

Appendix D – Modeling

Attachment 2-5 – CalSim II Model Delivery Specifications

Table 2. American River – Future Conditions

	Diversions Location	CVP M&I¹ Contracts (maximum¹)	Water Rights (maximum)	Diversions Limit (maximum capacity)
Placer County Water Agency	Auburn Dam Site		65.0	65.0
Total		0	65.0	65.0
Sacramento Suburban Water District ²	Folsom Reservoir		0	0
City of Folsom - includes P.L. 101-514		7	27	34
Folsom Prison			5	5
San Juan Water District (Placer County)			25	25
San Juan Water District (Sac County) - includes P.L. 101-514		24.2	33	57.2
El Dorado Irrigation District		7.55	17	24.55
City of Roseville		32	30	62.0
Placer County Water Agency		35		35
El Dorado County - P.L.101-514		15		15
Total		120.75	137.0	257.75
So. Cal WC/Arden Cordova WC		Folsom South Canal		5
California Parks and Recreation	5			5
SMUD	30		15	45
Canal Losses			1	1
Total	35		21	56
City of Sacramento ³	Lower American River		230	230
Carmichael Water District			12	12
Total		0	242	242
Total American River Diversions		155.75	465	620.75
Sacramento River Diversions				
City of Sacramento	Lower Sacramento River		81.8	81.8
Sacramento County Water Agency		10		10
Sacramento County Water Agency - P.L. 101-514 / FRWP		35		35
Sacramento County Water Agency - water rights and acquisitions			varies ⁴ , average ~32	varies ⁴ , average ~32
East Bay Municipal Utilities District		133		varies ⁵ , average 14.6
Total Sacramento River Diversions			178	113.8
Total		333.75	578.8	794.15

Notes:

- When the CVP Contract quantity exceeds the quantity of the Diversions Limit minus the Water Right (if any), the diversion modeled is the quantity allocated to the CVP Contract (based on the CVP contract quantity shown times the CVP M&I allocation percentage) plus the Water Right (if any), but with the sum limited to the quantity of the Diversions Limit
- Diversions is only allowed if and when Mar-Nov Folsom Unimpaired Inflow (FUI) exceeds 1600 TAF
- When the Hodge single dry year criteria is triggered, Mar-Nov FUI falls below 400 TAF, diversions on the American River is limited to 50 TAF/yr; based on monthly Hodge flow limits assumed for the American, diversions on the Sacramento River may be increased to 223 TAF due to reductions of diversions on American River
- SCWA targets 68 TAF of surface water supplies annually. The portion unmet by CVP contract water is assumed to come from two sources:
 - Delta “excess” water- averages 17.5 TAF annually, but varies according to availability. SCWA is assumed to divert excess flow when it is available, and when there is available pumping capacity.
 - “Other” water- derived from transfers and/or other appropriated water, averaging 14.5 TAF annually but varying according remaining unmet demand.
- EBMUD CVP diversions are governed by the Amendatory Contract, stipulating:
 - 133 TAF maximum diversions in any given year
 - 165 TAF maximum diversions amount over any 3 year period
 - Diversions allowed only when EBMUD total storage drops below 500 TAF
 - 155 cfs maximum diversions rate