Table 1
Historical and Projected Transition Zone Population

City	Water Supplier	Zip Code	US Census		Projected Population					
			1990	2000	2005	2010	2015	2020	2025	Source
Adelanto	Adelanto	92301	8,517	18,130	18,986	22,278	26,096	30,980	35,224	1
Helendale	CSA 70C	92342	3,528	4,936	5,380	6,187	7,301	8,761	10,075	2
Oro Grande	CSA 42	92368	896	895	976	1,122	1,324	1,589	1,827	2
Total			12,941	23,961	25,342	29,587	34,721	41,330	47,126	
Growth Rates for Unincorporated Areas of San Bernardino County					9%	15%	18%	20%	15%	2

Sources:
1 SCAG (2003) Projected Values
2 SCAG (2003) Growth Rates for Unincorpoated Areas Applied to previous 5-year Period Population
http://www.scag.ca.gov/forecast/downloads/city_projections.xls

Table 2
Historical and Future Water Supply

Historical Water Supply Data

Water Year (ending)	Storm Flow	Base Flow (AF)	Long-Term Average Storm Flow (AF)	Ungaged Tributaries (AF)	Precip. (AF)	Subsurface Inflow (AF)	Sum of Ungaged Tributaries, Precip, and Subsurface Inflow (AF)	VVWRA Discharge (AF)	*Pumping Demand (AF)*	*Average Pumping Return Rate*	Pumping Return Flow From Pumping Demand (AF)	Total Water Supply (AF)
Column ->	A	B	C	D	E	F	=D+E+F	G	H	J	=H*J	=B+C+D+E+F+G+H*J
1930												
1931	211	22,249	33,107	320	96	4,891	5,307	0	7,400	40%	2,960	63,623
1932	60,632	23,558	33,107	320	96	4,891	5,307	0	7,475	40%	2,990	64,962
1933	211	23,699	33,107	320	96	4,891	5,307	0	7,625	40%	3,050	65,163
1934	1,787	22,043	33,107	320	96	4,891	5,307	0	7,725	40%	3,090	63,547
1935	13,051	20,759	33,107	320	96	4,891	5,307	0	8,025	40%	3,210	62,383
1936	291	20,129	33,107	320	96	4,891	5,307	0	8,450	40%	3,380	61,923
1937	127,990	22,263	33,107	320	96	4,891	5,307	0	8,500	40%	3,400	64,077
1938	163,101	24,979	33,107	320	96	4,891	5,307	0	8,650	40%	3,460	66,853
1939	3,929	25,751	33,107	320	96	4,891	5,307	0	8,875	40%	3,550	67,715
1940	1,411	26,069	33,107	320	96	4,891	5,307	0	9,125	40%	3,650	68,133
1941	115,056	28,294	33,107	320	96	4,891	5,307	0	9,325	40%	3,730	70,438
1942	707	25,083	33,107	320	96	4,891	5,307	0	9,475	40%	3,790	67,287
1943	103,636	23,651	33,107	320	96	4,891	5,307	0	9,475	40%	3,790	65,855
1944	52,498	25,152	33,107	320	96	4,891	5,307	0	9,575	40%	3,830	67,396
1945	31,377	23,263	33,107	320	96	4,891	5,307	0	10,350	40%	4,140	65,817
1946	21,108	22,102	33,107	320	96	4,891	5,307	0	10,850	40%	4,340	64,856
1947	13,446	23,754	33,107	320	96	4,891	5,307	0	13,100	40%	5,240	67,408
1948	0	26,310	33,107	320	96	4,891	5,307	0	14,600	40%	5,840	70,564
1949	0	22,842	33,107	320	96	4,891	5,307	0	16,800	40%	6,720	67,976
1950	0	21,630	33,107	320	96	4,891	5,307	0	17,900	40%	7,160	67,204
1951	0	20,819	33,107	320	96	4,891	5,307	0	26,575	40%	10,630	69,863
1952	44,038	22,755	33,107	320	96	4,891	5,307	0	25,623	40%	10,249	71,418
1953	0	21,800	33,107	320	96	4,891	5,307	0	24,946	40%	9,978	70,192
1954	8,983	22,247	33,107	320	96	4,891	5,307	0	25,508	40%	10,203	70,864
1955	0	22,520	33,107	320	96	4,891	5,307	0	30,291	40%	12,116	73,050
1956	976	20,767	33,107	320	96	4,891	5,307	0	26,283	40%	10,513	69,694
1957	644	19,915	33,107	320	96	4,891	5,307	0	26,194	40%	10,478	68,807
1958	77,552	20,492	33,107	320	96	4,891	5,307	0	26,324	40%	10,530	69,436
1959	975	19,346	33,107	320	96	4,891	5,307	0	29,067	40%	11,627	69,387
1960	0	19,274	33,107	320	96	4,891	5,307	0	29,044	40%	11,618	69,306
1961	1,309	17,604	33,107	320	96	4,891	5,307	0	29,306	40%	11,722	67,740
1962	10,011	16,750	33,107	320	96	4,891	5,307	0	26,363	40%	10,545	65,709
1963	583	16,443	33,107	320	96	4,891	5,307	0	25,045	40%	10,018	64,875
1964	252	16,838	33,107	320	96	4,891	5,307	0	28,627	40%	11,451	66,703
1965	854	15,948	33,107	320	96	4,891	5,307	0	29,789	40%	11,916	66,278
1966	34,940	16,073	33,107	320	96	4,891	5,307	0	30,112	40%	12,045	66,532
1967	56,605	17,615	33,107	320	96	4,891	5,307	0	30,388	40%	12,155	68,184
1968	169	18,625	33,107	320	96	4,891	5,307	0	31,880	40%	12,752	69,791
1969	267,385	23,745	33,107	320	96	4,891	5,307	0	25,801	40%	10,320	72,479
1970	0	23,115	33,107	320	96	4,891	5,307	0	21,511	40%	8,604	70,133
1971	0	20,437	33,107	320	96	4,891	5,307	0	16,936	40%	6,774	65,625
1972	6,861	15,943	33,107	320	96	4,891	5,307	0	19,772	40%	7,909	62,266
1973	16,619	18,095	33,107	320	96	4,891	5,307	0	23,268	40%	9,307	65,816
1974	459	17,287	33,107	320	96	4,891	5,307	0	22,926	40%	9,170	64,871
1975	0	16,619	33,107	320	96	4,891	5,307	0	22,582	40%	9,033	64,066
1976	1,432	18,750	33,107	320	96	4,891	5,307	0	22,239	40%	8,896	66,060
1977	664	27,546	33,107	320	96	4,891	5,307	0	21,896	40%	8,758	74,718
1978	187,615	21,509	33,107	320	96	4,891	5,307	0	21,553	40%	8,621	68,544
1979	47,830	24,510	33,107	320	96	4,891	5,307	0	21,210	40%	8,484	71,408
1980	205,336	24,294	33,107	320	96	4,891	5,307	0	20,867	40%	8,347	71,055
1981	0	23,147	33,107	320	96	4,891	5,307	266	20,524	40%	8,209	70,036
1982	14,929	20,421	33,107	320	96	4,891	5,307	3,116	20,180	40%	8,072	70,023
1983	164,955	24,195	33,107	320	96	4,891	5,307	3,467	19,837	40%	7,935	74,011
1984	2,708	24,312	33,107	320	96	4,891	5,307	4,012	19,494	40%	7,798	74,536
1985	895	20,161	33,107	320	96	4,891	5,307	4,167	19,151	40%	7,660	70,402
1986	2,174	14,790	33,107	320	96	4,891	5,307	4,286	18,807	40%	7,523	65,013
1987	277	14,191	33,107	320	96	4,891	5,307	4,601	22,391	40%	8,956	66,162
1988	865	15,268	33,107	320	96	4,891	5,307	5,484	22,952	40%	9,181	68,347
1989	0	11,487	33,107	320	96	4,891	5,307	6,330	22,762	40%	9,105	65,336
1990	891	8,027	33,107	320	96	4,891	5,307	6,941	22,182	40%	8,873	62,255

Table 2
Historical and Future Water Supply

Historical Water Supply Data

Water Year (ending)	Storm Flow	Base Flow (AF)	Long-Term Average Storm Flow (AF)	Ungaged Tributaries (AF)	Precip. (AF)	Subsurface Inflow (AF)	Sum of Ungaged Tributaries, Precip, and Subsurface Inflow (AF)	VVWRA Discharge (AF)	*Pumping Demand (AF)*	*Average Pumping Return Rate*	Pumping Return Flow From Pumping Demand (AF)	Total Water Supply (AF)
Column ->	A	B	C	D	E	F	=D+E+F	G	H	J	=H*J	=B+C+D+E+F+G+H*J
1991	1,937	9,023	33,107	320	96	4,891	5,307	7,276	21,188	40%	8,475	63,188
1992	15,925	8,635	33,107	320	96	4,891	5,307	7,387	21,723	40%	8,689	63,125
1993	275,693	9,707	33,107	320	96	4,891	5,307	7,331	20,966	40%	8,386	63,838
1994	150	10,760	33,107	320	96	4,891	5,307	7,753	13,379	40%	5,352	62,279
1995	105,807	7,472	33,107	320	96	4,891	5,307	7,949	12,429	40%	4,972	58,807
1996	4,630	6,552	33,107	320	96	4,891	5,307	8,475	16,798	40%	6,719	60,160
1997	1,592	6,619	33,107	320	96	4,891	5,307	8,705	16,399	40%	6,560	60,298
1998	73,355	10,162	33,107	320	96	4,891	5,307	9,353	13,353	40%	5,341	63,270
1999	328	8,970	33,107	320	96	4,891	5,307	8,744	14,851	40%	5,940	62,068
2000	668	6,322	33,107	320	96	4,891	5,307	9,006	15,704	40%	6,282	60,024
2001	273	5,345	33,107	320	96	4,891	5,307	9,286	14,188	40%	5,675	58,720

Projected Future Water Supply Data

Water Year (ending)	Base Flow (AF)		Long-Term Average Storm Flow (AF)		Ungaged Tributaries (AF)	Precip. (AF)	Subsurface Inflow (AF)	Sum of Inflow Constants (Ungaged Tributaries, Precip, and Subsurface Inflow) (AF)	VVWRA Discharge (AF)		*Pumping Demand (AF)*	*Average Pumping Return Rate*	Pumping Return Flow From Pumping Demand (AF)	Total Water Supply (AF) With Out Base Flow Recovery		Total Water Supply (AF) With Base Flow Recovery	
	With Out Recovery	With Recovery Beginning in WY Ending 2006	With Out Base Flow Recovery	With Base Flow Recovery Beginning in WY Ending 2006					Future Discharge Limited to 8.66 MGD (9,700 AFY)	Future Discharge Tied to Population Growth				With Future VVWRA Discharge Limited	With Future VVWRA Discharge Tied to Growth	With Future VVWRA Discharge Limited	With Future VVWRA Discharge Tied to Growth
Column ->	B1	B2	C1	C2	D	E	F	=D+E+F	G1	G2	H	J	=H*J	=B1+C1+D+E+F+G1+H*J	=B1+C1+D+E+F+G2+H*J	=B2+C2+D+E+F+G1+H*J	=B2+C+D+E+F+G2+H*J
2002	4,429	4,429	32,996	33,107	320	96	4,891	5,307	9,700	9,894	15,886	40%	6,354	58,786	58,980	58,897	59,091
2003	3,513	3,513	32,885	33,107	320	96	4,891	5,307	9,700	10,502	16,530	39%	6,428	57,833	58,635	58,055	58,857
2004	2,597	2,597	32,774	33,107	320	96	4,891	5,307	9,700	11,109	17,174	38%	6,488	56,866	58,275	57,199	58,608
2005	1,681	1,681	32,663	33,107	320	96	4,891	5,307	9,700	11,717	17,819	37%	6,534	55,885	57,902	56,329	58,346
2006	1,628	2,544	32,552	33,107	320	96	4,891	5,307	9,700	12,325	18,463	36%	6,565	55,751	58,376	57,222	59,847
2007	1,622	3,460	32,441	33,107	320	96	4,891	5,307	9,700	12,933	19,108	34%	6,582	55,652	58,884	58,155	61,388
2008	1,617	4,376	32,330	33,107	320	96	4,891	5,307	9,700	13,541	19,752	33%	6,584	55,538	59,378	59,074	62,914
2009	1,611	5,292	32,219	33,107	320	96	4,891	5,307	9,700	14,148	20,396	32%	6,572	55,409	59,857	59,978	64,426
2010	1,605	6,208	32,108	33,107	320	96	4,891	5,307	9,700	14,756	21,166	31%	6,585	55,305	60,361	60,906	65,963
2011	1,600	7,124	31,997	33,107	320	96	4,891	5,307	9,700	15,364	21,935	30%	6,580	55,184	60,848	61,818	67,482
2012	1,594	8,040	31,886	33,107	320	96	4,891	5,307	9,700	15,972	22,704	29%	6,559	55,046	61,318	62,713	68,984
2013	1,589	8,956	31,775	33,107	320	96	4,891	5,307	9,700	16,579	23,197	28%	6,444	54,814	61,694	63,513	70,393
2014	1,583	9,872	31,664	33,107	320	96	4,891	5,307	9,700	17,187	23,967	27%	6,391	54,645	62,133	64,377	71,864
2015	1,578	10,788	31,553	33,107	320	96	4,891	5,307	9,700	17,795	24,736	26%	6,321	54,459	62,554	65,223	73,318
2016	1,572	11,704	31,442	33,107	320	96	4,891	5,307	9,700	18,403	25,585	24%	6,254	54,275	62,978	66,072	74,774
2017	1,567	12,620	31,331	33,107	320	96	4,891	5,307	9,700	19,011	26,433	23%	6,168	54,072	63,383	66,901	76,212
2018	1,561	13,536	31,220	33,107	320	96	4,891	5,307	9,700	19,618	27,282	22%	6,063	53,851	63,769	67,712	77,631
2019	1,555	14,452	31,109	33,107	320	96	4,891	5,307	9,700	20,226	28,029	21%	5,917	53,589	64,115	68,483	79,009
2020	1,550	15,368	30,998	33,107	320	96	4,891	5,307	9,700	20,834	28,979	20%	5,796	53,351	64,485	69,277	80,411

Notes:

Assumptions used to estimate future supply are discussed in the report section titled "Groundwater Supply".

Table 3
Historical and Future Water Demand

USGS (2001) Estimated Production Values				Demand Values (Constants) from Water Budget					
Water Year (ending)	Agricultural (AF)	Municipal and Industrial (AF)	Other (AF)	Subsurface Outflow	Riparian Evapo transpiratio n	Surface Evaporat ion	Subtotal of Demand Constants	Outflow of Long-Term Average Storm Flow	Total (AF)
1931	7,100	300		4,600	6,000	1,159	11,759	34,762	53,921
1932	7,150	325		4,600	6,000	1,159	11,759	34,762	53,996
1933	7,300	325		4,600	6,000	1,159	11,759	34,762	54,146
1934	7,400	325		4,600	6,000	1,159	11,759	34,762	54,246
1935	7,700	325		4,600	6,000	1,159	11,759	34,762	54,546
1936	8,100	350		4,600	6,000	1,159	11,759	34,762	54,971
1937	8,150	350		4,600	6,000	1,159	11,759	34,762	55,021
1938	8,300	350		4,600	6,000	1,159	11,759	34,762	55,171
1939	8,500	375		4,600	6,000	1,159	11,759	34,762	55,396
1940	8,750	375		4,600	6,000	1,159	11,759	34,762	55,646
1941	8,950	375		4,600	6,000	1,159	11,759	34,762	55,846
1942	9,100	375		4,600	6,000	1,159	11,759	34,762	55,996
1943	9,100	375		4,600	6,000	1,159	11,759	34,762	55,996
1944	9,200	375		4,600	6,000	1,159	11,759	34,762	56,096
1945	9,950	400		4,600	6,000	1,159	11,759	34,762	56,871
1946	10,450	400		4,600	6,000	1,159	11,759	34,762	57,371
1947	12,500	600		4,600	6,000	1,159	11,759	34,762	59,621
1948	14,000	600		4,600	6,000	1,159	11,759	34,762	61,121
1949	16,200	600		4,600	6,000	1,159	11,759	34,762	63,321
1950	17,300	600		4,600	6,000	1,159	11,759	34,762	64,421
1951	24,926	1,248	401	4,600	6,000	1,159	11,759	34,762	73,096
1952	23,937	1,282	404	4,600	6,000	1,159	11,759	34,762	72,144
1953	22,890	1,352	704	4,600	6,000	1,159	11,759	34,762	71,467
1954	23,131	1,731	646	4,600	6,000	1,159	11,759	34,762	72,029
1955	27,112	2,268	911	4,600	6,000	1,159	11,759	34,762	76,812
1956	22,899	3,131	253	4,600	6,000	1,159	11,759	34,762	72,804
1957	22,911	2,868	415	4,600	6,000	1,159	11,759	34,762	72,715
1958	23,085	2,853	386	4,600	6,000	1,159	11,759	34,762	72,845
1959	24,915	3,817	335	4,600	6,000	1,159	11,759	34,762	75,588
1960	23,738	4,742	564	4,600	6,000	1,159	11,759	34,762	75,565
1961	24,111	4,454	741	4,600	6,000	1,159	11,759	34,762	75,827
1962	20,982	4,487	894	4,600	6,000	1,159	11,759	34,762	72,884
1963	20,089	4,010	946	4,600	6,000	1,159	11,759	34,762	71,566
1964	23,122	4,628	877	4,600	6,000	1,159	11,759	34,762	75,148
1965	24,280	4,904	605	4,600	6,000	1,159	11,759	34,762	76,310
1966	23,588	6,083	441	4,600	6,000	1,159	11,759	34,762	76,633
1967	24,075	5,956	357	4,600	6,000	1,159	11,759	34,762	76,909
1968	24,106	7,155	619	4,600	6,000	1,159	11,759	34,762	78,401
1969	19,418	5,794	589	4,600	6,000	1,159	11,759	34,762	72,322
1970	14,920	6,042	549	4,600	6,000	1,159	11,759	34,762	68,032
1971	10,317	6,209	410	4,600	6,000	1,159	11,759	34,762	63,457
1972	13,537	5,755	480	4,600	6,000	1,159	11,759	34,762	66,293
1973	17,135	5,724	409	4,600	6,000	1,159	11,759	34,762	69,789
1974	16,528	5,982	415	4,600	6,000	1,159	11,759	34,762	69,447
1975	15,921	6,241	420	4,600	6,000	1,159	11,759	34,762	69,104
1976	15,314	6,499	426	4,600	6,000	1,159	11,759	34,762	68,761
1977	14,707	6,757	432	4,600	6,000	1,159	11,759	34,762	68,417
1978	14,100	7,015	438	4,600	6,000	1,159	11,759	34,762	68,074
1979	13,493	7,273	443	4,600	6,000	1,159	11,759	34,762	67,731
1980	12,807	7,531	528	4,600	6,000	1,159	11,759	34,762	67,388
1981	12,238	7,789	496	4,600	6,000	1,159	11,759	34,762	67,045
1982	11,668	8,048	465	4,600	6,000	1,159	11,759	34,762	66,702
1983	11,099	8,306	433	4,600	6,000	1,159	11,759	34,762	66,359
1984	10,529	8,564	401	4,600	6,000	1,159	11,759	34,762	66,015
1985	9,960	8,822	369	4,600	6,000	1,159	11,759	34,762	65,672
1986	9,390	9,080	337	4,600	6,000	1,159	11,759	34,762	65,328
1987	11,617	10,437	337	4,600	6,000	1,159	11,759	34,762	68,912
1988	11,927	10,167	858	4,600	6,000	1,159	11,759	34,762	69,473
1989	12,819	9,572	371	4,600	6,000	1,159	11,759	34,762	69,283
1990	11,549	9,782	851	4,600	6,000	1,159	11,759	34,762	68,703
1991	11,317	8,943	928	4,600	6,000	1,159	11,759	34,762	67,709
1992	11,085	9,634	1,004	4,600	6,000	1,159	11,759	34,762	68,244
1993	10,853	9,033	1,081	4,600	6,000	1,159	11,759	34,762	67,487
1994	8,528	8,916	1,458	4,600	6,000	1,159	11,759	34,762	65,423
1995	7,599	8,339	1,353	4,600	6,000	1,159	11,759	34,762	63,812
1996	7,806	8,433	558	4,600	6,000	1,159	11,759	34,762	63,318
1997	7,773	8,041	583	4,600	6,000	1,159	11,759	34,762	62,918
1998	6,287	6,875	188	4,600	6,000	1,159	11,759	34,762	59,871
1999	6,196	8,337	291	4,600	6,000	1,159	11,759	34,762	61,345

Table 3 (Continued)
Historical and Future Water Demand

MWA Watermaster Verified Values (AF)										Demand Constants from Water Budget					
Water Year (ending)	Agriculture	Silver Lakes	Parks	Industrial	Municipal	Domestic (Minimal Producers)	Municipal and Domestic	Industrial, Municipal, and Domestic	Total Pumping Demand	Subsurface Outflow	Riparian Evapo transpiration	Surface Evaporation	Subtotal of Demand Constants	Outflow of Long-Term Average Storm Flow	Total of All Water Demands
1994	4,610	2,947	0	2,757	2,980	85	3,065	5,822	13,379	4,600	6,000	1,159	11,759	34,762	59,900
1995	3,997	2,826	0	3,077	2,464	65	2,529	5,606	12,429	4,600	6,000	1,159	11,759	34,762	58,950
1996	5,096	3,457	0	2,042	6,066	137	6,203	8,245	16,798	4,600	6,000	1,159	11,759	34,762	63,319
1997	5,175	3,372	0	1,783	5,946	123	6,069	7,852	16,399	4,600	6,000	1,159	11,759	34,762	62,920
1998	3,614	2,925	0	1,387	5,307	120	5,427	6,814	13,353	4,600	6,000	1,159	11,759	34,762	59,874
1999	3,074	3,458	12	2,405	5,802	112	5,914	8,319	14,851	4,600	6,000	1,159	11,759	34,762	61,384
2000	2,868	3,899	9	2,485	6,376	76	6,452	8,937	15,704	4,600	6,000	1,159	11,759	34,762	62,234
2001	2,120	3,416	0	1,856	6,726	70	6,796	8,652	14,188	4,600	6,000	1,159	11,759	34,762	60,709
Projected Future Demand Data															
2002	3,215	3,421		2,349			6,900	9,250	15,886	4,600	6,000	1,159	11,759	34,646	62,290
2003	3,215	3,421		2,842			7,052	9,894	16,530	4,600	6,000	1,159	11,759	34,529	62,818
2004	3,215	3,421		3,335			7,203	10,538	17,174	4,600	6,000	1,159	11,759	34,413	63,346
2005	3,215	3,421		3,828			7,355	11,183	17,819	4,600	6,000	1,159	11,759	34,296	63,874
2006	3,215	3,421		4,321			7,506	11,827	18,463	4,600	6,000	1,159	11,759	34,180	64,402
2007	3,215	3,421		4,814			7,657	12,472	19,108	4,600	6,000	1,159	11,759	34,063	64,930
2008	3,215	3,421		5,307			7,809	13,116	19,752	4,600	6,000	1,159	11,759	33,947	65,458
2009	3,215	3,421		5,800			7,960	13,760	20,396	4,600	6,000	1,159	11,759	33,830	65,985
2010	3,215	3,421		6,293			8,236	14,530	21,166	4,600	6,000	1,159	11,759	33,713	66,638
2011	3,215	3,421		6,787			8,512	15,299	21,935	4,600	6,000	1,159	11,759	33,597	67,291
2012	3,215	3,421		7,280			8,789	16,068	22,704	4,600	6,000	1,159	11,759	33,480	67,944
2013	3,215	3,421		7,773			8,789	16,561	23,197	4,600	6,000	1,159	11,759	33,364	68,320
2014	3,215	3,421		8,266			9,065	17,331	23,967	4,600	6,000	1,159	11,759	33,247	68,973
2015	3,215	3,421		8,759			9,341	18,100	24,736	4,600	6,000	1,159	11,759	33,131	69,626
2016	3,215	3,421		9,252			9,697	18,949	25,585	4,600	6,000	1,159	11,759	33,014	70,358
2017	3,215	3,421		9,745			10,052	19,797	26,433	4,600	6,000	1,159	11,759	32,898	71,090
2018	3,215	3,421		10,238			10,408	20,646	27,282	4,600	6,000	1,159	11,759	32,781	71,822
2019	3,215	3,421		10,731			10,662	21,393	28,029	4,600	6,000	1,159	11,759	32,664	72,452
2020	3,215	3,421		11,224			11,119	22,343	28,979	4,600	6,000	1,159	11,759	32,548	73,286

Notes:

Assumptions used to estimate future demand are discussed in the report section titled "Groundwater Demand".

Table 4
Projected Import Water Market
Based On Total Water Supply and Demand

Water Year (ending)	Water Supply (AF)				Water Demand (AF)	Import Water Market (AF)			
	With Out Base Flow Recovery		With Base Flow Recovery			With Out Base Flow Recovery		With Base Flow Recovery	
	With Future VVWRA Discharge Limited	With Future VVWRA Discharge Tied to Growth	With Future VVWRA Discharge Tied to Growth	With Future VVWRA Discharge Tied to Growth		With Future VVWRA Discharge Limited	With Future VVWRA Discharge Tied to Growth	With Future VVWRA Discharge Limited	With Future VVWRA Discharge Tied to Growth
Column ->	A	B	C	D	E	= E - A	=E - B	=E - C	=E - D
2002	58,786	58,980	58,897	59,091	62,290	3,504	3,310	3,393	3,199
2003	57,833	58,635	58,055	58,857	62,818	4,985	4,183	4,763	3,961
2004	56,866	58,275	57,199	58,608	63,346	6,480	5,071	6,147	4,738
2005	55,885	57,902	56,329	58,346	63,874	7,989	5,972	7,545	5,528
2006	55,751	58,376	57,222	59,847	64,402	8,651	6,026	7,180	4,555
2007	55,652	58,884	58,155	61,388	64,930	9,278	6,045	6,775	3,542
2008	55,538	59,378	59,074	62,914	65,458	9,920	6,079	6,384	2,543
2009	55,409	59,857	59,978	64,426	65,985	10,576	6,128	6,008	1,559
2010	55,305	60,361	60,906	65,963	66,638	11,333	6,277	5,732	676
2011	55,184	60,848	61,818	67,482	67,291	12,106	6,443	5,473	None
2012	55,046	61,318	62,713	68,984	67,944	12,897	6,626	5,231	None
2013	54,814	61,694	63,513	70,393	68,320	13,506	6,626	4,807	None
2014	54,645	62,133	64,377	71,864	68,973	14,328	6,840	4,596	None
2015	54,459	62,554	65,223	73,318	69,626	15,166	7,071	4,403	None
2016	54,275	62,978	66,072	74,774	70,358	16,083	7,380	4,286	None
2017	54,072	63,383	66,901	76,212	71,090	17,017	7,707	4,188	None
2018	53,851	63,769	67,712	77,631	71,822	17,971	8,053	4,110	None
2019	53,589	64,115	68,483	79,009	72,452	18,864	8,337	3,970	None
2020	53,351	64,485	69,277	80,411	73,286	19,935	8,801	4,009	None

Note:

Data in columns A, B, C, and D are from Table 2. Data in column E are from Table 3.

If the import water market calculates to less than 0 AF, then the import market is shown as "None".

Table 5
Projected Import Water Market
Based On FPA Ramp Down and Pumping

Water Year (ending)	Base Annual Production (AF)	Hypothetical Scenarios of Production Ramp Down of Free Production Allowance (FPA)				Projected Future Pumping Demand (AFY)	Projected Import Water Market To Replace Pumping	
		5% Annual Ramp Down		Equal to FPA of 2003-2004 WY			5% Annual FPA Ramp Down to 60%	Hold FPA at 2003-2004 WY Rate
		(Percent)	(AF)	(Percent)	(AF)		(AF)	(AF)
2002	23,030	75%	17,273	70%	16,121	15,886	-	-
2003	23,030	70%	16,121	70%	16,121	16,530	409	-
2004	23,030	65%	14,970	70%	16,121	17,174	2,205	-
2005	23,030	60%	13,818	70%	16,121	17,819	4,001	1,698
2006	23,030	60%	13,818	70%	16,121	18,463	4,645	2,342
2007	23,030	60%	13,818	70%	16,121	19,108	5,290	2,987
2008	23,030	60%	13,818	70%	16,121	19,752	5,934	3,631
2009	23,030	60%	13,818	70%	16,121	20,396	6,578	4,275
2010	23,030	60%	13,818	70%	16,121	21,166	7,348	5,045
2011	23,030	60%	13,818	70%	16,121	21,935	8,117	5,814
2012	23,030	60%	13,818	70%	16,121	22,704	8,886	6,583
2013	23,030	60%	13,818	70%	16,121	23,197	9,379	7,076
2014	23,030	60%	13,818	70%	16,121	23,967	10,149	7,846
2015	23,030	60%	13,818	70%	16,121	24,736	10,918	8,615
2016	23,030	60%	13,818	70%	16,121	25,585	11,767	9,464
2017	23,030	60%	13,818	70%	16,121	26,433	12,615	10,312
2018	23,030	60%	13,818	70%	16,121	27,282	13,464	11,161
2019	23,030	60%	13,818	70%	16,121	28,029	14,211	11,908
2020	23,030	60%	13,818	70%	16,121	28,979	15,161	12,858

Note:
Transition Zone Base Annual Production (BAP) as determined by the Judgment is 24,145 AFY. The BAP used in this table is 1,115 AFY less than the BAP determined by the Judgment because it excludes the BAP originally assigned by the Judgment to Fitzwater and Palisades Ranches, both of which have been let out of the Judgement by the California Supreme Court.