



Planning Department
168 North Edwards Street
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MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) PERFORMANCE COMPLIANCE FORM

Requires a \$210 Deposit Fee

FOR PROJECTS WITH GREATER THAN 2,500 SQ FT OF TOTAL LANDSCAPE AREA APPLICANT

RESPONSIBLE FOR HIRING THIRD-PARTY IRRIGATION AUDITOR

Applicant Information

Name: _____
Phone: _____
Address: _____
Email: _____

Project

Site Address: _____

APN: _____

Project Type: Residential Non-residential Rehabilitation

This project does incorporate landscaping greater than 2500 sq. ft. and will be using this form to identify prescriptive requirements which will be included as part of the landscape project. (Please provide the information below specific to the landscape area and identify the location on the plans using the MWELO CHECKLIST below):

Total Landscape Area (sq. ft.): _____ Turf Area (sq. ft.): _____

Non-Turf Plan Area (sq. ft.): _____ Special Landscape Area* (sq. ft.): _____

Water Type (potable, recycled, well): _____

Name of water purveyor - retail water service provider (If not served by private well):

Note: Landscape area includes 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 foot prints of buildings or structures, sidewalks, driveways, parking lots, decks, patios, gravel or stone walks, other pervious or non-pervious hardscape, and other non-irrigated areas designated for non-development (e.g., open spaces and existing native vegetation).

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet to be filled project applicant and it is a required element of the Landscape Documentation Package. The applicant must use the water budget calculator found at the Department of Water Resources webpage:

<https://www.water.ca.gov/Programs/Water-Use-And-Efficiency/Urban-Water-Use-Efficiency>

Reference Evapotranspiration (ET_o)

Hydrozone # /Planting Description	Plant Factor (PF)	Irrigation Method ^b	Irrigation Efficiency (IE) ^c	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU) ^e
Regular Landscape Areas							
				Totals	(A)	(B)	
Special Landscape Areas							
				1			
				1			
				1			
				Totals	(C)	(D)	
						ETWU Total	
						Maximum Allowed Water Allowance (MAWA)^e	

^a **Hydrozone #/Planting Description**

E.g

1.) front lawn

2.) low water use plantings

3.) medium water use planting

^b **Irrigation Method**

overhead spray
or drip

^c **Irrigation Efficiency**

0.75 for spray head
0.81 for drip

^d **ETWU (Annual Gallons Required) = Eto x 0.62 x ETAF x Area**

where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.

^e **MAWA (Annual Gallons Allowed) = (Eto) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]**

where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

Landscape Design Plan - Must contain the following statement "I have complied with the criteria of the ordinance and applied them to the efficient use of the water in the landscape design plan." Signed by a licensed landscape architect, licensed contractor, or any other person authorized to design a landscape.

APPLICANT	ITEM	REVIEWER		LOCATION ON PLANS
		PASS	FAIL	
	1. Plant legend listing common name, botanical name, quantities, mature plant size, water use or plant factor of each plant, and source of information for plant water use			
	2. High water use planting areas			
	3. Moderate water use planting areas			
	4. Low water use planting areas			
	5. Stormwater labeled treatment areas, including type, size and installation details			
	6. Rain harvesting or catchment technologies			
	7. Graywater discharge piping, system components and area(s) of distribution			
	8. Hardscape labeled as pervious or non-pervious			
	9. Recreation areas			
	10. Water features including swimming pools			
	11. Areas irrigated with recycled water			
	12. Areas dedicated solely to edible plants			

Irrigation Design Plan

APPLICANT	ITEM	REVIEWER		LOCATION ON PLANS
		PASS	FAIL	
	1. Automatic irrigation controllers are required and must use evapotranspiration or soil moisture data and utilize a rain, freezing and wind sensors			
	2. Pressure regulators are installed on the irrigation system to ensure dynamic pressure of the components are within the manufacturer's recommended pressure range			
	3. Check valves or anti-drain valves are required on all sprinkler heads where low point drainage could occur.			
	4. Irrigation system design to prevent runoff, low head drainage, overspray, or the similar conditions where irrigation water flows onto non-targeted areas			
	5. Manual-shut-off valves (such as gate, ball or butterfly valves) are installed as close as possible to the point of connection of the water supply			
	6. Location, type and size of the following:			
	a. Water meters			
	b. Main lines			
	c. Lateral lines			
	d. Quick couplers			
	e. Valves (stations), including:			
	I. Flow rate (gmp)			
	II. Application rates (in/hr)			
	III. Design operating pressure (pounds per square inch) for each station			
	f. Sprinkler heads			
	g. Backflow prevention devices			
	7. 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 must have a distribution uniformity low quarter of 0.65 or higher using the protocol defined in ASABE/ICC 802-2014.			
	8. Projects with 5,000 square feet or greater total landscape area shall have identified flow sensors			
	9. For non-residential projects with landscape areas of 1,000 square feet or more dedicated water meter or sub- meter(s) to measure landscape water use shall be installed.			
	10. For residential projects with landscape areas of 5,000 square feet or more dedicated water meter or sub- meter(s) to measure landscape water use shall be installed.			
	11. Cross-check landscape plan and irrigation plan to verify low volume irrigation (drip) are used in mulched planting areas (no spray irrigation)			

	12. Areas less than 10 feet in width in any direction shall be irrigated with subsurface irrigation or other means that produces no runoff or overspray.			
	13. Verify no sprinklers (spray or rotors) are located within 24 inches of non-permeable surface			
	14. Demonstrate trees are on separate valves (separate tree valve is optional, but recommended)			
	15. Verify irrigation design matches hydrozones shown on Hydrozone Plan and/or Landscape Design Plan			

Hydrozones (See Landscape Design Plan or Irrigation Design Plan)

APPLICANT	ITEM	REVIEWER		LOCATION ON PLANS
		PASS	FAIL	
	1. Hydrozone information on the water budget matches landscape plans:			
	a. Hydrozones are delineated and marked by number, letter or other designation			
	b. Hydrozone are identified as low, moderate, high water or mixed water use			
	c. No hydrozone has a mix of high (PF= 0.7 – 1.0) and low (PF= 0.1 -0.3) water use plants			
	d. No plant with a plant factor of 0.7 or greater is located in street medians			
	2. Water features shown on landscape plans are included as high water use hydrozones in the plans and in the water budget			
	3. Temporarily irrigated areas are included in the low water use hydrozones on the plans and on the water budget			

Soil, Compost and Mulch - Must provide delivery tags and receipts for compost and mulch.

APPLICANT	ITEM	REVIEWER		LOCATION ON PLANS
		PASS	FAIL	
	1. Incorporate compost at a rate of at least 4 cubic yards per 1,000 square feet to a depth of 6 inches into the landscape area (unless contra-indicated by a soil test).			
	2. A minimum 3-inch layer of recycled mulch shall be applied on all exposed soil surfaces of planting areas except turf areas, or direct seeding applications where mulch is contraindicated, or prohibited by local fire regulations, gravel or stone may be used			
	3. Recycled content mulch is aged tree trimmings, arbor mulch, pallet mulch or composted mulch.			

Soil Management Report

APPLICANT	ITEM	REVIEWER		LOCATION ON PLANS
		PASS	FAIL	
	1. Attach soil analysis report of the soil in planting areas from a soil lab if there is no mass grading during construction (otherwise submit report after construction with Certificate of Completion)			
	2. The soil sample follows laboratory protocol and includes:			
	a. Soil texture			
	b. Infiltration rate			
	c. pH			
	d. Total soluble salts			
	e. Sodium			
	f. Percent soil organic matter			
	g. Amendment recommendations: including use of compost at a minimum of 4 cubic yards per 1,000square feet - <u>Must provide delivery tags and receipts for compost and mulch.</u>			

Grading Design Plan

APPLICANT	ITEM	REVIEWER		LOCATION ON PLANS
		PASS	FAIL	
	1. Check the grading plan for finished configurations and elevations of the landscape area including			
	a. Height of graded slopes			
	b. Drainage patters			
	c. Pad elevations			
	d. Finish grade			
	e. Stormwater retention improvements (if applicable)			
	2. On slopes greater than 25%, cross-check the Grading Design Plan and Irrigation Design Plan to verify slopes are not irrigated with an application rate exceeding 0.75 inches per hour			

Plants

APPLICANT	ITEM	REVIEWER		LOCATION ON PLANS
		PASS	FAIL	
	1. Plant material shall comply with the following:			
	a. Residential projects only:			
	I. 75% of landscape area shall consist of plants that use little or no summer water (WUCOLS plant factor of 0.3 or lower), excluding edibles or areas using recycled water.			
	II. No more than 25% of the landscape area will be planted with high water using plants			
	b. Non-residential projects only (including multifamily residential):			
	I. 100% of the landscape area shall consist of plants that use little or no summer water (WUCOLS plant factor of 0.3 or lower), excluding edibles or areas using recycled water			
	c. No invasive plants are planted. No plant species listed by the California Invasive Plant Council's "Don't Plant a Pest" brochure as invasive in the San Francisco Bay Area shall be planted.			
	2. The use of turf shall comply with all of the following:			
	a. In nonresidential areas, turf is not used			
	b. In residential areas:			
	I. Turf, high water use plants, and water features shall, combined, not exceed 25% of the landscape area			
	II. Turf shall not be planted on slopes which exceed a slope of 1 foot vertical elevation change for every 4 feet or horizontal length			
	III. Turf is prohibited in parkways less than 10 feet wide. Exception: Parkway is adjacent to a parking strip and used to exit and enter vehicles AND turf is irrigated with subsurface irrigation			
	<p><i>WUCOLS plants database can be found online at:</i></p> <p>http://ucanr.edu/sites/WUCOLS/ "Don't Plant a Pest" brochure can be found at http://cal-ipc.org/landscaping/dpp/</p>			

Signature

I agree to comply with the requirements of the water efficient landscape ordinance and submit a complete Landscape Document Package.

Signature of Applicant or Property Owner or authorized representative

Date



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CERTIFICATE OF COMPLETION - Performance Path **MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO)**

Applicant Information

Name: _____
Title & Company: _____
Name: _____
Phone: _____
Address: _____
Email: _____

Project Information

Date: _____
Project Name: _____
Project Site Address: _____
Parcel or Lot Number: _____

Owner Information

Owner Name: _____
Owner Phone Number: _____
Owner Address: _____
Owner Email: _____

Property Owner Certification

"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 my/our responsibility to see that the project is maintained in accordance with the Landscape and Irrigation Maintenance Schedule."

Property Owner Signature

Date



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CERTIFICATE OF INSTALLATION MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO)

*To be signed by the signer of the Landscape Design Plan or the Irrigation Design Plan or by the
licensed landscape contractor*

"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. As-built drawings have been provided to document any major modifications of the approved Landscape Documentation Package. Significant changes made during construction comply with the ordinance."

Professional/Contractor Signature: _____

Date: _____

Print Name: _____

License Number: _____

Additional Modifications

Applicant: If major modifications were made in construction from the submitted plans, attach record drawings (as-builts)

No major modifications

As-builts attached

ADDITIONAL ATTACHMENTS

☐ **IRRIGATION SCHEDULING**

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

☐ **SCHEDULE OF LANDSCAPE AND IRRIGATION MAINTENANCE**

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

☐ **LANDSCAPE IRRIGATION AUDIT REPORT - APPLICANT RESPONSIBLE FOR HIRING THIRD-PARTY IRRIGATION AUDITOR**

Attach schedule of Landscape and Maintenance per ordinance Section 492.12.*

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.*

* California Code of Regulations, Title 23, Division 2, Chapter 2.7 Model Water Efficient Landscape Ordinance

[https://govt.westlaw.com/calregs/Browse/Home/California/CaliforniaCodeofRegulations?](https://govt.westlaw.com/calregs/Browse/Home/California/CaliforniaCodeofRegulations?guid=IBBB0A9505B6E11EC9451000D3A7C4BC3&originationContext=documenttoc&transitionType=Default&contextData=(sc.Default))

[guid=IBBB0A9505B6E](https://govt.westlaw.com/calregs/Browse/Home/California/CaliforniaCodeofRegulations?guid=IBBB0A9505B6E11EC9451000D3A7C4BC3&originationContext=documenttoc&transitionType=Default&contextData=(sc.Default))

[11EC9451000D3A7C4BC3&originationContext=documenttoc&transitionType=Default&contextData=\(sc.Default\)](https://govt.westlaw.com/calregs/Browse/Home/California/CaliforniaCodeofRegulations?guid=IBBB0A9505B6E11EC9451000D3A7C4BC3&originationContext=documenttoc&transitionType=Default&contextData=(sc.Default))



8) Copy of the worksheet placed in controller cabinet: Yes No

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



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SCHEDULE OF LANDSCAPE AND IRRIGATION MAINTENANCE

Project Address: _____

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
	1. Attach schedule of maintenance for the landscape and irrigation system per ordinance to ensure water efficiency. The attached schedule of landscape maintenance includes:		
	a. Routine inspection, auditing, adjusting and repair of the irrigation system		
	b. Aerating and dethatching turf areas		
	c. Topdressing planting areas with compost as needed		
	d. Replenishing mulch		
	e. Pruning and weeding		
	f. Routine inspection, auditing, adjusting and repair of the irrigation system		
	2. Attach landscape irrigation audit report		
	3. Attach landscape irrigation audit checklist		
	4. The irrigation audit was conducted by a third-party certified Irrigation Auditor professional who is not a part of the design team		
	5. Irrigation items identified for repair in the audit are fixed		
	6. In large project or projects with multiple landscape installations (i.e. production home developments) an auditing rate of 1 in 7 lots or 15% is conducted		



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LANDSCAPE IRRIGATION AUDIT CHECKLIST

~~5 DD@7 5 BH'F9GDCBG-6 @': CF'<-F-B; 'H<-F8!D5 FHM~~
~~-FF= 5 HCB'5! 8-HCF~~

A. Project & Auditor Information

Inspection Date _____
Project Name _____
Project Address _____
Application Number _____
Irrigation Auditor Name _____
Irrigation Auditor Company _____
Irrigation Auditor Phone # _____
Irrigation Auditor Email _____

Auditor Certified by EPA Water Sense program:

Irrigation Association
QWEL
CLCA WMCP
G3 Watershed Wise Professional
Other EPA Certified _____

Note: For large projects or projects with multiple landscape installations (i.e. production home developments), an auditing rate of 1 in 7 lots or approximately 15% satisfies the audit requirement.

Meter Type & Location	Static Water Pressure	Manual Shutoff
Customer Service Water Meter Submeter	_____ PSI	Yes No
Location _____		

Backflow Prevention	Master Valve	Flow Sensor
RP AVB Anti-siphon DCVA	Yes No	Yes No
Location _____ _____	Location _____ _____	Location _____ _____
Location _____ _____		Connected to Master Valve? Yes No

Pressure Reducing Valve Yes No	Controller Type	Controller set to Establishment Yes No
Location _____	WBIC Soil	
Mulch Yes No	Total Number of Active Stations	Irrigation Schedule Posted Yes No
	Hydrozone Map kept with controller Yes No	

Controller Station No.	SQ. FT.	Plant Type	Sun Exposure	Slope	Soil Type	Irrigation Method	Zone Pressure	Water Type
							1. 2. 3.	
							1. 2. 3.	
							1. 2. 3.	
							1. 2. 3.	
							1. 2. 3.	
							1. 2. 3.	

Plant Type: Turf (T), High (H), Medium (M), Low (L), VL (VL)

Sun Exposure: Full (F), Mostly (M), Partial Sun (PS), Partial Shade (PSH), Full Shade (FSH), Mostly Shade (MSH)

Slope: None (N), Steep (S), Gentle (G)

Soil Type: Clay (C), Clay/Loam (CL), Loam (L), Sandy (S), Sandy/loam (SL)

Irrigation Method: Drip (D), Spray (S), Rotating Nozzles (RN), Rotor (R), Bubbler (B), Microspray (M)

Water Type: Potable (P), Recycled (R), Graywater (G), Stormwater (S)

Note: Zone Pressure taken at beginning (1), middle (2) and end (3) of audit

Note: Microspray does not comply with MWELO

Distribution Uniformity Test (DU)

Catch-can Test Station Number _____ DU _____

WM _____ IE _____

DU (Condition of System) = Avg. of LQ/Avg. of DU
WM/TRM (Water Management Percentage also called Run Time Multiplier)
IE (Irrigation Efficiency) = DU*WM

B. Audit Report

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
	1. Separate landscape customer service water meter or private submeter has been installed as applicable:		
	a. Non-residential projects: Greater than 1,000 sf landscape area		
	b. Residential projects: Greater than 5,000 sf landscape area		
	2. The irrigation audit report includes:		
	a. System inspection		
	b. Inspect for leaks		
	c. System tune-up		
	d. Test the operating pressure of the irrigation system		
	e. Test to determine distribution uniformity		
	f. Test to determine precipitation rate of representative overhead irrigation valves		
	g. Confirm matched precipitation rates on valves with sprinkler heads, rotors and other emission devices		
	h. Report of any overspray or broken irrigation equipment		
	i. Report of overspray or run off that causes overland flow		

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
	j. Written recommendations to improve performance of the irrigation system		
	k. 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		
	l. Other: _____		

C. Irrigation Equipment

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
	1. Irrigation equipment is installed (location, type and size) as shown in the approved plans:		
	a. Automatic controller is ET-based or soil moisture-based and includes:		
	I. Irrigation scheduling parameters		
	II. Hydrozone map		
	b. Sensors installed include rain, frost (if necessary) and wind sensors (if necessary)		
	c. Point of connection includes:		
	I. Backflow prevention devices (if necessary)		
	II. Manual shut-off valve (gate, ball, butterfly valve)		
	III. Master shut-off valve		
	IV. Flow sensor for landscapes over 5,000 sf only		
	d. Valves (station)		
	I. Flow rate (gpm)		
	II. Application rates (in/hr)		
	III. Design operating pressure:		
	e. If static pressure is above or below required dynamic pressure of the system, pressure-regulating devices are installed		
	2. Main and laterallines		

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
	3. Sprinklers		
	a. No spray heads within 24 inches of non-permeable surface		
	b. Sprinkler heads and other emission devices have matched precipitation rates		
	c. Swing joints or other riser protection provided in high traffic areas and areas near hardscape		
	4. Drip		
	a. Emitter type and model match plan		
	b. Emitter location around plants		
	c. Operating pressure checked		
	d. Valve matches plan, specifications, height, flow rate		
	e. Valve box properly set and identified		
	f. Filter installed and serviceable		
	g. Pressure regulator installed		
	h. Wire connections meet specifications		
	i. Proper pipe type and size installed		
	j. Piping is anchored or buried as per specifications		
	k. Flush plugs are installed		
	l. Drip system activated by controller		
	m. Piping is anchored or buried as per specifications		
	5. Low volume irrigation (drip, drip lines, and bubblers) is used in mulched planting areas (no spray irrigation) and in areas less than 10 feet wide		

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
	6. Slopes greater than 25% are irrigated with an application rate not exceeding 0.75 inches per hour		
	7. Runoff, low head drainage, overspray, or other similar conditions where irrigation water flows onto non-targeted areas are prevented		
	8. Check valves or anti-drain valves are installed to prevent low head drainage		
	9. Pressure regulating devices are used if the static water pressure at the connection of the public water system does not match the water pressure needs of the irrigation system		
	10. Check irrigation legend and manufacturer's online data that sprinkler heads and other emission devices have matched precipitation rates		
	11. Confirm that swing joints or other riser protection are provided in high traffic areas and areas near hardscape		

D. Hydrozones

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
	1. Match on the landscape plan and irrigation plan		
	2. Are irrigated by valves with similar site, slope, sun exposure, soil conditions, and plant materials with similar water use		
	3. Trees are on separate valves		
	4. Bio-treatment areas are on separate valves		

E. Water Features

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
	1. Use recirculating water systems		
	2. Use recycled water if available		

F. Irrigation Schedules

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
	1. Irrigation schedules have been developed, managed, and evaluated to utilize the minimum amount of water required to maintain plant health. Irrigation schedules shall meet the following criteria:		
	a. Irrigation scheduling is regulated by automatic irrigation controllers		
	b. Overhead irrigation is scheduled between 8:00 p.m. and 10:00 a.m. unless weather conditions prevent it		
	c. Irrigation schedules shall be regulated by automatic irrigation controllers using current reference evapotranspiration data (e.g., CIMIS) or soil moisture sensor data		
	2. The irrigation schedules have been developed to include the parameters used to set the automatic controller and are submitted for each of the following:		
	a. Plant establishment period		
	b. Established landscape		
	c. Temporarily irrigated areas		
	3. Each irrigation schedule includes the following that apply for each station (valve):		
	a. Irrigation interval (days between irrigation)		

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
	b. Irrigation run times (hours or minutes per irrigation event to avoid runoff)		
	c. Number of cycle starts required for each irrigation event to avoid runoff		
	d. Amount of applied water scheduled to be applied on a monthly basis		
	e. Application rate setting		
	f. Root depth setting		
	g. Plant type setting		
	h. Soiltype		
	i. Slope factor setting		
	j. Shade factor setting		
	k. Irrigation uniformity or efficiency setting		

G. Reviewer Comments



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LANDSCAPE INSPECTION CHECKLIST

Inspection Date _____

Application Number _____

Project Name _____

Project Address _____

Contact Name _____

Contact Phone Number _____

Inspector Name _____

APPLICANT		ITEM	AUDITOR			
			PASS	FAIL	CORRECTED	N/A
		1. Installed planting matches Landscape Design Plan				
		2. No turf on slopes over 25%				
		3. No turf in planting areas less than 10 feet wide				
		4. No invasive plants are installed (http://cal-ipc.org/landscaping/dpp/)				
		5. Delivery tags/receipts for compost submitted verifying a rate of 4 CY/1,000 sf or as prescribed by soil lab recommendations				
		6. 3 inches of mulch installed in all non-turf planting areas, unless prohibited by fire code				
		7. Mulch is aged tree trimmings, pallet mulch, or composted mulch				
		8. Water features as installed match Landscape Design Plan				

	9. Rain harvesting technology as installed matches Landscape Design Plan				
	10. Graywater system as installed matches plans				

Reviewer Comments:

[Home](#) [Title 23. Waters](#) [Division 2. Department of Water Resources](#)

Chapter 2.7. Model Water Efficient Landscape Ordinance

[§ 490. Purpose.](#)

[§ 490.1. General Provisions.](#)

[§ 490.2. Definitions.](#)

[§ 491. Applicability.](#)

[§ 491.1. Provisions for Existing Non-Rehabilitated Landscapes.](#)

[§ 491.2. Provisions for New Construction or Rehabilitated Landscapes.](#)

[§ 491.3. Compliance Responsibilities.](#)

[§ 491.4. Elements of the Landscape Documentation Package.](#)

[§ 492. Prescriptive Compliance Option.](#)

[§ 492.1. Compliance with Landscape Documentation Package. \[Repealed\]](#)

[§ 492.2. Penalties. \[Repealed\]](#)

[§ 492.3. Elements of the Landscape Documentation Package. \[Repealed\]](#)

[§ 492.4. Water Efficient Landscape Worksheet. \[Repealed\]](#)

[§ 492.5. Soil Management Report. \[Repealed\]](#)

[§ 492.6. Landscape Design Plan. \[Repealed\]](#)

[§ 492.7. Irrigation Design Plan. \[Repealed\]](#)

[§ 492.8. Grading Design Plan. \[Repealed\]](#)

[§ 492.9. Certificate of Completion. \[Repealed\]](#)

[§ 492.10. Irrigation Scheduling. \[Repealed\]](#)

[§ 492.11. Landscape and Irrigation Maintenance Schedule. \[Repealed\]](#)

[§ 492.12. Irrigation Audit, Irrigation Survey, and Irrigation Water Use Analysis. \[Repealed\]](#)

[§ 492.13. Irrigation Efficiency. \[Repealed\]](#)

[§ 492.14. Recycled Water. \[Repealed\]](#)

[§ 492.15. Graywater Systems. \[Repealed\]](#)

[§ 492.16. Stormwater Management and Rainwater Retention. \[Repealed\]](#)

[§ 492.17. Public Education. \[Repealed\]](#)

[§ 492.18. Environmental Review. \[Repealed\]](#)

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§ 490. Purpose.

23 CAADC § 490

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 490

§ 490. Purpose.

[Currentness](#)

(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;
- (5) that landscape design, installation, maintenance and management can and should be water efficient;
- (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 Water Efficient Landscape Ordinance (herein after referred to as, "MWELO" or "model ordinance" for purposes of this Chapter 2.7) is to:

- (1) promote the values and benefits of landscaping practices that integrate and go beyond the conservation and efficient use of water;
- (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 water 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 that is at least as efficient as the Model Water Efficient 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 MWELO, 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.

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. New chapter 2.7 (sections 490-495) filed 7-31-92; operative 7-31-92 (Register 92, No. 32).
2. Amendment of section and NOTE filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
3. Amendment of subsections (a)(4) and (b)(1)-(2), new subsections (c)-(c)(5) and amendment of NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
4. Amendment of subsections (b), (b)(4), (b)(7), (c) and (c)(2) and amendment of NOTE filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 490, 23 CA ADC § 490

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§ 490.1. General Provisions.

23 CA ADC § 490.1

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 490.1

§ 490.1. General Provisions.

[Currentness](#)

(a) General provisions are related statutes, regulations, and other considerations for landscape projects subject to the MWELO as described in Section 491. Sections 490.1(a)(3) and (4) should be reviewed to determine applicability.

(1) Designation of Responsibility. 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 model ordinance. Local agencies may collaborate with water purveyors to define each entity's specific responsibilities relating to this model ordinance.

(2) Water Waste Prevention. Local agencies shall prevent water waste resulting from inefficient landscape irrigation. Penalties for violation of these prohibitions shall be established locally.

(3) Recycled Water.

(A) All recycled water use is subject to applicable provisions of the California Code of Regulations (Cal. Code Regs.), Titles 17 and 22, the California Plumbing Code (Cal. Code Regs., Title 24, Part 5, Chapter 15), and all applicable local and State laws.

(B) The installation of recycled water irrigation systems shall allow for the current and future use of recycled water.

(C) Landscape areas using recycled water are considered Special Landscape Areas, as defined in Section 490.2(a)(79).

(4) Gray water Systems. All gray water systems are required to conform to the California Plumbing Code (Cal. Code Regs., Title 24, Part 5, Chapter 15) and any applicable local ordinance standards.

(A) Gray water systems promote the efficient use of water and are encouraged to assist in on-site landscape irrigation.

(B) For projects using treated or untreated gray water, any lot or parcel within the project that has less than 2,500 sq. ft. of landscape area and meets the lot or parcel's landscape water requirement (Estimated Total Water Use) entirely with gray water is subject only to Section 492(c)(2).

(5) Stormwater Management and Rainwater Retention.

(A) Project applicants shall refer to the local agency or Regional Water Quality Control Board for information on any applicable stormwater technical requirements.

(B) All nonpotable rainwater catchment systems are required to conform to the California Plumbing Code (Cal. Code Regs., Title 24, Part 5, Chapter 16).

(C) All landscape areas are required to have friable soil to maximize water retention and infiltration. Refer to Section 493.1.

(D) For projects using rainwater captured on site, any lot or parcel within the project that has less than 2,500 sq. ft. of landscape area and meets the lot or parcel's landscape water requirement (Estimated Total Water Use) entirely through stored rainwater captured on site is subject only to Section 492(c)(2).

(E) 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:

1. the one inch, 24-hour rain event, or
2. the 85th percentile, 24-hour rain event, and/or additional capacity as required by any applicable local, regional, state or federal regulation.

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

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

(6) Fire Safe Landscaping.

(A) A landscape design plan for development and construction in Local Responsibility Areas designated as Very High Fire Hazard Severity Zones and areas designated by the Board of Forestry and Fire Protection as State Responsibility Areas are required to comply with the California Fire Code (Cal. Code Regs., Title 24, Part 9, Chapter 49) "Requirements for Wildland-Urban Interface Fire Areas."

(B) Public Resources Code section 4291(a) and (b) describes the requirements for a person who owns, leases, controls, operates, or maintains a building or structure in, upon, or adjoining a mountainous area, forest-covered lands, shrub-covered lands, grass-covered lands, or land that is covered with flammable material to address fire safety and prevention by maintaining a defensible space or zone around a building or structure.

1. Avoid fire-prone plant materials and highly flammable mulches.

(C) Local Fuel Modification Plan guidelines may prescribe additional requirements per Public Resources Code section 4291(a) and (b).

(7) Plant Selection.

(A) Any plant may be selected for the landscape project provided that the requirements of the selected compliance option are met.

(B) Select trees based on applicable local tree ordinances or tree shading guidelines, and size at maturity as appropriate for the planting area.

(C) The use of invasive plant species, such as those listed by the California Invasive Plant Council, is strongly discouraged.

1. Pursuant to Food and Agricultural Code section 52334, the declaration of a plant, seed, nursery stock, or crop as invasive is a power reserved for the Secretary of the California Department of Food and Agriculture.

(8) The architectural guidelines of a common interest development, which include community apartment projects, condominium projects, 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 (Civil Code sections 4100 and 4735).

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

(10) Penalties. A local agency may establish and administer penalties to the project applicant for non-compliance with the MWELO to the extent permitted by law.

(11) Public Education. 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.

(A) 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.

(12) Model Homes. All model homes that are landscaped shall display signs that provide information demonstrating the principles of water efficient landscapes described in this model ordinance.

(A) Signs shall be used to identify the model home as an example of a water efficient landscape. Signage shall include:

1. fundamental water efficient landscape elements such as hydrozones, irrigation equipment, native plants, gray water systems, rainwater catchment systems, and other elements as applicable that contribute to the overall water efficient theme.
2. information about the site water use budget as designed per the local ordinance; specify who designed and installed the water efficient landscape.

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

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
3. Repealer and new section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 490.1, 23 CA ADC § 490.1

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§ 490.2. Definitions.

23 CA ADC § 490.2

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 490.2

§ 490.2. Definitions.

[Currentness](#)

(a) The terms used in this model ordinance have the meaning set forth below:

- (1) "applied water" means the portion of water supplied by the irrigation system to the landscape.
- (2) "applicant signature" means the signature of the property owner or their designee.
- (3) "application rate" or "precipitation rate" means the rate at which an irrigation system applies water to a given area by an emission device(s), it is usually expressed as depth or volume per unit time (i.e., inches per hour or gallons per hour). Application rate is generally used with drip irrigation while precipitation rate is generally used with overhead irrigation.
- (4) "automatic irrigation controller" means a timing device with stations that can be used to remotely control valves that operate an irrigation system. For the purposes of this model ordinance, automatic irrigation controllers are able to self-adjust and schedule irrigation events using either evapotranspiration (weather-based) or soil moisture (sensor-based) data.
- (5) "backflow prevention device" means a safety device required by the California Plumbing Code (California Code of Regulations, Title 24, Part 5, Chapter 6) used to prevent pollution or contamination of the water supply due to the reverse flow of water from the irrigation system.
- (6) "Certificate of Completion Package" means the document with the required elements pursuant to Section 494.
- (7) "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 labeled by the US Environmental Protection Agency's WaterSense professional certification program, July 2014, which is herein incorporated by reference.
- (8) "check valve" or "anti-drain valve" means a valve used in a pipeline or emission device that holds water in the system to prevent drainage from emission devices when the system is off.
- (9) "common interest developments" means community apartment projects, condominium projects, planned developments, and stock cooperatives per Civil Code section 4100 and applies to this model ordinance when there is a separate interest coupled with an interest in the common area or membership in the association per Chapter 2 (commencing with Section 4200), Part 5 of the Civil Code.
- (10) "compost" means the safe and stable product of controlled biologic decomposition of organic materials that is beneficial to plant growth.
- (11) "conversion factor (0.62)" means the number used in the Maximum Applied Water Allowance (MAWA) calculation that converts acre-inches per acre per year to gallons per square foot per year.
- (12) "dedicated irrigation meter" means a customer service meter dedicated to landscape use provided by the local water purveyor.
- (13) "designee" means a person or entity authorized to sign documents on behalf of the project applicant.

(14) “designer of record,” for the purposes of this model ordinance means the person, professional practitioner, or project applicant functioning and providing services in compliance with Division 3, Chapter 3.5, Article 3 of the Business and Professions Code.

(15) “design review” means review by the jurisdiction having authority for enforcing the model water efficient landscape ordinance.

(16) “distribution uniformity” means the measure of the uniformity of irrigation water over a defined area.

(17) “drip irrigation” means any non-spray low volume irrigation system utilizing emission devices where water is slowly applied at or below the soil surface and at or near the root zone of plants. Drip irrigation emission devices have a manufacturer specification for flow rate measured in gallons per hour.

(18) “dynamic pressure” means the measure of water pressure with the water in motion, also known as working pressure.

(19) “ecological restoration project” means a project where the site is intentionally altered to establish a defined, indigenous, historic ecosystem.

(20) “effective precipitation” (Eppt) means the portion of total precipitation which becomes available for plant growth.

(21) “emission device” means an irrigation system component that dispenses water to the landscape.

(22) “established landscape” means the stage 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.

(23) “establishment period of the plants” or “establishment period” 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.

(24) “Estimated Total Water Use” (ETWU) is the sum of each hydrozone's estimated water use (EWU) and means the total water used for the landscape as described in Section 493.3. ETWU must be equal to or below the maximum applied water allowance (MAWA) to comply with MWELO.

(25) “Estimated Water Use” (EWU) is the calculated water used for each hydrozone as described in Section 493.3.

(26) “ET adjustment factor” (ETAF) means a factor 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. The maximum ETAF allowed in the MAWA equation must be equal to or below:

(A) 0.55 for residential regular landscapes areas.

(B) 0.45 for non-residential regular landscape areas.

(C) 1.0 for Special Landscape Areas.

(D) 0.8 for existing non-rehabilitated regular landscape areas over one acre in size installed before December 1, 2015, per Section 491.1.

(27) “evapotranspiration rate” means the quantity of water evaporated from adjacent soil and other surfaces and transpired by plants during a specified time.

(28) “flow rate” means the volume of water per unit of time that flows through pipes, valves, and emission devices, and commonly measured in gallons per minute, gallons per hour, or cubic feet per second.

(29) “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 a compatible automatic irrigation controller, or flow monitor capable of receiving flow signals and operating master valves. For the purposes of this definition, “compatible” means the flow sensor can communicate with the irrigation controller to allow the controller to record and report actual water usage. This combination flow sensor/controller may also function as a privately-owned submeter.

(30) “friable” means a soil condition that is easily crumbled or loosely compacted down to a minimum depth per planting instructions for the plant material, whereby the root structure of newly planted material will be allowed to spread unimpeded.

(31) “Fuel Modification Plan Guideline” means landscaping guidelines from a local fire authority to assist residents and businesses that are developing land or building structures in a fire hazard severity zone as described in Section 490.1(a)(6).

(32) “gray water” 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. “Gray water” includes wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines, and laundry tubs, but does not include wastewater from kitchen sinks or dishwashers per Health and Safety Code section 17922.12.

(33) “hardscapes” means any durable material (pervious and non-pervious).

(34) "hydrozone" means a section of the landscaped area having plants with similar water needs (i.e. "plant factors" as defined in Section 490.2.(a)(64)) and generally similar rooting depth (e.g., turfgrass (shallow to moderate), shrubs (moderate), and trees (deep)). A hydrozone may be irrigated or non-irrigated.

(35) "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).

(36) "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. Lists of invasive plants are maintained by the California Invasive Plant Council in their Inventory and invasive plants and noxious weeds by the USDA in their PLANTS database.

(37) "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 water waste, 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.

(38) "irrigation efficiency" (IE) means the measurement of the amount of water beneficially used divided by the amount of water applied and is expressed as a percentage. Irrigation efficiency is derived from measurements and estimates of irrigation system characteristics and management practices. The average irrigation efficiency used in the Estimated Total Water use equation for purposes of this model ordinance are:

(A) 0.75 for overhead irrigation systems, and

(B) 0.81 for drip irrigation systems.

(39) "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.

(40) "irrigation water use analysis" means an analysis of water use data based on meter readings and billing data.

(41) "landscape area" (LA) means all the irrigated planting areas, turfgrass areas, and water features in a landscape design plan subject to the Maximum Applied Water Allowance calculation. The irrigated planting 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). The landscape area is the sum of the landscape projects' regular landscape areas (RLA) and special landscape areas (SLA). $LA = RLA + SLA$.

(42) "Landscape Documentation Package" means the documents required per the compliance option chosen by the applicant, as described in Section 491.4.

(43) "landscape project" for the purposes of this model ordinance, means the total landscape area, defined in Section 490.2(a)(41), meeting requirements under Section 491 that requires a building or landscape permit, plan check, or design review.

(44) "lateral line" means the water delivery pipeline that supplies water from the valve to the emission devices.

(45) "local agency" means a city or county, or city and county, including a charter city or charter county, that is responsible for adopting and implementing the model ordinance. The local agency is also responsible for the enforcement of this model ordinance.

(46) "local water purveyor" means any entity, including a public agency, city, county, or private water company that provides retail water service.

(47) "low head drainage" means a condition where water partially or completely drains from the lateral line through the emission device after the irrigation cycle is completed.

(48) "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 shut-off valve will greatly reduce any water loss due to a ruptured pipe or leak in the irrigation system.

(49) "matched precipitation rate" or "matched application rate" means that all emission devices within a hydrozone delivers water at a similar precipitation rate per unit of time.

(50) "Maximum Applied Water Allowance" (MAWA) means the upper limit of annual applied water for the established landscaped area as specified in Section 493.3. It is based upon the area's reference evapotranspiration, the maximum ET Adjustment Factor allowed, and the size of the regular landscape area (RLA) and the special landscape area (SLA). $MAWA = (ET_o) \times (0.62) \times [ETAF \times RLA + 1.0 \times SLA]$

(51) "median" is a landscape project area between opposing lanes of traffic that may be unplanted or planted with trees, shrubs, perennials, and ornamental grasses.

(52) "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.

(53) "mulch" means any organic material such as leaves, bark, straw, or compost, applied to the soil surface for the beneficial purposes of reducing evaporation, suppressing weeds, moderating soil temperature, and preventing soil erosion. Mulch includes inorganic mineral materials such as rocks, gravel, or decomposed granite left loose (i.e., may be used for Fire Safe Landscaping).

(54) "multifamily residential landscape" means the landscape area surrounding or associated with any structure designed for human habitation that has been divided into two or more legally created independent living quarters.

(55) "new construction" means, for the purposes of this model ordinance, a new building with a landscape area or other new landscape project, such as a park, playground, or greenbelt without an associated building.

(56) "non-residential landscape" means the landscape area surrounding or associated with commercial, institutional, industrial, and public settings that may have areas designated for recreation or public assembly. It also includes the landscape area associated with common areas of common interest developments with designated recreational areas.

(57) "non-volatile memory" means a type of computer memory used in automatic irrigation controllers that retains stored information after power is removed and will maintain the programmed irrigation schedule after power is restored.

(58) "operating pressure" means the pressure at which the parts of an irrigation system are designed by the manufacturer to operate.

(59) "overhead irrigation systems" means irrigation systems that deliver water through the air.

(60) "overspray" means the irrigation water which is delivered beyond the target area.

(61) "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.

(62) "permit" means an authorizing document issued by local agencies for new construction or rehabilitated landscapes.

(63) "pervious" means any surface or material that allows the passage of water through the material and into the underlying soil.

(64) "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 model ordinance, the plant factor ranges are:

(A) very low water use plants is less than 0.1,

(B) low water use plants is 0.1 to 0.3,

(C) moderate water use plants is 0.4 to 0.6,

(D) high water use plants is 0.7 to 1.0.

Plant factors cited in this model ordinance are derived from the database "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).

(65) "project applicant" means the individual or entity submitting a Landscape Documentation Package required under Section 491.4, to request a permit, plan check, or design review from the local agency. A project applicant may be the property owner or their designee.

(66) "rain sensor" or "rain sensing shutoff device" means a component that automatically interrupts an irrigation event when it rains.

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

(68) "recreational area" means areas designated for active play, recreation or public assembly in parks, sports fields, picnic grounds, amphitheaters, or golf course tees, fairways, roughs, surrounds and greens. Private single-family residential landscapes are not recreational areas.

(69) "recycled water" or "reclaimed water" means treated wastewater of a quality suitable for nonpotable uses such as landscape irrigation and water features, as described in California Code of Regulations, Title 22, Division 4, Chapter 3. This water is not intended for human consumption.

(70) "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 C, and is an estimate of the evapotranspiration of a large field of four- to seven-inch tall, cool-season turfgrass that is well-watered. The annual reference evapotranspiration is used as the basis of determining the Maximum Applied Water Allowances so that regional differences in climate can be accommodated.

- (71) “Regional Water Efficient Landscape Ordinance” means a local model ordinance adopted by two or more local agencies, water suppliers and other interested parties 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.
- (72) “regular landscape area” (RLA) is the portion of the irrigated landscape area that is not a special landscape area. RLA = LA -- SLA.
- (73) “rehabilitated landscape” means any landscape renovation project that requires a permit, plan check, or design review, meets the requirements of Section 491, and the modified landscape area is equal to or greater than 2,500 square feet.
- (74) “riser” means a length of pipe with male nominal pipe threads on each end usually affixed to a lateral or submain supporting a sprinkler head or anti-siphon valve.
- (75) “runoff” means water which is not absorbed by the soil or landscape to which it is applied and flows from the target landscape area. Runoff may result from water that is applied at too great a rate (application rate exceeds infiltration rate), from low head drainage, or when there is a slope.
- (76) “single-family residential landscape” means the landscape areas surrounding or associated with a one or two-family dwelling or townhouse. Swimming pools of single-family residential landscapes are water features and not special landscape areas.
- (77) “soil moisture sensing device” or “soil moisture sensor” means a device that measures the amount of water in the soil and sends a signal to the automatic irrigation controller to interrupt or initiate an irrigation event.
- (78) “soil texture” means the classification of soil based on its percentage of sand, silt, and clay.
- (79) “Special Landscape Area” (SLA) means an irrigated area that may be all or part of the landscape project and is permanently and solely dedicated to edible plants such as orchards and vegetable gardens, recreational areas, areas irrigated with recycled water, or water features using recycled water.
- (80) “sprinkler head” or “sprinkler” means an emission device that applies water by converting water pressure to a high velocity discharge stream or stream(s) through the air by a nozzle (e.g., spray, rotors, and rotators). Sprinklers have a manufacturer specification for flow rate measured in gallons per minute.
- (81) “static water pressure” means the pipeline or municipal water supply pressure when water is not flowing.
- (82) “station” means a hydrozone served by a circuit on an automatic irrigation controller that operates either one valve or a set of valves that operate simultaneously.
- (83) “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.
- (84) “submeter” means a privately owned metering device to measure water applied to the landscape that is installed after the primary utility water meter.
- (85) “turfgrass” means a living ground cover surface of mowed grass.
- (86) “valve” means a device used to control the flow of water in the irrigation system.
- (87) “water budget calculation” means the calculation of a landscape water budget defined by Estimated Water Use (EWU), Estimated Total Water Use (ETWU), and Maximum Applied Water Allowance (MAWA).
- (88) “water conserving plant species” means a plant species identified as having a very low or low plant factor.
- (89) “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.
- (90) “water waste” means the overapplication of water through inefficient landscape irrigation that causes runoff to leave the target landscape area onto adjacent property, non-irrigated landscapes, private and public walkways, roadways, parking lots, or structures. Water waste includes low head drainage, overspray, runoff, or other similar conditions that causes overland flow.
- (91) “watering window” means the days per week and the hours per day irrigation is allowed.
- (92) “WUCOLS” means the Water Use Classification of Landscape Species IV, 2014, which is herein incorporated by reference, and maintained by the California Center for Urban Horticulture, University of California. WUCOLS IV is an online database that classifies and provides regional water needs for commonly available landscape plants.

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596, 65596.5 and 65598, Government Code.

HISTORY

1. New section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 490.2, 23 CA ADC § 490.2

END OF DOCUMENT

[Home Table of Contents](#)**§ 491. Applicability.**

23 CAADC § 491

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 491

§ 491. Applicability.[Currentness](#)

(a) This model ordinance shall apply to all of the following landscape projects:

- (1) New construction projects with a landscape area as defined in Section 490.2(a)(41) equal to or greater than 500 square feet requiring a building or landscape permit, plan check, or design review;
- (2) Rehabilitated landscape projects with a landscape area as defined in Section 490.2(a)(41) equal to or greater than 2,500 square feet requiring a building or landscape permit, plan check, or design review;
- (3) Existing non-rehabilitated landscapes limited to Section 491.1; and
- (4) Cemeteries. Recognizing the special landscape management needs of cemeteries, new and rehabilitated cemeteries are limited to Sections 493.3, 493.5, and 493.6; existing cemeteries are limited to Sections 493 and Section 491.1.

(b) Any project with a landscape area as defined in Section 490.2(a)(41) of 2,500 square feet or less may comply with either the performance requirements of this model ordinance, described in Section 493, or conform to the prescriptive measures contained in Section 492.

(c) This model 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 arboretums open to the public.

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65596, 65596.5 and 65598, Government Code.

HISTORY

1. New section filed 7-31-92; operative 7-31-92 (Register 92, No. 32).
2. Amendment of section and NOTE filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
3. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

4. Repealer and new section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 491, 23 CA ADC § 491

END OF DOCUMENT

[Home Table of Contents](#)**§ 491.1. Provisions for Existing Non-Rehabilitated Landscapes.**

23 CA ADC § 491.1

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 491.1

§ 491.1. Provisions for Existing Non-Rehabilitated Landscapes.[Currentness](#)

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

(1) For all existing non-rehabilitated landscapes 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 non-rehabilitated landscapes.

(A) The Maximum Applied Water Allowance for existing non-rehabilitated landscapes shall be calculated as: $MAWA = (ET_o) \times (0.62) \times (0.8 \times RLA + 1.0 \times SLA)$.

(2) For all existing non-rehabilitated landscapes 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.

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. New section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 491.1, 23 CA ADC § 491.1

END OF DOCUMENT

[Home](#) [Table of Contents](#)§ 491.2. *Provisions for New Construction or Rehabilitated Landscapes.*

23 CA ADC § 491.2

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 491.2

§ 491.2. Provisions for New Construction or Rehabilitated Landscapes.

[Currentness](#)

(a) There are two options for compliance with the Model Water Efficient Landscape Ordinance:

(1) Prescriptive compliance option as described in Sections 491.4(a), 492, and 494(a); or

(2) Performance compliance option as described in Sections 491.4(b), 493, and 494(b).

(b) An applicant may comply with either the prescriptive or performance compliance option for any new construction project with a landscape area between 500 and 2,500 square feet.

(c) An applicant shall use the performance compliance option for any landscape project with a landscape area of 2,500 square feet, or greater.

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. New section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 491.2, 23 CA ADC § 491.2

END OF DOCUMENT

[Home Table of Contents](#)**§ 491.3. Compliance Responsibilities.**

23 CA ADC § 491.3

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 491.3

§ 491.3. Compliance Responsibilities.[Currentness](#)

(a) **Designation of Responsibility.** 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 model ordinance. Local agencies may collaborate with water purveyors to define each entity's specific responsibilities relating to this model ordinance.

(b) **Local Agency.** The local agency is responsible for the enforcement of this model ordinance, including but not limited to, approval of a permit, plan check, or design review of a project.

(1) Prior to construction, the local agency shall:

(A) provide the project applicant with the model ordinance and procedures for permits, plan checks, or design reviews;

(B) review the Landscape Documentation Package submitted by the project applicant;

(C) approve or deny the Landscape Documentation Package;

(D) issue a permit or approve the plan check or design review for the project applicant; and

(E) For the performance compliance option only, upon approval of the Landscape Documentation Package, submit a copy of the Water Efficient Landscape Worksheet (Appendix A) to the local water purveyor.

(c) **Project Applicant.**

(1) Prior to construction, the project applicant shall:

(A) submit a Landscape Documentation Package to the local agency.

(2) Upon approval of the Landscape Documentation Package by the local agency, the project applicant shall:

(A) receive a permit or approval of the plan check or design review and record the date of the permit in the Certificate of Completion;

(B) submit a copy of the approved Landscape Documentation Package along with the record drawings, and any other information to the property owner or their designee unless the property owner is the project applicant; and

(C) for the performance-compliance option only, submit a copy of the Water Efficient Landscape Worksheet (Appendix A) to the local water purveyor.

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. New section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 491.3, 23 CA ADC § 491.3

END OF DOCUMENT

[Home Table of Contents](#)*§ 491.4. Elements of the Landscape Documentation Package.*

23 CA ADC § 491.4

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 491.4

§ 491.4. Elements of the Landscape Documentation Package.[Currentness](#)

(a) Prescriptive Compliance. Submit a Landscape Documentation Package, which includes:

(1) Project information sheet with the following elements:

(A) date the project information sheet is completed;

(B) name of the project applicant;

(C) contact information for the project applicant and property owner;

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

(E) total landscape area (square feet);

(F) project type (e.g., institutional (i.e., public), private, cemetery, homeowner-installed);

(G) 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; and,

(H) applicant signature and date with statement: "I agree to comply with the requirements of the prescriptive compliance option to the MWEL0."

(2) A landscape design plan that includes:

(A) Total landscape area (square feet); and

(B) A breakdown of turfgrass and plant material (e.g., plant legend).

(b) Performance Compliance. The Landscape Documentation Package shall include the following six (6) elements:

(1) Project information sheet that includes:

(A) date the project information sheet is completed;

(B) name of the project applicant;

(C) contact information for the project applicant and property owner;

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

(E) total landscape area (square feet);

(F) project type (e.g., new, rehabilitated, institutional (i.e., public), private, cemetery, homeowner-installed);

(G) 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;

(H) checklist of all documents in Landscape Documentation Package; and,

(I) applicant signature and date with statement: "I agree to comply with the requirements for the performance compliance option of the MWELD and submit a complete Landscape Documentation Package."

(2) soil management report pursuant to Section 493.1;

(3) landscape design plan pursuant to Section 493.2;

(4) grading design plan pursuant to Section 493.2.1;

(5) irrigation design plan pursuant to Section 493.2.2; and

(6) Water Efficient Landscape Worksheet pursuant to Section 493.3;

(A) Maximum Applied Water Allowance (MAWA);

(B) Estimated Water Use (EWU); and

(C) Estimated Total Water Use (ETWU).

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. New section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 491.4, 23 CA ADC § 491.4

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[Home Table of Contents](#)

§ 492. Prescriptive Compliance Option.

23 CA ADC § 492

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492

§ 492. Prescriptive Compliance Option.

[Currentness](#)

(a) This section contains prescriptive requirements, which may be used as a compliance option for new construction projects with a landscape area between 500 and 2,500 square feet.

(b) Compliance with the requirements of this section is mandatory and must be documented in the Landscape Documentation Package pursuant to Section 491.4(a) in order to use the prescriptive compliance option.

(c) Landscape project requirements.

(1) 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). Soils with greater than 6% organic matter in the top six inches of soil are exempt from adding compost and tilling.

(2) Irrigation systems shall comply with the following:

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

(B) Automatic irrigation controllers are required and must use either evapotranspiration (weather-based) or soil moisture (sensor-based) data and utilize a rain sensor.

(C) Irrigation controllers shall use non-volatile memory.

(D) Pressure regulating devices, which may include pressure boosters or reducers, shall be installed on the irrigation system to ensure the dynamic pressure of the system is within the manufacturers recommended pressure range.

(E) 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.

(F) All irrigation emission devices must meet the requirements set by ANSI in the 2020 ASABE/ICC 802 Landscape Irrigation Sprinkler and Emitter Standard, which is herein incorporated by reference. All sprinkler heads installed in the landscape must document a low-quarter distribution uniformity of 0.65 or higher using the protocol defined in 2020 ASABE/ICC 802 Standard.

(G) Non-rotating spray sprinkler bodies are required to meet the standards described in the California Code of Regulations, Title 20, Division 4, Chapter 4, Section 1605.3(x).

(H) Landscape areas less than 10 feet in width in any direction shall be irrigated with subsurface irrigation or other means that produces no water waste, runoff or overspray.

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

(A) For residential landscapes, install climate adapted plants that require occasional, little, or no summer water (average WUCOLS plant factor 0.3) for 75% of the landscape area excluding areas permanently and solely dedicated to edible plants,

and areas using recycled water;

(B) For non-residential landscapes, install climate adapted plants that require occasional, little, or no summer water (average WUCOLS plant factor 0.3) for 100% of the landscape area excluding areas permanently and solely dedicated to edible plants, and areas using recycled water;

(C) Turfgrass shall comply with all of the following:

1. Turfgrass shall not exceed 25% of the landscape area in residential landscapes;
2. There shall be no turfgrass in non-residential landscapes; and
3. Turfgrass shall not be planted on sloped areas which exceed a slope of one foot vertical elevation change for every four feet of horizontal length; and,
4. Turfgrass 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 turfgrass in parkways must be irrigated by subsurface irrigation or by other technology that creates no water waste, overspray or runoff.

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

(d) The designer of record shall make plants identifiable to an inspector during final inspection. Plants must be identifiable by botanical name, common name or cultivar as specified in Section 53481 of the Food and Agricultural Code.

(e) At the time of final inspection, the permit applicant must provide the owner of the property and the local agency with a certificate of completion package pursuant to Section 494(a).

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. New section filed 7-31-92; operative 7-31-92 (Register 92, No. 32).
2. Amendment of section heading, repealer and new section and amendment of NOTE filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
3. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
4. Repealer and new section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492, 23 CA ADC § 492

END OF DOCUMENT

[Home](#) [Table of Contents](#)**§ 492.1. Compliance with Landscape Documentation Package. [Repealed]**

23 CA ADC § 492.1

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.1

§ 492.1. Compliance with Landscape Documentation Package. [Repealed][Currentness](#)**Credits**

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

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.1, 23 CA ADC § 492.1

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[Home](#) [Table of Contents](#)**§ 492.2. Penalties. [Repealed]**

23 CA ADC § 492.2

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.2

§ 492.2. Penalties. [Repealed][Currentness](#)**Credits**

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

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.2, 23 CA ADC § 492.2

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[Home](#) [Table of Contents](#)**§ 492.3. Elements of the Landscape Documentation Package. [Repealed]**

23 CA ADC § 492.3

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.3

§ 492.3. Elements of the Landscape Documentation Package. [Repealed][Currentness](#)**Credits**

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

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.3, 23 CA ADC § 492.3

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[Home](#) [Table of Contents](#)**§ 492.4. Water Efficient Landscape Worksheet. [Repealed]**

23 CA ADC § 492.4

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.4

§ 492.4. Water Efficient Landscape Worksheet. [Repealed][Currentness](#)**Credits**

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
3. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.4, 23 CA ADC § 492.4

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[Home](#) [Table of Contents](#)**§ 492.5. Soil Management Report. [Repealed]**

23 CA ADC § 492.5

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.5

§ 492.5. Soil Management Report. [Repealed][Currentness](#)**Credits**

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of subsection (a)(1)(B), new subsection (a)(1)(C) and amendment of NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
3. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.5, 23 CA ADC § 492.5

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[Home](#) [Table of Contents](#)**§ 492.6. Landscape Design Plan. [Repealed]**

23 CA ADC § 492.6

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.6

§ 492.6. Landscape Design Plan. [Repealed][Currentness](#)**Credits**

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; Section 1351, Civil Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
3. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.6, 23 CA ADC § 492.6

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[Home](#) [Table of Contents](#)**§ 492.7. Irrigation Design Plan. [Repealed]**

23 CA ADC § 492.7

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.7

§ 492.7. Irrigation Design Plan. [Repealed][Currentness](#)**Credits**

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
3. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.7, 23 CA ADC § 492.7

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[Home](#) [Table of Contents](#)§ 492.8. *Grading Design Plan. [Repealed]*

23 CA ADC § 492.8

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.8

§ 492.8. *Grading Design Plan. [Repealed]*[Currentness](#)**Credits**

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

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.8, 23 CA ADC § 492.8

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[Home Table of Contents](#)**§ 492.9. Certificate of Completion. [Repealed]**

23 CA ADC § 492.9

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.9

§ 492.9. Certificate of Completion. [Repealed][Currentness](#)**Credits**

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. New subsection (a)(2)(B) and amendment of NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
3. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.9, 23 CA ADC § 492.9

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[Home](#) [Table of Contents](#)**§ 492.10. Irrigation Scheduling. [Repealed]**

23 CAADC § 492.10

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.10

§ 492.10. Irrigation Scheduling. [Repealed][Currentness](#)**Credits**

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

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.10, 23 CAADC § 492.10

END OF DOCUMENT

[Home Table of Contents](#)**§ 492.11. Landscape and Irrigation Maintenance Schedule. [Repealed]**

23 CAADC § 492.11

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.11

§ 492.11. Landscape and Irrigation Maintenance Schedule. [Repealed][Currentness](#)**Credits**

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
3. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.11, 23 CAADC § 492.11

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[Home](#) [Table of Contents](#)**§ 492.12. Irrigation Audit, Irrigation Survey, and Irrigation Water Use Analysis. [Repealed]**

23 CA ADC § 492.12

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.12

§ 492.12. Irrigation Audit, Irrigation Survey, and Irrigation Water Use Analysis. [Repealed][Currentness](#)**Credits**

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
3. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.12, 23 CA ADC § 492.12

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[Home Table of Contents](#)**§ 492.13. Irrigation Efficiency. [Repealed]**

23 CA ADC § 492.13

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.13

§ 492.13. Irrigation Efficiency. [Repealed][Currentness](#)**Credits**

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
3. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.13, 23 CA ADC § 492.13

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[Home](#) [Table of Contents](#)**§ 492.14. Recycled Water. [Repealed]**

23 CA ADC § 492.14

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.14

§ 492.14. Recycled Water. [Repealed][Currentness](#)**Credits**

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
3. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.14, 23 CA ADC § 492.14

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[Home](#) [Table of Contents](#)**§ 492.15. Graywater Systems. [Repealed]**

23 CA ADC § 492.15

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.15

§ 492.15. Graywater Systems. [Repealed][Currentness](#)**Credits**

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Renumbering of former section 492.15 to 492.16, new section 492.15 and amendment of NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
3. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.15, 23 CA ADC § 492.15

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[Home](#) [Table of Contents](#)**§ 492.16. Stormwater Management and Rainwater Retention. [Repealed]**

23 CA ADC § 492.16

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.16

§ 492.16. Stormwater Management and Rainwater Retention. [Repealed][Currentness](#)**Credits**

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Renumbering of former section 492.16 to section 492.17 and renumbering of former section 492.15 to new section 492.16, including amendment of section heading, section and NOTE, filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
3. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.16, 23 CA ADC § 492.16

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[Home](#) [Table of Contents](#)§ 492.17. *Public Education. [Repealed]*

23 CAADC § 492.17

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.17

§ 492.17. *Public Education. [Repealed]*[Currentness](#)**Credits**

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Renumbering of former section 492.17 to new section 492.18 and renumbering of former section 492.16 to new section 492.17, including amendment of section and NOTE, filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
3. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.17, 23 CAADC § 492.17

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[Home](#) [Table of Contents](#)**§ 492.18. Environmental Review. [Repealed]**

23 CA ADC § 492.18

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 492.18

§ 492.18. Environmental Review. [Repealed][Currentness](#)**Credits**

NOTE: Authority cited: Section 21082, Public Resources Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Sections 21080 and 21082, Public Resources Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. Renumbering of former section 492.17 to new section 492.18, including amendment of NOTE, filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

2. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 492.18, 23 CA ADC § 492.18

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[Home Table of Contents](#)**§ 493. Performance Compliance Option.**

23 CAADC § 493

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 493

§ 493. Performance Compliance Option.[Currentness](#)

The performance compliance requirements shall be used as the compliance option for any landscape project with greater than 2,500 square feet of area and documented in the Landscape Documentation Package, as described in Section 491.4(b), and the Certificate of Completion Package, as described in Section 494(b).

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. New section filed 7-31-92; operative 7-31-92 (Register 92, No. 32).
2. Repealer and new section and amendment of NOTE filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
3. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
4. Repealer and new section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 493, 23 CAADC § 493

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§ 493.1. Soil Management Report.

23 CA ADC § 493.1

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 493.1

§ 493.1. Soil Management Report.

[Currentness](#)

(a) A soil management report shall be completed by the project applicant, or their 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 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 landscape projects with multiple landscape installations (i.e., production home developments) a soil sampling rate of 1 in 7 lots or approximately 15% of the total number of lots will satisfy this requirement.

1. Large landscape projects shall sample at a rate equivalent to 1 in 7 lots.

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

(A) If significant mass grading is not planned, the soil management 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 management report shall be submitted to the local agency as part of the Certificate of Completion.

(3) The soil management 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 their designee, shall submit documentation verifying implementation of soil management report recommendations to the local agency with the Certificate of Completion.

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of subsection (a) and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
3. Repealer and new section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 493.1, 23 CA ADC § 493.1

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[Home Table of Contents](#)§ 493.2. *Landscape Design Plan.*

23 CA ADC § 493.2

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 493.2

§ 493.2. *Landscape Design Plan.*[Currentness](#)

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

- (1) delineate and label each hydrozone by number, letter, or other method;
- (2) identify the plant factor for each hydrozone as very low, low, moderate, high, or mixed water use.

(A) Temporarily irrigated landscape areas shall use the low water use plant factor range in the water budget calculation specified in Section 493.3(b)(1).

(3) identify special landscape areas, including:

- (A) recreational areas;
- (B) areas permanently and solely dedicated to edible plants; and,
- (C) areas irrigated with or water features using recycled water;

(4) identify type of mulch and application depth;

(5) identify type and quantity of soil amendments;

(6) identify type and surface areas of water features;

(7) identify hardscapes (pervious and non-pervious);

(8) identify location, 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 are provided in Section 490.1(a)(5) requirements.

(9) identify any applicable rain harvesting or catchment technologies and their 24-hour retention or infiltration capacity, if applicable;

(10) Identify any applicable graywater discharge piping, system components, and area(s) of distribution;

(11) Identify designated insect habitat;

(12) make plants identifiable to an inspector during final inspection;

(A) Plants must be identifiable by botanical name, common name or cultivar as specified in Section 53481 of the Food and Agricultural Code.

(13) contain the following statement: "I have complied with the performance compliance option criteria of the MWELo and applied them for the efficient use of water in the landscape design plan."; and

(14) bear the signature of the designer of record as defined in Section 490.2(a)(14).

(b) Plant Selection.

(1) 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.

(2) 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.

(3) Each hydrozone shall have plant materials with similar water use.

(A) Exceptions are allowed for hydrozones that use a mix of plant materials with low and moderate plant factors or moderate and high plant factors, as specified in Section 493.2.2(d)(7).

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

(5) Turfgrass is not allowed on slopes greater than 25% where the toe of the slope is adjacent to a non-pervious hardscape and where 25% means one (1) foot of vertical elevation change for every four (4) feet of horizontal length (rise divided by run x 100 = slope percent).

(6) Methods to achieve water efficiency shall include one or more of the following:

(A) protection and preservation of native species and natural vegetation;

(B) selection of plants based on local climate suitability, disease, and pest resistance;

(C) selection of water-conserving plant, tree, and turfgrass species, especially local native plants;

(D) Selection of trees based on applicable local tree ordinances or tree shading guidelines, and size at maturity as appropriate for the planting area;

(E) Selection of plants from local and regional landscape program recommended plant lists; and

(F) selection of plants from local Fuel Modification Plan Guidelines.

(7) Plants shall be selected and planted appropriately based upon their adaptability to the climatic, geologic, and topographical conditions of the project site. Methods to achieve water efficiency shall include one or more of the following:

(A) use the Sunset Western Climate Zone System, 2007, which is herein incorporated by reference, which takes into account temperature, humidity, elevation, terrain, latitude, and varying degrees of continental and marine influence on local climate;

(B) 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

(C) consider the solar orientation for plant placement to maximize summer shade and winter solar gain.

(c) Water Features.

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

(2) Where available, recycled water shall be used for decorative water features.

(3) Surface area of a water feature shall use the high water use hydrozone plant factor in the water budget calculation.

(4) Pool and spa covers are highly recommended pursuant to subdivision (d) of Section 115921 of the Health and Safety Code.

(d) Soil Preparation, Mulch, and Amendments.

(1) 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.

(2) Soil amendments shall be incorporated according to recommendations of the soil management report and what is appropriate for the plants selected (see Section 493.1).

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

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

(A) To provide habitat for beneficial insects and other wildlife, up to 5% of the landscape area may be left without mulch and identified in the landscape design plan (see Section 493.2(a)(11)).

(5) The mulching portion of the seed/mulch slurry in hydro-seeded applications shall meet the mulching requirement in Section 493.2(d)(4).

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

(7) Organic mulch made from recycled or post-consumer materials shall take precedence over inorganic materials or virgin forest products unless the recycled post-consumer organic products are not locally available.

(A) Organic mulches are not required where prohibited by local Fuel Modification Plan Guidelines or other applicable local ordinances. (Public Resources Code section 4291).

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).

2. Repealer and new section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 493.2, 23 CA ADC § 493.2

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[Home Table of Contents](#)§ 493.2.1. *Grading Design Plan.*

23 CA ADC § 493.2.1

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 493.2.1

§ 493.2.1. *Grading Design Plan.*[Currentness](#)

(a) Grading of a project site shall be designed to minimize soil erosion, runoff, and water waste. A grading plan shall be submitted by the project applicant as part of the Landscape Documentation Package. A comprehensive grading plan approved by the local agency for other local agency permits satisfies this requirement.

(1) A landscape grading plan that indicates finished configurations and elevations of the landscape area, including:

- (A) height of graded slopes;
- (B) drainage patterns;
- (C) pad elevations;
- (D) finish grade; and
- (E) stormwater retention improvements, if applicable.

(2) To prevent excessive erosion and runoff, it is highly recommended that project applicants:

- (A) grade so that all irrigation and normal rainfall remains within property lines and does not drain on to non-pervious hardscapes;
- (B) avoid disruption of natural drainage patterns and undisturbed soil; and
- (C) avoid soil compaction in landscape areas.

(3) The grading design plan shall contain the following statement: "I have complied with the performance compliance option criteria of the MWELO and applied them accordingly for the efficient use of water in the grading design plan." and shall bear the signature of a licensed professional as authorized by law.

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. New section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 493.2.1, 23 CA ADC § 493.2.1

[Home Table of Contents](#)§ 493.2.2. *Irrigation Design Plan.*

23 CAADC § 493.2.2

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 493.2.2

§ 493.2.2. *Irrigation Design Plan.*[Currentness](#)

(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.

(b) *Irrigation System Efficiency.*

(1) The irrigation system must be designed and installed to meet, at a minimum, the irrigation efficiency criteria as described in Section 493.3 regarding the Maximum Applied Water Allowance.

(2) For the purpose of determining Estimated Total Water Use, average irrigation system efficiency is assumed to be:

(A) 0.75 for overhead irrigation systems; and

(B) 0.81 for drip irrigation systems.

(3) Sprinkler head spacing shall be designed to achieve the highest possible distribution uniformity using the manufacturer's recommendations. Head-to-head coverage is recommended.

(c) *The irrigation design plan, at a minimum, shall contain the following:*

(1) location and size of separate water meters and submeters;

(2) location, type, and size of all components of the irrigation system, including controllers, main and lateral lines, valves, emission devices, moisture sensing devices, rain sensors, quick couplers, pressure regulating devices, 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 the emission devices controlled by each station;

(5) identification of special landscape areas irrigated with and water features using recycled water as specified in Section 490.1(a)(3);

(6) identification of any applicable graywater discharge piping, system components, and landscape areas where graywater is distributed;

(7) Identification of hydrozone areas shall be designated by number, letter, or other designation as identified on the landscape design plan. Designate the areas irrigated by each valve and assign a number to each valve using the Water Efficient Landscape Worksheet (see Appendix A). This table can also assist with the irrigation audit and programming the controller.

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

(8) the following statement: "I have complied with the performance compliance option criteria of the MWELD and applied them accordingly for the efficient use of water in the irrigation design plan."; and

(9) the signature of the designer of record. (See Division 3, Chapter 3.5, Article 3 of the Business and Professions Code).

(d) General Design Criteria.

(1) Backflow prevention devices shall be required to protect the water supply from contamination by the irrigation system as specified in the California Plumbing Code (Cal. Code Regs., Title 24, Part 5, Chapter 6). A project applicant shall refer to the applicable local agency code (i.e., public health) for additional backflow prevention requirements.

(2) The design of the irrigation system shall conform to the hydrozones of the landscape design plan.

(3) Emission devices shall be selected based on what is appropriate for the plant type within that hydrozone.

(4) Where feasible, trees shall be placed on separate stations from hydrozones that include shrubs, groundcovers, and turfgrass 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.

(5) In mulched planting areas, the use of low-pressure and low volume irrigation systems is required to maximize water infiltration into the root zone.

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

(7) Individual hydrozones that use a mix plants of with low and moderate plant factors, or moderate and high plant factors, may be allowed if the plant factor used in the calculation of the estimated water use (EWU) is either:

(A) plant factor calculation is based on the proportions of the respective plant factors; or

(B) the highest plant factor is used.

(8) Individual hydrozones that use a mix of plants with high and low plant factors shall not be permitted.

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

(10) Overhead irrigation shall not be permitted within 24 inches of any non-pervious surface. Allowable irrigation within the setback from non-permeable surfaces may include drip irrigation, 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:

(A) no runoff occurs; or

(B) the adjacent non-pervious surfaces are designed and constructed to drain entirely to landscaping; or

(C) the irrigation designer specifies an alternative design or technology, as part of the Landscape Documentation Package, and clearly demonstrates strict adherence to the prevention of water waste. Prevention of overspray and runoff must be confirmed during the irrigation audit.

(11) Restrictions regarding overspray and runoff in any irrigation system may be modified if:

(A) the landscape area is adjacent to pervious surfacing and no runoff occurs; or

(B) the adjacent non-pervious surfaces are designed and constructed to drain entirely to landscaping; or

(12) Slopes greater than 25% shall not be irrigated with an irrigation system using an application rate exceeding 0.75 inches per hour.

(A) 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.

(13) 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.

(e) Irrigation System Components.

(1) Meters.

(A) Pursuant to California Water Code section 535, a water purveyor with 15 or more service connections shall install a dedicated irrigation meter(s) for new retail water service to a property with more than 5,000 sq. ft. of irrigated landscape excluding single-family residential connections and connections for the commercial production of agricultural crops or livestock.

(B) For the purposes of this model ordinance, a submeter or dedicated irrigation meter shall be installed and may be used to assist with leak detection and water management for:

1. non-residential landscapes with an irrigated landscape of 1,000 sq. ft. but not more than 5,000 sq. ft.
2. residential landscapes with an irrigated landscape of 5,000 sq. ft. or more.

(2) Water Pressure.

(A) 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.

(B) 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.

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

(3) Water Waste Prevention Equipment.

(A) The irrigation system shall be designed to prevent water waste.

(B) 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.

(C) 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 break in the pressurized pipeline that delivers water from the water source to the valve or outlet) or routine repair.

(D) Check valves or anti-drain valves are required on all sprinkler heads where low point drainage could occur.

(E) 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.

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

(4) Emission Devices.

(A) Emission devices shall have matched precipitation rates, unless otherwise directed by the manufacturer's recommendations.

(B) 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) 802-2020 "Landscape Irrigation Sprinkler and Emitter Standard," which is herein incorporated by reference.

1. All overhead irrigation systems installed in the landscape must document a low quarter distribution uniformity of 0.65 or higher using the protocol defined in ASABE/ICC 802-2020.

(C) Non-rotating spray sprinkler bodies are required to meet standards described in California Code of Regulations, Title 20, Division 2, Chapter 4, Section 1605.3(x).

(5) System Controls.

(A) Automatic irrigation controllers utilizing either evapotranspiration or soil moisture sensor data utilizing non-volatile memory shall be required for scheduling irrigation events.

(B) 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.

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. New section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 493.2.2, 23 CA ADC § 493.2.2

END OF DOCUMENT

[Home Table of Contents](#)§ 493.3. *Water Efficient Landscape Worksheet.*

23 CA ADC § 493.3

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 493.3

§ 493.3. *Water Efficient Landscape Worksheet.*[Currentness](#)

(a) A project applicant shall complete the Water Efficient Landscape Worksheet in Appendix A, which compares the landscape project's Estimated Total Water Use (ETWU) with the Maximum Applied Water Allowance (MAWA). ETWU must be equal to or below the MAWA.

(1) The MAWA is calculated based on the maximum ETAF allowed for the landscape project and is expressed as annual gallons allowed. The maximum ETAF allowed is:

- (A) 0.55 for residential regular landscape areas,
- (B) 0.45 for non-residential regular landscape areas,
- (C) 1.0 for new and existing (non-rehabilitated) Special Landscape Areas.

(2) The ETWU is the sum of estimated water use (EWU) for each hydrozone. The evapotranspiration adjustment factor (ETAF) for each hydrozone is based on the plant factor and the average irrigation system efficiency. EWU is calculated using the ETAF, regular landscape areas, and the special landscape areas.

(3) 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 C. For geographic areas not covered in Appendix C, 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, which is herein incorporated by reference.

(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. The plant factor ranges are:

- (A) less than 0.1 for very low water using plants,
- (B) 0.1 to 0.3 for low water use plants,
- (C) 0.4 to 0.6 for moderate water use plants,
- (D) 0.7 to 1.0 for high water use plants.

(2) All water features shall use the high water use plant factor in the water budget calculations.

(3) Temporarily irrigated areas shall use the low water use plant factor in the water budget calculations.

(4) All Special Landscape Areas (SLA) shall be identified in the Landscape Design Plan (Section 493.2) and the Irrigation Design Plan (Section 493.2.2) and their water use calculated as shown in Appendix A.

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

(A) Residential landscapes:

$$\text{MAWA} = (\text{ETo} - \text{Eppt}) \times (0.62) \times [0.55 \times \text{RLA} + 1.0 \times \text{SLA}].$$

(B) Non-residential landscapes:

$$\text{MAWA} = (\text{ETo} - \text{Eppt}) \times (0.62) \times [0.45 \times \text{RLA} + 1.0 \times \text{SLA}].$$

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. New section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

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Cal. Admin. Code tit. 23, § 493.3, 23 CA ADC § 493.3

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§ 493.4. Irrigation Scheduling.

23 CA ADC § 493.4

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 493.4

§ 493.4. Irrigation Scheduling.

[Currentness](#)

(a) All irrigation schedules shall be developed, managed, and evaluated to utilize the minimum amount of water required to maintain plant health and prevent water waste. Irrigation schedules shall meet the following criteria:

(1) Irrigation scheduling shall be regulated by automatic irrigation controllers.

(2) Parameters used to set the automatic irrigation controller shall be developed and submitted with the Certificate of Completion for each of the following:

(A) the plant establishment period;

(B) the established landscape; and

(C) temporarily irrigated areas.

(3) Each irrigation schedule shall consider for each station all of the following parameters that apply:

(A) irrigation interval (days between irrigation events);

(B) irrigation run times (hours or minutes per irrigation event to avoid runoff and prevent water waste);

(C) number of cycle starts required for each irrigation event to avoid runoff and prevent water waste;

(D) amount of applied water scheduled to be applied on a monthly basis;

(E) application rate setting;

(F) root depth setting;

(G) plant type setting;

(H) soil type;

(I) slope factor setting;

(J) shade factor setting; and

(K) distribution uniformity or irrigation efficiency setting.

(4) Overhead irrigation systems shall be scheduled between 8:00 p.m. and 10:00 a.m., unless weather conditions prevent it. If the local agency or water purveyor has watering windows that are different or longer, the stricter of the two shall apply. Operation of the irrigation system outside the normal watering window is allowed for auditing and system maintenance.

(5) Total annual applied water shall be less than or equal to Maximum Applied Water Allowance (MAWA).

(A) Actual irrigation schedules shall be regulated by automatic irrigation controllers using current reference evapotranspiration data (e.g., CIMIS) or soil moisture sensor data.

(B) For implementation of the irrigation schedule, carefully consider the irrigation run times, emission device, flow rate, and current reference evapotranspiration, so that applied water does not exceed the Estimated Total Water Use.

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. New section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

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Cal. Admin. Code tit. 23, § 493.4, 23 CA ADC § 493.4

END OF DOCUMENT

[Home Table of Contents](#)**§ 493.5. Landscape and Irrigation Maintenance Schedule.**

23 CA ADC § 493.5

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 493.5

§ 493.5. Landscape and Irrigation Maintenance Schedule.[Currentness](#)

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

(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 turfgrass areas; topdressing with compost, replenishing mulch; fertilizing; pruning; weeding in all landscape areas; and removing obstructions to emission devices.

(1) 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 replacement parts for the originally installed components or their equivalents, or with components that improve the average irrigation system efficiency.

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

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. New section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

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Cal. Admin. Code tit. 23, § 493.5, 23 CA ADC § 493.5

END OF DOCUMENT

[Home Table of Contents](#)**§ 493.6. Irrigation Audit.**

23 CA ADC § 493.6

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 493.6

§ 493.6. Irrigation Audit.[Currentness](#)

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

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

(c) For new construction and rehabilitated landscape projects installed after December 1, 2015, as described in Section 493:

(1) the project applicant shall submit an irrigation audit report with the Certificate of Completion Package to the local agency that may include, but is not limited to, inspection, system tune-up, system test with distribution uniformity, and reporting overspray or run off that causes overland flow; and

(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.

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. New section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 493.6, 23 CA ADC § 493.6

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§ 494. Certificate of Completion Package.

23 CA ADC § 494

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 494

§ 494. Certificate of Completion Package.

[Currentness](#)

The Certificate of Completion Package is completed by the project applicant or their designee to certify that the landscape project has been installed in accordance with the Model Water Efficient Landscape Ordinance.

(a) Prescriptive Compliance Option. The Certificate of Completion Package (see Appendix B for a sample certificate) shall include:

(1) a certificate of completion limited to:

- (A) Project Information Sheet (Appendix B -- Element 1);
- (B) Certificate of Installation according to the Landscape Documentation Package (Appendix B -- Element 2);
- (C) addressing applicable parameters as described in Section 493.4(a)(3) (Appendix B -- Element 4); and
- (D) landscape and irrigation maintenance schedule (Appendix B -- Element 5).

(b) Performance Compliance Option. The Certificate of Completion Package (see Appendix B for a sample certificate) shall include the following six (6) elements:

(1) project information sheet that contains:

- (A) date the project information sheet is completed;
- (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 the designer of record that the landscape project has been installed per the approved Landscape Documentation Package (see Section 491.4);

(A) where there have been significant changes made in the field during construction, the "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 automatic irrigation controller for subsequent management purposes.

(3) soil management report, if not submitted with Landscape Documentation Package, and documentation verifying implementation of soil report recommendations (see Section 493.1);

- (4) irrigation scheduling parameters used to set the automatic irrigation controller (see Section 493.4);
 - (5) landscape and irrigation maintenance schedule (see Section 493.5);
 - (6) irrigation audit report (see Section 493.6); and
- (c) The project applicant shall:
- (1) submit the signed Certificate of Completion Package to the local agency for review; and
 - (2) ensure that copies of the approved Certificate of Completion Package are submitted to the local water purveyor and property owner or their designee, unless the property owner is the project applicant.
- (d) The local agency shall:
- (1) receive the signed Certificate of Completion Package from the project applicant; and
 - (2) approve or deny the Certificate of Completion Package. If the Certificate of Completion Package is denied, the local agency shall provide information to the project applicant regarding reapplication, appeal, or other assistance.

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. Repealer and new section; new NOTE and new Appendices A-C filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
3. Repealer and new section filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 494, 23 CA ADC § 494

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§ 495. Reporting.

23 CA ADC § 495

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR § 495

§ 495. Reporting.

[Currentness](#)

(a) Local agencies shall submit annual reports to the Department of Water Resources by January 31st for the previous calendar year (January 1 to December 31). Local agencies shall report on implementation and enforcement and address the following:

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

(2) State the entity responsible for implementing the MWELO.

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

(4) Provide the total number of new construction projects, as defined in Section 490.2(a)(55), with construction initiated during the reporting period for:

(A) multifamily residential landscape projects, as defined in Section 490.2(a)(54);

(B) single-family residential landscape projects, as defined in Section 490.2(a)(76);

(C) non-residential landscape projects, as defined in Section 490.2(a)(56); and,

(D) rehabilitated landscape projects, as defined in Section 490.2(a)(73).

(5) State the number and types of completed projects subject to the MWELO during the specified reporting period:

(A) multifamily residential landscape projects, as defined in Section 490.2(a)(54);

(B) single-family residential landscape projects, as defined in Section 490.2(a)(76);

(C) non-residential landscape projects, as defined in Section 490.2(a)(56); and,

(D) rehabilitated landscape projects, as defined in Section 490.2(a)(73).

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

(7) Describe enforcement measures.

(8) Describe actions taken to verify compliance:

(A) Is a plan check performed; if so, by what entity?

(B) Is a site inspection performed; if so, by what entity?

(C) Is a post-installation audit required; if so, by whom?

(9) Describe educational and other needs to properly apply the MWEL.

(10) Explain challenges to implementing and enforcing the MWEL.

Credits

NOTE: Authority cited: Sections 65596 and 65596.5, Government Code. Reference: Sections 65593, 65596 and 65596.5, Government Code.

HISTORY

1. New section filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38). For prior history, see Register 2009, No. 37.

2. Amendment of section and NOTE filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, § 495, 23 CA ADC § 495

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Appendix A. Sample Water Efficient Landscape Worksheet

23 CA ADC Div. 2 Ch. 2.7 App. A

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR Div. 2 Ch. 2.7 App. A

Appendix A. Sample Water Efficient Landscape Worksheet

Currentness

When the performance compliance option is selected, this worksheet is to be filled out by the project applicant or their designee and is required to be submitted with the Landscape Documentation Package. Additional rows or multiple sheets should be used if there are more than 12 hydrozones. The ETWU (gallons per year) must be equal to or less than the MAWA (annual gallons allowed) to comply with MWELQ.

Project Applicant: _____	Phone Number (if available): _____
Project Address: _____	Date: _____ (ETo^a) (in./year): _____

Maximum Applied Water Allowance (MAWA):

$$\text{MAWA} = \text{ETo}^a \times 0.62 \times [\text{ETAF} \times \text{RLA} + 1.0 \times \text{SLA}] = \quad (\text{Annual Gallons Allowed})$$

The maximum ETAF allowed in the MAWA equation must be equal to or below:

0.55 -- for residential regular landscape areas (RLA)

0.45 -- for non-residential regular landscape areas (RLA)

1.0 -- for special landscape areas (SLA)

Estimated Total Water Use (ETWU) Table: (see instructions)

[illegible]

SLA -	NA	NA	1.0		
SLA -	NA	NA	1.0		
SLA -	NA	NA	1.0		
ETWU Total	NA	NA	NA	NA	
MAWA	NA	NA	NA	NA	

^a Annual ETo for the nearest City from Appendix C	^b Plant Factor (PF) from WUCOLS:		^c Average Irrigation System Efficiency (IE):	
	Very Low	= -less than 0.1	Overhead Irrigation	= 0.75
	Low	= 0.1 - 0.3	Drip Irrigation	= 0.81
	Moderate	= 0.4 - 0.6		
	High	= 0.7 - 1.0		

WATER EFFICIENT LANDSCAPE WORKSHEET INSTRUCTIONS

1. Reference Evapotranspiration.

- Lookup the Annual ETo^a value for the nearest City using the Reference Evapotranspiration (ETo) Table provided in Appendix C and use this value in the EWU and MAWA calculations.

2. Calculate the Maximum Applied Water Allowance (MAWA).

- RLA is the total regular landscape area in square feet.
- SLA is the total special landscape area in square feet.
- MAWA is calculated based on the maximum ETAF allowed for the type of landscape areas for the landscape project and is expressed as annual gallons allowed.
- Effective Precipitation. Per Section 493.3(b)(5), a local agency may consider Effective Precipitation (Eppt), (25% of annual precipitation) in tracking water use and may use the following equation to calculate MAWA:

1. Residential landscapes:

$$\text{MAWA} = (\text{ETo} - \text{Eppt}) \times (0.62) \times [0.55 \times \text{RLA} + 1.0 \times \text{SLA}]$$

2. Non-residential landscapes:

$$\text{MAWA} = (\text{ETo} - \text{Eppt}) \times (0.62) \times [0.45 \times \text{RLA} + 1.0 \times \text{SLA}]$$

3. Calculate the Estimated Total Water Use (ETWU).

- Column A -- List each hydrozone using the label corresponding to the Landscape Design Plan.
- Columns B and C -- Complete the ETWU table for each hydrozone based on the plant factor (PF) and the average irrigation system efficiency (IE). The plant factor is found in Water Use Classification of Landscape Species (WUCOLS).
- Column D -- calculate the ETAF for each hydrozone by dividing the PF (Column B) by the IE (column C); write the result in column D.
- Column E -- for each hydrozone measure and report:
 - Regular landscape area (RLA) as defined in Section 490.2(a)(72).
 - Special landscape areas (SLA), as defined in Section 490.2(a)(79), are not included in RLA measurements.
- Column F -- calculate the Estimated Water Use (EWU) for each hydrozone by multiplying columns D, E, ETo^a and 0.62 (conversion factor) and write the result in column F.
- ETWU -- is the sum of EWU for each hydrozone and is expressed as gallons per year.

4. Compare ETWU with MAWA.

The ETWU (gallons per year) must be equal to or less than the MAWA (annual gallons allowed) to comply with MWELO.

Credits

HISTORY

- New Appendix A filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).

2. Repealer and new Appendix A filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

3. Repealer and new appendix filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, Div. 2 Ch. 2.7 App. A, 23 CA ADC Div. 2 Ch. 2.7 App. A

END OF DOCUMENT

[Home Table of Contents](#)*Appendix B. Sample Certificate of Completion Package*

23 CA ADC Div. 2 Ch. 2.7 App. B

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR Div. 2 Ch. 2.7 App. B

Appendix B. Sample Certificate of Completion Package[Currentness](#)

This certificate is filled out by the project applicant to certify that the landscape project has been installed in accordance with the Model Water Efficient Landscape Ordinance.

(a) Prescriptive Compliance Option is limited to elements 1, 2, and 4.

(b) Performance Compliance Option shall include all six (6) elements.

ELEMENT 1. PROJECT INFORMATION SHEET

Project Applicant Information:

Name of Project Applicant (or designee if applicable):	Project Name:
Name of Property Owner (if different):	Title:
Street Address:	Water Supply Type (Circle One):
	Potable / Recycled / Well / Other (specify):
City, State:	Water Purveyor:
Zip Code:	Phone No.:
Fax Number:	Email:
Company:	

Project Address and Location:

Street Address:	Parcel, tract, or lot number (if available):
City:	Meter number(s) (if available):
Zip Code:	Latitude/Longitude (optional):

ELEMENT 2. CERTIFICATION OF INSTALLATION ACCORDING TO THE LANDSCAPE DOCUMENTATION PACKAGE

Certification by the designer of record that the landscape project has been installed per the approved Landscape Documentation Package per Section 491.4 and the applicable documents:

(A) Where there have been significant changes made in the field during construction, these "as-built" or record drawings shall be included.

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

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

Primary Designer of Record Signature		Date
Secondary Designer of Record Signature		Date

ELEMENT 3. SOIL MANAGEMENT REPORT

Attach soil management report, if not previously submitted with the Landscape Documentation Package per model ordinance Section 491.4(b).

Attach documentation verifying implementation of recommendations from soil analysis management report per model ordinance Section 493.1.

ELEMENT 4. IRRIGATION SCHEDULING PARAMETERS

Attach irrigation scheduling parameters used to set the automatic irrigation controller per model ordinance Section 493.4.

ELEMENT 5. LANDSCAPE AND IRRIGATION MAINTENANCE SCHEDULE

Attach landscape and irrigation maintenance schedule per model ordinance Section 493.5.

ELEMENT 6. IRRIGATION AUDIT REPORT

Attach Irrigation Audit Report per model ordinance Section 493.6.

PROJECT APPLICANT SIGNATURE:

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

Project Applicant (or designee) 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 _____

Credits

HISTORY

1. New Appendix B filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Repealer and new Appendix B filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
3. Repealer and new appendix filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, Div. 2 Ch. 2.7 App. B, 23 CA ADC Div. 2 Ch. 2.7 App. B

[Home Table of Contents](#)*Appendix C. Reference Evapotranspiration (ETo) Table , [FN 2]*

23 CA ADC Div. 2 Ch. 2.7 App. C

Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR Div. 2 Ch. 2.7 App. C

Appendix C. Reference Evapotranspiration (ETo) Table [FN1], [FN2]

[Currentness](#)

(All values shown in inches)

County	Jan	Feb	Mar	April	May	Jun	July	Aug	Sept	Oct	Nov	Dec	Annual
/City or Place													ETo
Alameda County													
Alameda	1.2	1.8	2.9	4.0	4.9	5.6	5.7	5.1	4.2	3.0	1.5	1.0	41.0
Berkeley	1.2	1.8	2.9	4.0	5.1	5.8	5.9	5.3	4.3	3.0	1.6	1.0	41.8
Castro Valley	1.2	1.8	3.0	4.2	5.2	6.0	6.2	5.6	4.5	3.1	1.6	1.1	43.6
Dublin	1.2	1.9	3.2	4.4	5.6	6.5	6.8	6.0	4.8	3.3	1.7	1.1	46.4
Fremont	1.3	1.9	3.1	4.1	5.2	5.9	6.1	5.4	4.4	3.1	1.7	1.1	43.2
Hayward	1.2	1.8	3.0	4.1	5.1	5.8	5.9	5.3	4.3	3.0	1.6	1.1	42.2
Livermore	1.2	1.9	3.3	4.5	5.9	6.8	7.1	6.3	5.0	3.4	1.7	1.1	48.2
Newark	1.3	1.8	3.0	4.1	5.1	5.8	5.9	5.3	4.3	3.1	1.7	1.1	42.5
Oakland	1.2	1.8	3.0	4.0	5.0	5.7	5.9	5.3	4.3	3.0	1.6	1.0	41.8
Piedmont	1.2	1.8	3.0	4.1	5.1	5.8	6.0	5.4	4.4	3.1	1.6	1.0	42.4
Pleasanton	1.2	1.9	3.2	4.4	5.6	6.4	6.7	6.0	4.8	3.3	1.7	1.1	46.3
San Lorenzo	1.2	1.8	3.0	4.1	5.1	5.8	5.9	5.3	4.3	3.0	1.6	1.1	42.2
Sunol	1.2	1.9	3.1	4.3	5.5	6.3	6.5	5.8	4.6	3.2	1.7	1.1	45.2
Alpine County													
Alpine Village	1.6	2.0	3.2	4.2	5.3	6.6	7.4	6.9	5.1	3.3	1.9	1.3	48.8
Kirkwood	1.3	1.7	2.7	3.6	4.7	6.1	7.1	6.5	4.8	3.0	1.6	1.1	44.4
Markleeville	1.5	1.9	3.1	4.0	5.1	6.5	7.3	6.7	5.0	3.2	1.8	1.2	47.3
Amador County													
Amador City	1.3	2.0	3.4	4.7	6.5	7.9	8.8	7.9	5.8	3.7	1.8	1.1	54.8
Buena Vista	1.3	2.0	3.5	4.9	6.7	8.1	9.0	8.0	5.9	3.8	1.8	1.2	56.2
Fiddletown	1.3	1.9	3.3	4.5	6.3	7.7	8.6	7.7	5.7	3.6	1.8	1.1	53.5
Ione	1.3	2.0	3.5	4.9	6.7	8.1	9.0	8.0	6.0	3.8	1.8	1.2	56.2
Jackson	1.3	1.9	3.3	4.6	6.4	7.8	8.7	7.8	5.8	3.6	1.8	1.1	54.1
Plymouth	1.3	2.0	3.4	4.7	6.5	7.8	8.8	7.9	5.9	3.7	1.8	1.1	54.8
Butte County													
Butte Meadows	1.1	1.7	2.9	4.1	5.6	6.8	7.4	6.5	4.9	3.1	1.4	0.9	46.2
Chico	1.3	2.1	3.5	4.9	6.6	7.6	8.0	7.0	5.5	3.7	1.8	1.2	53.1
Gridley	1.3	2.1	3.5	4.9	6.6	7.6	8.1	7.1	5.5	3.7	1.8	1.2	53.4

Magalia	1.2	1.9	3.2	4.5	6.2	7.3	7.8	6.9	5.3	3.5	1.6	1.0	50.3
Oroville	1.3	2.1	3.5	4.8	6.5	7.6	8.0	7.1	5.5	3.7	1.8	1.2	53.1
Palermo	1.3	2.1	3.5	4.8	6.5	7.6	8.1	7.2	5.5	3.7	1.8	1.2	53.2
Paradise	1.2	1.9	3.3	4.6	6.2	7.3	7.8	6.9	5.3	3.5	1.7	1.1	50.9
Stirling City	1.1	1.8	3.1	4.3	5.9	7.1	7.6	6.7	5.1	3.3	1.5	1.0	48.5
Calaveras County													
Angels Camp	1.3	1.9	3.3	4.6	6.4	7.8	8.7	7.7	5.6	3.5	1.7	1.1	53.6
Arnold	1.2	1.8	3.1	4.2	5.8	7.2	8.2	7.3	5.4	3.3	1.7	1.1	50.2
Copperopolis	1.2	1.9	3.4	4.7	6.6	7.9	8.8	7.7	5.7	3.6	1.7	1.1	54.4
Mountain Ranch	1.3	1.9	3.2	4.4	6.1	7.5	8.5	7.6	5.6	3.4	1.7	1.1	52.2
San Andreas	1.3	2.0	3.4	4.7	6.5	7.9	8.8	7.9	5.8	3.6	1.8	1.1	54.8
Valley Springs	1.3	2.0	3.4	4.8	6.6	8.0	8.8	7.9	5.8	3.7	1.8	1.1	55.2
West Point	1.3	1.9	3.2	4.4	6.1	7.5	8.5	7.6	5.6	3.5	1.8	1.1	52.3
Colusa County													
Arbuckle	1.2	2.0	3.4	4.9	6.6	7.6	8.0	7.0	5.5	3.7	1.7	1.1	52.7
Colusa	1.3	2.1	3.4	4.9	6.6	7.6	7.9	7.0	5.4	3.7	1.8	1.2	52.9
Grimes	1.3	2.1	3.4	4.9	6.6	7.7	8.0	7.1	5.5	3.7	1.8	1.1	53.3
Princeton	1.3	2.1	3.5	4.9	6.6	7.6	7.9	6.9	5.4	3.7	1.8	1.2	53.0
Williams	1.2	2.1	3.4	4.9	6.6	7.6	7.8	6.9	5.4	3.7	1.8	1.1	52.5
Contra Costa County													
Antioch	1.2	1.9	3.3	4.6	6.1	7.1	7.5	6.7	5.2	3.5	1.7	1.1	50.1
Bethel Island	1.2	2.0	3.4	4.8	6.4	7.5	7.9	7.1	5.4	3.6	1.7	1.1	52.0
Brentwood	1.2	2.0	3.3	4.7	6.2	7.2	7.6	6.8	5.3	3.5	1.7	1.1	50.7
Concord	1.2	1.9	3.2	4.5	5.8	6.7	7.1	6.3	5.0	3.4	1.6	1.1	47.6
Danville	1.2	1.9	3.1	4.3	5.6	6.5	6.8	6.1	4.8	3.3	1.6	1.1	46.3
Martinez	1.2	1.9	3.1	4.4	5.7	6.5	6.8	6.1	4.8	3.3	1.6	1.1	46.6
Oakley	1.2	2.0	3.3	4.7	6.3	7.3	7.8	6.9	5.3	3.5	1.7	1.1	51.3
Orinda	1.2	1.8	3.0	4.1	5.3	6.1	6.3	5.6	4.5	3.1	1.6	1.0	43.5
Pittsburg	1.2	1.9	3.3	4.6	6.1	7.0	7.3	6.6	5.1	3.4	1.7	1.1	49.2
Pleasant Hill	1.2	1.9	3.1	4.4	5.7	6.6	6.9	6.2	4.8	3.3	1.6	1.1	46.7
Richmond	1.2	1.8	2.9	4.1	5.1	5.8	6.0	5.4	4.4	3.0	1.5	1.0	42.2
San Pablo	1.2	1.8	3.0	4.1	5.2	5.9	6.1	5.5	4.4	3.1	1.5	1.0	42.7
San Ramon	1.2	1.9	3.1	4.3	5.6	6.4	6.7	6.0	4.8	3.3	1.7	1.1	46.0
Walnut Creek	1.2	1.9	3.1	4.4	5.7	6.5	6.8	6.1	4.8	3.3	1.6	1.1	46.5
Del Norte County													
Crescent City	1.5	1.8	3.0	4.0	5.5	6.6	7.4	6.4	4.8	2.9	1.5	0.7	46.0
Klamath	1.5	1.8	2.9	4.0	5.6	6.8	7.7	6.7	4.9	3.0	1.5	0.7	47.1
Smith River	1.4	1.8	3.0	4.0	5.5	6.6	7.5	6.5	4.8	2.9	1.5	0.7	46.1
El Dorado County													
Cameron Park	1.3	2.0	3.3	4.7	6.4	7.7	8.6	7.7	5.8	3.7	1.8	1.1	54.1
Camino	1.3	1.8	3.1	4.3	5.9	7.3	8.3	7.5	5.5	3.5	1.7	1.1	51.3
Coloma	1.3	2.0	3.4	4.6	6.3	7.6	8.6	7.7	5.8	3.7	1.8	1.1	54.0
Diamond Springs	1.3	1.9	3.3	4.6	6.2	7.6	8.5	7.7	5.7	3.6	1.8	1.1	53.3
El Dorado Hills	1.3	2.0	3.4	4.8	6.5	7.8	8.7	7.8	5.8	3.7	1.8	1.1	54.9
Georgetown	1.3	1.9	3.2	4.4	6.0	7.3	8.3	7.5	5.6	3.5	1.7	1.1	51.7
Placerville	1.3	1.9	3.2	4.5	6.1	7.5	8.5	7.6	5.7	3.6	1.8	1.1	52.5
South Lake Tahoe	1.5	1.9	3.1	4.1	5.2	6.5	7.5	6.8	5.1	3.2	1.8	1.2	47.9
Fresno County													
Big Creek	1.3	1.9	3.3	4.5	6.1	7.4	8.1	7.3	5.3	3.3	1.7	1.1	51.4
Clovis	1.2	1.9	3.5	5.1	7.1	8.4	9.1	8.0	5.8	3.5	1.7	1.0	56.4
Coalinga	1.4	2.2	3.8	5.3	7.3	8.4	8.9	8.0	6.2	4.1	2.1	1.3	59.0
Firebaugh	1.2	2.0	3.6	5.2	7.3	8.5	9.0	7.9	6.0	3.8	1.8	1.1	57.3
Fresno	1.2	1.9	3.6	5.1	7.2	8.5	9.1	8.1	5.9	3.6	1.7	1.0	57.0
Friant	1.2	1.9	3.5	5.0	7.0	8.2	8.8	7.8	5.7	3.4	1.7	1.0	55.2
Huron	1.3	2.1	3.7	5.4	7.5	8.6	9.2	8.2	6.2	4.0	2.0	1.2	59.4
Kerman	1.2	2.0	3.6	5.2	7.4	8.7	9.3	8.1	6.1	3.7	1.8	1.0	58.1

Mendota	1.2	2.0	3.6	5.2	7.4	8.6	9.1	8.1	6.1	3.8	1.9	1.1	58.2
Minkler	1.2	1.9	3.6	5.1	7.1	8.3	9.0	7.9	5.8	3.5	1.7	1.0	56.2
Orange Cove	1.2	2.0	3.6	5.2	7.1	8.4	9.0	8.0	5.8	3.5	1.8	1.1	56.6
Reedley	1.2	1.9	3.6	5.2	7.2	8.4	9.1	8.0	5.9	3.6	1.8	1.0	56.9
Riverdale	1.2	2.0	3.6	5.3	7.5	8.7	9.3	8.2	6.2	3.8	1.8	1.1	58.8
San Joaquin	1.2	2.0	3.6	5.3	7.4	8.7	9.2	8.2	6.1	3.8	1.8	1.1	58.4
Selma	1.2	1.9	3.6	5.2	7.3	8.5	9.2	8.1	6.0	3.6	1.8	1.0	57.4
West Park	1.2	1.9	3.6	5.2	7.3	8.6	9.2	8.1	6.0	3.7	1.8	1.0	57.7
Yokuts Valley	1.2	1.9	3.5	5.0	6.8	8.1	8.7	7.8	5.7	3.4	1.7	1.1	54.9
Glenn County													
Elk Creek	1.3	2.0	3.3	4.7	6.3	7.4	7.7	6.7	5.3	3.6	1.8	1.1	51.3
Orland	1.4	2.1	3.5	4.9	6.6	7.7	7.9	6.9	5.4	3.8	1.8	1.2	53.2
Willows	1.3	2.1	3.5	4.9	6.6	7.6	7.9	6.9	5.4	3.7	1.8	1.2	52.8
Humboldt County													
Arcata	1.5	1.9	3.0	3.9	5.5	6.8	7.5	6.6	5.1	3.2	1.6	1.2	47.7
Benbow	1.5	1.9	3.0	4.2	5.9	7.3	8.0	7.0	5.3	3.5	1.7	1.2	50.5
Eureka	1.5	1.9	3.0	3.9	5.5	6.8	7.4	6.5	5.0	3.2	1.6	1.2	47.7
Fortuna	1.5	1.9	3.0	4.0	5.5	6.9	7.6	6.8	5.2	3.3	1.7	1.2	48.6
Garberville	1.5	2.0	3.0	4.2	6.0	7.4	8.1	7.1	5.4	3.5	1.8	1.2	51.3
Hoopa	1.4	1.8	2.9	4.0	5.8	7.2	8.0	7.0	5.1	3.2	1.5	1.1	49.1
McKinleyville	1.5	1.9	3.0	4.0	5.5	6.8	7.5	6.6	5.0	3.2	1.6	1.1	47.7
Miranda	1.6	2.0	3.1	4.2	6.0	7.5	8.2	7.2	5.4	3.5	1.8	1.2	51.6
Myers Flat	1.6	2.0	3.1	4.2	6.0	7.4	8.2	7.2	5.4	3.5	1.8	1.3	51.6
Myrtletown	1.5	1.9	3.0	3.9	5.5	6.8	7.5	6.6	5.1	3.2	1.6	1.2	47.8
Redway	1.6	2.0	3.1	4.2	6.0	7.5	8.1	7.1	5.4	3.5	1.8	1.2	51.5
Willow Creek	1.3	1.8	2.8	3.8	5.7	7.1	7.9	6.9	5.0	3.2	1.5	1.1	48.0
Imperial County													
Bombay Beach	2.7	3.4	5.6	7.1	8.8	9.7	9.9	9.1	7.2	5.3	3.2	2.4	74.4
Brawley	2.7	3.4	5.7	7.2	9.0	10.0	10.3	9.3	7.4	5.4	3.3	2.4	76.1
Calexico	2.7	3.4	5.6	7.0	8.7	9.8	10.0	9.1	7.2	5.4	3.3	2.4	74.7
Calipatria	2.7	3.5	5.7	7.3	9.1	10.1	10.3	9.4	7.4	5.4	3.3	2.4	76.7
El Centro	2.7	3.4	5.6	7.1	8.8	9.9	10.1	9.2	7.3	5.4	3.3	2.4	75.0
Holtville	2.8	3.4	5.7	7.2	8.9	10.0	10.2	9.3	7.4	5.4	3.3	2.4	76.0
Imperial	2.7	3.4	5.6	7.1	8.8	9.9	10.1	9.2	7.3	5.4	3.3	2.4	75.1
Ocotillo	2.7	3.3	5.3	6.6	8.1	9.0	9.2	8.5	6.9	5.2	3.2	2.3	70.2
Salton City	2.6	3.3	5.4	6.8	8.5	9.5	9.7	8.9	7.1	5.2	3.2	2.4	72.7
Seeley	2.7	3.4	5.5	7.0	8.7	9.7	9.9	9.0	7.2	5.3	3.3	2.4	74.2
Westmorland	2.7	3.4	5.6	7.2	8.9	10.0	10.2	9.3	7.4	5.4	3.3	2.4	75.7
Winterhaven	2.9	3.3	5.5	7.0	8.6	9.5	9.9	9.2	7.1	5.2	3.3	2.4	73.8
Inyo County													
Big Pine	1.9	2.6	4.5	5.8	7.1	8.2	8.6	7.9	6.0	4.0	2.4	1.6	60.5
Bishop	1.9	2.5	4.4	5.6	6.8	7.8	8.1	7.5	5.7	3.8	2.3	1.6	58.2
Cartago	1.9	2.8	5.0	6.6	8.5	9.8	10.2	9.5	7.2	4.7	2.7	1.8	70.4
Independence	1.9	2.7	4.7	6.0	7.4	8.5	8.7	8.1	6.1	4.1	2.4	1.7	62.3
Lone Pine	1.9	2.7	4.8	6.3	7.9	9.1	9.4	8.8	6.7	4.4	2.5	1.7	66.3
Pearsonville	2.1	3.1	5.2	7.0	9.1	10.6	11.1	10.3	7.7	5.0	2.9	1.9	76.1
Kern County													
Arvin	2.0	2.6	4.2	5.6	7.4	8.6	9.3	8.5	6.5	4.3	2.5	1.8	63.3
Bakersfield	1.7	2.5	4.0	5.4	7.2	8.4	9.0	8.1	6.2	4.1	2.3	1.6	60.4
Buttonwillow	1.7	2.4	3.9	5.3	7.0	8.1	8.7	7.8	6.0	4.0	2.2	1.5	58.5
California City	2.2	3.0	4.9	6.5	8.5	10.1	10.8	9.9	7.4	4.9	3.0	2.0	73.4
Delano	1.4	2.2	3.8	5.3	7.3	8.4	9.0	8.1	6.1	3.8	2.0	1.3	58.5
Inyokern	2.2	3.2	5.3	7.1	9.3	10.9	11.4	10.6	7.9	5.1	3.0	2.0	78.1
Lake Isabella	1.7	2.5	4.3	5.8	7.8	9.3	9.9	9.1	6.8	4.4	2.4	1.6	65.7
Lost Hills	1.5	2.2	3.8	5.3	7.1	8.1	8.7	7.8	6.0	3.9	2.1	1.4	58.0
Maricopa	2.0	2.6	4.0	5.3	6.8	7.8	8.4	7.7	6.1	4.3	2.6	1.8	59.4

Mojave	2.2	2.8	4.5	5.9	7.7	9.1	9.9	9.1	6.9	4.6	2.8	1.9	67.4
Shafter	1.6	2.3	3.9	5.4	7.2	8.3	8.9	8.0	6.1	4.0	2.2	1.5	59.3
Taft	2.0	2.5	4.0	5.3	6.8	7.9	8.5	7.8	6.1	4.2	2.5	1.7	59.3
Tehachapi	1.9	2.5	4.1	5.5	7.2	8.6	9.3	8.6	6.5	4.3	2.5	1.7	62.7
Wasco	1.5	2.2	3.8	5.3	7.1	8.2	8.8	7.9	6.0	3.9	2.1	1.4	58.2
Kings County													
Corcoran	1.2	2.0	3.7	5.3	7.3	8.5	9.1	8.1	6.1	3.8	1.9	1.1	58.2
Hanford	1.2	2.0	3.6	5.3	7.4	8.6	9.3	8.2	6.1	3.7	1.8	1.1	58.3
Hardwick	1.2	2.0	3.6	5.3	7.4	8.7	9.3	8.2	6.1	3.7	1.8	1.1	58.3
Kettleman City	1.3	2.1	3.7	5.3	7.3	8.4	9.0	8.1	6.2	3.9	2.0	1.2	58.5
Lemoore	1.2	2.0	3.7	5.3	7.4	8.7	9.3	8.2	6.2	3.8	1.9	1.1	58.7
Stratford	1.2	2.0	3.7	5.3	7.4	8.6	9.3	8.2	6.2	3.8	1.9	1.1	58.8
Lake County													
Clearlake	1.1	1.8	3.0	4.3	5.8	6.8	7.2	6.3	4.9	3.3	1.6	1.0	47.1
Cobb	1.1	1.7	2.8	4.0	5.4	6.4	6.8	6.0	4.7	3.1	1.5	0.9	44.5
Lakeport	1.2	1.8	2.9	4.2	5.7	6.7	7.1	6.2	4.9	3.3	1.6	1.0	46.3
Lower Lake	1.1	1.8	3.0	4.3	5.8	6.8	7.2	6.3	4.9	3.3	1.6	1.0	47.0
Lucerne	1.2	1.8	3.0	4.3	5.8	6.8	7.2	6.3	5.0	3.3	1.6	1.0	47.2
Middletown	1.1	1.8	3.0	4.3	5.8	6.7	7.1	6.3	4.9	3.3	1.6	1.0	46.9
Nice	1.2	1.8	3.0	4.3	5.8	6.9	7.2	6.3	5.0	3.3	1.6	1.0	47.3
Upper Lake	1.2	1.8	3.0	4.3	5.8	6.9	7.2	6.3	5.0	3.3	1.6	1.0	47.4
Lassen County													
Bieber	0.8	1.4	2.7	3.8	5.2	6.5	7.6	6.6	4.9	2.9	1.3	0.7	44.4
Herlong	1.2	1.8	3.2	4.3	5.5	6.8	8.0	7.3	5.4	3.2	1.6	1.0	49.3
Spaulding	0.9	1.5	2.7	3.8	5.1	6.4	7.5	6.6	4.8	2.8	1.3	0.7	44.2
Susanville	1.0	1.6	2.9	4.0	5.4	6.6	7.7	6.9	5.0	3.0	1.4	0.8	46.4
Westwood	1.0	1.6	2.8	3.9	5.3	6.5	7.4	6.5	4.8	2.9	1.3	0.8	44.8
Los Angeles County													
Alhambra	2.5	2.7	3.8	4.6	5.3	5.9	6.8	6.3	5.0	3.8	2.7	2.1	51.5
Azusa	2.5	2.7	3.9	4.8	5.6	6.5	7.4	6.8	5.4	3.9	2.7	2.1	54.3
Beverly Hills	2.5	2.7	3.7	4.5	5.1	5.5	6.3	5.8	4.8	3.7	2.7	2.2	49.4
Burbank	2.5	2.7	3.8	4.6	5.4	6.0	6.8	6.3	5.0	3.8	2.7	2.1	51.7
Castaic	2.5	2.8	4.0	5.1	6.2	7.1	7.9	7.4	5.8	4.2	2.8	2.1	58.0
Cerritos	2.5	2.6	3.6	4.3	4.9	5.3	6.1	5.7	4.7	3.6	2.6	2.1	47.8
Compton	2.5	2.6	3.6	4.3	4.8	5.1	5.9	5.5	4.5	3.5	2.6	2.1	46.9
Covina	2.5	2.7	3.9	4.8	5.6	6.5	7.3	6.8	5.4	3.9	2.7	2.1	54.3
El Segundo	2.5	2.6	3.5	4.2	4.7	4.7	5.4	5.1	4.3	3.5	2.6	2.1	45.2
Glendale	2.4	2.6	3.7	4.6	5.3	6.0	6.8	6.3	5.0	3.7	2.6	2.1	51.3
Gorman	2.0	2.4	3.8	4.8	6.3	7.2	8.0	7.3	5.7	3.9	2.4	1.8	55.5
Inglewood	2.5	2.6	3.6	4.4	4.9	5.1	5.9	5.5	4.5	3.6	2.6	2.1	47.2
Lancaster	2.4	2.9	4.4	5.8	7.3	8.5	9.3	8.6	6.6	4.6	2.9	2.1	65.3
Long Beach	2.4	2.5	3.5	4.2	4.7	4.9	5.6	5.3	4.4	3.5	2.5	2.1	45.8
Los Angeles	2.5	2.6	3.7	4.5	5.2	5.6	6.4	6.0	4.8	3.7	2.7	2.1	50.0
Monrovia	2.4	2.6	3.8	4.6	5.4	6.3	7.2	6.7	5.2	3.8	2.7	2.1	52.9
Palmdale	2.4	2.8	4.3	5.6	7.0	8.2	9.0	8.3	6.4	4.5	2.9	2.0	63.4
Palos Verdes Estates	2.4	2.5	3.4	4.0	4.4	4.2	4.9	4.7	4.0	3.3	2.5	2.1	42.4
Paramount	2.5	2.6	3.6	4.3	4.9	5.2	6.0	5.6	4.6	3.6	2.6	2.1	47.6
Pasadena	2.4	2.6	3.7	4.6	5.3	6.1	6.9	6.4	5.1	3.8	2.7	2.1	51.7
Pomona	2.4	2.7	3.9	4.8	5.7	6.6	7.4	6.9	5.5	4.0	2.7	2.1	54.8
Rosemead	2.5	2.7	3.8	4.6	5.3	6.0	6.8	6.3	5.1	3.8	2.7	2.1	51.7
Rowland Heights	2.5	2.6	3.8	4.6	5.3	6.0	6.8	6.3	5.1	3.8	2.7	2.1	51.4
San Fernando	2.5	2.7	3.9	4.8	5.7	6.4	7.2	6.7	5.3	3.9	2.7	2.2	53.8
Santa Clarita	2.5	2.8	4.0	5.1	6.1	7.0	7.8	7.3	5.7	4.2	2.8	2.2	57.4
Santa Monica	2.5	2.6	3.6	4.4	4.9	5.0	5.8	5.4	4.5	3.6	2.6	2.2	47.0
Torrance	2.5	2.5	3.5	4.2	4.6	4.7	5.4	5.1	4.3	3.4	2.5	2.1	44.7
Whittier	2.5	2.6	3.7	4.5	5.1	5.7	6.5	6.1	4.9	3.7	2.7	2.1	50.2

Madera County													
Ahwahnee	1.2	1.8	3.3	4.5	6.3	7.6	8.3	7.3	5.3	3.2	1.6	1.0	51.4
Bass Lake	1.2	1.8	3.1	4.3	5.9	7.3	8.0	7.0	5.1	3.1	1.6	1.0	49.3
Chowchilla	1.2	1.9	3.5	5.0	7.1	8.4	9.0	7.9	5.8	3.6	1.7	1.0	56.2
Madera	1.2	1.9	3.5	5.1	7.2	8.5	9.1	8.0	5.9	3.6	1.7	1.0	56.8
Oakhurst	1.2	1.8	3.3	4.5	6.2	7.5	8.2	7.3	5.2	3.2	1.6	1.0	51.0
Yosemite Lakes	1.2	1.9	3.4	4.8	6.6	7.9	8.6	7.6	5.5	3.3	1.6	1.0	53.3
Marin County													
Bolinas	1.1	1.6	2.7	3.6	4.3	4.8	4.8	4.4	3.7	2.7	1.4	0.9	36.0
Corte Madera	1.1	1.7	2.8	3.9	4.9	5.5	5.6	5.1	4.1	2.9	1.5	1.0	40.1
Larkspur	1.1	1.7	2.8	3.9	4.8	5.5	5.7	5.1	4.1	2.9	1.5	1.0	40.1
Marin City	1.1	1.7	2.8	3.8	4.7	5.2	5.2	4.7	4.0	2.8	1.5	1.0	38.4
Mill Valley	1.1	1.7	2.8	3.8	4.7	5.3	5.4	4.9	4.0	2.8	1.5	0.9	38.8
Novato	1.1	1.7	2.9	4.0	5.0	5.8	6.0	5.4	4.3	3.0	1.5	0.9	41.6
Point Reyes Station	1.1	1.6	2.7	3.7	4.5	5.1	5.3	4.8	4.0	2.7	1.4	0.9	37.7
San Anselmo	1.1	1.7	2.8	3.9	4.9	5.6	5.8	5.2	4.2	2.9	1.5	0.9	40.4
San Geronimo	1.1	1.6	2.7	3.8	4.7	5.3	5.6	5.0	4.1	2.8	1.4	0.9	39.1
San Rafael	1.1	1.7	2.8	3.9	4.9	5.7	5.9	5.3	4.3	2.9	1.5	1.0	41.0
Sausalito	1.1	1.7	2.8	3.8	4.6	5.2	5.1	4.7	3.9	2.8	1.5	1.0	37.9
Stinson Beach	1.1	1.6	2.7	3.7	4.4	5.0	5.0	4.5	3.8	2.7	1.4	0.9	36.9
Strawberry	1.1	1.7	2.8	3.9	4.8	5.4	5.4	4.9	4.0	2.8	1.5	1.0	39.3
Tiburon	1.1	1.7	2.9	3.9	4.9	5.5	5.6	5.0	4.1	2.9	1.5	1.0	40.1
Tomales	1.1	1.6	2.7	3.7	4.6	5.3	5.4	4.9	4.1	2.8	1.4	0.9	38.5
Mariposa County													
Bear Valley	1.2	1.8	3.2	4.5	6.3	7.5	8.3	7.3	5.3	3.2	1.6	1.0	51.1
Coulterville	1.2	1.9	3.3	4.6	6.4	7.7	8.5	7.5	5.5	3.3	1.7	1.1	52.6
El Portal	1.3	1.8	3.2	4.4	5.9	7.3	8.0	7.1	5.2	3.2	1.7	1.1	50.2
Fish Camp	1.2	1.7	3.0	4.1	5.6	7.0	7.7	6.8	4.9	3.0	1.6	1.0	47.6
Greeley Hill	1.2	1.8	3.1	4.4	6.0	7.4	8.2	7.2	5.2	3.2	1.6	1.0	50.3
Mariposa	1.2	1.8	3.3	4.6	6.3	7.6	8.3	7.3	5.3	3.3	1.6	1.0	51.6
Midpines	1.2	1.8	3.2	4.4	6.1	7.4	8.2	7.2	5.2	3.2	1.6	1.0	50.6
Yosemite Valley	1.3	1.8	3.1	4.2	5.6	6.9	7.6	6.7	4.9	3.1	1.7	1.1	48.2
Mendocino County													
Anchor Bay	1.1	1.6	2.6	3.7	4.8	5.8	6.1	5.5	4.4	2.9	1.4	0.9	40.8
Boonville	1.2	1.7	2.8	4.0	5.4	6.4	6.9	6.1	4.8	3.2	1.5	1.0	45.0
Covelo	1.3	1.9	3.1	4.4	6.1	7.3	7.8	6.7	5.2	3.5	1.7	1.2	50.2
Fort Bragg	1.4	1.8	2.9	4.0	5.4	6.6	7.1	6.2	5.0	3.3	1.7	1.1	46.5
Hopland	1.2	1.8	2.9	4.2	5.6	6.6	7.0	6.2	4.9	3.3	1.6	1.0	46.2
Laytonville	1.3	1.8	2.9	4.2	5.9	7.1	7.6	6.7	5.1	3.4	1.7	1.1	48.9
Leggett	1.4	1.9	2.9	4.1	5.9	7.2	7.8	6.9	5.2	3.4	1.7	1.2	49.6
Mendocino	1.4	1.8	2.8	4.0	5.3	6.4	6.8	5.9	4.8	3.3	1.6	1.1	45.2
Point Arena	1.2	1.6	2.6	3.7	4.8	5.8	6.1	5.4	4.4	3.0	1.5	0.9	41.0
Ukiah	1.2	1.8	2.9	4.1	5.6	6.7	7.1	6.2	4.9	3.3	1.6	1.0	46.3
Willits	1.2	1.8	2.9	4.1	5.7	6.9	7.3	6.4	5.0	3.3	1.6	1.1	47.4
Merced County													
Atwater	1.2	2.0	3.5	5.0	7.0	8.2	8.8	7.7	5.8	3.6	1.7	1.1	55.6
Ballico	1.2	2.0	3.5	4.9	6.9	8.2	8.8	7.7	5.7	3.6	1.7	1.1	55.4
Bear Creek	1.2	2.0	3.5	5.0	7.0	8.3	8.9	7.8	5.8	3.6	1.7	1.1	55.7
Dos Palos	1.2	2.0	3.5	5.1	7.1	8.3	8.8	7.7	5.9	3.7	1.8	1.1	56.1
Le Grand	1.2	1.9	3.5	5.0	7.0	8.3	9.0	7.8	5.8	3.6	1.7	1.0	55.8
Los Banos	1.3	2.0	3.5	5.0	7.0	8.1	8.5	7.5	5.8	3.8	1.9	1.2	55.5
Merced	1.2	2.0	3.5	5.0	7.0	8.3	8.9	7.8	5.8	3.6	1.7	1.1	55.7
Santa Nella	1.3	2.0	3.5	4.9	6.7	7.7	8.1	7.2	5.5	3.7	1.9	1.2	53.6
University of California-Merced	1.2	2.0	3.5	4.9	6.9	8.2	8.9	7.8	5.7	3.6	1.7	1.1	55.4
Modoc County													

Adin	0.8	1.5	2.7	3.8	5.1	6.3	7.6	6.6	4.9	2.8	1.3	0.7	44.1
Alturas	0.9	1.4	2.7	3.7	5.1	6.4	7.8	6.9	5.1	2.9	1.4	0.8	45.2
Cedarville	1.0	1.5	2.8	3.7	4.9	6.1	7.6	6.8	4.9	2.8	1.4	0.8	44.3
Daphnedale Park	0.9	1.4	2.7	3.7	5.1	6.4	7.8	6.9	5.0	2.9	1.4	0.8	45.1
Eagleville	0.9	1.4	2.7	3.7	4.9	6.1	7.7	6.9	5.0	2.8	1.4	0.8	44.2
Fort Bidwell	1.0	1.5	2.8	3.7	4.9	6.0	7.5	6.7	4.8	2.8	1.4	0.9	43.9
Newell	0.9	1.5	2.7	3.8	5.2	6.4	7.6	6.7	4.8	2.8	1.3	0.8	44.6
Mono County													
Benton	1.9	2.4	4.1	5.1	6.0	7.0	7.3	6.7	5.1	3.5	2.2	1.6	53.0
Bridgeport	1.6	2.0	3.3	4.3	5.3	6.4	7.0	6.4	4.8	3.1	1.9	1.3	47.5
Chalfant	2.0	2.6	4.4	5.6	6.8	7.7	8.1	7.4	5.7	3.9	2.4	1.7	58.1
Coleville	1.6	2.0	3.3	4.3	5.3	6.5	7.2	6.7	5.0	3.2	1.9	1.3	48.2
Lee Vining	1.5	1.9	3.2	4.1	5.1	6.2	6.7	6.0	4.5	3.0	1.8	1.2	45.2
Mammoth Lakes	1.4	1.8	3.0	3.9	5.0	6.2	6.7	6.0	4.5	2.9	1.7	1.1	44.0
Monterey County													
Bradley	1.7	2.3	3.7	4.8	6.3	7.1	7.5	6.8	5.5	3.9	2.3	1.6	53.6
Carmel Valley Village	1.7	2.0	3.0	3.7	4.4	4.9	4.9	4.6	3.9	3.1	2.0	1.4	39.7
Carmel-by-the-Sea	1.7	2.0	2.9	3.5	3.9	4.0	3.9	3.7	3.4	2.9	2.0	1.5	35.4
Castroville	1.6	2.0	3.1	3.9	4.6	5.0	4.8	4.5	4.0	3.1	1.9	1.4	39.8
King City	1.7	2.2	3.5	4.7	6.0	6.7	6.9	6.3	5.2	3.8	2.3	1.5	50.9
Marina	1.6	2.0	3.1	3.8	4.4	4.7	4.5	4.3	3.8	3.1	2.0	1.4	38.7
Monterey	1.7	2.0	2.9	3.6	4.0	4.3	4.2	4.0	3.6	3.0	2.0	1.4	36.7
Moss Landing	1.6	2.0	3.1	3.9	4.6	4.8	4.6	4.3	3.9	3.1	1.9	1.4	39.1
Pacific Grove	1.7	1.9	2.9	3.5	3.9	4.1	3.8	3.6	3.4	2.9	1.9	1.4	35.1
Salinas	1.6	2.0	3.2	4.1	4.9	5.4	5.5	5.1	4.3	3.3	2.0	1.4	42.8
Seaside	1.7	2.0	3.0	3.7	4.3	4.6	4.5	4.2	3.8	3.1	2.0	1.4	38.2
Soledad	1.6	2.1	3.4	4.4	5.6	6.3	6.4	5.9	4.9	3.6	2.2	1.5	47.8
Napa County													
American Canyon	1.2	1.8	3.1	4.3	5.6	6.5	6.7	6.0	4.8	3.3	1.6	1.0	45.9
Angwin	1.1	1.7	3.0	4.2	5.6	6.6	6.9	6.2	4.8	3.2	1.5	0.9	45.8
Calistoga	1.1	1.8	3.0	4.3	5.6	6.6	7.0	6.2	4.9	3.3	1.6	1.0	46.3
Deer Park	1.1	1.8	3.1	4.4	5.8	6.7	7.1	6.3	5.0	3.3	1.6	1.0	47.2
Moskowite Corner	1.1	1.8	3.1	4.4	5.9	6.9	7.3	6.5	5.1	3.4	1.6	1.0	48.3
Napa	1.1	1.8	3.1	4.4	5.7	6.6	6.9	6.2	4.9	3.3	1.6	1.0	46.7
Oakville	1.1	1.8	3.0	4.3	5.7	6.6	7.0	6.2	4.9	3.3	1.6	1.0	46.6
Rutherford	1.1	1.8	3.1	4.3	5.7	6.7	7.0	6.3	5.0	3.3	1.6	1.0	46.9
Silverado Resort	1.2	1.9	3.2	4.4	5.8	6.8	7.1	6.4	5.0	3.4	1.6	1.0	47.8
St. Helena	1.1	1.8	3.1	4.3	5.7	6.7	7.0	6.3	4.9	3.3	1.6	1.0	46.9
Yountville	1.1	1.8	3.1	4.3	5.7	6.6	7.0	6.2	4.9	3.3	1.6	1.0	46.7
Nevada County													
Grass Valley	1.2	1.9	3.1	4.4	6.0	7.2	8.0	7.2	5.4	3.5	1.7	1.0	50.6
Nevada City	1.2	1.8	3.1	4.4	5.9	7.2	8.0	7.2	5.4	3.4	1.7	1.0	50.4
Penn Valley	1.2	1.9	3.3	4.6	6.2	7.4	8.1	7.2	5.5	3.6	1.7	1.1	51.8
Truckee	1.4	1.8	3.0	4.1	5.2	6.6	7.5	6.9	5.1	3.2	1.7	1.1	47.7
Orange County													
Anaheim	2.5	2.6	3.7	4.5	5.1	5.7	6.5	6.1	5.0	3.7	2.7	2.1	50.3
Dana Point	2.4	2.5	3.5	4.2	4.6	4.7	5.4	5.2	4.4	3.5	2.6	2.1	45.1
Fountain Valley	2.4	2.5	3.6	4.3	4.7	4.9	5.7	5.4	4.5	3.5	2.6	2.1	46.1
Fullerton	2.5	2.6	3.7	4.4	5.1	5.6	6.4	6.0	4.9	3.7	2.7	2.1	49.7
Garden Grove	2.4	2.6	3.6	4.3	4.8	5.2	6.0	5.6	4.6	3.6	2.6	2.1	47.4
Huntington Beach	2.4	2.5	3.5	4.2	4.6	4.7	5.5	5.2	4.4	3.5	2.5	2.1	45.0
Irvine	2.4	2.6	3.7	4.4	4.9	5.3	6.1	5.7	4.8	3.7	2.6	2.1	48.3
Laguna Beach	2.4	2.5	3.5	4.2	4.6	4.8	5.5	5.3	4.4	3.5	2.6	2.1	45.4
Mission Viejo	2.4	2.6	3.7	4.4	5.0	5.4	6.2	5.8	4.8	3.7	2.6	2.1	48.7
Newport Beach	2.4	2.5	3.5	4.2	4.6	4.7	5.5	5.2	4.4	3.5	2.6	2.1	45.3
Orange	2.5	2.6	3.7	4.5	5.1	5.6	6.5	6.1	5.0	3.7	2.7	2.1	50.1

San Clemente	2.4	2.6	3.6	4.2	4.7	4.9	5.7	5.4	4.5	3.6	2.6	2.1	46.4
San Juan Capistrano	2.4	2.6	3.6	4.3	4.8	5.0	5.8	5.5	4.6	3.6	2.6	2.1	46.8
Santa Ana	2.4	2.6	3.6	4.3	4.9	5.2	6.0	5.6	4.7	3.6	2.6	2.1	47.6
Tustin	2.5	2.6	3.7	4.4	5.0	5.4	6.2	5.8	4.8	3.7	2.6	2.1	48.7
Yorba Linda	2.5	2.7	3.9	4.7	5.5	6.2	7.0	6.5	5.3	3.9	2.8	2.2	53.1
Placer County													
Auburn	1.3	2.0	3.3	4.7	6.4	7.6	8.5	7.6	5.7	3.7	1.8	1.1	53.6
Blue Canyon	1.2	1.7	3.0	4.0	5.4	6.7	7.6	6.9	5.1	3.1	1.5	1.0	47.2
Colfax	1.2	1.9	3.2	4.4	6.0	7.3	8.1	7.3	5.5	3.5	1.7	1.0	51.1
Dutch Flat	1.2	1.8	3.1	4.3	5.8	7.1	8.0	7.2	5.4	3.4	1.7	1.0	50.2
Foresthill	1.3	1.9	3.2	4.4	6.0	7.3	8.2	7.4	5.5	3.5	1.7	1.1	51.4
Granite Bay	1.3	2.1	3.5	4.8	6.6	7.9	8.7	7.8	5.9	3.8	1.8	1.2	55.4
Kings Beach	1.4	1.9	3.1	4.1	5.2	6.6	7.6	6.9	5.1	3.2	1.8	1.1	47.8
Lincoln	1.3	2.1	3.5	4.9	6.6	7.8	8.6	7.7	5.8	3.8	1.8	1.1	54.9
Loomis	1.3	2.1	3.5	4.9	6.6	7.9	8.7	7.8	5.9	3.8	1.8	1.2	55.3
Meadow Vista	1.3	1.9	3.3	4.6	6.2	7.5	8.3	7.5	5.6	3.6	1.7	1.1	52.4
Newcastle	1.3	2.0	3.4	4.7	6.4	7.7	8.5	7.6	5.7	3.7	1.8	1.1	54.0
North Auburn	1.3	2.0	3.3	4.6	6.3	7.5	8.4	7.5	5.7	3.6	1.8	1.1	53.0
Penryn	1.3	2.1	3.5	4.8	6.6	7.9	8.7	7.8	5.9	3.8	1.8	1.2	55.2
Rocklin	1.3	2.1	3.5	4.9	6.6	7.9	8.7	7.7	5.8	3.8	1.8	1.1	55.2
Roseville	1.3	2.1	3.5	4.9	6.7	7.9	8.6	7.7	5.8	3.8	1.8	1.1	55.2
Sheridan	1.3	2.1	3.5	4.9	6.6	7.8	8.4	7.5	5.7	3.8	1.8	1.1	54.5
Soda Springs	1.2	1.7	2.9	3.7	5.0	6.3	7.3	6.6	4.9	3.0	1.5	1.0	45.0
Sunnyside-Tahoe City	1.4	1.8	3.0	4.0	5.2	6.5	7.5	6.8	5.1	3.2	1.7	1.1	47.3
Tahoma	1.4	1.8	3.0	3.9	5.1	6.4	7.4	6.7	5.0	3.1	1.7	1.1	46.6
Plumas County													
Beckwourth	1.2	1.7	3.0	4.0	5.3	6.6	7.6	6.9	5.1	3.1	1.5	0.9	46.9
Chester	1.0	1.6	2.8	3.9	5.4	6.5	7.3	6.4	4.8	3.0	1.3	0.8	45.0
Chilcoot-Vinton	1.3	1.8	3.1	4.2	5.4	6.8	7.8	7.2	5.3	3.2	1.7	1.0	48.8
Crescent Mills	1.1	1.7	2.9	4.0	5.4	6.7	7.5	6.7	5.0	3.1	1.4	0.9	46.4
Lake Davis	1.2	1.7	3.0	4.0	5.3	6.6	7.6	6.8	5.1	3.1	1.5	0.9	46.8
Little Grass Valley	1.1	1.7	2.8	3.9	5.3	6.6	7.4	6.6	4.9	3.1	1.4	0.9	45.7
Portola	1.2	1.8	3.0	4.1	5.4	6.7	7.6	6.9	5.1	3.1	1.6	1.0	47.4
Quincy	1.1	1.8	3.0	4.1	5.5	6.8	7.5	6.7	5.0	3.1	1.5	0.9	47.1
Taylorsville	1.1	1.7	2.9	4.0	5.3	6.6	7.5	6.7	4.9	3.0	1.4	0.9	46.0
Riverside County													
Aguanga	2.5	2.8	4.3	5.4	6.6	7.5	8.0	7.5	6.0	4.4	2.9	2.1	60.0
Anza	2.3	2.7	4.3	5.4	6.6	7.7	8.0	7.5	6.0	4.3	2.8	2.0	59.6
Banning	2.4	2.8	4.4	5.6	6.9	8.2	8.6	8.0	6.3	4.4	2.9	2.1	62.7
Beaumont	2.4	2.8	4.4	5.5	6.8	8.0	8.5	7.9	6.2	4.4	2.9	2.1	62.0
Blythe	2.8	3.4	5.5	7.1	8.7	9.4	9.7	8.8	6.8	5.0	3.1	2.3	72.6
Cabazon	2.5	2.9	4.7	6.0	7.5	8.7	9.0	8.3	6.6	4.7	3.0	2.2	65.9
Cathedral City	2.6	3.2	5.2	6.7	8.3	9.4	9.7	8.8	7.0	5.0	3.2	2.3	71.4
Coachella	2.6	3.3	5.4	6.9	8.7	9.7	9.9	9.0	7.2	5.1	3.2	2.3	73.3
Corona	2.5	2.7	4.0	5.0	5.9	6.8	7.5	7.0	5.7	4.2	2.8	2.2	56.3
Desert Center	2.7	3.5	5.7	7.4	9.3	10.0	10.0	9.2	7.3	5.3	3.2	2.3	76.2
Desert Hot Springs	2.5	3.1	5.1	6.5	8.2	9.4	9.6	8.7	6.9	4.9	3.1	2.2	70.3
Elsinore	2.4	2.6	4.0	4.8	5.7	6.5	7.0	6.5	5.3	3.9	2.7	2.1	53.4
Hemet	2.5	2.8	4.4	5.4	6.6	7.7	8.3	7.7	6.2	4.5	3.0	2.2	61.3
Homeland	2.5	2.8	4.2	5.2	6.3	7.4	7.9	7.4	6.0	4.3	2.9	2.2	59.0
Idyllwild-Pine Cove	2.2	2.5	4.1	5.2	6.5	7.6	7.9	7.3	5.8	4.1	2.6	1.9	57.7
Indio	2.6	3.3	5.3	6.8	8.6	9.6	9.8	8.9	7.1	5.1	3.2	2.3	72.3
La Quinta	2.6	3.2	5.2	6.7	8.4	9.4	9.5	8.7	6.9	5.0	3.1	2.3	71.0
Lake Elsinore	2.4	2.6	3.9	4.8	5.7	6.5	7.1	6.6	5.3	3.9	2.7	2.1	53.6
Lakeview	2.5	2.8	4.3	5.3	6.4	7.5	8.1	7.6	6.0	4.3	2.9	2.2	60.0
Meadowbrook	2.4	2.7	4.0	4.9	5.9	6.7	7.4	6.9	5.5	4.0	2.8	2.1	55.2

Mecca	2.6	3.3	5.4	7.0	8.8	9.7	10.0	9.0	7.2	5.2	3.2	2.3	73.8
Menifee	2.4	2.7	4.1	5.0	6.0	7.0	7.5	7.0	5.7	4.1	2.8	2.1	56.5
Moreno Valley	2.5	2.8	4.3	5.3	6.5	7.6	8.2	7.6	6.0	4.3	2.9	2.1	60.2
Mountain Center	2.3	2.6	4.2	5.3	6.6	7.7	8.1	7.5	6.0	4.2	2.7	2.0	59.1
Murrieta	2.5	2.7	4.0	4.9	5.8	6.6	7.2	6.7	5.5	4.0	2.8	2.1	54.9
Norco	2.6	2.8	4.2	5.2	6.1	7.1	7.9	7.4	5.9	4.3	2.9	2.2	58.6
Oasis	2.6	3.3	5.4	6.9	8.6	9.6	9.8	8.9	7.1	5.1	3.2	2.3	72.8
Palm Desert	2.6	3.2	5.2	6.6	8.3	9.4	9.5	8.7	7.0	5.0	3.1	2.3	70.9
Palm Springs	2.5	3.0	4.9	6.3	7.9	9.0	9.2	8.4	6.7	4.8	3.1	2.2	68.0
Perris	2.5	2.7	4.1	5.1	6.1	7.1	7.7	7.2	5.8	4.2	2.8	2.1	57.4
Rancho Mirage	2.6	3.2	5.1	6.6	8.2	9.3	9.5	8.6	6.9	5.0	3.1	2.3	70.4
Ripley	2.8	3.4	5.5	7.1	8.8	9.5	9.8	8.9	6.9	5.0	3.1	2.3	73.1
Riverside	2.5	2.8	4.2	5.2	6.3	7.4	8.1	7.5	6.0	4.3	2.9	2.2	59.4
San Jacinto	2.5	2.8	4.4	5.5	6.7	7.9	8.4	7.8	6.2	4.5	3.0	2.2	61.9
Sky Valley	2.5	3.1	5.2	6.6	8.3	9.4	9.6	8.7	6.9	4.9	3.1	2.2	70.5
Temecula	2.5	2.7	4.1	5.0	5.9	6.7	7.3	6.9	5.6	4.1	2.9	2.2	55.9
Thermal	2.6	3.3	5.4	6.9	8.7	9.7	9.9	9.0	7.2	5.2	3.2	2.3	73.4
Valle Vista	2.5	2.9	4.5	5.6	6.9	8.1	8.6	8.0	6.4	4.6	3.0	2.2	63.1
Whitewater	2.5	3.0	4.8	6.2	7.7	8.9	9.2	8.4	6.7	4.8	3.0	2.2	67.3
Winchester	2.5	2.8	4.2	5.3	6.4	7.4	8.0	7.4	6.0	4.3	2.9	2.2	59.3
Woodcrest	2.5	2.8	4.1	5.1	6.2	7.2	7.9	7.3	5.9	4.2	2.9	2.1	58.1
Sacramento County													
Citrus Heights	1.3	2.1	3.5	4.9	6.7	8.0	8.7	7.8	5.9	3.8	1.8	1.1	55.5
Clay	1.3	2.0	3.5	4.9	6.8	8.1	8.8	7.9	5.9	3.8	1.8	1.2	56.0
Courtland	1.2	2.0	3.5	4.9	6.7	7.9	8.5	7.5	5.7	3.8	1.8	1.1	54.6
Elk Grove	1.3	2.0	3.5	4.9	6.8	8.0	8.7	7.7	5.8	3.8	1.8	1.1	55.4
Fair Oaks	1.3	2.1	3.5	4.9	6.7	8.0	8.7	7.8	5.9	3.8	1.8	1.2	55.6
Folsom	1.3	2.1	3.5	4.9	6.6	7.9	8.8	7.9	5.9	3.8	1.8	1.2	55.6
Franklin	1.2	2.0	3.5	4.9	6.7	8.0	8.6	7.6	5.8	3.8	1.8	1.1	55.0
Freeport	1.2	2.0	3.5	4.9	6.7	8.0	8.6	7.6	5.8	3.8	1.8	1.1	55.0
Galt	1.2	2.0	3.5	4.9	6.8	8.1	8.7	7.7	5.8	3.8	1.8	1.1	55.5
Isleton	1.2	2.0	3.4	4.9	6.6	7.7	8.2	7.3	5.6	3.7	1.7	1.1	53.5
North Natomas	1.3	2.0	3.5	4.9	6.7	7.8	8.5	7.6	5.8	3.7	1.7	1.1	54.5
Orangevale	1.3	2.1	3.5	4.9	6.7	8.0	8.8	7.8	5.9	3.8	1.8	1.2	55.6
Rancho Cordova	1.3	2.1	3.5	4.9	6.7	8.0	8.8	7.8	5.9	3.8	1.8	1.2	55.7
Rancho Murieta	1.3	2.1	3.5	4.9	6.7	8.0	8.9	7.9	5.9	3.8	1.8	1.2	56.0
Rio Linda	1.3	2.1	3.5	4.9	6.7	7.9	8.6	7.7	5.8	3.8	1.8	1.1	55.1
Rosemont	1.3	2.1	3.5	4.9	6.7	8.0	8.7	7.8	5.8	3.8	1.8	1.1	55.5
Sacramento	1.3	2.1	3.5	4.9	6.7	8.0	8.6	7.7	5.8	3.8	1.8	1.1	55.2
Twitchell Island	1.2	1.9	3.4	4.8	6.5	7.5	8.0	7.1	5.5	3.5	1.7	1.1	52.2
Walnut Grove	1.2	2.0	3.4	4.9	6.7	7.9	8.4	7.5	5.7	3.7	1.8	1.1	54.5
Wilton	1.3	2.1	3.5	4.9	6.8	8.1	8.8	7.9	5.9	3.8	1.8	1.2	55.9
San Benito County													
Hollister	1.4	2.0	3.3	4.4	5.7	6.5	6.7	6.0	4.9	3.5	2.0	1.3	47.8
San Benito	1.2	1.8	3.2	4.3	5.8	6.6	7.0	6.3	5.0	3.3	1.7	1.2	47.4
San Juan Bautista	1.5	2.0	3.3	4.3	5.4	6.0	6.2	5.6	4.6	3.4	2.0	1.3	45.5
Tres Pinos	1.4	2.0	3.4	4.5	5.9	6.7	6.9	6.3	5.0	3.5	2.0	1.3	48.9
San Bernardino County													
Adelanto	2.4	3.0	4.7	6.1	7.8	9.3	9.9	9.1	6.9	4.8	3.0	2.1	69.1
Baker	3.1	4.1	6.9	9.0	11.0	13.0	12.0	11.0	8.7	6.3	4.0	2.8	92.5
Barstow NE	2.5	3.3	5.5	7.2	9.2	11.0	11.0	10.0	7.8	5.3	3.3	2.3	79.2
Big Bear Lake	2.1	2.5	4.1	5.3	6.7	8.0	8.2	7.7	5.9	4.1	2.6	1.8	58.9
Chino	2.5	2.8	4.1	5.0	5.9	6.8	7.6	7.1	5.7	4.1	2.8	2.2	56.6
Chino Hills	2.5	2.7	3.9	4.8	5.6	6.5	7.3	6.8	5.4	4.0	2.8	2.1	54.4
Crestline	2.2	2.6	4.0	5.1	6.4	7.7	8.3	7.6	5.8	4.1	2.7	1.9	58.4
Fontana	2.5	2.8	4.2	5.2	6.4	7.5	8.3	7.6	6.0	4.3	2.9	2.1	59.8

Hesperia	2.3	2.9	4.5	5.8	7.3	8.6	9.2	8.4	6.5	4.5	2.9	2.0	65.0
Highland	2.5	2.9	4.5	5.6	7.0	8.3	8.9	8.2	6.4	4.5	3.0	2.2	64.1
Homestead Valley	2.4	3.1	5.2	6.6	8.4	9.7	9.8	9.0	7.0	4.9	3.0	2.1	71.3
Lake Arrowhead	2.2	2.6	4.0	5.1	6.5	7.8	8.3	7.7	5.9	4.0	2.6	1.9	58.6
Lucerne Valley	2.4	3.0	4.9	6.4	8.1	9.6	9.8	9.0	7.0	4.9	3.0	2.1	70.2
Needles	2.9	3.6	6.1	7.9	9.5	10.0	10.0	9.3	7.2	5.4	3.5	2.6	78.4
Newberry Springs	2.5	3.4	5.9	7.4	9.5	11.0	11.0	10.0	7.7	5.4	3.3	2.3	80.0
Oak Hills	2.3	2.8	4.3	5.6	7.0	8.3	8.9	8.2	6.3	4.3	2.8	2.0	62.6
Ontario	2.5	2.8	4.1	5.1	6.0	7.1	7.8	7.3	5.7	4.2	2.8	2.2	57.5
Phelan	2.3	2.7	4.3	5.5	6.9	8.2	8.8	8.1	6.2	4.3	2.8	2.0	62.3
Piñon Hills	2.2	2.7	4.2	5.4	6.8	8.0	8.5	7.9	6.1	4.2	2.7	2.0	60.6
Rancho Cucamonga	2.4	2.8	4.1	5.1	6.2	7.3	8.0	7.4	5.8	4.1	2.8	2.1	58.1
Redlands	2.5	2.9	4.4	5.5	6.8	8.2	8.8	8.1	6.3	4.5	3.0	2.2	63.1
San Antonio Heights	2.3	2.6	3.9	4.8	5.9	7.0	7.7	7.1	5.5	3.9	2.7	2.0	55.6
San Bernardino	2.5	2.9	4.4	5.5	6.8	8.1	8.8	8.1	6.3	4.4	2.9	2.2	62.8
Silver Lakes	2.5	3.2	5.1	6.6	8.5	10.0	11.0	9.8	7.4	5.1	3.2	2.2	74.1
Twentynine Palms	2.5	3.2	5.5	7.1	8.9	10.0	10.0	9.1	7.2	5.1	3.1	2.2	74.1
Victorville	2.4	3.0	4.7	6.1	7.7	9.2	9.8	9.0	6.9	4.7	3.0	2.1	68.6
Wrightwood	2.0	2.3	3.6	4.6	5.9	7.0	7.5	6.9	5.3	3.7	2.4	1.8	53.0
Yucaipa	2.4	2.8	4.4	5.5	6.8	8.2	8.7	8.1	6.3	4.4	2.9	2.1	62.4
Yucca Valley	2.3	2.9	4.9	6.3	8.0	9.2	9.3	8.5	6.7	4.7	2.9	2.0	67.8
San Diego County													
Alpine	2.4	2.7	4.0	4.9	5.9	6.7	7.1	6.7	5.5	4.1	2.8	2.1	54.9
Borrego Springs	2.6	3.1	5.0	6.4	7.8	8.8	9.1	8.4	6.8	5.1	3.2	2.3	68.5
Boulevard	2.3	2.8	4.4	5.6	6.8	7.7	7.9	7.3	6.0	4.5	2.8	2.0	60.2
Camp Pendleton South	2.4	2.6	3.6	4.3	4.8	5.0	5.7	5.5	4.7	3.7	2.7	2.1	47.2
Campo	2.3	2.7	4.2	5.2	6.3	7.2	7.4	6.9	5.7	4.3	2.8	2.1	57.2
Chula Vista	2.4	2.6	3.8	4.5	5.0	5.4	6.0	5.7	4.8	3.8	2.7	2.1	48.7
El Cajon	2.4	2.7	3.9	4.7	5.4	6.0	6.5	6.1	5.1	3.9	2.8	2.2	51.6
Escondido SPV	2.5	2.7	3.9	4.7	5.4	6.1	6.7	6.3	5.2	4.0	2.8	2.2	52.3
Fallbrook/Rainbow	2.5	2.7	3.9	4.7	5.4	6.0	6.7	6.3	5.2	3.9	2.8	2.2	52.1
Jacumba	2.4	2.9	4.7	5.9	7.2	8.1	8.2	7.6	6.2	4.7	2.9	2.1	63.0
Jamul	2.4	2.7	3.9	4.7	5.5	6.2	6.6	6.2	5.1	4.0	2.8	2.1	52.2
Julian	2.3	2.6	4.1	5.1	6.2	7.2	7.5	7.0	5.7	4.2	2.7	2.0	56.5
La Mesa	2.4	2.7	3.8	4.5	5.2	5.7	6.2	5.9	4.9	3.8	2.7	2.1	50.0
Miramar	2.4	2.6	3.8	4.4	5.0	5.4	5.9	5.6	4.7	3.7	2.7	2.2	48.4
Mount Laguna	2.1	2.5	4.0	5.1	6.2	7.1	7.2	6.8	5.5	4.1	2.6	1.9	55.1
Oceanside	2.5	2.6	3.7	4.5	5.0	5.3	6.1	5.8	4.8	3.8	2.7	2.2	49.0
Otay Lake	2.4	2.7	3.9	4.6	5.3	5.8	6.2	5.9	4.9	3.8	2.7	2.1	50.4
Pala	2.6	2.8	4.1	5.0	5.9	6.7	7.4	6.9	5.7	4.2	2.9	2.2	56.5
Pine Valley	2.3	2.6	4.1	5.2	6.3	7.2	7.5	7.0	5.7	4.2	2.8	2.0	56.9
Ramona	2.4	2.7	4.0	4.9	5.8	6.6	7.1	6.7	5.4	4.1	2.8	2.1	54.6
Rancho Santa Fe	2.4	2.6	3.7	4.4	4.9	5.3	6.0	5.7	4.8	3.8	2.7	2.2	48.8
San Diego	2.4	2.6	3.6	4.4	4.9	5.3	5.9	5.7	4.5	3.7	2.7	2.1	47.9
Santee	2.4	2.7	3.9	4.6	5.3	6.0	6.5	6.1	5.1	3.9	2.8	2.2	51.6
Solana Beach	2.4	2.6	3.6	4.3	4.7	4.9	5.6	5.4	4.5	3.6	2.7	2.1	46.3
Torrey Pines	2.4	2.6	3.6	4.3	4.7	4.8	5.4	5.2	4.5	3.5	2.6	2.1	45.6
Valley Center	2.4	2.7	4.0	4.8	5.6	6.5	7.1	6.6	5.4	4.0	2.8	2.1	54.0
Warner Springs	2.4	2.8	4.4	5.4	6.6	7.6	7.9	7.3	6.0	4.4	2.8	2.1	59.5
San Francisco County													
San Francisco	1.2	1.7	2.8	3.8	4.7	5.2	5.2	4.8	4.0	2.8	1.5	1.0	38.7
San Joaquin County													
Dogtown	1.3	2.0	3.5	4.9	6.8	8.1	8.8	7.8	5.9	3.8	1.8	1.2	55.8
Escalon	1.2	2.0	3.5	4.9	6.8	8.1	8.7	7.7	5.8	3.7	1.8	1.1	55.4
Farmington	1.2	2.0	3.5	4.9	6.8	8.1	8.8	7.8	5.8	3.7	1.8	1.1	55.6
Lathrop	1.2	2.0	3.4	4.9	6.7	7.8	8.3	7.4	5.6	3.7	1.8	1.1	53.8

Linden	1.3	2.0	3.5	4.9	6.8	8.1	8.8	7.8	5.8	3.7	1.8	1.2	55.7
Lockeford	1.3	2.0	3.5	4.9	6.8	8.1	8.8	7.8	5.9	3.8	1.8	1.2	55.7
Lodi West	1.2	2.0	3.5	4.9	6.8	8.0	8.6	7.7	5.8	3.8	1.8	1.1	55.3
Manteca	1.2	2.0	3.5	4.9	6.7	7.9	8.4	7.5	5.7	3.7	1.8	1.1	54.4
Mountain House	1.2	2.0	3.3	4.7	6.3	7.3	7.7	6.9	5.3	3.5	1.7	1.1	51.2
Ripon	1.2	2.0	3.5	4.9	6.8	8.0	8.5	7.5	5.7	3.7	1.8	1.1	54.7
Stockton	1.2	2.0	3.4	4.9	6.7	7.9	8.5	7.5	5.7	3.7	1.8	1.1	54.6
Terminous	1.2	2.0	3.4	4.9	6.7	7.8	8.4	7.4	5.7	3.7	1.7	1.1	54.1
Tracy	1.2	2.0	3.4	4.7	6.4	7.5	7.9	7.0	5.4	3.6	1.7	1.1	52.1
San Luis Obispo County													
Arroyo Grande	2.0	2.4	3.5	4.3	5.3	5.7	6.0	5.5	4.6	3.6	2.4	1.8	47.1
Atascadero	1.8	2.3	3.5	4.5	5.8	6.5	6.8	6.3	5.1	3.8	2.3	1.6	50.4
Avila Beach	2.0	2.4	3.5	4.3	5.2	5.6	5.8	5.4	4.6	3.6	2.4	1.8	46.6
Cayucos	1.9	2.3	3.4	4.3	5.2	5.6	5.8	5.4	4.6	3.6	2.4	1.7	46.2
Morro Bay	2.0	2.3	3.4	4.2	5.1	5.5	5.7	5.3	4.5	3.6	2.4	1.7	45.8
Nipomo	2.0	2.4	3.6	4.4	5.3	5.8	6.1	5.6	4.7	3.7	2.5	1.8	47.8
Paso Robles	1.7	2.2	3.7	4.7	6.2	6.9	7.3	6.7	5.4	3.8	2.2	1.6	52.3
San Luis Obispo	2.0	2.3	3.5	4.4	5.4	6.0	6.3	5.8	4.8	3.7	2.4	1.7	48.3
San Miguel	1.7	2.2	3.6	4.7	6.2	7.0	7.4	6.8	5.4	3.9	2.3	1.5	52.8
San Simeon	2.0	2.3	3.3	4.1	4.9	5.3	5.4	5.1	4.4	3.5	2.4	1.7	44.2
Santa Margarita	1.9	2.3	3.6	4.6	5.8	6.5	6.9	6.3	5.1	3.8	2.4	1.7	50.8
Shandon	1.7	2.3	3.8	5.1	6.7	7.7	8.2	7.4	5.9	4.1	2.3	1.6	56.9
San Mateo County													
Atherton	1.3	1.8	2.9	3.8	4.7	5.2	5.4	4.9	4.0	2.8	1.6	1.1	39.5
Belmont	1.2	1.7	2.8	3.8	4.6	5.1	5.3	4.8	3.9	2.8	1.5	1.0	38.6
Brisbane	1.2	1.7	2.9	3.9	4.7	5.3	5.5	4.9	4.0	2.9	1.5	1.0	39.4
Burlingame	1.2	1.7	2.8	3.7	4.5	5.1	5.2	4.8	3.9	2.8	1.5	1.0	38.2
Colma	1.2	1.7	2.8	3.7	4.3	4.8	4.8	4.4	3.7	2.7	1.5	1.0	36.6
Daly City	1.2	1.7	2.7	3.7	4.3	4.7	4.7	4.3	3.7	2.7	1.5	1.0	36.1
East Palo Alto	1.3	1.8	2.9	3.9	4.8	5.4	5.6	5.1	4.1	2.9	1.6	1.1	40.6
Foster City	1.2	1.7	2.9	3.9	4.7	5.4	5.5	5.0	4.0	2.9	1.6	1.0	39.8
Half Moon Bay	1.2	1.7	2.7	3.5	3.9	4.3	4.2	3.9	3.4	2.6	1.5	1.0	33.9
Hillsborough	1.2	1.7	2.8	3.7	4.5	5.0	5.2	4.7	3.9	2.8	1.5	1.0	38.0
La Honda	1.3	1.7	2.7	3.6	4.2	4.7	4.9	4.4	3.7	2.7	1.6	1.1	36.7
Menlo Park	1.3	1.8	2.9	3.9	4.8	5.4	5.6	5.0	4.1	2.9	1.6	1.1	40.4
Millbrae	1.2	1.7	2.8	3.7	4.5	5.0	5.1	4.7	3.8	2.7	1.5	1.0	37.7
Montara	1.2	1.6	2.6	3.5	3.9	4.3	4.2	3.9	3.4	2.6	1.5	1.0	33.8
Pacifica	1.2	1.6	2.7	3.5	4.1	4.6	4.6	4.2	3.6	2.6	1.5	1.0	35.1
Pescadero	1.4	1.7	2.7	3.4	3.8	4.2	4.2	3.9	3.4	2.6	1.6	1.1	33.9
Portola Valley	1.3	1.7	2.8	3.7	4.4	5.0	5.1	4.7	3.8	2.8	1.6	1.1	37.9
Redwood City	1.2	1.7	2.9	3.8	4.7	5.3	5.5	4.9	4.0	2.9	1.6	1.1	39.7
South San Francisco	1.2	1.7	2.8	3.8	4.6	5.2	5.4	4.8	4.0	2.8	1.5	1.0	38.9
Woodside	1.2	1.7	2.8	3.7	4.5	5.0	5.2	4.7	3.8	2.7	1.5	1.1	37.8
Santa Barbara County													
Betteravia	2.1	2.4	3.6	4.3	5.2	5.5	5.7	5.3	4.5	3.6	2.5	1.9	46.6
Carpinteria	2.4	2.6	3.6	4.4	5.0	5.0	5.6	5.2	4.4	3.6	2.6	2.1	46.6
Casmalia	2.1	2.4	3.5	4.2	4.9	5.2	5.4	5.0	4.3	3.5	2.5	1.8	44.9
Cuyama	2.1	2.5	3.8	5.0	6.4	7.2	7.9	7.3	5.8	4.2	2.5	1.8	56.4
Goleta	2.3	2.5	3.6	4.3	4.9	4.9	5.4	5.0	4.2	3.5	2.5	2.0	45.0
Goleta Foothills	2.3	2.5	3.6	4.3	4.9	4.9	5.4	5.0	4.2	3.5	2.5	2.0	45.0
Guadalupe	2.1	2.4	3.5	4.2	5.0	5.3	5.5	5.2	4.4	3.6	2.4	1.8	45.6
Lompoc	2.2	2.4	3.5	4.1	4.6	4.8	5.0	4.6	4.0	3.4	2.4	1.9	42.8
Los Alamos	2.2	2.5	3.6	4.3	5.2	5.6	5.9	5.5	4.5	3.6	2.5	1.8	47.1
New Cuyama	2.0	2.5	3.8	5.0	6.3	7.2	7.8	7.2	5.7	4.1	2.5	1.8	55.9
Santa Barbara	2.3	2.6	3.6	4.4	5.0	5.0	5.6	5.1	4.3	3.6	2.6	2.0	46.0
Santa Maria	2.1	2.4	3.6	4.4	5.3	5.7	6.0	5.6	4.7	3.7	2.5	1.8	47.7

Santa Ynez	2.2	2.5	3.6	4.4	5.2	5.6	5.9	5.4	4.5	3.6	2.5	1.9	47.5
Sisquoc	2.1	2.5	3.7	4.5	5.5	6.0	6.4	5.9	4.9	3.8	2.5	1.9	49.6
Solvang	2.2	2.5	3.6	4.3	5.1	5.4	5.7	5.2	4.4	3.6	2.5	1.9	46.4
Vandenberg Village	2.2	2.4	3.5	4.1	4.8	5.0	5.2	4.8	4.1	3.4	2.5	1.9	44.0
Santa Clara County													
Campbell	1.3	1.9	3.0	4.0	5.0	5.6	5.8	5.2	4.2	3.1	1.7	1.2	42.1
Cupertino	1.3	1.8	3.0	3.9	4.9	5.4	5.6	5.1	4.1	3.0	1.7	1.2	41.0
Gilroy	1.4	2.0	3.2	4.2	5.4	6.1	6.2	5.6	4.6	3.3	1.9	1.3	45.2
Los Altos	1.3	1.8	2.9	3.9	4.8	5.4	5.6	5.0	4.1	2.9	1.6	1.1	40.6
Los Gatos	1.3	1.8	3.0	3.9	4.9	5.5	5.6	5.1	4.2	3.0	1.7	1.2	41.3
Milpitas	1.3	1.9	3.1	4.2	5.3	6.1	6.2	5.6	4.5	3.2	1.7	1.2	44.3
Morgan Hill	1.4	1.9	3.2	4.3	5.4	6.1	6.3	5.7	4.6	3.3	1.8	1.2	45.3
Palo Alto	1.3	1.8	2.9	3.8	4.7	5.2	5.4	4.9	4.0	2.9	1.6	1.1	39.4
San Jose	1.3	1.9	3.1	4.1	5.2	5.9	6.1	5.5	4.4	3.2	1.7	1.2	43.7
Santa Clara	1.3	1.9	3.0	4.1	5.1	5.7	5.9	5.3	4.3	3.1	1.7	1.2	42.5
Saratoga	1.3	1.8	2.9	3.9	4.8	5.4	5.5	5.0	4.1	3.0	1.7	1.2	40.7
Sunnyvale	1.3	1.8	3.0	4.0	5.0	5.6	5.7	5.2	4.2	3.0	1.7	1.2	41.7
Santa Cruz County													
Aptos	1.5	1.9	3.0	3.9	4.6	5.1	5.0	4.6	3.9	3.0	1.8	1.3	39.5
Ben Lomond	1.4	1.8	2.8	3.6	4.3	4.8	4.8	4.4	3.7	2.8	1.7	1.2	37.4
Bonny Doon	1.4	1.8	2.8	3.5	4.2	4.5	4.5	4.2	3.5	2.7	1.7	1.2	36.0
Boulder Creek	1.4	1.8	2.8	3.6	4.3	4.8	4.9	4.4	3.7	2.7	1.6	1.2	37.1
Capitola	1.5	1.9	2.9	3.8	4.5	4.8	4.7	4.4	3.7	2.9	1.8	1.3	38.2
Corralitos	1.4	1.9	3.1	4.0	4.8	5.4	5.4	4.9	4.1	3.1	1.8	1.3	41.3
Davenport	1.5	1.8	2.8	3.5	4.1	4.3	4.2	3.9	3.4	2.7	1.7	1.2	35.2
Felton	1.4	1.8	2.8	3.6	4.3	4.7	4.7	4.3	3.7	2.8	1.7	1.2	37.1
Interlaken	1.5	1.9	3.1	4.0	4.9	5.4	5.4	5.0	4.2	3.2	1.9	1.3	41.8
Pajaro Dunes	1.5	2.0	3.1	3.9	4.6	4.9	4.7	4.4	3.9	3.1	1.9	1.3	39.2
Paradise Park	1.5	1.9	2.9	3.7	4.4	4.7	4.7	4.3	3.7	2.9	1.8	1.3	37.7
Santa Cruz	1.5	1.9	2.9	3.7	4.3	4.6	4.6	4.2	3.6	2.9	1.8	1.3	37.2
Scotts Valley	1.4	1.8	2.9	3.7	4.5	4.9	4.9	4.5	3.8	2.9	1.7	1.2	38.3
Watsonville	1.5	1.9	3.1	4.0	4.8	5.2	5.2	4.8	4.1	3.1	1.9	1.3	40.8
Zayante	1.4	1.8	2.9	3.7	4.5	5.0	5.0	4.6	3.8	2.9	1.7	1.2	38.5
Shasta County													
Anderson	1.4	2.1	3.4	4.8	6.6	7.8	8.2	7.1	5.5	3.7	1.8	1.2	53.4
Burney	0.9	1.6	2.8	3.9	5.4	6.7	7.4	6.5	4.8	3.0	1.3	0.8	45.0
Castella	1.1	1.6	2.8	3.9	5.7	7.0	7.7	6.8	5.0	3.1	1.4	0.9	47.0
Fall River Mills	0.9	1.5	2.8	3.9	5.4	6.6	7.6	6.6	4.9	2.9	1.3	0.8	45.1
Glenburn	0.9	1.5	2.8	3.8	5.4	6.6	7.6	6.6	4.9	2.9	1.2	0.8	45.1
Lakehead	1.2	1.9	3.0	4.3	6.0	7.3	7.9	6.9	5.2	3.3	1.5	1.0	49.5
McArthur	0.9	1.5	2.7	3.9	5.4	6.6	7.6	6.6	4.9	2.9	1.3	0.8	45.2
Old Station	0.9	1.5	2.7	3.8	5.2	6.4	7.2	6.3	4.7	2.9	1.2	0.8	43.6
Redding	1.3	2.0	3.3	4.7	6.4	7.7	8.2	7.1	5.5	3.6	1.7	1.2	52.9
Round Mountain	1.0	1.7	2.9	4.1	5.8	7.1	7.8	6.8	5.1	3.2	1.4	0.9	48.1
Shasta Lake	1.3	2.0	3.2	4.5	6.2	7.5	8.0	6.9	5.3	3.5	1.6	1.1	51.1
Shingletown	1.1	1.8	3.0	4.2	5.8	7.0	7.6	6.6	5.0	3.2	1.5	1.0	47.6
Sierra County													
Calpine	1.3	1.8	3.1	4.1	5.4	6.7	7.6	6.9	5.1	3.2	1.6	1.0	47.8
Downieville	1.3	1.9	3.1	4.2	5.6	6.9	7.8	7.0	5.2	3.3	1.6	1.0	49.0
Loyalton	1.3	1.8	3.1	4.2	5.4	6.8	7.7	7.1	5.3	3.2	1.7	1.1	48.7
Sierra City	1.3	1.8	3.0	4.1	5.4	6.7	7.6	6.9	5.1	3.2	1.6	1.0	47.6
Sierraville	1.3	1.8	3.1	4.2	5.4	6.7	7.7	7.0	5.2	3.2	1.7	1.1	48.4
Verdi	1.4	1.9	3.2	4.2	5.4	6.7	7.7	7.1	5.3	3.3	1.8	1.2	49.2
Siskiyou County													
Dorris	0.9	1.5	2.7	3.8	5.3	6.4	7.4	6.6	4.7	2.7	1.3	0.8	44.1
Etna	1.1	1.7	2.8	3.9	5.4	6.6	7.3	6.4	4.7	2.9	1.3	0.9	45.1

Grenada	1.1	1.7	2.9	4.0	5.5	6.7	7.5	6.6	4.8	2.9	1.3	0.8	45.9
Happy Camp	1.3	1.8	3.0	4.1	5.8	7.1	8.1	7.0	5.0	3.0	1.4	0.9	48.5
Hornbrook	1.1	1.7	2.9	4.1	5.7	7.0	7.9	6.9	5.0	3.0	1.4	0.9	47.4
Macdoel	0.9	1.5	2.7	3.8	5.3	6.5	7.5	6.6	4.7	2.8	1.3	0.8	44.3
McCloud	1.0	1.6	2.7	3.9	5.5	6.9	7.7	6.7	4.9	3.0	1.3	0.8	46.0
Montague	1.1	1.7	3.0	4.1	5.7	6.9	7.8	6.9	5.0	3.0	1.4	0.9	47.4
Mt. Shasta	1.0	1.6	2.7	3.8	5.5	6.8	7.7	6.7	4.9	3.0	1.3	0.8	45.7
Tulelake	0.9	1.5	2.7	3.8	5.2	6.4	7.6	6.6	4.7	2.7	1.3	0.8	44.3
Weed	1.0	1.6	2.7	3.9	5.4	6.7	7.5	6.6	4.8	2.9	1.3	0.8	45.1
Yreka	1.1	1.6	2.8	4.0	5.5	6.7	7.6	6.7	4.8	2.9	1.3	0.8	45.8
Solano County													
Allendale	1.2	2.0	3.3	4.7	6.3	7.4	7.8	7.0	5.4	3.6	1.7	1.1	51.4
Benicia	1.2	1.9	3.1	4.4	5.7	6.6	6.8	6.1	4.8	3.3	1.6	1.0	46.6
Dixon	1.2	2.0	3.4	4.8	6.6	7.6	8.1	7.2	5.6	3.7	1.7	1.1	53.1
Fairfield	1.2	1.9	3.3	4.6	6.1	7.1	7.5	6.7	5.2	3.5	1.7	1.1	49.8
Hastings Tract	1.2	1.9	3.4	4.8	6.5	7.5	8.0	7.1	5.5	3.6	1.7	1.1	52.3
Rio Vista	1.2	2.0	3.4	4.8	6.5	7.5	8.0	7.1	5.5	3.6	1.7	1.1	52.5
Suisun City	1.2	1.9	3.3	4.6	6.2	7.1	7.5	6.7	5.2	3.5	1.7	1.1	50.0
Vacaville	1.2	2.0	3.3	4.7	6.3	7.3	7.7	6.9	5.4	3.6	1.7	1.1	51.2
Vallejo	1.1	1.8	3.1	4.3	5.5	6.4	6.6	5.9	4.7	3.2	1.6	1.0	45.3
Sonoma County													
Bennett Valley	1.1	1.7	3.0	4.1	5.3	6.2	6.6	5.8	4.6	3.0	1.5	1.0	43.9
Bodega	1.1	1.6	2.7	3.8	4.7	5.5	5.6	5.1	4.2	2.8	1.4	0.9	39.3
Bodega Bay	1.1	1.6	2.7	3.7	4.5	5.2	5.2	4.8	4.0	2.7	1.4	0.9	37.7
Cazadero	1.1	1.6	2.7	3.8	4.9	5.7	6.1	5.4	4.3	2.9	1.4	0.9	40.7
Cloverdale	1.2	1.7	2.9	4.1	5.4	6.4	6.8	6.0	4.8	3.2	1.5	1.0	44.8
Cotati	1.1	1.7	2.9	4.0	5.1	5.9	6.2	5.6	4.5	3.0	1.5	0.9	42.3
Forestville	1.1	1.7	2.8	4.0	5.1	6.0	6.3	5.6	4.5	3.0	1.5	0.9	42.5
Fort Ross	1.1	1.5	2.6	3.7	4.6	5.4	5.5	4.9	4.2	2.7	1.4	0.8	38.5
Fulton	1.1	1.7	2.9	4.1	5.3	6.2	6.5	5.8	4.6	3.1	1.5	0.9	43.5
Geyserville	1.2	1.8	2.9	4.2	5.5	6.4	6.8	6.0	4.8	3.2	1.5	0.9	45.2
Glen Ellen	1.1	1.7	2.9	4.1	5.3	6.2	6.5	5.8	4.6	3.1	1.5	0.9	43.8
Guerneville	1.1	1.6	2.8	3.9	5.0	5.9	6.2	5.6	4.4	3.0	1.4	0.9	41.8
Healdsburg	1.1	1.7	2.9	4.1	5.4	6.3	6.6	5.9	4.7	3.2	1.5	0.9	44.4
Jenner	1.1	1.6	2.7	3.7	4.6	5.4	5.5	5.0	4.1	2.8	1.4	0.9	38.8
Kenwood	1.1	1.8	3.0	4.2	5.5	6.4	6.8	6.0	4.8	3.2	1.6	1.0	45.3
Occidental	1.1	1.6	2.7	3.8	4.9	5.7	6.0	5.4	4.3	2.9	1.4	0.9	40.6
Petaluma	1.1	1.7	2.9	4.0	5.1	5.9	6.2	5.6	4.5	3.0	1.5	0.9	42.3
Rohnert Park	1.1	1.7	2.9	4.0	5.1	6.0	6.3	5.6	4.5	3.0	1.5	0.9	42.7
Santa Rosa	1.1	1.7	2.9	4.1	5.3	6.2	6.5	5.8	4.6	3.1	1.5	0.9	43.6
Sea Ranch	1.1	1.6	2.6	3.7	4.8	5.7	6.0	5.3	4.3	2.9	1.4	0.9	40.3
Sebastopol	1.1	1.7	2.8	3.9	5.1	5.9	6.2	5.5	4.4	3.0	1.5	0.9	42.0
Sonoma	1.1	1.8	3.0	4.2	5.4	6.3	6.6	6.0	4.7	3.2	1.5	1.0	44.9
Valley of the Moon	1.1	1.7	3.0	4.2	5.4	6.2	6.6	5.9	4.7	3.1	1.5	1.0	44.5
Wikiup	1.1	1.7	2.9	4.1	5.3	6.1	6.5	5.8	4.6	3.0	1.5	0.9	43.5
Windsor	1.1	1.7	2.9	4.1	5.3	6.2	6.5	5.8	4.6	3.1	1.5	0.9	43.8
Stanislaus County													
Ceres	1.2	2.0	3.5	4.9	6.8	8.0	8.6	7.6	5.7	3.7	1.8	1.1	54.9
Del Rio	1.2	2.0	3.5	4.9	6.8	8.1	8.7	7.7	5.7	3.7	1.8	1.1	55.2
Denair	1.2	2.0	3.5	4.9	6.9	8.1	8.7	7.7	5.7	3.7	1.7	1.1	55.2
Diablo Grande	1.2	1.9	3.3	4.6	6.2	7.1	7.5	6.7	5.2	3.4	1.7	1.1	49.8
Empire	1.2	2.0	3.5	4.9	6.8	8.1	8.7	7.6	5.7	3.7	1.8	1.1	55.2
Hughson	1.2	2.0	3.5	4.9	6.9	8.1	8.7	7.7	5.7	3.7	1.7	1.1	55.3
La Grange	1.2	1.9	3.5	4.9	6.9	8.2	8.9	7.9	5.8	3.6	1.7	1.1	55.6
Modesto	1.2	2.0	3.5	4.9	6.8	8.0	8.6	7.6	5.7	3.7	1.8	1.1	54.8
Newman	1.2	2.0	3.5	4.9	6.7	7.8	8.3	7.3	5.6	3.6	1.8	1.1	53.9

Oakdale	1.2	2.0	3.5	4.9	6.9	8.2	8.8	7.8	5.8	3.7	1.7	1.1	55.5
Patterson	1.2	2.0	3.5	4.9	6.6	7.7	8.2	7.2	5.5	3.6	1.8	1.1	53.4
Riverbank	1.2	2.0	3.5	4.9	6.8	8.1	8.7	7.7	5.8	3.7	1.8	1.1	55.3
Salida	1.2	2.0	3.5	4.9	6.8	8.0	8.5	7.5	5.7	3.7	1.8	1.1	54.8
Turlock	1.2	2.0	3.5	4.9	6.9	8.1	8.6	7.6	5.7	3.7	1.8	1.1	55.1
Valley Home	1.2	2.0	3.5	4.9	6.8	8.2	8.8	7.8	5.8	3.7	1.8	1.1	55.6
Waterford	1.2	2.0	3.5	4.9	6.9	8.2	8.8	7.7	5.8	3.6	1.7	1.1	55.4
Sutter County													
Live Oak	1.3	2.1	3.5	4.9	6.6	7.7	8.1	7.2	5.5	3.7	1.8	1.2	53.5
Meridian	1.3	2.1	3.5	4.9	6.6	7.7	8.0	7.1	5.5	3.7	1.8	1.1	53.2
Nicolaus	1.3	2.1	3.5	4.9	6.7	7.8	8.4	7.5	5.7	3.8	1.8	1.1	54.4
Robbins	1.3	2.1	3.5	4.9	6.7	7.8	8.3	7.4	5.6	3.8	1.8	1.1	54.1
Sutter	1.3	2.1	3.5	4.9	6.6	7.7	8.1	7.2	5.5	3.8	1.8	1.1	53.6
Trowbridge	1.3	2.1	3.5	4.9	6.7	7.8	8.4	7.5	5.7	3.8	1.8	1.1	54.5
Yuba City	1.3	2.1	3.5	4.9	6.6	7.7	8.2	7.3	5.6	3.8	1.8	1.1	53.8
Tehama County													
Corning	1.4	2.1	3.5	4.9	6.6	7.7	8.0	7.0	5.4	3.8	1.8	1.2	53.4
Gerber	1.4	2.1	3.5	4.9	6.6	7.7	8.0	7.0	5.5	3.7	1.8	1.2	53.4
Los Molinos	1.4	2.1	3.5	4.9	6.6	7.7	8.0	7.0	5.5	3.7	1.8	1.2	53.4
Mineral	0.9	1.5	2.6	3.7	5.2	6.4	7.1	6.1	4.6	2.9	1.3	0.8	43.1
Paskenta	1.4	2.0	3.3	4.7	6.4	7.5	7.8	6.8	5.3	3.7	1.8	1.2	51.8
Paynes Creek	1.2	1.9	3.2	4.6	6.2	7.4	7.9	6.9	5.3	3.4	1.6	1.1	50.7
Red Bluff	1.4	2.1	3.4	4.8	6.6	7.7	8.1	7.0	5.5	3.7	1.8	1.2	53.5
Trinity County													
Burnt Ranch	1.3	1.7	2.8	3.8	5.7	7.1	7.8	6.8	5.0	3.2	1.5	1.0	47.6
Coffee Creek	1.1	1.6	2.7	3.8	5.5	6.9	7.6	6.6	4.9	3.0	1.4	0.9	46.0
Hayfork	1.3	1.8	2.9	4.0	5.8	7.1	7.6	6.6	5.0	3.3	1.5	1.1	48.0
Mad River	1.3	1.8	2.8	3.9	5.6	7.0	7.6	6.6	5.0	3.2	1.6	1.1	47.5
Ruth	1.3	1.8	2.9	4.0	5.7	7.0	7.6	6.6	5.0	3.3	1.6	1.1	48.0
Weaverville	1.3	1.8	2.9	4.0	5.8	7.2	7.7	6.7	5.0	3.3	1.5	1.0	48.2
Tulare County													
Alpaugh	1.3	2.1	3.7	5.3	7.3	8.4	9.1	8.1	6.1	3.8	1.9	1.2	58.2
Badger	1.2	1.9	3.6	4.9	6.9	8.1	8.9	7.9	5.8	3.5	1.8	1.1	55.8
California Hot Springs	1.5	2.3	4.0	5.5	7.5	9.0	9.7	8.8	6.6	4.1	2.2	1.4	62.5
Dinuba	1.2	2.0	3.6	5.2	7.2	8.4	9.1	8.0	5.9	3.6	1.8	1.1	56.9
Earlimart	1.3	2.1	3.7	5.3	7.3	8.5	9.1	8.1	6.1	3.8	1.9	1.2	58.5
Kennedy Meadows	1.6	2.4	4.3	5.8	7.7	9.1	9.6	8.9	6.6	4.2	2.3	1.5	63.9
Lindcove	1.3	2.1	3.8	5.3	7.3	8.5	9.2	8.2	6.1	3.7	1.9	1.1	58.5
Lindsay	1.3	2.1	3.8	5.3	7.3	8.5	9.2	8.2	6.1	3.7	1.9	1.1	58.4
Ponderosa	1.3	2.0	3.6	5.0	6.9	8.3	8.9	8.2	6.1	3.8	2.0	1.2	57.3
Porterville	1.3	2.1	3.8	5.4	7.4	8.6	9.3	8.3	6.2	3.8	1.9	1.2	59.3
Richgrove	1.4	2.2	3.9	5.4	7.4	8.6	9.2	8.3	6.2	3.9	2.0	1.3	59.8
Seville	1.2	2.0	3.7	5.2	7.2	8.4	9.0	8.0	5.9	3.6	1.8	1.1	57.1
Springville	1.4	2.2	3.9	5.4	7.4	8.8	9.4	8.5	6.3	3.9	2.0	1.2	60.4
Three Rivers	1.3	2.1	3.8	5.2	7.1	8.4	9.1	8.2	6.0	3.7	1.9	1.2	57.9
Traver	1.2	2.0	3.6	5.2	7.3	8.5	9.2	8.1	6.0	3.6	1.8	1.1	57.5
Tulare	1.2	2.0	3.7	5.3	7.3	8.5	9.2	8.1	6.0	3.7	1.8	1.1	57.9
Visalia	1.2	2.0	3.7	5.3	7.3	8.5	9.1	8.1	6.0	3.6	1.8	1.1	57.7
Woodlake	1.3	2.0	3.8	5.3	7.3	8.5	9.2	8.2	6.0	3.7	1.9	1.1	58.2
Tuolumne County													
Cold Springs	1.3	1.8	3.0	4.0	5.4	6.8	7.7	6.9	5.1	3.2	1.7	1.1	48.0
Columbia	1.3	1.9	3.2	4.5	6.2	7.6	8.5	7.5	5.5	3.4	1.7	1.1	52.5
Groveland	1.2	1.8	3.2	4.4	6.1	7.4	8.3	7.3	5.3	3.2	1.6	1.0	50.8
Sonora	1.3	1.9	3.3	4.5	6.3	7.7	8.6	7.6	5.5	3.4	1.7	1.1	52.7
Tuolumne City	1.2	1.8	3.2	4.4	6.0	7.4	8.2	7.3	5.3	3.3	1.6	1.1	50.7
Twain Harte	1.2	1.8	3.1	4.3	5.9	7.3	8.2	7.3	5.3	3.3	1.7	1.1	50.3

Ventura County													
Camarillo	2.5	2.6	3.7	4.5	5.1	5.2	5.9	5.5	4.6	3.7	2.7	2.2	48.2
Fillmore	2.5	2.7	3.8	4.7	5.6	6.1	6.9	6.4	5.1	3.9	2.7	2.2	52.6
Mussel Shoals	2.4	2.6	3.6	4.4	5.0	4.8	5.4	5.0	4.4	3.5	2.6	2.1	45.8
Ojai	2.4	2.6	3.7	4.6	5.4	5.8	6.5	6.0	4.9	3.8	2.6	2.1	50.4
Oxnard	2.5	2.6	3.6	4.4	4.9	4.8	5.4	5.0	4.3	3.5	2.6	2.2	45.6
Piru	2.5	2.7	3.9	4.9	5.8	6.4	7.2	6.6	5.3	4.0	2.8	2.2	54.2
Port Hueneme	2.5	2.6	3.5	4.3	4.7	4.5	5.1	4.7	4.1	3.5	2.6	2.2	44.2
Santa Paula	2.5	2.7	3.7	4.6	5.4	5.7	6.4	6.0	4.8	3.8	2.7	2.2	50.4
Thousand Oaks	2.5	2.6	3.6	4.5	5.1	5.4	6.1	5.7	4.6	3.7	2.6	2.2	48.6
Ventura	2.5	2.6	3.6	4.5	5.0	5.0	5.6	5.3	4.4	3.6	2.6	2.2	47.0
Yolo County													
Brooks	1.2	1.9	3.3	4.7	6.3	7.3	7.8	6.9	5.4	3.5	1.7	1.1	51.2
Clarksburg	1.2	2.0	3.5	4.9	6.7	7.9	8.5	7.6	5.8	3.8	1.8	1.1	54.8
Davis	1.2	2.0	3.4	4.9	6.7	7.8	8.3	7.4	5.6	3.8	1.7	1.1	54.0
Dunnigan	1.2	2.0	3.4	4.9	6.6	7.6	8.0	7.1	5.5	3.7	1.7	1.1	52.9
Esparto	1.2	2.0	3.4	4.8	6.5	7.5	7.9	7.1	5.5	3.7	1.7	1.1	52.3
Guinda	1.2	2.0	3.3	4.7	6.3	7.4	7.7	6.8	5.3	3.6	1.7	1.1	51.1
Knights Landing	1.2	2.1	3.5	4.9	6.7	7.8	8.3	7.4	5.6	3.8	1.8	1.1	54.1
West Sacramento	1.2	2.0	3.5	4.9	6.7	7.9	8.5	7.6	5.8	3.8	1.8	1.1	54.9
Winters	1.2	2.0	3.4	4.8	6.4	7.5	7.9	7.0	5.4	3.6	1.7	1.1	52.0
Woodland	1.2	2.0	3.4	4.9	6.7	7.8	8.3	7.4	5.6	3.8	1.7	1.1	53.9
Zamora	1.2	1.9	3.4	4.9	6.6	7.6	8.1	7.3	5.5	3.6	1.7	1.1	53.0
Yuba County													
Browns Valley	1.3	2.0	3.5	4.8	6.6	7.6	8.3	7.5	5.7	3.6	1.8	1.2	53.8
Brownsville	1.1	1.7	3.1	4.3	5.9	7.0	7.8	6.9	5.2	3.3	1.5	1.0	49.0
Camptonville	1.2	1.9	3.1	4.4	5.9	7.1	7.9	7.1	5.3	3.4	1.7	1.0	50.0
Dobbins	1.2	1.9	3.2	4.5	6.1	7.3	8.0	7.1	5.4	3.5	1.7	1.1	51.2
Loma Rica	1.3	2.1	3.5	4.8	6.5	7.6	8.2	7.3	5.6	3.7	1.8	1.1	53.5
Marysville	1.3	2.1	3.5	4.9	6.6	7.7	8.2	7.3	5.6	3.8	1.8	1.1	53.8
Olivehurst	1.3	2.1	3.5	4.9	6.6	7.7	8.2	7.3	5.6	3.8	1.8	1.1	53.9
Plumas Lake	1.3	2.1	3.5	4.9	6.6	7.8	8.3	7.4	5.6	3.8	1.8	1.1	54.2
Smartsville	1.3	2.0	3.4	4.7	6.4	7.5	8.1	7.3	5.6	3.6	1.7	1.1	52.7
Wheatland	1.3	2.1	3.5	4.9	6.6	7.7	8.4	7.5	5.7	3.8	1.8	1.1	54.3

[FN1]

The defined boundaries of each city and place are from the California Open Data website. The shapefiles and description can be found at (<https://data.ca.gov/dataset/ca-geographic-boundaries/resource/436fc714-831c-4070-b44b-b06dcde6bf18>).

[FN2]

The ETo values are monthly averages of Spatial California Irrigation Management Information System (CIMIS) for the 2004 to 2021 period. The Annual ETo is the sum of the monthly averages. ETo is expressed in inches.

Credits

HISTORY

1. New Appendix C filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Repealer and new Appendix C filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
3. Repealer and new appendix filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, Div. 2 Ch. 2.7 App. C, 23 CA ADC Div. 2 Ch. 2.7 App. C

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Barclays Official California Code of Regulations

Effective: January 2, 2025

Barclays California Code of Regulations

Title 23. Waters

Division 2. Department of Water Resources

Chapter 2.7. Model Water Efficient Landscape Ordinance

Effective: January 2, 2025

23 CCR Div. 2 Ch. 2.7 App. D

Appendix D Prescriptive Compliance Option. [Repealed][Currentness](#)**Credits****HISTORY**

1. New Appendix D filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).
2. Repealer filed 1-2-2025; operative 1-2-2025 pursuant to Government Code section 11343.4(b)(3) (Register 2025, No. 1).

This database is current through 7/4/25 Register 2025, No. 27.

Cal. Admin. Code tit. 23, Div. 2 Ch. 2.7 App. D, 23 CAADC Div. 2 Ch. 2.7 App. D

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