

Results & Discussion

Table 13. Central Valley Basin Flows from the C2VSim model for Water Years 2000-2009.

Hydrologic Region	C2VSim Subregion	DA	Area (mi ²)	Precipitation	Total Evapo-Transpiration	Surface Water Inflows*	Surface Water Outflows*	Agricultural Demand	Ag Surface Water Deliveries	Ag Groundwater Pumpage	M&I Demand	M&I Surface Water Deliveries	M&I Groundwater Pumpage	Groundwater Discharge to Rivers	Small Watershed Baseflow	Groundwater Recharge	Change in Groundwater Storage	Subsidence Volume	Interbasin Groundwater Flow	
1. Sacramento Valley																				
	1	58	513	795,273	655,376	8,243,793	8,808,276	77,100	88,389	27,919	91,481	25,637	65,848	68,755	77,151	48,581	-36,770	20	-18,229	
	2	10	1,091	1,305,474	1,352,581	10,382,007	9,748,904	369,425	175,392	322,510	44,980	0	44,980	-12,759	86,314	221,606	-46,656	154	-9,304	
	3	12	1,077	1,089,754	1,729,995	0	774,948	1,003,636	1,281,030	235,900	12,040	0	12,040	82,597	68,215	210,445	-49,985	1,892	-13,457	
	4	15	549	539,111	1,074,006	10,523,852	8,356,437	620,260	654,745	233,970	5,410	0	5,410	30,014	0	252,694	-15,146	1,556	940	
	5	69	959	1,101,001	1,882,298	4,833,329	6,920,768	1,099,488	1,352,083	468,825	91,141	22,347	68,798	-242,342	19,375	244,849	-30,978	79	36,627	
	6	65	1,028	1,094,849	1,345,256	478,973	2,258,947	467,044	358,379	278,384	85,641	51,659	34,015	-115,153	61,102	106,334	-27,967	1,843	-55,163	
	7	70	547	544,172	910,071	17,455,831	15,886,567	415,676	290,896	371,939	268,772	186,325	82,801	-181,273	87,765	89,131	-95,922	650	70,852	
	TOTAL		5,763	6,469,634	8,949,582	*	*	4,052,629	4,200,914	1,939,448	599,464	285,967	313,893	-370,162	399,922	1,173,639	-303,425	6,194	*	
2. Eastside Streams																				
	8	59	1,399	1,247,115	1,561,037	835,570	986,550	550,437	97,986	642,427	234,492	85,213	149,287	-378,940	119,844	151,694	-140,715	521	179,604	
3. Sacramento-San Joaquin Delta																				
	9	55	1,134	884,226	1,422,024	22,101,888	18,886,011	573,529	702,999	177,850	104,011	88,481	15,820	-80,853	21,041	80,812	-10,770	193	-102,442	
4. San Joaquin Basin																				
	10	49A	1,044	508,561	1,433,893	2,681,517	2,969,824	861,330	1,014,040	368,368	35,440	9,111	26,336	51,720	32,419	364,884	-47,107	28,290	-13,637	
	11	49B	645	424,133	941,060	1,948,977	1,313,173	501,029	662,342	85,963	132,861	42,857	90,011	191,879	17,098	324,881	-25,841	32	-130,371	
	12	49C	532	324,825	860,329	870,993	489,389	504,502	565,365	169,463	60,080	0	60,083	30,425	2,409	227,016	-30,521	24	15,878	
	13	49D	1,621	946,368	2,005,744	530,910	590,575	1,037,214	540,453	805,905	92,211	7,848	84,442	-276,974	12,600	345,195	-242,128	13,450	77,117	
	TOTAL		3,842	2,203,888	5,241,026	*	*	2,904,076	2,782,200	1,429,698	320,592	59,816	260,871	-2,950	64,526	1,261,977	-345,596	41,796	*	
5. Tulare Basin																				
	14	60A	1,047	383,992	1,384,787	0	0	840,533	848,325	430,725	22,180	10,707	12,992	-60,423	25,808	254,932	-87,843	15,570	59,994	
	15	60B	1,413	511,945	2,039,033	558,121	565,104	1,319,055	674,035	1,146,980	67,890	3,042	64,849	-493,430	3,729	447,551	-122,783	12,965	395,655	
	16	60C	473	259,498	565,413	0	0	262,347	423,286	29,451	222,232	47,815	174,761	195,874	9,602	336,965	-51,257	2,263	-216,227	
	17	60D	583	320,971	823,604	1,522,582	279,124	517,266	306,798	352,205	66,340	1,734	64,607	-16,723	4,866	296,650	-97,794	779	-34,436	
	18	60E	1,402	617,055	1,812,558	489,009	188,025	1,060,907	1,333,704	298,993	131,401	3,006	128,396	415,379	23,736	750,114	-52,452	16,468	-344,435	
	19	60F	1,252	368,732	1,221,191	93,471	90,972	751,951	174,929	729,138	17,460	2,825	14,792	-152,334	3,783	191,555	-318,534	77,722	114,393	
	20	60G	662	231,563	888,223	0	0	563,825	210,617	488,527	57,460	106,879	2,343	58,187	52,255	197,980	-245,960	52,862	-78,514	
	21	60H	1,020	318,590	1,578,028	617,917	93,471	1,034,730	490,559	895,135	171,971	6,590	165,384	-94,129	79,146	488,434	-364,617	33,025	65,156	
	TOTAL		7,852	3,012,347	10,312,838	*	*	6,350,614	4,462,254	4,371,154	756,935	182,599	628,124	-147,600	202,925	2,964,179	-1,341,238	211,652	*	
Central Valley		19,989	13,817,210	27,486,507	24,131,065	19,169,390	12,246,354	8,560,576	2,015,494	808,258	5,632,301	-2,141,744	260,358	*						

Groundwater Flows to Rivers = Stream-Aquifer + Lake-Aquifer + Tile Drains

Recharge = Net Deep Percolation + Small Watershed Baseflow + Small Watershed Percolation + Diversion Recoverable Loss + Bypass Recoverable Loss

* Surface water inflows and outflows and interbasin flows do not add up across subregions or hydrologic regions