Table D.3-1
Historical Agricultural Water Requirements by Investigator and Calculation Parameters
Antelope Valley Area of Adjudication
(all values in acre-feet)

	Reported Values (Snyder, 1955)[1]		Calculated from DWR Crop Acreages, DWR Crop Consumptive Use Values, and Irrigation Efficiencies of 70 - 90%[3]									Calculated from County Crop Report Acreages and CIMIS-Derived Applied Crop Water Duties (DU = 80%; Irrigation Efficiencies = 59 to 80%)												
	Total	Current Estimate[2]	Alfalfa	Other Pasture	Grain and Hay	Field	Deciduous	Truck	Vineyard	Total	Current Estimate[4]	Alfalfa/ Pasture	Grain	Carrots	Onions	Orchard	Sugar Beets	Melons and Squash	Potatoes	Grapes	Subtotal	Unreported Farms	Total	Historical Total
Applied Water Duties (af/ac)	1.4 - 7.5		3.0 (7.2)	2.8 (7.7)	0.8 (2.6)	1.5 (4.5)	2.2 (5.6)	1.4 (4.0)	2.4 (4.2)			6.5	2.6	3.9	4.5	4.9	4.6	2.8	2.8	3.7		(5% of Subtotal)		
Year																								
1919	64,200	77,585																						77,585
1920	66,600	80,606																						80,606
1926	98,600	121,746																						121,746
1927	131,400	167,566																						167,566
1929	160,000	204,724																						204,724
1930	141,800	180,112																						180,112
1935	102,800	130,176																						130,176
1940	168,400	202,348																						202,348
1945	210,800	258,311	90,000		13,000		4,620	1,480		109,000	265,416													258,311
1946	226,000	273,960																						273,960
1947	261,400	296,757																						296,757
1948	304,800	322,497																						322,497
1949	322,900	327,685																						327,685
1950	350,500	347,676	207,000	311	3,733	333	11,000	156	0	222,533	485,310													347,676
1951	366,200	362,549																						362,549
1957			138,900	20,480	16,651	4,736	4,840	2,580	0	188,187	334,387													334,387
1961			177,066	10,520	5,589	4,907	4,431	4,220	206	206,959	357,362													357,362
1970												213,415	44,170	312	4,351	11,638	11,317	2,670	0	0	287,875	14,394	302,268	302,268
1971												197,971	66,522	349	4,557	11,994	11,833	3,069	0	0	296,315	14,816	311,131	311,131
1972			147,429	6,720	1,589	5,679	4,400	1,420	206	167,441	287,067	173,060	45,500	277	3,986	10,060	10,824	2,361	0	0	246,069	12,304	258,393	258,393
1973												162,859	50,993	280	4,737	10,075	9,570	2,337	0	0	240,850	12,043	252,893	252,893
1974												154,374	65,910	305	5,113	10,036	9,238	2,769	0	0	247,746	12,387	260,133	260,133
1975												150,713	75,166	325	7,404	9,482	10,124	3,051	0	0	256,264	12,813	269,078	269,078
1976												150,579	34,053	240	8,535	7,652	11,986	3,180	0	0	216,224	10,811	227,036	227,036
1977												177,138	52,785	4,857	15,605	8,414	21,734	3,502	1,400	0	285,434	14,272	299,706	299,706
1978												174,744	46,460	299	11,563	8,226	18,956	3,163	0	0	263,411	13,171	276,582	276,582
1979												167,031	29,589	600	10,972	8,006	13,642	2,326	224	0	232,390	11,620	244,010	244,010
1980												167,062	35,975	461	5,397	8,786	21,527	2,923	0	0	242,132	12,107	254,239	254,239
1981												148,782	33,271	552	7,530	6,931	16,157	3,011	0	0	216,234	10,812	227,046	227,046
1982												122,069	36,407	915	9,234	6,865	4,579	3,381	0	0	183,451	9,173	192,624	192,624
1983												106,651	41,226	211	10,898	6,639	4,438	3,250	0	0	173,313	8,666	181,979	181,979
1984												92,383	38,049	422	8,923	6,636	3,804	3,082	0	0	151,300	7,565	158,865	158,865
1985												81,381	32,817	441	9,133	6,219	2,344	2,789	0	0	135,123	6,756	141,879	141,879
1986			37,757	4,200	1,520	129	6,191	4,760	103	54,660	95,923	65,307	27,188	468	8,313	5,339	1,929	2,133	0	0	110,676	5,534	116,210	116,210
1987												65,033	8,240	455	7,880	5,385	1,384	1,438	0	0	89,815	4,491	94,306	94,306
1988												59,929	21,912	428	9,327	5,867	1,972	2,156	0	0	101,591	5,080	106,671	106,671
1989												46,580	3,311	416	8,455	5,591	1,157	755	0	0	66,365	3,318	69,683	69,683
1990												47,263	3,927	519	8,014	5,917	1,275	822	0	0	67,738	3,387	71,125	71,125
1991												44,604	3,281	195	8,647	5,717	1,293	988	0	0	64,725	3,236	67,961	67,961
1992												45,029	16,061	155	9,193	6,208	2,002	1,502	0	0	80,151	4,008	84,158	84,158
1993												45,076	6,353	179	8,417	7,395	1,645	1,239	0	0	70,305	3,515	73,820	73,820
1994												44,782	8,460	199	7,466	8,328	1,656	1,429	0	0	72,320	3,616	75,937	75,937
1995												46,103	12,360	3,389	10,848	6,577	552	1,540	0	0	81,369	4,068	85,438	85,438
1996												46,069	11,547	13,143	12,395	6,791	828	1,047	0	0	91,820	4,591	96,411	96,411
1997												48,695	10,198	21,473	12,683	6,916	345	1,480	0	55	101,845	5,092	106,937	106,937
1998												47,453	4,953	31,742	13,417	7,874	345	908	896	90	107,678	5,384	113,062	113,062
1999												54,713	3,562	31,832	12,176	6,568	345	797	1,344	96	113,452	5,673	119,125	119,125
2000												56,661	3,774	42,069	14,867	10,407	1,677	683	2,232	122	132,712	6,636	139,348	139,348
2001												50,750	4,222	36,992	13,466	10,500	1,219	684	1,674	179	119,686	5,983	125,649	125,649
2002												51,729	4,426	55,099	10,002	7,092	184	904	1,285	201	130,922	6,546	137,468	137,468
2003												47,197	4,020	45,950	17,000	6,910	368	604	1,862	232	124,143	6,207	130,350	130,350
2004												50,068	4,635	42,721	14,797	6,988	184	606	1,103	519	121,620	6,081	127,701	127,701
2005												45,982	6,627	38,645	15,113	6,677	184	645	1,316	397	115,787	5,789	121,576	121,576
2006												43,817	7,449	31,691	14,589	8,830	0	216	1,574	418	108,583	5,429	114,012	114,012
2007												44,182	9,028	29,024	11,718	8,807	0	774	1,106	402	105,040	5,252	110,292	110,292
2008												43,707	9,132	39,285	13,388	8,919	0	465	890	488	116,275	5,814	122,089	122,089
2009												43,974	9,067	32,429	14,707	8,919	0	465	0	488	110,070	5,503	115,573	115,573

1) Calculated from Reported Crop Acreages, Crop Consumptive Use Values, and Irrigation Efficiencies (41 - 51%)
2) Calculated from Snyder Crop Acreages and CIMIS-Derived Applied Crop Water Duties (DU=70%)
3) Crop Water Values shown are Consumptive Use Values (Irrigation Efficiencies not incorporated); Calculated Water Requirements utilize Irrigation Efficiencies of 100% (1945), 90% (1950), and 70% (all other survey years)
4) Calculated from DWR Crop Acreages and CIMIS-Derived Applied Crop Water Values (DU=70%) shown in parentheses in crop column headings

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