

5 SB7 Baselines and Target Compliance

CW 10608.20(a)

(1) Each urban retail water supplier shall develop urban water use targets and an interim urban water use target by July 1, 2011.

(2) It is the intent of the Legislature that the urban water use targets described in paragraph (1) cumulatively result in a 20-percent reduction from the baseline daily per capita water use by December 31, 2020.

This section presents the methods and results of calculating VWD's baseline water use and targets for 2020 as required by the Water Conservation Act of 2009 (also referred to as SB7). A description of compliance with the 2020 target is also provided. VWD has completed the DWR required SBX7-7 tables to confirm compliance; those tables are included in Appendix C.

On November 10, 2009, California Governor Arnold Schwarzenegger signed into law a comprehensive water package made up of four bills, including SB7. SB7 mandates conservation targets for all urban retail water entities supplying potable municipal water to more than 3,000 end users or delivering more than 3,000 AF of potable water per year to end users. The conservation targets of 20 percent by 2020 on a gpcd water use basis must be complied with to be eligible for state water grants and loans. VWD is not subject to agricultural-related provisions of SB7 as VWD supplies agricultural water to less than 10,000 acres.

This section includes analysis for VWD's baselines and targets, as well as Regional Alliance targets to meet SB7 mandates for 2020. Section 2.55 of the CWC allows agencies to form a Regional Alliance and establish a regional target to satisfy SB7. The Regional Alliance includes three additional water agencies: OMWD, SDWD, and Rincon MWD. A "Cooperative Agreement to Establish and Carry Out a Regional Alliance in Accordance with Part 2.55 of the California Water Code" is attached in Appendix B.

5.1 Baselines and Targets

SB7 required water agencies to reduce 2010 per capita water use by 20 percent by the year 2020, which is commonly referred to within the water industry as 20x2020. In the 2010 UWMP, VWD developed a per capita water use baseline, and established water use targets for 2015 and 2020. For the 2020 UWMP, VWD is required to compare 2020 per capita water use with targets recalculated in the 2015 UWMP.

CWC §10608.12 states that urban retail water suppliers that used less than 10 percent recycled water in 2008 must utilize a 10-year baseline period for measuring its SB7 compliance that ends no earlier than December 31, 2004 and no later than December 31, 2010. Because VWD did not use recycled water within its service area in 2008, it utilized a 10-year baseline period between calendar years 1999 and 2008, which provided for the highest average baseline water usage by VWD customers and resulted in a 10-year baseline water use of 199.2 gpcd.

CWC §10608.12(b) also required that urban retail water suppliers calculate water use on a per-capita basis for a 5-year baseline period that ends no earlier than December 31,

2007 and no later than December 31, 2010. This 5-year period confirms that the selected 2020 compliance target meets the intent of CWC §10608.22, which states that an urban retail water supplier’s per capita daily water use reduction shall be no less than 5 percent of base daily per capita water use. The 5-year baseline period range utilized by VWD was between 2004 and 2008 and resulted in a 5-year baseline water use of 198 gpcd.

DWR had established four technical methodologies for water suppliers to use in determining their SB7 water use targets. VWD chose Method 1 (80 percent of the baseline per capita water usage) and calculated the baseline and target consistent with guidance provided by DWR, which was 159.4 gpcd.

Table 5-1. Baseline and Target Summary

Baseline Period	Start Year	End Year	Average Baseline*	Confirmed 2020 Target*
10-15 Year	1999	2008	199	159
5 Year	2004	2008	198	

Note:

*All values are in gpcd.

5.2 2020 Compliance Daily Per Capita Water Use

VWD’s 2015 UWMP showed the per capita water use of 117 gpcd, which meets the 2015 interim target of 179 gpcd. VWD’s 2020 average per capita water use is 125 gpcd and is also within their 2020 target of 159 gpcd (Table 5-2).

Table 5-2. 2020 Compliance

Actual 2020*	Total Adjustments*	Adjusted 2020*	2020 Confirmed Target*	Did Supplier Achieve Targeted Reduction for 2020? Y/N
125	0	125	159	Yes

Note:

*All values are in gpcd

5.3 Regional Alliance Target

Urban retail water suppliers are eligible to form a regional alliance in accordance with CWC §10608.28(a) if the suppliers meet at least one of several specified criteria, such as (1) the suppliers are recipients of water from a common wholesale water supplier, or (2) the suppliers are located within the same hydrologic region, which for purposes of a regional alliance refers to the 10 hydrologic regions as shown in the California Water Plan.

VWD has formed a regional alliance with OMWD, SDWD, and Rincon MWD pursuant to CWC Section 10608.28(a) to cooperatively determine and report progress toward achieving their water use targets on a regional basis. All of these agencies are recipients of water from a common wholesale water supplier, in this case the SDCWA, and all of the

members are located within the South Coast Hydrologic Region as shown in the California Water Plan. Figure 5-1 illustrates the service areas of these agencies.

These agencies have entered into a cooperative agreement to establish and carry out a regional alliance, and they have jointly notified DWR of the formation of their regional alliance (this agreement is included in Appendix B). Furthermore, each member of the regional alliance has developed its own urban water use target for the year 2020 and documented compliance with the 2020 water use target, along with other supporting data and determinations, all of which is included in each member’s individual UWMP.

The Regional Alliance urban water use target was created using Option 1, which is based on the weighted average, by population, of the Regional Alliance agencies’ individual urban water use and interim urban water use targets. The Regional Alliance had a weighted 10-year baseline water demand of 253 gpcd.

To obtain the Regional Alliance weighted average 2020 target demand, the same weighted averaging approach was utilized, this time using the individual agencies’ 2020 target water demands. The Regional Alliance has a weighted 2020 demand target of 204 gpcd.

Actual 2020 water demands for the Regional Alliance agencies and the weighted average actual demand are shown below.

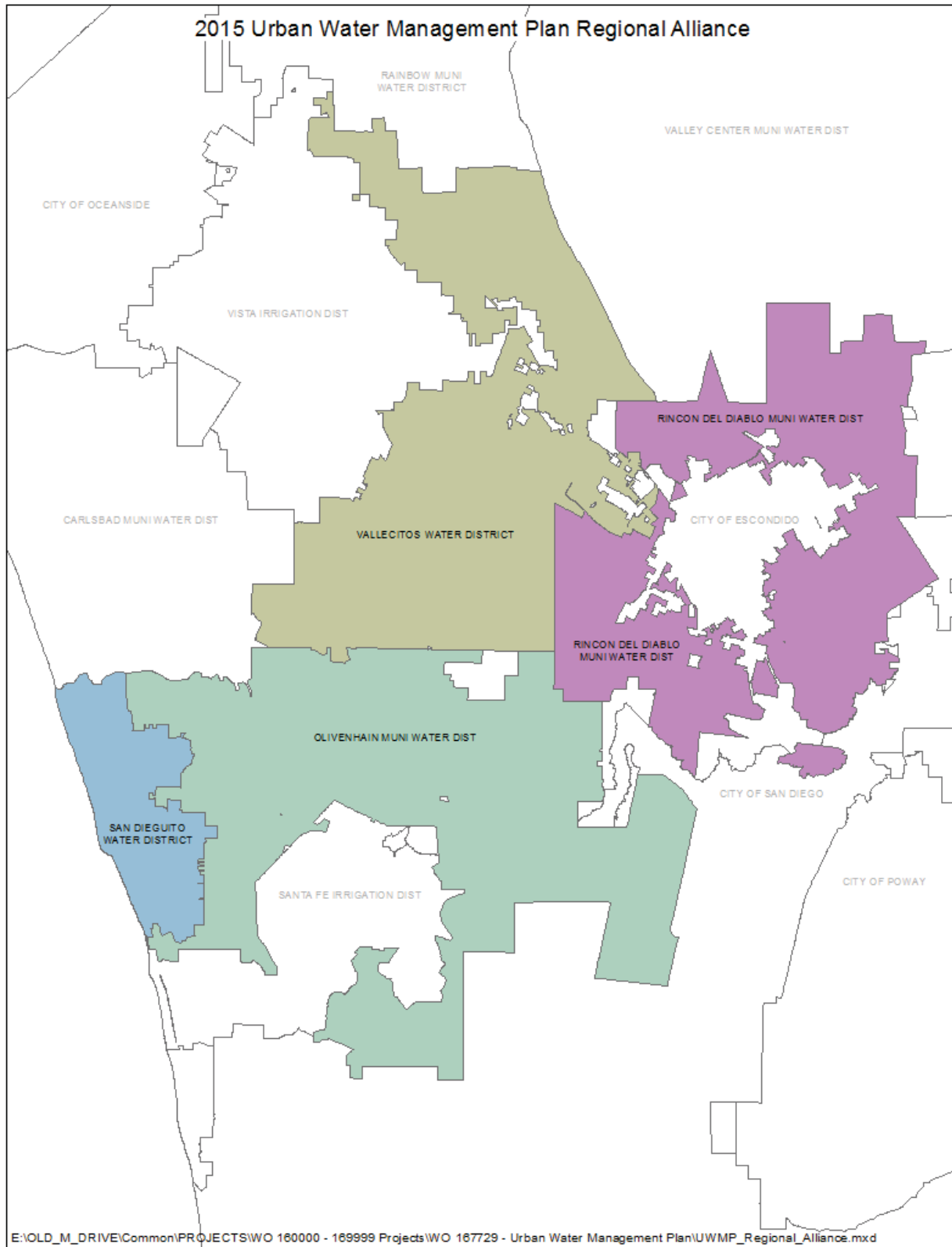
Table 5-3. SB7 Regional Alliance – 2020 gpcd (Actual)

Participating Member Agency Name	2020 Actual gpcd ¹	2020 Population	(2020 gpcd) x (2020 Population)	Regional Alliance 2020 gpcd (Actual)
OMWD	206	72,179	14,868,874	
Rincon MWD	135	32,019	4,322,565	
San Diequito WD	129	37,856	4,883,424	
VWD	125	105,741	13,217,625	
Regional Alliance Totals	595	247,795	37,292,488	150

Note:

1 All participating agencies must submit individual SB7 tables, as applicable, showing the individual agency’s calculation. These tables are SB7 Tables 0 through 6, Table 7, any required supporting tables (as stated in SB7 Table 7), and SB7 Table 9, as applicable. These individual agency tables will be submitted with the individual or Regional Urban Water Management Plan.

Figure 5-1. Regional Alliance Agencies



The Regional Alliance did not make an economic adjustment to its 2020 actual water demands. The summary of results included on Table 5-4 show that the Regional Alliance is in compliance with the 2020 demand target.

Table 5-4. SB7 Regional Alliance – 2020 Compliance

2020 Actual gpcd	Optional Adjustment for Economic Growth ¹	Adjusted 2020 Actual gpcd	2020 Target gpcd ²	Did Alliance Achieve Targeted Reduction for 2020?
150	0	150	204	Yes

Notes:

- 1 Adjustments for economic growth can be applied to either the individual supplier’s data or to the aggregate regional alliance data (but not both), depending on availability of suitable data and methods.
- 2 2020 Target gpcd will be taken from the Regional Alliance’s SB7 Verification Form, Weighted Target Table.



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