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)

	Ducient												ſ	Ductost	1
	Project													Project	
															1
															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
User-Specified Rate of up to 88 cfs Historical Diversions															
Historical Diversions			Licensed Right (up to 10,400 afy)			Historical Diversions				Licensed Right (up to 10,400 afy)					
1,000 cfs/2 days Other Habitat Treatm			nt Treatment	t 1,000 cfs/2 days Other Habitat Treatme			t Treatment	1,000 cfs/2 days Other Habitat			t Treatment 1,000 cfs / 2 days			Other Habitat Treatment	
Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
													•		
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
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
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
27,769	27,769	-	-	35,703	35,703	-	-	35,703	35,703	-	-	35,703	35,703	-	-
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
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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
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
82	82	82	82	82	82	82	82	144	144	144	144	144	144	144	144
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
712	712	-	-	915	915	-	-	915	915	-	-	915	915	-	-
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
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
													-		
58,528	58,528	58,528	58 <i>,</i> 528	58 <i>,</i> 528	58,528	58,528	58,528	45,245	45,245	45,245	45,245	45,245	45,245	45,245	45,245
273	273	273	273	273	273	273	273	368	368	368	368	368	368	368	368
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
3,967	3,967	-	-	3,967	3,967	-	-	3,967	3,967	-	-	3,967	3,967	-	-
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
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Yes 1,416,607 3,196 398,466 27,769 445,836 - 2,291,874 36,323 82 10,217 712 11,432 - 58,528 273 56,953 3,967	Scenario C 1 2 Historical E 1,000 cfs/2 days Yes No 1,416,607 1,416,607 3,196 3,196 398,466 398,466 27,769 27,769 445,836 445,836 - - 2,291,874 2,291,874 36,323 36,323 36,323 36,323 32 82 10,217 10,217 712 712 11,432 11,432 11,432 11,432 58,528 58,528 273 273 56,953 56,953 3,967 3,967	Scenario C 1 2 3 User-1 Istorical Diversions 1,000 cfs/2 days Other Habita Yes No Yes 1,416,607 1,416,607 1,416,607 3,196 3,196 3,196 398,466 398,466 398,466 27,769 27,769 - 445,836 445,836 473,605 - - - 2,291,874 2,291,874 2,291,874 36,323 36,323 36,323 36,323 36,323 36,323 36,323 36,323 36,323 36,323 36,323 36,323 36,323 36,323 36,323 82 82 82 10,217 10,217 10,217 712 712 - 11,432 11,432 12,144 - - - 58,528 58,528 58,528 273	Scenario C 1 2 3 4 User-Specified Rat Historical Diversions 1,000 cfs/2 days Other Habitat Treatment Yes No Yes 1,416,607 1,416,607 1,416,607 3,196 3,196 3,196 398,466 398,466 398,466 27,769 27,769 - 445,836 445,836 473,605 445,836 445,836 473,605 2,291,874 2,291,874 2,291,874 2,291,874 2,291,874 2,291,874 36,323 36,323 36,323 36,323 36,323 36,323 36,323 36,323 36,323 82 82 82 10,217 10,217 10,217 712 712 - 11,432 11,432 12,144 11,432 11,432 12,144 - - - 58,528 58,528 </td <td>Scenario C12345User-Specified Rate of up to 88Historical DiversionsLice1,000 cfs/2 daysOther Habit-Treatment1,000 cfsYesNoYesNoYes1,416,6071,416,6071,416,6071,416,6073,1963,1963,1963,1963,196398,466398,466398,466398,466107,06027,76927,769-35,703445,836445,836473,605473,60572,291,8742,291,8742,291,8742,291,8742,291,8742,291,8742,291,8742,291,87436,32336,32336,32336,32336,32336,32336,32336,3238282828210,21710,21710,2172,74571271291511,43211,43212,14411,43211,43212,14418,70058,52858,52858,52858,52827327327327327556,95356,95356,95310,4003,967</td> <td>Scenario C 1 2 3 4 5 6 User-Specified Rate of up to 88 cfs Lice-sed Right (not set set set set set set set set set se</td> <td>Scenario C 1 2 3 4 5 6 7 User-Specified Rate of up to 88 cfs User-specified Rate of up to 88 cfs Other Habita Icersed Right (up to 10,400 at 1,000 cfs/2 days Other Habita Treatment 1,000 cfs/2 days Other Habita Yes No Yes No Yes No Yes 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 3,196 3,196 3,196 3,196 3,196 3,196 3,196 398,466 398,466 398,466 107,060 107,060 107,060 27,769 27,769 - - 35,703 - 445,836 445,836 473,605 729,308 729,308 765,011 - - - - - - - 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 <</td> <td>Scenario C Scenario C 1 2 3 4 5 6 7 8 User-Specified Rate of up to 88 cfs Lice-sed Right (up to 10,400 afy) 1,000 cfs/2 days Other Habitat Treatment 1,000 cfs/2 days Other Habitat Treatment Yes No Yes No Yes No Yes No 1,416,607</td> <td>Scenario C Scenario C 1 2 3 4 5 6 7 8 9 User-Specified Rate of up to 88 cfs Licensed Right (up to 10,400 aty) Licensed Right (up to 10,400 aty) J.000 cfs /2 days Other Habitat Treatment J.000 cfs /2 days 1/416,607 <td< td=""><td>Scenario C Scenario C 1 2 3 4 5 6 7 8 9 10 User-Specified Rate of up to 88 cfs Historical Diversity Historical Diversity Historical Diversity Ves No Ves No Yes No 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607</td><td>Scenario C Scenario C 1 2 3 4 5 6 7 8 9 10 11 User-Specified Rate of up to 88 cfs Historical Diversions Licensed Right (up to 10,400 afy) Historical Diversions 1,000 cfs / 2 days Other Habitat Treatment 1,000 cfs / 2 days Other Habitat Treatment 1,000 cfs / 2 days Other Habitat 1,416.607 1,616.70 1,038.</td><td>Scenario C Scenario C 1 2 3 4 5 6 7 8 9 10 11 12 User-Specified Rate of up to 88 cfs Historical Diversions Licensed Right (up to 10,400 afy) Historical Diversions 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 1,416.607 1,416.607 1,416.607 1,416.607 1,416.607 1,416.607 1,038,135 1</td><td>Scenario C Scenario C 1 2 3 4 5 6 7 8 9 10 11 12 13 Image: Constraint of the state of the st</td><td>Scenario C Scenario C 1 2 3 4 5 6 7 8 9 10 11 12 13 14 User-Specified Rate of up to 88 cfs Historical Diversions Licensed Right (up to 10,400 afy) Historical Diversions Licensed Right (up to 10,400 afy) Historical Diversions Licensed Right (up to 10,400 afy) 1,000 cfs/2 days Other Habita Treatment L000 cfs/2 days Other Habita Treatment L000 cfs/2 days Other Habita Treatment L000 cfs/2 days No Yes No 1,416,607</td><td>Scenario C Scenario A 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Liter-Specified Rite of up to 88 cf. User-Specified Rite of up to 88 cf. User-Specified Rite of up to 88 cf. User-Specified Rite of up to 80 cf. <</td></td<></td>	Scenario C12345User-Specified Rate of up to 88Historical DiversionsLice1,000 cfs/2 daysOther Habit-Treatment1,000 cfsYesNoYesNoYes1,416,6071,416,6071,416,6071,416,6073,1963,1963,1963,1963,196398,466398,466398,466398,466107,06027,76927,769-35,703445,836445,836473,605473,60572,291,8742,291,8742,291,8742,291,8742,291,8742,291,8742,291,8742,291,87436,32336,32336,32336,32336,32336,32336,32336,3238282828210,21710,21710,2172,74571271291511,43211,43212,14411,43211,43212,14418,70058,52858,52858,52858,52827327327327327556,95356,95356,95310,4003,967	Scenario C 1 2 3 4 5 6 User-Specified Rate of up to 88 cfs Lice-sed Right (not set set set set set set set set set se	Scenario C 1 2 3 4 5 6 7 User-Specified Rate of up to 88 cfs User-specified Rate of up to 88 cfs Other Habita Icersed Right (up to 10,400 at 1,000 cfs/2 days Other Habita Treatment 1,000 cfs/2 days Other Habita Yes No Yes No Yes No Yes 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 3,196 3,196 3,196 3,196 3,196 3,196 3,196 398,466 398,466 398,466 107,060 107,060 107,060 27,769 27,769 - - 35,703 - 445,836 445,836 473,605 729,308 729,308 765,011 - - - - - - - 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 <	Scenario C Scenario C 1 2 3 4 5 6 7 8 User-Specified Rate of up to 88 cfs Lice-sed Right (up to 10,400 afy) 1,000 cfs/2 days Other Habitat Treatment 1,000 cfs/2 days Other Habitat Treatment Yes No Yes No Yes No Yes No 1,416,607	Scenario C Scenario C 1 2 3 4 5 6 7 8 9 User-Specified Rate of up to 88 cfs Licensed Right (up to 10,400 aty) Licensed Right (up to 10,400 aty) J.000 cfs /2 days Other Habitat Treatment J.000 cfs /2 days 1/416,607 <td< td=""><td>Scenario C Scenario C 1 2 3 4 5 6 7 8 9 10 User-Specified Rate of up to 88 cfs Historical Diversity Historical Diversity Historical Diversity Ves No Ves No Yes No 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607</td><td>Scenario C Scenario C 1 2 3 4 5 6 7 8 9 10 11 User-Specified Rate of up to 88 cfs Historical Diversions Licensed Right (up to 10,400 afy) Historical Diversions 1,000 cfs / 2 days Other Habitat Treatment 1,000 cfs / 2 days Other Habitat Treatment 1,000 cfs / 2 days Other Habitat 1,416.607 1,616.70 1,038.</td><td>Scenario C Scenario C 1 2 3 4 5 6 7 8 9 10 11 12 User-Specified Rate of up to 88 cfs Historical Diversions Licensed Right (up to 10,400 afy) Historical Diversions 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 1,416.607 1,416.607 1,416.607 1,416.607 1,416.607 1,416.607 1,038,135 1</td><td>Scenario C Scenario C 1 2 3 4 5 6 7 8 9 10 11 12 13 Image: Constraint of the state of the st</td><td>Scenario C Scenario C 1 2 3 4 5 6 7 8 9 10 11 12 13 14 User-Specified Rate of up to 88 cfs Historical Diversions Licensed Right (up to 10,400 afy) Historical Diversions Licensed Right (up to 10,400 afy) Historical Diversions Licensed Right (up to 10,400 afy) 1,000 cfs/2 days Other Habita Treatment L000 cfs/2 days Other Habita Treatment L000 cfs/2 days Other Habita Treatment L000 cfs/2 days No Yes No 1,416,607</td><td>Scenario C Scenario A 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Liter-Specified Rite of up to 88 cf. User-Specified Rite of up to 88 cf. User-Specified Rite of up to 88 cf. User-Specified Rite of up to 80 cf. <</td></td<>	Scenario C Scenario C 1 2 3 4 5 6 7 8 9 10 User-Specified Rate of up to 88 cfs Historical Diversity Historical Diversity Historical Diversity Ves No Ves No Yes No 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607 1,416,607	Scenario C Scenario C 1 2 3 4 5 6 7 8 9 10 11 User-Specified Rate of up to 88 cfs Historical Diversions Licensed Right (up to 10,400 afy) Historical Diversions 1,000 cfs / 2 days Other Habitat Treatment 1,000 cfs / 2 days Other Habitat Treatment 1,000 cfs / 2 days Other Habitat 1,416.607 1,616.70 1,038.	Scenario C Scenario C 1 2 3 4 5 6 7 8 9 10 11 12 User-Specified Rate of up to 88 cfs Historical Diversions Licensed Right (up to 10,400 afy) Historical Diversions 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 1,416.607 1,416.607 1,416.607 1,416.607 1,416.607 1,416.607 1,038,135 1	Scenario C Scenario C 1 2 3 4 5 6 7 8 9 10 11 12 13 Image: Constraint of the state of the st	Scenario C Scenario C 1 2 3 4 5 6 7 8 9 10 11 12 13 14 User-Specified Rate of up to 88 cfs Historical Diversions Licensed Right (up to 10,400 afy) Historical Diversions Licensed Right (up to 10,400 afy) Historical Diversions Licensed Right (up to 10,400 afy) 1,000 cfs/2 days Other Habita Treatment L000 cfs/2 days Other Habita Treatment L000 cfs/2 days Other Habita Treatment L000 cfs/2 days No Yes No 1,416,607	Scenario C Scenario A 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Liter-Specified Rite of up to 88 cf. User-Specified Rite of up to 88 cf. User-Specified Rite of up to 88 cf. User-Specified Rite of up to 80 cf. <

* 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