

Table 3.0-3. Estimates of Unappropriated SAR Water Available for Capture by Muni/Western for Base Period WY 1961-62 through WY 1999-2000
Project Diversion Capacity of 1,500 cfs
 (Values in Acre-Feet)

Scenario	Project Scenario C								Project Scenario A							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Senior Claimant Diversions	User-Specified Rate of up to 88 cfs								Historical Diversions							
Conservation District Diversion	Historical Diversions				Licensed Right (up to 10,400 afy)				Historical Diversions				Licensed Right (up to 10,400 afy)			
Environmental Habitat Release	1,000 cfs / 2 days		Other Habitat Treatment		1,000 cfs / 2 days		Other Habitat Treatment		1,000 cfs / 2 days		Other Habitat Treatment		1,000 cfs / 2 days		Other Habitat Treatment	
Seasonal Storage	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Cumulative Total																
Senior Claimant Diversions	1,416,607	1,416,607	1,416,607	1,416,607	1,416,607	1,416,607	1,416,607	1,416,607	1,038,135	1,038,135	1,038,135	1,038,135	1,038,135	1,038,135	1,038,135	1,038,135
Reservoir Evaporation	3,196	3,196	3,196	3,196	3,196	3,196	3,196	3,196	5,608	5,608	5,608	5,608	5,608	5,608	5,608	5,608
Conservation District Diversion	398,466	398,466	398,466	398,466	107,060	107,060	107,060	107,060	404,980	404,980	404,980	404,980	193,483	193,483	193,483	193,483
Environmental Habitat Release	27,769	27,769	-	-	35,703	35,703	-	-	35,703	35,703	-	-	35,703	35,703	-	-
Total Muni/Western Potential Capture	445,836	445,836	473,605	473,605	729,308	729,308	765,011	765,011	807,448	807,448	843,151	843,151	1,018,945	1,018,945	1,054,648	1,054,648
Undiverted from SAR*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	2,291,874	2,291,874	2,291,874	2,291,874	2,291,874	2,291,874	2,291,874	2,291,874	2,291,874	2,291,874	2,291,874	2,291,874	2,291,874	2,291,874	2,291,874	2,291,874
Average Annual																
Senior Claimant Diversions	36,323	36,323	36,323	36,323	36,323	36,323	36,323	36,323	26,619	26,619	26,619	26,619	26,619	26,619	26,619	26,619
Reservoir Evaporation	82	82	82	82	82	82	82	82	144	144	144	144	144	144	144	144
Conservation District Diversion	10,217	10,217	10,217	10,217	2,745	2,745	2,745	2,745	10,384	10,384	10,384	10,384	4,961	4,961	4,961	4,961
Environmental Habitat Release	712	712	-	-	915	915	-	-	915	915	-	-	915	915	-	-
Total Muni/Western Potential Capture	11,432	11,432	12,144	12,144	18,700	18,700	19,616	19,616	20,704	20,704	21,619	21,619	26,127	26,127	27,042	27,042
Undiverted from SAR*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maximum Annual																
Senior Claimant Diversions	58,528	58,528	58,528	58,528	58,528	58,528	58,528	58,528	45,245	45,245	45,245	45,245	45,245	45,245	45,245	45,245
Reservoir Evaporation	273	273	273	273	273	273	273	273	368	368	368	368	368	368	368	368
Conservation District Diversion	56,953	56,953	56,953	56,953	10,400	10,400	10,400	10,400	48,152	48,152	48,152	48,152	10,400	10,400	10,400	10,400
Environmental Habitat Release	3,967	3,967	-	-	3,967	3,967	-	-	3,967	3,967	-	-	3,967	3,967	-	-
Total Muni/Western Potential Capture	121,026	121,026	124,933	124,993	147,468	147,468	151,435	151,435	171,389	171,389	175,356	175,356	194,350	194,350	198,317	198,317
Undiverted from SAR *	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* Estimate (on a monthly basis) of the quantity of water remaining in the channel below Cuttle Weir after all diversions have occurred.

Model input variables that are common to all scenarios include the following (variables described in OPMODEL documentation):

- a) Values shown in table for Total Potential Capture and Undiverted from SAR are estimated using OPMODEL and Allocation Model
- b) Synthesized hydrology based on re-operated Bear Valley Dam
- c) Release of continual 3 cfs from dam to account for groundwater interruption by the dam foundation
- d) USGS gage differences and rounding accounted for in senior water claimant diversions
- e) Conservation District diversion capacity = 300 cfs
- f) Release frequency for environmental releases is no more than every 6 months for 8 scenarios with environmental releases
- g) Maximum number of environmental releases = 100% of potential releases for 6 of the scenarios with environmental releases
- h) Maximum annual diversion by Muni/Western = 200,000 afy
- i) Percent of available dam release un-divertable through Plunge Pool Pipeline = 0%
- j) Flood/Conservation target storages from USACE Feasibility Report and Interim Water Control Plan
- k) Evaporation rates from USACE Feasibility Report