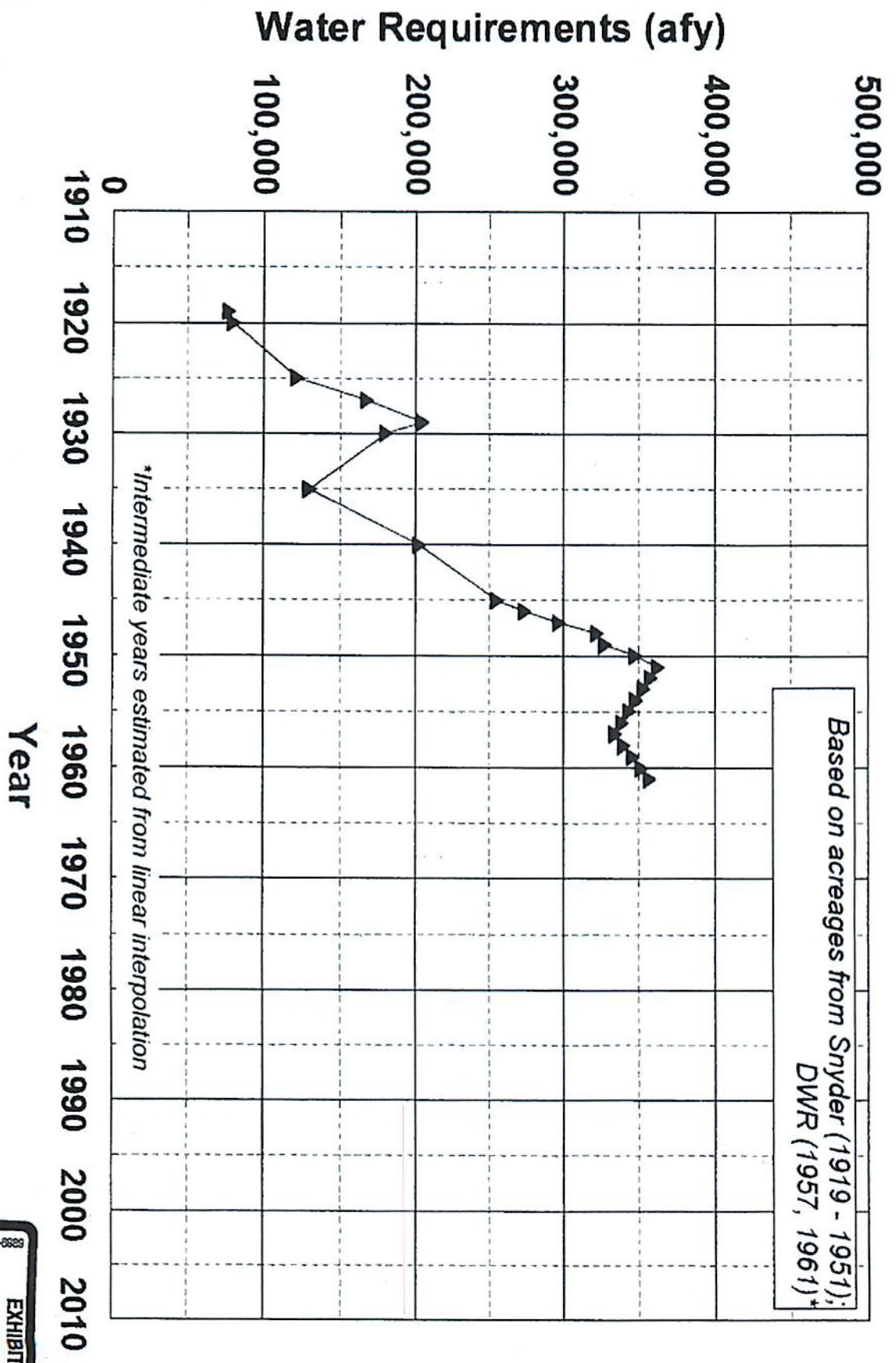


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# Estimated Early Historical Agricultural Water Requirements Antelope Valley Area of Adjudication



SL 1  
G-BELTHOUSE-1 A-J

PENGAD 800-631-9889  
EXHIBIT  
59  
Salmanic

A

# Estimated Historical Agricultural Water Requirements Antelope Valley Area of Adjudication

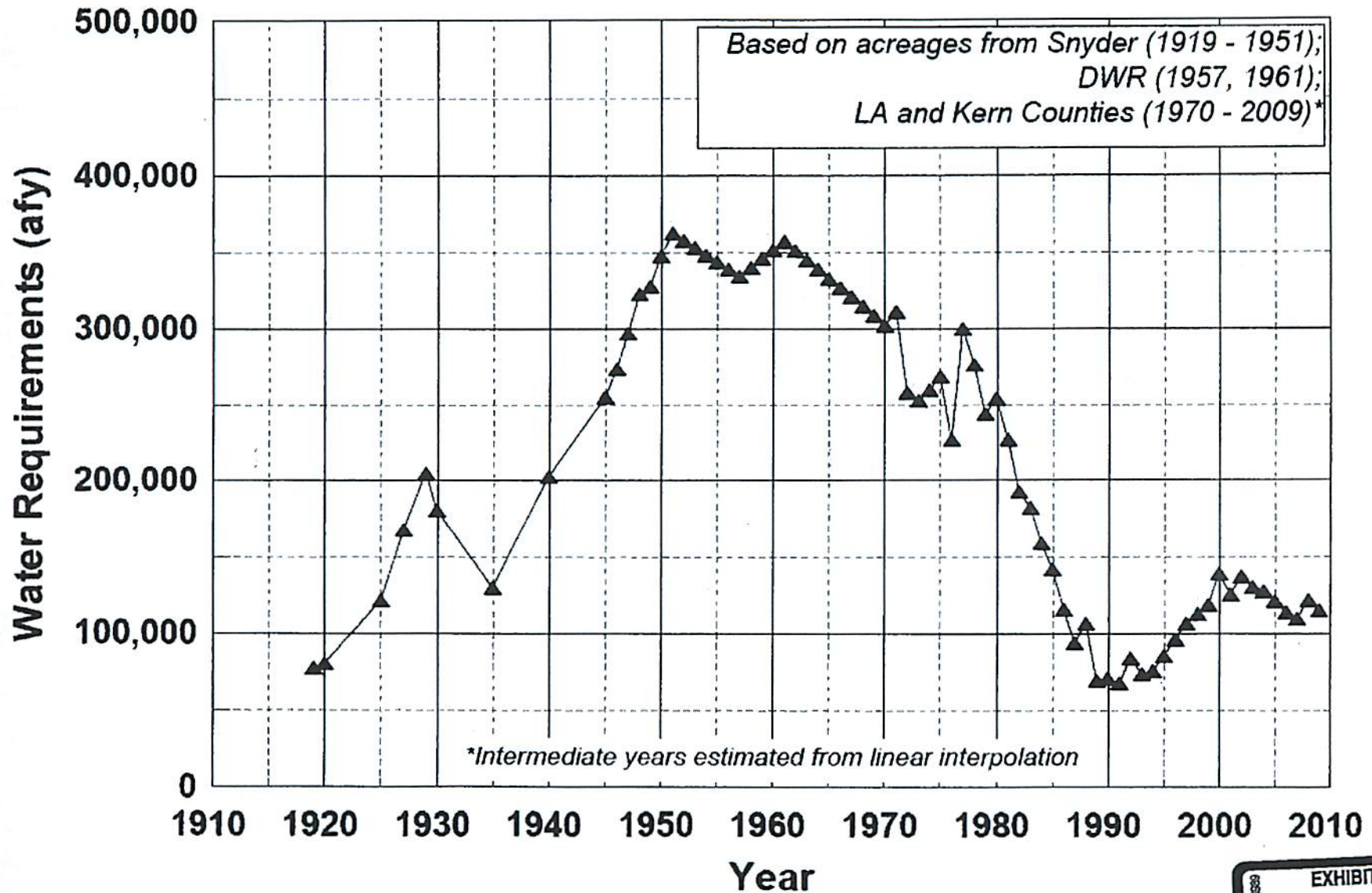


EXHIBIT  
*60*  
Scalmarini

# Tabulated Historical Agricultural Water Requirements Antelope Valley Area of Adjudication

Commodity Use Code	Crop Type	Reported by Snyder										Reported by California DWR										From County Crop Report Acreages and CMLIS-Derived Applied Water Values (DU = 80%; Irrigation Efficiency = 59 to 80%)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		1978		1979		1980		1981		1982		1983		1984		1985		1986		1987		1988		1989		1990		1991		1992		1993		1994		1995		1996		1997		1998		1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028		2029		2030																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		1A - 1A	1A - 1B	1A - 1C	1A - 1D	1A - 1E	1A - 1F	1A - 1G	1A - 1H	1A - 1I	1A - 1J	1A - 1K	1A - 1L	1A - 1M	1A - 1N	1A - 1O	1A - 1P	1A - 1Q	1A - 1R	1A - 1S	1A - 1T	1A - 1U	1A - 1V	1A - 1W	1A - 1X	1A - 1Y	1A - 1Z	1A - 1AA	1A - 1AB	1A - 1AC	1A - 1AD	1A - 1AE	1A - 1AF	1A - 1AG	1A - 1AH	1A - 1AI	1A - 1AJ	1A - 1AK	1A - 1AL	1A - 1AM	1A - 1AN	1A - 1AO	1A - 1AP	1A - 1AQ	1A - 1AR	1A - 1AS	1A - 1AT	1A - 1AU	1A - 1AV	1A - 1AW	1A - 1AX	1A - 1AY	1A - 1AZ	1A - 1BA	1A - 1BB	1A - 1BC	1A - 1BD	1A - 1BE	1A - 1BF	1A - 1BG	1A - 1BH	1A - 1BI	1A - 1BJ	1A - 1BK	1A - 1BL	1A - 1BM	1A - 1BN	1A - 1BO	1A - 1BP	1A - 1BQ	1A - 1BR	1A - 1BS	1A - 1BT	1A - 1BU	1A - 1BV	1A - 1BW	1A - 1BX	1A - 1BY	1A - 1BZ	1A - 1CA	1A - 1CB	1A - 1CC	1A - 1CD	1A - 1CE	1A - 1CF	1A - 1CG	1A - 1CH	1A - 1CI	1A - 1CJ	1A - 1CK	1A - 1CL	1A - 1CM	1A - 1CN	1A - 1CO	1A - 1CP	1A - 1CQ	1A - 1CR	1A - 1CS	1A - 1CT	1A - 1CU	1A - 1CV	1A - 1CW	1A - 1CX	1A - 1CY	1A - 1CZ	1A - 1DA	1A - 1DB	1A - 1DC	1A - 1DD	1A - 1DE	1A - 1DF	1A - 1DG	1A - 1DH	1A - 1DI	1A - 1DJ	1A - 1DK	1A - 1DL	1A - 1DM	1A - 1DN	1A - 1DO	1A - 1DP	1A - 1DQ	1A - 1DR	1A - 1DS	1A - 1DT	1A - 1DU	1A - 1DV	1A - 1DW	1A - 1DX	1A - 1DY	1A - 1DZ	1A - 1EA	1A - 1EB	1A - 1EC	1A - 1ED	1A - 1EE	1A - 1EF	1A - 1EG	1A - 1EH	1A - 1EI	1A - 1EJ	1A - 1EK	1A - 1EL	1A - 1EM	1A - 1EN	1A - 1EO	1A - 1EP	1A - 1EQ	1A - 1ER	1A - 1ES	1A - 1ET	1A - 1EU	1A - 1EV	1A - 1EW	1A - 1EX	1A - 1EY	1A - 1EZ	1A - 1FA	1A - 1FB	1A - 1FC	1A - 1FD	1A - 1FE	1A - 1FF	1A - 1FG	1A - 1FH	1A - 1FI	1A - 1FJ	1A - 1FK	1A - 1FL	1A - 1FM	1A - 1FN	1A - 1FO	1A - 1FP	1A - 1FQ	1A - 1FR	1A - 1FS	1A - 1FT	1A - 1FU	1A - 1FV	1A - 1FW	1A - 1FX	1A - 1FY	1A - 1FZ	1A - 1GA	1A - 1GB	1A - 1GC	1A - 1GD	1A - 1GE	1A - 1GF	1A - 1GG	1A - 1GH	1A - 1GI	1A - 1GJ	1A - 1GK	1A - 1GL	1A - 1GM	1A - 1GN	1A - 1GO	1A - 1GP	1A - 1GQ	1A - 1GR	1A - 1GS	1A - 1GT	1A - 1GU	1A - 1GV	1A - 1GW	1A - 1GX	1A - 1GY	1A - 1GZ	1A - 1HA	1A - 1HB	1A - 1HC	1A - 1HD	1A - 1HE	1A - 1HF	1A - 1HG	1A - 1HH	1A - 1HI	1A - 1HJ	1A - 1HK	1A - 1HL	1A - 1HM	1A - 1HN	1A - 1HO	1A - 1HP	1A - 1HQ	1A - 1HR	1A - 1HS	1A - 1HT	1A - 1HU	1A - 1HV	1A - 1HW	1A - 1HX	1A - 1HY	1A - 1HZ	1A - 1IA	1A - 1IB	1A - 1IC	1A - 1ID	1A - 1IE	1A - 1IF	1A - 1IG	1A - 1IH	1A - 1II	1A - 1IJ	1A - 1IK	1A - 1IL	1A - 1IM	1A - 1IN	1A - 1IO	1A - 1IP	1A - 1IQ	1A - 1IR	1A - 1IS	1A - 1IT	1A - 1IU	1A - 1IV	1A - 1IW	1A - 1IX	1A - 1IY	1A - 1IZ	1A - 1JA	1A - 1JB	1A - 1JC	1A - 1JD	1A - 1JE	1A - 1JF	1A - 1JG	1A - 1JH	1A - 1JI	1A - 1JJ	1A - 1JK	1A - 1JL	1A - 1JM	1A - 1JN	1A - 1JO	1A - 1JP	1A - 1JQ	1A - 1JR	1A - 1JS	1A - 1JT	1A - 1JU	1A - 1JV	1A - 1JW	1A - 1JX	1A - 1JY	1A - 1JZ	1A - 1KA	1A - 1KB	1A - 1KC	1A - 1KD	1A - 1KE	1A - 1KF	1A - 1KG	1A - 1KH	1A - 1KI	1A - 1KJ	1A - 1KK	1A - 1KL	1A - 1KM	1A - 1KN	1A - 1KO	1A - 1KP	1A - 1KQ	1A - 1KR	1A - 1KS	1A - 1KT	1A - 1KU	1A - 1KV	1A - 1KW	1A - 1KX	1A - 1KY	1A - 1KZ	1A - 1LA	1A - 1LB	1A - 1LC	1A - 1LD	1A - 1LE	1A - 1LF	1A - 1LG	1A - 1LH	1A - 1LI	1A - 1LJ	1A - 1LK	1A - 1LL	1A - 1LM	1A - 1LN	1A - 1LO	1A - 1LP	1A - 1LQ	1A - 1LR	1A - 1LS	1A - 1LT	1A - 1LU	1A - 1LV	1A - 1LW	1A - 1LX	1A - 1LY	1A - 1LZ	1A - 1MA	1A - 1MB	1A - 1MC	1A - 1MD	1A - 1ME	1A - 1MF	1A - 1MG	1A - 1MH	1A - 1MI	1A - 1MJ	1A - 1MK	1A - 1ML	1A - 1MM	1A - 1MN	1A - 1MO	1A - 1MP	1A - 1MQ	1A - 1MR	1A - 1MS	1A - 1MT	1A - 1MU	1A - 1MV	1A - 1MW	1A - 1MX	1A - 1MY	1A - 1MZ	1A - 1NA	1A - 1NB	1A - 1NC	1A - 1ND	1A - 1NE	1A - 1NF	1A - 1NG	1A - 1NH	1A - 1NI	1A - 1NJ	1A - 1NK	1A - 1NL	1A - 1NM	1A - 1NO	1A - 1NP	1A - 1NQ	1A - 1NR	1A - 1NS	1A - 1NT	1A - 1NU	1A - 1NV	1A - 1NW	1A - 1NX	1A - 1NY	1A - 1NZ	1A - 1OA	1A - 1OB	1A - 1OC	1A - 1OD	1A - 1OE	1A - 1OF	1A - 1OG	1A - 1OH	1A - 1OI	1A - 1OJ	1A - 1OK	1A - 1OL	1A - 1OM	1A - 1ON	1A - 1OO	1A - 1OP	1A - 1OQ	1A - 1OR	1A - 1OS	1A - 1OT	1A - 1OU	1A - 1OV	1A - 1OW	1A - 1OX	1A - 1OY	1A - 1OZ	1A - 1PA	1A - 1PB	1A - 1PC	1A - 1PD	1A - 1PE	1A - 1PF	1A - 1PG	1A - 1PH	1A - 1PI	1A - 1PJ	1A - 1PK	1A - 1PL	1A - 1PM	1A - 1PN	1A - 1PO	1A - 1PP	1A - 1PQ	1A - 1PR	1A - 1PS	1A - 1PT	1A - 1PU	1A - 1PV	1A - 1PW	1A - 1PX	1A - 1PY	1A - 1PZ	1A - 1QA	1A - 1QB	1A - 1QC	1A - 1QD	1A - 1QE	1A - 1QF	1A - 1QG	1A - 1QH	1A - 1QI	1A - 1QJ	1A - 1QK	1A - 1QL	1A - 1QM	1A - 1QN	1A - 1QO	1A - 1QP	1A - 1QQ	1A - 1QR	1A - 1QS	1A - 1QT	1A - 1QU	1A - 1QV	1A - 1QW	1A - 1QX	1A - 1QY	1A - 1QZ	1A - 1RA	1A - 1RB	1A - 1RC	1A - 1RD	1A - 1RE	1A - 1RF	1A - 1RG	1A - 1RH	1A - 1RI	1A - 1RJ	1A - 1RK	1A - 1RL	1A - 1RM	1A - 1RN	1A - 1RO	1A - 1RP	1A - 1RQ	1A - 1RR	1A - 1RS	1A - 1RT	1A - 1RU	1A - 1RV	1A - 1RW	1A - 1RX	1A - 1RY	1A - 1RZ	1A - 1SA	1A - 1SB	1A - 1SC	1A - 1SD	1A - 1SE	1A - 1SF	1A - 1SG	1A - 1SH	1A - 1SI	1A - 1SJ	1A - 1SK	1A - 1SL	1A - 1SM	1A - 1SN	1A - 1SO	1A - 1SP	1A - 1SQ	1A - 1SR	1A - 1SS	1A - 1ST	1A - 1SU	1A - 1SV	1A - 1SW	1A - 1SX	1A - 1SY	1A - 1SZ	1A - 1TA	1A - 1TB	1A - 1TC	1A - 1TD	1A - 1TE	1A - 1TF	1A - 1TG	1A - 1TH	1A - 1TI	1A - 1TJ	1A - 1TK	1A - 1TL	1A - 1TM	1A - 1TN	1A - 1TO	1A - 1TP	1A - 1TQ	1A - 1TR	1A - 1TS	1A - 1TT	1A - 1TU	1A - 1TV	1A - 1TW	1A - 1TX	1A - 1TY	1A - 1TZ	1A - 1UA	1A - 1UB	1A - 1UC	1A - 1UD	1A - 1UE	1A - 1UF	1A - 1UG	1A - 1UH	1A - 1UI	1A - 1UJ	1A - 1UK	1A - 1UL	1A - 1UM	1A - 1UN	1A - 1UO	1A - 1UP	1A - 1UQ	1A - 1UR	1A - 1US	1A - 1UT	1A - 1UU	1A - 1UV	1A - 1UW	1A - 1UX	1A - 1UY	1A - 1UZ	1A - 1VA	1A - 1VB	1A - 1VC	1A - 1VD	1A - 1VE	1A - 1VF	1A - 1VG	1A - 1VH	1A - 1VI	1A - 1VJ	1A - 1VK	1A - 1VL	1A - 1VM	1A - 1VN	1A - 1VO	1A - 1VP	1A - 1VQ	1A - 1VR	1A - 1VS	1A - 1VT	1A - 1VU	1A - 1VV	1A - 1VW	1A - 1VX	1A - 1VY	1A - 1VZ	1A - 1WA	1A - 1WB	1A - 1WC	1A - 1WD	1A - 1WE	1A - 1WF	1A - 1WG	1A - 1WH	1A - 1WI	1A - 1WJ	1A - 1WK	1A - 1WL	1A - 1WM	1A - 1WN	1A - 1WO	1A - 1WP	1A - 1WQ	1A - 1WR	1A - 1WS	1A - 1WT	1A - 1WU	1A - 1WV	1A - 1WW	1A - 1WX	1A - 1WY	1A - 1WZ	1A - 1XA	1A - 1XB	1A - 1XC	1A - 1XD	1A - 1XE	1A - 1XF	1A - 1XG	1A - 1XH	1A - 1XI	1A - 1XJ	1A - 1XK	1A - 1XL	1A - 1XM	1A - 1XN	1A - 1XO	1A - 1XP	1A - 1XQ	1A - 1XR	1A - 1XS	1A - 1XT	1A - 1XU	1A - 1XV	1A - 1XW	1A - 1XX	1A - 1XY	1A - 1XZ	1A - 1YA	1A - 1YB	1A - 1YC	1A - 1YD	1A - 1YE	1A - 1YF	1A - 1YG	1A - 1YH	1A - 1YI	1A - 1YJ	1A - 1YK	1A - 1YL	1A - 1YM	1A - 1YN	1A - 1YO	1A - 1YP	1A - 1YQ	1A - 1YR	1A - 1YS	1A - 1YT	1A - 1YU	1A - 1YV	1A - 1YW	1A - 1YX	1A - 1YY	1A - 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1A	1B	1C	1D	1E	1F	1G	1H	1I	1J	1K	1L	1M	1N	1O	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1AB	1AC	1AD	1AE	1AF	1AG	1AH	1AI	1AJ	1AK	1AL	1AM	1AN	1AO	1AP	1AQ	1AR	1AS	1AT	1AU	1AV	1AW	1AX	1AY	1AZ	1BA	1BB	1BC	1BD	1BE	1BF	1BG	1BH	1BI	1BJ	1BK	1BL	1BM	1BN	1BO	1BP	1BQ	1BR	1BS	1BT	1BU	1BV	1BW	1BX	1BY	1BZ	1CA	1CB	1CC	1CD	1CE	1CF	1CG	1CH	1CI	1CJ	1CK	1CL	1CM	1CN	1CO	1CP	1CQ	1CR	1CS	1CT	1CU	1CV	1CW	1CX	1CY	1CZ	1DA	1DB	1DC	1DD	1DE	1DF	1DG	1DH	1DI	1DJ	1DK	1DL	1DM	1DN	1DO	1DP	1DQ	1DR	1DS	1DT	1DU	1DV	1DW	1DX	1DY	1DZ	1EA	1EB	1EC	1ED	1EE	1EF	1EG	1EH	1EI	1EJ	1EK	1EL	1EM	1EN	1EO	1EP	1EQ	1ER	1ES	1ET	1EU	1EV	1EW	1EX	1EY	1EZ	1FA	1FB	1FC	1FD	1FE	1FF	1FG	1FH	1FI	1FJ	1FK	1FL	1FM	1FN	1FO	1FP	1FQ	1FR	1FS	1FT	1FU	1FV	1FW	1FX	1FY	1FZ	1GA	1GB	1GC	1GD	1GE	1GF	1GG	1GH	1GI	1GJ	1GK	1GL	1GM	1GN	1GO	1GP	1GQ	1GR	1GS	1GT	1GU	1GV	1GW	1GX	1GY	1GZ	1HA	1HB	1HC	1HD	1HE	1HF	1HG	1HI	1HJ	1HK	1HL	1HM	1HN	1HO	1HP	1HQ	1HR	1HS	1HT	1HU	1HV	1HW	1HX	1HY	1HZ	1IA	1IB	1IC	1ID	1IE	1IF	1IG	1IH	1II	1IJ	1IK	1IL	1IM	1IN	1IO	1IP	1IQ	1IR	1IS	1IT	1IU	1IV	1IW	1IX	1IY	1IZ	1JA	1JB	1JC	1JD	1JE	1JF	1JG	1JH	1JI	1JJ	1JK	1JL	1JM	1JN	1JO	1JP	1JQ	1JR	1JS	1JT	1JU	1JV	1JW	1JX	1JY	1JZ	1KA	1KB	1KC	1KD	1KE	1KF	1KG	1KH	1KI	1KJ	1KL	1KM	1KN	1KO	1KP	1KQ	1KR	1KS	1KT	1KU	1KV	1KW	1KX	1KY	1KZ	1LA	1LB	1LC	1LD	1LE	1LF	1LG	1LH	1LI	1LJ	1LK	1LM	1LN	1LO	1LP	1LQ	1LR	1LS	1LT	1LU	1LV	1LW	1LX	1LY	1LZ	1MA	1MB	1MC	1MD	1ME	1MF	1MG	1MH	1MI	1MJ	1MK	1ML	1MM	1MN	1MO	1MP	1MQ	1MR	1MS	1MT	1MU	1MV	1MW	1MX	1MY	1MZ	1NA	1NB</																																																																																																																																																																																																																																																																																																																																																		

# Historical M&I Water Requirements Antelope Valley Area of Adjudication

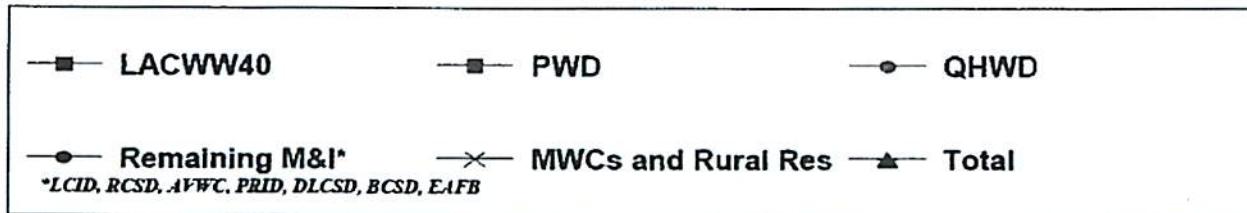
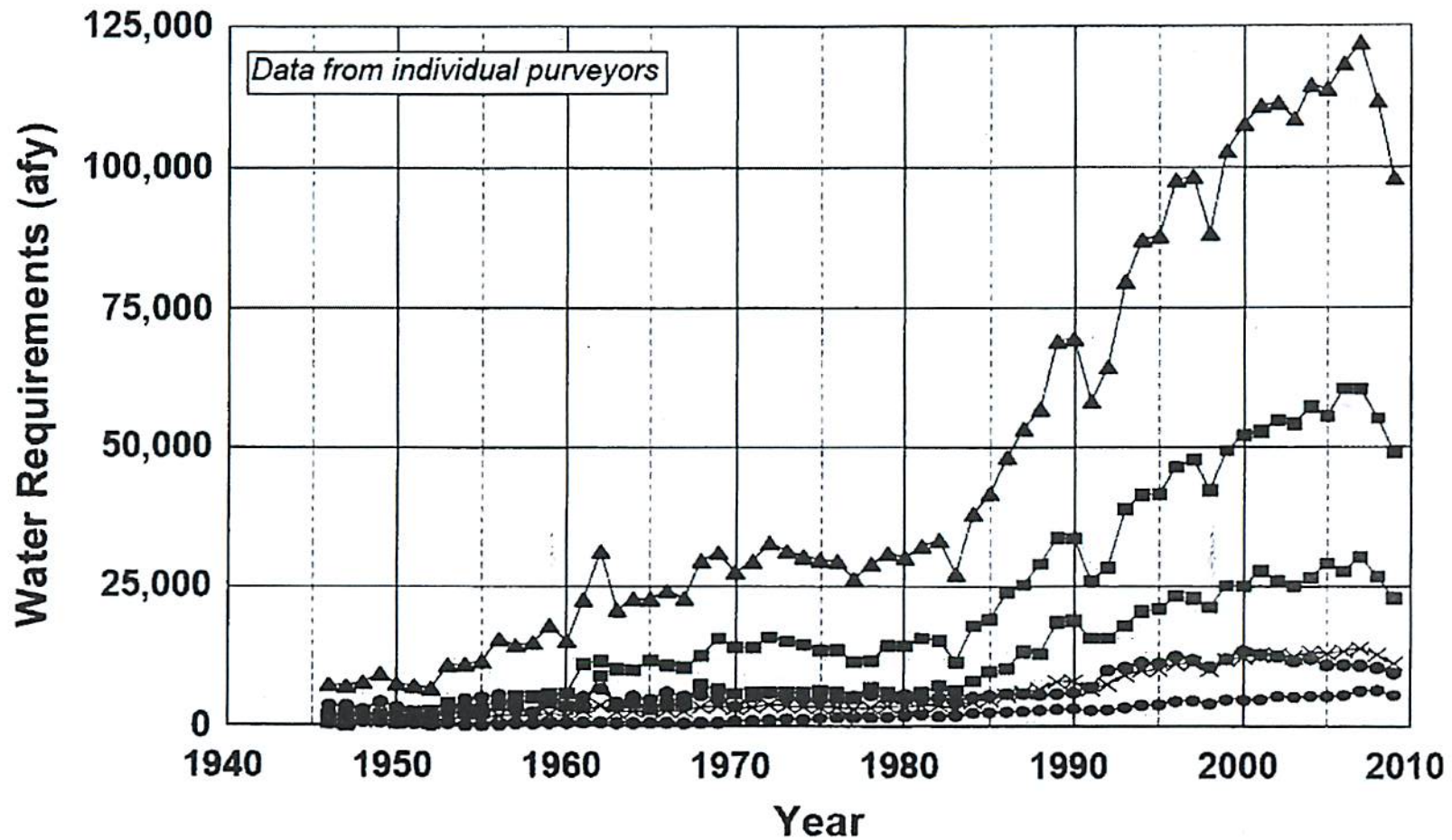


EXHIBIT  
62  
Scolman  
PENGAD 800-031-6969

Table D.3-3  
Historical M&I Water Requirements  
Antelope Valley Area of Adjudication  
(acre-feet per year)

Year	LACWW 40	Palmdale WD	Littlerock Ck ID	Quartz Hill WD	Rosamond CSD	Antelope Valley WC	Palm Ranch ID	Desert Lake CSD	Boron CSD	Edwards AFB	Main M&I Subtotal	Mutual and Private WCs	Rural Residential	ASR Project LACWW 40	Total
1946	600	1,792	200	480	54	98	307	0	0	2,966	6,497	325	520	0	7,341
1947	200	1,926	207	480	54	98	307	0	0	2,966	6,238	312	499	0	7,049
1948	1,227	2,060	214	729	54	98	307	0	0	2,166	6,856	343	548	0	7,747
1949	1,137	2,195	221	645	54	98	935	0	0	2,941	8,226	411	658	0	9,296
1950	585	2,329	229	480	54	98	307	0	0	2,495	6,577	329	526	0	7,432
1951	1,004	2,463	236	480	54	98	307	0	0	1,587	6,229	311	498	0	7,039
1952	1,087	2,598	243	43	54	98	307	0	0	1,367	5,797	290	464	0	6,550
1953	4,065	2,732	250	480	54	98	210	0	0	1,687	9,576	479	766	0	10,821
1954	2,130	2,867	257	28	54	98	307	0	0	4,005	9,746	487	780	0	11,013
1955	2,130	3,001	264	50	54	98	320	0	0	4,285	10,202	510	816	0	11,529
1956	3,640	4,557	271	147	54	98	56	0	0	4,902	13,726	686	1,068	0	15,510
1957	5,189	4,022	279	394	54	98	384	0	0	2,240	12,659	633	1,013	0	14,305
1958	5,236	4,958	286	447	54	98	472	160	0	1,425	13,136	657	1,051	0	14,843
1959	5,634	4,290	293	535	54	98	898	140	0	4,037	15,978	799	1,278	0	18,066
1960	5,779	3,471	300	526	54	98	483	174	0	2,496	13,381	669	1,070	0	15,121
1961	11,036	3,284	310	585	54	98	310	180	0	4,165	20,023	1,001	1,602	0	22,625
1962	11,535	8,910	320	625	54	98	418	180	0	5,464	27,604	1,380	2,208	0	31,192
1963	10,167	3,563	330	561	54	98	1,431	180	0	2,122	18,507	925	1,481	0	20,912
1964	10,033	4,240	340	545	54	98	675	180	298	3,693	20,156	1,008	1,612	0	22,776
1965	11,760	3,066	350	605	54	98	675	290	305	2,967	20,171	1,009	1,614	0	22,793
1966	10,791	3,988	360	603	54	98	466	300	347	4,357	21,364	1,068	1,709	0	24,141
1967	10,398	4,039	370	516	54	114	598	300	347	3,505	20,242	1,012	1,619	0	22,873
1968	12,536	7,437	380	622	54	128	916	367	472	3,227	26,139	1,307	2,091	0	29,537
1969	15,593	6,471	390	596	54	138	857	275	451	2,630	27,456	1,373	2,196	0	31,025
1970	14,083	5,841	400	918	54	164	815	194	508	1,350	24,328	1,216	1,946	0	27,480
1971	14,007	5,912	410	923	54	187	747	305	606	2,897	26,048	1,302	2,084	0	29,434
1972	15,893	5,962	420	1,065	54	209	850	300	621	3,566	28,941	1,447	2,315	0	32,703
1973	15,177	6,086	430	1,281	54	232	953	329	592	2,557	27,692	1,385	2,215	0	31,292
1974	14,568	6,000	440	1,167	54	220	1,021	331	620	2,369	26,790	1,339	2,143	0	30,273
1975	13,540	6,428	450	1,396	54	248	1,053	335	630	2,145	26,279	1,314	2,102	0	29,696
1976	13,553	6,026	460	1,474	54	281	1,101	318	565	2,245	26,077	1,304	2,086	0	29,467
1977	11,504	5,067	470	1,353	383	261	1,007	320	572	2,344	23,281	1,164	1,862	0	26,308
1978	11,716	6,873	480	1,483	400	271	1,032	322	605	2,444	25,625	1,281	2,050	0	28,957
1979	14,399	6,078	490	1,605	438	109	875	330	549	2,480	27,354	1,368	2,188	0	30,910
1980	14,226	5,073	500	1,744	436	297	1,102	225	580	2,515	26,697	1,335	2,136	0	30,168
1981	15,696	5,894	550	2,033	632	306	1,216	322	498	1,385	28,534	1,427	2,283	0	32,243
1982	15,347	7,209	600	1,789	640	281	904	324	290	2,060	29,444	1,472	2,356	0	33,272
1983	11,387	6,333	650	1,859	480	264	790	385	286	1,672	24,106	1,205	1,928	0	27,240
1984	18,038	8,077	700	2,394	584	328	909	252	238	2,141	33,660	1,683	2,683	0	38,005
1985	19,151	9,786	750	2,427	727	412	1,160	251	327	1,831	36,822	1,841	2,946	0	41,609
1986	23,875	10,340	800	2,553	736	517	1,163	257	323	2,041	42,604	2,130	3,406	0	48,142
1987	25,297	13,286	850	2,627	1,112	517	1,302	226	225	1,601	47,044	2,352	3,763	0	53,169
1988	28,946	12,830	900	2,842	879	594	1,204	259	233	1,597	50,283	2,514	4,023	0	56,820
1989	33,689	18,701	950	3,026	934	666	1,550	80	0	1,593	61,190	3,059	4,895	0	69,145
1990	33,538	18,935	1,000	3,149	1,244	642	1,521	30	0	1,526	61,585	3,079	4,927	0	69,591
1991	25,899	15,717	1,000	2,850	1,696	526	1,296	436	0	1,991	51,410	2,571	4,113	0	58,094
1992	28,300	15,678	1,000	2,891	1,988	570	1,361	372	0	4,794	56,954	2,848	4,556	0	64,358
1993	38,764	18,016	1,000	3,332	2,319	618	1,326	396	0	4,844	70,616	3,531	5,649	0	79,796
1994	41,331	20,598	1,000	3,747	2,504	683	1,446	527	0	5,265	77,101	3,855	6,168	0	87,124
1995	41,477	21,040	1,000	3,897	2,475	677	1,494	667	0	4,986	77,713	3,886	6,217	0	87,816
1996	46,329	23,272	1,000	4,421	2,795	747	1,979	481	0	5,410	86,433	4,322	6,915	0	97,670
1997	47,733	22,891	1,000	4,523	2,782	757	1,780	441	0	5,139	87,046	4,352	6,964	0	98,262
1998	42,187	21,258	1,000	3,955	2,556	655	1,540	444	0	4,468	78,063	3,903	6,245	0	88,211
1999	49,355	25,121	1,000	4,713	2,975	756	1,797	416	0	4,981	91,114	4,556	7,289	0	102,958
2000	52,071	25,029	1,000	4,773	3,091	827	1,705	368	0	6,436	95,301	4,765	7,624	0	107,690
2001	52,701	27,709	1,000	4,870	3,144	810	1,249	372	0	6,329	98,186	4,909	7,855	0	110,950
2002	54,680	25,936	1,000	5,428	3,279	787	1,827	388	0	5,245	98,569	4,928	7,886	0	111,383
2003	54,050	25,064	1,000	5,259	2,984	786	1,695	463	0	4,766	96,067	4,803	7,685	0	108,556
2004	57,236	26,513	1,000	5,444	3,309	870	1,691	374	0	4,888	101,324	5,066	8,106	0	114,497
2005	54,858	28,983	1,000	5,396	3,077	891	1,639	259	0	4,129	100,234	5,012	8,019	558	113,822
2006	58,905	27,597	1,000	5,650	3,515	832	1,434	188	0	4,050	103,171	5,159	8,254	1,612	118,196
2007	59,575	30,201	1,000	6,415	3,740	844	991	205	0	4,150	107,121	5,356	8,570	857	121,904
2008	55,085	26,803	1,000	6,499	3,753	768	1,650	158	0	3,152	98,867	4,943	7,909	0	111,720
2009	48,809	22,873	1,000	5,578	3,163	667	1,522	151	0	3,065	86,829	4,341	6,946	0	98,116

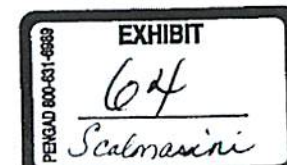
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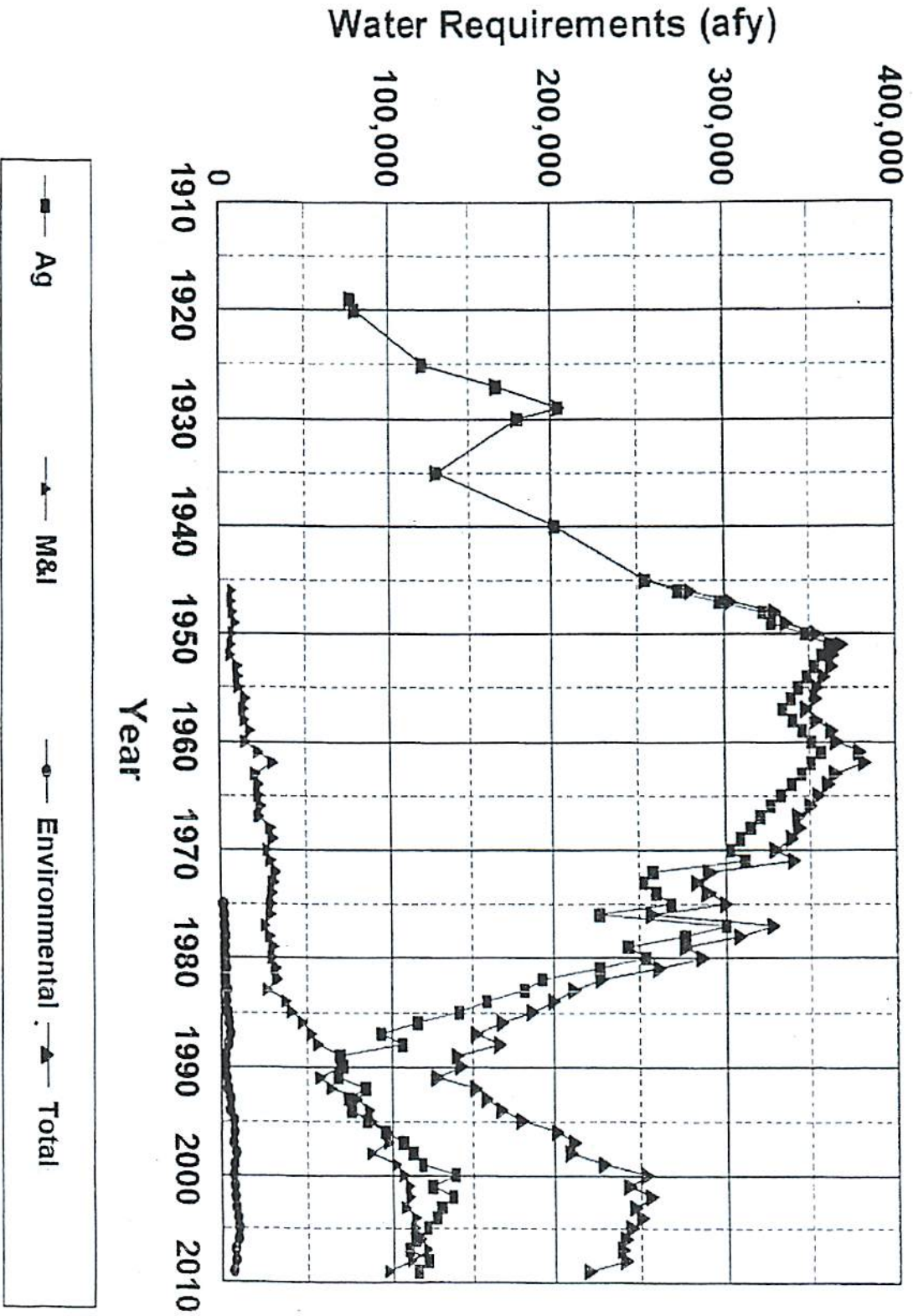
# Tabulated Environmental and Open Space Water Requirements Antelope Valley Area of Adjudication

YEAR	Palute Ponds Wildlife Refuge	Apollo Lakes Regional County Park	Total
1975	840	87	927
1976	1,277	282	1,559
1977	1,699	279	1,978
1978	2,159	297	2,456
1979	1,982	244	2,226
1980	2,172	270	2,442
1981	2,323	278	2,601
1982	2,125	211	2,336
1983	2,767	191	2,958
1984	2,588	167	2,755
1985	3,086	172	3,258
1986	4,210	146	4,356
1987	5,139	132	5,271
1988	3,664	113	3,777
1989	2,009	125	2,134
1990	2,266	185	2,451
1991	2,413	154	2,567
1992	3,399	121	3,520
1993	5,151	128	5,279
1994	4,979	130	5,109
1995	7,003	138	7,141
1996	7,402	99	7,501
1997	6,743	134	6,877
1998	8,587	119	8,706
1999	7,448	190	7,638
2000	6,960	160	7,120
2001	7,344	206	7,550
2002	7,655	184	7,839
2003	8,224	158	8,382
2004	9,033	206	9,239
2005	9,738	219	9,957
2006	9,440	170	9,611
2007	7,550	180	7,730
2008	7,815	210	8,025
2009	6,683	219	6,901

Water Requirements in acre-feet



# Historical Total Water Requirements Antelope Valley Area of Adjudication



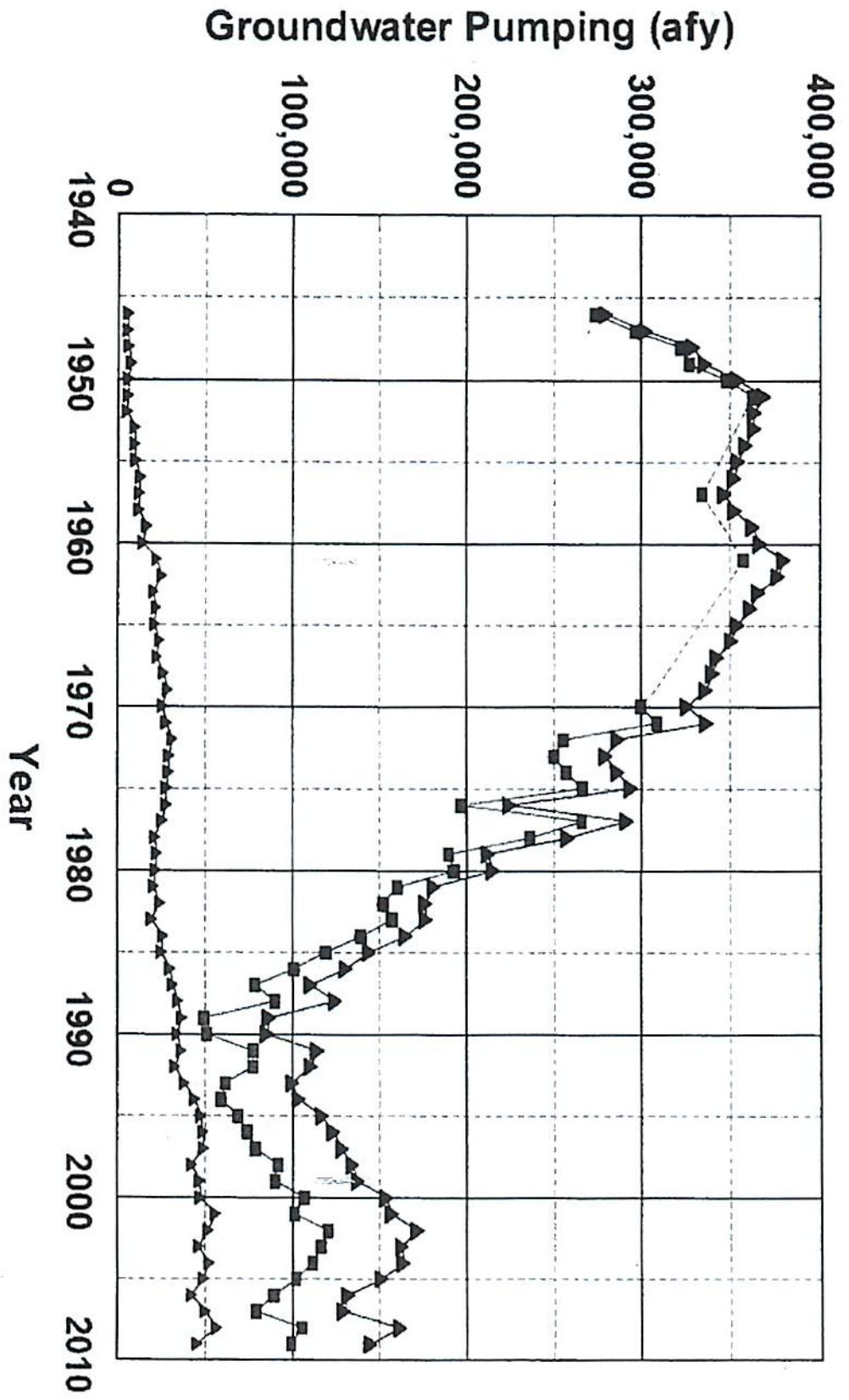
Year	Water Requirements by Use			Total
	Agricultural	Municipal & Industrial	Environmental & Open Space	
1919	77,565	---	---	77,565
1920	80,606	---	---	80,606
1925	121,746	---	---	121,746
1927	167,566	---	---	167,566
1929	204,724	---	---	204,724
1930	180,112	---	---	180,112
1935	130,176	---	---	130,176
1940	202,348	---	---	202,348
1946	255,311	---	---	255,311
1947	273,960	7,341	---	281,302
1948	322,497	7,049	---	330,244
1949	327,885	9,266	---	336,981
1950	347,676	7,432	---	355,108
1951	362,548	7,039	---	369,589
1952	357,856	6,550	---	364,408
1953	353,162	10,821	---	363,983
1954	348,468	11,013	---	359,481
1955	343,774	11,529	---	355,303
1956	339,081	15,510	---	354,591
1957	334,387	14,306	---	348,692
1958	340,131	14,843	---	354,974
1959	345,875	18,056	---	363,930
1960	351,618	15,121	---	366,739
1961	357,362	22,625	---	379,987
1962	351,240	31,192	---	382,432
1963	345,119	20,912	---	366,031
1964	338,997	22,776	---	361,774
1965	332,876	22,793	---	355,669
1966	326,754	24,141	---	350,895
1967	314,511	29,537	---	343,508
1968	308,390	31,025	---	339,415
1970	302,268	27,490	---	329,758
1971	311,131	29,434	---	340,565
1972	258,393	32,703	---	291,097
1973	252,893	31,292	---	284,185
1974	260,133	30,273	---	290,406
1976	227,036	29,467	927	299,700
1977	299,706	26,308	1,569	258,062
1978	278,582	28,957	2,456	307,995
1979	244,010	30,910	2,228	277,146
1980	254,239	30,168	2,442	286,848
1981	227,045	32,243	2,601	261,889
1982	182,624	33,272	2,336	228,232
1983	181,978	27,240	2,958	212,176
1984	158,865	38,036	2,755	199,656
1985	141,879	41,609	3,258	186,746
1986	116,210	48,142	4,356	168,708
1987	94,306	53,159	5,271	152,737
1988	106,671	56,820	3,777	167,268
1989	69,683	69,145	2,134	140,961
1990	71,125	69,591	2,451	143,167
1991	67,961	58,094	2,567	128,622
1992	84,158	64,358	3,520	152,036
1993	73,820	79,796	5,278	158,895
1994	75,937	87,124	5,109	168,170
1995	85,438	87,816	7,141	180,395
1996	96,411	97,670	7,501	180,395
1997	106,937	98,362	6,877	201,582
1998	113,062	89,211	8,706	209,979
1999	119,125	102,856	7,638	229,721
2000	139,348	107,690	7,120	254,158
2001	125,649	110,950	7,550	244,149
2002	137,468	111,383	7,839	258,691
2003	130,350	108,556	8,382	247,288
2004	127,701	114,497	9,239	251,437
2005	121,576	113,822	9,957	245,355
2006	114,012	118,186	9,611	241,818
2007	110,292	121,904	7,730	239,926
2008	122,089	111,720	8,025	241,833
2009	115,573	98,116	8,901	220,591

Table D.3-5  
 Estimated Total Historical Water Requirements  
 Antelope Valley Area of Adjudication  
 (acre-feet per year)

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# Historical Groundwater Pumping Antelope Valley Area of Adjudication



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**Appendix D-7: Table 2  
Calculation of Agricultural Groundwater Pumpage (in afy)**

Year	Historical Total Agricultural Water Requirements	SWP Imported Water (AVEK)	SWP Imported Water (LCID)	SWP Imported Water (PWD to LCID)	SWP Imported Water (Total)	Littlerock Ck Local Water (LCID)	Littlerock Ck Local Water (PWD to LCID)	Littlerock Ck Local Water (Total)	WRPs Recycled Water	Total Surface and Recycled Water	Calculated Groundwater Pumpage to meet Agricultural Requirements	Additional Groundwater Pumpage to export to California Aqueduct	Total Calculated Groundwater Pumpage
1919	77,565	0	0	0	0	0	0	0	0	0	77,565	0	77,565
1920	80,608	0	0	0	0	0	0	0	0	0	80,608	0	80,608
1925	121,748	0	0	0	0	0	0	0	0	0	121,748	0	121,748
1927	167,566	0	0	0	0	0	0	0	0	0	167,566	0	167,566
1929	204,724	0	0	0	0	0	0	0	0	0	204,724	0	204,724
1930	180,112	0	0	0	0	0	0	0	0	0	180,112	0	180,112
1935	130,176	0	0	0	0	0	0	0	0	0	130,176	0	130,176
1940	202,348	0	0	0	0	0	0	0	0	0	202,348	0	202,348
1945	255,311	0	0	0	0	0	0	0	0	0	255,311	0	255,311
1946	273,960	0	0	0	0	0	0	0	0	0	273,960	0	273,960
1947	296,757	0	0	0	0	0	0	0	0	0	296,757	0	296,757
1948	322,497	0	0	0	0	0	0	0	0	0	322,497	0	322,497
1949	327,685	0	0	0	0	0	0	0	0	0	327,685	0	327,685
1950	347,676	0	0	0	0	0	0	0	0	0	347,676	0	347,676
1951	362,549	0	0	0	0	0	0	0	0	0	362,549	0	362,549
1952	357,856	0	0	0	0	0	0	0	0	0	357,856	0	357,856
1953	353,162	0	0	0	0	0	0	0	0	0	353,162	0	353,162
1954	348,468	0	0	0	0	0	0	0	0	0	348,468	0	348,468
1955	343,774	0	0	0	0	0	0	0	0	0	343,774	0	343,774
1956	339,081	0	0	0	0	0	0	0	0	0	339,081	0	339,081
1957	334,387	0	0	0	0	0	0	0	0	0	334,387	0	334,387
1958	340,131	0	0	0	0	0	0	0	0	0	340,131	0	340,131
1959	345,875	0	0	0	0	0	0	0	83	83	345,792	0	345,792
1960	351,518	0	0	0	0	0	0	0	83	83	351,515	0	351,515
1961	357,362	0	0	0	0	0	0	0	83	83	357,279	0	357,279
1962	351,240	0	0	0	0	0	0	0	97	97	351,143	0	351,143
1963	345,119	0	0	0	0	0	0	0	97	97	345,022	0	345,022
1964	338,897	0	0	0	0	0	0	0	135	135	338,862	0	338,862
1965	332,876	0	0	0	0	0	0	0	224	224	332,852	0	332,852
1966	326,754	0	0	0	0	0	0	0	224	224	326,530	0	326,530
1967	320,633	0	0	0	0	0	0	0	424	424	320,209	0	320,209
1968	314,511	0	0	0	0	0	0	0	424	424	314,087	0	314,087
1969	308,390	0	0	0	0	0	0	0	512	512	307,878	0	307,878
1970	302,268	0	0	0	0	1,618	0	1,618	509	2,127	300,142	0	300,142
1971	311,131	0	0	0	0	1,513	0	1,513	700	2,213	308,917	0	308,917
1972	258,393	0	312	0	312	1,466	0	1,466	704	2,482	255,911	0	255,911
1973	252,893	0	262	0	262	1,513	0	1,513	891	2,669	250,227	0	250,227
1974	260,133	0	360	0	360	1,487	0	1,487	806	2,653	257,480	0	257,480
1975	269,078	0	464	0	464	1,350	0	1,350	891	2,705	266,373	0	266,373
1976	227,036	27,295	525	0	27,820	1,248	0	1,248	891	29,959	197,077	0	197,077
1977	299,706	32,133	93	0	32,227	420	0	420	941	33,588	266,118	0	266,118
1978	276,582	37,428	185	0	37,613	1,501	0	1,501	996	40,110	236,472	0	236,472
1979	244,010	50,934	119	0	51,053	1,741	0	1,741	1,036	53,830	190,180	0	190,180
1980	254,239	58,054	170	0	58,225	1,741	0	1,741	958	60,924	193,315	0	193,315
1981	227,046	63,894	1,081	0	64,975	885	0	885	548	66,408	160,637	0	160,637
1982	192,624	39,053	0	0	39,053	1,341	0	1,341	0	40,394	152,229	0	152,229
1983	181,978	23,505	30	0	23,534	931	0	931	88	24,553	157,425	0	157,425
1984	158,865	18,176	1	0	18,177	1,180	0	1,180	404	19,781	139,104	0	139,104
1985	141,879	21,583	0	0	21,583	1,053	0	1,053	399	23,035	118,844	0	118,844
1986	116,210	14,381	125	0	14,506	950	0	950	52	15,519	100,691	0	100,691
1987	94,306	13,916	831	0	14,746	769	0	769	64	15,579	78,727	0	78,727
1988	108,671	14,154	165	0	14,319	394	0	394	2,033	16,745	89,925	0	89,925
1989	69,683	16,100	688	0	16,788	495	0	495	2,725	20,010	49,673	0	49,673
1990	71,125	14,775	1,258	0	16,033	216	0	216	3,824	20,073	51,052	0	51,052
1991	67,961	922	362	0	1,284	520	0	520	4,011	5,815	62,146	15,658	77,804
1992	84,158	2,323	145	0	2,468	519	0	519	3,661	6,648	77,510	0	77,510
1993	73,820	3,115	465	0	6,580	459	0	459	3,127	12,166	61,654	0	61,654
1994	75,937	11,637	775	0	12,412	367	0	367	3,762	16,541	59,395	0	59,395
1995	85,438	12,846	293	81	13,219	0	46	46	3,294	16,559	68,879	0	68,879
1996	96,411	18,245	303	86	18,634	0	24	24	3,502	22,260	74,152	0	74,152
1997	106,937	23,691	256	46	23,994	0	9	9	3,838	27,841	79,095	0	79,095
1998	113,082	17,710	221	60	17,991	0	36	36	3,414	21,441	91,622	0	91,622
1999	119,125	25,235	199	67	25,502	0	16	16	3,678	29,196	89,929	0	89,929
2000	139,348	28,221	0	47	28,267	0	33	33	4,381	32,891	106,667	0	106,667
2001	125,649	19,643	0	181	19,824	0	119	119	4,597	24,540	101,109	0	101,109
2002	137,468	10,138	0	326	10,465	0	0	0	6,628	17,093	120,376	0	120,376
2003	130,350	6,390	0	120	6,510	0	37	37	7,501	14,048	116,302	0	116,302
2004	127,701	7,682	0	142	7,824	0	46	46	8,142	16,012	111,890	0	111,890
2005	121,576	9,282	0	152	9,434	0	90	90	9,998	19,521	102,054	0	102,054
2006	114,012	12,731	0	30	12,760	0	10	10	11,797	24,568	89,445	0	89,445
2007	110,292	17,858	0	88	17,946	0	0	0	13,228	31,175	79,118	0	79,118
2008	122,089	3,692	0	75	3,767	0	16	16	12,941	16,724	105,365	0	105,365
2009	115,573	1,805	0	111	1,916	0	1	1	14,573	16,490	99,084	0	99,084

\* Extrapolated between land use survey years 1950, 1957, and 1961, and crop report year 1970

