

CASGEM BASIN SUMMARY

Hydrologic Region: Sacramento River
 North Region Office (NRO)
 Basin Area: 117680 acres (183.9 miles)
 2010 Population: 2196

Basin: SIERRA VALLEY
 Sub_Basin: SIERRA VALLEY
 Basin Number: 5-12.01
 Date: 5/30/2014

DATA COMPONENT RANKING VALUE TABLE

Data Component	Ranking Range (x)	Units	Ranking Value	Confidence Adjustment	Average of Components	Adjusted Ranking Values
1. Population	$7 \leq x < 250$	persons/sq-mi	1			1
2. Population Growth	$x \geq 40\%$	percent	5			5
3. Public Supply Wells	$0 < x < 0.1$	wells/sq-mi	1			1
4. Total Wells	$2 \leq x < 5$	wells/sq-mi	2	1.5		1.5
5. Irrigated Acreage	$x \geq 350$	acres/sq-mi	5			5
6. GW Reliance	GW Use	acre-foot/acre	4		3	3
	% of Total Supply					
7. Impacts*	--	--	3			3
8. Other Information**	--	--	0			0
Overall Basin Ranking Score	$13.42 \leq x <$	--				19.5

Overall Basin Priority: Medium

Very Low Ranking Range	Low Ranking Range	Medium Ranking Range	High Ranking Range
Range < 5.75	$5.75 \geq \text{Range} < 13.42$	$13.43 \geq \text{Range} < 21.08$	Range ≥ 21.08

Data Sources and Calculation Notes:

1. Population: Department of Finance 2010 census data.
2. Population Growth: Department of Finance 2010 census data projected to 2030.
3. Public Supply Wells: Department of Public Health, 2012 Drinking Water Supply Database.
4. Total Wells: DWR 2012 Well Master database.
5. Irrigated Acreage: DWR, most recent land use projection and public comment feedback.
6. Groundwater Reliance: DWR, most recent land use projection and public comment feedback.
7. Documented Impacts: DWR Region staff review of DWR Bulletin 118-2003, Groundwater Management Plans, public comment feedback, or other readily available published information.
8. Other Information: DWR Region staff review of DWR Bulletin 118-2003, Groundwater Management Plans, public comment feedback, or other readily available published information.
9. Data component values were reduced by 25% due to data confidence, prior to calculating total groundwater basin ranking value.
10. Overall Basin Ranking = Population + Population Growth + Public Supply Wells + (Total Wells x .75) + Irrigated Acreage + (Groundwater Use + % of Total Supply)/2 + Impacts + Other information

Notes on SIERRA VALLEY Basin

* Impacts: Declining GW Levels and artesian well production along the east and northeast side of the valley. Poor quality water in west-central side of valley (boron, fluoride, arsenic, & sodium).

**Other Information: None