

State of California  
California Natural Resources Agency  
DEPARTMENT OF WATER RESOURCES  
Water Use and Efficiency  
Statewide Integrated Water Management

# Status of 2015 Urban Water Management Plans

A report to the Legislature pursuant to  
Section 10644 and 10608.42 of the California Water Code



**August 2017**

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**California Natural Resources Agency**  
John Laird, Secretary for Natural Resources  
**Department of Water Resources**  
Grant Davis, Director

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# List of Acronyms

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**AB** – Assembly Bill

**Act** - Urban Water Management Planning Act

**AWWA** – American Water Works Association

**CCF** – centum cubic feet

**CII** – Commercial, Industrial, and Institutional

**CWC or Water Code** – California Water Code

**DMM** – Demand Management Measures

**DWR or Department** – Department of Water Resources

**GPCD** – gallons per capita per day

**SB** – Senate Bill

**SB X7-7** – Senate Bill Seven of the Senate's Seventh Extraordinary Session of 2009

**SWRCB** – State Water Resources Control Board

**UWMP** – Urban Water Management Plan

**UWS** – Urban water supplier

**WSCP** – Water Shortage Contingency Plan

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## Executive Summary

The Department of Water Resources (DWR or Department) respectfully submits this report to the Legislature pursuant to the requirements of the Urban Water Management Planning Act. Specifically, California Water Code (CWC) §10644 and §10608.42 require the Department to summarize the status of Urban Water Management Plans (UWMPs), exemplary elements of UWMPs, progress towards achieving a statewide water use reduction of 20-percent by the year 2020 (20x2020), and provide recommendations to achieve the targeted 20-percent reduction in statewide water use by 2020 in this report.

This report incorporates the CWC's §10608.42 (SB X7-7 of 2009) requirement for DWR to report progress towards achieving a 20% reduction in per capita urban water use by December 31, 2020. The statute requires DWR to include recommendations on changes to water use efficiency standards on urban water use targets needed to achieve the 20% reduction, and to reflect updated efficiency information and technology changes.

UWMPs are prepared by California's urban water suppliers to support their long-term resource planning and ensure that adequate water supplies are available to meet existing and future water demands. The Urban Water Management Planning Act (CWC §10610 – 10656 supplemented by CWC §10608 et seq) specifies the requirements for UWMPs. Every urban water supplier that either provides over 3,000 acre-feet of water annually or serves 3,000 or more customers is required to submit an UWMP in years ending in one and six.

To date, 400 out of 435 urban water suppliers have submitted their 2015 UWMP, a 92% compliance rate, as summarized in the table below and listed in Appendix A.

2015 Urban Water Management Plan Submittals		
<b>Urban Water Suppliers (UWS) Identified by DWR (2015)</b>		<b>435</b>
	Retail UWS	389
	Wholesale UWS	36
	UWS that are both Wholesale and Retail	10
<b>UWS That Submitted 2015 UWMPs</b>		<b>400</b>
	Retail UWS	355
	Wholesale UWS	35
	UWS that are both Wholesale and Retail	10
<b>UWS That Did Not Submit 2015 UWMPs</b>		<b>35</b>
	Retail UWS	34
	Wholesale UWS	1
	UWS that are both Wholesale and Retail	0

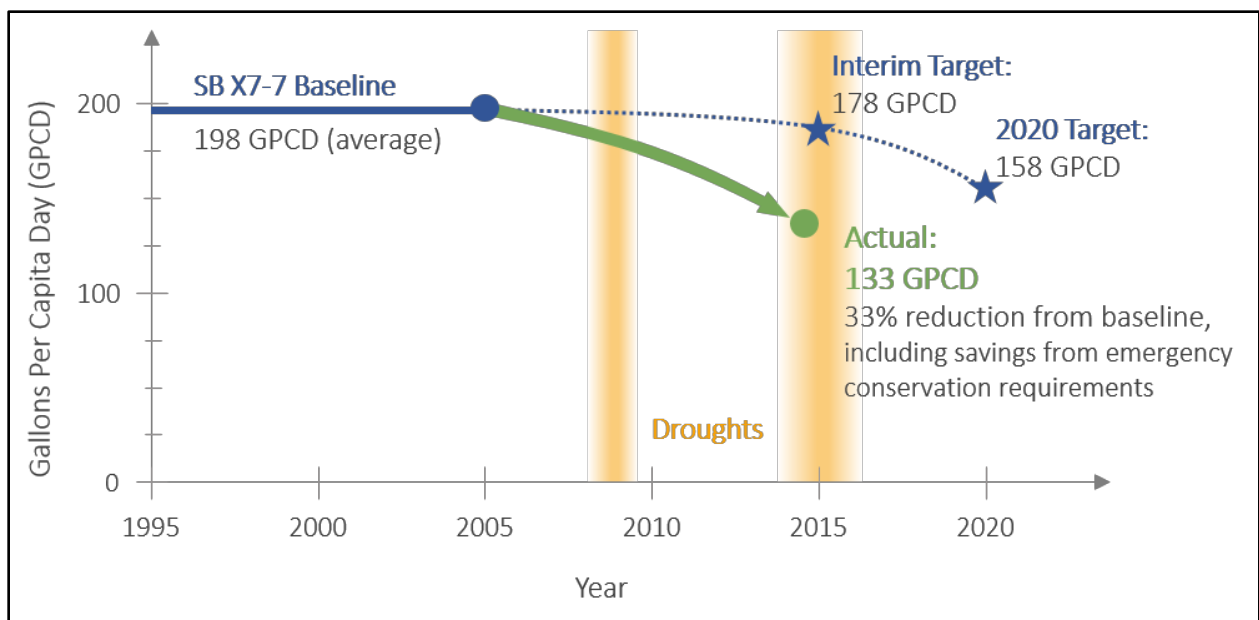
Urban water suppliers may submit individual UWMPs or may coordinate with other water suppliers and submit a regional UWMP. DWR has received five regional 2015 UWMPs. Appendix B lists the regional UWMPs received and the participating water suppliers.



With the passage of SB X7-7 (2009), California became the first state to adopt a water use efficiency target. SB X7-7 mandated the state to achieve a 20% reduction in per capita urban water use by 2020. It directed water suppliers to develop individual targets for water use based on a historical per capita baseline.

SB X7-7 also added new reporting requirements for water suppliers in submitting UWMPs. In the 2010 UWMPs, suppliers were required to calculate a baseline water use and set 2015 and 2020 water use targets. In the 2015 UWMPs, water suppliers were required to report on their progress to meet their 2015 interim water use targets.

California's interim 2015 urban water use target was calculated to be 178 gallons per capita per day (GPCD), and a statewide 2020 water use target of 158 GPCD. An evaluation of the reported water use in the 2015 UWMPs shows an average statewide water use of 133 GPCD, well below both the 2015 interim target and 2020 target, as shown in the graph below.



Of the 400 suppliers that submitted UWMPs, 365 are retail, or both retail and wholesale, urban water suppliers required to calculate and meet 2015 and 2020 water use targets. The remaining wholesale suppliers are not required to meet water use reduction targets. All 365 retail urban water suppliers met their 2015 water use targets.

In addition to reviewing the status of the 2015 UWMP submittals and reporting on compliance with the 2015 interim 20x2020 water use targets, this report also highlights new planning elements to the 2015 UWMPs, including mandatory water loss audits for distribution systems, a voluntary energy intensity analysis, and a voluntary estimate of future demand based on land use plans and code standards. Exemplary planning elements from submitted UWMPs are included that address demand management measures, water shortage contingency planning, recycled water usage and planning, water loss management and auditing, supply availability analysis, and demand forecasting.

DWR has not recommended, in this report, changes to water use efficiency standards or urban water use targets in order to achieve 20% reduction because it is likely that urban retail water suppliers will meet or exceed their 20x2020 targets. Recommendations for targets beyond 2020 are provided in a report<sup>1</sup> “Making Water Conservation a California Way of Life” released in April 2017. The April 2017 report is a joint publication of five state agencies: the Department, SWRCB, the California Public Utilities Commission, the California Department of Food and Agriculture, and California Energy Commission. This report is an implementation of Executive Order B-37-16 and includes recommendations for achieving efficient water use beyond the year 2020.

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<sup>1</sup> [http://www.water.ca.gov/wateruseefficiency/conservation/docs/20170407\\_EO\\_B-37-16\\_Final\\_Report.pdf](http://www.water.ca.gov/wateruseefficiency/conservation/docs/20170407_EO_B-37-16_Final_Report.pdf)

# I. URBAN WATER MANAGEMENT PLANNING

## A. Background and Statutory Requirements

Water planning is an essential function of water suppliers but becomes critical as California grapples with droughts and expected long-term climate change. Prior to the adoption of the Urban Water Management Planning (UWMP) Act in 1983, there were no specific requirements that water suppliers conduct long-term resource planning. While many water suppliers did long-term water planning anyway, those that did not were left vulnerable to supply disruptions during dry periods or catastrophic events. Urban water management planning at the local level is crucial. Only a local supplier has the knowledge and ability to tailor the planning to the unique local conditions and to involve the local community in that planning.

The UWMP Act has been modified over the years in response to the State's water shortages, droughts, and other factors. A significant amendment was made in 2009, after the drought of 2007- 2009 and as a result of the Governor's call for a statewide 20% reduction in urban water use by the year 2020. This was the Water Conservation Act of 2009, also known as SB X7-7. SB X7-7 required agencies to establish water use targets for 2015 and 2020 in order to achieve a 20% reduction in urban per capita water use by 2020.

### 1. Urban Water Suppliers

The UWMP Act (CWC §10610 – 10656, supplemented by CWC §10608 et seq.) specifies the requirements for UWMPs. Every urban water supplier that either provides over 3,000 acre-feet of water annually or serves 3,000 or more customers is required to submit a UWMP in years ending in one and six.

Required elements of a UWMP include a report on the progress that urban water suppliers are making in meeting their water use targets, current and projected water demands, current and projected water sources, water management actions to improve supply reliability and an evaluation of the sufficiency of supplies to meet the forecasted demands under both normal and drought conditions.

### 2. Department of Water Resources

As specified in the Act, water suppliers submit their UWMPs to the Department. The Department then reviews each urban water supplier's UWMP for consistency with the statutory requirements and prepares and submits a report to the Legislature. CWC §10644 and §10608.42 requires the Department to summarize the status of the plans, exemplary elements of the UWMPs, progress towards achieving a statewide water use reduction of 20-percent by the year 2020, and provide recommendations to achieve the targeted 20-percent reduction in statewide water use by 2020 in this report.

## B. Importance of Urban Water Management Plans

### 1. Importance to Urban Water Suppliers

The UWMP is a foundational water supply document for urban water suppliers. A well-prepared UWMP is used as the basis for a water supplier's short-term and long-term water management and planning, including preparation for droughts or other water supply shortage circumstances (such as emergency outages).

The preparation of UWMPs, with its requisite analysis of water supply and demand, provides an opportunity for increased consideration of multiple water supplies, including recycled water, desalinated water, and water from stormwater capture. The analysis also allows for consideration of demand management measures to more effectively manage water.

UWMPs offer an essential opportunity for an urban water supplier to inform their customers, other water suppliers, and local and state governmental bodies with a consistent and comprehensive analysis of water supply and demand conditions.

UWMPs may also serve as the foundation for other documents that incorporate water analyses, including a supply and demand analysis within a General Plan; a Water Supply Assessment (SB 610 WSA<sup>2</sup>); a Water Supply Verification (SB 221<sup>3</sup> Verification); the technical basis for an environmental analysis required under the California Environmental Quality Act; Integrated Regional Water Management (IRWM) Plans; Groundwater Sustainability Plans (GSPs); and other assessments.

### 2. Importance to the Department and the State of California

UWMPs provide essential information to DWR and the State in assessing progress toward achieving the goal of a statewide 20% reduction in per capita water use by the year 2020.

Data reported in UWMPs are used to document urban water use and conservation for purposes of statewide and regional planning.

UWMP preparers are required to provide estimates of future recycled water use. The 2015 UWMPs were a key source of recycled water data used in the 2015 Recycled Water Survey, recently completed jointly by DWR and the State Water Resources Control Board (SWRCB). System information, collaborating agencies, beneficial uses, and specific recycled water project data were integrated with the SWRCB's wastewater agency survey. Although recycled water originates with wastewater agencies, many water suppliers distribute recycled water, and obtaining recycled water information from water suppliers is critical to obtaining a complete picture of recycled water use. The UWMP is the only source of this information provided to the State and it allows DWR to make a reasonable estimate of the future contribution of recycled water to the state's water supply portfolio.

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<sup>2</sup> Public Resources Code 2115.9; Water Code 10631, 10656, 10910, 10911, 10912 and 10915

<sup>3</sup> Business and Professions Code 11010; Government Code 65867.5, 66455.3 and 66473.7

### C. DWR UWMP Guidance and Assistance to Water Suppliers

DWR provided guidance and assistance on UWMPs to urban water suppliers through the development of a 2015 UWMP guidebook, workshops, and web portal. A description of the assistance provided is listed below.

- **UWMP Guidebook.** DWR updated, and made available, a 2015 Urban Water Management Plans Guidebook for urban water suppliers to assist water suppliers in the preparation of their plans. The guidebook was developed with the assistance of the Guidebook Advisory Committee, consisting of representatives from urban water suppliers and others.  
[http://www.water.ca.gov/urbanwatermanagement/docs/2015/UWMP\\_Guidebook\\_Mar\\_2016\\_FINAL.pdf](http://www.water.ca.gov/urbanwatermanagement/docs/2015/UWMP_Guidebook_Mar_2016_FINAL.pdf)
- **Online UWMP Submittal capability.** DWR developed a new online portal for urban water suppliers to submit their 2015 UWMPs and associated data to DWR and to access the DWR population tool.  
[https://wuedata.water.ca.gov/secure/login\\_auth.asp?msg=inactivity&referer=%2Fsecure%2FDefault%2Easp?](https://wuedata.water.ca.gov/secure/login_auth.asp?msg=inactivity&referer=%2Fsecure%2FDefault%2Easp?)
- **DWR Population Tool.** DWR developed a population mapping tool that provides a simple and streamlined approach to estimating service area population using census and Geographic Information System data. Accurate population figures are critical to GPCD calculations. Forty-one percent (41%) of all urban retail water suppliers used the population tool to calculate their service area population for their 2015 UWMPs.  
[http://www.water.ca.gov/calendar/materials/wuedata\\_populationtool\\_webinarpresentation\\_2015-12-01\\_final\\_20049.pptx](http://www.water.ca.gov/calendar/materials/wuedata_populationtool_webinarpresentation_2015-12-01_final_20049.pptx)
- **2015 UWMP Standardized Tables & SB X7-7 Verification Form.** DWR developed standardized forms and tables for water suppliers to report their 2015 UWMP data. These standardized forms and tables provide greater transparency and accessibility of the UWMP data. <http://www.water.ca.gov/urbanwatermanagement/uwmp2015.cfm>.
- **Methodologies for Calculating Baseline and Compliance Urban Per Capita Water Use.** DWR revised and updated technical methodologies to provide guidance to urban retail water suppliers in developing baseline per capita water use and the 20x2020 water use targets. The revision included a methodology for making adjustments to per capita urban water use to account for changes in weather or economic conditions.  
[http://www.water.ca.gov/wateruseefficiency/sb7/docs/MethodologiesCalculatingBaseline\\_Final\\_03\\_01\\_2011.pdf](http://www.water.ca.gov/wateruseefficiency/sb7/docs/MethodologiesCalculatingBaseline_Final_03_01_2011.pdf)
- **Process Water Regulation.** DWR developed a regulation to allow for the exclusion of process water -- the water used to produce a product or the water used in research and development -- from baseline and target water use calculations. The exclusion of process water can only be used by suppliers who meet thresholds established in the regulation.  
<http://www.dwr.water.ca.gov/wateruseefficiency/sb7/docs/FinalTextRegulation.pdf>

- **Public Workshops.** DWR conducted a series of ten workshops throughout the state to assist urban water suppliers, consultants, planners, and other interested parties in preparing UWMPs. Each workshop was well attended and provided step-by-step guidance and information.  
<http://www.water.ca.gov/urbanwatermanagement/docs/2015/Workshop%20Flyer%20v2.pdf>
- **Web portal: Water Use Efficiency (WUE) Data.** DWR has developed a web portal, referenced as WUEdata, to collect urban water management plan data in a database. Every UWMP and all associated data is immediately available to DWR and the public as soon as it is submitted. <https://wuedata.water.ca.gov/>

## II. 2015 UWMP SUBMITTALS

This section has statistical data associated with submitted UWMPs including the number of plans submitted and compliance with 2015 interim water use targets.

DWR has identified 435 urban water suppliers, both retail and wholesale, as defined in the CWC<sup>4</sup>. As of July 17, 2017, 400 suppliers have adopted UWMPs and submitted them to DWR. Of the 400 suppliers that submitted UWMPs, 365 are retail suppliers, ten of which are both retail and wholesale. Thirty five are wholesale suppliers only. Only the retail suppliers are required to submit information on baseline and target calculations. A summary of submittals is provided in Table 1.

**Table 1: 2015 Urban Water Management Plan Submittals**

<b>2015 Urban Water Management Plan Submittals</b>		
<b>Urban Water Suppliers (UWS) Identified by DWR (2015)</b>		<b>435</b>
	Retail UWS	389
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	Retail UWS	34
	Wholesale UWS	1
	UWS that are both Wholesale and Retail	0

Appendix A is a list of all 435 urban water suppliers, the status of their 2015 UWMP submittals, and information about their 2015 and 2020 targets, when applicable. Urban water suppliers may submit individual UWMPs or may coordinate with other water suppliers and submit a regional

<sup>4</sup> CWC Section 10617 defines an “Urban Water Supplier” as a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre feet of water annually.

UWMP. DWR has received five regional 2015 UWMPs from 22 urban water suppliers. Appendix B lists the regional UWMPs received and the participating water suppliers.

### III. COMPLIANCE WITH 2015 WATER USE TARGETS

With the adoption of the Water Conservation Act of 2009, the State set a goal of reducing per capita urban water use by 20% by the year 2020 – also known as the “20x2020” goal. Each retail urban water supplier is required to determine its baseline water use and target water use for the years 2015 and 2020 to help the state achieve the mandated 20% reduction.

#### A. Urban Water Supplier Water Use Targets and Compliance

Retail urban water suppliers are required to calculate their 2020 water use target using one of four methods<sup>5</sup>:

- *Method 1*: Eighty percent of the water supplier’s baseline per capita water use
- *Method 2*: Per capita daily water use estimated using a budget-based approach of the sum of performance standards applied to indoor residential use, landscaped area water use, and CII uses
- *Method 3*: Ninety-five percent of the applicable hydrologic region target as stated in the State’s April 30, 2009, draft 20x2020 Water Conservation Plan
- *Method 4*: An approach developed by DWR with stakeholder input and reported to the Legislature in December 2010

Under certain conditions, a water supplier’s water use target may need to be adjusted further to achieve a minimum 5% reduction from baseline in water use regardless of the target method.<sup>6</sup>

Water suppliers must compare their actual water use in 2015 and 2020 with their calculated targets to assess compliance. The 2015 target is halfway between the baseline water use and the 2020 target. All baseline, target, and compliance-year water use estimates must be calculated and reported as per capita water use in GPCD.

SB X7-7 also allows urban retail water suppliers to jointly set and comply with urban water use targets on a regional basis. The regional groups are called regional alliances.

The number of retail urban water suppliers using each of the methods to set their 2015 and 2020 water use targets is shown in Table 2.

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<sup>5</sup> Methodologies for calculating baseline and target GPCDs are found in the CWC sections 10608.16 – 10608.44 (SBX7-7) as well as DWR’s publication Methodologies for Calculating Baseline and Compliance Urban Per Capita Water Use, DWR 2011, updated in 2016.

<sup>6</sup> CWC Section 10608.22.

**Table 2: Target Method Selection**

Target Method Selection		
Target Method	# of Suppliers Selecting	Percent of Suppliers Selecting
1	227	62%
2	3	1%
3	116	32%
4	19	5%

In the 2015 UWMPs, urban retail water suppliers reported on compliance with their established interim water use target for the year 2015. Compliance with this interim target demonstrates that a supplier is on track to achieve its 2020 target.

To verify compliance, DWR reviewed the 2015 interim water use data and compared it with each supplier's target. Each of the 365 urban retail water suppliers that submitted UWMPs to DWR met their 2015 interim water use target.

#### B. Water Use Targets and Compliance by Hydrologic Region

DWR divides the State into ten hydrologic regions that correspond to the State's major drainage basins. Using 2015 UWMP data, DWR calculated the baseline, target, and actual water use by hydrologic region as shown in Table 3 and Figure 1.



**Table 3: 2015 Baseline, Target, and Actual Water Use by Hydrologic Region**

<b>2015 Water Use by Hydrologic Region<sup>a</sup></b>						
<b>HYDROLOGIC REGION</b>	<b>Baseline Population</b>	<b>2015 Population</b>	<b>Baseline GPCD<sup>b</sup></b>	<b>2015 Target GPCD<sup>b</sup></b>	<b>2015 Actual GPCD<sup>b</sup></b>	<b>Percent Reduction from Baseline to 2015 Actual</b>
Central Coast	1,074,794	1,163,830	149	138	102	31%
Colorado River	557,918	660,622	394	357	251	36%
North Coast	352,651	403,139	154	140	96	38%
North Lahontan	51,310	49,588	282	260	190	33%
Sacramento River	2,047,369	2,448,466	279	253	161	42%
San Francisco Bay	5,816,788	6,432,272	157	147	101	35%
San Joaquin River	1,243,697	1,471,239	237	217	147	38%
South Coast	17,698,220	19,634,549	188	177	132	30%
South Lahontan	640,423	845,095	251	228	143	43%
Tulare Lake	1,317,209	1,632,439	288	260	185	36%
<b>STATEWIDE</b>	<b>30,800,379</b>	<b>34,741,239</b>	<b>198</b>	<b>178<sup>c</sup></b>	<b>133</b>	<b>33%</b>

<sup>a</sup> Water suppliers may report their UWMP data on either a fiscal or calendar year basis. This data is a compilation of calendar and fiscal year data, as reported in the 2015 UWMPs.

<sup>b</sup> All GPCDs in Table 3 are population weighted averages.

<sup>c</sup> The statewide 2015 Target GPCD is calculated as a 10% reduction from the statewide baseline GPCD.

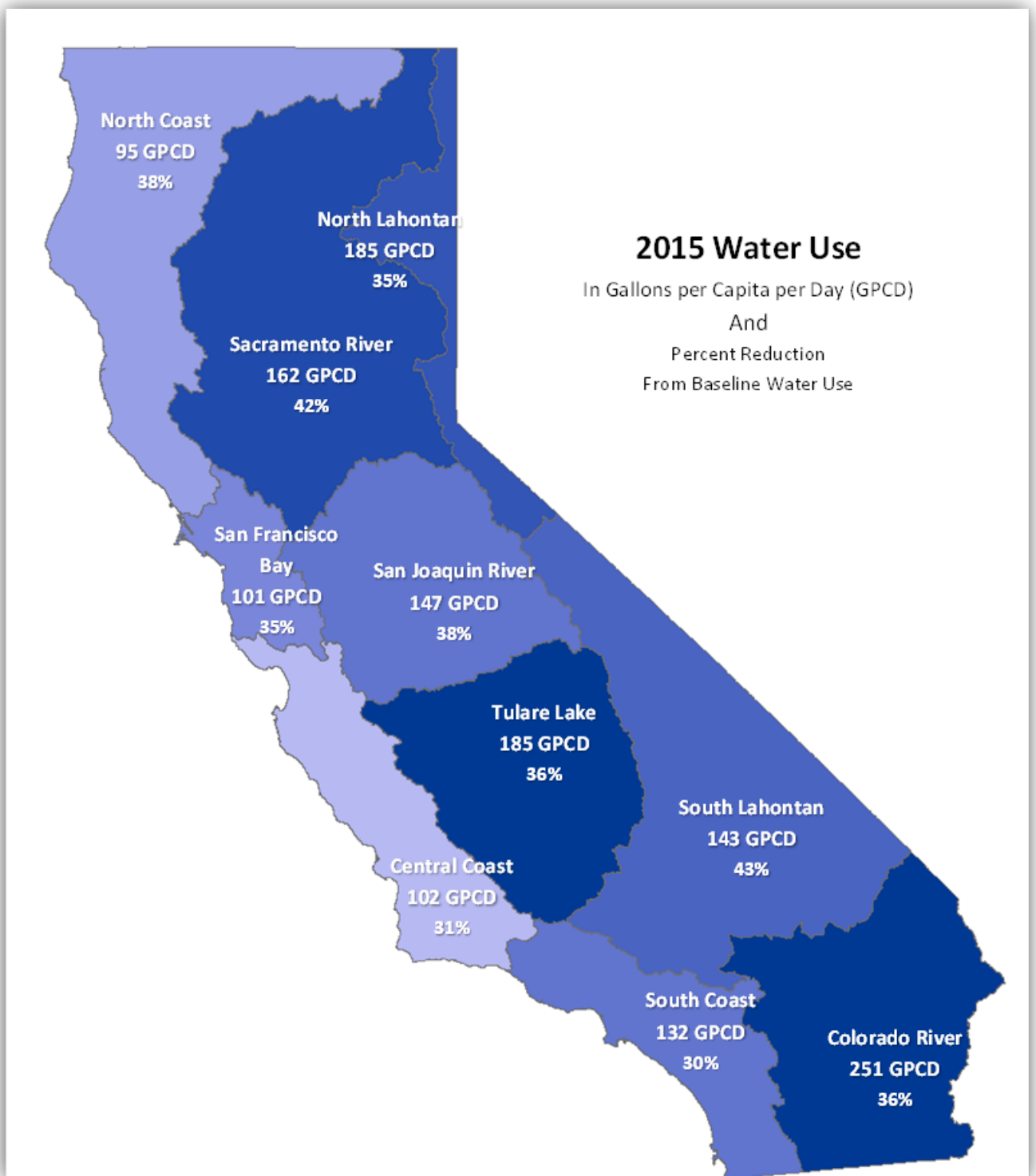
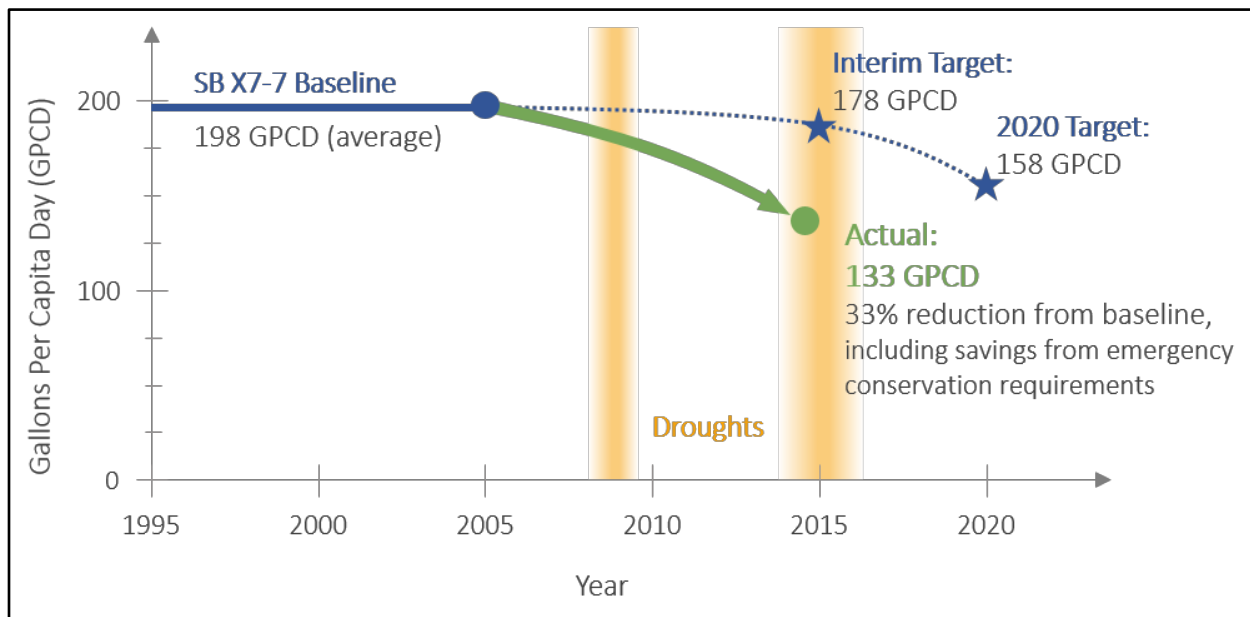


Figure 1: 2015 Per Capita Water Use and Percent Reduction from Baseline by Hydrologic Region

### C. Statewide Water Use Targets and Compliance

DWR expects California to meet or exceed its 20% conservation goal by 2020.

CWC §10608.42 directs DWR to review the water use data reported in the 2015 UWMPs and report on progress towards achieving a 20 percent reduction in per capita urban water use by 2020. If the state is not on track, DWR is to make recommendations on changes to the efficiency standards or water use targets in order to achieve the 20 percent reduction.



**Figure 2: Progress Toward 20% Water Use Reduction by 2020**

As shown in Figure 2, the statewide baseline is 198 GPCD, the 2015 interim target is 178 GPCD and the 2020 target is 158 GPCD. Statewide water use in 2015 was 133 GPCD, significantly below both the 2015 interim and 2020 targets, a 33% reduction from baseline. This was due in part to the mandatory conservation measures in 2015.

In light of this 2015 interim water use reporting, DWR expects the urban water suppliers to meet or exceed their individual and the statewide 2020 water use target in 2020. DWR acknowledges that some of the water savings achieved in 2015 will be short-term and expects some rebound in water use with the easing of the state-mandated drought restrictions. However, DWR anticipates that the state will still be significantly under the 20 percent reduction goal for several reasons.

Generally, water use after a drought does not fully return to pre-drought levels. For example, in 2013, four years after the 2007-2009 drought, water use was significantly reduced for many suppliers. For example, 2013 water use for San Diego County Water Authority, City of Los Angeles, and California Water Service was down 26%, 18% and 13% respectively from the levels prior to the 2007 drought.

Water suppliers and the public have also implemented a significant number of long term water use efficiency measures that will continue to reduce per capita urban water use between the

baseline period and 2020. The 20x2020 Water Conservation Plan<sup>7</sup> estimated an 11 GPCD reduction from fixture and washing machine standards alone, and the drought may have increased this reduction value with the accelerated replacement of inefficient fixtures. Water use reductions will also be significant as a result of new landscape ordinances, the trend toward new housing stock with smaller landscape areas and accelerated metering programs in many Central Valley communities. Updated Cal Green building standards<sup>8</sup> will also contribute to further reductions in indoor and outdoor water use because of its mandatory standards for water efficient toilets, urinals, faucets, showerheads, and landscape irrigation. Additionally, suppliers and the State have implemented a significant number of rebate programs for landscape conversion, toilet retrofits, and commercial, industrial and institutional water use improvements.

The slow rebound in water use after the drought and the continued improvement in water use efficiency are shown in the monthly reporting to the State Water Resources Control Board. In the year since mandatory conservation requirements were lifted in June of 2016, statewide water use remained roughly 20% lower than pre-drought levels. In June of 2017, after record rainfall, statewide per capita urban water use continued to be down 17.4% from pre-drought levels.

#### D. Recommendations

DWR has not recommended, in this report, changes to water use efficiency standards or urban water use targets in order to achieve 20% reduction because it is likely that urban retail water suppliers will meet or exceed their 20x2020 targets. Recommendations for targets beyond 2020 are provided in a report<sup>9</sup> “Making Water Conservation a California Way of Life” released in April 2017. This report is a joint publication of five state agencies: the Department, SWRCB, the California Public Utilities Commission, the California Department of Food and Agriculture, and California Energy Commission. This report is an implementation of Executive Order B-37-16 and includes recommendations for achieving efficient water use beyond the year 2020.

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<sup>7</sup> <http://www.water.ca.gov/wateruseefficiency/sb7/docs/20x2020plan.pdf>

<sup>8</sup> Building Standards Code, Title 24, Part 11 Sections 4.3 and 5.3

<sup>9</sup> [http://www.water.ca.gov/wateruseefficiency/conservation/docs/20170407\\_EO\\_B-37-16\\_Final\\_Report.pdf](http://www.water.ca.gov/wateruseefficiency/conservation/docs/20170407_EO_B-37-16_Final_Report.pdf)

## IV. PLANNING ELEMENTS NEW TO 2015 UWMPs

Legislation provided for reporting of several new elements in the 2015 UWMPs.

### 1. Water Loss Audits

CWC §10631 (e)(3) requires urban water suppliers to include water loss audits of their distribution systems with their 2015 UWMPs. For subsequent updates of the UWMPs, it further requires the distribution water loss to be quantified for each of the five years preceding the plan update. The audits were completed using the American Water Works Association (AWWA) methodology and software. DWR's reviewers checked the audits for completeness and retained an expert consultant in the water loss audit field to analyze the audits. The consultant concluded that the quality of the audits could be improved with training and assistance. A statewide technical assistance and training program offered to retail urban water suppliers is currently underway to improve the consistency and accuracy of future audits. The California-Nevada Section of the AWWA is leading the program. SWRCB provided significant funding for the program. In addition, SB 555 (2015) now also requires urban water suppliers to submit a validated water loss audit to DWR annually beginning October 1, 2017.

### 2. Energy Intensity Analysis

CWC §10631.2(a) allows for, but does not require, the voluntary reporting of the energy intensity associated with sources of water used by the urban water supplier. The code spells out a number of different types of energy-related information that can be included.

CWC §10631.2(b) directed DWR to develop a methodology for the voluntary calculation or estimation of the energy intensity of urban water system. DWR developed this guidance and included it in the 2015 UWMP Guidebook as Appendix O. It provided a methodology and tools for calculating the operational energy intensity for each supplier's water management processes.

Of the 400 UWMPs submitted to DWR as of July 17, 2017, 25 urban water suppliers elected to submit voluntary water-energy data using DWR's guidelines. These urban water suppliers combined represent about 1 million acre-feet of delivered water annually.

### 3. Estimating Future Demand

For the 2015 UWMPs, CWC §10631(e) (4) provides the option for urban water suppliers to reflect its and its customer's efficiency efforts as part of future demand projection. Specifically, it states, "If available and applicable to an urban water supplier, water use projections may display and account for the water savings estimated to result from adopted codes, standards, ordinances, or transportation and land use plans...."

DWR prepared Appendix K to accompany the 2015 UWMP Guidebook to help water suppliers understand how to best organize water demand forecasts to account for savings from adopted codes, standards, ordinances or transportation and land use plans. A large number of urban water suppliers adopted the recommended methods for demand calculations in the 2015 UWMP cycle that will help refine statewide demand estimations and more accurately account for demand conditions.

Estimating future demands is a critical function for an urban water supplier to (a) manage compliance with State mandates (e.g. per capita targets); (b) understand and evaluate effects of its own water use, including ordinances, growth, and conservation actions; (c) support infrastructure planning, capital improvement plans, and rate setting; and (d) inform land-use planning such as community General Plans, Specific Plans, Urban-infill Plans, IRWM Plans and GSPs.

#### **4. Coordination of 2015 Recycled Water Survey with 2015 UWMPs**

The 2015 UWMPs were one of two key sources of recycled water data used in the joint DWR and SWRCB 2015 Recycled Water Survey. DWR updated the UWMP recycled water reporting to better capture information crucial to assessing the status of recycled water statewide as well as future uses. System information, collaborating agencies, beneficial uses, and specific recycled water projects were integrated with the SWRCB's wastewater agency survey enabling a subsequent interagency, comprehensive analysis of statewide recycling of municipal wastewater. Although recycled water originates with wastewater agencies, many water agencies distribute recycled water. Consequently, obtaining recycled water information from water suppliers is critical to obtaining the complete recycled water picture.

This coordinated collection of data for dual purposes lays the groundwork for a more streamlined survey process, supports consistent data reporting, and facilitates water supply planning.

Urban water suppliers also provided estimates of future recycled water use. This is the only source of these estimates provided to the State, and it enables DWR to make a reasonable assessment of the future contribution of recycled water to the state's water supplies.

## **V. EXEMPLARY ELEMENTS OF 2015 UWMPs**

The UWMP Act requires DWR to identify the exemplary elements of demand management measures (DMMs) of individual plans. DWR is providing examples of exemplary elements in the following six categories:

- Demand Management Measures
- Water Shortage Contingency Planning
- Demand Forecasting
- Water Loss Management and Auditing
- Supply Availability Analysis
- Recycled Water Planning and Usage

## A. Demand Management Measures

Demand Management Measures (DMMs) are specific measures implemented by urban water suppliers to reduce water demand and to achieve their water use reduction targets. The water suppliers listed below are a sample of suppliers that demonstrated exemplary implementation of certain DMMs, and are among the many suppliers that have exceeded their targeted water use reductions for 2015.

- **Metering – Paradise Irrigation District.** Paradise Irrigation District replaced approximately 7,500 meters in 2010 and retrofitted the remaining 3,000 meters with automated registers. Every meter in the district is now 15 years old or newer. The district committed to a \$5 million meter replacement and automation project in 2009. This system provides the district with the ability to notify customers of potential leaks in their system within three days. The district exceeded its 2015 water use target by 40%.
- **Conservation Pricing – Irvine Ranch Water District.** Irvine Ranch Water District's budget-based rate structure was instituted in 1991 to promote the efficient use of water and is designed to provide customers a significant economic incentive to use the proper amount of water required to serve their demands. This was accomplished by setting a customized monthly water budget for each customer account. The basis for the water budgets were reviewed and updated in 2015 to reflect changes in plumbing codes, water use efficiency practices, and the 2015 Emergency Drought Regulation. Customers using water within budget were rewarded with very low water bills. Customers using water in excess of their budget received relatively high water bills and a strong pricing signal for excessive use. The district exceeded its 2015 water use target by 33%.
- **Public Education and Outreach – Dublin San Ramon Services District.** In 2014 and 2015, Dublin San Ramon Services District mounted a multipronged drought outreach effort that included: regional advertising via radio, TV, and social media; letters to customers explaining limitations and enforcement measures, including targeted letters to the highest water users; extensive on-line resources for customers to manage and monitor their water use; a free, recycled water fill station; and numerous outreach materials such as tote bags, flyers, stickers, yard signs, and table tents with water conservation messaging. The district exceeded its 2015 water use target by 57%.

## B. Water Shortage Contingency Planning

Effective water shortage contingency planning allows for adequate time and consideration of plausible water shortage scenarios and preparation of appropriate responses. Below are examples of three important elements of an effective water shortage contingency plan (WSCP) as reported in the UWMPs of three water suppliers.

- **Quantitative Criteria Trigger the Stages of the WSCP – City of Reedley.** In its 2015 UWMP, the City of Reedley established clear criteria to trigger enactment of the various stages of their WSCP. The stages progress from a mild shortage to a severe shortage as quantified by two criteria: the length of time that the city has experienced below average precipitation and the percent loss of production capacity.



- **Stages Communicate Increasing Prohibitions – City of Pasadena.** The stages in the WSCP for the City of Pasadena clearly escalate water use restrictions as water shortages become more severe. For example, landscape irrigation is first restricted to three days a week, and then is progressively reduced to the point where landscape irrigation is prohibited. These distinct and easy to follow prohibitions, communicated clearly to the end users, are essential to successful reduction of water use.
- **Drought Rate Structures in Place – City of Santa Cruz.** The City of Santa Cruz has adopted penalties for excessive water use that are ready for implementation as needed. Development and adoption of drought rate structures or surcharges is a lengthy process that is best done before the charges are needed. When in a stage of water rationing, the City provides a water allocation to each customer and imposes an excessive water use penalty when the allocation is exceeded. For excess use up to 10% over the allotment, users are penalized up to \$25/centum cubic feet (CCF)<sup>10</sup>. For excess use greater than 10% over the allotment, users are penalized up to \$50/CCF.

### C. Demand Forecasting

Forecasting future water demands is a critical function of an urban water supplier's water management planning. Using sound forecasting methods allows an urban water supplier to understand and evaluate customer trends, effects of codes and ordinances, and expected impacts of growth, while also supporting water supply and infrastructure management and planning. As noted in Appendix K in the 2015 UWMP Guidebook, effective demand forecasting needs the use of existing supplier-specific customer use data, demographics, and land use information, along with an understanding of population projections, trends and mandates affecting customer use, and the future plans and expectations of local land use entities. Water demands are generally calculated using either (1) SB X7-7 per capita targets in combination with well understood existing and future population and demographics, or (2) unique unit demand factors associated with various land classifications in combination with specific existing and projected land use information.

- **Alameda County Water District** provided an exemplary demand calculation section in its 2015 UWMP. The District undertook a comprehensive evaluation of existing demands and land uses as part of regular updates to demand forecasts. The analysis includes coordination with local city planning staff to understand future land use plans, and the existence of lands already approved for growth but still awaiting construction. It also reflects regional, national and global economic factors; lingering post-drought conservation ethics; post-drought rebounds in demand; and the effect of the District's on-going programs and State plumbing code changes on both active and passive conservation. Through its efforts, the District developed a realistic forecast of future water demands, allowing it to predict the ability to successfully achieve 20x2020 per-capita targets, adequately plan and manage existing and planned water supplies, and provide an UWMP that local city planning staff can rely upon for current and future land use planning activities.

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<sup>10</sup> One CCF equals 748 gallons.



## D. Water Loss Management and Auditing

Urban water suppliers were required to include a water loss audit report with their 2015 UWMP for the first time in 2015. SB 1420 (2014) set the requirements in CWC §10631 (e)(3). The code states that an UWMP shall quantify distribution system water loss for the most recent 12-month period available. DWR adopted AWWA's water system balance methodology and water loss quantification worksheet as the standardized format. An effective water loss management and auditing program includes preparation of a water loss audit using good quality data enabling the identification of cost effective approaches for addressing a distribution system's water loss.

- **Sweetwater Authority** in San Diego County is a retail urban water supplier that has significantly improved the quality of their water loss auditing, and can use their audits in combination with a leak detection and repair program to better manage water and reduce real and apparent water losses. In 2009, Sweetwater Authority began annual distribution system water audits following the AWWA method. System loss is determined by comparing total water use with total water production. Sweetwater Authority's 12-month average water loss was 4% as calculated in a recent water audit. The 2014 audit, validated by a non-revenue water expert, recorded an average of real losses of 3.5 gallons per connection per day. It further found that approximately 5% of water supplies were classified as non-revenue water.

## E. Supply Availability Analysis

An UWMP's water supply availability analysis requires reviewing the details of a water supplier's water rights and water contracts under varying hydrological conditions. In this review, an UWMP preparer examines important information about the water supply availability under varying conditions and extrapolates a broad picture of the monthly water supply availability in a water supplier's water supply portfolio. Moreover, climate variability and regulatory change may greatly impact a water supply analysis and should be incorporated into any projection of historic reliability to the future.

- **Santa Clara Valley Water District**, a wholesale water supplier, has multiple water supply sources that benefit from rigorous analysis to best manage the sources for long-term reliability. The District provided an in-depth water supply analysis for the 2015 UWMP, and examined the details of its surface and groundwater supplies, noting specific differences and risk in each water supply asset under various hydrological conditions. The District also discussed the conjunctive management of its groundwater basin in a manner that extends the availability of surface resources by directly storing available surface supplies in the aquifer, or gaining in-lieu benefits by actively switching between surface and groundwater resources. Finally, the District examined water supply variability in the context of regulatory uncertainty and climate change. It observed that to address constraints on water supplies and the challenges of an uncertain future, planning needs to continually develop and improve resilient and adaptable water supplies and strategies. Their effort captures the essence of the UWMP Act.

## F. Recycled Water Planning and Usage

2015 UWMPs provided essential information for understanding how recycled water is generated, conveyed, and reused. Many water suppliers working with wastewater agencies provided excellent recycled water information in their UWMP, but noteworthy examples are:

- **Integrating Agricultural Reuse in Small Communities - City of Newman.** The City of Newman provided an excellent example of how a small community can easily integrate agricultural irrigation of recycled water into its wastewater management system. Newman's discussion was simple, very clear, and provided useful information on how recycled water use has been integrated into agricultural practices.
- **Explaining Complex Recycled Water Relationships - West Basin Municipal Water District.** West Basin Municipal Water District receives secondary effluent from the City of Los Angeles and then treats it to five different treatment levels to provide almost 32,000 acre-feet annually of recycled water to its customers. This is explained well in its UWMP.
- **Providing Information on Geographically Distinct Areas - Calaveras County Water District.** Calaveras County Water District maintains 10 geographically separate systems within the county. Their UWMP clearly provided the required information through the use of illustrative graphics, tables, and narratives.

## VI. CONCLUSION: 2015 UWMPs AND 2020 TARGET COMPLIANCE

UWMPs are prepared by California's urban water suppliers to support their long-term resource planning and ensure that adequate water supplies are available to meet existing and future water demands. As required by the UWMP Act, all urban water suppliers are required to submit a plan every five years. The 2015 UWMPs were due July 1, 2016. To date, 400 out of 435 urban water suppliers have submitted their 2015 UWMP, a 92% compliance rate.

California is well on track to meeting or exceeding its 20% reduction in per capita urban water use by 2020, collectively and at the individual water supplier level. All of the 365 urban *retail* water suppliers that submitted UWMPs to DWR have met their 2015 water use targets.<sup>11</sup> Collectively, 2015 water use was down 33% from baseline water use. The statewide average water use target for 2015 was 178 GPCD, and the actual water use for 2015 was 133 GPCD, which is 45 GPCD lower than the 2015 target, and 25 GPCD below 2020 target.

Suppliers significantly reduced water use both to meet their targets and in response to the mandatory drought cutback required by SWRCB. While, the short term mandatory conservation measures are no longer required, DWR anticipates that heightened water use awareness, appliance and fixture standards, and new landscape ordinances will keep the State on track to achieve its targeted 20% reduction by 2020.

DWR has not recommended, in this report, changes to water use efficiency standards or urban water use targets in order to achieve 20% reduction because it is likely that urban retail water suppliers will meet or exceed their 20x2020 targets. Recommendations for targets beyond 2020 are provided in a report<sup>12</sup> "Making Water Conservation a California Way of Life" released in April 2017. This report is a joint publication of five state agencies: the Department, SWRCB, the California Public Utilities Commission, the California Department of Food and Agriculture, and California Energy Commission. This report is an implementation of Executive Order B-37-16 and includes recommendations for achieving efficient water use beyond the year 2020.

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<sup>11</sup> Of the 400 suppliers who submitted UWMPs, 365 were retail or combined retail and wholesale suppliers required to calculate and meet a 2015 water use target. The other 35 suppliers submitting UWMPs were wholesalers, not required to meet water use targets.

<sup>12</sup> [http://www.water.ca.gov/wateruseefficiency/conservation/docs/20170407\\_EO\\_B-37-16\\_Final\\_Report.pdf](http://www.water.ca.gov/wateruseefficiency/conservation/docs/20170407_EO_B-37-16_Final_Report.pdf)

# Appendix A: Submittal of 2015 Urban Water Management Plans

Urban Water Suppliers and 2015 UWMP Submittals						
Water Supplier Name	Purveyor Type	Submittal Date	2015 Target GPCD	2015 Actual GPCD	% Reduction Baseline to 2015	2020 Target GPCD
Adelanto City Of	Retail	6/27/2016	252	109	65%	192
Alameda County Flood Control District Zone 7	Wholesale	4/1/2016	N/A	N/A	N/A	N/A
Alameda County Water District	Retail	6/15/2016	153	100	41%	137
Alco Water Service	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Alhambra City Of	Retail	5/11/2017	138	104	28%	132
Amador Water Agency	Retail	6/30/2016	613	309	58%	495
American Canyon City Of	Retail	6/28/2016	183	130	36%	162
Anaheim City Of	Retail	12/23/2016	183	129	36%	162
Anderson City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Antelope Valley - East Kern Water Agency	Wholesale	6/28/2016	N/A	N/A	N/A	N/A
Antioch City Of	Retail	6/13/2016	175	114	38%	165
Apple Valley Ranchos Water Company	Retail	6/27/2016	268	144	52%	238
Arcadia City Of	Retail	6/28/2016	268	247	17%	238
Arcata City Of	Retail	5/31/2016	117	94	23%	113
Arroyo Grande City Of	Retail	2/7/2017	172	113	41%	153
Arvin Community Service District	Retail	11/16/2016	143	81	49%	127
Atascadero Mutual Water Company	Retail	6/22/2016	178	132	33%	158
Atwater City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Azusa City Of	Retail	7/1/2016	189	143	32%	168
Bakersfield City Of	Retail & Wholesale	6/30/2017	284	215	32%	253
Bakman Water Company	Retail	6/30/2016	232	167	35%	206
Banning City Of	Retail	6/21/2016	284	196	38%	252
Beaumont - Cherry Valley Water District	Retail	3/1/2017	272	181	40%	242
Bella Vista Water District	Retail	12/15/2016	853	335	65%	758
Bellflower - Somerset Mutual Water Company	Retail	6/30/2016	113	85	29%	107
Benicia City Of	Retail	7/3/2016	186	135	30%	179
Beverly Hills City Of	Retail	7/1/2016	262	216	26%	233
Big Bear Community Services District	Retail	6/28/2016	99	73	30%	94
Big Bear Lake City Of	Retail	6/29/2016	96	73	28%	91
Blythe City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Brawley City Of	Retail	6/27/2016	310	160	53%	275
Brea City Of	Retail	6/29/2016	248	222	19%	221
Brentwood City Of	Retail	6/17/2016	217	141	42%	193
Buena Park City Of	Retail	6/23/2016	178	122	39%	158

Water suppliers that submitted a 2015 UWMP

Water suppliers that did NOT submit a 2015 UWMP

Water suppliers that submitted a 2015 UWMP but were not required to do so

Urban Water Suppliers and 2015 UWMP Submittals						
Water Supplier Name	Purveyor Type	Submittal Date	2015 Target GPCD	2015 Actual GPCD	% Reduction Baseline to 2015	2020 Target GPCD
Burbank City Of	Retail	6/30/2016	177	127	36%	157
Burlingame City Of	Retail	6/28/2016	152	113	33%	135
Calaveras County Water District	Retail	6/30/2016	216	179	25%	192
Calexico City Of	Retail	6/14/2017	176	128	29%	172
California American Water Company - Los Angeles Division	Retail	6/30/2016	201	151	30%	187
California American Water Company - Monterey District	Retail	6/30/2016	131	94	35%	118
California American Water Company - Sacramento District	Retail	6/30/2016	195	130	40%	173
California American Water Company - San Diego District	Retail	6/30/2016	118	88	27%	116
California American Water Company - Ventura District	Retail	6/30/2016	262	197	32%	234
California City	Retail	4/24/2017	350	226	42%	311
California Domestic Water Company	Wholesale	Not Submitted	N/A	N/A	N/A	N/A
California Water Service Company Antelope Valley	Retail	6/16/2016	317	142	60%	282
California Water Service Company Bakersfield	Retail	6/27/2016	267	176	40%	237
California Water Service Company Bear Gulch	Retail	6/27/2016	210	155	34%	187
California Water Service Company Chico District	Retail	6/27/2016	263	159	45%	234
California Water Service Company Dixon, City of	Retail	6/27/2016	165	104	39%	161
California Water Service Company Dominguez	Retail	6/27/2016	194	176	19%	173
California Water Service Company East Los Angeles	Retail	6/27/2016	121	85	34%	115
California Water Service Company Hermosa/Redondo	Retail	6/27/2016	135	88	38%	128
California Water Service Company Kern River Valley	Retail	6/27/2016	192	110	46%	179
California Water Service Company King City	Retail	6/27/2016	139	87	44%	124

Water suppliers that submitted a 2015 UWMP

Water suppliers that did NOT submit a 2015 UWMP

Water suppliers that submitted a 2015 UWMP but were not required to do so

Urban Water Suppliers and 2015 UWMP Submittals						
Water Supplier Name	Purveyor Type	Submittal Date	2015 Target GPCD	2015 Actual GPCD	% Reduction Baseline to 2015	2020 Target GPCD
California Water Service Company Livermore	Retail	6/27/2016	178	111	43%	158
California Water Service Company Los Altos/Suburban	Retail	6/27/2016	208	133	43%	185
California Water Service Company Marysville	Retail	6/27/2016	226	128	49%	201
California Water Service Company Mid Peninsula	Retail	6/27/2016	129	85	37%	124
California Water Service Company Oroville	Retail	6/27/2016	294	197	40%	261
California Water Service Company Palos Verdes	Retail	6/27/2016	251	213	24%	223
California Water Service Company Redwood Valley	Retail	6/27/2016	161	81	51%	157
California Water Service Company Salinas District	Retail	6/27/2016	135	108	28%	120
California Water Service Company Selma	Retail	6/27/2016	245	142	48%	218
California Water Service Company South San Francisco	Retail	6/27/2016	137	103	31%	124
California Water Service Company Stockton	Retail	6/27/2016	174	116	37%	165
California Water Service Company Visalia	Retail	6/28/2016	223	160	35%	198
California Water Service Company Westlake	Retail	6/27/2016	420	289	38%	373
California Water Service Company Willow s	Retail	6/27/2016	226	131	48%	201
Calleguas Municipal Water District	Wholesale	6/22/2016	N/A	N/A	N/A	N/A
Camarillo City Of	Retail	11/3/2016	203	163	28%	180
Cambria Community Service District	Retail	12/22/2016	109	63	44%	105
Camrosa Water District	Retail	6/28/2016	324	241	26%	321
Carlsbad Municipal Water District	Retail	6/27/2016	233	145	44%	207
Carmichael Water District	Retail	6/28/2016	266	168	43%	237
Carpinteria Valley Water District	Retail	9/22/2016	122	122	4%	117
Casitas Municipal Water District	Wholesale	7/1/2016	N/A	N/A	N/A	N/A
Castaic Lake Water Agency	Wholesale	6/29/2016	N/A	N/A	N/A	N/A

Water suppliers that submitted a 2015 UWMP

Water suppliers that did NOT submit a 2015 UWMP

Water suppliers that submitted a 2015 UWMP but were not required to do so

Urban Water Suppliers and 2015 UWMP Submittals						
Water Supplier Name	Purveyor Type	Submittal Date	2015 Target GPCD	2015 Actual GPCD	% Reduction Baseline to 2015	2020 Target GPCD
Castaic Lake Water Agency Santa Clarita Water Division	Retail	6/29/2016	226	158	37%	201
Central Basin Municipal Water District	Wholesale	7/1/2016	N/A	N/A	N/A	N/A
Central Coast Water Authority	Wholesale	6/30/2016	N/A	N/A	N/A	N/A
Ceres City Of	Retail	7/1/2016	202	123	45%	180
Cerritos City Of	Retail	7/12/2016	153	139	15%	142
Chino Basin Desalter Authority	Wholesale	6/22/2016	N/A	N/A	N/A	N/A
Chino City Of	Retail	11/18/2016	213	157	33%	189
Chino Hills City Of	Retail	7/20/2016	195	164	24%	173
Chowchilla, City of Water Department	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Citrus Heights Water District	Retail	6/22/2016	257	137	52%	229
Cloverdale City of	Retail	6/23/2016	156	107	38%	139
Clovis City Of	Retail	7/27/2016	224	165	34%	199
Coachella City Of	Retail	8/23/2016	204	142	32%	199
Coachella Valley Water District	Retail	7/1/2016	540	383	37%	473
Coalinga City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Coastside County Water District	Retail	9/27/2016	136	109	26%	124
Colton City Of	Retail	7/1/2016	230	175	32%	205
Compton City Of	Retail	8/23/2016	87	67	24%	84
Contra Costa Water District	Retail & Wholesale	6/29/2016	167	114	38%	148
Corcoran City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Corona City Of	Retail	7/8/2016	238	165	37%	213
Covina City Of	Retail	3/1/2017	191	163	23%	170
Covina Irrigating Company	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Crescent City	Retail	6/24/2016	131	97	33%	116
Crescenta Valley Community Water District	Retail	6/15/2016	151	101	37%	142
Crestline Village Water District	Retail	7/22/2016	98	72	29%	95
Cucamonga Valley Water District	Retail	6/30/2016	261	184	36%	232
Daly City	Retail	6/20/2016	76	57	28%	74
Davis City Of	Retail	6/13/2016	194	119	45%	172
Del Oro Water Company	Retail	7/1/2016	146	87	46%	130
Delano City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Desert Water Agency	Retail	6/29/2016	387	270	37%	344

Water suppliers that submitted a 2015 UWMP

Water suppliers that did NOT submit a 2015 UWMP

Water suppliers that submitted a 2015 UWMP but were not required to do so

Urban Water Suppliers and 2015 UWMP Submittals						
Water Supplier Name	Purveyor Type	Submittal Date	2015 Target GPCD	2015 Actual GPCD	% Reduction Baseline to 2015	2020 Target GPCD
Diablo Water District	Retail	6/27/2016	170	117	34%	163
Dinuba City Of	Retail	6/17/2016	200	180	19%	179
Discovery Bay Community Services District	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Dow ney City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Dublin San Ramon Services District	Retail	6/13/2016	190	81	61%	169
East Bay Municipal Utility District	Retail	6/30/2016	159	106	35%	153
East Niles Community Services District	Retail	6/27/2016	350	189	51%	311
East Orange County Water District	Retail & Wholesale	8/19/2016	262	207	29%	232
East Palo Alto City Of	Retail	6/29/2016	82	64	21%	82
East Valley Water District	Retail	7/1/2016	195	145	33%	175
Eastern Municipal Water District	Retail & Wholesale	6/30/2016	187	129	35%	176
El Centro City Of	Retail	6/29/2016	200	142	29%	198
El Dorado Irrigation District	Retail	7/1/2016	271	187	38%	241
El Monte City Of	Retail	4/12/2017	137	83	24%	134
El Segundo City Of	Retail	9/6/2016	462	421	18%	411
El Toro Water District	Retail	6/20/2016	183	158	22%	163
Elk Grove Water District	Retail	6/30/2016	215	111	54%	191
Elsinore Valley Municipal Water District	Retail	6/29/2016	213	128	46%	189
Escondido City Of	Retail	6/28/2016	204	142	38%	182
Estero Municipal Improvement District	Retail	6/27/2016	158	110	37%	140
Eureka City Of	Retail	7/25/2016	122	107	21%	108
Exeter City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Fair Oaks Water District	Retail	6/20/2016	314	207	41%	279
Fairfield City Of	Retail	6/30/2016	204	153	32%	181
Fallbrook Public Utilities District	Retail	6/30/2016	421	272	42%	374
Fillmore City Of	Retail	1/12/2017	152	115	29%	142
Folsom City Of	Retail	6/29/2016	396	261	41%	352
Foothill Municipal Water District	Wholesale	6/21/2016	N/A	N/A	N/A	N/A
Fortuna City Of	Retail	6/29/2016	118	89	32%	105
Fountain Valley City Of	Retail	6/17/2016	157	122	29%	142
Fresno City Of	Retail	6/30/2016	278	190	39%	247
Fruitridge Vista Water Company	Retail	9/15/2016	134	117	16%	127
Fullerton City Of	Retail	6/27/2016	201	146	34%	179

Water suppliers that submitted a 2015 UWMP

Water suppliers that did NOT submit a 2015 UWMP

Water suppliers that submitted a 2015 UWMP but were not required to do so



Urban Water Suppliers and 2015 UWMP Submittals						
Water Supplier Name	Purveyor Type	Submittal Date	2015 Target GPCD	2015 Actual GPCD	%Reduction Baseline to 2015	2020 Target GPCD
Galt City Of	Retail	8/3/2016	199	158	29%	177
Garden Grove City Of	Retail	6/27/2016	153	102	37%	142
Georgetown Divide Public Utility District	Retail	6/24/2016	185	152	25%	167
Gilroy City Of	Retail	8/11/2016	149	113	32%	133
Glendale City Of	Retail	6/24/2016	140	104	28%	137
Glendora City Of	Retail	7/1/2016	245	222	18%	218
Golden Hills Community Services District	Retail	6/29/2016	144	105	29%	141
Golden State Water Company - Artesia	Retail	8/15/2016	119	89	27%	117
Golden State Water Company - Barstow	Retail	6/30/2016	265	148	50%	236
Golden State Water Company - Bay Point	Retail	6/30/2016	120	66	46%	117
Golden State Water Company - Bell-Bell Gardens	Retail	8/15/2016	97	71	29%	95
Golden State Water Company - Claremont	Retail	10/19/2016	298	192	42%	265
Golden State Water Company - Cordova	Retail	6/30/2016	360	235	41%	320
Golden State Water Company - Culver City	Retail	7/5/2016	154	121	27%	142
Golden State Water Company - Florence Graham	Retail	8/15/2016	84	64	24%	83
Golden State Water Company - Norwalk	Retail	8/15/2016	113	83	29%	108
Golden State Water Company - Orcutt	Retail	8/23/2016	234	157	40%	208
Golden State Water Company - Placentia	Retail	9/30/2016	150	105	33%	142
Golden State Water Company - San Dimas	Retail	10/13/2016	216	156	35%	192
Golden State Water Company - Simi Valley	Retail	8/23/2016	156	105	38%	142
Golden State Water Company - South Arcadia	Retail	10/25/2016	137	95	33%	134
Golden State Water Company - South San Gabriel	Retail	10/13/2016	112	77	35%	106
Golden State Water Company - Southwest	Retail	9/30/2016	124	87	32%	121
Golden State Water Company - West Orange	Retail	10/13/2016	147	107	30%	141
Goleta Water District	Retail	6/22/2017	119	88	31%	111
Great Oaks Water Company Incorporated	Retail	6/29/2016	112	80	37%	98
Greenfield City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Groveland Community Services District	Retail	1/9/2017	120	104	22%	107

Water suppliers that submitted a 2015 UWMP

Water suppliers that did NOT submit a 2015 UWMP

Water suppliers that submitted a 2015 UWMP but were not required to do so

Urban Water Suppliers and 2015 UWMP Submittals						
Water Supplier Name	Purveyor Type	Submittal Date	2015 Target GPCD	2015 Actual GPCD	% Reduction Baseline to 2015	2020 Target GPCD
Grover Beach City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Hanford City Of	Retail	6/29/2016	197	188	13%	179
Hawthorne City Of	Retail	6/27/2016	99	54	45%	99
Hayward City Of	Retail	6/24/2016	128	89	32%	124
Healdsburg City Of	Retail	7/6/2016	183	121	40%	162
Helix Water District	Retail	5/31/2016	128	103	28%	114
Hemet City Of	Retail	6/24/2016	158	105	41%	139
Hesperia Water District	Retail	7/1/2016	186	123	41%	165
Hi Desert Water District	Retail	7/29/2016	130	103	22%	128
Hillsborough Town Of	Retail	7/25/2016	301	231	31%	267
Hollister City Of	Retail	9/8/2016	134	119	21%	119
Humboldt Bay Municipal Water District	Wholesale	6/22/2016	N/A	N/A	N/A	N/A
Humboldt Community Services District	Retail	6/23/2016	127	89	37%	113
Huntington Beach City Of	Retail	7/12/2016	152	106	34%	142
Huntington Park City Of	Retail	8/17/2016	76	61	21%	76
Imperial City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Indian Wells Valley Water District	Retail	6/20/2016	239	164	38%	214
Indio City Of	Retail	7/1/2016	295	214	35%	262
Inglewood City Of	Retail	10/13/2016	117	92	24%	112
Inland Empire Utilities Agency	Wholesale	6/29/2016	N/A	N/A	N/A	N/A
Irvine Ranch Water District	Retail	6/30/2016	192	129	40%	171
Joshua Basin Water District	Retail	6/23/2016	166	125	28%	157
Jurupa Community Service District	Retail	6/29/2016	234	168	35%	208
Kerman City Of	Retail	6/12/2017	228	172	32%	203
Kern County Water Agency Improvement District No 4	Wholesale	6/24/2016	N/A	N/A	N/A	N/A
Kingsburg City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
La Habra City Of	Retail	6/14/2016	151	138	14%	142
La Palma City Of	Retail	6/30/2016	149	91	42%	140
La Verne City Of	Retail	6/30/2016	238	189	29%	211
Laguna Beach County Water District	Retail	6/22/2016	182	169	17%	162
Lake Arrowhead Community Services District	Retail	6/29/2016	206	115	50%	183
Lake Hemet Municipal Water District	Retail	10/26/2016	155	122	27%	142

Water suppliers that submitted a 2015 UWMP

Water suppliers that did NOT submit a 2015 UWMP

Water suppliers that submitted a 2015 UWMP but were not required to do so

Urban Water Suppliers and 2015 UWMP Submittals						
Water Supplier Name	Purveyor Type	Submittal Date	2015 Target GPCD	2015 Actual GPCD	% Reduction Baseline to 2015	2020 Target GPCD
Lakeside Water District	Retail	6/28/2016	152	107	31%	148
Lakewood City Of	Retail	6/30/2016	103	82	23%	99
Lamont Public Utility District	Retail	7/1/2016	221	153	37%	196
Las Virgenes Municipal Water District	Retail	6/21/2016	280	224	28%	249
Lathrop City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Lemoore City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Liberty Utilities (Park Water) Corp	Retail	6/28/2016	99	68	32%	99
Lincoln Avenue Water Company	Retail	6/29/2016	217	149	38%	145
Lincoln City Of	Retail	8/12/2016	163	122	33%	193
Linda County Water District	Retail	1/27/2017	194	138	36%	172
Livermore City Of	Retail	6/20/2016	216	141	41%	192
Livingston City Of	Retail	10/31/2016	186	139	33%	165
Lodi City Of	Retail	6/22/2016	225	200	20%	200
Loma Linda City Of	Retail	7/1/2016	218	179	26%	194
Lomita City Of	Retail	6/24/2016	122	92	27%	118
Lompoc City Of	Retail	6/29/2016	122	90	30%	117
Long Beach City Of	Retail	6/9/2016	121	102	24%	107
Los Angeles City Department Of Water And Power	Retail	6/28/2016	148	114	26%	142
Los Angeles County Waterworks District 29 - Malibu & Marina Del Rey	Retail	2/23/2017	267	244	18%	237
Los Angeles County Waterworks District 40 - Antelope Valley	Retail	2/23/2017	253	165	41%	225
Los Banos City Of	Retail	8/3/2016	188	160	24%	165
Lynwood City Of	Retail	6/30/2016	95	80	20%	90
Madera City Of	Retail	5/26/2017	220	128	48%	196
Mammoth Community Water District	Retail	1/30/2017	163	94	48%	145
Manhattan Beach City Of	Retail	2/16/2017	162	116	35%	144
Manteca City Of	Retail	10/5/2016	201	139	38%	179
Marin Municipal Water District	Retail	6/21/2016	137	110	27%	124
Marina Coast Water District	Retail	6/21/2016	126	89	34%	117
Martinez City Of	Retail	6/27/2016	146	110	32%	130
McKinleyville Community Services District	Retail	7/7/2016	102	74	35%	91
Menlo Park City Of	Retail	6/21/2016	229	158	38%	204

Water suppliers that submitted a 2015 UWMP

Water suppliers that did NOT submit a 2015 UWMP

Water suppliers that submitted a 2015 UWMP but were not required to do so

Urban Water Suppliers and 2015 UWMP Submittals						
Water Supplier Name	Purveyor Type	Submittal Date	2015 Target GPCD	2015 Actual GPCD	% Reduction Baseline to 2015	2020 Target GPCD
Merced City Of	Retail	6/14/2017	279	173	44%	248
Mesa Water District	Retail	6/29/2016	162	108	40%	144
Metropolitan Water District Of Southern California	Wholesale	5/24/2016	N/A	N/A	N/A	N/A
Mid-Peninsula Water District	Retail	6/30/2016	126	85	35%	121
Millbrae City Of	Retail	6/23/2016	120	89	28%	117
Milpitas City Of	Retail	6/27/2016	164	108	41%	146
Mission Springs Water District	Retail	7/1/2016	262	172	41%	235
Modesto City Of	Retail	7/1/2016	257	163	43%	228
Modesto Irrigation District	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Mojave Water Agency	Retail & Wholesale	6/29/2016	N/A	N/A	N/A	N/A
Monrovia City Of	Retail	7/1/2016	176	153	22%	156
Monte Vista Water District	Retail & Wholesale	6/29/2016	188	137	35%	167
Montebello Land And Water Company	Retail	6/30/2016	121	105	22%	107
Montecito Water District	Retail	5/23/2017	380	284	33%	338
Monterey Park City Of	Retail	8/23/2016	153	134	19%	142
Morgan Hill City Of	Retail	8/30/2016	179	123	38%	159
Morro Bay City Of	Retail	6/24/2016	122	95	25%	116
Moulton Niguel Water District	Retail	6/17/2016	194	141	35%	173
Mountain House Community Services District	Retail	6/7/2016	244	147	46%	217
Mountain View City Of	Retail	6/24/2016	163	105	42%	146
Municipal Water District Of Orange County (MWDOC)	Wholesale	6/30/2016	N/A	N/A	N/A	N/A
Myoma Dunes Mutual Water Company	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Napa City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Nevada Irrigation District	Retail	6/7/2016	222	141	43%	197
New hall County Water District	Retail	6/29/2016	214	156	35%	190
New man City of	Retail	7/1/2016	215	158	34%	191
New port Beach City Of	Retail	7/6/2016	228	176	30%	202
Nipomo Community Service District	Retail	6/27/2016	208	134	42%	185
Norco City Of	Retail	6/30/2016	296	246	25%	263
North Coast County Water District	Retail	6/27/2016	90	58	35%	90
North Marin Water District	Retail	6/28/2016	156	105	39%	139

Water suppliers that submitted a 2015 UWMP

Water suppliers that did NOT submit a 2015 UWMP

Water suppliers that submitted a 2015 UWMP but were not required to do so

Urban Water Suppliers and 2015 UWMP Submittals						
Water Supplier Name	Purveyor Type	Submittal Date	2015 Target GPCD	2015 Actual GPCD	% Reduction Baseline to 2015	2020 Target GPCD
North Of The River Municipal Water District	Wholesale	10/11/2016	N/A	N/A	N/A	N/A
North Tahoe Public Utilities District	Retail	6/20/2017	266	224	24%	237
Norwalk City Of	Retail	6/28/2017	103	103	0%	102
Oakdale City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Oceanside City Of	Retail	6/29/2016	154	116	32%	137
Oildale Mutual Water Company	Retail	10/11/2016	263	208	29%	234
Olivehurst Public Utilities District	Retail	5/24/2017	172	134	24%	167
Olivenhain Municipal Water District	Retail	6/22/2016	317	247	30%	282
Ontario City Of	Retail	7/1/2016	220	158	35%	196
Orange City Of	Retail	6/30/2016	203	155	31%	181
Orangevale Water Company	Retail	6/20/2016	271	176	41%	241
Orchard Dale Water District	Retail	8/12/2016	106	70	35%	104
Otay Water District	Retail	6/28/2016	172	124	35%	153
Oxnard City Of	Retail	7/1/2016	139	116	17%	140
Padre Dam Municipal Water District	Retail	6/30/2016	156	105	38%	142
Palmdale Water District	Retail	6/22/2016	208	128	44%	185
Palo Alto City Of	Retail	6/9/2016	203	142	37%	180
Paradise Irrigation District	Retail	6/24/2016	238	143	46%	212
Paramount City Of	Retail	7/27/2016	116	103	13%	114
Pasadena City Of	Retail	6/28/2016	190	148	30%	169
Paso Robles City Of	Retail	8/17/2016	217	151	38%	193
Patterson City Of	Retail	6/15/2016	167	135	20%	164
Petaluma City Of	Retail	6/15/2016	159	111	37%	141
Phelan Pinon Hills Community Services District	Retail	6/30/2016	182	128	37%	162
Pico Rivera City Of	Retail	7/1/2016	114	103	12%	111
Pico Water District	Retail	6/21/2016	146	108	28%	142
Pismo Beach City Of	Retail	6/29/2016	221	201	15%	204
Pittsburg City Of	Retail	6/17/2016	147	116	29%	131
Placer County Water Agency	Retail & Wholesale	6/15/2016	292	203	37%	261
Placerville City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Pleasanton City Of	Retail	6/27/2016	222	141	43%	197
Pomona City Of	Retail	7/6/2016	157	119	28%	148
Port Hueneme City Of	Retail	8/30/2016	114	77	35%	109
Port Hueneme Water Agency	Wholesale	8/30/2016	N/A	N/A	N/A	N/A

Water suppliers that submitted a 2015 UWMP

Water suppliers that did NOT submit a 2015 UWMP

Water suppliers that submitted a 2015 UWMP but were not required to do so

Urban Water Suppliers and 2015 UWMP Submittals						
Water Supplier Name	Purveyor Type	Submittal Date	2015 Target GPCD	2015 Actual GPCD	% Reduction Baseline to 2015	2020 Target GPCD
Porterville City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Poway City Of	Retail	6/22/2016	236	160	39%	210
Quartz Hill Water District	Retail	6/28/2016	337	227	38%	311
Rainbow Municipal Water District	Retail	7/1/2016	1352	883	41%	1202
Ramona Municipal Water District	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Rancho California Water District	Retail	6/10/2016	346	240	38%	307
Red Bluff City Of	Retail	2/7/2017	308	196	43%	274
Redding City Of	Retail	10/24/2016	252	209	25%	224
Redlands City Of	Retail	7/1/2016	320	234	34%	285
Redwood City	Retail	6/23/2016	131	91	34%	124
Reedley City Of	Retail	2/10/2017	242	139	48%	215
Rialto City Of	Retail	7/1/2016	192	144	33%	171
Rincon Del Diablo Municipal Water District	Retail	6/30/2016	256	187	34%	227
Rio Linda - Elverta Community Water District	Retail	6/28/2016	204	127	44%	181
Rio Vista City Of	Retail	6/29/2016	279	158	49%	248
Ripon City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Riverbank City Of	Retail	11/2/2016	182	147	26%	165
Riverside City Of	Retail	6/30/2016	239	180	32%	213
Riverside Highland Water Company	Retail	7/1/2016	216	165	31%	192
Rohnert Park City Of	Retail	7/1/2016	142	91	44%	123
Rosamond Community Service District	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Roseville City Of	Retail	5/25/2016	278	165	46%	247
Rowland Water District	Retail	6/27/2016	195	178	18%	174
Rubidoux Community Service District	Retail	8/17/2016	187	181	13%	166
Rubio Canyon Land And Water Association	Retail	6/27/2016	208	170	27%	185
Sacramento City Of	Retail & Wholesale	6/29/2016	253	158	44%	225
Sacramento County Water Agency	Retail & Wholesale	6/29/2016	265	153	48%	236
Sacramento Suburban Water District	Retail	6/30/2016	232	142	45%	206
San Antonio Water Company	Wholesale	6/30/2016	N/A	N/A	N/A	N/A
San Benito County Water District	Wholesale	9/8/2016	N/A	N/A	N/A	N/A
San Bernardino City Of	Retail	7/1/2016	228	159	37%	203
San Bernardino County Service Area 64 Spring Valley Lake	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted

Water suppliers that submitted a 2015 UWMP

Water suppliers that did NOT submit a 2015 UWMP

Water suppliers that submitted a 2015 UWMP but were not required to do so

Urban Water Suppliers and 2015 UWMP Submittals						
Water Supplier Name	Purveyor Type	Submittal Date	2015 Target GPCD	2015 Actual GPCD	% Reduction Baseline to 2015	2020 Target GPCD
San Bernardino County Service Area 70 J Oak Hills	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
San Bernardino Valley Municipal Water District	Wholesale	7/1/2016	N/A	N/A	N/A	N/A
San Bruno City Of	Retail	6/30/2016	96	71	28%	94
San Buenaventura City Of (Ventura)	Retail	6/28/2016	159	117	34%	142
San Clemente City Of	Retail	6/30/2016	172	157	18%	153
San Diego City Of	Retail & Wholesale	7/1/2016	157	123	28%	142
San Diego County Water Authority	Wholesale	6/28/2016	N/A	N/A	N/A	N/A
San Dieguito Water District	Retail	6/30/2016	170	152	20%	151
San Fernando City Of	Retail	6/30/2016	137	101	28%	134
San Francisco Public Utilities Commission	Retail & Wholesale	6/21/2016	102	81	24%	96
San Gabriel County Water District	Retail	6/30/2016	158	132	24%	142
San Gabriel Valley Municipal Water District	Wholesale	6/29/2016	N/A	N/A	N/A	N/A
San Gabriel Valley Water Company	Retail	7/1/2016	151	109	32%	142
San Gabriel Valley Water Company Fontana Division	Retail	7/1/2016	198	140	37%	176
San Geronimo Pass Water Agency	Wholesale	3/21/2017	N/A	N/A	N/A	N/A
San Jacinto City Of	Retail	6/2/2016	166	113	39%	147
San Jose City Of	Retail	7/1/2016	163	126	30%	145
San Jose Water Company	Retail	6/16/2016	140	96	38%	127
San Juan Capistrano City Of	Retail	9/8/2016	206	184	20%	183
San Juan Water District	Retail & Wholesale	6/27/2016	464	293	43%	413
San Lorenzo Valley Water District	Retail	12/2/2016	94	73	30%	84
San Luis Obispo City Of	Retail	6/30/2016	120	92	25%	117
San Luis Obispo County Flood Control And Water Conservation	Wholesale	6/28/2016	N/A	N/A	N/A	N/A
Sanger City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Santa Ana City Of	Retail	7/6/2016	123	82	37%	116
Santa Barbara City Of	Retail	6/30/2016	123	102	21%	117
Santa Clara City Of	Retail	12/13/2016	210	127	46%	186
Santa Clara Valley Water District	Wholesale	6/20/2016	N/A	N/A	N/A	N/A
Santa Cruz City Of	Retail	9/14/2016	111	70	38%	110

Water suppliers that submitted a 2015 UWMP

Water suppliers that did NOT submit a 2015 UWMP

Water suppliers that submitted a 2015 UWMP but were not required to do so



Urban Water Suppliers and 2015 UWMP Submittals						
Water Supplier Name	Purveyor Type	Submittal Date	2015 Target GPCD	2015 Actual GPCD	% Reduction Baseline to 2015	2020 Target GPCD
Santa Fe Irrigation District	Retail	6/2/2016	574	488	23%	510
Santa Fe Springs City Of	Retail	7/6/2017	118	84	29%	119
Santa Margarita Water District	Retail	6/27/2016	189	153	27%	169
Santa Maria City Of	Retail	5/23/2016	133	108	27%	118
Santa Monica City Of	Retail	6/22/2016	139	113	27%	123
Santa Paula City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Santa Rosa City Of	Retail	6/22/2016	136	85	41%	126
Scotts Valley Water District	Retail	6/30/2016	162	94	48%	144
Seal Beach City Of	Retail	6/30/2016	149	110	29%	142
Serrano Water District	Wholesale	6/22/2016	N/A	N/A	N/A	N/A
Shafter City Of	Retail	7/1/2016	251	197	30%	223
Shasta Lake City Of	Retail	8/26/2016	241	150	44%	215
Sierra Madre City Of	Retail	6/28/2016	232	170	34%	206
Solano County Water Agency	Retail & Wholesale	12/12/2016	N/A	N/A	N/A	N/A
Soledad City Of	Retail	7/12/2016	135	107	31%	117
Sonoma City Of	Retail	6/24/2016	202	141	37%	180
Sonoma County Water Agency	Wholesale	6/29/2016	N/A	N/A	N/A	N/A
Soquel Creek Water District	Retail	6/29/2016	120	69	46%	113
South Coast Water District	Retail	6/30/2016	169	151	20%	150
South Feather Water and Power	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
South Gate City Of	Retail	6/30/2016	101	81	20%	100
South Pasadena City Of	Retail	7/26/2016	169	144	23%	150
South San Joaquin Irrigation District	Wholesale	7/11/2016	N/A	N/A	N/A	N/A
South Tahoe Public Utility District	Retail	6/22/2016	199	160	26%	181
Stallion Springs Community Services District	Retail	7/1/2016	168	135	23%	160
Stockton City Of	Retail	8/12/2016	172	130	27%	165
Stockton East Water District	Wholesale	6/30/2016	N/A	N/A	N/A	N/A
Suburban Water Systems - San Jose Hills	Retail	6/29/2016	155	119	29%	142
Suburban Water Systems - Whittier/La Mirada	Retail	6/29/2016	170	136	28%	151
Suisun - Solano Water Authority	Retail	8/18/2016	138	100	35%	124
Sunny Slope Water Company	Retail	6/30/2016	142	94	36%	138

Water suppliers that submitted a 2015 UWMP

Water suppliers that did NOT submit a 2015 UWMP

Water suppliers that submitted a 2015 UWMP but were not required to do so



Urban Water Suppliers and 2015 UWMP Submittals						
Water Supplier Name	Purveyor Type	Submittal Date	2015 Target GPCD	2015 Actual GPCD	% Reduction Baseline to 2015	2020 Target GPCD
Sunnyslope Community Water District	Retail	9/8/2016	161	92	48%	143
Sunnyvale City Of	Retail	7/15/2016	154	94	45%	139
Susanville City Of	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Sweetwater Authority	Retail	6/27/2016	120	91	27%	116
Sweetwater Springs Water District	Retail	11/2/2016	102	76	33%	91
Tahoe City Public Utilities District	Retail	7/1/2016	276	148	52%	245
Tehachapi - Cummings County Water District	Wholesale	6/30/2016	N/A	N/A	N/A	N/A
Tehachapi City Of	Retail	7/12/2016	215	176	26%	191
Temescal Valley Water District	Retail	Not Submitted	Not Submitted	Not Submitted	Not Submitted	Not Submitted
Thousand Oaks City Of	Retail	6/30/2016	210	156	33%	187
Three Valleys Municipal Utility District	Wholesale	5/26/2016	N/A	N/A	N/A	N/A
Torrance City Of	Retail	7/27/2016	150	121	23%	142
Trabuco Canyon Water District	Retail	6/29/2016	233	204	24%	200
Tracy City Of	Retail	6/15/2016	204	146	35%	181
Triunfo Sanitation District/Oak Park Water Service	Retail	3/30/2017	206	158	31%	183
Truckee - Donner Public Utilities District	Retail	6/30/2016	367	234	43%	326
Tulare City Of	Retail	3/31/2016	273	256	16%	242
Tuolumne Utilities District	Retail	6/30/2016	171	106	40%	165
Turlock City Of	Retail	6/27/2016	320	215	40%	284
Tustin City Of	Retail	6/29/2016	170	122	35%	151
Twentynine Palms Water District	Retail	1/31/2017	170	143	20%	163
Ukiah City Of	Retail	6/16/2016	209	141	40%	186
United Water Conservation District	Wholesale	6/28/2016	N/A	N/A	N/A	N/A
Upland City Of	Retail	6/30/2016	247	214	22%	220
Upper San Gabriel Valley Municipal Water	Wholesale	6/17/2016	N/A	N/A	N/A	N/A
Vacaville City Of	Retail	7/15/2016	176	132	30%	164
Valencia Water Company	Retail	6/29/2016	300	211	37%	267
Vallecitos Water District	Retail	6/27/2016	179	117	41%	159
Vallejo City Of	Retail	11/23/2016	140	114	27%	124
Valley Center Municipal Water District	Retail	7/1/2016	1592	911	48%	1415
Valley County Water District	Retail	6/20/2016	150	115	28%	142
Valley Of The Moon Water District	Retail	6/15/2016	133	95	33%	124

Water suppliers that submitted a 2015 UWMP

Water suppliers that did NOT submit a 2015 UWMP

Water suppliers that submitted a 2015 UWMP but were not required to do so

Urban Water Suppliers and 2015 UWMP Submittals							
Water Supplier Name	Purveyor Type	Submittal Date	2015 Target GPCD	2015 Actual GPCD	% Reduction Baseline to 2015	2020 Target GPCD	
Valley Water Company	Retail	6/23/2016	319	270	24%	284	Water suppliers that submitted a 2015 UWMP
Vaughn Water Company	Retail	7/1/2016	343	273	28%	307	
Ventura County Waterworks District No 01 - Moorpark	Retail	6/29/2016	219	178	27%	194	
Ventura County Waterworks District No 08 - Simi Valley	Retail	4/10/2017	219	168	31%	195	
Vernon City Of	Retail	6/24/2016	95053	61117	39%	89809	Water suppliers that did NOT submit a 2015 UWMP
Victorville Water District	Retail	6/30/2016	227	144	43%	202	
Vista Irrigation District	Retail	7/20/2016	158	125	29%	142	
Walnut Valley Water District	Retail	6/30/2016	190	144	32%	169	
Wasco City Of	Retail	5/3/2017	220	144	41%	195	Water suppliers that submitted a 2015 UWMP but were not required to do so
Water Facilities Authority	Wholesale	6/29/2016	N/A	N/A	N/A	N/A	
Watsonville City Of	Retail	6/22/2016	98	81	20%	95	
West Basin Municipal Water District	Wholesale	6/30/2016	N/A	N/A	N/A	N/A	
West Kern Water District	Retail	6/30/2016	213	175	26%	189	
West Sacramento City Of	Retail	10/24/2016	264	183	38%	234	
West Valley Water District	Retail	7/1/2016	259	190	33%	232	
Westborough Water District	Retail	6/22/2016	86	66	21%	88	
Western Municipal Water District Of Riverside	Retail & Wholesale	6/24/2016	391	203	53%	352	
Westminister City Of	Retail	6/29/2016	137	93	35%	130	
Whittier City Of	Retail	6/30/2016	144	124	20%	134	
Windsor Town Of	Retail	6/30/2016	144	101	36%	130	
Woodland City Of	Retail	6/17/2016	261	134	54%	232	
Woodland-Davis Clean Water Agency	Wholesale	2/16/2017	N/A	N/A	N/A	N/A	
Yorba Linda Water District	Retail	6/16/2016	266	201	32%	237	
Yreka City Of	Retail	12/6/2016	288	225	30%	256	
Yuba City	Retail	7/1/2016	216	163	32%	192	
Yucaipa Valley Water District	Retail	7/1/2016	248	194	30%	220	

## Appendix B: Regional Urban Water Management Plans

<b>Regional UWMP Submittals</b>	
<b>Regional UWMP Name</b>	<b>Participating Agencies</b>
Castaic Lake Water Agency	
	Castaic Lake Water Agency
	Castaic Lake Water Agency Santa Clarita Water Division
	Newhall County Water District
	Valencia Water Company
Hollister Urban Area Urban Water Management Plan	
	Hollister City Of
	San Benito County Water District
	Sunnyslope Community Water District
Inland Empire Utilities Agency	
	Inland Empire Utilities Agency
	Water Facilities Authority
San Bernardino Valley Municipal Water District	
	Colton City Of
	East Valley Water District
	Loma Linda City Of
	Redlands City Of
	Rialto City Of
	Riverside Highland Water Company
	San Bernardino City Of
	San Bernardino Valley Municipal Water District
	West Valley Water District
	Yucaipa Valley Water District
Tehachapi Regional Plan	
	Golden Hills Community Services District
	Stallion Springs Community Services District
	Tehachapi City Of

## Appendix C: Regional 20x2020 Alliances

<b>Regional Alliance Submittals</b>	
<b>Regional Alliance Name</b>	<b>Participating Agencies</b>
<b>Contra Costa Water District Alliance</b>	
	Antioch City Of
	Contra Costa Water District
	Diablo Water District
	Golden State Water Company - Bay Point
	Martinez City Of
	Pittsburg City Of
<b>Gateway Regional Alliance</b>	
	Bell Gardens, City of
	Bellflower-Somerset Mutual Water Company
	Downey City of
	Lakewood City of
	Long Beach City of
	Lynwood City of
	Norwalk City of
	Paramount City of
	Pico Rivera City of
	Pico Water District
	Santa Fe Springs City of
	Signal Hill, City of
	South Gate City of
	Vernon City of
	Whittier City of
<b>Hollister Urban Area Alliance</b>	
	Hollister City Of
	San Benito County Water District
	Sunnyslope Community Water District
<b>Inland Empire Regional Alliance</b>	
	Chino City of
	Chino Hills City of
	Cucamonga Valley Water District
	Fontana Water Company
	Inland Empire Utilities Agency
	Monte Vista Water District
	Ontario City of
	San Antonio Water Company
	Upland City of

<b>Regional Alliance Submittals</b>	
<b>Regional Alliance Name</b>	<b>Participating Agencies</b>
<b>North Marin-Sonoma Alliance</b>	
	Cotati City of
	Marin Municipal Water District
	North Marin Water District
	Petaluma City Of
	Rohnert Park City Of
	Santa Rosa City Of
	Sonoma City Of
	Valley Of The Moon Water District
	Windsor Town Of
<b>Olivenhain Regional Alliance</b>	
	Olivenhain Municipal Water District
	Rincon Del Diablo Municipal Water District
	San Dieguito Water District
	Vallecitos Water District
<b>Orange County 20x2020 Regional Alliance</b>	
	Anaheim City Of
	Brea City Of
	Buena Park City Of
	East Orange County Water District
	El Toro Water District
	Fountain Valley City Of
	Fullerton City Of
	Garden Grove City Of
	Golden State Water Company - Placentia
	Huntington Beach City Of
	Irvine Ranch Water District
	La Habra City Of
	La Palma City Of
	Laguna Beach County Water District
	Mesa Water District
	Moulton Niguel Water District
	Newport Beach City Of
	Orange City Of
	San Clemente City Of
	San Juan Capistrano City Of
	Santa Ana City Of
	Santa Margarita Water District
	Seal Beach City Of
	Serrano Water District
	South Coast Water District
	Trabuco Canyon Water District
	Tustin City Of
	Westminister City Of
	Yorba Linda Water District

<b>Regional Alliance Submittals</b>	
<b>Regional Alliance Name</b>	<b>Participating Agencies</b>
<b>Tehachapi Regional Alliance</b>	
	Bear Valley Community Services District
	Golden Hills Community Services District
	Stallion Springs Community Services District
	Tehachapi City Of
	Tehachapi - Cummings County Water District
<b>West Basin Municipal Water District Regional Alliance</b>	
	El Segundo City of
	Hawthorne City of
	Inglewood City of
	Lomita City of
	Los Angeles County Public Works Waterworks District 29
	Manhattan Beach City of
	West Basin Municipal Water District