

FINAL

**Los Angeles Gateway Region
Integrated Regional Water
Management Joint Powers
Authority**



**SUMMARY OF
“BASELINE AND
COMPLIANCE URBAN PER
CAPITA WATER USE”
DETERMINATION**

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BASELINE AND COMPLIANCE URBAN PER CAPITA WATER USE

California Water Code Section 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. Urban retail water suppliers may elect to determine and report progress toward achieving these targets on an individual or regional basis, as provided in subdivision (a) of Section 10608.28, and may determine the targets on a fiscal year or calendar year basis.

California Water Code Section 10608.28

(a) An urban retail water supplier may meet its urban water use target within its retail service area, or through mutual agreement, by any of the following:

- (1) Through an urban wholesale water supplier.*
- (2) Through a regional agency authorized to plan and implement water conservation, including, but not limited to, an agency established under the Bay Area Water Supply and Conservation Agency Act (Division 31 (commencing with Section 81300)).*
- (3) Through a regional water management group as defined in Section 10537.*
- (4) By an integrated regional water management funding area.*
- (5) By hydrologic region.*
- (6) Through other appropriate geographic scales for which computation methods have been developed by the department.*

(b) A regional water management group, with the written consent of its member agencies, may undertake any or all planning, reporting, and implementation functions under this chapter for the member agencies that consent to those activities. Any data or reports shall provide information both for the regional water management group and separately for each consenting urban retail water supplier and urban wholesale water supplier.

Introduction

According to California Water Code Sections 10608.20(a)(1) and 10608.28, urban retail water suppliers may plan, comply, and report on a regional basis, an individual basis or both. The California Department of Water Resources' (DWR) guidebook titled, "Methodologies for Calculating Baseline and Compliance Urban per Capita Water Use" includes "Methodology 9" which prescribes three options by which the regional alliance

compliance may be calculated. Each group of water suppliers agreeing among themselves to plan, comply, and report as a region is referred to in Methodology 9 as a “regional alliance.”

Calculation of Regional Targets

Water suppliers in a regional alliance have three options to calculate the regional targets.

Option 1

This option preserves maximum flexibility at the water supplier level. Each retail water supplier in a regional alliance first calculates its individual target. The individual targets from each retail water supplier is then multiplied by each retail water supplier’s population. The total is divided by the total population in the alliance to obtain the regional target. For the 2010 urban water management plans, retail water suppliers used their estimated population data to generate the regional targets. However, for compliance in 2015 and 2020, the population weighting of the individual targets must be based upon the compliance-year population data. Because 2010 U.S. Census data was not available until 2012, retail water suppliers were required to recalculate its individual population, baseline and targets in 2015. A modification in any individual target or a change in membership in a regional alliance will require a recalculation of the entire regional target.

Option 2

The second option for an alliance to calculate a regional target is to sum up the individual retail water supplier’s gross water use and service area populations to develop regional gross water use and population. The alliance would then calculate regional base daily per capita use and choose one target method to calculate a regional target. This option requires all the members to use the same baseline period.

Option 3

A third option is to calculate regional gross water use or population directly for the entire regional alliance area. Regional base daily per capita use and a regional water use target would then be derived. Like Option 2, members of alliances using this option must use the same baseline period and the same target method. The regional target may not exceed 95 percent of the region's 5-year Base Daily Per Capita Water Use.

Results

The Gateway Regional Alliance has chosen Option 1 to estimate its Regional Target. The following tabulation summarizes the steps used with Option 1 and to calculate the Regional Target. As shown in the tabulation below, the "Regional Alliance Weighted Average 10-15 Year Baseline" is 128 GPCD. The "Regional Alliance Weighted Average 2020 Target" is 111 GPCD. The "Regional Alliance 2015 Interim Target" is based on the mid-point between the Weighted Average 10-15 Year Baseline (129 GPCD) and the Weighted Average 2020 Target (115 GPCD). The Regional Alliance 2015 Interim Target is 120 GPCD $((128 + 111) / 2)$.

Based on each of the member agencies' individual 2015 Actual water use, the "Regional Alliance 2015 Actual water use" is 102 GPCD. The 2015 Actual water use of 102 GPCD is less than the "Regional Alliance 2015 Interim Target" of 120 GPCD. Therefore, the Gateway Regional Alliance achieved its Targeted Reduction for 2015 and is in compliance with the 2015 Interim Target.

SB X7-7 RA1 - Weighted Baseline

Participating Member Agency Name	10-15 year Baseline GPCD*	Average Population During 10-15 Year Baseline Period	(Baseline GPCD) X (Population)	Regional Alliance Weighted Average 10-15 Year Baseline GPCD
City of Downey	144	108,998	15,695,712	
City of Lakewood	107	58,241	6,231,787	
City of Long Beach	134	457,727	61,335,418	
City of Lynwood	100	63,227	6,322,700	
City of Norwalk	107	16,372	1,751,804	
City of Paramount	118	55,137	6,506,166	
City of Pico Rivera	121	40,513	4,902,073	
Pico Water District	150	22,598	3,389,700	
City of Santa Fe Springs	101	14,876	1,502,476	
City of Signal Hill	188	10,621	1,996,748	
City of South Gate	102	87,841	8,959,782	
City of Whittier	155	53,155	8,239,025	
Regional Alliance Total	1,527	989,306	126,833,391	

**All participating agencies must submit individual SB X7-7 Tables, as applicable, showing the individual agency's calculations. These tables are: SB X7-7 Tables 0 through 6, Table 7, any required supporting tables (as stated in SB X7-7 Table 7), and SB X7-7 Table 9, as applicable. These individual agency tables will be submitted with the individual or Regional Urban Water Management Plan.*

NOTES: The City of Bell Gardens, City of Bellflower, and City of Vernon were removed from the 2015 Regional Alliance calculations. The City of Bell Gardens and City of Bellflower are not required to prepare an UWMP. The City of Vernon has a population of 100 and is exclusively industrial. The City of Vernon may not be required to prepare an UWMP.

SB X7-7 RA1 - Weighted 2020 Target

Participating Member Agency Name	2020 Target GPCD*	2015 Population	(Target) X (Population)	Regional Alliance Weighted Average 2020 Target
City of Downey	137	112,354	15,392,482	
City of Lakewood	99	59,331	5,873,769	
City of Long Beach	107	481,784	51,550,888	
City of Lynwood	85	62,919	5,348,115	
City of Norwalk	110	18,361	2,019,710	
City of Paramount	114	55,302	6,304,428	
City of Pico Rivera	117	39,453	4,616,001	
Pico Water District	142	22,799	3,237,458	
City of Santa Fe Springs	100	14,644	1,464,400	
City of Signal Hill	151	11,500	1,736,500	
City of South Gate	100	79,983	7,998,300	
City of Whittier	134	56,200	7,530,800	
Regional Alliance Total	1,396	1,014,630	113,072,851	

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SB X7-7 RA1 - 2015 Target

Weighted Average 10-15 year Baseline GPCD	Weighted Average 2020 Target	Regional Alliance 2015 Interim Target
128	111	120

NOTES

SB X7-7 RA1 - 2015 GPCD (Actual)				
Participating Member Agency Name	2015 Actual GPCD ¹	2015 Population	(2015 GPCD) X (2015 Population)	Regional Alliance 2015 GPCD (Actual)
City of Downey	119	112,354	13,370,112	
City of Lakewood	82	59,331	4,865,142	
City of Long Beach	102	481,784	49,141,968	
City of Lynwood	80	62,919	5,033,520	
City of Norwalk	111	18,361	2,038,071	
City of Paramount	103	55,302	5,696,106	
City of Pico Rivera	103	39,453	4,063,659	
Pico Water District	108	22,799	2,462,292	
City of Santa Fe Springs	83	14,644	1,215,452	
City of Signal Hill	143	11,500	1,644,500	
City of South Gate	81	79,983	6,478,623	
City of Whittier	131	56,200	7,362,200	
Regional Alliance Totals	1,246	1,014,630	103,371,645	

¹ All participating agencies must submit individual SB X7-7 Tables, as applicable, showing the individual agency's calculations. These tables are: SB X7-7 Tables 0 through 6, Table 7, any required supporting tables (as stated in SB X7-7 Table 7), and SB X7-7 Table 9, as applicable. These individual agency tables will be submitted with the individual or Regional Urban Water Management Plan.

NOTES: The City of Bell Gardens, City of Bellflower, and City of Vernon were removed from the 2015 Regional Alliance calculations. The City of Bell Gardens and City of Bellflower are not required to prepare an UWMP. The City of Vernon has a population of 100 and is exclusively industrial. The City of Vernon may not be required to prepare an UWMP.

SB X7-7 RA1 - Compliance Verification				
2015 GPCD (Actual)	2015 Interim Target GPCD	Economic Adjustment ¹ <i>Enter "0" if no adjustment</i>	Adjusted 2015 GPCD <i>(if economic adjustment used)</i>	Did Alliance Achieve Targeted Reduction for 2015?
102	120	0	102	YES

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 upon availability of suitable data and methods.

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