

Table AQ1-3. Target Instream Flow Modeling Calibration Flows (For Discussion Only)

Facility/Location	License Requirement ¹	1975 - 2003 Hydrology (cfs)				Target Calibration Flow/Release ^{3,4}	Approximate Duration (days)	Approximate Timing in 2008	Frog Breeding Considerations During Flow Releases	Comments
		Min, Avg, Max, 30% of Avg		% Exceedance 90, 80, 50, 20, 10, 40% of 10						
Duncan Creek Diversion Dam	Dry: 4 cfs or natural Wet: 8 cfs or natural	Imp : 0.1, 13.0, 2560, 3.9 UnImp : 0.1, 38.6, 2800, 11.6	0.7, 1.1, 5.9, 13, 16, 6.4 0.8, 1.2, 8.2, 55, 110, 44.0	4-8, 16 ^{2*} , 44	1, 2, 1	Sp, Sp, Sp	Likely Not			
French Meadows Dam	Dry: 4 cfs Wet: 8 cfs	Imp : 2.6, 19.4, 3430, 5.8 UnImp : 0.2, 165.3, 10373, 49.6	5.5, 7.7, 9.6, 11, 14, 5.6 4.5, 9.3, 46.4, 248, 467, 187.0	4-8, 48 ^{2*} , 187	1, 2, 1	Su, Sp/Early Su, Sp	Likely Not			
Middle Fork Interbay	Dry: 12 cfs or natural Wet: 23 cfs or natural	Imp : 4.8, 67.9, 7600, 20.4 UnImp : 2.8, 344.4, 17359, 103.3	13.0, 18.0, 24.0, 46, 85, 34.1 15.3, 23.6, 98.4, 552, 935, 374.1	12-23, 100 ^{2*} , 374	1, 2, 1	Su, Sp/Early Su, Sp	May/Early June			
Below Oxbow Powerhouse	All Times: 75 cfs bl. NF of MF Confluence	Imp : 41.0, 1123.7, 64500, 337.1 UnImp ² : 15.4, 1244.5, 88473, 373.4 UnImp : 17.1, 1481.6, 87662, 444.5	119.0, 277.0, 743.0, 1510, 2310, 924.0 76.6, 116.3, 362.8, 1971, 3229, 1291.4 81.2, 124.0, 466.6, 2428, 3863, 1545.0	75, 368 ^{2*} , 1000 ^{2,5*}	2, 4, 2	Su, Su, Su	Likely Not, Typical Summer Operations Are Within The Range Of Target Flow Releases ⁶			
Hell Hole Dam	Dry: 10 cfs June 1 - Oct 14 6 cfs Oct 15 - May 31 Wet: 20 cfs May 15 - Dec 14 10 cfs Dec 15 - May 14	Imp : 0.3, 39.4, 17100, 11.8 UnImp ² : 0.1, 278.9, 22985, 83.7 UnImp : 0.1, 405.7, 25762, 121.7	10.0, 12.0, 20.0, 23, 26, 10.4 5.1, 11.3, 75.1, 416, 789, 315.4 9.1, 19.6, 120.4, 596, 1174, 469.6	10-20, 80 ^{2*} , 315	3, 6 (** may be able to reduce), 3	Su, Sp/Early Su, Sp	May/Early June			
Rubicon Bl South Fork	None	Imp : 8.3, 117.4, 27544, 35.2 UnImp ² : 3.7, 356.9, 34973, 107.1 UnImp : 3.0, 599.1, 36353, 179.7	26.0, 32.3, 47.1, 106, 193, 77.3 19.2, 29.4, 101.3, 533, 924, 369.5 19.1, 35.4, 178.7, 933, 1667, 666.8	10-20*, 80*, 315* (*Hell Hole release plus natural accretion, approx. target 10-20, 104, 370)	** same days as above	Su, Sp/Early Su, Sp	May/Early June			
South Fork Long Canyon Diversion Dam	Dry: 2.5 cfs or natural Wet: 5 cfs or natural	Imp : 0.0, 8.7, 1304, 2.6 UnImp : 0.0, 18.4, 1304, 5.5	0.4, 0.7, 3.4, 6, 10, 4.2 0.4, 0.7, 4.4, 30, 52, 20.7	2.5-5 ² , 10 ^{2*} , 21	1, 2, 1	Sp, Sp, Sp	Presently Unknown			
North Fork Long Canyon Diversion Dam	All Times: 2 cfs or natural	Imp : 0.0, 5.1, 742, 1.5 UnImp : 0.0, 9.8, 742, 2.9	0.3, 0.4, 2.0, 4, 8, 3.2 0.3, 0.4, 2.4, 15, 27, 11.0	2 ² , 5 ^{2*} , 11	1, 2, 1	Sp, Sp, Sp	Presently Unknown			
Long Canyon Creek	None	Imp : 0.1, 29.3, 3424, 8.8 UnImp : 0.1, 43.8, 3424, 13.1	1.2, 1.8, 8.3, 29, 64, 25.6 1.2, 1.8, 10.6, 65, 119, 47.5	4.5-7 ² , 15 ^{2*} , 3247.5 (NF and SF releases above plus natural accretion)	1, 2, 1 (** same days as NF and SF above)	Sp, Sp, Sp	Presently Unknown			

¹ CDWR current year forecast of unimpeded run-off of the American River to Folsom Reservoir: Dry <1,000,000 a/f, Wet > 1,000,000 a/f.

² UnImp* = Unimpaired flows without PCWA Project, but impaired by SMUD.

³ The lowest flow is the existing minimum flow. The medium flow is the higher of (A) the 2X the highest existing minimum flow or (B) the average of the 50% exceedance flow and the 30% of average flow (typically the latter). The highest flow is 40% of the 10% exceedance flow (allows modeling up to the 10% exceedance flow). Some exceptions exist to these rules. Below the Oxbow Powerhouse the maximum flow is set at 1000 cfs as this is the maximum flow that can be released through the powerhouse. In the North and South Forks of Long Canyon the medium flow target was set higher, between the minimum and high flows, to facilitate hydraulic modeling.

⁴ These are target flows identified by the Aquatic TWG based on current information. The target flows may need to be modified if for instance the Recreation studies indicate that a flow outside the range of flows that can be modeled by the target flows needs to be evaluated.

⁵ These flows are proposed for velocity data collection and will need to be maintained for several days during daylight hours. The other flows can be measured quickly and require shorter duration releases.

⁶ An additional water surface elevation measurement near 2000 cfs will be measured if possible during spring runoff.

⁷ An additional water surface elevation measurement lower than the minimum flow, will be obtained if possible, to facilitate low flow modeling.