

CASGEM Groundwater Basin Prioritization Results Sorted by Basin Number									Data Component Ranking Value										Overall Ranking		Impact Comments	Other Information Comments
Basin count	Basin Number	Basin Name	Sub-Basin Name	Hydrologic Region	DWR Region Office	Basin Area		2010 Population	Population	Population Growth	Public Supply Wells	Total Wells *	Irrigated Acreage	Groundwater Reliance			Impacts	Other Information	Overall Basin Ranking Score ***	Overall Basin Priority		
						Acres	Sq. Mile							GW Use **	Percent of Total Supply **	GW Reliance Total						
1	3-1	SOQUEL VALLEY		Central Coast	SCRO	2,515	3.9	18,634	5	2	5	3.75	1	5	4	4.5	1	0	22.3	High	Water quality degradation, saline intrusion issues.	
2	3-2	PAJARO VALLEY		Central Coast	SCRO	88,062	137.6	114,282	2	2	4	3.75	4	5	5	5	4	0	24.8	High	PVWMD 2011 Annual Report indicates that Pajaro Valley GW basin remains in significant overdraft, with continuing seawater intrusion and gw storage depletion.	
3	3-20	ANO NUEVO AREA		Central Coast	SCRO	2,030	3.2	46	1	0	4	1.5	3	1	5	0	0	0	0.0	Very Low		
4	3-21	SANTA CRUZ PURISIMA FORMATION		Central Coast	SCRO	40,166	62.8	17,693	2	0	3	3.75	1	3	4	3.5	0	1	14.3	Medium		Basin comprises the highland area east of Santa Cruz and serves as a forebay to Pajaro, Soquel, and Terrace Basins to the west...which are in various stages of overdraft.
5	3-22	SANTA ANA VALLEY		Central Coast	SCRO	2,724	4.3	76	1	0	0	2.25	4	4	5	0	0	0	0.0	Very Low		
6	3-23	UPPER SANTA ANA VALLEY		Central Coast	SCRO	1,431	2.2	5	0	0	0	0	0	1	5	0	0	0	0.0	Very Low		
7	3-24	QUIEN SABE VALLEY		Central Coast	SCRO	4,706	7.4	5	0	0	0	0	3	1	1	0	0	0	0.0	Very Low		
8	3-25	TRES PINOS VALLEY		Central Coast	SCRO	3,385	5.3	48	1	0	4	2.25	4	4	5	0	0	0	0.0	Very Low		
9	3-26	WEST SANTA CRUZ TERRACE		Central Coast	SCRO	7,863	12.3	70,336	5	1	3	3.75	1	4	4	4	2	1	20.8	Medium	Water quality degradation	Low gw use, but basin at high risk of seawater intrusion due to thin alluvial aquifer and dependency on up-gradient users to maintain positive westward flow conditions (2005, Santa Cruz UWMP).
10	3-27	SCOTTS VALLEY		Central Coast	SCRO	773	1.2	3,875	4	1	5	3.75	0	3	0	0	4	0	0.0	Very Low	Overdraft and water quality issues associated with contaminated sites within the basin.	
11	3-28	SAN BENITO RIVER VALLEY		Central Coast	SCRO	24,223	37.8	101	0	0	2	0.75	1	1	5	0	0	0	0.0	Very Low		
12	3-29	DRY LAKE VALLEY		Central Coast	SCRO	1,416	2.2	8	0	0	0	0	2	2	5	0	0	0	0.0	Very Low		
13	3-3.01	GILROY-HOLLISTER VALLEY	LLAGAS AREA	Central Coast	SCRO	55,967	87.4	91,706	3	2	5	3.75	5	5	5	5	2	0	25.8	High	Nitrate has impacted a significant number of private domestic wells across the Llagas Subbasin due to historic and ongoing sources including agricultural activities and septic systems, Perchlorate is also a problem	
14	3-3.02	GILROY-HOLLISTER VALLEY	BOLSA AREA	Central Coast	SCRO	20,912	32.7	2,935	1	1	1	2.25	5	2	2	2	4	0	16.3	Medium	Water quality degradation, overdraft	
15	3-3.03	GILROY-HOLLISTER VALLEY	HOLLISTER AREA	Central Coast	SCRO	32,729	51.1	22,013	2	1	4	3	4	3	4	3.5	0	0	17.5	Medium		
16	3-3.04	GILROY-HOLLISTER VALLEY	SAN JUAN BAUTISTA AREA	Central Coast	SCRO	74,305	116.1	26,150	1	1	3	2.25	2	2	5	3.5	4	0	16.8	Medium	Poor water quality due to high TDS	
17	3-30	BITTER WATER VALLEY		Central Coast	SCRO	32,222	50.3	38	0	0	0	0.75	2	0	0	0	0	0	0.0	Very Low		
18	3-31	HERNANDEZ VALLEY		Central Coast	SCRO	2,865	4.5	3	0	0	0	1.5	0	0	0	0	0	0	0.0	Very Low		
19	3-32	PEACH TREE VALLEY		Central Coast	SCRO	9,791	15.3	7	0	0	0	0.75	2	1	5	0	0	0	0.0	Very Low		
20	3-4.01	SALINAS VALLEY	180/400 FOOT AQUIFER	Central Coast	SCRO	84,321	131.8	55,740	2	0	4	3	5	5	5	5	5	0	24.0	High	Coastal basin with saline intrusion in both 180-Foot and 400-Foot aquifers due to excessive groundwater pumping	
21	3-4.02	SALINAS VALLEY	EAST SIDE AQUIFER	Central Coast	SCRO	57,452	89.8	128,646	3	4	4	3	5	5	5	5	3	0	27.0	High	Overdraft conditions in basin, high TDS and Nitrates exceeding drinking water standards in portions of the basin	
22	3-4.04	SALINAS VALLEY	FOREBAY AQUIFER	Central Coast	SCRO	94,025	146.9	43,867	2	1	2	2.25	5	5	5	5	0	0	17.3	Medium		
23	3-4.05	SALINAS VALLEY	UPPER VALLEY AQUIFER	Central Coast	SCRO	98,164	153.4	15,862	1	1	2	1.5	4	5	5	5	1	0	15.5	Medium	Poor quality water along the eastern side of subbasin. PSW above MCL for inorganics and Nitrates (B-118).	
24	3-4.06	SALINAS VALLEY	PASO ROBLES AREA	Central Coast	SCRO	597,241	933.2	56,077	1	4	2	0.75	3	2	5	3.5	4	5	23.3	High	Nitrate and TDS impacts to groundwater (B-118)	County groundwater ordinance banning further residential development in basin.
25	3-4.08	SALINAS VALLEY	SEASIDE AREA	Central Coast	SCRO	25,903	40.5	65,899	3	0	4	3.75	1	3	5	4	5	0	20.8	Medium	Seawater intrusion in Coastal basin due to excessive pumping	
26	3-4.09	SALINAS VALLEY	LANGLEY AREA	Central Coast	SCRO	15,344	24.0	9,833	2	1	5	3.75	2	5	5	5	0	0	18.8	Medium		
27	3-4.10	SALINAS VALLEY	CORRAL DE TIERRA AREA	Central Coast	SCRO	22,274	34.8	7,831	1	3	4	3	0	3	5	4	0	0	15.0	Medium		
28	3-5	CHOLAME VALLEY		Central Coast	SCRO	39,847	62.3	48	0	0	1	0.75	2	0	0	0	0	0	0.0	Very Low		
29	3-50	FELTON AREA		Central Coast	SCRO	1,155	1.8	3,024	3	1	0	3.75	0	2	4	0	3	0	0.0	Very Low	Overdraft	
30	3-51	MAJORS CREEK		Central Coast	SCRO	364	0.6	53	1	0	0	1.5	5	4	5	0	0	0	0.0	Very Low		
31	3-52	NEEDLE ROCK POINT		Central Coast	SCRO	479	0.7	66	1	0	0	3.75	5	3	5	0	0	0	0.0	Very Low		
32	3-6	LOCKWOOD VALLEY		Central Coast	SCRO	59,933	93.6	1,171	1	0	2	1.5	2	0	0	0	0	0	0.0	Very Low		
33	3-7	CARMEL VALLEY		Central Coast	SCRO	5,151	8.0	5,086	2	3	5	3.75	2	5	5	5	1	1	22.8	High	Excessive pumping of Cal-Am wells caused groundwater overdraft and Carmel River to dry, leading to court order.	SW-GW Interaction Issue. Cal-Am Water Company court ordered to reduce 2/3rds of diversions from Carmel River.

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34	3-8	LOS OSOS VALLEY		Central Coast	SCRO	6,994	10.9	13,948	3	0	5	0	4	3	3	3	5	2	22.0	High	Documented saline intrusion due to "serious" overdraft, also nitrate impairment.	Interlocutory Stipulated Judgment against water suppliers and purveyors in basin and proceeding with adjudication. Also add one point due to total well count error for this basin.
35	3-9	SAN LUIS OBISPO VALLEY		Central Coast	SCRO	12,724	19.9	18,834	2	1	5	0	4	3	4	3.5	3	1	19.5	Medium	Overdraft Conditions	While only 18,000 may live in the actual basin, over 45,000 (2010 census) rely on the basin for 2/3rds of their drinking water.
36	5-22.02	SAN JOAQUIN VALLEY	MODESTO	San Joaquin River	SCRO	246,518	385.2	294,872	2	3	4	3	4	5	2	3.5	4	0	23.5	High	Water quality degradation due to industrial and agricultural practices	
37	5-22.03	SAN JOAQUIN VALLEY	TURLOCK	San Joaquin River	SCRO	347,146	542.4	197,605	2	3	3	3	5	5	2	3.5	2	0	21.5	High	Groundwater overdraft documented in local GWMP.	
38	5-22.04	SAN JOAQUIN VALLEY	MERCED	San Joaquin River	SCRO	491,255	767.6	173,731	1	4	2	3	5	4	3	3.5	4	0	22.5	High	Overdraft and water quality degradation (MAGPI GWMP).	
39	5-22.05	SAN JOAQUIN VALLEY	CHOWCHILLA	San Joaquin River	SCRO	159,319	248.9	15,820	1	4	2	2.25	5	5	3	4	3	0	21.3	High	Overdraft, subsidence, water quality degradation	
40	5-22.06	SAN JOAQUIN VALLEY	MADERA	San Joaquin River	SCRO	393,429	614.7	116,919	1	5	2	3	5	5	3	4	5	0	25.0	High	Subsidence, critical overdraft, water quality degradation	
41	5-22.07	SAN JOAQUIN VALLEY	DELTA-MENDOTA	San Joaquin River	SCRO	746,697	1,166.7	107,879	1	5	1	2.25	5	4	2	3	2	3	22.3	High	Overdraft issues in basin discussed in San Luis and Delta Mendota Water Authority GWMP	Important agricultural region.
42	5-22.08	SAN JOAQUIN VALLEY	KINGS	Tulare Lake	SCRO	977,030	1,526.6	906,544	2	4	4	3.75	5	5	3	4	0	0	22.8	High		
43	5-22.09	SAN JOAQUIN VALLEY	WESTSIDE	Tulare Lake	SCRO	640,504	1,000.8	27,285	1	1	1	1.5	5	4	2	3	5	5	22.5	High	Subsidence, critical overdraft, saline conditions, subsidence	Additional points added for critical agricultural importance, very high TDS and pesticide contamination issues
44	5-22.10	SAN JOAQUIN VALLEY	PLEASANT VALLEY	Tulare Lake	SCRO	145,782	227.8	34,213	1	3	0	0.75	3	3	5	4	0	0	11.8	Low		
45	5-22.11	SAN JOAQUIN VALLEY	KAWEAH	Tulare Lake	SCRO	446,283	697.3	271,700	2	5	3	3	5	5	2	3.5	5	0	26.5	High	Overdraft, water quality issues.	
46	5-22.12	SAN JOAQUIN VALLEY	TULARE LAKE	Tulare Lake	SCRO	524,539	819.6	125,701	1	4	1	2.25	5	5	3	4	5	0	22.3	High	Subsidence, overdraft, water quality degradation	
47	5-22.13	SAN JOAQUIN VALLEY	TULE	Tulare Lake	SCRO	469,959	734.3	108,660	1	4	2	2.25	5	5	3	4	4	0	22.3	High	Critical aquifer overdraft conditions in basin. High Nitrate and TDS in some locations and some inorganic contamination issues.	
48	5-22.14	SAN JOAQUIN VALLEY	KERN COUNTY	Tulare Lake	SCRO	1,950,113	3,047.1	700,323	1	5	2	1.5	4	4	2	3	5	1	22.5	High	Subsidence, overdraft, water quality degradation	Agricultural importance, large basin which results in low population density.
49	5-23	PANOCH VALLEY		Tulare Lake	SCRO	33,090	51.7	41	0	0	0	0.75	1	0	5	0	0	0	0.0	Very Low		
50	5-25	KERN RIVER VALLEY		Tulare Lake	SCRO	79,678	124.5	10,364	1	1	4	2.25	1	0	0	0	0	0	0.0	Very Low		
51	5-26	WALKER BASIN CREEK VALLEY		Tulare Lake	SCRO	7,693	12.0	249	1	0	1	3	2	0	1	0	0	0	0.0	Very Low		
52	5-27	CUMMINGS VALLEY		Tulare Lake	SCRO	10,051	15.7	7,665	2	5	4	3	3	3	5	4	0	1	22.0	High		Adjudicated basin
53	5-28	TEHACHAPI VALLEY WEST		Tulare Lake	SCRO	14,854	23.2	17,313	2	5	5	3.75	1	2	1	1.5	1	1	20.3	Medium	Groundwater quality issues	Adjudicated basin
54	5-29	CASTAC LAKE VALLEY		Tulare Lake	SCRO	3,573	5.6	366	1	0	5	0.75	1	1	5	0	0	0	0.0	Very Low		
55	5-69	YOSEMITE VALLEY		San Joaquin River	SCRO	7,465	11.7	1,016	1	5	4	0.75	0	1	5	0	0	0	0.0	Very Low		
56	5-70	LOS BANOS CREEK VALLEY		San Joaquin River	SCRO	4,835	7.6	0	0	0	0	0	0	0	0	0	0	0	0.0	Very Low		
57	5-71	VALLECITOS CREEK VALLEY		Tulare Lake	SCRO	15,110	23.6	0	0	0	0	0	0	0	0	0	0	0	0.0	Very Low		
58	5-80	BRITE VALLEY		Tulare Lake	SCRO	3,181	5.0	684	1	0	4	3.75	2	1	3	0	0	1	0.0	Very Low		Adjudicated basin
59	5-82	CUDDY CANYON VALLEY		Tulare Lake	SCRO	3,308	5.2	2,641	2	4	5	2.25	0	2	5	0	0	0	0.0	Very Low		
60	5-83	CUDDY RANCH AREA		Tulare Lake	SCRO	4,213	6.6	774	1	0	5	1.5	2	0	0	0	0	0	0.0	Very Low		
61	5-84	CUDDY VALLEY		Tulare Lake	SCRO	3,474	5.4	779	1	0	5	2.25	0	1	5	0	0	0	0.0	Very Low		
62	5-85	MIL POTRERO AREA		Tulare Lake	SCRO	2,314	3.6	1,288	2	5	5	1.5	0	2	5	0	0	0	0.0	Very Low		

NOTE: * Data component values were reduced by 25% due to data confidence, prior to calculating total GW basin ranking value
** Sub-fields that are used to determine the overall GW Reliance Total ((GW Use + GW %)/2)
*** Overall Basin Ranking Score = Population + Population Growth + PSW + (Total Wells x .75) + Irr Acreage + (GW Use + GW %)/2 + Impacts + Other