



**TURLOCK IRRIGATION DISTRICT**  
333 EAST CANAL DRIVE  
POST OFFICE BOX 949  
TURLOCK, CALIFORNIA 95381  
(209) 883-8300

Don Pedro Dam and  
Powerhouse

April 22, 2010

VIA E-MAIL

Tim Heyne  
California Dept. of Fish and Game  
P.O. Box 10  
La Grange, CA 95329

Deborah Giglio  
U.S. Fish and Wildlife Service  
2800 Cottage Way, W-2605  
Sacramento, CA 95825

Maria Rea  
National Marine Fisheries Service  
650 Capitol Mall, Suite 8-300  
Sacramento, CA 95814-4708

RE: Project 2299 – Minimum Flow Schedule for 2010-2011 Fish Flow Year

Dear Fishery Agency representatives:

Based on applying the current DWR April-July runoff forecast update of April 13 to the DWR April 1 60-20-20 basin index, the annual minimum flow requirement is 300,923 AF under both the 90% Exceedence case and the 50% Exceedence case. These values are also shown on Table 1 with the respective 60-20-20 index.

Table 2 has the same daily Article 37 schedule previously provided in the March 25 letter for the 50% exceedence condition. At the present time, substantially higher flows ranging from about 1,700-2,500 cfs in a similar pattern are initially projected to continue into at least late May. Those higher total flows have been incorporated into the VAMP operational schedule for the April 23 – May 23 period.

If you have any questions, please contact Wes Monier at 209-883-8321.

Sincerely,

Robert M. Nees  
Director of Water Resources and Regulatory Affairs

C: Larry Weis - TID  
Allen Short – MID  
Michael Carlin - CCSF  
FERC Secretary



Table 1

SAN JOAQUIN VALLEY WATER YEAR HYDROLOGIC CLASSIFICATION  
602020 INDEX

YEAR	APRIL-JULY RUNOFF (AF)			OCTOBER-MARCH RUNOFF (AF)			TOTAL	602020 INDEX	TUOLUMNE RIVER MINIMUM FLOW REQUIREMENT	San Joaquin Index (not the FERC Index)	RANKING
	STANISLAUS	TUOLUMNE	MERCED	FRIANT	TOTAL	STANISLAUS					
Feb 1 Forecast											
Dry	400,000	760,000	400,000	900,000	2,460,000	220,000	405,000	235,000	350,000	1,210,000	133,064 Dry
Average	650,000	1,170,000	600,000	1,270,000	3,690,000	315,000	535,000	305,000	450,000	1,605,000	300,923 Below Normal
Wet	1,110,000	1,960,000	1,060,000	2,090,000	6,220,000	470,000	785,000	465,000	660,000	2,380,000	300,923 Wet
Feb 09 Update											
Dry	410,000	780,000	410,000	920,000	2,520,000	220,000	405,000	235,000	350,000	1,210,000	135,516 Dry
Average	640,000	1,150,000	600,000	1,270,000	3,660,000	315,000	535,000	305,000	450,000	1,605,000	294,919 Below Normal
Wet	1,080,000	1,890,000	1,030,000	2,020,000	6,020,000	470,000	785,000	465,000	660,000	2,380,000	300,923 Wet
Feb 16 Update											
Dry	400,000	750,000	400,000	890,000	2,440,000	220,000	405,000	235,000	350,000	1,210,000	132,247 Dry
Average	610,000	1,080,000	570,000	1,210,000	3,470,000	315,000	535,000	305,000	450,000	1,605,000	251,796 Below Normal
Wet	1,030,000	1,780,000	970,000	1,910,000	5,690,000	470,000	785,000	465,000	660,000	2,380,000	300,923 Wet
Feb 23 Update											
Dry	400,000	750,000	390,000	870,000	2,410,000	220,000	405,000	235,000	350,000	1,210,000	131,021 Dry
Average	580,000	1,040,000	550,000	1,170,000	3,340,000	315,000	535,000	305,000	450,000	1,605,000	222,292 Below Normal
Wet	990,000	1,700,000	920,000	1,810,000	5,420,000	470,000	785,000	465,000	660,000	2,380,000	300,923 Wet
Mar 1 Forecast											
Dry	460,000	910,000	500,000	1,050,000	2,920,000	220,000	430,000	235,000	335,000	1,220,000	152,399
Average	630,000	1,170,000	640,000	1,330,000	3,770,000	270,000	460,000	270,000	425,000	1,425,000	300,923 Below Normal
Wet	1,020,000	1,790,000	990,000	1,920,000	5,720,000	380,000	560,000	325,000	515,000	1,780,000	300,923 Wet
Mar 09 Update											
Dry	490,000	960,000	530,000	1,100,000	3,080,000	220,000	430,000	235,000	335,000	1,220,000	159,214 Below Normal
Average	650,000	1,200,000	660,000	1,360,000	3,870,000	270,000	460,000	270,000	425,000	1,425,000	300,923 Above Normal
Wet	1,000,000	1,760,000	980,000	1,890,000	5,630,000	380,000	560,000	325,000	515,000	1,780,000	300,923 Wet
Mar 16 Update											
Dry	510,000	1,000,000	550,000	1,140,000	3,200,000	220,000	430,000	235,000	335,000	1,220,000	164,325 Below Normal
Average	660,000	1,220,000	670,000	1,380,000	3,930,000	270,000	460,000	270,000	425,000	1,425,000	300,923 Above Normal
Wet	980,000	1,730,000	970,000	1,850,000	5,530,000	380,000	560,000	325,000	515,000	1,780,000	300,923 Wet
Mar 23 Update											
Dry	500,000	960,000	530,000	1,110,000	3,100,000	220,000	430,000	235,000	335,000	1,220,000	160,065 Below Normal
Average	640,000	1,160,000	640,000	1,330,000	3,770,000	270,000	460,000	270,000	425,000	1,425,000	300,923 Below Normal
Wet	930,000	1,620,000	910,000	1,740,000	5,200,000	380,000	560,000	325,000	515,000	1,780,000	300,923 Wet
Apr 1 Forecast											
Dry	530,000	990,000	540,000	1,150,000	3,210,000	270,000	460,000	275,000	430,000	1,435,000	179,926
Average	650,000	1,160,000	640,000	1,340,000	3,790,000	270,000	460,000	275,000	430,000	1,435,000	300,923 Above Normal
Wet	900,000	1,550,000	880,000	1,680,000	5,010,000	270,000	460,000	275,000	430,000	1,435,000	300,923 Wet
Apr 13 Update											
Dry	620,000	1,150,000	670,000	1,370,000	3,810,000	270,000	460,000	275,000	430,000	1,435,000	300,923 Above Normal
Average	730,000	1,290,000	750,000	1,540,000	4,310,000	270,000	460,000	275,000	430,000	1,435,000	300,923 Above Normal
Wet	920,000	1,590,000	940,000	1,810,000	5,260,000	270,000	460,000	275,000	430,000	1,435,000	300,923 Wet

TABLE 2  
Tuolumne River Flow Schedule  
SCHEDULE FOR 2010 - 2011 Fish Flow Year

Table with columns: DATE, Number of DAYS, Base Flow (CFS, AF, ACCUM.), Pulse Flows (CFS, AF, ACCUM.), Interpolation Flow (CFS, AF, ACCUM.), Other Adjusted Flow (CFS, AF, ACCUM.), Total FERC Flow (CFS, ACCUM.). Rows span from 15-Apr-2010 to 14-Apr-2011.

1 cfs day = 1.993471 acre-feet (af)

Notes: 1. Based on 60:30:30 Index

2. The pulse flows are a target that represents a daily average.