

ARWP DESIGN FLOODS — AMERICAN RIVER FLOOD CONTROL PROJECTS
Three Day Mean Flows (Unregulated)
(Measure of Design Flood Performance of ARWP Flood Control Projects)

Project	Methodology/Source	Flow	Adopted Flow	Other Flow
1945 Folsom Dam Reservoir Design Flood	Phil Williams & Associates 1987 <i>100-Year Flood Study</i> Tab. 3, from 1959 Folsom Reservoir Regulation Manual	146,000 cfs	146,000 cfs	340K cfs Peak Flow, 1-day mean 256K cfs, 978K ac-ft 6-Day
Current Folsom Dam Operations (1995 400/670 variable storage plan)	Personal Communication w/ ACE (.7 x SPF) [(9/29/95)] or ARWP recurrence frequency est. from 1991 ARWI App. K flow-frequency curve, Chart 4	178,500 cfs or 193,000 cfs	180,000 cfs	
1995 ACE ARWP Folsom Mod Plan (lowered spillways, enlarged outlet works, 475/720 variable storage)	Personal Communication w/ ACE (.9 x SPF) [(9/29/95)] or ARWP recurrence frequency on 1991 ARWI App. K flow-frequency, Chart 4	229,500 cfs or 230,000 cfs	230,000 cfs	
1995 ACE ARWP Stepped Release Plan (145 & 180K cfs levees, lowered spillways, enlarged river outlets, 400/670 var. storage)	Personal Communication w/ ACE (.97 x SPF) [(9/29/95)] or ARWP recurrence frequency on 1991 ARWI App. K flow-frequency, Chart 4	247,350 cfs or 250,000 cfs	248,000 cfs	
1991 ACE ARWI Auburn Dam (540,000 ac-ft)	Personal Communication w/ ACE (1.05 x SPF) [(9/29/95)] or ARWP recurrence frequency on 1991 ARWI App. K flow-frequency, Chart 4	267,000 cfs or 273,000 cfs	270,000 cfs	
1994 ACE 180K Levee Plan (w/ lowered spillways, enlarged river outlets, 475/810 var. storage)	Personal Communication w/ ACE (1.10 x SPF) [(9/29/95)] or ACE 1991 App. K SPF x 1.1	280,500 cfs or 286,000 cfs	281,000 cfs	
1995 ACE ARWP Auburn Dam (898,000 ac-ft)	Personal Communication w/ ACE (1.27 x SPF) [(9/29/95)] or ARWP recurrence frequency on 1991 ARWI App. K flow-frequency, Chart 4	323,850 cfs or 325,000 cfs	325,000 cfs	

Notes

Personal Communication with Wallace Lam, ACE, SPF estimate used for scaling is 255,000 cfs.

F.O.R., December, 1997