands used for on-site wastewater treatment or stormwater best management practices that are not irrigated and used solely for water treatment or stormwater retention are not water features and, therefore, are not subject to the water budget calculation.

(dddd) (rrr) “watering window” means the time of day irrigation is allowed.

(eeee) (sss) “WUCOLS” means the Water Use Classification of Landscape Species published by the University of California Cooperative Extension, and the Department of Water Resources and the Bureau of Reclamation, 20002014.

Note: Authority cited: Section 65595, Government Code. Reference: Sections 65592 and 65596, Government Code.

**§ 492. Provisions for New Construction or Rehabilitated Landscapes.**

(a) A local agency may designate by mutual agreement, another agency, such as a water purveyor, to implement some or all of the requirements contained in this ordinance. Local agencies may collaborate with water purveyors to define each entity's specific responsibilities relating to this ordinance.

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

**§ 492.4. Water Efficient Landscape Worksheet.**

(a) A project applicant shall complete the Water Efficient Landscape Worksheet in Appendix B which contains information on the plant factor, irrigation method, irrigation efficiency, and area associated with each hydrozone. Calculations are then made to show that the evapotranspiration adjustment factor (ETAF) for the landscape project does not exceed a factor of 0.55 for residential areas and 0.45 for non-residential areas, exclusive of Special Landscape Areas. The ETAF for a landscape project is based on the plant factors and irrigation methods selected. The Maximum Applied Water Allowance is calculated based on the maximum ETAF allowed (0.55 for residential areas and 0.45 for non-residential areas) and expressed as annual gallons required. The Estimated Total Water Use (ETWU) is calculated based on the plants used and irrigation method selected for the landscape design. ETWU must be below the MAWA. ~~two sections (see sample worksheet in Appendix B):~~

- ~~(1) a hydrozone information table (see Appendix B, Section A) for the landscape project; and~~
- ~~(2) a water budget calculation (see Appendix B, Section B) for the landscape project. For the calculation of the~~

~~(1) In calculating the Maximum Applied Water Allowance and Estimated Total Water Use, a project applicant shall use the ETo values from the Reference Evapotranspiration Table in Appendix A. For geographic areas not covered in Appendix A, use data from other cities located nearby in the same reference evapotranspiration zone, as found in the CIMIS Reference Evapotranspiration Zones Map, Department of Water Resources, 1999.~~

(b) Water budget calculations shall adhere to the following requirements:

(1) The plant factor used shall be from WUCOLS or from horticultural researchers with academic institutions or professional associations as approved by the California Department of Water Resources (DWR). The plant factor ranges from 0 to 0.1 for very low water using plants, 0.1 to 0.3 for low water use plants, from 0.4 to 0.6 for moderate water use plants, and from 0.7 to 1.0 for high water use plants.

(2) All water features shall be included in the high water use hydrozone and temporarily irrigated areas shall be included in the low water use hydrozone.

(3) All Special Landscape Areas shall be identified and their water use calculated as shown in Appendix B described below.

(4) ETAF for new and existing (non-rehabilitated) Special Landscape Areas shall not exceed 1.0.

~~(e) Maximum Applied Water Allowance~~

~~The Maximum Applied Water Allowance shall be calculated using the equation;~~

$$MAWA = (ETo) (0.62) [(0.7 \times LA) + (0.3 \times SLA)]$$

~~The example calculations below are hypothetical to demonstrate proper use of the equations and do not represent an existing and/or planned landscape project. The ETo values used in these calculations are from the Reference Evapotranspiration Table in Appendix A, for planning purposes only. For actual irrigation scheduling, automatic irrigation controllers are required and shall use current reference~~

evapotranspiration data, such as from the California Irrigation Management Information System (CIMIS), other equivalent data, or soil moisture sensor data.

(1) Example MAWA calculation: a hypothetical landscape project in Fresno, CA with an irrigated landscape area of 50,000 square feet without any Special Landscape Area (SLA=0, no edible plants or recreational areas or use of recycled water). To calculate MAWA, the annual reference evapotranspiration value for Fresno is 51.1 inches as listed in the Reference Evapotranspiration Table in Appendix A.

$$MAWA = (ET_o) (0.62) [(0.7 \times LA) + (0.3 \times SLA)]$$

MAWA = Maximum Applied Water Allowance (gallons per year)

ET<sub>o</sub> = Reference Evapotranspiration (inches per year)

0.62 = Conversion Factor (to gallons)

0.7 = ET Adjustment Factor (ETAf)

LA = Landscape Area including SLA (square feet)

0.3 = Additional Water Allowance for SLA

SLA = Special Landscape Area (square feet)

$$MAWA = (51.1 \text{ inches}) (0.62) [(0.7 \times 50,000 \text{ square feet}) + (0.3 \times 0)]$$

$$= 1,108,870 \text{ gallons per year}$$

To convert from gallons per year to hundred cubic feet per year:

$$= 1,108,870 / 748 = 1,482 \text{ hundred cubic feet per year}$$

(100 cubic feet = 748 gallons)

(2) In this next hypothetical example, the landscape project in Fresno, CA has the same ET<sub>o</sub> value of 51.1 inches and a total landscape area of 50,000 square feet. Within the 50,000 square foot project, there is now a 2,000 square foot area planted with edible plants. This 2,000 square foot area is considered to be a Special Landscape Area.

$$MAWA = (ET_o) (0.62) [(0.7 \times LA) + (0.3 \times SLA)]$$

$$MAWA = (51.1 \text{ inches}) (0.62) [(0.7 \times 50,000 \text{ square feet}) + (0.3 \times 2,000 \text{ square feet})]$$

$$= 31.68 \times [35,000 + 600] \text{ gallons per year}$$

$$= 31.68 \times 35,600 \text{ gallons per year}$$

$$= 1,127,808 \text{ gallons per year or } 1,508 \text{ hundred cubic feet per year}$$

(d) Estimated Total Water Use.

The Estimated Total Water Use shall be calculated using the equation below. The sum of the Estimated Total Water Use calculated for all hydrozones shall not exceed MAWA.

$$ETWU = (ET_o)(0.62) \left( \frac{PF \times HA}{IE} + SLA \right)$$

Where:

ETWU = Estimated Total Water Use per year (gallons)

ET<sub>o</sub> = Reference Evapotranspiration (inches)

PF = Plant Factor from WUCOLS (see Section 491)

HA = Hydrozone Area [high, medium, and low water use areas] (square feet)

SLA = Special Landscape Area (square feet)

0.62 = Conversion Factor

IE = Irrigation Efficiency (minimum 0.71)

(1) Example ETWU calculation: landscape area is 50,000 square feet; plant water use type, plant factor, and hydrozone area are shown in the table below. The ET<sub>o</sub> value is 51.1 inches per year.

There are no Special Landscape Areas (recreational area, area permanently and solely dedicated to edible plants, and area irrigated with recycled water) in this example.

Hydrozone	Plant Water Use Type(s)	Plant Factor (PF)*	Hydrozone Area (HA) (square feet)	PF x HA (square feet)
1	High	0.8	7,000	5,600
2	High	0.7	10,000	7,000
3	Medium	0.5	16,000	8,000
4	Low	0.3	7,000	2,100
5	Low	0.2	10,000	2,000
			Sum	24,700

\*Plant Factor from WUCOLS

$$ETWU = (51.1)(0.62) \left( \frac{24,700}{0.71} + 0 \right)$$

$$= 1,102,116 \text{ gallons per year}$$

Compare ETWU with MAWA: For this example MAWA = (51.1) (0.62) [(0.7 x 50,000) + (0.3 x 0)] = 1,108,870 gallons per year. The ETWU (1,102,116 gallons per year) is less than MAWA (1,108,870 gallons per year). In this example, the water budget complies with the MAWA.

(2) Example ETWU calculation: total landscape area is 50,000 square feet, 2,000 square feet of which is planted with edible plants. The edible plant area is considered a Special Landscape Area (SLA). The reference evapotranspiration value is 51.1 inches per year. The plant type, plant factor, and hydrozone area are shown in the table below.

Hydrozone	Plant Water Use Type(s)	Plant Factor (PF)*	Hydrozone Area (HA) (square feet)	PF x HA (square feet)
1	High	0.8	7,000	5,600
2	High	0.7	9,000	6,300
3	Medium	0.5	15,000	7,500
4	Low	0.3	7,000	2,100
5	Low	0.2	10,000	2,000
			Sum	23,500
6	SLA	-1.0	2,000	2,000

\*Plant Factor from WUCOLS

$$ETWU = (51.1)(0.62) \left( \frac{23,500}{0.71} + 2,000 \right)$$

$$= (31.68) (33,099 + 2,000)$$

$$= 1,111,936 \text{ gallons per year}$$

Compare ETWU with MAWA. For this example:

$$MAWA = (51.1) (0.62) [(0.7 \times 50,000) + (0.3 \times 2,000)]$$

$$= 31.68 \times [35,000 + 600]$$

$$= 31.68 \times 35,600$$

=1,127,808 gallons per year

~~The ETWU (1,111,936 gallons per year) is less than MAWA (1,127,808 gallons per year). For this example, the water budget complies with the MAWA.~~

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

#### **§ 492.5. Soil Management Report.**

(a) In order to reduce runoff and encourage healthy plant growth, a soil management report shall be completed by the project applicant, or his/her designee, as follows:

(1) Submit soil samples to a laboratory for analysis and recommendations.

(A) Soil sampling shall be conducted in accordance with laboratory protocol, including protocols regarding adequate sampling depth for the intended plants.

(B) The soil analysis ~~may~~shall include:

1. soil texture;
2. infiltration rate determined by laboratory test or soil texture infiltration rate table;
3. pH;
4. total soluble salts;
5. sodium;
6. percent organic matter; and
7. recommendations.

(C) In projects with multiple landscape installations (i.e. production home developments) a soil sampling rate of 1 in 7 lots or approximately 15% will satisfy this requirement. Large landscape projects shall sample at a rate equivalent to 1 in 7 lots.

(2) The project applicant, or his/her designee, shall comply with one of the following:

(A) If significant mass grading is not planned, the soil analysis report shall be submitted to the local agency as part of the Landscape Documentation Package; or

(B) If significant mass grading is planned, the soil analysis report shall be submitted to the local agency as part of the Certificate of Completion.

(3) The soil analysis report shall be made available, in a timely manner, to the professionals preparing the landscape design plans and irrigation design plans to make any necessary adjustments to the design plans.

(4) The project applicant, or his/her designee, shall submit documentation verifying implementation of soil analysis report recommendations to the local agency with Certificate of Completion.

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

#### **§ 492.6. Landscape Design Plan.**

(a) For the efficient use of water, a landscape shall be carefully designed and planned for the intended function of the project. A landscape design plan meeting the following design criteria shall be submitted as part of the Landscape Documentation Package.

(1) Plant Material

(A) Any plant may be selected for the landscape, providing the Estimated Total Water Use in the landscape area does not exceed the Maximum Applied Water Allowance. ~~To encourage the efficient use of water, the following is highly recommended~~ Methods to achieve water efficiency shall include one or more of the following:

1. protection and preservation of native species and natural vegetation;
2. selection of water-conserving plant, tree and turf species, especially local native plants;
3. selection of plants based on local climate suitability, disease and pest resistance;
4. selection of trees based on applicable local tree ordinances or tree shading guidelines, and size at maturity as appropriate for the planting area; and
5. selection of plants from local and regional landscape program plant lists.
6. selection of plants from local Fuel Modification Plan Guidelines.

(B) Each hydrozone shall have plant materials with similar water use, with the exception of hydrozones with plants of mixed water use, as specified in Section 492.7(a)(2)(D).

(C) Plants shall be selected and planted appropriately based upon their adaptability to the climatic, geologic, and topographical conditions of the project site. ~~To encourage the efficient use of water, the following is highly recommended~~ Methods to achieve water efficiency shall include one or more of the following:

1. use the Sunset Western Climate Zone System which takes into account temperature, humidity, elevation, terrain, latitude, and varying degrees of continental and marine influence on local climate;
2. recognize the horticultural attributes of plants (i.e., mature plant size, invasive surface roots) to minimize damage to property or infrastructure [e.g., buildings, sidewalks, power lines]; allow for adequate soil volume for healthy root growth; and
3. consider the solar orientation for plant placement to maximize summer shade and winter solar gain.

(D) Turf is not allowed on slopes greater than 25% where the toe of the slope is adjacent to an impermeable hardscape and where 25% means 1 foot of vertical elevation change for every 4 feet of horizontal length (rise divided by run x 100 = slope percent).

(E) High water use plants, characterized by a plant factor of 0.7 to 1.0, are prohibited in street medians.

~~(F)~~ (F) A landscape design plan for projects in fire-prone areas shall address fire safety and prevention. A defensible space or zone around a building or structure is required per Public Resources Code Section 4291(a) and (b). Avoid fire-prone plant materials and highly flammable mulches. Refer to the local Fuel Modification Plan guidelines.

~~(G)~~ (G) The use of invasive ~~and/or noxious~~ plant species, such as those listed by the California Invasive Plant Council, is strongly discouraged.

~~(H)~~ (H) The architectural guidelines of a common interest development, which include community apartment projects, condominiums, planned developments, and stock cooperatives, shall not prohibit or include conditions that have the effect of prohibiting the use of low-water use plants as a group.

## (2) Water Features

(A) Recirculating water systems shall be used for water features.

(B) Where available, recycled water shall be used as a source for decorative water features.

(C) Surface area of a water feature shall be included in the high water use hydrozone area of the water budget calculation.

(D) Pool and spa covers are highly recommended.

## (3) Soil Preparation, Mulch and Amendments

(A) Prior to the planting of any materials, compacted soils shall be transformed to a friable condition. On engineered slopes, only amended planting holes need meet this requirement.

(B) Soil amendments shall be incorporated according to recommendations of the soil report and what is appropriate for the plants selected (see Section 492.5).

(C) For landscape installations, compost at a rate of a minimum of four cubic yards per 1,000 square feet of permeable area shall be incorporated to a depth of six inches into the soil. Soils with greater than 6% organic matter in the top 6 inches of soil are exempt from adding compost and tilling.

(D) (A) A minimum ~~two~~three inch (2<sup>3</sup>" ) layer of mulch shall be applied on all exposed soil surfaces of planting areas except in turf areas, creeping or rooting groundcovers, or direct seeding applications where mulch is contraindicated. To provide habitat for beneficial insects and other wildlife, up to 5 % of the landscape area may be left without mulch. Designated insect habitat must be included in the landscape design plan as such.

(E) (B) Stabilizing mulching products shall be used on slopes that meet current engineering standards.

(F) (C) The mulching portion of the seed/mulch slurry in hydro-seeded applications shall meet the mulching requirement.

(G) Organic mulch materials made from recycled or post-consumer shall take precedence over inorganic materials or virgin forest products unless the recycled post-consumer organic products are not locally available. Organic mulches are not required where prohibited by local Fuel Modification Plan Guidelines or other applicable local ordinances.

~~(D) Soil amendments shall be incorporated according to recommendations of the soil report and what is appropriate for the plants selected (see Section 492.5).~~

(b) The landscape design plan, at a minimum, shall:

- (1) delineate and label each hydrozone by number, letter, or other method;
- (2) identify each hydrozone as low, moderate, high water, or mixed water use. Temporarily irrigated areas of the landscape shall be included in the low water use hydrozone for the water budget calculation;
- (3) identify recreational areas;
- (4) identify areas permanently and solely dedicated to edible plants;
- (5) identify areas irrigated with recycled water;
- (6) identify type of mulch and application depth;
- (7) identify soil amendments, type, and quantity;
- (8) identify type and surface area of water features;
- (9) identify hardscapes (pervious and non-pervious);
- (10) identify location, ~~and~~ installation details, and 24-hour retention or infiltration capacity of any applicable stormwater best management practices that encourage on-site retention and infiltration of stormwater. Project applicants shall refer to the local agency or regional Water Quality Control Board for information on any applicable stormwater technical requirements. Stormwater best management practices are encouraged in the landscape design plan and examples include, ~~but are not limited to:~~ are provided in Section 492.16.

~~(A) infiltration beds, swales, and basins that allow water to collect and soak into the ground;~~

~~(B) constructed wetlands and retention ponds that retain water, handle excess flow, and filter pollutants; and~~

~~(C) pervious or porous surfaces (e.g., permeable pavers or blocks, pervious or porous concrete, etc.) that minimize runoff.~~

- (11) identify any applicable rain harvesting or catchment technologies ~~(e.g., rain gardens, eisterns, etc.)~~ as discussed in Section 492.16 and their 24-hour retention or infiltration capacity;
- (12) identify any applicable graywater discharge piping, system components and area(s) of distribution;

(13) (12) contain the following statement: "I have complied with the criteria of the ordinance and applied them for the efficient use of water in the landscape design plan"; and  
 (14) (13) bear the signature of a licensed landscape architect, licensed landscape contractor, or any other person authorized to design a landscape. (See Sections 5500.1, 5615, 5641, 5641.1, 5641.2, 5641.3, 5641.4, 5641.5, 5641.6, 6701, 7027.5 of the Business and Professions Code, Section 832.27 of Title 16 of the California Code of Regulations, and Section 6721 of the Food and Agriculture Code.)

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code; and Section 1351, Civil Code.

#### § 492.7. Irrigation Design Plan.

(a) This section applies to landscaped areas requiring permanent irrigation, not areas that require temporary irrigation solely for the plant establishment period. For the efficient use of water, an irrigation system shall meet all the requirements listed in this section and the manufacturers' recommendations. The irrigation system and its related components shall be planned and designed to allow for proper installation, management, and maintenance. An irrigation design plan meeting the following design criteria shall be submitted as part of the Landscape Documentation Package.

##### (1) System

(A) Dedicated landscape water meters, defined as either a dedicated water service meter or private submeter, are highly recommended on landscape areas smaller than 5,000 square feet to facilitate water management. shall be installed for all non-residential irrigated landscapes of 1,000 sq. ft. but not more than 5,000 sq.ft. (the level at which Water Code 535 applies) and residential irrigated landscapes of 5,000 sq. ft. or greater. A landscape water meter may be either:

1. a customer service meter dedicated to landscape use provided by the local water purveyor; or
2. a privately owned meter or submeter.

(B) Automatic irrigation controllers utilizing either evapotranspiration or soil moisture sensor data utilizing non-volatile memory shall be required for irrigation scheduling in all irrigation systems.

(C) If the water pressure is below or exceeds the recommended pressure of the specified irrigation devices, the installation of a pressure regulating device is required ~~The irrigation system shall be designed~~ to ensure that the dynamic pressure at each emission device is within the manufacturer's recommended pressure range for optimal performance.

1. If the static pressure is above or below the required dynamic pressure of the irrigation system, pressure-regulating devices such as inline pressure regulators, booster pumps, or other devices shall be installed to meet the required dynamic pressure of the irrigation system.
2. Static water pressure, dynamic or operating pressure, and flow reading of the water supply shall be measured at the point of connection. These pressure and flow measurements shall be conducted at the design stage. If the measurements are not available at the design stage, the measurements shall be conducted at installation.

(D) Sensors (rain, freeze, wind, etc.), either integral or auxiliary, that suspend or alter irrigation operation during unfavorable weather conditions shall be required on all irrigation systems, as appropriate for local climatic conditions. Irrigation should be avoided during windy or freezing weather or during rain.

(E) Manual shut-off valves (such as a gate valve, ball valve, or butterfly valve) shall be required, as close as possible to the point of connection of the water supply, to minimize water loss in case of an emergency (such as a main line break) or routine repair.

(F) Backflow prevention devices shall be required to protect the water supply from contamination by the irrigation system. A project applicant shall refer to the applicable local agency code (i.e., public health) for additional backflow prevention requirements.

(G) ~~High flow~~ sensors that detect ~~and report~~ high flow conditions created by system damage or malfunction are ~~recommended~~ required for all on non-residential landscapes and residential landscapes of 5000 sq. ft. or larger.

(H) Master shut-off valves are required on all projects except landscapes that make use of technologies that allow for the individual control of sprinklers that are individually pressurized in a system equipped with low pressure shut down features.

(I) ~~(H)~~ The irrigation system shall be designed to prevent runoff, low head drainage, overspray, or other similar conditions where irrigation water flows onto non-targeted areas, such as adjacent property, non-irrigated areas, hardscapes, roadways, or structures.

(J) ~~(I)~~ Relevant information from the soil management plan, such as soil type and infiltration rate, shall be utilized when designing irrigation systems.

(K) ~~(J)~~ The design of the irrigation system shall conform to the hydrozones of the landscape design plan.

(L) ~~(K)~~ The irrigation system must be designed and installed to meet, at a minimum, the irrigation efficiency criteria as described in Section 492.4 regarding the Maximum Applied Water Allowance.

(M) All irrigation emission devices must meet the requirements set in the American National Standards Institute (ANSI) standard, American Society of Agricultural and Biological Engineers'/International Code Council's (ASABE/ICC) 802-2014 "Landscape Irrigation Sprinkler and Emitter Standard. All sprinkler heads installed in the landscape must document a distribution uniformity low quarter of 0.65 or higher using the protocol defined in ASABE/ICC 802-2014.

(N) ~~(L)~~ It is highly recommended that the project applicant or local agency inquire with the local water purveyor about peak water operating demands (on the water supply system) or water restrictions that may impact the effectiveness of the irrigation system.

(O) ~~(M)~~ In mulched planting areas, the use of low volume irrigation is required to maximize water infiltration into the root zone.

(P) ~~(N)~~ Sprinkler heads and other emission devices shall have matched precipitation rates, unless otherwise directed by the manufacturer's recommendations.

(Q) ~~(O)~~ Head to head coverage is recommended. However, sprinkler spacing shall be designed to achieve the highest possible distribution uniformity using the manufacturer's recommendations.

(R) ~~(P)~~ Swing joints or other riser-protection components are required on all risers subject to damage that are adjacent to hardscapes or in high traffic areas of turfgrass.

(S) ~~(Q)~~ Check valves or anti-drain valves are required for all irrigation systems on all sprinkler heads where low point drainage could occur.

~~(T) (R) Narrow or irregularly shaped areas, including turf, Areas less than ten (10) feet in width in any direction shall be irrigated with subsurface irrigation or low volume irrigation system. other means that produces no runoff or overspray.~~

(U) ~~(S)~~ Overhead irrigation shall not be permitted within 24 inches of any non-permeable surface. Allowable irrigation within the setback from non-permeable surfaces may include drip, drip line, or other low flow non-spray technology. The setback area may be planted or unplanted. The surfacing of the setback may be mulch, gravel, or other porous material. These restrictions may be modified if:

1. the landscape area is adjacent to permeable surfacing and no runoff occurs;
2. the adjacent non-permeable surfaces are designed and constructed to drain entirely to landscaping; or
3. the irrigation designer specifies an alternative design or technology, as part of the Landscape Documentation Package and clearly demonstrates strict adherence to irrigation system design criteria in Section 492.7 (a)(1)(IH). Prevention of overspray and runoff must be confirmed during the irrigation audit.

**(V) (F)** Slopes greater than 25% shall not be irrigated with an irrigation system with a precipitation application rate exceeding 0.75 inches per hour. This restriction may be modified if the landscape designer specifies an alternative design or technology, as part of the Landscape Documentation Package, and clearly demonstrates no runoff or erosion will occur. Prevention of runoff and erosion must be confirmed during the irrigation audit.

**(2) Hydrozone**

**(A)** Each valve shall irrigate a hydrozone with similar site, slope, sun exposure, soil conditions, and plant materials with similar water use.

**(B)** Sprinkler heads and other emission devices shall be selected based on what is appropriate for the plant type within that hydrozone.

**(C)** Where feasible, trees shall be placed on separate valves from shrubs, groundcovers, and turf to facilitate the appropriate irrigation of trees. The mature size and extent of the root zone shall be considered when designing irrigation for the tree.

**(D)** Individual hydrozones that mix plants of moderate and low water use, or moderate and high water use, may be allowed if:

1. plant factor calculation is based on the proportions of the respective plant water uses and their plant factor; or
2. the plant factor of the higher water using plant is used for calculations.

**(E)** Individual hydrozones that mix high and low water use plants shall not be permitted.

**(F)** On the landscape design plan and irrigation design plan, hydrozone areas shall be designated by number, letter, or other designation. On the irrigation design plan, designate the areas irrigated by each valve, and assign a number to each valve. Use this valve number in the Hydrozone Information Table (see Appendix B Section A). This table can also assist with the irrigation audit and programming the controller.

**(b) The irrigation design plan, at a minimum, shall contain:**

- (1) location and size of separate water meters for landscape;
- (2) location, type and size of all components of the irrigation system, including controllers, main and lateral lines, valves, sprinkler heads, moisture sensing devices, rain switches, quick couplers, pressure regulators, and backflow prevention devices;
- (3) static water pressure at the point of connection to the public water supply;
- (4) flow rate (gallons per minute), application rate (inches per hour), and design operating pressure (pressure per square inch) for each station;
- (5) recycled water irrigation systems as specified in Section 492.14;
- (6) the following statement: "I have complied with the criteria of the ordinance and applied them accordingly for the efficient use of water in the irrigation design plan"; and
- (7) the signature of a licensed landscape architect, certified irrigation designer, licensed landscape contractor, or any other person authorized to design an irrigation system. (See Sections 5500.1, 5615, 5641, 5641.1, 5641.2, 5641.3, 5641.4, 5641.5, 5641.6, 6701, 7027.5 of the Business and Professions Code, Section 832.27 of Title 16 of the California Code of Regulations, and Section 6721 of the Food and Agricultural Code.)

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

**§ 492.9. Certificate of Completion.**

(a) The Certificate of Completion (see Appendix C for a sample certificate) shall include the following six (6) elements:

(1) project information sheet that contains:

- (A) date;
- (B) project name;
- (C) project applicant name, telephone, and mailing address;
- (D) project address and location; and
- (E) property owner name, telephone, and mailing address;

(2) certification by either the signer of the landscape design plan, the signer of the irrigation design plan, or the licensed landscape contractor that the landscape project has been installed per the approved Landscape Documentation Package;

(A) where there have been significant changes made in the field during construction, these “as-built” or record drawings shall be included with the certification;

(B) A diagram of the irrigation plan showing hydrozones shall be kept with the irrigation controller for subsequent management purposes.

(3) irrigation scheduling parameters used to set the controller (see Section 492.10);

(4) landscape and irrigation maintenance schedule (see Section 492.11);

(5) irrigation audit report (see Section 492.12); and

(6) soil analysis report, if not submitted with Landscape Documentation Package, and documentation verifying implementation of soil report recommendations (see Section 492.5).

(b) The project applicant shall:

(1) submit the signed Certificate of Completion to the local agency for review;

(2) ensure that copies of the approved Certificate of Completion are submitted to the local water purveyor and property owner or his or her designee.

(c) The local agency shall:

(1) receive the signed Certificate of Completion from the project applicant;

(2) approve or deny the Certificate of Completion. If the Certificate of Completion is denied, the local agency shall provide information to the project applicant regarding reapplication, appeal, or other assistance.

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

**§ 492.11. Landscape and Irrigation Maintenance Schedule.**

(a) Landscapes shall be maintained to ensure water use efficiency. A regular maintenance schedule shall be submitted with the Certificate of Completion.

(b) A regular maintenance schedule shall include, but not be limited to, routine inspection; auditing, adjustment and repair of the irrigation system and its components; aerating and dethatching turf areas; topdressing with compost, replenishing mulch; fertilizing; pruning; weeding in all landscape areas, and removing and obstructions to emission devices. Operation of the irrigation system outside the normal watering window is allowed for auditing and system maintenance.

(c) Repair of all irrigation equipment shall be done with the originally installed components or their equivalents or with components with greater efficiency.

(d) A project applicant is encouraged to implement established landscape industry sustainable Best Practices or environmentally friendly practices for overall all landscape maintenance activities.

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

**§ 492.12. Irrigation Audit, Irrigation Survey, and Irrigation Water Use Analysis.**

(a) All landscape irrigation audits shall be conducted by a local agency landscape irrigation auditor or a third party certified landscape irrigation auditor. Landscape audits shall not be conducted by the person who designed the landscape or installed the landscape.

(b) In large projects or projects with multiple landscape installations (i.e. production home developments) an auditing rate of 1 in 7 lots or approximately 15% will satisfy this requirement.

~~(b)~~(c) For new construction and rehabilitated landscape projects installed after January 1, 2010~~December 1, 2015~~, as described in Section 490.1:

(1) the project applicant shall submit an irrigation audit report with the Certificate of Completion to the local agency that may include, but is not limited to: inspection, system tune-up, system test with distribution uniformity, reporting overspray or run off that causes overland flow, and preparation of an irrigation schedule, including configuring irrigation controllers with application rate, soil types, plant factors, slope, exposure and any other factors necessary for accurate programming;

(2) the local agency shall administer programs that may include, but not be limited to, irrigation water use analysis, irrigation audits, and irrigation surveys for compliance with the Maximum Applied Water Allowance.

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

#### **§ 492.13. Irrigation Efficiency.**

(a) For the purpose of determining ~~Maximum Applied Water Allowance~~Estimated Total Water Use, average irrigation efficiency is assumed to be ~~0.750-71~~ for overhead spray devices and 0.81 for drip system devices. ~~Irrigation systems shall be designed, maintained, and managed to meet or exceed an average landscape irrigation efficiency of 0.71.~~

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

#### **§ 492.14. Recycled Water.**

(a) The installation of recycled water irrigation systems shall allow for the current and future use of recycled water, ~~unless a written exemption has been granted as described in Section 492.14(b).~~

~~(b) Irrigation systems and decorative water features shall use recycled water unless a written exemption has been granted by the local water purveyor stating that recycled water meeting all public health codes and standards is not available and will not be available for the foreseeable future.~~

~~(c)~~ (b) All recycled water irrigation systems shall be designed and operated in accordance with all applicable local and State laws.

~~(d)~~ (c) Landscapes using recycled water are considered Special Landscape Areas. The ET Adjustment Factor for new and existing (non-rehabilitated) Special Landscape Areas shall not exceed 1.0.

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

#### **§ 492.15. Graywater Systems.**

(a) Graywater systems promote the efficient use of water and are encouraged to assist in on-site landscape irrigation. All graywater systems shall conform to the California Plumbing Code (Title 24, Part 5, Chapter 16) and any applicable local ordinance standards. Refer to § 490.1 (d) for the applicability of this ordinance to landscape areas less than 2,500 square feet with the Estimated Total Water Use met entirely by graywater.

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

#### **§ 492.165. Stormwater Management and Rainwater Retention.**

(a) Stormwater management practices minimize runoff and increase infiltration which recharges groundwater and improves water quality. Implementing stormwater best management practices into the landscape and grading design plans to minimize runoff and to increase on-site rainwater retention and infiltration are encouraged.

(b) Project applicants shall refer to the local agency or Regional Water Quality Control Board for information on any applicable stormwater ~~technical requirements ordinances and stormwater management plans.~~

(c) All planted landscape areas are required to have friable soil to maximize water retention and infiltration. Refer to § 492.6(a)(3).

(d) It is strongly recommended that landscape areas be designed for capture and infiltration capacity that is sufficient to prevent runoff from impervious surfaces (i.e. roof and paved areas) from either: the one inch, 24-hour rain event or (2) the 85<sup>th</sup> percentile, 24-hour rain event, and/or additional capacity as required by any applicable local, regional, state or federal regulation.

(e) It is recommended that storm water projects incorporate any of the following elements to improve on-site storm water and dry weather runoff capture and use:

- Grade impervious surfaces, such as driveways, during construction to drain to vegetated areas.
- Minimize the area of impervious surfaces such as paved areas, roof and concrete driveways.
- Incorporate pervious or porous surfaces (e.g., gravel, permeable pavers or blocks, pervious or porous concrete) that minimize runoff.
- Direct runoff from paved surfaces and roof areas into planting beds or landscaped areas to maximize site water capture and reuse.
- Incorporate rain gardens, cisterns, and other rain harvesting or catchment systems.
- Incorporate infiltration beds, swales, basins and drywells to capture storm water and dry weather runoff and increase percolation into the soil.
- Consider constructed wetlands and ponds that retain water, equalize excess flow, and filter pollutants.

~~(e) Rain gardens, cisterns, and other landscapes features and practices that increase rainwater capture and create opportunities for infiltration and/or onsite storage are recommended.~~

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

#### **§ 492.176. Public Education.**

(a) Publications. Education is a critical component to promote the efficient use of water in landscapes. The use of appropriate principles of design, installation, management and maintenance that save water is encouraged in the community.

(1) A local agency or water supplier/purveyor shall provide information to owners of permitted renovations and new, single-family residential homes regarding the design, installation, management, and maintenance of water efficient landscapes based on a water budget.

(b) Model Homes. All model homes that are landscaped shall use signs and written information to demonstrate the principles of water efficient landscapes described in this ordinance.

(1) Signs shall be used to identify the model as an example of a water efficient landscape featuring elements such as hydrozones, irrigation equipment, and others that contribute to the overall water efficient theme. Signage shall include information about the site water use as designed per the local ordinance; specify who designed and installed the water efficient landscape; and demonstrate low water use approaches to landscaping such as using native plants, graywater systems, and rainwater catchment systems.

(2) Information shall be provided about designing, installing, managing, and maintaining water efficient landscapes.

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

**§ 492.187. Environmental Review.**

(a) The local agency must comply with the California Environmental Quality Act (CEQA), as appropriate.

Note: Authority cited: Section 21082, Public Resources Code. Reference: Sections 21080 and 21082, Public Resources Code.

**§ 493. Provisions for Existing Landscapes.**

(a) A local agency may by mutual agreement designate another agency, such as a water purveyor, to implement some or all of the requirements contained in this ordinance. Local agencies may collaborate with water purveyors to define each entity's specific responsibilities relating to this ordinance.

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

**§ 493.1. Irrigation Audit, Irrigation Survey, and Irrigation Water Use Analysis.**

(a) This section, 493.1, shall apply to all existing landscapes that were installed before January 1, 2010 December 1, 2015 and are over one acre in size.

(1) For all landscapes in 493.1(a) that have a water meter, the local agency shall administer programs that may include, but not be limited to, irrigation water use analyses, irrigation surveys, and irrigation audits to evaluate water use and provide recommendations as necessary to reduce landscape water use to a level that does not exceed the Maximum Applied Water Allowance for existing landscapes. The Maximum Applied Water Allowance for existing landscapes shall be calculated as:  $MAWA = (0.8) (ET_o)(LA)(0.62)$ .

(2) For all landscapes in 493.1(a), that do not have a meter, the local agency shall administer programs that may include, but not be limited to, irrigation surveys and irrigation audits to evaluate water use and provide recommendations as necessary in order to prevent water waste.

(b) All landscape irrigation audits shall be conducted by a certified landscape irrigation auditor.

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

**§ 494. Effective Precipitation.**

(a) A local agency may consider Effective Precipitation (25% of annual precipitation) in tracking water use and may use the following equation to calculate Maximum Applied Water Allowance:

$MAWA = (ET_o - Eppt) (0.62) [(0.70.55 \times LA) + (0.30.45 \times SLA)]$  for residential areas.

$MAWA = (ET_o - EPPT) (0.62) [(0.45 \times LA) + (0.55 \times SLA)]$  for non-residential areas.

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

**§ 495. Reporting.**

(a) Local agencies shall report on implementation and enforcement by December 31, 2015. Local agencies responsible for administering individual ordinances shall report on their updated ordinance, while those agencies developing a regional ordinance shall report on their existing ordinance. Those agencies crafting a regional ordinance shall also report on their new ordinance by March 1, 2016. Subsequently, reporting for all agencies will be due by January 31<sup>st</sup> of each year. Reports shall be submitted to the Department of Water Resources.

(b) Local agencies are to address the following:

(1) State whether you are adopting a single agency ordinance or a regional agency alliance ordinance, and the date of adoption or anticipated date of adoption.

(2) Define the reporting period. The reporting period shall commence on December 1, 2015 and the end on December 28, 2015. For local agencies crafting regional ordinances with other agencies, there shall be an additional reporting period commencing on February 1, 2016 and ending on February 28, 2016. In subsequent years, all local agency reporting will be for the calendar year.

(3) State if using a locally modified Water Efficient Landscape Ordinance (WELo) or the MWELo. If using a locally modified WELo, how is it different than MWELo, is it at least as efficient as MWELo, and are there any exemptions specified?

(4) State the entity responsible for implementing the ordinance.

(5) State number and types of projects subject to the ordinance during the specified reporting period.

(6) State the total area (in square feet or acres) subject to the ordinance over the reporting period, if available.

(7) Provide the number of new housing starts, new commercial projects, and landscape retrofits during the reporting period.

(8) Describe the procedure for review of projects subject to the ordinance.

(9) Describe actions taken to verify compliance. Is a plan check performed; if so, by what entity? Is a site inspection performed; if so, by what entity? Is a post-installation audit required; if so, by whom?

(10) Describe enforcement measures.

(11) Explain challenges to implementing and enforcing the ordinance.

(12) Describe educational and other needs to properly apply the ordinance.

Note: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

Appendix A - Reference Evapotranspiration (ET <sub>o</sub> ) Table*													
County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ET <sub>o</sub>
<b>ALAMEDA</b>													
Fremont	1.5	1.9	3.4	4.7	5.4	6.3	6.7	6.0	4.5	3.4	1.8	1.5	47.0
Livermore	1.2	1.5	2.9	4.4	5.9	6.6	7.4	6.4	5.3	3.2	1.5	0.9	47.2
Oakland	1.5	1.5	2.8	3.9	5.1	5.3	6.0	5.5	4.8	3.1	1.4	0.9	41.8
Oakland Foothills	1.1	1.4	2.7	3.7	5.1	6.4	5.8	4.9	3.6	2.6	1.4	1.0	39.6
Pleasanton	0.8	1.5	2.9	4.4	5.6	6.7	7.4	6.4	4.7	3.3	1.5	1.0	46.2
Union City	1.4	1.8	3.1	4.2	5.4	5.9	6.4	5.7	4.4	3.1	1.5	1.2	44.2
<b>ALPINE</b>													
Markleeville	0.7	0.9	2.0	3.5	5.0	6.1	7.3	6.4	4.4	2.5	1.2	0.5	40.6
<b>AMADOR</b>													
Jackson	1.2	1.5	2.8	4.4	6.0	7.2	7.9	7.2	5.3	3.2	1.4	0.9	48.9
Shanandoah Valley	1.0	1.7	2.9	4.4	5.6	6.8	7.9	7.1	5.2	3.6	1.7	1.0	48.8
<b>BUTTE</b>													
Chico	1.2	1.8	2.9	4.7	6.1	7.4	8.5	7.3	5.4	3.7	1.7	1.0	51.7
Durham	1.1	1.8	3.2	5.0	6.5	7.4	7.8	6.9	5.3	3.6	1.7	1.0	51.1
Gridley	1.2	1.8	3.0	4.7	6.1	7.7	8.5	7.1	5.4	3.7	1.7	1.0	51.9
Oroville	1.2	1.8	2.8	4.7	6.1	7.6	8.5	7.3	5.3	3.7	1.7	1.0	51.5
<b>CALAVERAS</b>													
San Andreas	1.2	1.5	2.8	4.4	6.0	7.3	7.9	7.0	5.3	3.2	1.4	0.7	48.8
<b>COLUSA</b>													
Colusa	1.0	1.7	3.4	5.0	6.4	7.8	8.3	7.2	5.4	3.8	1.8	1.1	52.8
Williams	1.2	1.7	2.9	4.5	6.1	7.2	8.5	7.3	5.3	3.4	1.6	1.0	50.8
<b>CONTRA COSTA</b>													
Benicia	1.3	1.4	2.7	3.8	4.9	5.0	6.4	5.5	4.4	2.9	1.2	0.7	40.3
Brentwood	1.0	1.5	2.9	4.5	5.1	7.1	7.9	6.7	5.2	3.2	1.4	0.7	48.3
Concord	1.1	1.4	2.4	4.0	5.1	5.9	7.0	6.0	4.8	3.2	1.3	0.7	43.4
Courtland	0.9	1.5	2.9	4.4	6.1	6.9	7.9	6.7	5.3	3.2	1.4	0.7	48.0
Martinez	1.2	1.4	2.4	3.9	5.3	5.6	6.7	5.6	4.7	3.1	1.2	0.7	41.8
Moraga	1.2	1.5	3.4	4.2	5.5	6.1	6.7	5.9	4.6	3.2	1.6	1.0	44.9
Pittsburg	1.0	1.5	2.8	4.1	5.6	6.4	7.4	6.4	5.0	3.2	1.3	0.7	45.4
Walnut Creek	0.8	1.5	2.9	4.4	5.6	6.7	7.4	6.4	4.7	3.3	1.5	1.0	46.2
<b>DEL NORTE</b>													
Crescent City	0.5	0.9	2.0	3.0	3.7	3.5	4.3	3.7	3.0	2.0	0.9	0.5	27.7
<b>EL DORADO</b>													
Camino	0.9	1.7	2.5	3.9	5.9	7.2	7.8	6.9	5.1	3.1	1.5	0.9	47.3
<b>FRESNO</b>													
Clovis	1.0	1.5	3.2	4.8	6.4	7.7	8.5	7.3	5.3	3.4	1.4	0.7	51.4
Coalinga	1.2	1.7	3.1	4.6	6.2	7.2	8.5	7.3	5.3	3.4	1.6	0.7	50.9
Firebaugh	1.0	1.8	3.7	5.7	7.3	8.1	8.2	7.2	5.9	3.9	2.0	1.1	55.4
FivePoints	1.3	2.0	4.0	6.1	7.7	8.5	8.7	8.0	6.2	4.5	2.4	1.2	60.4
<b>FRESNO</b>													
Fresno	0.9	1.7	3.3	4.8	6.7	7.8	8.4	7.1	5.2	3.2	1.4	0.6	51.1
Fresno State	0.9	1.6	3.2	5.2	7.0	8.0	8.7	7.6	5.4	3.6	1.7	0.9	53.7
Friant	1.2	1.5	3.1	4.7	6.4	7.7	8.5	7.3	5.3	3.4	1.4	0.7	51.3
Kerman	0.9	1.5	3.2	4.8	6.6	7.7	8.4	7.2	5.3	3.4	1.4	0.7	51.2
Kingsburg	1.0	1.5	3.4	4.8	6.6	7.7	8.4	7.2	5.3	3.4	1.4	0.7	51.6
Mendota	1.5	2.5	4.6	6.2	7.9	8.6	8.8	7.5	5.9	4.5	2.4	1.6	61.7
Orange Cove	1.2	1.9	3.5	4.7	7.4	8.5	8.9	7.9	5.9	3.7	1.8	1.2	56.7
Panama	1.1	2.0	4.0	5.6	7.8	8.5	8.3	7.3	5.6	3.9	1.8	1.2	57.2
Parlier	1.0	1.9	3.6	5.2	6.8	7.6	8.1	7.0	5.1	3.4	1.7	0.9	53.0
Redley	1.1	1.5	3.2	4.7	6.4	7.7	8.5	7.3	5.3	3.4	1.4	0.7	51.8
Westlands	0.9	1.7	3.8	6.3	8.0	8.6	8.6	7.8	5.9	4.3	2.1	1.1	58.8

Appendix A - Reference Evapotranspiration (ETo) Table*													
County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ETo
<b>GLENN</b>													
Orland	1.1	1.8	3.4	5.0	6.4	7.5	7.9	6.7	5.3	3.9	1.8	1.4	52.1
Willows	1.2	1.7	2.9	4.7	6.1	7.2	8.5	7.3	5.3	3.6	1.7	1.4	51.3
<b>HUMBOLDT</b>													
Eureka	0.5	1.1	2.0	3.0	3.7	3.7	3.7	3.7	3.0	2.0	0.9	0.5	27.5
Ferndale	0.5	1.1	2.0	3.0	3.7	3.7	3.7	3.7	3.0	2.0	0.9	0.5	27.5
Garberville	0.6	1.2	2.2	3.1	4.5	5.0	5.5	4.9	3.8	2.4	1.0	0.7	34.9
Hoopla	0.5	1.1	2.1	3.0	4.4	5.4	6.1	5.1	3.8	2.4	0.9	0.7	35.6
<b>IMPERIAL</b>													
Brawley	2.8	3.8	5.9	8.0	10.4	11.5	11.7	10.0	8.4	6.2	3.5	2.1	84.2
Calipatria/Mulberry	2.4	3.2	5.1	6.8	8.6	9.2	9.2	8.6	7.0	5.2	3.1	2.3	70.7
El Centro	2.7	3.5	5.6	7.9	10.1	11.1	11.6	9.5	8.7	6.1	3.3	2.0	81.7
Holtville	2.8	3.8	5.9	7.9	10.4	11.6	12.0	10.0	7.6	6.2	3.5	2.1	84.7
Meloland	2.5	3.2	5.5	7.5	8.9	9.2	9.0	8.5	6.8	5.3	3.1	2.2	71.6
Palo Verde II	2.5	3.3	5.7	6.9	8.5	8.9	8.6	7.7	6.2	4.5	2.9	2.3	68.2
Seeley	2.7	3.5	5.9	7.7	9.7	10.1	9.3	8.3	6.9	5.5	3.4	2.2	75.4
Westmoreland	2.4	3.2	5.3	6.9	8.7	9.6	9.6	8.7	6.9	5.0	3.0	2.2	71.4
Yuma	2.5	3.4	5.3	6.9	8.7	9.6	9.6	8.7	6.9	5.0	3.0	2.2	71.6
<b>INYO</b>													
Bishop	1.7	2.7	4.1	6.7	8.2	10.9	7.4	9.6	7.4	4.8	2.5	1.6	68.3
Death Valley Jct	2.2	3.3	5.4	7.7	9.8	11.1	11.4	10.1	8.3	5.4	2.9	1.7	79.1
Independence	1.7	2.7	3.4	6.6	8.5	9.5	9.8	8.5	7.1	3.9	2.0	1.5	65.2
Lower Halwee Res.	1.8	2.7	4.4	7.1	8.5	9.5	9.8	8.5	7.1	4.2	2.6	1.5	67.6
Oasis	2.7	2.8	5.9	8.0	10.4	11.7	11.6	10.0	8.4	6.2	3.4	2.1	83.1
<b>KERN</b>													
Arvin	1.2	1.8	3.5	4.7	6.1	7.4	8.1	7.3	5.3	3.4	1.7	1.0	51.9
Bakersfield	1.0	1.8	3.5	4.7	6.6	7.7	8.5	7.3	5.3	3.5	1.6	0.9	52.4
Bakersfield/Bonanza	1.2	2.2	3.7	5.7	7.4	8.2	8.7	7.8	5.7	4.0	2.1	1.2	57.9
Bakersfield/Greenlee	1.2	2.2	3.7	5.7	7.4	8.2	8.7	7.8	5.7	4.0	2.1	1.2	57.9
<b>KERN</b>													
Belridge	1.4	2.2	3.1	5.5	7.7	8.5	8.6	7.8	6.0	3.8	2.0	1.5	59.2
Blackwells Corner	1.4	2.1	3.8	5.4	7.0	7.8	8.1	7.7	5.8	3.9	1.9	1.2	56.6
Buttonwillow	1.0	1.8	3.2	4.7	6.6	7.7	8.5	7.3	5.4	3.4	1.5	0.9	52.0
China Lake	2.1	3.2	5.3	7.7	9.2	10.0	11.0	8.8	7.3	4.9	2.7	1.7	74.8
Delano	0.9	1.8	3.4	4.7	6.6	7.7	8.5	7.5	5.4	3.4	1.4	0.7	52.0
Famoso	1.5	1.9	3.5	4.8	6.7	7.6	8.0	7.3	5.5	3.5	1.7	1.3	53.1
Grapevine	1.3	1.8	3.1	4.4	5.6	6.8	7.6	6.8	4.9	3.4	1.9	1.0	49.5
Inyokern	2.0	3.1	4.9	7.3	8.5	9.7	11.0	9.4	7.1	5.1	2.6	1.7	72.4
Isabella Dam	1.2	1.4	2.8	4.4	5.8	7.3	7.9	7.0	5.0	3.2	1.7	0.9	48.4
Lamont	1.3	2.4	4.4	4.6	6.5	7.0	8.8	7.6	5.7	4.7	1.6	0.8	54.4
Lost Hills	1.6	2.2	3.7	5.1	6.8	7.8	8.7	7.8	5.7	4.1	2.1	1.6	57.1
McFarland/Kern	1.2	2.1	3.7	5.6	7.3	8.0	8.3	7.4	5.6	4.1	2.0	1.2	56.5
Shafter	1.0	1.7	3.4	5.0	6.6	7.7	8.3	7.3	5.4	3.4	1.5	0.9	52.1
Taft	1.3	1.8	3.1	4.3	6.2	7.3	8.5	7.3	5.4	3.4	1.7	1.0	51.2
Tehachapi	1.4	1.8	3.2	5.0	6.1	7.7	7.9	7.3	5.9	3.4	2.1	1.2	52.9
<b>KINGS</b>													
Caruthers	1.6	2.5	4.0	5.7	7.8	8.7	9.3	8.4	6.3	4.4	2.4	1.4	62.7
Corcoran	1.6	2.2	3.7	5.1	6.8	7.8	8.7	7.8	5.7	4.0	2.1	1.6	57.1
Hanford	0.9	1.5	3.4	5.0	6.6	7.7	8.3	7.2	5.4	3.4	1.4	0.7	51.5
Kettleman	1.1	2.0	4.0	6.0	7.5	8.5	9.1	8.2	6.1	4.5	2.2	1.1	60.2
Leopore	0.9	1.5	3.4	5.0	6.6	7.7	8.3	7.3	5.4	3.4	1.4	0.7	51.7
Statford	0.9	1.9	3.9	6.1	7.8	8.6	8.8	7.7	5.9	4.1	2.1	1.0	58.7

Appendix A - Reference Evapotranspiration (ETo) Table*													
County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ETo
<b>LAKE</b>													
Lakeport	1.1	1.3	2.6	3.5	5.1	6.0	7.3	6.1	4.7	2.9	1.2	0.9	42.8
Lower Lake	1.2	1.4	2.7	4.5	5.3	6.3	7.4	6.4	5.0	3.1	1.3	0.9	45.4
<b>LASSEN</b>													
Buntingville	1.0	1.7	3.5	4.9	6.2	7.3	8.4	7.5	5.4	3.4	1.5	0.9	51.8
Ravendale	0.6	1.1	2.3	4.1	5.6	6.7	7.9	7.3	4.7	2.8	1.2	0.5	44.9
Susanville	0.7	1.0	2.2	4.1	5.6	6.5	7.8	7.0	4.6	2.8	1.2	0.5	44.0
<b>LOS ANGELES</b>													
Burbank	2.1	2.8	3.7	4.7	5.1	6.0	6.6	6.7	5.4	4.0	2.6	2.0	51.7
Claremont	2.0	2.3	3.4	4.6	5.0	6.0	7.0	7.0	5.3	4.0	2.7	2.1	51.3
El Dorado	1.7	2.2	3.6	4.8	5.1	5.7	5.9	5.9	4.4	3.2	2.2	1.7	46.3
Glendale	2.0	2.2	3.3	3.8	4.7	4.8	5.7	5.6	4.3	3.3	2.2	1.8	43.7
Glendora	2.0	2.5	3.6	4.9	5.4	6.1	7.3	6.8	5.7	4.2	2.6	2.0	53.1
Gorman	1.6	2.2	3.4	4.6	5.5	7.4	7.7	7.1	5.9	3.6	2.4	1.1	52.4
Hollywood Hills	2.1	2.2	3.8	5.4	6.0	6.5	6.7	6.4	5.2	3.7	2.8	2.1	52.8
Lancaster	2.1	3.0	4.6	5.9	8.5	9.7	11.0	8.8	7.3	4.6	2.8	1.7	71.1
Long Beach	1.8	2.1	3.3	3.9	4.5	4.3	5.3	4.7	3.7	2.8	1.8	1.5	39.7
Los Angeles	2.2	2.7	3.7	4.7	5.5	5.8	6.2	5.9	5.0	3.9	2.6	1.9	50.1
<b>LOS ANGELES</b>													
Monrovia	2.2	2.3	3.8	4.3	5.5	5.9	6.9	6.4	5.1	3.2	2.5	2.0	50.2
Palmdale	2.0	2.6	4.6	5.2	7.3	8.9	9.8	9.0	6.5	4.7	2.7	2.1	66.2
Pasadena	2.1	2.7	3.7	4.7	5.1	6.0	7.1	6.7	5.6	4.2	2.6	2.0	52.3
Pearblossom	1.7	2.4	3.7	4.7	7.3	7.7	9.9	7.9	6.4	4.0	2.6	1.6	59.9
Pomona	1.7	2.0	3.4	4.5	5.0	5.8	6.5	6.4	4.7	3.5	2.3	1.7	47.5
Redondo Beach	2.2	2.4	3.3	3.8	4.7	4.7	5.4	4.8	4.4	2.8	2.4	2.0	42.6
San Fernando	2.0	2.7	3.5	4.6	5.5	5.9	7.3	6.7	5.3	3.9	2.6	2.0	52.0
Santa Clarita	2.8	2.8	4.1	5.6	6.0	5.8	7.6	7.8	5.8	5.2	3.7	3.2	61.5
Santa Monica	1.8	2.1	3.3	4.5	4.7	5.7	5.4	5.4	3.9	3.4	2.4	2.2	44.2
<b>MADERA</b>													
Chowchilla	1.0	1.4	3.2	4.7	6.6	7.8	8.5	7.3	5.3	3.4	1.4	0.7	51.4
Madera	0.9	1.4	3.2	4.8	6.6	7.8	8.2	7.3	5.3	3.4	1.4	0.7	51.5
Raymond	1.2	1.5	3.0	4.6	6.1	7.6	8.4	7.3	5.2	3.4	1.4	0.7	50.5
<b>MARIN</b>													
Black Point	1.1	1.7	3.0	4.2	5.2	6.2	6.6	5.8	4.3	2.8	1.3	0.9	43.0
Novato	1.3	1.5	2.4	3.5	4.4	6.0	5.9	5.4	4.4	2.8	1.4	0.7	39.8
Point San Pedro	1.1	1.7	3.0	4.2	5.2	6.2	6.6	5.8	4.3	2.8	1.3	0.9	43.0
San Rafael	1.2	1.3	2.4	3.3	4.0	4.8	4.8	4.9	4.3	2.7	1.3	0.7	35.8
<b>MARIPOSA</b>													
Coulterville	1.1	1.5	2.8	4.4	5.9	7.3	8.1	7.0	5.3	3.4	1.4	0.7	48.8
Mariposa	1.1	1.5	2.8	4.4	5.9	7.4	8.2	7.1	5.0	3.4	1.4	0.7	49.0
Yosemite Village	0.7	1.0	2.3	3.7	5.1	6.5	7.1	6.1	4.4	2.9	1.1	0.6	41.4
<b>MENDOCINO</b>													
Fort Bragg	0.9	1.3	2.2	3.0	3.7	3.5	3.7	3.7	3.0	2.3	1.2	0.7	29.0
Hopland	1.1	1.3	2.6	3.4	5.0	5.9	6.5	5.7	4.5	2.8	1.3	0.7	40.9
Point Arena	1.0	1.3	2.3	3.0	3.7	3.9	3.7	3.7	3.0	2.3	1.2	0.7	29.6
Sanel Valley	1.0	1.6	3.0	4.6	6.0	7.0	8.0	7.0	5.2	3.4	1.4	0.9	49.1
Ukiah	1.0	1.3	2.6	3.3	5.0	5.8	6.7	5.9	4.5	2.8	1.3	0.7	40.9
<b>MERCED</b>													
Kesterson	0.9	1.7	3.4	5.5	7.3	8.2	8.6	7.4	5.5	3.8	1.8	0.9	55.1
Los Banos	1.0	1.5	3.2	4.7	6.1	7.4	8.2	7.0	5.3	3.4	1.4	0.7	50.0
Merced	1.0	1.5	3.2	4.7	6.6	7.9	8.5	7.2	5.3	3.4	1.4	0.7	51.5

**Appendix A - Reference Evapotranspiration (ET<sub>o</sub>) Table\***

County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ET <sub>o</sub>
<b>MODOC</b>													
Modoc/Aurora	0.9	1.4	2.8	3.7	5.1	6.2	7.5	6.6	4.6	2.8	1.2	0.7	43.2
<b>MONO</b>													
Bridgeport	0.7	0.9	2.2	3.8	5.5	6.6	7.4	6.7	4.7	2.7	1.2	0.5	43.0
<b>MONTEREY</b>													
Arroyo Seco	1.5	2.0	3.7	5.4	6.3	7.3	7.2	6.7	5.0	3.9	2.0	1.6	52.6
Castroville	1.4	1.7	3.0	4.2	4.6	4.8	4.0	3.8	3.0	2.9	1.6	1.4	36.2
Gonzales	1.3	1.7	3.4	4.7	5.4	6.3	6.3	5.9	4.4	3.4	1.9	1.3	45.7
<b>MONTEREY</b>													
Greenfield	1.8	2.2	3.4	4.8	5.6	6.3	6.5	6.2	4.5	3.7	2.4	1.8	49.5
King City	1.7	2.0	3.4	4.4	4.4	5.6	6.1	6.7	5.5	5.2	2.2	1.3	49.6
King City-Oasis Rd.	1.4	1.9	3.6	5.3	6.5	7.3	7.4	6.8	5.1	4.0	2.0	1.5	52.7
Long Valley	1.5	1.9	3.2	4.1	5.8	6.5	7.3	6.7	5.3	3.6	2.0	1.2	49.1
Monterey	1.7	1.8	2.7	3.5	4.0	4.1	4.3	4.2	3.5	2.8	1.9	1.5	36.0
Pajaro	1.8	2.2	3.7	4.8	5.3	5.7	5.6	5.3	4.3	3.4	2.4	1.8	46.1
Salinas	1.6	1.9	2.7	3.8	4.8	4.7	5.2	4.5	4.0	2.9	1.9	1.3	39.1
Salinas North	1.2	1.5	2.9	4.1	4.6	5.2	6.5	4.3	3.2	2.8	1.5	1.2	36.9
San Ardo	1.0	1.7	3.1	4.5	5.9	7.2	8.1	7.1	5.1	3.1	1.5	1.0	49.0
San Juan	1.8	2.1	3.4	4.6	5.3	5.7	5.5	4.9	3.8	3.2	2.2	1.9	44.2
Soledad	1.7	2.0	3.4	4.4	5.5	6.4	6.5	6.2	5.2	3.7	2.2	1.5	47.7
<b>NAPA</b>													
Angwin	1.8	1.9	3.2	4.7	5.8	7.3	8.1	7.1	5.5	4.5	2.9	2.1	54.9
Carneros	0.8	1.5	3.1	4.6	5.5	6.6	6.9	6.2	4.7	3.5	1.4	1.0	45.8
Oakville	1.0	1.5	2.9	4.7	5.9	6.9	7.2	6.4	4.9	3.5	1.6	1.2	47.7
St Helena	1.2	1.5	2.8	3.9	5.1	6.1	7.0	6.2	4.8	3.1	1.4	0.9	44.1
Yountville	1.3	1.7	2.8	3.9	5.1	6.0	7.1	6.1	4.8	3.1	1.5	0.9	44.3
<b>NEVADA</b>													
Grass Valley	1.1	1.5	2.6	4.0	5.7	7.1	7.9	7.1	5.3	3.2	1.5	0.9	48.0
Nevada City	1.1	1.5	2.6	3.9	5.8	6.9	7.9	7.0	5.3	3.2	1.4	0.9	47.4
<b>ORANGE</b>													
Irvine	2.2	2.5	3.7	4.7	5.2	5.9	6.3	6.2	4.6	3.7	2.6	2.3	49.6
Laguna Beach	2.2	2.7	3.4	3.8	4.6	4.6	4.9	4.9	4.4	3.4	2.4	2.0	43.2
Santa Ana	2.2	2.7	3.7	4.5	4.6	5.4	6.2	6.1	4.7	3.7	2.5	2.0	48.2
<b>PLACER</b>													
Auburn	1.2	1.7	2.8	4.4	6.1	7.4	8.3	7.3	5.4	3.4	1.6	1.0	50.6
Blue Canyon	0.7	1.1	2.1	3.4	4.8	6.0	7.2	6.1	4.6	2.9	0.9	0.6	40.5
Colfax	1.1	1.5	2.6	4.0	5.8	7.1	7.9	7.0	5.3	3.2	1.4	0.9	47.9
Roseville	1.1	1.7	3.1	4.7	6.2	7.7	8.5	7.3	5.6	3.7	1.7	1.0	52.2
Soda Springs	0.7	0.7	1.8	3.0	4.3	5.3	6.2	5.5	4.1	2.5	0.7	0.7	35.4
Tahoe City	0.7	0.7	1.7	3.0	4.3	5.4	6.1	5.6	4.1	2.4	0.8	0.6	35.5
Truckee	0.7	0.7	1.7	3.2	4.4	5.4	6.4	5.7	4.1	2.4	0.8	0.6	36.2
<b>PLUMAS</b>													
Portola	0.7	0.9	1.9	3.5	4.9	5.9	7.3	5.9	4.3	2.7	0.9	0.5	39.4
Quincy	0.7	0.9	2.2	3.5	4.9	5.9	7.3	5.9	4.4	2.8	1.2	0.5	40.2
<b>RIVERSIDE</b>													
Beaumont	2.0	2.3	3.4	4.4	6.1	7.1	7.6	7.9	6.0	3.9	2.6	1.7	50.0
Blaine	2.4	3.3	5.3	6.9	8.7	9.6	9.6	8.7	6.9	5.0	3.0	2.2	71.4
Cathedral City	1.6	2.2	3.7	5.1	6.8	7.8	8.7	7.8	5.7	4.0	2.1	1.6	57.1
Coachella	2.9	4.4	6.2	8.4	10.5	11.9	12.3	10.1	8.9	6.2	3.8	2.4	88.1

Appendix A - Reference Evapotranspiration (ETo) Table*													
County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ETo
<b>RIVERSIDE</b>													
Desert Center	2.9	4.1	6.4	8.5	11.0	12.1	12.2	11.1	9.0	6.4	3.9	2.4	90.0
Elsinore	2.1	2.8	3.9	4.4	5.9	7.1	7.6	7.0	5.8	3.9	2.6	2.9	55.0
Indio	3.1	3.6	6.5	8.3	10.5	11.0	10.8	9.7	8.3	5.9	3.7	2.7	83.9
La Quinta	2.4	2.8	5.2	6.5	8.3	8.7	8.5	7.9	6.5	4.5	2.7	2.2	66.2
Mecca	2.6	3.3	5.7	7.2	8.6	9.0	8.8	8.2	6.8	5.0	3.2	2.4	70.8
Oasis	2.9	3.3	5.3	6.1	8.5	8.9	8.7	7.9	6.9	4.8	2.9	2.3	68.4
Palm Deser	2.5	3.4	5.3	6.9	8.7	9.6	9.6	8.7	6.9	5.1	3.0	2.2	71.6
Palm Springs	2.0	2.9	4.9	7.2	8.3	8.5	11.6	8.3	7.2	4.9	2.7	1.7	71.1
Rancho California	1.8	2.2	3.4	4.8	5.6	6.3	6.5	6.2	4.8	3.7	2.4	1.8	49.5
Rancho Mirage	2.4	3.3	5.3	6.9	8.7	9.6	9.6	8.7	6.7	5.0	3.0	2.2	71.4
Ripley	2.7	3.3	5.6	7.2	8.7	8.7	8.4	7.6	6.2	4.6	2.8	2.2	67.8
Salton Sea North	2.5	3.3	5.5	7.2	8.8	9.3	9.2	8.5	6.8	5.2	3.1	2.3	71.7
Temecula East II	2.3	2.4	4.1	4.9	6.4	7.0	7.8	7.7	5.7	4.1	2.6	2.2	56.7
Thermal	2.4	3.3	5.5	7.6	9.1	9.6	9.3	8.6	7.1	5.2	3.1	2.1	72.8
Riverside UC	2.5	2.7	4.2	5.3	5.9	6.6	7.2	6.9	5.4	4.1	2.9	2.6	56.4
Winchester	2.3	2.4	4.1	4.9	6.4	6.9	7.7	7.5	6.0	3.9	2.6	2.1	56.8
<b>SACRAMENTO</b>													
Fair Oaks	1.0	1.6	3.1	4.1	6.5	7.5	8.1	7.1	5.2	3.4	1.5	1.0	50.5
Sacramento	1.0	1.8	3.2	4.7	6.4	7.7	8.4	7.2	5.4	3.7	1.7	0.9	51.9
Twitchell Island	1.2	1.8	3.9	5.3	7.4	7.8	9.1	7.8	5.9	3.8	1.7	1.2	57.9
<b>SAN BENITO</b>													
Hollister	1.5	1.8	3.1	4.3	5.7	5.7	6.4	5.9	5.0	3.5	1.7	1.1	45.1
San Benito	1.2	1.6	3.1	4.6	6.6	6.4	6.9	6.5	4.8	3.7	1.7	1.2	47.2
San Juan Valley	1.4	1.8	3.4	4.5	6.5	6.7	7.1	6.4	5.0	3.5	1.8	1.4	49.1
<b>SAN BERNARDINO</b>													
Baker	2.7	3.9	6.1	8.3	10.4	11.8	12.2	11.0	8.9	6.1	3.3	2.1	86.6
Barstow NE	2.2	2.9	5.3	6.9	9.0	10.1	9.9	8.9	6.8	4.8	2.7	2.1	71.7
Big Bear Lake	1.8	2.6	4.3	6.0	7.0	7.6	8.1	7.4	5.4	4.1	2.4	1.8	58.6
Chino	2.1	2.9	3.9	4.5	5.7	6.5	7.3	7.1	5.9	4.2	2.6	2.0	54.6
Crestline	1.5	1.9	3.3	4.4	5.5	6.6	7.3	7.1	5.4	3.5	2.2	1.6	50.8
Lake Arrowhead	1.8	2.5	4.6	6.0	7.0	7.6	8.1	7.4	5.4	4.1	2.4	1.8	58.6
Lucerne Valley	2.2	2.9	5.1	6.5	9.1	11.0	11.4	9.9	7.4	5.0	3.0	1.8	75.3
Needles	3.2	4.2	6.6	8.9	11.0	12.4	12.8	11.9	8.9	6.6	4.0	2.7	92.1
Newberry Springs	2.1	2.9	5.3	8.4	9.8	10.9	11.1	9.9	7.6	5.2	3.1	2.0	78.2
San Bernardino	2.0	2.7	3.8	4.6	5.7	6.9	7.9	7.4	5.9	4.2	2.6	2.0	55.6
Twentynine Palms	2.6	3.6	5.9	7.9	10.1	11.2	11.2	10.3	8.6	5.9	3.4	2.2	82.9
Victorville	2.0	2.6	4.6	6.2	7.3	8.9	9.8	9.0	6.5	4.7	2.7	2.1	66.2
<b>SAN DIEGO</b>													
Chula Vista	2.2	2.7	3.4	3.8	4.9	4.7	5.5	4.9	4.5	3.4	2.4	2.0	44.2
Escondido SPV	2.4	2.6	3.9	4.7	5.9	6.5	7.1	6.7	5.3	3.9	2.8	2.3	54.2
<b>SAN DIEGO</b>													
Miramar	2.3	2.5	3.7	4.1	5.1	5.4	6.1	5.8	4.5	3.3	2.4	2.1	47.1
Oceanside	2.2	2.7	3.4	3.7	4.9	4.6	4.6	5.1	4.1	3.3	2.4	2.0	42.9
Otay Lake	2.3	2.7	3.9	4.6	5.6	5.9	6.2	6.1	4.8	3.7	2.6	2.2	50.4
Pine Valley	1.5	2.4	3.8	5.1	6.0	7.0	7.8	7.3	6.0	4.0	2.2	1.7	54.8
Ramona	2.1	2.1	3.4	4.6	5.2	6.3	6.7	6.8	5.3	4.1	2.8	2.1	51.6
San Diego	2.1	2.4	3.4	4.6	5.1	5.3	5.7	5.6	4.3	3.6	2.4	2.0	45.5
Santee	2.1	2.7	3.7	4.5	5.5	6.1	6.6	6.2	5.4	3.8	2.6	2.0	51.1
Trey Pines	2.2	2.3	3.4	3.9	4.0	4.1	4.6	4.7	3.8	2.8	2.0	2.0	39.8
Warner Springs	1.6	2.7	3.7	4.7	5.7	7.6	8.3	7.7	6.3	4.0	2.5	1.3	56.0

Appendix A - Reference Evapotranspiration (ET <sub>o</sub> ) Table*													
County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ET <sub>o</sub>
<b>SAN FRANCISCO</b>													
San Francisco	1.5	1.3	2.4	3.0	3.7	4.6	4.9	4.8	4.1	2.8	1.3	0.7	35.1
<b>SAN JOAQUIN</b>													
Farmington	1.5	1.5	2.9	4.7	6.2	7.6	8.1	6.8	5.3	3.3	1.4	0.7	50.0
Lodi West	1.0	1.6	3.3	4.3	6.3	6.9	7.3	6.4	4.5	3.0	1.4	0.8	46.7
Manteca	0.9	1.7	3.4	5.0	6.5	7.5	8.0	7.1	5.2	3.3	1.8	0.9	51.2
Stockton	0.8	1.5	2.9	4.7	6.2	7.4	8.1	6.8	5.3	3.2	1.4	0.6	49.1
Tracy	1.0	1.5	2.9	4.5	6.1	7.3	7.9	6.7	5.3	3.7	1.3	0.7	48.5
<b>SAN LUIS OBISPO</b>													
Arroyo Grande	2.0	2.2	3.2	3.8	4.3	4.7	4.3	4.6	3.8	3.2	2.4	1.7	40.0
Atascadero	1.2	1.5	2.8	3.9	4.5	6.0	6.7	6.2	5.2	3.2	1.7	1.0	43.7
Morro Bay	2.0	2.2	3.1	3.5	4.3	4.5	4.6	4.6	3.8	3.5	2.1	1.7	39.9
Nipomo	2.2	2.5	3.8	5.1	5.7	6.2	6.4	6.1	4.9	4.1	2.9	2.3	52.1
Paso Robles	1.6	2.0	3.2	4.3	5.5	6.3	7.3	6.7	5.1	3.7	2.1	1.4	49.0
San Luis Obispo	2.0	2.0	3.2	4.1	4.9	5.3	4.6	5.5	4.4	3.5	2.4	1.7	43.8
San Miguel	1.6	2.0	3.2	4.3	5.0	6.4	7.4	6.8	5.1	3.7	2.1	1.4	49.0
San Simeon	2.0	2.0	2.9	3.5	4.2	4.4	4.6	4.3	3.5	3.1	2.0	1.7	38.1
<b>SAN MATEO</b>													
Hal Moon Bay	1.5	1.7	2.4	3.0	3.9	4.3	4.3	4.2	3.5	2.8	1.3	1.0	33.7
Redwood City	1.5	1.8	2.9	3.8	5.2	5.3	6.2	5.6	4.8	3.1	1.7	1.0	42.8
Woodside	1.8	2.2	3.4	4.6	5.6	6.3	6.5	6.2	4.8	3.7	2.4	1.8	49.5
<b>SANTA BARBARA</b>													
Betteravia	2.1	2.6	4.0	5.2	6.0	5.9	5.8	5.4	4.1	3.3	2.7	2.1	49.1
Carpenteria	2.0	2.4	3.2	3.9	4.6	5.2	5.5	5.7	4.5	3.4	2.4	2.0	44.9
Cuyama	2.1	2.4	3.8	5.1	6.9	7.9	8.5	7.7	5.9	4.5	2.6	2.0	59.7
Goleta	2.1	2.5	3.9	5.1	5.7	5.7	5.4	5.4	4.2	3.2	2.8	2.2	48.1
Goleta Foothills	2.3	2.6	3.7	5.4	5.3	5.6	5.5	5.7	4.5	3.9	2.8	2.3	49.6
Guadalupe	2.0	2.2	3.2	3.7	4.9	4.6	4.5	4.6	4.1	3.3	2.4	1.7	41.1
Lompoc	2.0	2.2	3.2	3.7	4.8	4.6	4.9	4.8	3.9	3.2	2.4	1.7	41.1
Los Alamos	1.8	2.0	3.2	4.1	4.9	5.3	5.7	5.5	4.4	3.7	2.4	1.6	44.6
Santa Barbara	2.0	2.5	3.2	3.8	4.6	5.1	5.5	4.5	3.4	2.4	1.8	1.8	40.6
<b>SANTA BARBARA</b>													
Santa Maria	1.8	2.3	3.7	5.1	5.7	5.8	5.6	5.3	4.2	3.5	2.4	1.9	47.4
Santa Ynez	2.7	2.2	3.5	5.0	5.8	6.2	6.4	6.0	4.5	3.6	2.2	1.7	48.7
Sisquoc	2.1	2.5	3.8	4.1	6.1	6.3	6.4	5.8	4.1	3.4	2.3	1.8	49.2
Solvang	2.0	2.0	3.3	4.3	5.0	5.6	6.1	5.6	4.4	3.7	2.2	1.6	45.6
<b>SANTA CLARA</b>													
Gilroy	1.3	1.8	3.1	4.1	5.3	5.6	6.1	5.5	4.7	3.1	1.7	1.1	43.6
Los Gatos	1.5	1.8	2.8	3.9	5.0	5.6	6.2	5.5	4.7	3.2	1.7	1.1	42.9
Morgan Hill	1.5	1.8	3.4	4.2	6.3	7.0	7.1	6.0	5.1	3.7	2.9	1.4	49.5
Palo Alto	1.5	1.8	2.8	3.8	5.2	5.3	6.2	5.6	5.0	3.2	1.7	1.0	43.0
San Jose	1.5	1.8	3.1	4.1	5.5	5.8	6.5	5.9	5.2	3.3	1.8	1.0	45.3
<b>SANTA CRUZ</b>													
De Laveaga	1.4	1.9	3.3	4.7	4.9	5.3	5.0	4.8	3.6	3.0	1.6	1.3	40.8
Green Valley Rd	1.2	1.8	3.2	4.5	4.6	5.4	5.2	5.0	3.7	3.1	1.6	1.3	40.6
Santa Cruz	1.5	1.8	2.6	3.5	4.3	4.4	4.8	4.4	3.8	2.8	1.7	1.2	38.6
Watsonville	1.5	1.8	2.7	3.7	4.6	4.5	4.9	4.2	4.0	2.9	1.8	1.2	37.7
Webb	1.8	2.2	3.7	4.8	5.3	5.7	5.6	5.3	4.3	3.4	2.4	1.8	46.2

**Appendix A - Reference Evapotranspiration (ETo) Table\***

County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ETo
<b>SHASTA</b>													
Burney	0.7	1.0	2.1	3.5	4.9	5.9	7.4	6.4	4.4	2.9	0.9	0.6	40.9
Fall River Mills	0.6	1.0	2.1	3.7	5.0	6.1	7.8	6.7	4.6	2.8	0.9	0.5	41.8
Glenburn	0.6	1.0	2.1	3.7	5.0	6.3	7.8	6.7	4.7	2.8	0.9	0.6	42.1
McArthur	0.7	1.4	2.9	4.2	5.6	6.9	8.2	7.2	5.0	3.0	1.0	0.6	46.8
Redding	1.2	1.4	2.6	4.1	5.6	7.1	6.5	7.3	5.3	3.2	1.4	0.9	48.8
<b>SIERRA</b>													
Downsville	0.7	1.0	2.3	3.5	5.0	6.0	7.4	6.2	4.7	2.9	0.9	0.6	41.3
Sierraville	0.7	1.1	2.2	3.2	4.5	5.9	7.3	6.4	4.3	2.6	0.9	0.5	39.6
<b>SISKIYOU</b>													
Happy Camp	0.5	0.9	2.0	3.0	4.3	5.2	6.1	5.3	4.0	2.4	0.9	0.5	35.1
MacDoel	1.0	1.7	3.1	4.5	5.9	7.2	8.1	7.1	5.1	3.1	1.5	1.0	49.0
Mt Shasta	0.5	0.9	2.0	3.0	4.5	5.3	6.7	5.7	4.0	2.2	0.7	0.5	36.0
Tule lake FS	0.7	1.3	2.7	4.0	5.4	6.3	7.1	6.7	4.7	2.8	1.0	0.6	42.9
Weed	0.5	0.9	2.0	2.5	4.5	5.3	6.7	5.5	3.7	2.0	0.9	0.5	34.9
Yreka	0.6	0.9	2.1	3.0	4.9	5.8	7.3	6.5	4.3	2.5	0.9	0.5	39.2
<b>SOLANO</b>													
Dixon	0.7	1.4	3.2	5.2	6.3	7.6	8.2	7.2	5.5	4.3	1.6	1.1	52.1
Fairfield	1.1	1.7	2.9	4.0	5.5	6.1	7.8	6.0	4.8	3.1	1.4	0.9	45.2
Hastings Tract	1.6	2.2	3.7	5.1	6.8	7.8	8.7	7.8	5.7	4.0	2.1	1.6	57.1
Putah Creek	1.0	1.6	3.2	4.9	6.1	7.3	7.9	7.0	5.3	3.8	1.8	1.2	51.0
Rio Vista	0.9	1.7	2.8	4.4	5.9	6.7	7.9	6.5	5.1	3.2	1.3	0.7	47.0
Suisun Valley	0.6	1.3	3.0	4.7	5.8	7.0	7.7	6.8	5.3	3.8	1.4	0.9	48.3
Winters	0.9	1.7	3.3	5.0	6.4	7.5	7.9	7.0	5.2	3.5	1.6	1.0	51.0
<b>SONOMA</b>													
Bennett Valley	1.1	1.7	3.2	4.2	5.5	6.5	6.6	5.7	4.5	3.1	1.5	0.9	44.4
Cloverdale	1.1	1.4	2.6	3.4	5.0	5.9	6.2	5.6	4.5	2.8	1.4	0.7	40.7
Fort Ross	1.2	1.4	2.2	3.0	3.7	4.8	4.2	4.3	3.4	2.4	1.2	0.5	31.9
Healdsburg	1.2	1.5	2.7	3.5	5.0	5.9	6.1	5.6	4.5	2.8	1.4	0.7	40.8
Lincoln	1.2	1.7	2.8	4.7	6.1	7.4	8.4	7.3	5.4	3.7	1.9	1.2	51.9
Petaluma	1.2	1.5	2.8	3.7	4.6	5.6	4.8	5.7	4.5	2.9	1.4	0.9	39.6
Santa Rosa	1.2	1.7	2.8	3.7	5.0	6.0	6.1	5.9	4.5	2.9	1.5	0.7	42.0
Valley of the Moon	1.0	1.6	3.0	4.5	5.6	6.6	7.1	6.3	4.7	3.3	1.5	1.0	46.1
Windsor	0.9	1.6	3.0	4.5	5.5	6.5	6.5	5.8	4.4	3.2	1.4	1.0	44.2
Denair	1.0	1.9	3.6	4.7	7.0	7.9	8.0	6.1	5.3	3.4	1.5	1.0	51.4
La Grange	1.2	1.5	3.1	4.7	6.2	7.7	8.5	7.3	5.3	3.4	1.4	0.7	51.2
Modesto	0.9	1.4	3.2	4.7	6.4	7.7	8.1	6.8	5.2	3.4	1.4	0.7	49.7
Newman	1.0	1.5	3.2	4.6	6.2	7.4	8.1	6.7	5.0	3.4	1.4	0.7	49.3
<b>STANISLAUS</b>													
Oakdale	1.2	1.5	3.2	4.7	6.2	7.7	8.1	7.1	5.1	3.4	1.4	0.7	50.3
Patterson	1.3	2.1	4.2	5.4	7.9	8.6	8.2	6.6	5.8	4.0	1.9	1.3	57.3
Turlock	0.9	1.5	3.2	4.7	6.5	7.7	8.2	7.0	5.1	3.4	1.4	0.7	50.2
<b>SUTTER</b>													
Nicolaus	0.9	1.6	3.2	4.9	6.3	7.5	8.0	6.9	5.2	3.4	1.5	0.9	50.2
Yuba City	1.3	2.1	2.8	4.4	5.7	7.2	7.1	6.1	4.7	3.2	1.2	0.9	46.7
<b>TEHAMA</b>													
Corning	1.2	1.8	2.9	4.5	6.1	7.3	8.1	7.2	5.3	3.7	1.7	1.1	50.7
Gerber	1.0	1.8	3.5	5.0	6.6	7.9	8.7	7.4	5.8	4.1	1.8	1.1	51.7
Geiger Dryland	0.9	1.6	3.2	4.7	6.7	8.4	9.0	7.9	6.0	4.2	2.0	1.0	55.1
Red Bluff	1.2	1.8	2.9	4.4	5.9	7.4	8.5	7.3	5.4	3.5	1.7	1.0	51.1

Appendix A - Reference Evapotranspiration (ET <sub>o</sub> ) Table*													
County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ET <sub>o</sub>
<b>TRINITY</b>													
Hay Fork	0.5	1.1	2.3	3.5	4.9	5.9	7.0	6.0	4.5	2.8	0.9	0.7	40.1
Weaverville	0.6	1.1	2.2	3.3	4.9	5.9	7.3	6.0	4.4	2.7	0.9	0.7	40.0
<b>TULARE</b>													
Alpaugh	0.9	1.7	3.4	4.8	6.6	7.7	8.2	7.3	5.4	3.4	1.4	0.7	51.6
Badger	1.0	1.3	2.7	4.1	6.0	7.3	7.7	7.0	4.8	3.3	1.4	0.7	47.3
Delano	1.1	1.9	4.0	4.9	7.2	7.9	8.1	7.3	5.4	3.2	1.5	1.2	53.6
Dinuba	1.1	1.5	3.2	4.7	6.2	7.7	8.5	7.3	5.3	3.4	1.4	0.7	51.2
Lindcove	0.9	1.6	3.0	4.8	6.5	7.6	8.1	7.2	5.2	3.4	1.6	0.9	50.6
Porterville	1.1	1.8	3.4	4.7	6.6	7.7	8.5	7.3	5.3	3.4	1.4	0.7	52.1
Visalia	0.9	1.7	3.3	5.1	6.8	7.7	7.9	6.9	4.9	3.2	1.5	0.8	50.7
<b>TUOLUMNE</b>													
Groveland	1.1	1.5	2.8	4.1	5.7	7.2	7.9	6.6	5.1	3.3	1.4	0.7	47.5
Sonora	1.1	1.5	2.8	4.1	5.8	7.2	7.9	6.7	5.1	3.2	1.4	0.7	47.6
<b>VENTURA</b>													
Camarillo	2.2	2.5	3.7	4.3	5.0	5.2	5.9	5.4	4.2	3.0	2.5	2.1	46.1
Oxnard	2.2	2.5	3.2	3.7	4.4	4.6	5.4	4.8	4.0	3.3	2.4	2.0	42.3
Piru	2.8	2.8	4.1	5.6	6.8	6.8	7.6	7.8	5.8	5.2	3.7	3.2	61.5
Port Hueneme	2.0	2.3	3.3	4.6	4.9	4.9	4.9	5.0	3.7	3.2	2.5	2.2	43.5
Thousand Oaks	2.2	2.6	3.4	4.5	5.4	5.9	6.7	6.4	5.4	3.9	2.6	2.0	51.0
Ventura	2.2	2.6	3.2	3.8	4.6	4.7	5.5	4.9	4.1	3.4	2.5	2.0	43.5
<b>YOLO</b>													
Bryte	0.9	1.7	3.3	5.0	6.4	7.5	7.9	7.0	5.2	3.5	1.6	1.0	51.0
Davis	1.0	1.9	3.3	5.0	6.4	7.6	8.1	7.1	5.4	4.0	1.8	1.0	52.5
Esparto	1.0	1.7	3.4	5.5	6.9	8.1	8.5	7.5	5.8	4.2	2.0	1.2	55.8
Winters	1.7	1.7	2.9	4.4	5.8	7.1	7.9	6.7	5.3	3.3	1.6	1.0	49.4
Woodland	1.7	1.8	3.2	4.7	6.1	7.7	8.2	7.2	5.4	3.7	1.7	1.0	51.6
Zamora	1.1	1.9	3.5	5.2	6.4	7.4	7.8	7.0	5.5	4.0	1.9	1.2	52.8
<b>YUBA</b>													
Brown's Valley	1.0	1.7	3.1	4.7	6.1	7.5	8.5	7.6	5.7	4.1	2.0	1.1	52.9
Brownsville	1.1	1.4	2.6	4.0	5.7	6.8	7.9	6.8	5.3	3.7	1.5	0.9	47.4
* The values in this table were derived from:													
1) California Irrigation Management Information System (CIMIS);													
2) Reference Evapotranspiration Zones Map, UC Dept. of Land, Air & Water Resources and California Dept of Water Resources 1999; and													
3) Reference Evapotranspiration for California, University of California, Department of Agriculture and Natural Resources (1987) Bulletin 1922 4) Determining Daily Reference Evapotranspiration, Cooperative Extension UC Division of Agriculture and Natural Resources (1987), Publication Leaflet 21426													

**Appendix A - Reference Evapotranspiration (ET<sub>o</sub>) Table\***

County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ET <sub>o</sub>
<b>ALAMEDA</b>													
Fremont	1.5	1.9	3.4	4.7	5.4	6.3	6.7	6.0	4.5	3.4	1.8	1.5	47.0
Livermore	1.2	1.5	2.9	4.4	5.9	6.6	7.4	6.4	5.3	3.2	1.5	0.9	47.2
Oakland	1.5	1.5	2.8	3.9	5.1	5.3	6.0	5.5	4.8	3.1	1.4	0.9	41.8
Oakland Foothills	1.1	1.4	2.7	3.7	5.1	6.4	5.8	4.9	3.6	2.6	1.4	1.0	39.6
Pleasanton	0.8	1.5	2.9	4.4	5.6	6.7	7.4	6.4	4.7	3.3	1.5	1.0	46.2
Union City	1.4	1.8	3.1	4.2	5.4	5.9	6.4	5.7	4.4	3.1	1.5	1.2	44.2
<b>ALPINE</b>													
Markleeville	0.7	0.9	2.0	3.5	5.0	6.1	7.3	6.4	4.4	2.6	1.2	0.5	40.6
<b>AMADOR</b>													
Jackson	1.2	1.5	2.8	4.4	6.0	7.2	7.9	7.2	5.3	3.2	1.4	0.9	48.9
Shanandoah Valley	1.0	1.7	2.9	4.4	5.6	6.8	7.9	7.1	5.2	3.6	1.7	1.0	48.8
<b>BUTTE</b>													
Chico	1.2	1.8	2.9	4.7	6.1	7.4	8.5	7.3	5.4	3.7	1.7	1.0	51.7
Durham	1.1	1.8	3.2	5.0	6.5	7.4	7.8	6.9	5.3	3.6	1.7	1.0	51.1
Gridley	1.2	1.8	3.0	4.7	6.1	7.7	8.5	7.1	5.4	3.7	1.7	1.0	51.9
Oroville	1.2	1.7	2.8	4.7	6.1	7.6	8.5	7.3	5.3	3.7	1.7	1.0	51.5
<b>CALAVERAS</b>													
San Andreas	1.2	1.5	2.8	4.4	6.0	7.3	7.9	7.0	5.3	3.2	1.4	0.7	48.8
<b>COLUSA</b>													
Colusa	1.0	1.7	3.4	5.0	6.4	7.6	8.3	7.2	5.4	3.8	1.8	1.1	52.8
Williams	1.2	1.7	2.9	4.5	6.1	7.2	8.5	7.3	5.3	3.4	1.6	1.0	50.8
<b>CONTRA COSTA</b>													
Brentwood	1.0	1.5	2.9	4.5	6.1	7.1	7.9	6.7	5.2	3.2	1.4	0.7	48.3
Concord	1.1	1.4	2.4	4.0	5.5	5.9	7.0	6.0	4.8	3.2	1.3	0.7	43.4
Courtland	0.9	1.5	2.9	4.4	6.1	6.9	7.9	6.7	5.3	3.2	1.4	0.7	48.0
Martinez	1.2	1.4	2.4	3.9	5.3	5.6	6.7	5.6	4.7	3.1	1.2	0.7	41.8
Moraga	1.2	1.5	3.4	4.2	5.5	6.1	6.7	5.9	4.6	3.2	1.6	1.0	44.9
Pittsburg	1.0	1.5	2.8	4.1	5.6	6.4	7.4	6.4	5.0	3.2	1.3	0.7	45.4
Walnut Creek	0.8	1.5	2.9	4.4	5.6	6.7	7.4	6.4	4.7	3.3	1.5	1.0	46.2
<b>DEL NORTE</b>													
Crescent City	0.5	0.9	2.0	3.0	3.7	3.5	4.3	3.7	3.0	2.0	0.9	0.5	27.7
<b>EL DORADO</b>													
Camino	0.9	1.7	2.5	3.9	5.9	7.2	7.8	6.8	5.1	3.1	1.5	0.9	47.3
<b>FRESNO</b>													
Clovis	1.0	1.5	3.2	4.8	6.4	7.7	8.5	7.3	5.3	3.4	1.4	0.7	51.4
Coalinga	1.2	1.7	3.1	4.6	6.2	7.2	8.5	7.3	5.3	3.4	1.6	0.7	50.9
Firebaugh	1.0	1.8	3.7	5.7	7.3	8.1	8.2	7.2	5.5	3.9	2.0	1.1	55.4
FivePoints	1.3	2.0	4.0	6.1	7.7	8.5	8.7	8.0	6.2	4.5	2.4	1.2	60.4
Fresno	0.9	1.7	3.3	4.8	6.7	7.8	8.4	7.1	5.2	3.2	1.4	0.6	51.1
Fresno State	0.9	1.6	3.2	5.2	7.0	8.0	8.7	7.6	5.4	3.6	1.7	0.9	53.7
Friant	1.2	1.5	3.1	4.7	6.4	7.7	8.5	7.3	5.3	3.4	1.4	0.7	51.3
Kerman	0.9	1.5	3.2	4.8	6.6	7.7	8.4	7.2	5.3	3.4	1.4	0.7	51.2
Kingsburg	1.0	1.5	3.4	4.8	6.6	7.7	8.4	7.2	5.3	3.4	1.4	0.7	51.6
Mendota	1.5	2.5	4.6	6.2	7.9	8.6	8.8	7.5	5.9	4.5	2.4	1.5	61.7
Orange Cove	1.2	1.9	3.5	4.7	7.4	8.5	8.9	7.9	5.9	3.7	1.8	1.2	56.7
Panoche	1.1	2.0	4.0	5.6	7.8	8.5	8.3	7.3	5.6	3.9	1.8	1.2	57.2
Parlier	1.0	1.9	3.6	5.2	6.8	7.6	8.1	7.0	5.1	3.4	1.7	0.9	52.0

**Appendix A - Reference Evapotranspiration (ET<sub>o</sub>) Table\***

County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ET <sub>o</sub>
<b>FRESNO</b>													
Reedley	1.1	1.5	3.2	4.7	6.4	7.7	8.5	7.3	5.3	3.4	1.4	0.7	51.3
Westlands	0.9	1.7	3.8	6.3	8.0	8.6	8.6	7.8	5.9	4.3	2.1	1.1	58.8
<b>GLENN</b>													
Orland	1.1	1.8	3.4	5.0	6.4	7.5	7.9	6.7	5.3	3.9	1.8	1.4	52.1
Willows	1.2	1.7	2.9	4.7	6.1	7.2	8.5	7.3	5.3	3.6	1.7	1.0	51.3
<b>HUMBOLDT</b>													
Eureka	0.5	1.1	2.0	3.0	3.7	3.7	3.7	3.7	3.0	2.0	0.9	0.5	27.5
Ferndale	0.5	1.1	2.0	3.0	3.7	3.7	3.7	3.7	3.0	2.0	0.9	0.5	27.5
Garberville	0.6	1.2	2.2	3.1	4.5	5.0	5.5	4.9	3.8	2.4	1.0	0.7	34.9
Hoopa	0.5	1.1	2.1	3.0	4.4	5.4	6.1	5.1	3.8	2.4	0.9	0.7	35.6
<b>IMPERIAL</b>													
Brawley	2.8	3.8	5.9	8.0	10.4	11.5	11.7	10.0	8.4	6.2	3.5	2.1	84.2
Calipatria/Mulberry	2.4	3.2	5.1	6.8	8.6	9.2	9.2	8.6	7.0	5.2	3.1	2.3	70.7
El Centro	2.7	3.5	5.6	7.9	10.1	11.1	11.6	9.5	8.3	6.1	3.3	2.0	81.7
Holtville	2.8	3.8	5.9	7.9	10.4	11.6	12.0	10.0	8.6	6.2	3.5	2.1	84.7
Meloland	2.5	3.2	5.5	7.5	8.9	9.2	9.0	8.5	6.8	5.3	3.1	2.2	71.6
Palo Verde II	2.5	3.3	5.7	6.9	8.5	8.9	8.6	7.9	6.2	4.5	2.9	2.3	68.2
Seeley	2.7	3.5	5.9	7.7	9.7	10.1	9.3	8.3	6.9	5.5	3.4	2.2	75.4
Westmoreland	2.4	3.3	5.3	6.9	8.7	9.6	9.6	8.7	6.9	5.0	3.0	2.2	71.4
Yuma	2.5	3.4	5.3	6.9	8.7	9.6	9.6	8.7	6.9	5.0	3.0	2.2	71.6
<b>INYO</b>													
Bishop	1.7	2.7	4.8	6.7	8.2	10.9	7.4	9.6	7.4	4.8	2.5	1.6	68.3
Death Valley Jct	2.2	3.3	5.4	7.7	9.8	11.1	11.4	10.1	8.3	5.4	2.9	1.7	79.1
Independence	1.7	2.7	3.4	6.6	8.5	9.5	9.8	8.5	7.1	3.9	2.0	1.5	65.2
Lower Haiwee Res.	1.8	2.7	4.4	7.1	8.5	9.5	9.8	8.5	7.1	4.2	2.6	1.5	67.6
Oasis	2.7	2.8	5.9	8.0	10.4	11.7	11.6	10.0	8.4	6.2	3.4	2.1	83.1
<b>KERN</b>													
Arvin	1.2	1.8	3.5	4.7	6.6	7.4	8.1	7.3	5.3	3.4	1.7	1.0	51.9
Bakersfield	1.0	1.8	3.5	4.7	6.6	7.7	8.5	7.3	5.3	3.5	1.6	0.9	52.4
Bakersfield/Bonanza	1.2	2.2	3.7	5.7	7.4	8.2	8.7	7.8	5.7	4.0	2.1	1.2	57.9
Bakersfield/Greenlee	1.2	2.2	3.7	5.7	7.4	8.2	8.7	7.8	5.7	4.0	2.1	1.2	57.9
Belridge	1.4	2.2	4.1	5.5	7.7	8.5	8.6	7.8	6.0	3.8	2.0	1.5	59.2
Blackwells Corner	1.4	2.1	3.8	5.4	7.0	7.8	8.5	7.7	5.8	3.9	1.9	1.2	56.6
Buttonwillow	1.0	1.8	3.2	4.7	6.6	7.7	8.5	7.3	5.4	3.4	1.5	0.9	52.0
China Lake	2.1	3.2	5.3	7.7	9.2	10.0	11.0	9.8	7.3	4.9	2.7	1.7	74.8
Delano	0.9	1.8	3.4	4.7	6.6	7.7	8.5	7.3	5.4	3.4	1.4	0.7	52.0
Famoso	1.3	1.9	3.5	4.8	6.7	7.6	8.0	7.3	5.5	3.5	1.7	1.3	53.1
Grapevine	1.3	1.8	3.1	4.4	5.6	6.8	7.6	6.8	5.9	3.4	1.9	1.0	49.5
Inyokern	2.0	3.1	4.9	7.3	8.5	9.7	11.0	9.4	7.1	5.1	2.6	1.7	72.4
Isabella Dam	1.2	1.4	2.8	4.4	5.8	7.3	7.9	7.0	5.0	3.2	1.7	0.9	48.4
Lamont	1.3	2.4	4.4	4.6	6.5	7.0	8.8	7.6	5.7	3.7	1.6	0.8	54.4
Lost Hills	1.6	2.2	3.7	5.1	6.8	7.8	8.7	7.8	5.7	4.0	2.1	1.6	57.1
McFarland/Kern	1.2	2.1	3.7	5.6	7.3	8.0	8.3	7.4	5.6	4.1	2.0	1.2	56.5
Shafter	1.0	1.7	3.4	5.0	6.6	7.7	8.3	7.3	5.4	3.4	1.5	0.9	52.1
Taft	1.3	1.8	3.1	4.3	6.2	7.3	8.5	7.3	5.4	3.4	1.7	1.0	51.2
Tehachapi	1.4	1.8	3.2	5.0	6.1	7.7	7.9	7.3	5.9	3.4	2.1	1.2	52.9
<b>KINGS</b>													
Caruthers	1.6	2.5	4.0	5.7	7.8	8.7	9.3	8.4	6.3	4.4	2.4	1.6	62.7

Appendix A - Reference Evapotranspiration (ETo) Table\*

County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ETo
<b>KINGS</b>													
Corcoran	1.6	2.2	3.7	5.1	6.8	7.8	8.7	7.8	5.7	4.0	2.1	1.6	57.1
Hanford	0.9	1.5	3.4	5.0	6.6	7.7	8.3	7.2	5.4	3.4	1.4	0.7	51.5
Kettleman	1.1	2.0	4.0	6.0	7.5	8.5	9.1	8.2	6.1	4.5	2.2	1.1	60.2
Lemoore	0.9	1.5	3.4	5.0	6.6	7.7	8.3	7.3	5.4	3.4	1.4	0.7	51.7
Stratford	0.9	1.9	3.9	6.1	7.8	8.6	8.8	7.7	5.9	4.1	2.1	1.0	58.7
<b>LAKE</b>													
Lakeport	1.1	1.3	2.6	3.5	5.1	6.0	7.3	6.1	4.7	2.9	1.2	0.9	42.8
Lower Lake	1.2	1.4	2.7	4.5	5.3	6.3	7.4	6.4	5.0	3.1	1.3	0.9	45.4
<b>LASSEN</b>													
Buntingville	1.0	1.7	3.5	4.9	6.2	7.3	8.4	7.5	5.4	3.4	1.5	0.9	51.8
Ravendale	0.6	1.1	2.3	4.1	5.6	6.7	7.9	7.3	4.7	2.8	1.2	0.5	44.9
Susanville	0.7	1.0	2.2	4.1	5.6	6.5	7.8	7.0	4.6	2.8	1.2	0.5	44.0
<b>LOS ANGELES</b>													
Burbank	2.1	2.8	3.7	4.7	5.1	6.0	6.6	6.7	5.4	4.0	2.6	2.0	51.7
Claremont	2.0	2.3	3.4	4.6	5.0	6.0	7.0	7.0	5.3	4.0	2.7	2.1	51.3
El Dorado	1.7	2.2	3.6	4.8	5.1	5.7	5.9	5.9	4.4	3.2	2.2	1.7	46.3
Glendale	2.0	2.2	3.3	3.8	4.7	4.8	5.7	5.6	4.3	3.3	2.2	1.8	43.7
Glendora	2.0	2.5	3.6	4.9	5.4	6.1	7.3	6.8	5.7	4.2	2.6	2.0	53.1
Gorman	1.6	2.2	3.4	4.6	5.5	7.4	7.7	7.1	5.9	3.6	2.4	1.1	52.4
Hollywood Hills	2.1	2.2	3.8	5.4	6.0	6.5	6.7	6.4	5.2	3.7	2.8	2.1	52.8
Lancaster	2.1	3.0	4.6	5.9	8.5	9.7	11.0	9.8	7.3	4.6	2.8	1.7	71.1
Long Beach	1.8	2.1	3.3	3.9	4.5	4.3	5.3	4.7	3.7	2.8	1.8	1.5	39.7
Los Angeles	2.2	2.7	3.7	4.7	5.5	5.8	6.2	5.9	5.0	3.9	2.6	1.9	50.1
Monrovia	2.2	2.3	3.8	4.3	5.5	5.9	6.9	6.4	5.1	3.2	2.5	2.0	50.2
Palmdale	2.0	2.6	4.6	6.2	7.3	8.9	9.8	9.0	6.5	4.7	2.7	2.1	66.2
Pasadena	2.1	2.7	3.7	4.7	5.1	6.0	7.1	6.7	5.6	4.2	2.6	2.0	52.3
Pearblossom	1.7	2.4	3.7	4.7	7.3	7.7	9.9	7.9	6.4	4.0	2.6	1.6	59.9
Pomona	1.7	2.0	3.4	4.5	5.0	5.8	6.5	6.4	4.7	3.5	2.3	1.7	47.5
Redondo Beach	2.2	2.4	3.3	3.8	4.5	4.7	5.4	4.8	4.4	2.8	2.4	2.0	42.6
San Fernando	2.0	2.7	3.5	4.6	5.5	5.9	7.3	6.7	5.3	3.9	2.6	2.0	52.0
Santa Clarita	2.8	2.8	4.1	5.6	6.0	6.8	7.6	7.8	5.8	5.2	3.7	3.2	61.5
Santa Monica	1.8	2.1	3.3	4.5	4.7	5.0	5.4	5.4	3.9	3.4	2.4	2.2	44.2
<b>MADERA</b>													
Chowchilla	1.0	1.4	3.2	4.7	6.6	7.8	8.5	7.3	5.3	3.4	1.4	0.7	51.4
Madera	0.9	1.4	3.2	4.8	6.6	7.8	8.5	7.3	5.3	3.4	1.4	0.7	51.5
Raymond	1.2	1.5	3.0	4.6	6.1	7.6	8.4	7.3	5.2	3.4	1.4	0.7	50.5
<b>MARIN</b>													
Black Point	1.1	1.7	3.0	4.2	5.2	6.2	6.6	5.8	4.3	2.8	1.3	0.9	43.0
Novato	1.3	1.5	2.4	3.5	4.4	6.0	5.9	5.4	4.4	2.8	1.4	0.7	39.8
Point San Pedro	1.1	1.7	3.0	4.2	5.2	6.2	6.6	5.8	4.3	2.8	1.3	0.9	43.0
San Rafael	1.2	1.3	2.4	3.3	4.0	4.8	4.8	4.9	4.3	2.7	1.3	0.7	35.8
<b>MARIPOSA</b>													
Coulterville	1.1	1.5	2.8	4.4	5.9	7.3	8.1	7.0	5.3	3.4	1.4	0.7	48.8
Mariposa	1.1	1.5	2.8	4.4	5.9	7.4	8.2	7.1	5.0	3.4	1.4	0.7	49.0
Yosemite Village	0.7	1.0	2.3	3.7	5.1	6.5	7.1	6.1	4.4	2.9	1.1	0.6	41.4
<b>MENDOCINO</b>													
Fort Bragg	0.9	1.3	2.2	3.0	3.7	3.5	3.7	3.7	3.0	2.3	1.2	0.7	29.0
Hopland	1.1	1.3	2.6	3.4	5.0	5.9	6.5	5.7	4.5	2.8	1.3	0.7	40.9

**Appendix A - Reference Evapotranspiration (ET<sub>o</sub>) Table\***

County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ET <sub>o</sub>
<b>MENDOCINO</b>													
Point Arena	1.0	1.3	2.3	3.0	3.7	3.9	3.7	3.7	3.0	2.3	1.2	0.7	29.6
Sanel Valley	1.0	1.6	3.0	4.6	6.0	7.0	8.0	7.0	5.2	3.4	1.4	0.9	49.1
Ukiah	1.0	1.3	2.6	3.3	5.0	5.8	6.7	5.9	4.5	2.8	1.3	0.7	40.9
<b>MERCED</b>													
Kesterson	0.9	1.7	3.4	5.5	7.3	8.2	8.6	7.4	5.5	3.8	1.8	0.9	55.1
Los Banos	1.0	1.5	3.2	4.7	6.1	7.4	8.2	7.0	5.3	3.4	1.4	0.7	50.0
Merced	1.0	1.5	3.2	4.7	6.6	7.9	8.5	7.2	5.3	3.4	1.4	0.7	51.5
<b>MODOC</b>													
Modoc/Alturas	0.9	1.4	2.8	3.7	5.1	6.2	7.5	6.6	4.6	2.8	1.2	0.7	43.2
<b>MONO</b>													
Bridgeport	0.7	0.9	2.2	3.8	5.5	6.6	7.4	6.7	4.7	2.7	1.2	0.5	43.0
<b>MONTEREY</b>													
Arroyo Seco	1.5	2.0	3.7	5.4	6.3	7.3	7.2	6.7	5.0	3.9	2.0	1.6	52.6
Castroville	1.4	1.7	3.0	4.2	4.6	4.8	4.0	3.8	3.0	2.6	1.6	1.4	36.2
Gonzales	1.3	1.7	3.4	4.7	5.4	6.3	6.3	5.9	4.4	3.4	1.9	1.3	45.7
Greenfield	1.8	2.2	3.4	4.8	5.6	6.3	6.5	6.2	4.8	3.7	2.4	1.8	49.5
King City	1.7	2.0	3.4	4.4	4.4	5.6	6.1	6.7	6.5	5.2	2.2	1.3	49.6
King City-Oasis Rd.	1.4	1.9	3.6	5.3	6.5	7.3	7.4	6.8	5.1	4.0	2.0	1.5	52.7
Long Valley	1.5	1.9	3.2	4.1	5.8	6.5	7.3	6.7	5.3	3.6	2.0	1.2	49.1
Monterey	1.7	1.8	2.7	3.5	4.0	4.1	4.3	4.2	3.5	2.8	1.9	1.5	36.0
Pajaro	1.8	2.2	3.7	4.8	5.3	5.7	5.6	5.3	4.3	3.4	2.4	1.8	46.1
Salinas	1.6	1.9	2.7	3.8	4.8	4.7	5.0	4.5	4.0	2.9	1.9	1.3	39.1
Salinas North	1.2	1.5	2.9	4.1	4.6	5.2	4.5	4.3	3.2	2.8	1.5	1.2	36.9
San Ardo	1.0	1.7	3.1	4.5	5.9	7.2	8.1	7.1	5.1	3.1	1.5	1.0	49.0
San Juan	1.8	2.1	3.4	4.6	5.3	5.7	5.5	4.9	3.8	3.2	2.2	1.9	44.2
Soledad	1.7	2.0	3.4	4.4	5.5	5.4	6.5	6.2	5.2	3.7	2.2	1.5	47.7
<b>NAPA</b>													
Angwin	1.8	1.9	3.2	4.7	5.8	7.3	8.1	7.1	5.5	4.5	2.9	2.1	54.9
Carneros	0.8	1.5	3.1	4.6	5.5	6.6	6.9	6.2	4.7	3.5	1.4	1.0	45.8
Oakville	1.0	1.5	2.9	4.7	5.8	6.9	7.2	6.4	4.9	3.5	1.6	1.2	47.7
St Helena	1.2	1.5	2.8	3.9	5.1	6.1	7.0	6.2	4.8	3.1	1.4	0.9	44.1
Yountville	1.3	1.7	2.8	3.9	5.1	6.0	7.1	6.1	4.8	3.1	1.5	0.9	44.3
<b>NEVADA</b>													
Grass Valley	1.1	1.5	2.6	4.0	5.7	7.1	7.9	7.1	5.3	3.2	1.5	0.9	48.0
Nevada City	1.1	1.5	2.6	3.9	5.8	6.9	7.9	7.0	5.3	3.2	1.4	0.9	47.4
<b>ORANGE</b>													
Irvine	2.2	2.5	3.7	4.7	5.2	5.9	6.3	6.2	4.6	3.7	2.6	2.3	49.6
Laguna Beach	2.2	2.7	3.4	3.8	4.6	4.6	4.9	4.9	4.4	3.4	2.4	2.0	43.2
Santa Ana	2.2	2.7	3.7	4.5	4.6	5.4	6.2	6.1	4.7	3.7	2.5	2.0	48.2
<b>PLACER</b>													
Auburn	1.2	1.7	2.8	4.4	6.1	7.4	8.3	7.3	5.4	3.4	1.6	1.0	50.6
Blue Canyon	0.7	1.1	2.1	3.4	4.8	6.0	7.2	6.1	4.6	2.9	0.9	0.6	40.5
Colfax	1.1	1.5	2.6	4.0	5.8	7.1	7.9	7.0	5.3	3.2	1.4	0.9	47.9
Roseville	1.1	1.7	3.1	4.7	6.2	7.7	8.5	7.3	5.6	3.7	1.7	1.0	52.2
Soda Springs	0.7	0.7	1.8	3.0	4.3	5.3	6.2	5.5	4.1	2.5	0.7	0.7	35.4
Tahoe City	0.7	0.7	1.7	3.0	4.3	5.4	6.1	5.6	4.1	2.4	0.8	0.6	35.5
Truckee	0.7	0.7	1.7	3.2	4.4	5.4	6.4	5.7	4.1	2.4	0.8	0.6	36.2

## Appendix A - Reference Evapotranspiration (ETo) Table\*

County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ETo
<b>PLUMAS</b>													
Portola	0.7	0.9	1.9	3.5	4.9	5.9	7.3	5.9	4.3	2.7	0.9	0.5	39.4
Quincy	0.7	0.9	2.2	3.5	4.9	5.9	7.3	5.9	4.4	2.8	1.2	0.5	40.2
<b>RIVERSIDE</b>													
Beaumont	2.0	2.3	3.4	4.4	6.1	7.1	7.6	7.9	6.0	3.9	2.6	1.7	55.0
Blythe	2.4	3.3	5.3	6.9	8.7	9.6	9.6	8.7	6.9	5.0	3.0	2.2	71.4
Cathedral City	1.6	2.2	3.7	5.1	6.8	7.8	8.7	7.8	5.7	4.0	2.1	1.6	57.1
Coachella	2.9	4.4	6.2	8.4	10.5	11.9	12.3	10.1	8.9	6.2	3.8	2.4	88.1
Desert Center	2.9	4.1	6.4	8.5	11.0	12.1	12.2	11.1	9.0	6.4	3.9	2.6	90.0
Elsinore	2.1	2.8	3.9	4.4	5.9	7.1	7.6	7.0	5.8	3.9	2.6	1.9	55.0
Indio	3.1	3.6	6.5	8.3	10.5	11.0	10.8	9.7	8.3	5.9	3.7	2.7	83.9
La Quinta	2.4	2.8	5.2	6.5	8.3	8.7	8.5	7.9	6.5	4.5	2.7	2.2	66.2
Mecca	2.6	3.3	5.7	7.2	8.6	9.0	8.8	8.2	6.8	5.0	3.2	2.4	70.8
Oasis	2.9	3.3	5.3	6.1	8.5	8.9	8.7	7.9	6.9	4.8	2.9	2.3	68.4
Palm Desert	2.5	3.4	5.3	6.9	8.7	9.6	9.6	8.7	6.9	5.0	3.0	2.2	71.6
Palm Springs	2.0	2.9	4.9	7.2	8.3	8.5	11.6	8.3	7.2	5.9	2.7	1.7	71.1
Rancho California	1.8	2.2	3.4	4.8	5.6	6.3	6.5	6.2	4.8	3.7	2.4	1.8	49.5
Rancho Mirage	2.4	3.3	5.3	6.9	8.7	9.6	9.6	8.7	6.9	5.0	3.0	2.2	71.4
Ripley	2.7	3.3	5.6	7.2	8.7	8.7	8.4	7.6	6.2	4.6	2.8	2.2	67.8
Salton Sea North	2.5	3.3	5.5	7.2	8.8	9.3	9.2	8.5	6.8	5.2	3.1	2.3	71.7
Temecula East II	2.3	2.4	4.1	4.9	6.4	7.0	7.8	7.4	5.7	4.1	2.6	2.2	56.7
Thermal	2.4	3.3	5.5	7.6	9.1	9.6	9.3	8.6	7.1	5.2	3.1	2.1	72.8
Riverside UC	2.5	2.9	4.2	5.3	5.9	6.6	7.2	6.9	5.4	4.1	2.9	2.6	56.4
Winchester	2.3	2.4	4.1	4.9	6.4	6.9	7.7	7.5	6.0	3.9	2.6	2.1	56.8
<b>SACRAMENTO</b>													
Fair Oaks	1.0	1.6	3.4	4.1	6.5	7.5	8.1	7.1	5.2	3.4	1.5	1.0	50.5
Sacramento	1.0	1.8	3.2	4.7	6.4	7.7	8.4	7.2	5.4	3.7	1.7	0.9	51.9
Twitchell Island	1.2	1.8	3.9	5.3	7.4	8.8	9.1	7.8	5.9	3.8	1.7	1.2	57.9
<b>SAN BENITO</b>													
Hollister	1.5	1.8	3.1	4.3	5.5	5.7	6.4	5.9	5.0	3.5	1.7	1.1	45.1
San Benito	1.2	1.6	3.1	4.6	5.6	6.4	6.9	6.5	4.8	3.7	1.7	1.2	47.2
San Juan Valley	1.4	1.8	3.4	4.5	6.0	6.7	7.1	6.4	5.0	3.5	1.8	1.4	49.1
<b>SAN BERNARDINO</b>													
Baker	2.7	3.9	6.1	8.3	10.4	11.8	12.2	11.0	8.9	6.1	3.3	2.1	86.6
Barstow NE	2.2	2.9	5.3	6.9	9.0	10.1	9.9	8.9	6.8	4.8	2.7	2.1	71.7
Big Bear Lake	1.8	2.6	4.6	6.0	7.0	7.6	8.1	7.4	5.4	4.1	2.4	1.8	58.6
Chino	2.1	2.9	3.9	4.5	5.7	6.5	7.3	7.1	5.9	4.2	2.6	2.0	54.6
Crestline	1.5	1.9	3.3	4.4	5.5	6.6	7.8	7.1	5.4	3.5	2.2	1.6	50.8
Lake Arrowhead	1.8	2.6	4.6	6.0	7.0	7.6	8.1	7.4	5.4	4.1	2.4	1.8	58.6
Lucerne Valley	2.2	2.9	5.1	6.5	9.1	11.0	11.4	9.9	7.4	5.0	3.0	1.8	75.3
Needles	3.2	4.2	6.6	8.9	11.0	12.4	12.8	11.0	8.9	6.6	4.0	2.7	92.1
Newberry Springs	2.1	2.9	5.3	8.4	9.8	10.9	11.1	9.9	7.6	5.2	3.1	2.0	78.2
San Bernardino	2.0	2.7	3.8	4.6	5.7	6.9	7.9	7.4	5.9	4.2	2.6	2.0	55.6
Twentynine Palms	2.6	3.6	5.9	7.9	10.1	11.2	11.2	10.3	8.6	5.9	3.4	2.2	82.9
Victorville	2.0	2.6	4.6	6.2	7.3	8.9	9.8	9.0	6.5	4.7	2.7	2.1	66.2
<b>SAN DIEGO</b>													
Chula Vista	2.2	2.7	3.4	3.8	4.9	4.7	5.5	4.9	4.5	3.4	2.4	2.0	44.2
Escondido SPV	2.4	2.6	3.9	4.7	5.9	6.5	7.1	6.7	5.3	3.9	2.8	2.3	54.2
Miramar	2.3	2.5	3.7	4.1	5.1	5.4	6.1	5.8	4.5	3.3	2.4	2.1	47.1

**Appendix A - Reference Evapotranspiration (ET<sub>o</sub>) Table\***

County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ET <sub>o</sub>
<b>SAN DIEGO</b>													
Oceanside	2.2	2.7	3.4	3.7	4.9	4.6	4.6	5.1	4.1	3.3	2.4	2.0	42.9
Otay Lake	2.3	2.7	3.9	4.6	5.6	5.9	6.2	6.1	4.8	3.7	2.6	2.2	50.4
Pine Valley	1.5	2.4	3.8	5.1	6.0	7.0	7.8	7.3	6.0	4.0	2.2	1.7	54.8
Ramona	2.1	2.1	3.4	4.6	5.2	6.3	6.7	6.8	5.3	4.1	2.8	2.1	51.6
San Diego	2.1	2.4	3.4	4.6	5.1	5.3	5.7	5.6	4.3	3.6	2.4	2.0	46.5
Santee	2.1	2.7	3.7	4.5	5.5	6.1	6.6	6.2	5.4	3.8	2.6	2.0	51.1
Torrey Pines	2.2	2.3	3.4	3.9	4.0	4.1	4.6	4.7	3.8	2.8	2.0	2.0	39.8
Warner Springs	1.6	2.7	3.7	4.7	5.7	7.6	8.3	7.7	6.3	4.0	2.5	1.3	56.0
<b>SAN FRANCISCO</b>													
San Francisco	1.5	1.3	2.4	3.0	3.7	4.6	4.9	4.8	4.1	2.8	1.3	0.7	35.1
<b>SAN JOAQUIN</b>													
Farmington	1.5	1.5	2.9	4.7	6.2	7.6	8.1	6.8	5.3	3.3	1.4	0.7	50.0
Lodi West	1.0	1.6	3.3	4.3	6.3	6.9	7.3	6.4	4.5	3.0	1.4	0.8	46.7
Manteca	0.9	1.7	3.4	5.0	6.5	7.5	8.0	7.1	5.2	3.3	1.6	0.9	51.2
Stockton	0.8	1.5	2.9	4.7	6.2	7.4	8.1	6.8	5.3	3.2	1.4	0.6	49.1
Tracy	1.0	1.5	2.9	4.5	6.1	7.3	7.9	6.7	5.3	3.2	1.3	0.7	48.5
<b>SAN LUIS OBISPO</b>													
Arroyo Grande	2.0	2.2	3.2	3.8	4.3	4.7	4.3	4.6	3.8	3.2	2.4	1.7	40.0
Atascadero	1.2	1.5	2.8	3.9	4.5	6.0	6.7	6.2	5.0	3.2	1.7	1.0	43.7
Morro Bay	2.0	2.2	3.1	3.5	4.3	4.5	4.6	4.6	3.8	3.5	2.1	1.7	39.9
Nipomo	2.2	2.5	3.8	5.1	5.7	6.2	6.4	6.1	4.9	4.1	2.9	2.3	52.1
Paso Robles	1.6	2.0	3.2	4.3	5.5	6.3	7.3	6.7	5.1	3.7	2.1	1.4	49.0
San Luis Obispo	2.0	2.2	3.2	4.1	4.9	5.3	4.6	5.5	4.4	3.5	2.4	1.7	43.8
San Miguel	1.6	2.0	3.2	4.3	5.0	6.4	7.4	6.8	5.1	3.7	2.1	1.4	49.0
San Simeon	2.0	2.0	2.9	3.5	4.2	4.4	4.6	4.3	3.5	3.1	2.0	1.7	38.1
<b>SAN MATEO</b>													
Hal Moon Bay	1.5	1.7	2.4	3.0	3.9	4.3	4.3	4.2	3.5	2.8	1.3	1.0	33.7
Redwood City	1.5	1.8	2.9	3.8	5.2	5.3	6.2	5.6	4.8	3.1	1.7	1.0	42.8
Woodside	1.8	2.2	3.4	4.8	5.6	6.3	6.5	6.2	4.8	3.7	2.4	1.8	49.5
<b>SANTA BARBARA</b>													
Betteravia	2.1	2.6	4.0	5.2	6.0	5.9	5.8	5.4	4.1	3.3	2.7	2.1	49.1
Carpenteria	2.0	2.4	3.2	3.9	4.8	5.2	5.5	5.7	4.5	3.4	2.4	2.0	44.9
Cuyama	2.1	2.4	3.8	5.4	6.9	7.9	8.5	7.7	5.9	4.5	2.6	2.0	59.7
Goleta	2.1	2.5	3.9	5.1	5.7	5.7	5.4	5.4	4.2	3.2	2.8	2.2	48.1
Goleta Foothills	2.3	2.6	3.7	5.4	5.3	5.6	5.5	5.7	4.5	3.9	2.8	2.3	49.6
Guadalupe	2.0	2.2	3.2	3.7	4.9	4.6	4.5	4.6	4.1	3.3	2.4	1.7	41.1
Lompoc	2.0	2.2	3.2	3.7	4.8	4.6	4.9	4.8	3.9	3.2	2.4	1.7	41.1
Los Alamos	1.8	2.0	3.2	4.1	4.9	5.3	5.7	5.5	4.4	3.7	2.4	1.6	44.6
Santa Barbara	2.0	2.5	3.2	3.8	4.6	5.1	5.5	4.5	3.4	2.4	1.8	1.8	40.6
Santa Maria	1.8	2.3	3.7	5.1	5.7	5.8	5.6	5.3	4.2	3.5	2.4	1.9	47.4
Santa Ynez	1.7	2.2	3.5	5.0	5.8	6.2	6.4	6.0	4.5	3.6	2.2	1.7	48.7
Sisquoc	2.1	2.5	3.8	4.1	6.1	6.3	6.4	5.8	4.7	3.4	2.3	1.8	49.2
Solvang	2.0	2.0	3.3	4.3	5.0	5.6	6.1	5.6	4.4	3.7	2.2	1.6	45.6
<b>SANTA CLARA</b>													
Gilroy	1.3	1.8	3.1	4.1	5.3	5.6	6.1	5.5	4.7	3.4	1.7	1.1	43.6
Los Gatos	1.5	1.8	2.8	3.9	5.0	5.6	6.2	5.5	4.7	3.2	1.7	1.1	42.9
Morgan Hill	1.5	1.8	3.4	4.2	6.3	7.0	7.1	6.0	5.1	3.7	1.9	1.4	49.5
Palo Alto	1.5	1.8	2.8	3.8	5.2	5.3	6.2	5.6	5.0	3.2	1.7	1.0	43.0

Appendix A - Reference Evapotranspiration (ET<sub>o</sub>) Table\*

County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ET <sub>o</sub>
<b>SANTA CLARA</b>													
San Jose	1.5	1.8	3.1	4.1	5.5	5.8	6.5	5.9	5.2	3.3	1.8	1.0	45.3
<b>SANTA CRUZ</b>													
De Laveaga	1.4	1.9	3.3	4.7	4.9	5.3	5.0	4.8	3.6	3.0	1.6	1.3	40.8
Green Valley Rd	1.2	1.8	3.2	4.5	4.6	5.4	5.2	5.0	3.7	3.1	1.6	1.3	40.6
Santa Cruz	1.5	1.8	2.6	3.5	4.3	4.4	4.8	4.4	3.8	2.8	1.7	1.2	36.6
Watsonville	1.5	1.8	2.7	3.7	4.6	4.5	4.9	4.2	4.0	2.9	1.8	1.2	37.7
Webb	1.8	2.2	3.7	4.8	5.3	5.7	5.6	5.3	4.3	3.4	2.4	1.8	46.2
<b>SHASTA</b>													
Burney	0.7	1.0	2.1	3.5	4.9	5.9	7.4	6.4	4.4	2.9	0.9	0.6	40.9
Fall River Mills	0.6	1.0	2.1	3.7	5.0	6.1	7.8	6.7	4.6	2.8	0.9	0.5	41.8
Glenburn	0.6	1.0	2.1	3.7	5.0	6.3	7.8	6.7	4.7	2.8	0.9	0.6	42.1
McArthur	0.7	1.4	2.9	4.2	5.6	6.9	8.2	7.2	5.0	3.0	1.1	0.6	46.8
Redding	1.2	1.4	2.6	4.1	5.6	7.1	8.5	7.3	5.3	3.2	1.4	0.9	48.8
<b>SIERRA</b>													
Downieville	0.7	1.0	2.3	3.5	5.0	6.0	7.4	6.2	4.7	2.8	0.9	0.6	41.3
Sierraville	0.7	1.1	2.2	3.2	4.5	5.9	7.3	6.4	4.3	2.6	0.9	0.5	39.6
<b>SISKIYOU</b>													
Happy Camp	0.5	0.9	2.0	3.0	4.3	5.2	6.1	5.3	4.1	2.4	0.9	0.5	35.1
MacDoel	1.0	1.7	3.1	4.5	5.9	7.2	8.1	7.1	5.1	3.1	1.5	1.0	49.0
Mt Shasta	0.5	0.9	2.0	3.0	4.5	5.3	6.7	5.7	4.0	2.2	0.7	0.5	36.0
Tule lake FS	0.7	1.3	2.7	4.0	5.4	6.3	7.1	6.4	4.7	2.8	1.0	0.6	42.9
Weed	0.5	0.9	2.0	2.5	4.5	5.3	6.7	5.5	3.7	2.0	0.9	0.5	34.9
Yreka	0.6	0.9	2.1	3.0	4.9	5.8	7.3	6.5	4.3	2.5	0.9	0.5	39.2
<b>SOLANO</b>													
Benicia	1.3	1.4	2.7	3.8	4.9	5.0	6.4	5.5	4.4	2.9	1.2	0.7	40.3
Dixon	0.7	1.4	3.2	5.2	6.3	7.6	8.2	7.2	5.5	4.3	1.6	1.1	52.1
Fairfield	1.1	1.7	2.8	4.0	5.5	6.1	7.8	6.0	4.8	3.1	1.4	0.9	45.2
Hastings Tract	1.6	2.2	3.7	5.1	6.8	7.8	8.7	7.8	5.7	4.0	2.1	1.6	57.1
Putah Creek	1.0	1.6	3.2	4.9	6.1	7.3	7.9	7.0	5.3	3.8	1.8	1.2	51.0
Rio Vista	0.9	1.7	2.8	4.4	5.9	6.7	7.9	6.5	5.1	3.2	1.3	0.7	47.0
Suisun Valley	0.6	1.3	3.0	4.7	5.8	7.0	7.7	6.8	5.3	3.8	1.4	0.9	48.3
Winters	0.9	1.7	3.3	5.0	6.4	7.5	7.9	7.0	5.2	3.5	1.6	1.0	51.0
<b>SONOMA</b>													
Bennett Valley	1.1	1.7	3.2	4.1	5.5	6.5	6.6	5.7	4.5	3.1	1.5	0.9	44.4
Cloverdale	1.1	1.4	2.6	3.4	5.0	5.9	6.2	5.6	4.5	2.8	1.4	0.7	40.7
Fort Ross	1.2	1.4	2.2	3.0	3.7	4.5	4.2	4.3	3.4	2.4	1.2	0.5	31.9
Healdsburg	1.2	1.5	2.4	3.5	5.0	5.9	6.1	5.6	4.5	2.8	1.4	0.7	40.8
Lincoln	1.2	1.7	2.8	4.7	6.1	7.4	8.4	7.3	5.4	3.7	1.9	1.2	51.9
Petaluma	1.2	1.5	2.8	3.7	4.6	5.6	4.6	5.7	4.5	2.9	1.4	0.9	39.6
Santa Rosa	1.2	1.7	2.8	3.7	5.0	6.0	6.1	5.9	4.5	2.9	1.5	0.7	42.0
Valley of the Moon	1.0	1.6	3.0	4.5	5.6	6.6	7.1	6.3	4.7	3.3	1.5	1.0	46.1
Windsor	0.9	1.6	3.0	4.5	5.5	6.5	6.5	5.9	4.4	3.2	1.4	1.0	44.2
<b>STANISLAUS</b>													
Denair	1.0	1.9	3.6	4.7	7.0	7.9	8.0	6.1	5.3	3.4	1.5	1.0	51.4
La Grange	1.2	1.5	3.1	4.7	6.2	7.7	8.5	7.3	5.3	3.4	1.4	0.7	51.2
Modesto	0.9	1.4	3.2	4.7	6.4	7.7	8.1	6.8	5.0	3.4	1.4	0.7	49.7
Newman	1.0	1.5	3.2	4.6	6.2	7.4	8.1	6.7	5.0	3.4	1.4	0.7	49.3
Oakdale	1.2	1.5	3.2	4.7	6.2	7.7	8.1	7.1	5.1	3.4	1.4	0.7	50.3

<b>Appendix A - Reference Evapotranspiration (ETo) Table*</b>													
<b>County and City</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Annual ETo</b>
<b>STANISLAUS</b>													
Patterson	1.3	2.1	4.2	5.4	7.9	8.6	8.2	6.6	5.8	4.0	1.9	1.3	57.3
Turlock	0.9	1.5	3.2	4.7	6.5	7.7	8.2	7.0	5.1	3.4	1.4	0.7	50.2
<b>SUTTER</b>													
Nicolaus	0.9	1.6	3.2	4.9	6.3	7.5	8.0	6.9	5.2	3.4	1.5	0.9	50.2
Yuba City	1.3	2.1	2.8	4.4	5.7	7.2	7.1	6.1	4.7	3.2	1.2	0.9	46.7
<b>TEHAMA</b>													
Corning	1.2	1.8	2.9	4.5	6.1	7.3	8.1	7.2	5.3	3.7	1.7	1.1	50.7
Gerber	1.0	1.8	3.5	5.0	6.6	7.9	8.7	7.4	5.8	4.1	1.8	1.1	54.7
Gerber Dryland	0.9	1.6	3.2	4.7	6.7	8.4	9.0	7.9	6.0	4.2	2.0	1.0	55.5
Red Bluff	1.2	1.8	2.9	4.4	5.9	7.4	8.5	7.3	5.4	3.5	1.7	1.0	51.1
<b>TRINITY</b>													
Hay Fork	0.5	1.1	2.3	3.5	4.9	5.9	7.0	6.0	4.5	2.8	0.9	0.7	40.1
Weaverville	0.6	1.1	2.2	3.3	4.9	5.9	7.3	6.0	4.4	2.7	0.9	0.7	40.0
<b>TULARE</b>													
Alpaugh	0.9	1.7	3.4	4.8	6.6	7.7	8.2	7.3	5.4	3.4	1.4	0.7	51.6
Badger	1.0	1.3	2.7	4.1	6.0	7.3	7.7	7.0	4.8	3.3	1.4	0.7	47.3
Delano	1.1	1.9	4.0	4.9	7.2	7.9	8.1	7.3	5.4	3.2	1.5	1.2	53.6
Dinuba	1.1	1.5	3.2	4.7	6.2	7.7	8.5	7.3	5.3	3.4	1.4	0.7	51.2
Lindcove	0.9	1.6	3.0	4.8	6.5	7.6	8.1	7.2	5.2	3.4	1.6	0.9	50.6
Porterville	1.2	1.8	3.4	4.7	6.6	7.7	8.5	7.3	5.3	3.4	1.4	0.7	52.1
Visalia	0.9	1.7	3.3	5.1	6.8	7.7	7.9	6.9	4.9	3.2	1.5	0.8	50.7
<b>TUOLUMNE</b>													
Groveland	1.1	1.5	2.8	4.1	5.7	7.2	7.9	6.6	5.1	3.3	1.4	0.7	47.5
Sonora	1.1	1.5	2.8	4.1	5.8	7.2	7.9	6.7	5.1	3.2	1.4	0.7	47.6
<b>VENTURA</b>													
Camarillo	2.2	2.5	3.7	4.3	5.0	5.2	5.9	5.4	4.2	3.0	2.5	2.1	46.1
Oxnard	2.2	2.5	3.2	3.7	4.4	4.6	5.4	4.8	4.0	3.3	2.4	2.0	42.3
Piru	2.8	2.8	4.1	5.6	6.0	6.8	7.6	7.8	5.8	5.2	3.7	3.2	61.5
Port Hueneme	2.0	2.3	3.3	4.6	4.9	4.9	4.9	5.0	3.7	3.2	2.5	2.2	43.5
Thousand Oaks	2.2	2.6	3.4	4.5	5.4	5.9	6.7	6.4	5.4	3.9	2.6	2.0	51.0
Ventura	2.2	2.6	3.2	3.8	4.6	4.7	5.5	4.9	4.1	3.4	2.5	2.0	43.5
<b>YOLO</b>													
Bryte	0.9	1.7	3.3	5.0	6.4	7.5	7.9	7.0	5.2	3.5	1.6	1.0	51.0
Davis	1.0	1.9	3.3	5.0	6.4	7.6	8.2	7.1	5.4	4.0	1.8	1.0	52.5
Esparto	1.0	1.7	3.4	5.5	6.9	8.1	8.5	7.5	5.8	4.2	2.0	1.2	55.8
Winters	1.7	1.7	2.9	4.4	5.8	7.1	7.9	6.7	5.3	3.3	1.6	1.0	49.4
Woodland	1.0	1.8	3.2	4.7	6.1	7.7	8.2	7.2	5.4	3.7	1.7	1.0	51.6
Zamora	1.1	1.9	3.5	5.2	6.4	7.4	7.8	7.0	5.5	4.0	1.9	1.2	52.8
<b>YUBA</b>													
Browns Valley	1.0	1.7	3.1	4.7	6.1	7.5	8.5	7.6	5.7	4.1	2.0	1.1	52.9
Brownsville	1.1	1.4	2.6	4.0	5.7	6.8	7.9	6.8	5.3	3.4	1.5	0.9	47.4

\* The values in this table were derived from:

- 1) California Irrigation Management Information System (CIMIS);
- 2) Reference EvapoTranspiration Zones Map, UC Dept. of Land, Air & Water Resources and California Dept of Water Resources 1999; and
- 3) Reference Evapotranspiration for California, University of California, Department of Agriculture and Natural Resources (1987) Bulletin 1922;
- 4) Determining Daily Reference Evapotranspiration, Cooperative Extension UC Division of Agriculture and Natural Resources (1987), Publication Leaflet 21426



**SECTION B. WATER BUDGET CALCULATIONS**

**Section B1. Maximum Applied Water Allowance (MAWA)**

The project's Maximum Applied Water Allowance shall be calculated using this equation:

$$MAWA = (ET_o) (0.62) [(0.7 \times LA) + (0.3 \times SLA)]$$

where:

- MAWA = Maximum Applied Water Allowance (gallons per year)
- ET<sub>o</sub> = Reference Evapotranspiration from Appendix A (Inches per year)
- 0.7 = ET Adjustment Factor (ETAF)
- LA = Landscaped Area Includes Special Landscape Area (square feet)
- 0.62 = Conversion factor (to gallons per square foot)
- SLA = Portion of the landscape area identified as Special Landscape Area (square feet)
- 0.3 = the additional ET Adjustment Factor for Special Landscape Area (1.0 - 0.7 = 0.3)

Maximum Applied Water Allowance = \_\_\_\_\_ gallons per year

Show calculations.

**Effective Precipitation (Eppt)**

If considering Effective Precipitation, use 25% of annual precipitation. Use the following equation to calculate Maximum Applied Water Allowance:

$$MAWA = (ET_o - Eppt) (0.62) [(0.7 \times LA) + (0.3 \times SLA)]$$

Maximum Applied Water Allowance = \_\_\_\_\_ gallons per year

Show calculations.





Appendix C — Sample Certificate of Completion.

**CERTIFICATE OF COMPLETION**

This certificate is filled out by the project applicant upon completion of the landscape project.

**PART 1. PROJECT INFORMATION SHEET**

Date		
Project Name		
Name of Project Applicant	Telephone No.	
	Fax No.	
Title	Email Address	
Company	Street Address	
City	State	Zip Code

**Project Address and Location:**

Street Address		Parcel, tract or lot number, if available.
City		Latitude/Longitude (optional)
State	Zip Code	

**Property Owner or his/her designee:**

Name	Telephone No.	
	Fax No.	
Title	Email Address	
Company	Street Address	
City	State	Zip Code

**Property Owner**

"I/we certify that I/we have received copies of all the documents within the Landscape Documentation Package and the Certificate of Completion and that it is our responsibility to see that the project is maintained in accordance with the Landscape and Irrigation Maintenance Schedule."

\_\_\_\_\_  
Property Owner Signature Date

**Please answer the questions below:**

1. Date the Landscape Documentation Package was submitted to the local agency \_\_\_\_\_
2. Date the Landscape Documentation Package was approved by the local agency \_\_\_\_\_
3. Date that a copy of the Water Efficient Landscape Worksheet (including the Water Budget Calculation) was submitted to the local water purveyor \_\_\_\_\_

**PART 2. CERTIFICATION OF INSTALLATION ACCORDING TO THE LANDSCAPE DOCUMENTATION PACKAGE**

"I/we certify that based upon periodic site observations, the work has been substantially completed in accordance with the ordinance and that the landscape planting and irrigation installation conform with the criteria and specifications of the approved Landscape Documentation Package."

Signature*	Date	
Name (print)	Telephone No.	
	Fax No.	
Title	Email Address	
License No. or Certification No.		
Company	Street Address	
City	State	Zip Code

\*Signer of the landscape design plan, signer of the irrigation plan, or a licensed landscape contractor.

**PART 3. IRRIGATION SCHEDULING**

Attach parameters for setting the irrigation schedule on controller per ordinance Section 492.10.

**PART 4. SCHEDULE OF LANDSCAPE AND IRRIGATION MAINTENANCE**

Attach schedule of Landscape and Irrigation Maintenance per ordinance Section 492.11.

**PART 5. LANDSCAPE IRRIGATION AUDIT REPORT**

Attach Landscape Irrigation Audit Report per ordinance Section 492.12.

**PART 6. SOIL MANAGEMENT REPORT**

Attach soil analysis report, if not previously submitted with the Landscape Documentation Package per ordinance Section 492.5.

Attach documentation verifying implementation of recommendations from soil analysis report per ordinance Section 492.5.

Appendix C – Sample Certificate of Completion.

**CERTIFICATE OF COMPLETION**

This certificate is filled out by the project applicant upon completion of the landscape project.

**PART 1. PROJECT INFORMATION SHEET**

Date		
Project Name		
Name of Project Applicant	Telephone No.	
	Fax No.	
Title	Email Address	
Company	Street Address	
City	State	Zip Code

**Project Address and Location:**

Street Address		Parcel, tract or lot number, if available.
City		Latitude/Longitude (optional)
State	Zip Code	

**Property Owner or his/her designee:**

Name	Telephone No.	
	Fax No.	
Title	Email Address	
Company	Street Address	
City	State	Zip Code

**Property Owner**

"I/we certify that I/we have received copies of all the documents within the Landscape Documentation Package and the Certificate of Completion and that it is our responsibility to see that the project is maintained in accordance with the Landscape and Irrigation Maintenance Schedule."

\_\_\_\_\_  
Property Owner Signature Date

**Please answer the questions below:**

1. Date the Landscape Documentation Package was submitted to the local agency \_\_\_\_\_
2. Date the Landscape Documentation Package was approved by the local agency \_\_\_\_\_
3. Date that a copy of the Water Efficient Landscape Worksheet (including the Water Budget Calculation) was submitted to the local water purveyor \_\_\_\_\_

**PART 2. CERTIFICATION OF INSTALLATION ACCORDING TO THE LANDSCAPE DOCUMENTATION PACKAGE**

"I/we certify that based upon periodic site observations, the work has been completed in accordance with the ordinance and that the landscape planting and irrigation installation conform with the criteria and specifications of the approved Landscape Documentation Package."

Signature*	Date	
Name (print)	Telephone No.	
	Fax No.	
Title	Email Address	
License No. or Certification No.		
Company	Street Address	
City	State	Zip Code

\*Signer of the landscape design plan, signer of the irrigation plan, or a licensed landscape contractor.

**PART 3. IRRIGATION SCHEDULING**

Attach parameters for setting the irrigation schedule on controller per ordinance Section 492.10.

**PART 4. SCHEDULE OF LANDSCAPE AND IRRIGATION MAINTENANCE**

Attach schedule of Landscape and Irrigation Maintenance per ordinance Section 492.11.

**PART 5. LANDSCAPE IRRIGATION AUDIT REPORT**

Attach Landscape Irrigation Audit Report per ordinance Section 492.12.

**PART 6. SOIL MANAGEMENT REPORT**

Attach soil analysis report, if not previously submitted with the Landscape Documentation Package per ordinance Section 492.6.

Attach documentation verifying implementation of recommendations from soil analysis report per ordinance Section 492.6.

## Appendix D – Prescriptive Compliance Option

(a) This appendix contains prescriptive requirements which may be used as a compliance option to the Model Water Efficient Landscape Ordinance.

(b) Compliance with the following items is mandatory and must be documented on a landscape plan in order to use the prescriptive compliance option:

(1) Submit a Landscape Documentation Package which includes the following elements:

(A) date

(B) project applicant

(C) project address (if available, parcel and/or lot number(s))

(D) total landscape area (square feet), including a breakdown of turf and plant material

(E) project type (e.g., new, rehabilitated, public, private, cemetery, homeowner-installed)

(F) water supply type (e.g., potable, recycled, well) and identify the local retail water purveyor if the applicant is not served by a private well

(G) contact information for the project applicant and property owner

(H) applicant signature and date with statement, "I agree to comply with the requirements of the prescriptive compliance option to the MWELD".

(2) Incorporate compost at a rate of at least four cubic yards per 1,000 square feet to a depth of six inches into landscape area (unless contra-indicated by a soil test);

(3) Plant material shall comply with all of the following:

(A) For residential areas, install climate adapted plants that require occasional, little or no summer water (average WUCOLS plant factor 0.3) for 75% of the plant area excluding edibles and areas using recycled water; For non-residential areas, install climate adapted plants that require occasional, little or no summer water (average WUCOLS plant factor 0.3) for 100% of the plant area excluding edibles and areas using recycled water;

(B) A minimum three inch (3") layer of mulch shall be applied on all exposed soil surfaces of planting areas except in turf areas, creeping or rooting groundcovers, or direct seeding applications where mulch is contraindicated.

(4) Turf shall comply with all of the following:

(A) Turf shall not exceed 25% of the landscape area in residential areas, and there shall be no turf in non-residential areas;

(B) Turf shall not be planted on sloped areas which exceed a slope of 1 foot vertical elevation change for every 4 feet of horizontal length;

(C) Turf is prohibited in parkways less than 10 feet wide, unless the parkway is adjacent to a parking strip and used to enter and exit vehicles. Any turf in parkways must be irrigated by subsurface irrigation or by other technology that creates no overspray or runoff.

(5) Irrigation systems shall comply with the following:

(A) Automatic irrigation controllers are required and must use evapotranspiration or soil moisture sensor data and utilize a rain sensor.

(B) Irrigation controllers shall be of a type which does not lose programming data in the event the primary power source is interrupted.

(C) Pressure regulators shall be installed on the irrigation system to ensure the dynamic pressure of the system is within the manufacturers recommended pressure range.

(D) Manual shut-off valves (such as a gate valve, ball valve, or butterfly valve) shall be installed as close as possible to the point of connection of the water supply.

(E) All irrigation emission devices must meet the requirements set in the ANSI standard, ASABE/ICC 802-2014. "Landscape Irrigation Sprinkler and Emitter Standard." All sprinkler heads installed in the landscape must document a distribution uniformity low quarter of 0.65 or higher using the protocol defined in ASABE/ICC 802-2014.

(F) Areas less than ten (10) feet in width in any direction shall be irrigated with subsurface irrigation or other means that produces no runoff or overspray.

(6) For non-residential projects with landscape areas of 1,000 sq. ft. or more, a private submeter(s) to measure landscape water use shall be installed.

(c) At the time of final inspection, the permit applicant must provide the owner of the property with a certificate of completion, certificate of installation, irrigation schedule and a schedule of landscape and irrigation maintenance.

**AGENDA TRANSMITTAL**

**MEETING DATE:** October 20, 2015

**CITY AGENDA ITEM:** Public Hearing and Other Proceedings related to Annexation No.10 (Portion of Parcel 3, Doc No. 2004-00163498) to Community Facilities District No. 2 (Municipal Services), including the following City Council Actions:

- a. Council Adoption of Resolution No. 2015-\_\_\_: Submitting Annexation of Territory and Levy of Special Taxes to Qualified Electors; and
- b. Council Adoption of Resolution No. 2015-\_\_\_: Declaring Results of Special Annexation Election, Determining Validity of Prior Proceedings, and Directing Recording of Amended Notice of Special Tax Lien; and
- c. Council Introduction and Waive Reading of Ordinance No. \_\_\_: Ordinance Levying Special Tax Within City of Suisun City Community Facilities District No. 2 (Municipal Services), Including Certain Annexation Territory.

**FISCAL IMPACT:** As noted in the staff report for the September 15, 2015 meeting, if approved, the annexation of the Zephyr Estates Project (Project) into Community Facilities District No. 2 (Municipal Services) ("CFD No. 2"), including the existing Tax Zone No.3 thereof, would result in a total revenue of \$49,436, of which \$47,096 is deposited into the General Fund and \$2,340 deposited into the existing fund for Tax Zone No.3. The Project is also within the District boundary map for the Peterson Ranch Maintenance Assessment District (MAD). This assessment would result in \$18,951 in revenue into the MAD. All levy amounts would be adjusted annually based on inflation modifiers.

**BACKGROUND:** As part of the Zephyr Estates' Conditions of Approval, the developer is required to annex into CFD No. 2 to offset the impacts on City Services due to the new development. City Services covered under CFD No. 2 include police, fire and paramedics. The developer is also required to annex into the existing Tax Zone No.3 (included within CFD No. 2) to cover costs associated with storm drainage maintenance within and around the new project. Separately, the development will also merge into the existing Peterson Ranch MAD to cover costs of lighting and landscaping.

Zephyr Estates includes fifty-nine (59) residential parcels and one commercial parcel located at the corner of Walters Road and East Tabor Avenue. On July 22, 2014, the Planning Commission forwarded a recommendation to the Council to approve a General Plan Amendment, Rezone, Planned Unit Development and the Tentative Subdivision Map for the Project. On September 16, 2014, the Council approved these entitlements and introduced an ordinance to rezone the property. On October 7, 2014, the Council adopted the ordinance that rezoned the property. The action to approve the Tentative Subdivision map included a number of Conditions of Approval. One of those conditions was to annex into CFD No. 2 to cover the costs of municipal services described above.

**PREPARED BY:**  
**REVIEWED BY:**  
**APPROVED BY:**

Amanda Dum, Management Analyst I  
 Timothy McSorley, Public Works & Building Director  
 Suzanne Bragdon, City Manager



Within CFD No. 2 is Tax Zone No.3, which is a zone within which further special tax can be levied for maintenance of storm drain facilities in and around the new development. Tax Zone No.3 is defined as the areas south of East Tabor Road, east of Walters Road and north of Caswell Lane and west of Charleston Street. The Project already lies within the boundaries of the Peterson Ranch MAD which cover maintenance costs associated with street lighting and landscaping. Only the residential portion of the subdivision is being constructed at this time and therefore will be the only portion of the subdivision annexing into CFD No. 2 (including Tax Zone No.3 therein), and the Peterson Ranch MAD.

The first step in the proceedings for the annexation of the subject property into CFD No. 2 occurred with the Council's adoption of a Resolution of Intention to Annex Territory at the September 15, 2015 meeting. Now before the Council is the second step in the proceedings, which requires the holding of a public hearing, the submission of certain matters to the qualified electors located within the territory to be annexed into CFD No. 2, declaring the results of this election, and, if the election is successful, introducing an ordinance levying taxes within CFD No. 2 (including the territory to be annexed into the district). The final step will be the adoption of the ordinance levying taxes at a subsequent meeting of the Council.

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**STAFF REPORT:** As noted above, before the Council is the second of three steps in the proceedings to annex property into CFD No. 2 (including Tax Zone No.3 therein). The annexation of property into CFD No. 2 (and Tax Zone No.3 therein) would meet the fiscal criteria as established by Resolution No. 2005-69 Cost Recovery Policy for New Development, dated October 4, 2005. CFD No. 2 is generally intended to offset Municipal Service costs, including administrative costs, thereby reducing the negative fiscal impact of new development on the City's General Fund, while Tax Zone No.3 is intended to offset Public Works Maintenance costs associated with maintenance of bio-retention drainage basins created by certain new development, thereby reducing the negative impact of the new development on the Storm Drain & Flood Channel Maintenance budget.

Multiple steps are required in the annexation process, some of which require Council action. As the first step in the annexation process, the Council adopted a Resolution of Intention to Annex Territory. At this meeting, Council is being asked to conduct a public hearing on the question of annexation of territory into CFD No. 2, consider submitting certain matters to the qualified electors located within the territory to be annexed into CFD No. 2, declaring the results of this election, and, if the election is successful, introducing an ordinance levying taxes within CFD No. 2 (including the territory to be annexed into the district). The final step will be adoption of the ordinance at a subsequent meeting of the Council, and publication of the ordinance within 15 days thereafter in a newspaper of general circulation in the area of CFD No. 2.

#### Need to Continue the Public Hearing

The Resolution of Intention to Annex Territory that was adopted on September 15, 2015, set the date for this Public Hearing as October 20, 2015. Unfortunately, the Notice was not published in a newspaper of general circulation in time for this meeting, so it would be appropriate for the Council to inform the public of this, open the hearing, take testimony and continue the hearing to November 3, 2015 at 7:00 pm.

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**STAFF RECOMMENDATION:** It is recommended that the City Council:

1. Inform the public that the Notice was not published timely; and
2. Open the Public Hearing regarding the annexation of territory into CFD No. 2; and
3. Receive testimony, if any; and
4. Continue the Public Hearing to November 3, 2015.

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**ATTACHMENTS:**

1. Resolution No. 2015-\_\_\_: Submitting Annexation of Territory and Levy of Special Taxes to Qualified Electors.
2. Resolution No. 2015-\_\_\_: Declaring Results of Special Annexation Election, Determining Validity of Prior Proceedings, and Directing Recording of Amended Notice of Special Tax Lien.
3. Amendment No. 10 to Notice of Special Tax Lien.
4. Ordinance No. \_\_\_: Ordinance Levying Special Tax Within City of Suisun City Community Facilities District No. 2 (Municipal Services), Including Certain Annexation Territory.



**RESOLUTION NO. 2015-\_\_**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SUISUN CITY  
SUBMITTING ANNEXATION OF TERRITORY AND  
LEVY OF SPECIAL TAXES TO QUALIFIED ELECTORS**

**CITY OF SUISUN CITY  
Community Facilities District No. 2  
(Municipal Services)**

**Annexation No. 10 (Portion of Parcel 3, Doc No. 2004-00163498)**

**WHEREAS**, this Council, acting as legislative body of the City of Suisun City's Community Facilities District No. 2 (Municipal Services) (the "CFD") has adopted "A Resolution of Intention to Annex Territory to Community Facilities District and to Authorize the Levy of Special Taxes Therein" (the "Resolution of Intention to Annex") stating its intention to annex certain territory (the "Annexation Territory") to the CFD pursuant to the Mello Roos Community Facilities Act of 1982, Sections 53311 and following of the California Government Code (the "Act"); and

**WHEREAS**, a copy of the Resolution of Intention to Annex, incorporating a description and map of the proposed boundaries of the Annexation Territory and stating the services (the "Services") to be provided and the rate and method of apportionment of the special tax (the "Special Taxes") to be levied within the Annexation Territory to pay for the Services, is on file with the City Clerk and the provisions thereof are fully incorporated herein by this reference as if fully set forth herein; and

**WHEREAS**, on the date hereof, this Council held a noticed public hearing as required by the Act and the Resolution of Intention to Annex relative to the proposed annexation of the Annexation Territory to the CFD and the levy of special taxes in the Annexation Territory; and

**WHEREAS**, at such hearing all interested persons desiring to be heard on all matters pertaining to the annexation of the Annexation Territory to the CFD and the levy of the Special Taxes within the Annexation Territory were heard and a full and fair hearing was held; and

**WHEREAS**, prior to the time fixed for the hearing, written protests had not been filed against the proposed annexation of the Annexation Territory to the CFD by (i) 50% of more of the registered voters, or six registered voters, whichever is more, residing in the existing CFD, or (ii) 50% or more of the registered voters, or six registered voters, whichever is more, residing in the Annexation Territory, (iii) owners of one-half or more of the area of land in the CFD not exempt from special taxes or (iv) owners of one-half or more of the area of land in the Annexation Territory not exempt from special taxes; and

**WHEREAS**, the Annexation Map of the captioned annexation has been filed with the City Clerk and recorded in the Solano County Recorder's Office on October 6, 2015, in Book 25 at Page 56 of Maps of Assessment and Community Facilities Districts, which map shows the Annexation Territory.

**NOW, THEREFORE, BE IT RESOLVED** by the City Council of the City of Suisun City that the following be ordered:

1. **Prior Proceedings.** All prior proceedings taken by this Council with respect to the CFD and the proposed annexation of the Annexation Territory thereto have been duly considered and are hereby determined to be valid and in conformity with the Act, and the CFD has been validly established pursuant to the Act.

2. **Prior Resolutions.** The provisions of the Resolution of Intention to Annex and Resolution No. 2005-89, entitled "A Resolution of the Suisun City Council Forming Community Facilities District No. 2 (Municipal Services)" (the "Resolution of Formation"), previously adopted by this Council for the CFD, are by this reference incorporated herein, as if fully set forth herein.

3. **Voter Approval.** Pursuant to the provisions of the Act, the propositions of (i) the annexation of the Annexation Territory, and (ii) the levy of the Special Taxes within the Annexation Territory shall be submitted to the voters of the Annexation Territory at an election called therefor as hereinafter provided.

4. **Electors Determined.** This Council hereby finds that fewer than 12 persons have been registered to vote within the Annexation Territory for each of the 90 days preceding the close of the hearing heretofore conducted and concluded by this Council for the purposes of these annexation proceedings. Accordingly, and pursuant to the Act, this Council finds that for purposes of these proceedings the qualified electors are the landowners within the Annexation Territory and that the vote shall be by said landowners, each having one vote for each acre or portion thereof such landowner owns in the Annexation Territory.

5. **Applicable Laws.** Pursuant the Act, the election shall be conducted by mail ballot under Section 4000 of the California Elections Code, provided, however, that for purposes of setting the date for the election, Sections 53326 and 53327 of the Act shall govern.

6. **Special Election Called.** On Tuesday, October 20, 2015, in City Hall, Council Chambers, 701 Civic Center Boulevard, Suisun City, California, a special election is hereby called to consider the measure described in the ballot referred to below. This Council hereby further finds that the provision of the Act requiring a minimum of 90 days to elapse before said election is for the protection of voters, that the voters have waived such requirement, and that the date for the election herein specified is established accordingly.

Under Section 50075.1 of the Government Code, the following accountability provisions shall apply to the special taxes: (a) the provision and/or acquisition of the Services and the incidental costs thereof, all as defined in the Resolution of Intention to Annex and the Resolution of Formation, shall constitute the specific single purpose; (b) the proceeds shall be applied only to the specific purposes identified in (a) above; (c) there shall be created special account(s) or funds(s) into which the proceeds shall be deposited; and (d) there shall be caused to be prepared an annual audit and report of the CFD.

7. **Election Official.** The City Clerk is hereby appointed as the Election Official to conduct the election and shall cause to be provided to each landowner in the Annexation Territory a ballot substantially in the form of Exhibit A hereto (the "Ballot"), which form is hereby approved. The City Clerk shall accept mailed or hand delivered Ballots of the qualified electors received prior to 7:00 p.m. on the date fixed above for the election.

8. **Effective.** This resolution shall take effect upon its adoption.

**PASSED AND ADOPTED** at a Regular Meeting of the City Council of the City of Suisun City duly held on Tuesday, the 3<sup>rd</sup> day of November 2015, by the following vote:

**AYES:** Council Members

**NOES:** Council Members

**ABSENT:** Council Members

**ABSTAIN:** Council Members

**WITNESS** my hand and the seal of said City this 3<sup>rd</sup> day of November 2015.

---

Linda Hobson, CMC  
City Clerk

**EXHIBIT A**

**CITY OF SUISUN CITY  
Community Facilities District No. 2  
(Municipal Services)**

**Annexation No. 10 (Portion of Parcel 3, Doc No. 2004-00163498)**

**OFFICIAL BALLOT  
SPECIAL TAX ANNEXATION ELECTION**

This ballot is for a special, landowner election. You must return this ballot in the enclosed postage paid envelope to the office of the City Clerk of the City of Suisun City no later than 7:00 p.m. on Tuesday, October 20, 2015, either by mail or in-person. The City Clerk's office is located at 701 Civic Center Boulevard, Suisun City, California 94585.

To vote, mark a cross (X) on the voting line after the word "YES" or after the word "NO". All marks otherwise made are forbidden. All distinguishing marks are forbidden and make the ballot void.

If you wrongly mark, tear, or deface this ballot, return it to the City Clerk of the City of Suisun City and obtain another.

**BALLOT MEASURE NO. 1:** *Shall the City of Suisun City, by and for its Community Facilities District No. 2 (Municipal Services) (the "CFD"), be authorized to annex Annexation No. 10 (Portion of Parcel 3, Doc No. 2004-00163498) to the CFD, as such territory is described in "A Resolution Submitting Annexation of Territory and Levy of Special Taxes to Qualified Electors" adopted by the City Council of the City of Suisun City on October 20, 2015? The effectiveness of this Ballot Measure No. 1 is contingent upon the passage of Ballot Measure No. 2.*

YES: \_\_\_\_\_

NO: \_\_\_\_\_

**BALLOT MEASURE NO. 2:** *Shall the City of Suisun City, by and for its Community Facilities District No. 2 (Municipal Services) (the "CFD"), be authorized to levy special taxes within the territory proposed for annexation to the CFD according to the rate and method of apportionment specified in the Resolution of the City Council entitled "A Resolution of Intention to Annex Territory to Community Facilities District and to Authorize the Levy of Special Taxes Therein," adopted by the City Council of the City of Suisun City on September 15, 2015? The effectiveness of this Ballot Measure No. 2 is contingent upon the passage of Ballot Measure No. 1.*

YES: \_\_\_\_\_

NO: \_\_\_\_\_

By execution in the space provided below, you also confirm your written waiver of the time limit pertaining to the conduct of the election and any requirement for analysis and arguments with respect to the ballot measure.

Assessor Parcel No.: \_\_\_\_\_

Acres: \_\_\_\_\_

Number of Votes: \_\_\_\_\_

**[PROPERTY OWNER NAME]**

By: \_\_\_\_\_

Name: \_\_\_\_\_

Its: \_\_\_\_\_



**RESOLUTION NO. 2015-\_\_\_**

**A RESOLUTION DECLARING RESULTS OF SPECIAL ANNEXATION ELECTION,  
DETERMINING VALIDITY OF PRIOR PROCEEDINGS, AND DIRECTING  
RECORDING OF AMENDED NOTICE OF SPECIAL TAX LIEN**

**CITY OF SUISUN CITY  
Community Facilities District No. 2  
(Municipal Services)**

**Annexation No. 10 (Portion of Parcel 3, Doc No. 2004-00163498)**

**WHEREAS**, in proceedings heretofore conducted by the Council pursuant to the Mello-Roos Community Facilities Act of 1982 (the "Act"), this Council has heretofore adopted a resolution calling a special election of the qualified landowner electors in the territory of land (the "Annexation Territory") proposed to be annexed to Community Facilities District No. 2 (Municipal Services) (the "CFD"); and

**WHEREAS**, pursuant to the terms of the resolution of the City Council entitled "A Resolution Submitting Annexation of Territory and Levy of Special Taxes to Qualified Electors" (the "Election Resolution") adopted by the City Council on this date, which is hereby incorporated herein by this reference, the special election has been held and the City Clerk has filed a Canvass of Votes Cast in Special Election (the "Canvass"), a copy of which is attached hereto as Exhibit A; and

**WHEREAS**, this Council has reviewed the Canvass and hereby approves it.

**NOW, THEREFORE, BE IT RESOLVED** by the City Council of the City of Suisun City that the following be ordered:

- 1. Issue Presented.** The issues presented at the special election were (i) the annexation of the Annexation Territory to the CFD and (ii) the levy of a special tax within the Annexation Territory.
- 2. Measure Approved.** Pursuant to the Canvass, the issues presented at the special election were approved by the landowners of the Annexation Territory by more than two-thirds of the votes received at the special election.
- 3. Annexation Completed.** Pursuant to the voter approval, the Annexation Territory is hereby declared to be fully annexed to and part of the CFD with full legal effect.
- 4. Authority to Levy Special Taxes.** Pursuant to the voter approval, this Council may levy special taxes in the territory in the Annexation Territory according to the rate and method of apportionment specified in the Resolution of this Council entitled "A Resolution of Intention to Annex Territory to Community Facilities District and to Authorize the Levy of Special Taxes Therein," adopted on September 15, 2015.
- 5. Prior Proceedings.** It is hereby found that all prior proceedings and actions taken by this Council pursuant to the CFD and the Annexation Territory were valid and in conformity with the Act.

6. **Amendment to Notice of Lien.** Within 15 days of the date of this Resolution, the City Clerk shall execute and cause to be recorded in the office of the County Recorder of the County of Solano an amendment to the Notice of Special Tax Lien as required by Section 3117.5 of the California Streets and Highways Code.

7. **Effective.** This resolution shall take effect upon its adoption.

**PASSED AND ADOPTED** at a Regular Meeting of the City Council of the City of Suisun City duly held on Tuesday, the 3<sup>rd</sup> day of November 2015, by the following vote:

**AYES:** Council Members

**NOES:** Council Members

**ABSENT:** Council Members

**ABSTAIN:** Council Members

WITNESS my hand and the seal of said City this 3<sup>rd</sup> day of November 2015.

---

Linda Hobson, CMC  
City Clerk

**EXHIBIT A  
CITY OF SUISUN CITY  
Community Facilities District No. 2  
(Municipal Services)**

**Annexation No. 10 (Portion of Parcel 3, Doc No. 2004-00163498)**

**CANVASS AND STATEMENT OF RESULT OF ELECTION**

I hereby certify that on this date, I canvassed the returns of the election held on this date in the territory proposed for annexation to City of Suisun City Community Facilities District No. 2 (Municipal Services), which election is designated as the Special Tax Annexation Election, and the total number of ballots cast in the territory proposed to be annexed and the total number of votes cast for and against the measures are as follows and the totals as shown for and against the measures are full, true and correct:

**BALLOT MEASURE NO. 1:** *Shall the City of Suisun City, by and for its Community Facilities District No. 2 (Municipal Services) (the "CFD"), be authorized to annex Annexation No. 10 (Portion of Parcel 3, Doc No. 2004-00163498) to the CFD, as such territory is described in "A Resolution Submitting Annexation of Territory and Levy of Special Taxes to Qualified Electors" adopted by the City Council of the City of Suisun City on October 20, 2015? The effectiveness of this Ballot Measure No. 1 is contingent upon the passage of Ballot Measure No. 2.*

Qualified Votes	Landowner	Votes Cast	YES	NO

**BALLOT MEASURE NO. 2:** *Shall the City of Suisun City, by and for its Community Facilities District No. 2 (Municipal Services) (the "CFD"), be authorized to levy special taxes within the territory proposed for annexation to the CFD according to the rate and method of apportionment specified in the Resolution of the City Council entitled "A Resolution of Intention to Annex Territory to Community Facilities District and to Authorize the Levy of Special Taxes Therein," adopted by the City Council of the City of Suisun City on September 15, 2015? The effectiveness of this Ballot Measure No. 2 is contingent upon the passage of Ballot Measure No. 1.*

Qualified Votes	Landowner	Votes Cast	YES	NO

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND this 20th day of October, 2015.

CITY OF SUISUN CITY

By: \_\_\_\_\_  
Linda Hobson, CMC, City Clerk

The Assessor's tax parcel(s) numbers of all parcels or any portion thereof which are included in this Amendment No. 10 to Notice of Special Tax Lien, together with the name(s) of the owner(s) thereof, as they appear on the latest secured assessment roll as of the date of recording hereof or as are otherwise known to the City are as set forth in Exhibit A hereto, and by such reference hereby made a part hereof.

The territory to be added to the CFD which is included in this Amendment No. 10 to Notice of Special Tax Lien shall be placed in Tax Zone No. 3, as such term is defined in the Rate and Method of Apportionment of Special Tax applicable to the CFD, as supplemented to date (the "Existing RMA"). Tax Zone No. 3 was established in connection with Annexation No. 2 (Peterson Ranch – Tax Zones No. 3 and No. 4) to the CFD. The relevant portions of the Existing RMA are set forth in Exhibit B hereto, and by such reference hereby made a part hereof.

For further information concerning the current and estimated future tax liability of owners or purchasers of real property subject to this special tax lien, interested persons should contact the Finance Officer of the City, City Hall, 701 Civic Center Boulevard, Suisun City, CA 94595 (telephone number: 707-421-7323).

Dated: As of \_\_\_\_\_, 2015

By: \_\_\_\_\_  
Linda Hobson, CMC  
City Clerk, City of Suisun City

**RECORDING REQUESTED BY AND  
AFTER RECORDATION RETURN TO:**

City Clerk  
City of Suisun City  
701 Civic Center Blvd.  
Suisun City, CA 94585

**AMENDMENT NO. 10 TO  
NOTICE OF SPECIAL TAX LIEN**

**CITY OF SUISUN CITY  
Community Facilities District No. 2  
(Municipal Services)**

**Annexation No. 10 (Portion of Parcel 3, Doc No. 2004-00163498)**

Pursuant to the requirements of Section 3117.5 of the Streets and Highways Code of California and the Mello-Roos Community Facilities Act of 1982, as amended, section 53311, *et. seq.*, of the California Government Code (the "Act"), the undersigned City Clerk of the City of Suisun City (the "City"), County of Solano, State of California, hereby gives notice that a lien to secure payment of a special tax, which the City is authorized to levy, is hereby imposed on the property described herein. The special tax secured by this lien is authorized to be levied for the purpose of paying for certain municipal services set forth in that certain Notice of Special Tax Lien heretofore recorded in the Office of the County Recorder of the County of Solano, State of California on November 23, 2005 at the hour of 2:36 p.m. as Document No. 200500182271 to which recorded Notice of Special Tax Lien reference is hereby made and the provisions of which are hereby incorporated by this reference.

This Amendment No. 10 to Notice of Special Tax Lien amends the Notice of Special Tax Lien solely for the following purpose:

To add to the territory of the City of Suisun City Community Facilities District No. 2 (Municipal Services) (the "CFD"). The territory included in the original CFD is set forth in the map of the CFD heretofore recorded in the Solano County Recorder's Office on October 27, 2005, in Book 23 at Page 60 of Maps of Assessment and Community Facilities Districts, to which map reference is hereby made, as such map has been supplemented in connection with subsequent annexations. The territory to be added is set forth in that certain "Annexation Map No. 10 (Portion of Parcel 3, Doc No. 2004-00163498) to Community Facilities District No. 2 (Municipal Services), County of Solano, State of California," heretofore recorded on October 6, 2015, at 2:43 p.m. at Book 25 Maps of Assessment and Community Facilities Districts at Page 56 in the office of the County Recorder of the County of Solano, State of California.

The Assessor's tax parcel(s) numbers of all parcels or any portion thereof which are included in this Amendment No. 10 to Notice of Special Tax Lien, together with the name(s) of the owner(s) thereof, as they appear on the latest secured assessment roll as of the date of recording hereof or as are otherwise known to the City are as set forth in Exhibit A hereto, and by such reference hereby made a part hereof.

The territory to be added to the CFD which is included in this Amendment No. 10 to Notice of Special Tax Lien shall be placed in Tax Zone No. 3, as such term is defined in the Rate and Method of Apportionment of Special Tax applicable to the CFD, as supplemented to date (the "Existing RMA"). Tax Zone No. 3 was established in connection with Annexation No.2 (Peterson Ranch – Tax Zones No. 3 and No. 4) to the CFD. The relevant portions of the Existing RMA are set forth in Exhibit B hereto, and by such reference hereby made a part hereof.

For further information concerning the current and estimated future tax liability of owners or purchasers of real property subject to this special tax lien, interested persons should contact the Finance Officer of the City, City Hall, 701 Civic Center Boulevard, Suisun City, CA 94595 (telephone number: 707-421-7323).

Dated: As of \_\_\_\_\_, 2015

By: \_\_\_\_\_  
Linda Hobson, CMC  
City Clerk, City of Suisun City

**EXHIBIT A**

**CITY OF SUISUN CITY  
Community Facilities District No. 2  
(Municipal Services)**

**Annexation No. 10 (Portion of Parcel 3, Doc No. 2004-00163498)**

**ASSESSOR'S PARCEL NUMBERS AND OWNERS OF LAND**

<u>Assessor's Parcel No(s).</u>	<u>Name(s) of Property Owners</u>
0174-120-230	Seecon Homes, Inc., a California corporation

**EXHIBIT B**  
**CITY OF SUISUN CITY**  
**Community Facilities District No. 2**  
**(Municipal Services)**

**SUPPLEMENT NO. 2 (TAX ZONES No. 3 AND No. 4) TO**  
**RATE AND METHOD OF APPORTIONMENT OF SPECIAL TAX**

This Supplement No. 2 (Tax Zones No. 3 and No. 4) to Rate and Method of Apportionment of Special Tax (this "Supplement No. 2") supplements the Rate and Method of Apportionment of Special Tax as supplemented by previous Supplement(s) related to previous annexation(s) (the "Existing Rate and Method," and together with Supplement No. 2, the "Rate and Method") for City of Suisun City Community Facilities District No. 2 (Municipal Services) (the "CFD") in connection with Annexation No. 2 (Peterson Ranch – Tax Zones No. 3 and No. 4) ("Annexation No. 2") to the CFD. The Existing Rate and Method (excluding previous Supplement(s) relating to previous Annexation(s)) is attached as Attachment No. 1.

This Supplement No. 2 supplements the Existing Rate and Method as set forth below. Except as expressly set forth in this Supplement No. 2, all provisions of the Existing Rate and Method (except the provisions of previous Supplement(s) relating specifically to previous Annexation(s)) shall govern the area added to the CFD by Annexation No. 2, which area shall constitute Tax Zones No. 3 and No. 4 for purposes of the Rate and Method.

Capitalized terms that are used but not defined in this Supplement No. 2 have the meaning given them in the Existing Rate and Method.

The Existing Rate and Method is hereby supplemented to add the following Section C.4. Sections C.2-3 of the Existing Rate and Method shall not apply to the area added to the CFD as a result of Annexation No. 2.

**4. Tax Zones No.3 and No.4 Special Tax**

The following Tables 4a (Zone No. 3) and 4b (Zone No. 4) identify the Maximum Tax Zone Special Tax.

**Table 4a  
City of Suisun City  
Community Facilities District No. 2  
(Municipal Services)  
Maximum Tax Zone Special Taxes for  
Tax Zone No. 3 APN 0174-120-220 (Unit 6 of Peterson Ranch)  
STORM DRAINAGE**

<b>Land Use Category</b>	<b>Maximum CFD-Wide Special Tax Tax Zone No. 3 Fiscal Year 2006-07 *</b>
Single-Family Detached Property (132 EDU's)	\$31.32 per EDU per Year
Single-Family Attached Property with Commercial (0 EDU's) or (0 Unit Types)	\$0
Multi-Family Property (0 EDUs)	\$0
Live/Work Property (0 EDUs) or (0 Unit Types)	\$0
Non-Residential Property (0 EDUs)	\$0

**Table 4b  
City of Suisun City  
Community Facilities District No. 2  
(Municipal Services)  
Maximum Tax Zone Special Taxes for  
Tax Zone No. 4 APN 0174-472-010 (Unit 5c of Peterson Ranch)  
STORM DRAINAGE**

<b>Land Use Category</b>	<b>Maximum CFD-Wide Special Tax Tax Zone No. 4 Fiscal Year 2006-07 *</b>
Not applicable	\$0

\* Beginning in January 2007 and each January thereafter, the Maximum Special Tax specified in Tables 4a and 4b shall be adjusted by applying the Average Increase, if any, in the Indices. Each annual adjustment of the Maximum Special Tax shall become effective on the subsequent July 1.

Attachment No. 1

CITY OF SUISUN CITY  
Community Facilities District No. 2  
(Municipal Services)

**RATE AND METHOD OF APPORTIONMENT OF SPECIAL TAX**

A Special Tax applicable to each Assessor's Parcel in Community Facilities District No. 2 (Municipal Services) (the "CFD") shall be levied and collected according to the tax liability determined by the City Council, through the application of the appropriate amount or rate for Taxable Property, as described below. All of the property in the CFD, unless exempted by law or by the provisions of Section E below, shall be taxed for the purposes, to the extent, and in the manner herein provided, including property subsequently annexed to the CFD unless a separate Rate and Method of Apportionment of Special Tax is adopted for the annexation area.

A. **DEFINITIONS**

The terms hereinafter set forth have the following meanings:

**"Acre or Acreage"** means the land area of an Assessor's Parcel as shown on an Assessor's Parcel Map, or if the land area is not shown on an Assessor's Parcel Map, the land area shown on the applicable final subdivision map or other parcel map recorded at the Solano County Recorder's Office.

**"Act"** means the Mello-Roos Community Facilities Act of 1982, as amended, Chapter 2.5 of Part 1 of Division 2 of Title 5 commencing at Section 53311 of the California Government Code.

**"Administrator"** means the individual(s) designated by the City to administer the CFD in accordance with the authority and powers granted by the City Council.

**"Assessor's Parcel" or "Parcel"** means a lot or parcel shown on an Assessor's Parcel Map with an assigned Assessor's Parcel number.

**"Assessor's Parcel Map"** means an official map of the County Assessor of the County of Solano designating parcels by Assessor's Parcel number.

**"Average Increase"** means the annual average increase in the Indices that shall be applied to escalate the Maximum Special Tax each Fiscal Year. The Average Increase shall be calculated in January of each year by (1) referencing the Bureau of Labor Statistics Data to identify the annual percentage increase in each Index as of the end of the prior year, and (2) taking the average of these two percentages. If either Index decreases from one year to the next, the percentage change from the prior year shall be assumed to be zero for purposes of calculating the Average Increase.

**"Building Square Footage"** means the total gross square footage of the floor area of the buildings on any Parcel of Non-Residential Property determined by calculating the combined floor area contained within a building's exterior walls including the area of an addition where floor area is increased. Parking areas and exterior walkways shall not be included in the calculation of Building Square Footage. The determination of Building Square Footage shall be made by reference to appropriate records kept by the City's Building Department.

**“CFD-Wide Special Tax”** means the Maximum Special Tax identified in Section C.1 below that shall be levied on all Developed Property within the CFD.

**“CFD-Wide Special Tax Requirement”** means the amount necessary in any Fiscal Year to (i) pay the cost of authorized police, fire, paramedical, storm drain and City-wide landscaping services, (ii) pay administrative expenses of the CFD, and (iii) cure delinquencies in the payment of Special Taxes levied in prior Fiscal Years or (based on delinquencies in the payment of Special Taxes which have already taken place) are expected to occur in the Fiscal Year in which the tax will be collected.

**“City”** means the City of Suisun City.

**“City Council”** means the City Council of the City of Suisun City, acting as the legislative body of the CFD.

**“Developed Property”** means, in any Fiscal Year, all Taxable Property for which a building permit for new construction has been issued prior to July 1 of the preceding Fiscal Year.

**“Fiscal Year”** means the period starting July 1 and ending on the following June 30.

**“Indices”** means the Consumer Price Indexes for the San Francisco-Oakland-San Jose Urban Wage Earners and Clerical Workers Category and the U.S. City Average Urban Wage Earners and Clerical Workers Category.

**“Live/Work Property”** means a Parcel on which all or a portion of a Unit is deed-restricted for commercial use, as determined in the sole discretion of the City.

**“Maximum CFD-Wide Special Tax”** means the maximum CFD-Wide Special Tax, determined in accordance with Section C.1 below, that can be levied on Taxable Property in any Fiscal Year.

**“Maximum Tax Zone Special Tax”** means the maximum Tax Zone Special Tax, determined in accordance with Section C.2 below, that can be levied on Taxable Property in any Fiscal Year.

**“Multi-Family Property”** means, in any Fiscal Year, all Parcels of Developed Property for which a building permit was issued for construction of a residential structure with Units that are offered for rent to the general public.

**“Non-Residential Property”** means any Taxable Property within the boundaries of the CFD that is not Live/Work Property, Single-Family Detached Property, Single-Family Attached Property or Multi-Family Property, as defined herein.

**“Public Agency”** means the federal government, State of California or other local governments or public agencies.

**“RMA”** means this Rate and Method of Apportionment of Special Tax.

**“Single-Family Attached Property”** means, in any Fiscal Year, all Parcels of Developed Property for which a building permit was issued for construction of a residential structure consisting of two or more Units that share common walls and are offered as for-sale units, including such residential structures that meet that statutory definition of a condominium contained in Civil Code Section 1351.

**“Single Family Detached Property”** means, in any Fiscal Year, all Parcels of Developed Property which meet both of the following criteria: (i) a building permit was issued for construction of a Unit that does not share a common wall with another Unit, and (ii) the Parcel has not been designated as Live/Work Property.

**“Special Tax”** means a special tax levied in any Fiscal Year to pay the CFD-Wide Special Tax Requirement or the Tax Zone Special Tax Requirement.

**“Taxable Property”** means all Assessor’s Parcels within the boundaries of the CFD which are not exempt from the Special Tax pursuant to law or Section E below.

**“Tax Zone”** means a mutually exclusive geographic area within which a particular Tax Zone Special Tax may be levied pursuant to this RMA. All of the property within the CFD at the time of the CFD formation is within Tax Zone No. 1; additional Tax Zones may be created when property is annexed into the CFD, and a separate Tax Zone Special Tax shall be identified for property within a new Tax Zone at the time of such annexation.

**“Tax Zone Special Tax”** means a Special Tax that shall be levied within a particular Tax Zone or Tax Zones but not necessarily levied at a consistent rate throughout the entire CFD.

**“Tax Zone Special Tax Requirement”** means the amount necessary in any Fiscal Year to pay the cost of authorized landscaping services within a particular Tax Zone. A separate Tax Zone Special Tax Requirement shall be determined each Fiscal Year for each Tax Zone within which a Tax Zone Special Tax is authorized to be levied.

**“Unit”** means a residential dwelling unit, including individual single-family detached, duplex, triplex, fourplex, townhome, condominium, or apartment units.

## **B. DATA FOR ANNUAL ADMINISTRATION OF SPECIAL TAX**

After July 1 of each Fiscal Year, the Administrator shall categorize all Parcels of Taxable Property in the CFD as Single-Family Detached Property, Single-Family Attached Property, Multi-Family Property, Live/Work Property or Non-Residential Property. For each Parcel of Single-Family Attached Property, Live/Work Property and Multi-Family Property, the Administrator shall determine the number of Units on the Parcel by referencing the building permit, site plan, condominium plan, apartment plan or other development plan for the Parcel. The Administrator shall determine the Building Square Footage for all Parcels of Non-Residential Property. The Administrator shall also determine the Tax Zone within which each Parcel of Taxable Property is located.

**C. MAXIMUM SPECIAL TAX**

**1. *CFD-Wide Special Tax***

Table 1 below identifies the Maximum CFD-Wide Special Taxes.

**Table 1  
City of Suisun City  
Community Facilities District No. 2  
(Municipal Services)  
Maximum CFD-Wide Special Taxes**

<b>Land Use Category</b>	<b>Maximum CFD-Wide Special Tax Fiscal Year 2005-06 *</b>
Single-Family Detached Property	\$629.90 per Unit
Single-Family Attached Property	\$472.43 per Unit
Multi-Family Property	\$236.21 per Unit
Live/Work Property	\$629.90 per Unit plus \$629.90 per 1,000 square feet (or portion thereof) of non-residential building and ancillary improvements
Non-Residential Property	The greater of \$629.90 per parcel or \$629.90 per 1,000 Square Feet (or portion thereof) of Building Square Footage

\* Beginning in January 2006 and each January thereafter, this Maximum Special Tax shall be adjusted by applying the Average Increase, if any, in the Indices. Each annual adjustment of the Maximum Special Tax shall become effective on the subsequent July 1.

**2. Tax Zone No.1 Special Tax**

Table 2 below identifies the Maximum Tax Zone Special Tax for Tax Zone No. 1. A different Maximum Tax Zone Special Tax shall be identified for Tax Zones added to the CFD as a result of future annexations.

**Table 2  
City of Suisun City  
Community Facilities District No. 2  
(Municipal Services)  
Maximum Tax Zone Special Taxes for Tax Zone No. 1**

Land Use Category	Maximum CFD-Wide Special Tax Tax Zone No. 1 Fiscal Year 2005-06 *
Single-Family Detached Property	\$386.04 per Unit
Single-Family Attached Property	\$289.53 per Unit
Multi-Family Property	\$144.77 per Unit
Live/Work Property	\$386.04 per Unit plus \$386.04 per 1,000 square feet (or portion thereof) of non-residential space
Non-Residential Property	The greater of \$386.04 per Parcel or \$386.04 per 1,000 Square Feet (or portion thereof) of Building Square Footage

\* Beginning in January 2006 and each January thereafter, this Maximum Special Tax shall be adjusted by applying the Average Increase, if any, in the Indices. Each annual adjustment of the Maximum Special Tax shall become effective on the subsequent July 1.

**D. METHOD OF LEVY AND COLLECTION OF THE SPECIAL TAX**

**1. CFD-Wide Special Tax**

Each Fiscal Year, the CFD-Wide Special Tax shall be levied on all Parcels of Developed Property within the CFD as follows:

- Step 1:** Determine the CFD-Wide Special Tax Requirement for the Fiscal Year in which the CFD-Wide Special Tax will be collected;
- Step 2:** Calculate the total CFD-Wide Special Tax revenues that could be collected from Developed Property within the CFD based on application of the Maximum CFD-Wide Special Tax rates determined pursuant to Section C.1 above;

- Step 3:** If the amount determined in Step 1 is **greater than or equal to** the amount calculated in Step 2, levy the Maximum CFD-Wide Special Tax on all Parcels of Developed Property in the CFD.
- Step 4:** If the amount determined in Step 1 is **less than** the amount calculated in Step 2, levy the CFD-Wide Special Tax against all Parcels of Developed Property in equal percentages up to 100% of the Maximum CFD-Wide Special Tax for each Parcel until the amount of the CFD-Wide Special Tax levy equals the CFD-Wide Special Tax Requirement for that Fiscal Year.

## **2. Tax Zone Special Tax**

Each Fiscal Year, the Tax Zone Special Tax shall be levied on all Parcels of Developed Property within each Tax Zone as follows:

- Step 1:** Separately for each Tax Zone, determine the Tax Zone Special Tax Requirement for the Fiscal Year in which the Tax Zone Special Tax will be collected;
- Step 2:** Calculate separately for each Tax Zone the total Tax Zone Special Tax revenues that could be collected from Developed Property within the Tax Zone based on application of the Maximum Tax Zone Special Tax rates for that Tax Zone;
- Step 3:** If the amount determined in Step 1 is **greater than or equal to** the amount calculated in Step 2, levy the Maximum Tax Zone Special Tax on all Parcels of Developed Property in the Tax Zone.
- Step 4:** If the amount determined in Step 1 is **less than** the amount calculated in Step 2, levy the Tax Zone Special Tax against all Parcels of Developed Property within the Tax Zone in equal percentages up to 100% of the Maximum Tax Zone Special Tax for each Parcel until the amount of the Tax Zone Special Tax levy equals the Tax Zone Special Tax Requirement for that Fiscal Year.

The CFD-Wide Special Tax and the Tax Zone Special Tax within the CFD shall be collected in the same manner and at the same time as ordinary ad valorem property taxes, provided, however, that the CFD may (under the authority provided in the Act), in any particular case, bill the taxes directly to the property owner off the County tax roll, and the Special Taxes will be equally subject to penalties and foreclosure if delinquent.

**E. LIMITATIONS**

Notwithstanding any other provision of this Rate and Method of Apportionment of Special Tax, no Special Tax shall be levied on land that has been conveyed to a Public Agency, except as otherwise provided in Sections 53317.3 and 53317.5 of the Act.

**F. INTERPRETATION OF SPECIAL TAX FORMULA**

The City reserves the right to make minor administrative and technical changes to this document that do not materially affect the Rate and Method of Apportioning Special Taxes. In addition, the interpretation and application of any section of this document shall be left to the City's discretion. Interpretations may be made by the City by ordinance or resolution for purposes of clarifying any vagueness or ambiguity in this Rate and Method of Apportionment.



**ORDINANCE NO. 2015-\_\_\_\_\_**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SUISUN CITY,  
CALIFORNIA LEVYING SPECIAL TAX WITHIN CITY OF SUISUN CITY  
COMMUNITY FACILITIES DISTRICT NO. 2 (MUNICIPAL SERVICES),  
INCLUDING CERTAIN ANNEXATION TERRITORY**

**WHEREAS**, the City of Suisun City (the "City") previously conducted proceedings pursuant to the Mello-Roos Community Facilities Act, Chapter 2.5 of Part 1 of Division 2 of Title 5, commencing with Section 53311, of the California Government Code (the "Act") to establish "City of Suisun City Community Facilities District No. 2 (Municipal Services)" (the "CFD") for the purpose of financing certain municipal services (the "Services") as provided in the Act; and

**WHEREAS**, the CFD was established pursuant to City Council Resolution 2005-89, which was adopted on November 15, 2005 (the "Resolution of Formation"); and

**WHEREAS**, the rate and method of apportionment of special tax for the CFD (the "Original Rate and Method") is set forth in Exhibit B to the Resolution of Formation; and

**WHEREAS**, the Original Rate and Method has been subsequently supplemented, including by City Council Resolution No. 2006-44 which added Tax Zone No. 3 to the Original Rate and Method (as so supplemented to date, the "Rate and Method"); and

**WHEREAS**, the City has conducted proceedings under the Act to annex territory into the CFD and, in connection therewith, add such annexed territory into Tax Zone No. 3 under and pursuant to the Rate and Method.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SUISUN CITY** as follows:

**SECTION ONE:** By the passage of this Ordinance, pursuant to the Act, the Council hereby authorizes and levies the special tax within the CFD (the "Special Tax"), including all territory annexed into the CFD, at the rate and in accordance with the method set forth in the Rate and Method, which by this reference is hereby incorporated herein.

**SECTION TWO:** The City Manager or designee, or an employee or consultant of the City, is hereby authorized and directed each fiscal year to determine the specific Special Tax to be levied for the next ensuing fiscal year for each parcel of real property within the CFD, including all territory annexed to the CFD prior to the date hereof, in the manner and as provided in the Rate and Method.

**SECTION THREE:** Exemptions from the levy of the Special Tax shall be as provided in the Resolution of Formation, the Rate and Method and the applicable provisions of the Act. In no event shall the Special Tax be levied on any parcel within the CFD in excess of the maximum Special Tax specified in the Rate and Method.

**SECTION FOUR:** All of the collections of the Special Tax shall be used as provided in the Act and in the Resolution of Formation, including, but not limited to, the payment of costs of the Services, the payment of the costs of the City in administering the CFD, and the costs of collecting and administering the Special Tax.

**SECTION FIVE:** The Special Tax shall be collected in the same manner as ordinary ad valorem taxes are collected and shall have the same lien priority, and be subject to the same penalties and the same procedure and sale in cases of delinquency as provided for ad valorem taxes; provided, however, that the City Manager (or the City Manager's designee) is hereby authorized to bill the Special Taxes directly to any property owner off the secured property tax roll for fiscal year 2015-16 for territory that annexed into the CFD following the deadline for including such Special Taxes on such tax roll. Without limiting the foregoing, the City Manager (or the City Manager's designee) is hereby authorized and directed to provide all necessary information to the auditor/tax collector of the County of Solano in order to effect proper billing and collection of the Special Tax, so that the Special Tax shall be included on the secured property tax roll of the County of Solano for fiscal year 2016-17 and for each fiscal year thereafter, as set forth above, until no longer required to pay for the Services or until otherwise terminated by the City.

**SECTION SIX:** If for any reason any portion of this Ordinance is found to be invalid, or if the Special Tax is found inapplicable to any particular parcel within the CFD, including all territory annexed to the CFD prior to the date hereof, by a court of competent jurisdiction, the balance of this Ordinance and the application of the Special Tax to the remaining parcels within the CFD, including all territory annexed to the CFD prior to the date hereof, shall not be affected.

**SECTION SEVEN:** The Mayor shall sign this Ordinance and the City Clerk shall cause the same to be published within 15 days after its passage at least once in a newspaper of general circulation circulated in the City.

**SECTION EIGHT:** The City Council hereby ratifies previous levies of Special Taxes within the CFD pursuant to the Act, at the rate and in accordance with the Rate and Method. The City Council affirms the provisions of Ordinance No. 684, passed and adopted by the City Council on December 6, 2005, except to the extent any terms of such Ordinance are inconsistent with the provisions of this Ordinance, in which case the terms of this Ordinance shall govern.

**SECTION NINE:** This Ordinance shall become effective (30) days following its passage and adoption and shall be published once within fifteen (15) days upon passage and adoption in a newspaper of general circulation in the City of Suisun City, County of Solano.

**PASSED, APPROVED, AND ADOPTED** as an Ordinance at a regular meeting of the City Council of the City of Suisun City, California, on this 3<sup>rd</sup> day of November 2015.

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Pete Sanchez  
Mayor

**CERTIFICATION**

I, Linda Hobson, City Clerk of the City of Suisun City, California, do hereby certify that the foregoing Ordinance was introduced at a regular meeting of the City Council on October 20, 2015 and passed, approved, and adopted by the City Council of the City of Suisun City at a regular meeting held on the 3<sup>rd</sup> day of November 2015 by the following vote:

**AYES:** Councilmembers:

**NOES:** Councilmembers:

**ABSENT:** Councilmembers:

**ABSTAIN:** Councilmembers:

**WITNESS** my hand and the seal of said City this 3<sup>rd</sup> day of November 2015.

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Linda Hobson, CMC  
City Clerk

