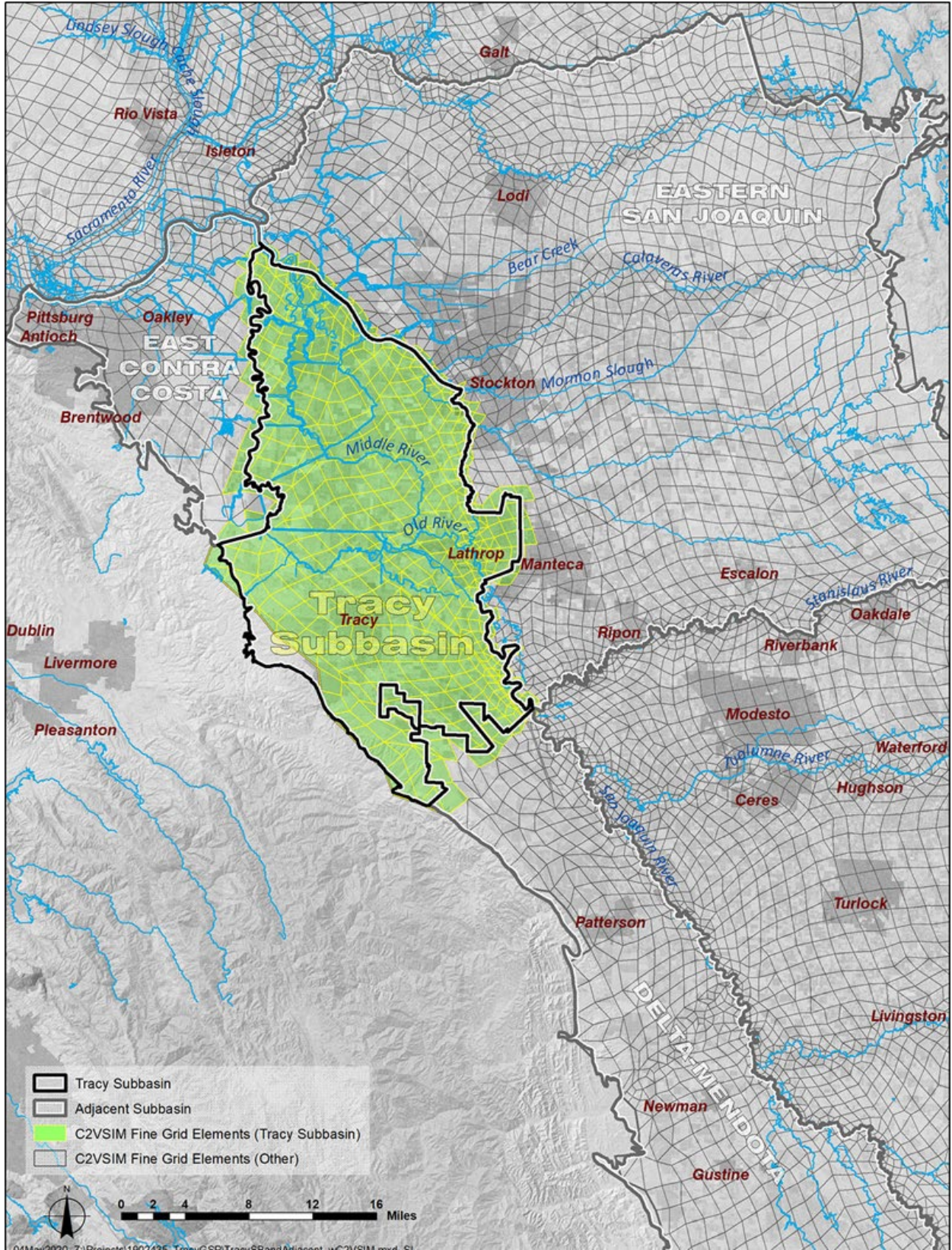


**APPENDIX M
GROUNDWATER MODELING
SUPPLEMENTAL INFORMATION**



Tracy Subbasin C2VSIM Results - Historical

AVERAGES	Inflow (AF)										Outflow (AF)							Change in Storage (AC-FT)	Cumulative Change in Storage (AC-FT)
	40,183	175,107	6,423	62,035	19,053	24,419	56,457	678	384,151	103,997	167,378	11,355	64,337	33,603	574	381,243			
Water Year	Streams In	Deep Percolation	Small Watersheds In	Diversion Recharge	Subsidence (inflow-outflow)	Subsurface East Contra Costa	Subsurface Eastern San Joaquin	Subsurface Delta Mendota	Subsurface Other	TOTAL IN	Streams Out	Pumping	Subsurface East Contra Costa	Subsurface Eastern San Joaquin	Subsurface Delta Mendota	Subsurface Other	TOTAL OUT		
1974	62,548	204,911	22,811	58,233	14,225	18,192	29,790	45,289	201	456,200	76,302	156,780	7,830	46,183	39,800	2,369	329,265	126,935	126,935
1975	54,725	181,956	1,602	58,294	2,886	12,956	27,602	48,056	399	388,476	81,032	155,876	7,267	49,140	39,767	872	333,954	54,522	181,457
1976	36,084	122,012	689	65,989	4,574	15,223	26,839	53,785	578	325,773	102,811	147,114	9,871	54,904	37,217	854	352,772	-26,999	154,459
1977	27,850	140,543	580	48,164	10,844	17,695	24,951	54,196	495	325,318	106,652	192,187	9,298	63,097	35,180	436	406,849	-81,530	72,929
1978	64,988	195,097	2,860	55,149	2,101	16,424	23,063	50,399	520	410,601	81,306	142,712	8,529	63,373	31,640	267	327,826	82,775	155,703
1979	43,407	166,824	2,532	56,698	1,327	15,542	24,244	51,752	440	362,766	102,514	155,177	9,502	63,260	29,533	335	360,321	2,445	158,148
1980	54,382	188,331	14,362	53,143	328	14,059	23,992	53,341	283	402,220	89,611	139,134	10,731	59,763	27,701	326	327,266	74,954	233,102
1981	31,543	140,890	2,127	59,435	1,117	14,978	26,282	55,711	297	332,379	117,066	163,607	12,107	60,040	28,159	377	381,355	-48,977	184,126
1982	50,635	216,428	11,522	49,967	-37	14,829	24,696	54,667	301	423,007	90,853	126,923	12,530	56,127	27,463	272	314,168	108,840	292,966
1983	34,747	241,927	51,371	50,755	-168	19,395	26,618	54,802	491	479,938	112,260	115,414	11,273	55,515	25,605	268	320,335	159,604	452,569
1984	20,390	160,875	7,936	57,577	82	19,629	34,534	57,195	445	358,661	147,781	169,745	12,318	59,254	28,275	272	417,645	-58,984	393,585
1985	26,990	152,892	2,003	59,410	25	19,108	32,509	59,488	485	352,910	130,323	158,696	13,091	59,591	30,044	296	392,044	-39,134	354,451
1986	39,895	193,362	8,999	54,015	-74	17,830	29,792	60,366	465	404,649	113,104	140,314	13,167	57,594	29,730	282	354,191	50,458	404,910
1987	23,021	135,243	2,508	59,488	70	18,622	30,028	61,730	691	331,400	134,247	150,646	12,793	60,257	30,604	177	388,725	-57,324	347,585
1988	25,440	134,756	1,639	58,774	211	23,136	27,559	64,720	1,069	337,305	120,262	190,392	13,918	61,764	32,834	160	419,331	-82,027	265,559
1989	30,305	141,711	1,468	58,680	606	24,365	24,305	61,616	1,166	344,223	108,656	159,541	10,763	68,690	31,342	175	379,167	-34,944	230,615
1990	29,105	140,480	1,321	56,322	1,398	22,788	23,394	57,619	1,045	333,473	108,713	152,404	10,092	74,267	30,719	209	376,404	-42,931	187,683
1991	40,872	146,984	1,333	43,015	3,781	23,512	25,311	51,118	1,388	337,314	120,997	173,739	13,973	77,881	29,950	137	416,678	-79,364	108,320
1992	39,752	157,811	1,505	41,693	2,785	22,654	23,696	45,845	1,147	336,888	106,094	163,521	10,940	73,864	26,938	64	381,421	-44,533	63,787
1993	53,480	220,183	14,442	58,662	2,183	21,190	23,095	44,597	925	438,757	90,560	167,281	12,742	78,088	25,434	285	374,391	64,366	128,153
1994	32,098	171,207	2,597	59,773	4,754	21,719	23,364	45,853	1,013	362,379	105,091	207,721	15,299	78,484	26,268	155	433,018	-70,639	57,514
1995	63,271	234,320	21,004	64,517	433	21,382	22,007	44,666	1,064	472,665	83,627	130,279	18,118	77,364	24,611	322	334,321	138,344	195,857
1996	37,238	189,587	21,591	61,726	-31	22,461	24,497	50,616	1,156	408,842	118,612	151,994	16,524	71,051	25,746	367	384,292	24,550	220,407
1997	44,788	193,053	2,763	59,392	-13	22,032	25,466	51,218	1,072	399,770	119,711	150,819	15,350	71,087	25,840	284	383,090	16,680	237,086
1998	50,499	223,738	33,087	48,695	-111	21,425	24,445	50,430	1,076	453,283	97,190	156,293	13,360	65,271	24,264	309	356,688	96,596	333,682
1999	28,850	166,461	6,096	53,852	48	19,626	26,798	51,986	980	354,697	121,813	179,778	12,007	64,447	26,177	313	404,536	-49,839	283,843
2000	36,720	166,321	5,590	61,260	22	18,498	27,265	53,800	766	370,241	111,831	177,579	11,264	60,988	29,206	495	391,362	-21,121	262,723
2001	34,316	147,584	3,490	61,255	51	17,059	25,432	54,959	653	344,798	105,883	179,482	10,763	60,827	30,679	592	388,226	-43,427	219,295
2002	30,626	147,827	1,999	67,629	64	17,254	23,166	57,839	597	347,001	103,767	170,795	10,147	65,184	33,028	721	383,641	-36,640	182,655
2003	38,683	163,923	2,136	95,638	-21	15,865	21,931	63,930	465	402,549	96,267	150,058	9,506	66,648	37,947	1,063	361,489	41,059	223,715
2004	38,344	171,871	1,825	73,271	9	14,483	21,519	70,745	428	392,494	99,987	148,698	10,488	70,738	40,431	1,178	371,520	20,974	244,688
2005	54,766	206,514	2,058	55,664	-51	13,831	20,639	62,837	516	416,773	84,094	160,150	10,079	71,208	34,873	683	361,086	55,687	300,375
2006	52,900	185,563	1,648	56,531	-22	14,455	21,511	60,981	631	394,197	88,902	188,258	8,737	66,698	35,058	681	388,333	5,864	306,239
2007	29,336	148,033	1,260	54,941	701	16,746	22,613	56,535	871	331,036	105,313	251,670	9,454	65,926	34,767	494	467,623	-136,588	169,651
2008	39,908	156,818	1,218	48,964	398	18,996	21,253	50,071	811	338,438	99,097	176,484	10,411	67,934	33,251	305	387,482	-49,044	120,607
2009	36,551	137,440	1,084	47,591	558	21,692	20,236	44,026	768	309,945	94,167	155,826	9,745	64,679	31,342	250	356,008	-46,063	74,544
2010	48,209	212,545	1,047	169,713	-25	20,284	18,825	74,259	495	545,352	93,138	124,571	10,986	68,292	57,372	2,293	356,652	188,699	263,243
2011	64,064	253,079	2,037	152,911	-196	18,383	19,346	92,569	227	602,420	74,637	158,258	11,472	68,342	64,017	2,537	379,263	223,157	486,401
2012	27,025	169,885	1,121	69,275	122	20,874	23,711	79,232	420	391,665	119,767	250,230	10,943	61,777	52,733	1,323	496,774	-105,109	381,292
2013	36,049	161,181	941	47,815	36	22,652	21,184	64,118	587	354,564	108,352	196,893	10,610	58,298	43,920	580	418,652	-64,088	317,204
2014	37,034	145,440	725	42,462	969	24,027	19,261	55,604	541	326,063	90,183	231,511	9,412	55,002	42,411	370	428,888	-102,825	214,379
2015	36,254	152,933	856	49,114	1,400	24,353	18,843	48,648	522	332,923	105,309	211,321	9,492	59,257	39,449	341	425,169	-92,246	122,133

Tracy Subbasin C2VSIM Results - Projected

AVERAGES	Inflow (AF)										Outflow (AF)							Change in Storage (AF)	Cumulative Change in Storage (AF)
	58,633	180,334	6,458	74,015	608	23,075	23,427	60,303	486	427,338	93,446	199,549	10,158	74,157	44,251	971	422,532		
Water Year	Streams In	Deep Percolation	Small Watersheds In	Diversion Recharge	Subsidence (inflow-outflow)	Subsurface East Contra Costa	Subsurface Eastern San Joaquin	Subsurface Delta Mendota	Subsurface Other	TOTAL IN	Streams Out	Pumping	Subsurface East Contra Costa	Subsurface Eastern San Joaquin	Subsurface Delta Mendota	Subsurface Other	TOTAL OUT		
2016	61,079	157,770	22,350	56,705	8,243	24,006	20,186	55,585	590	406,515	87,837	233,761	7,585	61,108	49,424	864	440,580	-34,065	-34,065
2017	50,897	162,393	649	55,340	2,739	23,351	20,806	54,864	572	371,610	84,761	185,697	7,938	63,759	46,541	646	389,341	-17,730	-51,795
2018	89,709	208,168	4,977	49,110	1,116	20,294	25,556	46,207	588	445,725	73,320	176,468	9,844	69,479	39,399	406	368,915	76,810	25,015
2019	41,984	145,116	1,721	47,734	1,645	21,142	21,953	42,415	576	324,285	100,481	192,824	10,086	66,267	35,234	349	405,242	-80,957	-55,942
2020	75,035	255,111	13,465	169,562	197	19,809	25,201	70,826	248	629,455	87,129	160,841	11,451	71,010	59,270	2,528	392,229	237,227	181,285
2021	43,143	163,757	1,700	152,760	1,007	23,334	23,345	91,834	113	500,992	104,712	234,421	10,530	67,946	66,604	2,712	486,926	14,066	195,351
2022	46,438	143,402	1,128	68,867	2,302	25,913	22,293	81,663	307	392,314	95,280	233,036	8,763	69,261	56,074	1,447	463,862	-71,548	123,803
2023	50,353	147,026	951	47,391	2,731	26,453	21,963	66,310	498	363,677	89,781	211,886	7,958	71,222	47,098	691	428,636	-64,959	58,844
2024	79,350	169,984	1,086	42,722	1,273	23,888	23,158	55,145	476	397,082	74,535	210,807	7,908	75,209	43,655	415	412,528	-15,446	43,398
2025	79,930	197,984	2,041	49,302	5	20,544	23,651	47,945	424	421,826	77,996	177,028	9,817	79,326	39,504	378	384,049	37,777	81,175
2026	39,862	145,694	1,487	55,806	1,620	22,352	21,484	50,470	486	339,261	104,296	254,054	8,251	73,896	37,927	720	479,144	-139,883	-58,708
2027	84,412	187,762	1,870	55,373	38	20,659	24,357	46,652	584	421,707	76,082	177,568	9,711	76,106	33,622	605	373,693	48,013	-10,695
2028	53,353	165,045	1,470	49,212	337	20,616	22,675	41,782	597	355,088	101,202	185,311	10,858	73,333	30,832	378	401,913	-46,825	-57,520
2029	87,557	202,705	1,394	47,727	849	19,590	24,654	36,949	612	422,037	69,328	184,657	11,030	73,931	28,075	303	367,324	54,713	-2,807
2030	37,735	162,429	1,153	168,849	386	21,861	23,441	67,546	305	483,705	109,097	217,579	10,866	67,467	53,956	2,456	461,422	22,283	19,476
2031	87,099	228,853	15,410	153,221	-192	20,957	26,642	89,172	149	621,311	75,667	178,570	10,903	76,235	60,503	2,625	404,503	216,808	236,284
2032	51,344	169,868	2,717	69,534	30	21,419	25,247	79,107	337	419,602	104,135	211,585	10,784	73,056	51,170	1,362	452,092	-32,490	203,794
2033	54,873	168,298	2,922	48,113	4	22,574	24,096	64,071	497	385,448	101,148	188,619	10,051	71,884	42,720	623	415,045	-29,596	174,198
2034	55,710	136,608	1,383	42,848	112	23,701	21,578	42,848	503	337,009	83,136	232,693	8,637	70,801	41,535	358	437,159	-100,150	74,048
2035	74,912	201,388	2,151	49,384	87	21,861	24,062	47,461	486	421,791	81,922	193,790	9,187	77,864	38,848	299	401,910	19,880	93,928
2036	56,901	179,023	2,413	56,733	10	22,685	23,188	48,704	579	390,236	95,567	224,299	8,239	75,174	36,362	608	440,249	-50,013	43,915
2037	69,111	168,096	3,440	55,359	-20	22,454	23,608	46,614	655	389,317	83,940	188,892	9,217	71,694	32,953	531	387,226	2,091	46,006
2038	43,331	137,684	1,380	49,186	89	23,906	21,513	43,305	710	321,104	102,707	209,001	9,805	69,760	31,136	326	422,735	-101,631	-55,625
2039	47,049	123,392	1,143	44,465	5,380	27,117	20,656	39,695	716	309,613	91,217	243,312	8,566	69,953	29,636	279	442,962	-133,349	-188,974
2040	88,281	209,414	3,361	169,585	511	23,543	25,159	68,429	373	588,658	69,378	176,558	8,925	74,195	53,807	2,436	385,299	203,359	14,385
2041	61,258	190,575	2,976	153,307	-20	22,933	24,672	89,609	188	545,497	93,414	211,075	10,071	77,186	61,708	2,602	456,056	89,440	103,826
2042	83,064	205,695	14,763	69,377	-132	21,249	25,293	79,580	348	499,236	70,908	171,551	10,389	81,232	50,223	1,367	385,670	113,567	217,393
2043	50,971	153,136	2,474	48,239	70	21,876	23,151	65,289	516	365,720	96,969	215,722	10,186	76,648	43,353	626	443,503	-77,783	139,610
2044	74,447	236,041	11,828	42,547	-141	20,827	25,365	54,303	491	465,708	80,547	156,021	11,666	77,675	39,219	342	365,470	100,238	239,848
2045	53,265	264,823	51,644	49,238	-129	23,414	23,300	47,329	510	513,395	99,364	148,961	12,501	78,950	34,773	264	374,813	138,582	378,430
2046	32,446	161,761	8,177	56,881	136	25,812	24,552	51,701	594	362,059	130,174	259,917	10,563	70,457	37,222	639	508,972	-146,912	231,518
2047	46,918	155,204	2,217	55,519	28	25,893	21,501	51,064	716	359,059	102,566	194,729	10,187	69,074	36,694	504	413,754	-54,695	176,823
2048	69,884	219,921	9,189	49,054	-97	23,678	24,797	45,428	732	442,585	90,261	165,536	12,387	74,520	33,279	299	376,282	66,303	243,125
2049	33,676	146,756	2,676	47,789	126	24,247	23,767	41,965	733	321,735	121,302	209,158	12,144	69,411	32,114	248	444,378	-122,643	120,483
2050	42,504	168,932	1,788	169,710	12	26,049	22,044	73,026	375	504,440	102,253	209,891	10,950	69,323	58,768	2,348	453,531	50,909	171,391
2051	46,856	165,141	1,600	153,251	-17	26,468	22,249	93,279	201	509,029	95,135	200,649	10,472	75,821	65,528	2,613	450,218	58,810	230,202
2052	46,444	159,961	1,438	69,399	50	26,212	22,473	82,302	379	408,659	95,173	202,418	9,783	80,830	54,445	1,387	444,036	-35,377	194,825
2053	59,528	158,913	1,437	48,099	81	26,527	23,604	67,054	550	385,793	103,976	204,086	8,954	84,366	46,011	646	448,039	-62,246	132,579
2054	57,642	169,622	1,597	42,706	68	24,964	22,379	56,634	517	376,129	88,590	199,318	8,963	82,869	42,948	383	423,070	-46,941	85,638
2055	79,990	223,527	14,523	49,285	-51	22,114	23,443	51,017	490	464,339	69,026	185,546	9,377	88,715	39,283	343	392,290	72,048	157,686
2056	36,831	147,069	2,670	56,761	95	23,298	21,779	52,821	551	341,875	106,102	238,681	7,941	80,917	38,423	679	472,743	-130,868	26,818
2057	90,793	224,264	21,068	55,295	-154	21,845	24,441	49,035	646	487,234	65,973	165,661	9,938	84,360	33,920	577	360,429	126,805	153,623
2058	52,753	210,261	21,648	49,157	-47	20,902	25,177	45,760	693	426,304	102,872	186,965	11,560	76,032	31,398	360	409,186	17,118	170,741
2059	55,493	185,645	2,813	47,799	50	22,262	24,592	41,024	692	380,371	112,582	210,579	11,744	71,655	30,711	267	437,537	-57,167	113,575
2060	71,446	259,435	33,131	169,412	-245	22,779	24,984	74,440	368	655,750	86,852	151,751	12,930	71,886	55,905	2,401	381,724	274,026	387,600
2061	38,171	192,124	6,136	153,248	-20	22,452	24,908	97,179	183	534,381	124,456	191,285	13,642	72,390	65,940	2,627	470,339	64,042	451,643
2062	49,169	176,245	5,625	69,457	2	23,208	24,790	85,199	350	434,044	112,752	189,086	12,264	73,724	55,947	1,376	445,149	-11,105	440,537
2063	42,471	158,888	3,521	48,138	64	23,553	23,415	69,670	505	370,226	107,455	202,548	11,330	73,554	48,046	631	443,563	-73,337	367,200
2064	48,718	165,099	2,027	42,827	99	24,128	21,994	59,678	499	365,069	95,867	215,598	10,575	75,626	46,570	355	444,592	-79,523	287,677
2065	57,479	180,703	2,160	49,382	67	23,008	22,187	53,423	491	388,900	93,069	207,440	10,494	80,706	44,227	327	436,262	-47,362	240,315

Tracy Subbasin C2VSIM Results - Projected w/ Climate Change

AVERAGES	Inflow (AF)										Outflow (AF)							Change in Storage (AF)	Cumulative Change in Storage (AF)
	65,375	176,342	6,458	73,972	1,552	23,707	24,599	58,720	516	431,242	85,610	221,393	9,381	69,507	43,400	963	430,254		
Water Year	Streams In	Deep Percolation	Small Watersheds In	Diversion Recharge	Subsidence (inflow-outflow)	Subsurface East Contra Costa	Subsurface Eastern San Joaquin	Subsurface Delta Mendota	Subsurface Other	TOTAL IN	Streams Out	Pumping	Subsurface East Contra Costa	Subsurface Eastern San Joaquin	Subsurface Delta Mendota	Subsurface Other	TOTAL OUT		
2016	61,659	155,637	22,350	56,794	11,363	24,313	20,366	55,437	600	408,519	87,128	254,112	7,349	60,470	49,831	865	459,755	-51,235	-51,235
2017	52,441	156,413	649	55,429	5,069	24,272	20,990	54,644	602	370,508	82,741	210,235	7,537	62,137	46,977	645	410,271	-39,763	-90,998
2018	93,284	198,326	4,977	49,202	2,224	21,268	25,868	45,883	616	441,646	70,196	187,441	9,084	67,643	39,818	413	374,594	67,053	-23,946
2019	44,748	141,457	1,721	47,827	3,928	22,309	22,245	42,061	621	326,917	96,139	215,946	9,085	63,742	35,792	352	421,056	-94,139	-118,085
2020	79,818	245,921	13,460	169,654	497	20,898	25,984	69,856	276	626,364	82,395	182,100	10,790	68,016	59,521	2,529	405,352	221,012	102,927
2021	46,738	162,220	1,698	152,372	1,990	24,399	24,075	90,266	141	503,898	99,220	255,733	9,783	64,623	66,598	2,698	498,657	5,241	108,169
2022	50,548	140,700	1,129	68,413	6,265	26,979	23,248	80,545	343	398,171	89,094	259,601	8,053	66,100	56,107	1,452	480,407	-82,236	25,933
2023	54,901	141,651	951	46,936	7,937	27,526	22,866	65,180	527	368,473	83,540	234,254	7,263	68,141	47,032	696	440,927	-72,454	-46,521
2024	85,560	164,914	1,086	42,810	3,696	25,095	54,273	42,810	520	402,206	68,764	234,783	7,266	71,461	43,554	412	426,240	-24,034	-70,555
2025	87,434	192,914	2,041	49,396	2,329	21,529	24,684	47,200	474	428,001	71,736	200,477	8,675	75,462	39,205	370	395,926	32,076	-38,480
2026	44,537	143,776	1,488	55,190	5,069	23,623	22,374	49,626	533	346,215	96,469	282,721	7,389	69,567	37,593	713	494,451	-148,236	-186,716
2027	92,760	179,472	1,871	55,469	531	21,604	25,679	45,553	612	423,551	70,323	194,067	8,418	72,106	33,343	600	378,858	44,693	-142,023
2028	60,006	163,340	1,471	49,098	1,817	21,748	23,736	40,950	638	362,804	93,027	214,806	9,802	68,647	30,637	395	417,314	-54,509	-196,533
2029	96,660	196,153	1,395	47,825	2,506	20,344	25,982	35,767	647	427,277	62,564	205,236	10,153	70,127	27,707	324	376,111	51,166	-145,367
2030	42,990	158,393	1,153	168,044	944	22,803	24,541	65,522	315	484,706	100,000	240,325	10,070	63,089	53,260	2,452	469,196	15,510	-129,856
2031	96,326	220,492	15,396	153,307	-158	21,932	28,422	87,346	182	623,244	68,237	202,810	9,763	71,803	59,870	2,656	415,138	208,106	78,250
2032	57,881	170,638	2,713	170,638	30	21,994	26,546	55,506	350	427,497	95,506	232,162	9,826	68,704	50,559	1,369	458,126	-30,629	47,621
2033	60,868	165,545	2,914	48,210	6	23,026	25,369	62,749	513	389,200	92,759	207,819	9,109	67,701	42,136	622	420,145	-30,945	16,676
2034	62,579	132,768	1,382	132,768	406	24,185	23,035	53,288	534	341,111	75,217	251,849	8,028	66,433	40,873	348	442,748	-101,637	-84,961
2035	83,850	196,780	2,148	49,466	1,395	22,420	25,650	46,102	528	428,339	74,725	217,861	8,482	72,325	37,825	293	411,511	16,828	-68,133
2036	63,653	178,982	2,411	56,824	22	23,304	24,485	47,336	602	397,619	87,363	248,211	7,902	70,240	35,324	601	449,642	-52,024	-120,157
2037	76,301	163,057	3,433	55,447	-29	22,853	24,979	44,981	681	391,703	77,220	204,072	8,731	66,971	31,997	523	389,515	2,188	-117,969
2038	49,407	131,348	1,379	48,818	450	24,825	22,744	41,888	745	321,605	93,590	230,937	9,013	64,465	30,262	315	428,583	-106,977	-224,946
2039	52,093	119,617	1,142	42,733	16,594	28,170	38,026	38,026	736	321,191	81,069	283,373	7,781	64,369	28,663	277	465,532	-144,341	-369,287
2040	98,754	199,848	3,360	169,673	2,246	24,963	27,167	66,424	409	592,843	62,533	201,081	8,142	68,552	52,630	2,400	395,338	197,505	-171,782
2041	69,604	186,002	2,977	153,395	-13	23,626	26,364	87,554	237	549,743	85,002	231,194	9,327	71,224	60,695	2,635	460,077	89,666	-82,115
2042	92,611	203,158	14,759	69,466	-140	21,666	27,027	77,726	361	506,636	63,387	188,625	9,766	75,342	49,269	1,361	387,751	118,885	36,770
2043	57,629	153,641	2,475	48,328	79	22,382	24,399	63,546	534	373,013	88,047	238,598	9,272	71,375	42,368	613	450,273	-77,260	-40,490
2044	84,682	232,846	11,845	42,633	-140	21,181	26,923	53,010	519	473,498	71,250	175,132	10,993	72,726	38,270	328	368,698	104,800	64,309
2045	60,877	271,840	51,654	49,324	-142	23,777	24,825	45,718	540	528,412	89,838	167,655	11,902	75,566	33,786	251	378,998	149,414	213,723
2046	37,054	158,328	8,182	56,967	148	26,164	25,572	49,923	638	362,977	120,940	286,119	10,055	65,813	36,068	626	519,621	-156,644	57,079
2047	52,580	148,463	2,217	55,610	24	26,006	22,599	49,114	725	357,338	94,346	210,995	9,466	64,102	35,337	493	414,738	-57,400	-321
2048	79,057	210,740	9,174	49,138	-94	24,114	26,268	43,571	767	442,734	81,018	185,011	12,009	68,990	31,961	289	379,277	63,457	63,135
2049	38,892	145,600	2,675	47,876	132	24,732	24,744	40,143	766	325,561	111,925	232,563	11,359	64,121	30,823	242	451,033	-125,472	-62,337
2050	49,004	161,268	1,788	169,842	19	26,633	23,329	70,380	411	502,674	93,243	231,619	10,203	64,137	57,212	2,341	458,754	43,920	-18,417
2051	53,699	160,655	1,600	153,380	-14	27,028	23,435	90,565	246	510,595	86,431	221,813	9,401	70,268	64,075	2,563	454,550	56,046	37,629
2052	54,188	155,339	1,438	69,543	84	26,770	23,589	80,472	406	411,828	85,346	226,212	8,617	74,986	53,172	1,361	449,694	-37,865	-236
2053	68,295	156,561	1,437	47,069	210	27,172	24,763	65,227	588	391,322	94,217	236,084	7,918	78,443	44,676	626	461,964	-70,642	-70,878
2054	66,260	164,734	1,596	42,790	135	25,914	23,645	54,872	564	380,511	79,429	223,565	7,698	76,183	41,577	363	428,815	-48,305	-119,183
2055	90,977	220,524	14,525	49,374	231	22,586	24,840	49,596	541	473,194	59,785	207,396	8,458	82,193	37,991	320	396,143	77,051	-42,132
2056	43,123	145,817	2,668	56,854	127	23,892	22,895	50,980	590	346,947	96,765	259,378	7,225	75,029	36,962	658	476,017	-129,070	-171,202
2057	102,647	217,851	21,081	55,381	-154	22,013	25,931	46,841	664	492,255	57,657	182,189	9,123	79,176	32,357	562	361,063	131,193	-40,009
2058	59,676	212,128	21,638	49,252	-46	21,189	26,432	43,516	730	434,514	93,846	206,799	11,090	70,986	29,986	346	413,054	21,460	-18,549
2059	62,637	182,592	2,813	47,887	39	22,741	25,947	39,059	736	384,451	102,813	227,419	11,390	66,863	29,375	253	438,113	-53,662	-72,212
2060	80,766	254,240	33,135	169,504	-246	23,119	26,375	71,670	383	658,947	77,115	170,323	12,622	67,026	54,295	2,399	383,781	275,166	202,955
2061	43,453	190,546	6,143	153,344	-23	22,384	25,885	94,421	207	536,361	114,727	210,308	12,893	66,909	64,186	2,597	471,620	64,741	267,695
2062	55,729	173,240	5,649	69,552	10	23,274	25,891	82,731	354	436,429	102,911	212,495	11,239	67,969	54,331	1,361	450,305	-13,877	253,819
2063	48,224	156,568	3,526	48,222	66	23,509	24,395	67,441	513	372,466	98,047	222,613	10,430	67,789	46,355	619	445,853	-73,387	180,431
2064	55,484	160,242	2,028	42,917	112	24,145	23,193	57,891	522	366,533	86,720	238,089	9,554	70,167	45,017	341	449,889	-83,356	97,076
2065	65,827	173,812	2,161	49,480	59	22,970	23,319	51,407	527	389,561	84,139	225,422	9,564	75,053	42,722	307	437,207	-47,646	49,430