

NEWLANDS PROJECT WATER BUDGET

Line		1988 OCAP ¹ , Base	1988 OCAP, 1992 Assumptions	1988 OCAP, 1992 w/o Additional Acres	1995 Example
1	Irrigated Acreage (acres)	60,900	64,850	61,630	59,075
2	Maximum Headgate Entitlement²	226,450	237,485	226,555	206,230
	<u>Distribution System Losses</u>				
	Evaporation:				
3	Canals/Laterals	6,000	6,200	6,000	5,838
4	Regulatory Reservoirs	15,000	7,500	7,500	7,500
	Seepage:				
5	Canals/Laterals	50,000	51,000	48,500	46,481
6	Regulatory Reservoirs	7,000	4,000	4,000	4,000
7	Operational Losses	<u>87,980</u>	<u>40,800</u>	<u>39,400</u>	<u>38,270</u>
8	TOTAL LOSSES³	165,980	109,500	105,400	102,089
9	Max. Allowable Diversion⁴ (MAD)	392,430	346,985	331,955	308,319
10	Projected Efficiency (%)⁵ Assuming 100% Water Use	58.4	68.4	68.2	66.9
11	Expected Headgate Entitlement Unused⁶	20,930	23,700	22,700	13,611
12	Diversion Reduction for Unused Water⁷	25,430	26,500	25,400	15,279
13	Expected Irrigation Diversions⁸	367,000	320,485	306,555	293,040
14	Expected Efficiency (%)⁹	56.0	66.7	66.5	65.7 ¹⁰

1. All values are in acre-feet except where noted. The first 3 columns of numbers come from the 1988 OCAP, Table 1.
2. Derived by multiplying the acreage by the appropriate water duty.
3. In deriving the 1988 OCAP water budget, it was recognized that the District had reduced losses by 7,400 acre-feet prior to 1988.
4. Maximum Headgate Entitlement (line 2) plus Total Losses (line 8).
5. Maximum Headgate Entitlement (line 2) divided by Maximum Allowable Diversion (line 9) multiplied by 100.
6. Water delivery records show that, historically, lands have been irrigated with less than their full entitlement. In the 1988 OCAP base, the unused portion of the entitlement was assumed to be approximately 9 percent; in the 1988 OCAP 10 percent; in the 1995 example 6.6 percent.
7. Unused Water (line 11) plus a proportional share of Operational Loss (line 7).
8. Maximum Allowable Diversion (line 9) minus Diversion Reduction (line 12).
9. Maximum Headgate Entitlement (line 2) minus Unused Water (line 11) divided by Expected Irrigation Diversion (line 13) multiplied by 100.
10. Expected efficiency at 93.4 percent use of headgate entitlement; other entries based on 90 percent.