

# CASGEM BASIN SUMMARY

Hydrologic Region: San Francisco Bay  
North Central Region Office (NCRO)  
Basin Area: 45895 acres (71.7 miles)  
2010 Population: 91234

Basin: NAPA-SONOMA VALLEY  
Sub\_Basin: NAPA VALLEY  
Basin Number: 2-2.01  
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		$1000 \leq x < 2500$	persons/sq-mi	3			3
2. Population Growth		$0 \leq x < 6$	percent	1			1
3. Public Supply Wells		$x \geq 1.0$	wells/sq-mi	5			5
4. Total Wells		$x \geq 20$	wells/sq-mi	5	3.75		3.75
5. Irrigated Acreage		$200 \leq x < 350$	acres/sq-mi	4			4
6. GW Reliance	GW Use	$0.25 \leq x < 0.5$	acre-foot/acre	3		3	3
	% of Total Supply	$40 \leq x < 60$	percent	3			
7. Impacts*		--	--	1			1
8. Other Information**		--	--	0			0
Overall Basin Ranking Score		$13.42 \leq x <$	--				20.8

## 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 $\geq 21.08$

### 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 NAPA-SONOMA VALLEY Basin

\* Impacts: Two isolated areas in the Sonoma Valley indicate substantial declines in gw elevations and RWQCB report that 43 underground fuel tank leaks have occurred in the basin (unpublished B-118 data) (Ludhorff & Scalmanini Consulting Engineers, 1999).

\*\*Other Information: None