

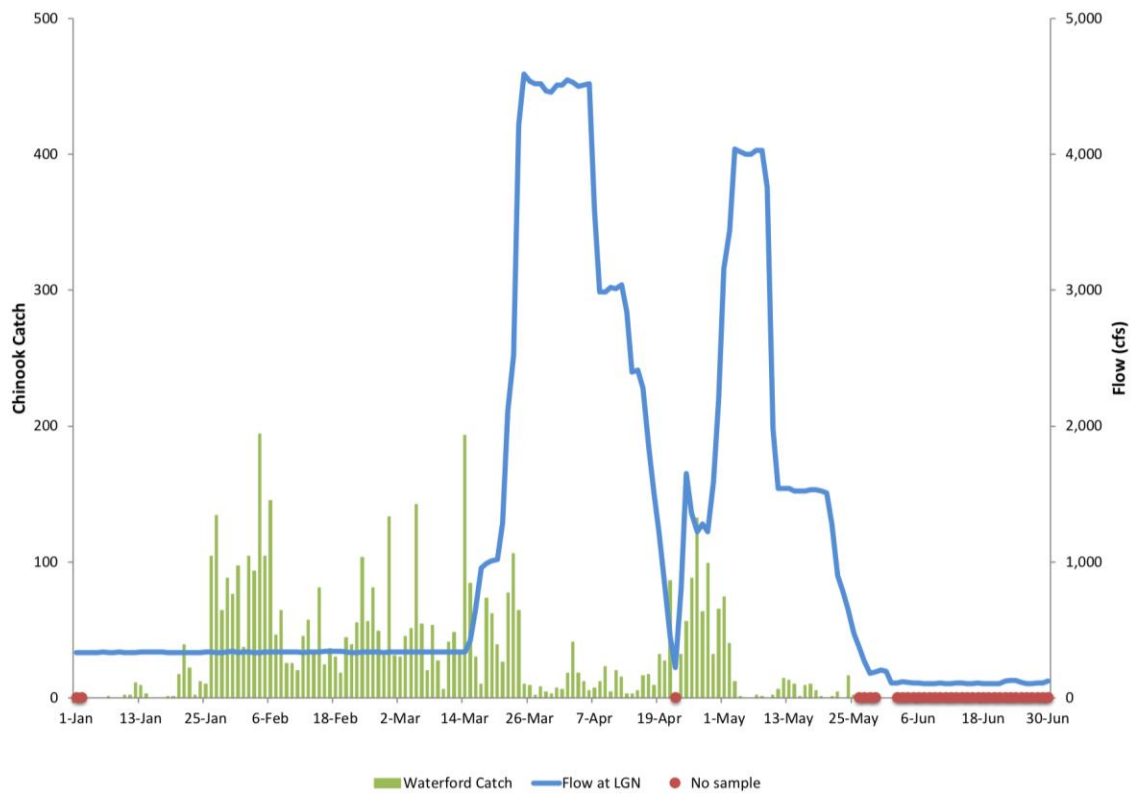


Figure 1. Waterford Chinook catch and Tuolumne River flow at La Grange, 2018.

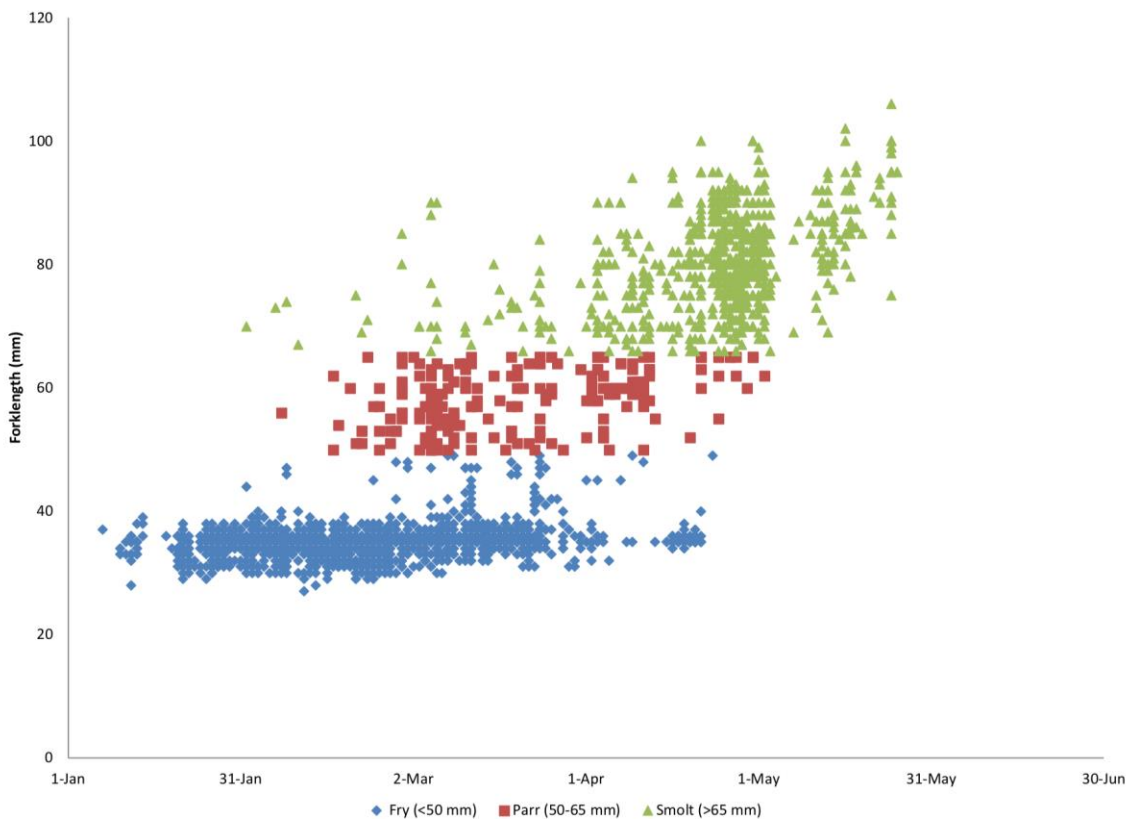


Figure 2. Chinook forklengths by lifestage at Waterford, 2018.

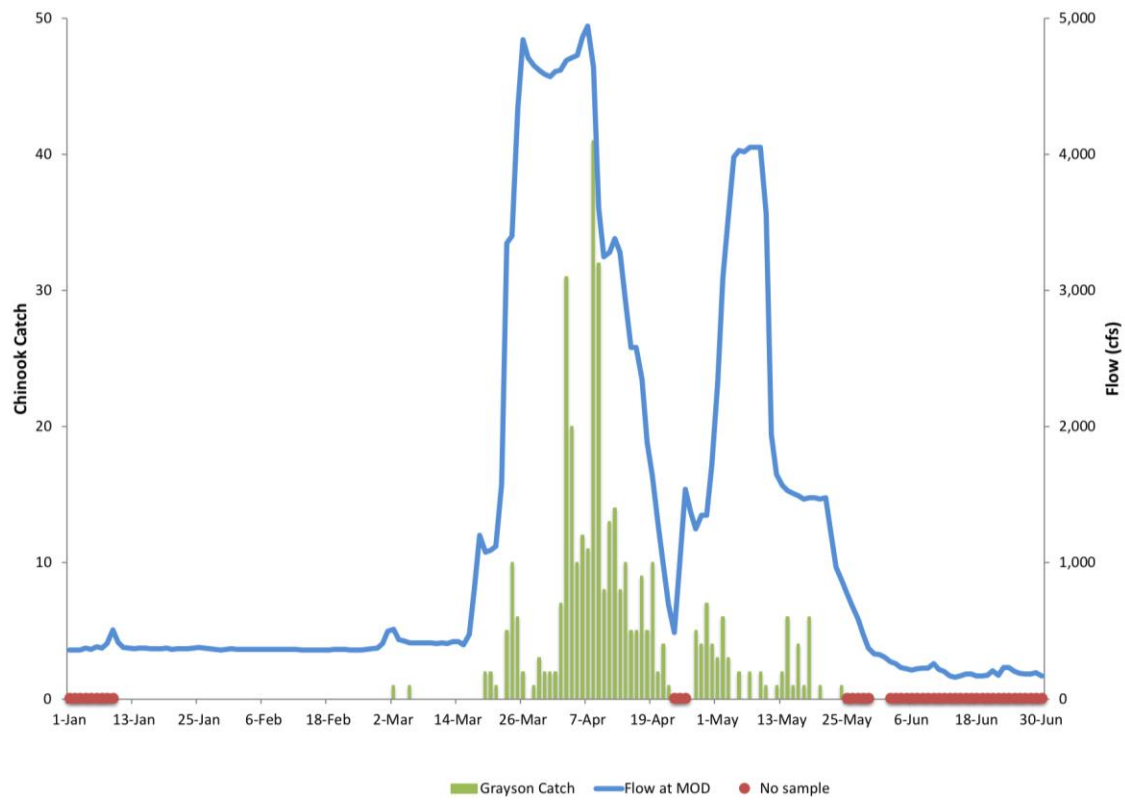


Figure 3. Grayson Chinook catch and Tuolumne River Flow at Modesto, 2018.

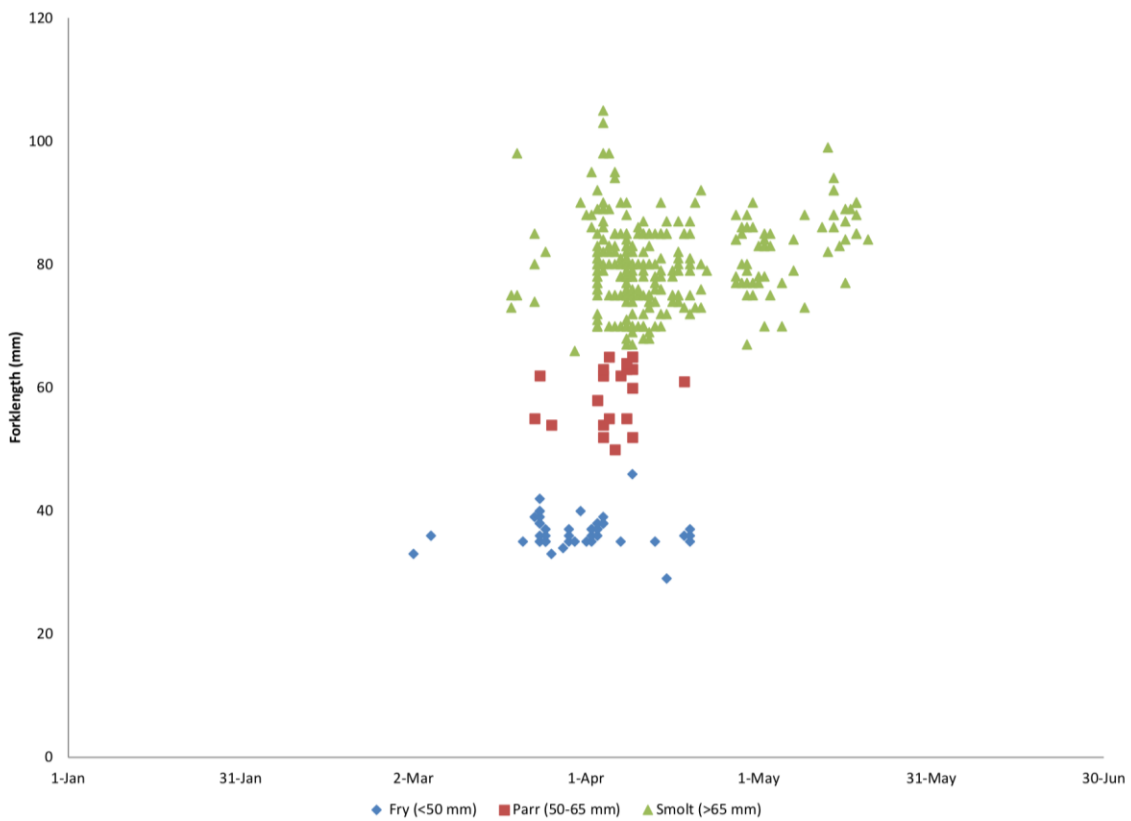


Figure 4. Chinook forklengths by lifestage at Grayson, 2018.

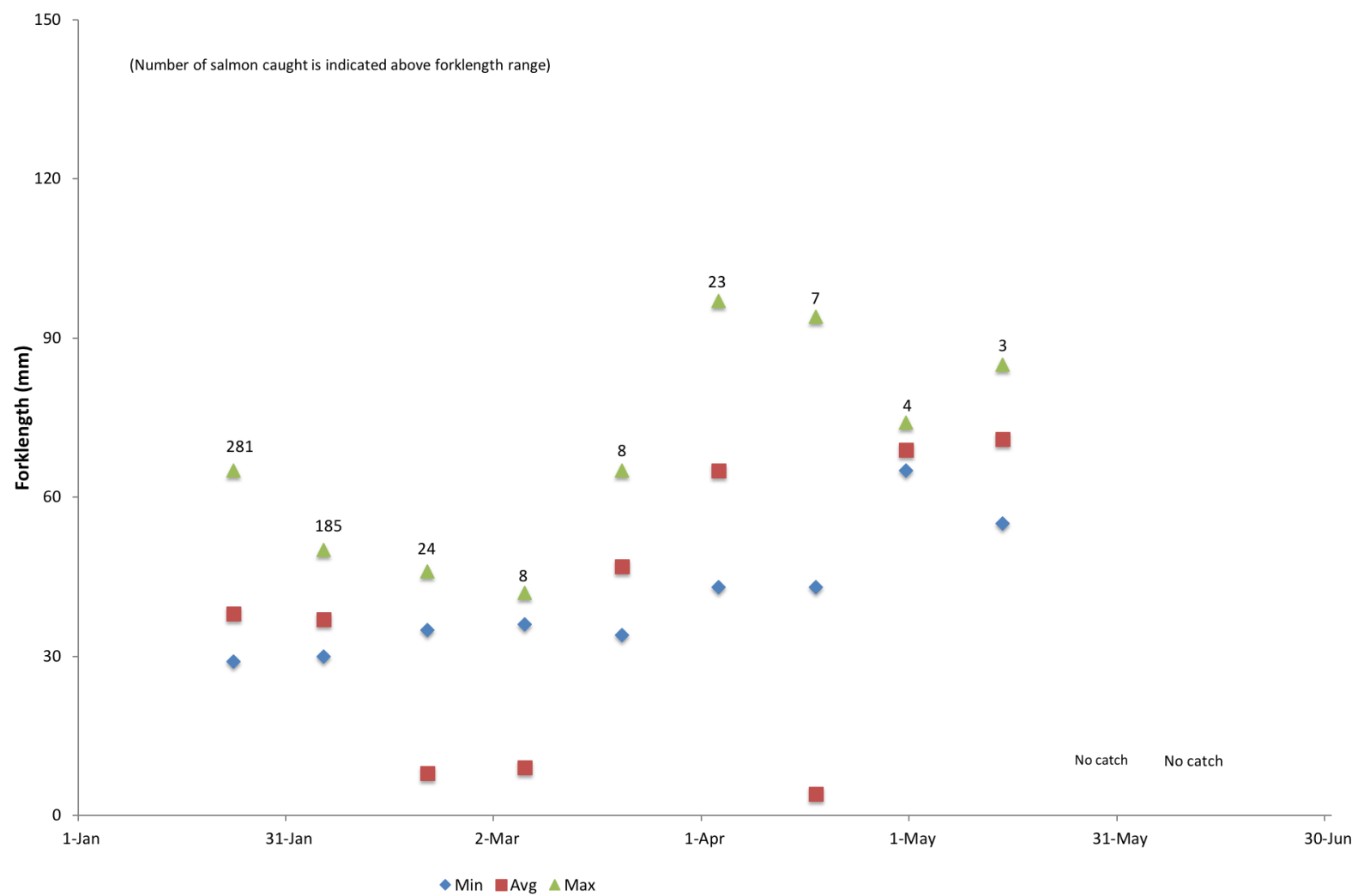


Figure 5. Number and minimum, average, and maximum forklength of Chinook captured during the 2018 Tuolumne River seine surveys.

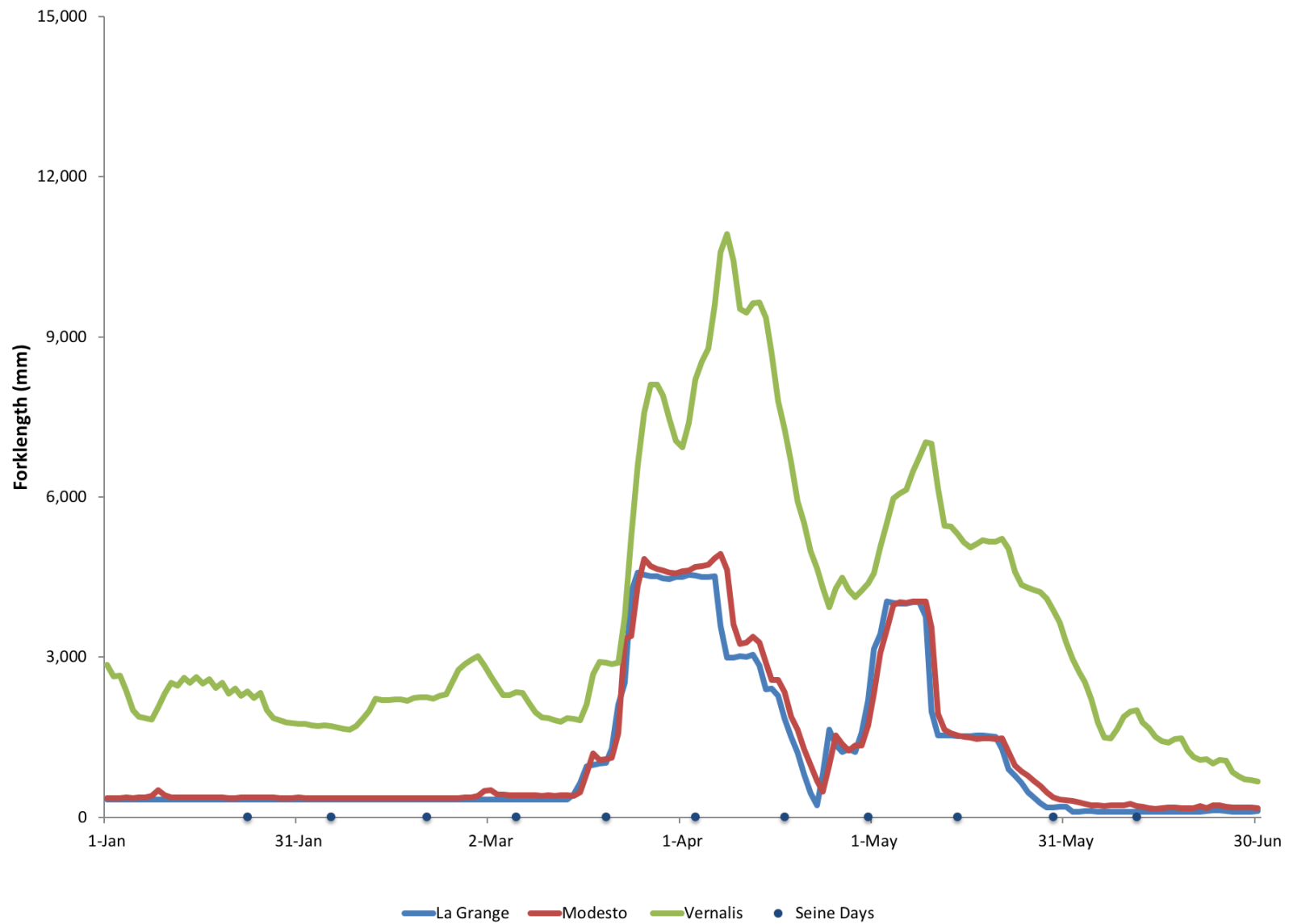


Figure 6. Tuolumne River flow at La Grange and Modesto and San Joaquin River flow at Vernalis during 2018 Tuolumne River seine surveys.

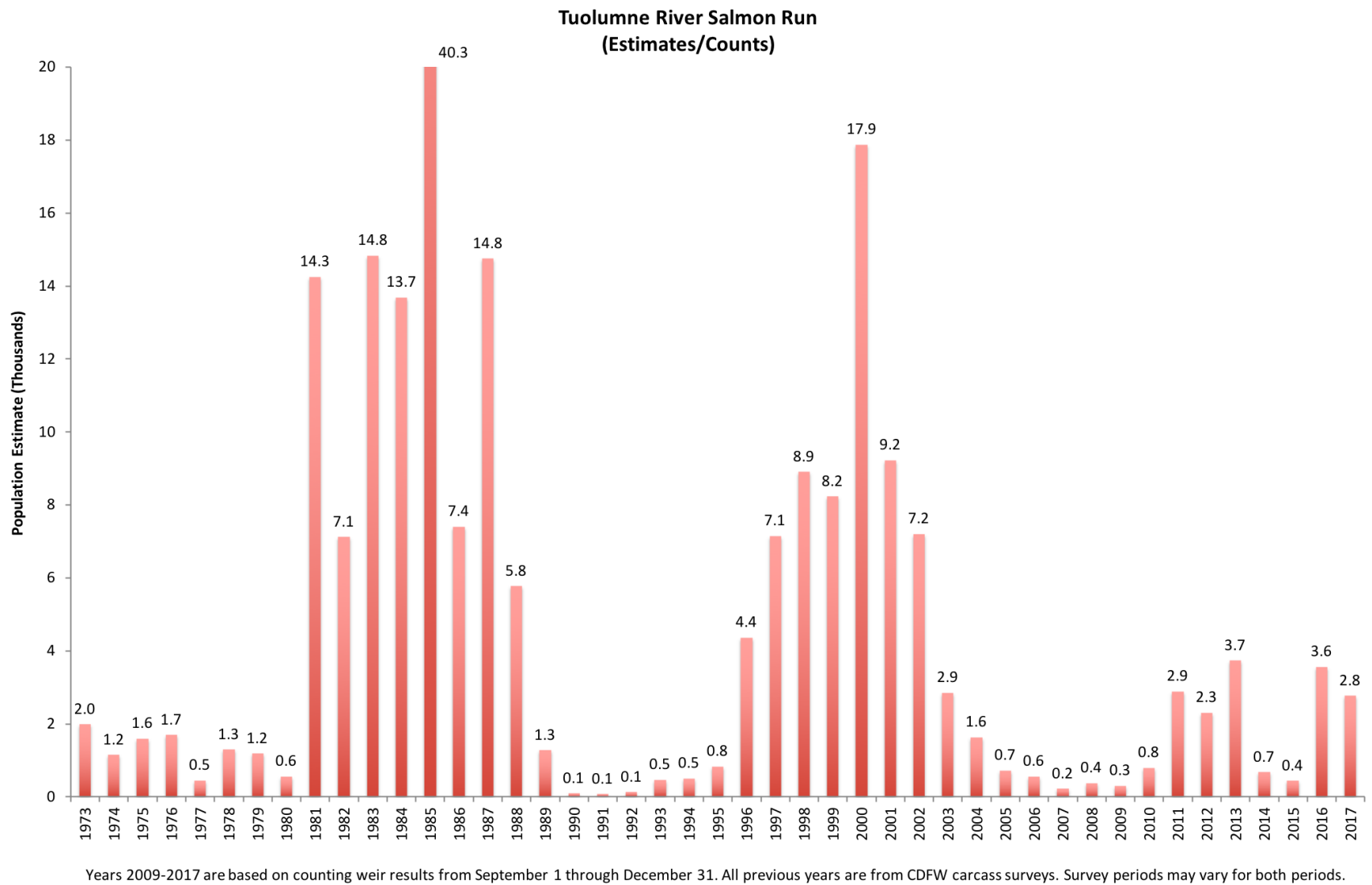


Figure 7. Tuolumne River Chinook escapement, 1973-2017.

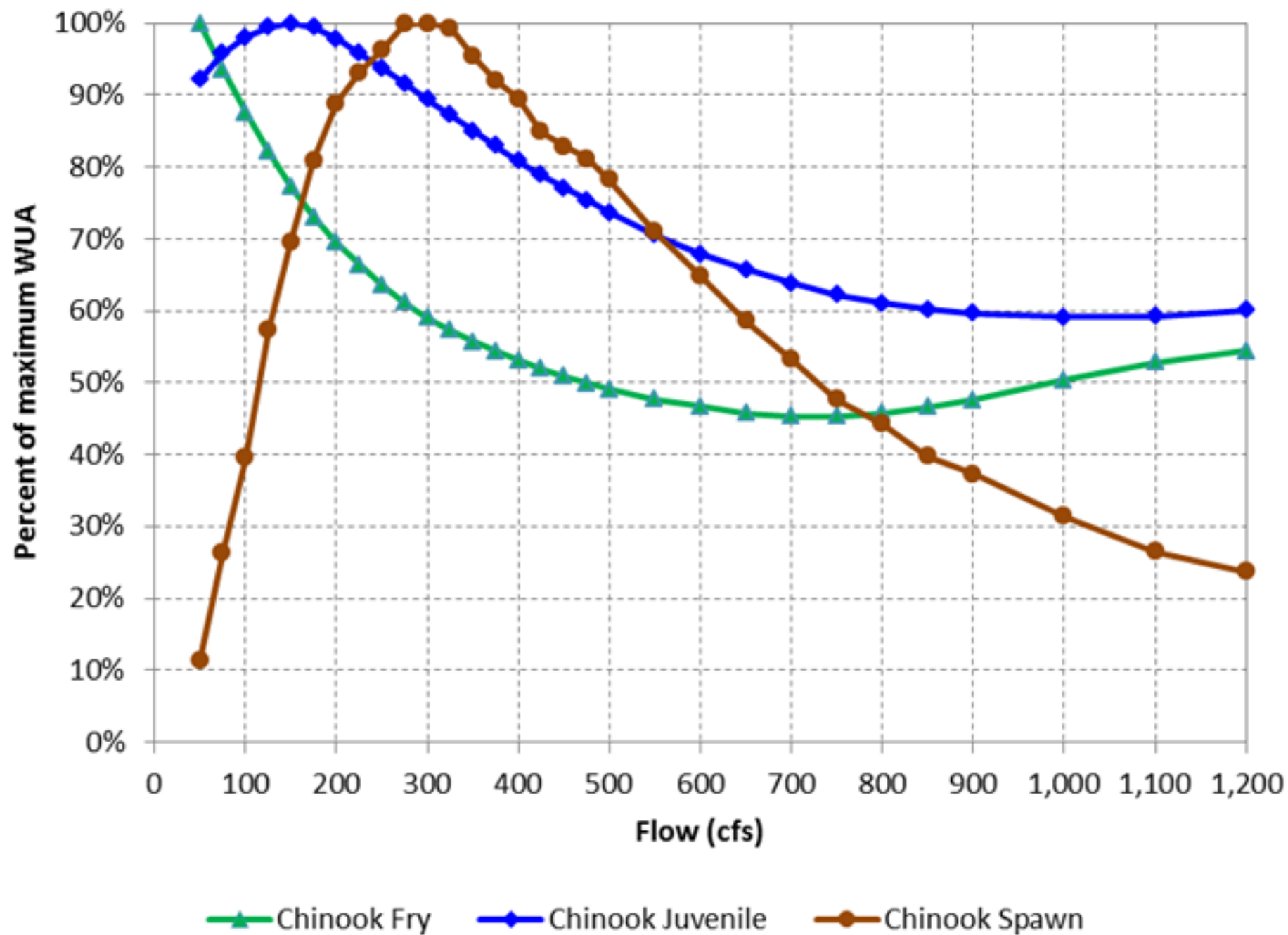


Table 2

SAN JOAQUIN VALLEY WATER YEAR HYDROLOGIC CLASSIFICATION **602020 INDEX**

60-20-20 YEAR	APRIL-JULY RUNOFF (AF)					OCTOBER-MARCH RUNOFF (AF)					602020 INDEX	TUOLUMNE RIVER MINIMUM FLOW REQUIREMENT	San Joaquin Index (not the FERC Index)	FERC Index	
	STANISLAUS	TUOLUMNE	MERCED	FRIANT	TOTAL	STANISLAUS	TUOLUMNE	MERCED	FRIANT	TOTAL				RANKING	
17	1,440,796	2,454,169	1,232,846	2,641,089	7,768,900	1,570,518	2,276,847	1,222,014	1,585,049	6,654,428	6,462,633	300,923	Wet	MEDIAN WET/	MAXIMUM
18	590,353	1,011,627	459,456	947,685	3,009,121	379,583	620,658	273,637	368,411	1,642,289	3,033,930	284,675	Below Normal	MEDIAN BELOW	NORMAL
Feb 1 Forecast															
Dry	300,000	590,000	270,000	520,000	1,680,000	293,000	437,000	165,000	258,000	1,153,000	2,138,600	126,361	Dry	INTERMEDIATE	C-D WATER YEAR
Average	370,000	720,000	330,000	680,000	2,100,000	333,000	487,000	195,000	308,000	1,323,000	2,424,600	144,604	Dry	INTERMEDIATE	D-BN
Wet	490,000	940,000	430,000	860,000	2,720,000	393,000	577,000	235,000	368,000	1,573,000	2,846,600	217,900	Below Normal	MEDIAN BELOW	NORMAL
Feb 13 Update															
Dry	230,000	470,000	210,000	390,000	1,300,000	293,000	437,000	165,000	258,000	1,153,000	1,910,600	115,257	Critical	MEDIAN CRITICAL	WATER YEAR
Average	300,000	600,000	270,000	550,000	1,720,000	333,000	487,000	195,000	308,000	1,323,000	2,196,600	129,886	Dry	MEDIAN DRY	
Wet	410,000	800,000	360,000	720,000	2,290,000	393,000	577,000	235,000	368,000	1,573,000	2,588,600	156,831	Below Normal	INTERMEDIATE	D-BN
Mar 01 Update															
Dry	180,000	350,000	140,000	320,000	990,000	244,000	361,000	135,000	221,000	961,000	1,686,200	108,926	Critical	MEDIAN CRITICAL	WATER YEAR
Average	240,000	490,000	200,000	450,000	1,380,000	270,000	405,000	156,000	255,000	1,086,000	1,945,200	116,233	Critical	MEDIAN CRITICAL	WATER YEAR
Wet	360,000	640,000	260,000	570,000	1,830,000	314,000	451,000	180,000	291,000	1,236,000	2,245,200	132,955	Dry	MEDIAN DRY	
Mar 09 Update															
Dry	230,000	490,000	210,000	460,000	1,390,000	244,000	361,000	135,000	221,000	961,000	1,926,200	115,697	Critical	MEDIAN CRITICAL	WATER YEAR
Average	300,000	650,000	280,000	600,000	1,830,000	270,000	405,000	156,000	255,000	1,086,000	2,215,200	131,061	Dry	MEDIAN DRY	
Wet	430,000	820,000	350,000	750,000	2,350,000	314,000	451,000	180,000	291,000	1,236,000	2,557,200	154,490	Below Normal	INTERMEDIATE	D-BN
Mar 20 Update															
Dry	280,000	590,000	250,000	540,000	1,660,000	244,000	361,000	135,000	221,000	961,000	2,088,200	123,518	Critical	INTERMEDIATE	C-D WATER YEAR
Average	360,000	760,000	330,000	680,000	2,130,000	270,000	405,000	156,000	255,000	1,086,000	2,395,200	142,426	Dry	MEDIAN DRY	
Wet	500,000	950,000	410,000	840,000	2,700,000	314,000	451,000	180,000	291,000	1,236,000	2,767,200	189,597	Below Normal	MEDIAN BELOW	NORMAL
Mar 27 Update															
Dry	340,000	730,000	310,000	700,000	2,080,000	244,000	361,000	135,000	221,000	961,000	2,340,200	138,953	Dry	MEDIAN DRY	
Average	430,000	910,000	400,000	840,000	2,580,000	270,000	405,000	156,000	255,000	1,086,000	2,665,200	162,542	Below Normal	INTERMEDIATE	D-BN
Wet	580,000	1,110,000	490,000	1,030,000	3,210,000	314,000	451,000	180,000	291,000	1,236,000	3,073,200	298,673	Below Normal	MEDIAN BELOW	NORMAL
Apr 01 Update															
Dry	510,000	930,000	440,000	860,000	2,740,000	379,583	620,658	273,637	368,411	1,642,289	2,872,458	227,117	Below Normal	MEDIAN BELOW	NORMAL
Average	580,000	1,050,000	500,000	1,000,000	3,130,000	379,583	620,658	273,637	368,411	1,642,289	3,106,458	300,923	Above Normal	INTERMEDIATE	BN-AN
Wet	680,000	1,220,000	570,000	1,140,000	3,610,000	379,583	620,658	273,637	368,411	1,642,289	3,394,458	300,923	Above Normal	INTERMEDIATE	BN-AN
Apr 10 Update															
Dry	480,000	890,000	420,000	830,000	2,620,000	379,583	620,658	273,637	368,411	1,642,289	2,800,458	201,452	Below Normal	MEDIAN BELOW	NORMAL
Average	590,000	1,060,000	510,000	980,000	3,140,000	379,583	620,658	273,637	368,411	1,642,289	3,112,458	300,923	Above Normal	INTERMEDIATE	BN-AN
Wet	730,000	1,250,000	600,000	1,160,000	3,740,000	379,583	620,658	273,637	368,411	1,642,289	3,472,458	300,923	Above Normal	INTERMEDIATE	BN-AN
Apr 17 Update															
Dry	520,000	950,000	450,000	890,000	2,810,000	379,583	620,658	273,637	368,411	1,642,289	2,914,458	242,088	Below Normal	MEDIAN BELOW	NORMAL
Average	620,000	1,120,000	540,000	1,040,000	3,320,000	379,583	620,658	273,637	368,411	1,642,289	3,220,458	300,923	Above Normal	INTERMEDIATE	BN-AN
Wet	760,000	1,310,000	630,000	1,210,000	3,910,000	379,583	620,658	273,637	368,411	1,642,289	3,574,458	300,923	Above Normal	INTERMEDIATE	BN-AN
Apr 24 Update															
Dry	510,000	940,000	440,000	870,000	2,760,000	379,583	620,658	273,637	368,411	1,642,289	2,884,458	231,395	Below Normal	MEDIAN BELOW	NORMAL
Average	600,000	1,080,000	520,000	1,020,000	3,220,000	379,583	620,658	273,637	368,411	1,642,289	3,160,458	300,923	Above Normal	INTERMEDIATE	BN-AN
Wet	730,000	1,260,000	600,000	1,170,000	3,760,000	379,583	620,658	273,637	368,411	1,642,289	3,484,458	300,923	Above Normal	INTERMEDIATE	BN-AN
May 1 Forecast															
Dry	510,000	930,000	440,000	860,000	2,740,000	380,000	620,000	274,000	368,000	1,642,000	2,872,400	227,096	Below Normal	MEDIAN BELOW	NORMAL
Average	580,000	1,050,000	500,000	1,000,000	3,130,000	380,000	620,000	274,000	368,000	1,642,000	3,106,400	300,923	Above Normal	INTERMEDIATE	BN-AN
Wet	680,000	1,220,000	570,000	1,140,000	3,610,000	380,000	620,000	274,000	368,000	1,642,000	3,394,400	300,923	Above Normal	INTERMEDIATE	BN-AN
May 08 Update															
Dry	520,000	950,000	440,000	880,000	2,790,000	380,000	620,000	274,000	368,000	1,642,000	2,902,400	237,790	Below Normal	MEDIAN BELOW	NORMAL
Average	580,000	1,070,000	500,000	1,020,000	3,170,000	380,000	620,000	274,000	368,000	1,642,000	3,130,400	300,923	Above Normal	INTERMEDIATE	BN-AN
Wet	670,000	1,220,000	560,000	1,140,000	3,590,000	380,000	620,000	274,000	368,000	1,642,000	3,382,400	300,923	Above Normal	INTERMEDIATE	BN-AN
May 15 Update															
Dry	520,000	960,000	440,000	890,000	2,810,000	380,000	620,000	274,000	368,000	1,642,000	2,914,400	242,068	Below Normal	MEDIAN BELOW	NORMAL
Average	570,000	1,070,000	490,000	1,010,000	3,140,000	380,000	620,000	274,000	368,000	1,642,000	3,112,400	300,923	Above Normal	INTERMEDIATE	BN-AN
Wet	650,000	1,210,000	540,000	1,110,000	3,510,000	380,000	620,000	274,000	368,000	1,642,000	3,334,400	300,923	Above Normal	INTERMEDIATE	BN-AN
May 22 Update															
Dry	520,000	980,000	430,000	890,000	2,820,000	380,000	620,000	274,000	368,000	1,642,000	2,920,400	244,206	Below Normal	MEDIAN BELOW	NORMAL
Average	570,000	1,070,000	480,000	1,000,000	3,120,000	380,000	620,000	274,000	368,000	1,642,000	3,100,400	300,923	Above Normal	INTERMEDIATE	BN-AN
Wet	640,000	1,200,000	530,000	1,090,000	3,460,000	380,000	620,000	274,000	368,000	1,642,000	3,304,400	300,923	Above Normal	INTERMEDIATE	BN-AN
May 29 Update															

Table 2

SAN JOAQUIN VALLEY WATER YEAR HYDROLOGIC CLASSIFICATION
602020 INDEX

60-20-20		APRIL-JULY RUNOFF (AF)					OCTOBER-MARCH RUNOFF (AF)					602020		TUOLUMNE RIVER		San Joaquin Index	FERC Index
YEAR		STANISLAUS	TUOLUMNE	MERCED	FRIANT	TOTAL	STANISLAUS	TUOLUMNE	MERCED	FRIANT	TOTAL	INDEX		MINIMUM FLOW REQUIREMENT		(not the FERC Index)	RANKING
Dry		520,000	970,000	420,000	880,000	2,790,000	380,000	620,000	274,000	368,000	1,642,000	2,902,400		237,790		Below Normal	MEDIAN BELOW NORMAL
Average		570,000	1,050,000	460,000	970,000	3,050,000	380,000	620,000	274,000	368,000	1,642,000	3,058,400		293,397		Below Normal	MEDIAN BELOW NORMAL
Wet		630,000	1,170,000	500,000	1,050,000	3,350,000	380,000	620,000	274,000	368,000	1,642,000	3,238,400		300,923		Above Normal	INTERMEDIATE BN-AN
Jun 05 Update																	
Dry		540,000	1,000,000	420,000	890,000	2,850,000	380,000	620,000	274,000	368,000	1,642,000	2,938,400		250,623		Below Normal	MEDIAN BELOW NORMAL
Average		580,000	1,060,000	450,000	970,000	3,060,000	380,000	620,000	274,000	368,000	1,642,000	3,064,400		295,536		Below Normal	MEDIAN BELOW NORMAL
Wet		630,000	1,160,000	490,000	1,040,000	3,320,000	380,000	620,000	274,000	368,000	1,642,000	3,220,400		300,923		Above Normal	INTERMEDIATE BN-AN
Jun 12 Update																	
Dry		550,000	970,000	420,000	880,000	2,820,000	380,000	620,000	274,000	368,000	1,642,000	2,920,400		244,206		Below Normal	MEDIAN BELOW NORMAL
Average		580,000	1,030,000	450,000	950,000	3,010,000	380,000	620,000	274,000	368,000	1,642,000	3,034,400		284,842		Below Normal	MEDIAN BELOW NORMAL
Wet		630,000	1,110,000	490,000	1,020,000	3,250,000	380,000	620,000	274,000	368,000	1,642,000	3,178,400		300,923		Above Normal	INTERMEDIATE BN-AN

Table 3
Proposed Tuolumne River Flow Schedule
Based on DWR Values, 60-20-20 Index for 2018, Hydrologic Conditions
Schedule For 2018-2019 Fish Flow Year

DATE		Number of DAYS	BASE FLOW ¹			PULSE FLOW ²			INTERPOLATION FLOW			Other Adjusted Flow			TOTAL FERC FLOW		Agreed Upon
From:	To:		CFS	AF	ACCUM. A.E.	CFS	AF	ACCUM. A.E.	CFS	AF	ACCUM. A.E.	CFS	AF	ACCUM. A.E.	CFS	ACCUM. A.E.	
15-Apr-2018	15-Apr-2018	1	175	347	347	0	0	0	0	0	0	0	0	0	175	347	1
16-Apr-2018	16-Apr-2018	1	175	347	694	0	0	0	0	0	0	0	0	0	175	694	1
17-Apr-2018	17-Apr-2018	1	175	347	1,041	0	0	0	0	0	0	0	0	0	175	1,041	1
18-Apr-2018	18-Apr-2018	1	175	347	1,388	716	1,419	1,419	0	0	0	0	0	0	891	2,808	1
19-Apr-2018	19-Apr-2018	1	175	347	1,736	1,113	2,208	3,627	0	0	0	0	0	0	1,288	5,363	1
20-Apr-2018	20-Apr-2018	1	175	347	2,083	596	1,183	4,810	0	0	0	0	0	0	771	6,893	1
21-Apr-2018	21-Apr-2018	1	175	347	2,430	199	394	5,205	0	0	0	0	0	0	374	7,634	1
22-Apr-2018	22-Apr-2018	1	175	347	2,777	0	0	5,205	0	0	0	0	0	0	175	7,982	1
23-Apr-2018	23-Apr-2018	1	175	347	3,124	636	1,262	6,466	0	0	0	0	0	0	811	9,590	1
24-Apr-2018	24-Apr-2018	1	175	347	3,471	1,551	3,075	9,542	0	0	0	0	0	0	1,726	13,013	1
25-Apr-2018	25-Apr-2018	1	175	347	3,818	1,193	2,366	11,908	0	0	0	0	0	0	1,368	15,726	1
26-Apr-2018	26-Apr-2018	1	175	347	4,165	954	1,893	13,800	0	0	0	0	0	0	1,129	17,966	1
27-Apr-2018	27-Apr-2018	1	175	347	4,512	795	1,577	15,377	0	0	0	0	0	0	970	19,890	1
28-Apr-2018	28-Apr-2018	1	175	347	4,860	557	1,104	16,481	0	0	0	0	0	0	732	21,341	1
29-Apr-2018	29-Apr-2018	1	175	347	5,207	954	1,893	18,374	0	0	0	0	0	0	1,129	23,581	1
30-Apr-2018	30-Apr-2018	1	175	347	5,554	1,590	3,154	21,528	0	0	0	0	0	0	1,765	27,082	1
01-May-2018	01-May-2018	1	175	347	5,901	2,465	4,889	26,418	0	0	0	0	0	0	2,640	32,318	1
02-May-2018	02-May-2018	1	175	347	6,248	2,067	4,101	30,518	0	0	0	0	0	0	2,242	36,766	1
03-May-2018	03-May-2018	1	175	347	6,595	1,710	3,391	33,909	0	0	0	0	0	0	1,885	40,504	1
04-May-2018	04-May-2018	1	175	347	6,942	1,431	2,839	36,748	0	0	0	0	0	0	1,606	43,690	1
05-May-2018	05-May-2018	1	175	347	7,289	1,232	2,445	39,193	0	0	0	0	0	0	1,407	46,482	1
06-May-2018	06-May-2018	1	175	347	7,636	954	1,893	41,085	0	0	0	0	0	0	1,129	48,722	1
07-May-2018	07-May-2018	1	175	347	7,983	1,749	3,470	44,555	0	0	0	0	0	0	1,924	52,538	1
08-May-2018	08-May-2018	1	175	347	8,331	1,352	2,681	47,236	0	0	0	0	0	0	1,527	55,567	1
09-May-2018	09-May-2018	1	175	347	8,678	1,153	2,287	49,523	0	0	0	0	0	0	1,328	58,201	1
10-May-2018	10-May-2018	1	175	347	9,025	954	1,893	51,416	0	0	0	0	0	0	1,129	60,440	1
11-May-2018	11-May-2018	1	175	347	9,372	795	1,577	52,993	0	0	0	0	0	0	970	62,365	1
12-May-2018	12-May-2018	1	175	347	9,719	676	1,341	54,333	0	0	0	0	0	0	851	64,052	1
13-May-2018	13-May-2018	1	175	347	10,066	557	1,104	55,437	0	0	0	0	0	0	732	65,504	1
14-May-2018	14-May-2018	1	175	347	10,413	477	946	56,384	0	0	0	0	0	0	652	66,797	1
15-May-2018	15-May-2018	1	175	347	10,760	406	804	57,188	0	0	0	0	0	0	581	67,948	1
16-May-2018	16-May-2018	1	175	347	11,107	318	631	57,819	0	0	0	0	0	0	493	68,926	1
17-May-2018	17-May-2018	1	175	347	11,455	278	552	58,371	0	0	0	0	0	0	453	69,826	1
18-May-2018	18-May-2018	1	175	347	11,802	239	473	58,844	0	0	0	0	0	0	414	70,646	1
19-May-2018	19-May-2018	1	175	347	12,149	199	394	59,238	0	0	0	0	0	0	374	71,387	1
20-May-2018	20-May-2018	1	175	347	12,496	159	315	59,554	0	0	0	0	0	0	334	72,050	1
21-May-2018	21-May-2018	1	175	347	12,843	119	237	59,790	0	0	0	0	0	0	294	72,633	1
22-May-2018	22-May-2018	1	175	347	13,190	80	158	59,948	0	0	0	0	0	0	255	73,138	1
23-May-2018	23-May-2018	1	175	347	13,537	40	79	60,027	0	0	0	0	0	0	215	73,564	1
24-May-2018	24-May-2018	1	175	347	13,884	0	0	60,027	0	0	0	0	0	0	175	73,911	1
25-May-2018	25-May-2018	1	175	347	14,231	0	0	60,027	0	0	0	0	0	0	175	74,258	1
26-May-2018	26-May-2018	1	175	347	14,579	0	0	60,027	0	0	0	0	0	0	175	74,606	1
27-May-2018	27-May-2018	1	175	347	14,926	0	0	60,027	0	0	0	0	0	0	175	74,953	1
28-May-2018	28-May-2018	1	175	347	15,273	0	0	60,027	0	0	0	0	0	0	175	75,300	1
29-May-2018	29-May-2018	1	175	347	15,620	0	0	60,027	0	0	0	0	0	0	175	75,647	1
30-May-2018	30-May-2018	1	175	347	15,967	0	0	60,027	0	0	0	0	0	0	175	75,994	1
31-May-2018	31-May-2018	1	175	347	16,314	0	0	60,027	0	0	0	0	0	0	175	76,341	1
01-Jun-2018	01-Jun-2018	1	75	149	16,463	0	0	60,027	0	0	0	0	0	0	75	76,490	1
02-Jun-2018	02-Jun-2018	1	75	149	16,612	0	0	60,027	0	0	0	0	0	0	75	76,639	1
03-Jun-2018	03-Jun-2018	1	75	149	16,760	0	0	60,027	0	0	0	0	0	0	75	76,787	1
04-Jun-2018	04-Jun-2018	1	75	149	16,909	0	0	60,027	0	0	0	0	0	0	75	76,936	1
05-Jun-2018	05-Jun-2018	1	75	149	17,058	0	0	60,027	0	0	0	0	0	0	75	77,085	1
06-Jun-2018	06-Jun-2018	1	75	149	17,207	0	0	60,027	0	0	0	0	0	0	75	77,234	1
07-Jun-2018	07-Jun-2018	1	75	149	17,355	0	0	60,027	0	0	0	0	0	0	75	77,382	1
08-Jun-2018	30-Jun-2018	23	75	3,421	20,777	0	0	60,027	0	0	0	0	0	0	75	80,804	1
01-Jul-2018	31-Jul-2018	31	75	4,612	25,388	0	0	60,027	0	0	0	0	0	0	75	85,415	1
01-Aug-2018	31-Aug-2018	31	75	4,612	30,000	0	0	60,027	0	0	0	0	0	0	75	90,027	1
01-Sep-2018	30-Sep-2018	30	75	4,463	34,463	0	0	60,027	0	0	0	0	0	0	75	94,490	1
01-Oct-2018	01-Oct-2018	1	200	397	34,860	0	0	60,027	0	0	0	0	0	0	200	94,887	1
02-Oct-2018	02-Oct-2018	1	200	397	35,256	0	0	60,027	0	0	0	0	0	0	200	95,283	1
03-Oct-2018	03-Oct-2018	1	200	397	35,653	0	0	60,027	0	0	0	0	0	0	200	95,680	1
04-Oct-2018	04-Oct-2018	1	200	397	36,050	0	0	60,027	0	0	0	0	0	0	200	96,077	1
05-Oct-2018	05-Oct-2018	1	200	397	36,446	0	0	60,027	0	0	0	0	0	0	200	96,473	1
06-Oct-2018	06-Oct-2018	1	200	397	36,843	0	0	60,027	0	0	0	0	0	0	200	96,870	1
07-Oct-2018	07-Oct-2018	1	200	397	37,240	0	0	60,027	0	0	0	0	0	0	200	97,267	1
08-Oct-2018	08-Oct-2018	1	200	397	37,636	0	0	60,027	0	0	0	0					

Table 3
Proposed Tuolumne River Flow Schedule
Based on DWR Values, 60-20-20 Index for 2018, Hydrologic Conditions
Schedule For 2018-2019 Fish Flow Year

DATE		Number of DAYS	BASE FLOW ¹			PULSE FLOW ²			INTERPOLATION FLOW			Other Adjusted Flow			TOTAL FERC FLOW		Agreed Upon
From:	To:		CFS	AF	ACCUM. A.E.	CFS	AF	ACCUM. A.E.	CFS	AF	ACCUM. A.E.	CFS	AF	ACCUM. A.E.	CFS	ACCUM. A.E.	
19-Nov-2018	19-Nov-2018	1	175	347	52,562	0	0	61,763	25	50	27,110	0	0	0	200	141,434	
20-Nov-2018	20-Nov-2018	1	175	347	52,909	0	0	61,763	25	50	27,159	0	0	0	200	141,831	
21-Nov-2018	21-Nov-2018	1	175	347	53,256	0	0	61,763	25	50	27,209	0	0	0	200	142,228	
22-Nov-2018	22-Nov-2018	1	175	347	53,603	0	0	61,763	25	50	27,258	0	0	0	200	142,624	
23-Nov-2018	23-Nov-2018	1	175	347	53,950	0	0	61,763	25	50	27,308	0	0	0	200	143,021	
24-Nov-2018	24-Nov-2018	1	175	347	54,298	0	0	61,763	25	50	27,358	0	0	0	200	143,418	
25-Nov-2018	25-Nov-2018	1	175	347	54,645	0	0	61,763	25	50	27,407	0	0	0	200	143,814	
26-Nov-2018	26-Nov-2018	1	175	347	54,992	0	0	61,763	25	50	27,457	0	0	0	200	144,211	
27-Nov-2018	27-Nov-2018	1	175	347	55,339	0	0	61,763	25	50	27,506	0	0	0	200	144,608	
28-Nov-2018	28-Nov-2018	1	175	347	55,686	0	0	61,763	25	50	27,556	0	0	0	200	145,004	
29-Nov-2018	29-Nov-2018	1	175	347	56,033	0	0	61,763	25	50	27,606	0	0	0	200	145,401	
30-Nov-2018	30-Nov-2018	1	175	347	56,380	0	0	61,763	25	50	27,655	0	0	0	200	145,798	
01-Dec-2018	01-Dec-2018	1	175	347	56,727	0	0	61,763	25	50	27,705	0	0	0	200	146,195	
02-Dec-2018	02-Dec-2018	1	175	347	57,074	0	0	61,763	25	50	27,754	0	0	0	200	146,591	
03-Dec-2018	03-Dec-2018	1	175	347	57,421	0	0	61,763	25	50	27,804	0	0	0	200	146,988	
04-Dec-2018	04-Dec-2018	1	175	347	57,769	0	0	61,763	25	50	27,854	0	0	0	200	147,385	
05-Dec-2018	05-Dec-2018	1	175	347	58,116	0	0	61,763	25	50	27,903	0	0	0	200	147,781	
06-Dec-2018	06-Dec-2018	1	175	347	58,463	0	0	61,763	25	50	27,953	0	0	0	200	148,178	
07-Dec-2018	07-Dec-2018	1	175	347	58,810	0	0	61,763	25	50	28,002	0	0	0	200	148,575	
08-Dec-2018	08-Dec-2018	1	175	347	59,157	0	0	61,763	25	50	28,052	0	0	0	200	148,971	
09-Dec-2018	09-Dec-2018	1	175	347	59,504	0	0	61,763	25	50	28,101	0	0	0	200	149,368	
10-Dec-2018	10-Dec-2018	1	175	347	59,851	0	0	61,763	25	50	28,151	0	0	0	200	149,765	
11-Dec-2018	11-Dec-2018	1	175	347	60,198	0	0	61,763	25	50	28,201	0	0	0	200	150,162	
12-Dec-2018	12-Dec-2018	1	175	347	60,545	0	0	61,763	25	50	28,250	0	0	0	200	150,558	
13-Dec-2018	13-Dec-2018	1	175	347	60,893	0	0	61,763	25	50	28,300	0	0	0	200	150,955	
14-Dec-2018	14-Dec-2018	1	175	347	61,240	0	0	61,763	25	50	28,349	0	0	0	200	151,352	
15-Dec-2018	15-Dec-2018	1	175	347	61,587	0	0	61,763	25	50	28,399	0	0	0	200	151,748	
16-Dec-2018	16-Dec-2018	1	175	347	61,934	0	0	61,763	25	50	28,449	0	0	0	200	152,145	
17-Dec-2018	17-Dec-2018	1	175	347	62,281	0	0	61,763	25	50	28,498	0	0	0	200	152,542	
18-Dec-2018	18-Dec-2018	1	175	347	62,628	0	0	61,763	25	50	28,548	0	0	0	200	152,938	
19-Dec-2018	19-Dec-2018	1	175	347	62,975	0	0	61,763	25	50	28,597	0	0	0	200	153,335	
20-Dec-2018	20-Dec-2018	1	175	347	63,322	0	0	61,763	25	50	28,647	0	0	0	200	153,732	
21-Dec-2018	21-Dec-2018	1	175	347	63,669	0	0	61,763	25	50	28,696	0	0	0	200	154,128	
22-Dec-2018	22-Dec-2018	1	175	347	64,017	0	0	61,763	25	50	28,746	0	0	0	200	154,525	
23-Dec-2018	23-Dec-2018	1	175	347	64,364	0	0	61,763	25	50	28,796	0	0	0	200	154,922	
24-Dec-2018	24-Dec-2018	1	175	347	64,711	0	0	61,763	25	50	28,845	0	0	0	200	155,319	
25-Dec-2018	25-Dec-2018	1	175	347	65,058	0	0	61,763	25	50	28,895	0	0	0	200	155,715	
26-Dec-2018	26-Dec-2018	1	175	347	65,405	0	0	61,763	25	50	28,944	0	0	0	200	156,112	
27-Dec-2018	27-Dec-2018	1	175	347	65,752	0	0	61,763	25	50	28,994	0	0	0	200	156,509	
28-Dec-2018	28-Dec-2018	1	175	347	66,099	0	0	61,763	25	50	29,044	0	0	0	200	156,905	
29-Dec-2018	29-Dec-2018	1	175	347	66,446	0	0	61,763	25	50	29,093	0	0	0	200	157,302	
30-Dec-2018	30-Dec-2018	1	175	347	66,793	0	0	61,763	25	50	29,143	0	0	0	200	157,699	
31-Dec-2018	31-Dec-2018	1	175	347	67,140	0	0	61,763	25	50	29,192	0	0	0	200	158,095	
01-Jan-2019	01-Jan-2019	1	175	347	67,488	0	0	61,763	0	0	29,192	0	0	0	175	158,443	
02-Jan-2019	02-Jan-2019	1	175	347	67,835	0	0	61,763	0	0	29,192	0	0	0	175	158,790	
03-Jan-2019	03-Jan-2019	1	175	347	68,182	0	0	61,763	0	0	29,192	0	0	0	175	159,137	
04-Jan-2019	04-Jan-2019	1	175	347	68,529	0	0	61,763	0	0	29,192	0	0	0	175	159,484	
05-Jan-2019	05-Jan-2019	1	175	347	68,876	0	0	61,763	0	0	29,192	0	0	0	175	159,831	
06-Jan-2019	06-Jan-2019	1	175	347	69,223	0	0	61,763	0	0	29,192	0	0	0	175	160,178	
07-Jan-2019	07-Jan-2019	1	175	347	69,570	0	0	61,763	0	0	29,192	0	0	0	175	160,525	
08-Jan-2019	08-Jan-2019	1	175	347	69,917	0	0	61,763	0	0	29,192	0	0	0	175	160,872	
09-Jan-2019	09-Jan-2019	1	175	347	70,264	0	0	61,763	0	0	29,192	0	0	0	175	161,219	
10-Jan-2019	10-Jan-2019	1	175	347	70,612	0	0	61,763	0	0	29,192	0	0	0	175	161,566	
11-Jan-2019	11-Jan-2019	1	175	347	70,959	0	0	61,763	0	0	29,192	0	0	0	175	161,914	
12-Jan-2019	12-Jan-2019	1	175	347	71,306	0	0	61,763	0	0	29,192	0	0	0	175	162,261	
13-Jan-2019	13-Jan-2019	1	175	347	71,653	0	0	61,763	0	0	29,192	0	0	0	175	162,608	
14-Jan-2019	14-Jan-2019	1	175	347	72,000	0	0	61,763	0	0	29,192	0	0	0	175	162,955	
15-Jan-2019	15-Jan-2019	1	175	347	72,347	0	0	61,763	0	0	29,192	0	0	0	175	163,302	
16-Jan-2019	16-Jan-2019	1	175	347	72,694	0	0	61,763	0	0	29,192	0	0	0	175	163,649	
17-Jan-2019	17-Jan-2019	1	175	347	73,041	0	0	61,763	0	0	29,192	0	0	0	175	163,996	
18-Jan-2019	18-Jan-2019	1	175	347	73,388	0	0	61,763	0	0	29,192	0	0	0	175	164,343	
19-Jan-2019	19-Jan-2019	1	175	347	73,736	0	0	61,763	0	0	29,192	0	0	0	175	164,690	
20-Jan-2019	20-Jan-2019	1	175	347	74,083	0	0	61,763	0	0	29,192	0	0	0	175	165,038	
21-Jan-2019	21-Jan-2019	1	175	347	74,430	0	0	61,763	0	0	29,192	0	0	0	175	165,385	
22-Jan-2019	22-Jan-2019	1	175	347	74,777	0	0	61,									

Table 3
Proposed Tuolumne River Flow Schedule
Based on DWR Values, 60-20-20 Index for 2018, Hydrologic Conditions
Schedule For 2018-2019 Fish Flow Year

DATE		Number of DAYS	BASE FLOW ¹			PULSE FLOW ²			INTERPOLATION FLOW			Other Adjusted Flow			TOTAL FERC FLOW		Agreed Upon
From:	To:		CFS	AF	ACCUM. A.F.	CFS	AF	ACCUM. A.F.	CFS	AF	ACCUM. A.F.	CFS	AF	ACCUM. A.F.	CFS	ACCUM. ¹ A.F.	
06-Mar-2019	06-Mar-2019	1	175	347	89,702	0	0	61,763	864	1,714	45,843	0	0	0	1,039	197,308	
07-Mar-2019	07-Mar-2019	1	175	347	90,050	0	0	61,763	864	1,714	47,557	0	0	0	1,039	199,369	
08-Mar-2019	08-Mar-2019	1	175	347	90,397	0	0	61,763	864	1,714	49,270	0	0	0	1,039	201,429	
09-Mar-2019	09-Mar-2019	1	175	347	90,744	0	0	61,763	864	1,714	50,984	0	0	0	1,039	203,490	
10-Mar-2019	10-Mar-2019	1	175	347	91,091	0	0	61,763	864	1,714	52,697	0	0	0	1,039	205,551	
11-Mar-2019	11-Mar-2019	1	175	347	91,438	0	0	61,763	864	1,714	54,411	0	0	0	1,039	207,611	
12-Mar-2019	12-Mar-2019	1	175	347	91,785	0	0	61,763	864	1,714	56,124	0	0	0	1,039	209,672	
13-Mar-2019	13-Mar-2019	1	175	347	92,132	0	0	61,763	864	1,714	57,838	0	0	0	1,039	211,732	
14-Mar-2019	14-Mar-2019	1	175	347	92,479	0	0	61,763	864	1,714	59,551	0	0	0	1,039	213,793	
15-Mar-2019	15-Mar-2019	1	175	347	92,826	0	0	61,763	864	1,714	61,265	0	0	0	1,039	215,854	
16-Mar-2019	16-Mar-2019	1	175	347	93,174	0	0	61,763	864	1,714	62,978	0	0	0	1,039	217,914	
17-Mar-2019	17-Mar-2019	1	175	347	93,521	0	0	61,763	864	1,714	64,692	0	0	0	1,039	219,975	
18-Mar-2019	18-Mar-2019	1	175	347	93,868	0	0	61,763	2028	4,023	68,715	0	0	0	2,203	224,345	
19-Mar-2019	19-Mar-2019	1	175	347	94,215	0	0	61,763	1690	3,353	72,067	0	0	0	1,865	228,045	
20-Mar-2019	20-Mar-2019	1	175	347	94,562	0	0	61,763	1409	2,794	74,861	0	0	0	1,584	231,185	
21-Mar-2019	21-Mar-2019	1	175	347	94,909	0	0	61,763	1164	2,310	77,170	0	0	0	1,339	233,842	
22-Mar-2019	22-Mar-2019	1	175	347	95,256	0	0	61,763	958	1,900	79,070	0	0	0	1,133	236,089	
23-Mar-2019	23-Mar-2019	1	175	347	95,603	0	0	61,763	864	1,714	80,784	0	0	0	1,039	238,150	
24-Mar-2019	24-Mar-2019	1	175	347	95,950	0	0	61,763	864	1,714	82,497	0	0	0	1,039	240,210	
25-Mar-2019	25-Mar-2019	1	175	347	96,298	0	0	61,763	864	1,714	84,211	0	0	0	1,039	242,271	
26-Mar-2019	26-Mar-2019	1	175	347	96,645	0	0	61,763	864	1,714	85,924	0	0	0	1,039	244,331	
27-Mar-2019	27-Mar-2019	1	175	347	96,992	0	0	61,763	864	1,714	87,638	0	0	0	1,039	246,392	
28-Mar-2019	28-Mar-2019	1	175	347	97,339	0	0	61,763	864	1,714	89,351	0	0	0	1,039	248,453	
29-Mar-2019	29-Mar-2019	1	175	347	97,686	0	0	61,763	864	1,714	91,065	0	0	0	1,039	250,513	
30-Mar-2019	30-Mar-2019	1	175	347	98,033	0	0	61,763	864	1,714	92,778	0	0	0	1,039	252,574	
31-Mar-2019	31-Mar-2019	1	175	347	98,380	0	0	61,763	864	1,714	94,492	0	0	0	1,039	254,634	
01-Apr-2019	01-Apr-2019	1	175	347	98,727	0	0	61,763	1277	2,533	97,025	0	0	0	1,452	257,515	
02-Apr-2019	02-Apr-2019	1	175	347	99,074	0	0	61,763	1052	2,086	99,111	0	0	0	1,227	259,948	
03-Apr-2019	03-Apr-2019	1	175	347	99,421	0	0	61,763	864	1,714	100,824	0	0	0	1,039	262,008	
04-Apr-2019	04-Apr-2019	1	175	347	99,769	0	0	61,763	864	1,714	102,538	0	0	0	1,039	264,069	
05-Apr-2019	05-Apr-2019	1	175	347	100,116	0	0	61,763	864	1,714	104,251	0	0	0	1,039	266,130	
06-Apr-2019	06-Apr-2019	1	175	347	100,463	0	0	61,763	864	1,714	105,965	0	0	0	1,039	268,190	
07-Apr-2019	07-Apr-2019	1	175	347	100,810	0	0	61,763	864	1,714	107,678	0	0	0	1,039	270,251	
08-Apr-2019	08-Apr-2019	1	175	347	101,157	0	0	61,763	864	1,714	109,392	0	0	0	1,039	272,311	
09-Apr-2019	09-Apr-2019	1	175	347	101,504	0	0	61,763	864	1,714	111,105	0	0	0	1,039	274,372	
10-Apr-2019	10-Apr-2019	1	175	347	101,851	0	0	61,763	864	1,714	112,819	0	0	0	1,039	276,433	
11-Apr-2019	11-Apr-2019	1	175	347	102,198	0	0	61,763	864	1,714	114,532	0	0	0	1,039	278,493	
12-Apr-2019	12-Apr-2019	1	175	347	102,545	0	0	61,763	864	1,714	116,246	0	0	0	1,039	280,554	
13-Apr-2019	13-Apr-2019	1	175	347	102,893	0	0	61,763	864	1,714	117,959	0	0	0	1,039	282,614	
14-Apr-2019	14-Apr-2019	1	175	347	103,240	0	0	61,763	864	1,714	119,673	0	0	0	1,039	284,675	
No. of days		365															

1 cfs day = 1.983471 acre-feet (af)

1. Total accumulation amount pertains to 2018-2019 Fish Year only.
2. The pulse flows are a target that represents a daily average target. The actual operational data will be adjusted to attain the annual requirement.

Table 3
Proposed Tuolumne River Flow Schedule
Based on DWR Values, 60-20-20 Index for 2018, Hydrologic Conditions
Schedule For 2018-2019 Fish Flow Year

DATE		Number of DAYS	BASE FLOW ¹			PULSE FLOW ²			INTERPOLATION FLOW			Other Adjusted Flow			TOTAL FERC FLOW		Agreed Upon
From:	To:		CFS	AF	ACCUM. A.E.	CFS	AF	ACCUM. A.E.	CFS	AF	ACCUM. A.E.	CFS	AF	ACCUM. A.E.	CFS	ACCUM. A.E.	
15-Apr-2018	15-Apr-2018	1	175	347	347	0	0	0	0	0	0	0	0	0	175	347	1
16-Apr-2018	16-Apr-2018	1	175	347	694	0	0	0	0	0	0	0	0	0	175	694	1
17-Apr-2018	17-Apr-2018	1	175	347	1,041	0	0	0	0	0	0	0	0	0	175	1,041	1
18-Apr-2018	18-Apr-2018	1	175	347	1,388	716	1,419	1,419	0	0	0	0	0	0	891	2,808	1
19-Apr-2018	19-Apr-2018	1	175	347	1,736	1,113	2,208	3,627	0	0	0	0	0	0	1,288	5,363	1
20-Apr-2018	20-Apr-2018	1	175	347	2,083	596	1,183	4,810	0	0	0	0	0	0	771	6,893	1
21-Apr-2018	21-Apr-2018	1	175	347	2,430	199	394	5,205	0	0	0	0	0	0	374	7,634	1
22-Apr-2018	22-Apr-2018	1	175	347	2,777	0	0	5,205	0	0	0	0	0	0	175	7,982	1
23-Apr-2018	23-Apr-2018	1	175	347	3,124	636	1,262	6,466	0	0	0	0	0	0	811	9,590	1
24-Apr-2018	24-Apr-2018	1	175	347	3,471	1,551	3,075	9,542	0	0	0	0	0	0	1,726	13,013	1
25-Apr-2018	25-Apr-2018	1	175	347	3,818	1,193	2,366	11,908	0	0	0	0	0	0	1,368	15,726	1
26-Apr-2018	26-Apr-2018	1	175	347	4,165	954	1,893	13,800	0	0	0	0	0	0	1,129	17,966	1
27-Apr-2018	27-Apr-2018	1	175	347	4,512	795	1,577	15,377	0	0	0	0	0	0	970	19,890	1
28-Apr-2018	28-Apr-2018	1	175	347	4,860	557	1,104	16,481	0	0	0	0	0	0	732	21,341	1
29-Apr-2018	29-Apr-2018	1	175	347	5,207	954	1,893	18,374	0	0	0	0	0	0	1,129	23,581	1
30-Apr-2018	30-Apr-2018	1	175	347	5,554	1,590	3,154	21,528	0	0	0	0	0	0	1,765	27,082	1
01-May-2018	01-May-2018	1	175	347	5,901	2,465	4,889	26,418	0	0	0	0	0	0	2,640	32,318	1
02-May-2018	02-May-2018	1	175	347	6,248	2,067	4,101	30,518	0	0	0	0	0	0	2,242	36,766	1
03-May-2018	03-May-2018	1	175	347	6,595	1,710	3,391	33,909	0	0	0	0	0	0	1,885	40,504	1
04-May-2018	04-May-2018	1	175	347	6,942	1,431	2,839	36,748	0	0	0	0	0	0	1,606	43,690	1
05-May-2018	05-May-2018	1	175	347	7,289	1,232	2,445	39,193	0	0	0	0	0	0	1,407	46,482	1
06-May-2018	06-May-2018	1	175	347	7,636	954	1,893	41,085	0	0	0	0	0	0	1,129	48,722	1
07-May-2018	07-May-2018	1	175	347	7,983	1,749	3,470	44,555	0	0	0	0	0	0	1,924	52,538	1
08-May-2018	08-May-2018	1	175	347	8,331	1,352	2,681	47,236	0	0	0	0	0	0	1,527	55,567	1
09-May-2018	09-May-2018	1	175	347	8,678	1,153	2,287	49,523	0	0	0	0	0	0	1,328	58,201	1
10-May-2018	10-May-2018	1	175	347	9,025	954	1,893	51,416	0	0	0	0	0	0	1,129	60,440	1
11-May-2018	11-May-2018	1	175	347	9,372	795	1,577	52,993	0	0	0	0	0	0	970	62,365	1
12-May-2018	12-May-2018	1	175	347	9,719	676	1,341	54,333	0	0	0	0	0	0	851	64,052	1
13-May-2018	13-May-2018	1	175	347	10,066	557	1,104	55,437	0	0	0	0	0	0	732	65,504	1
14-May-2018	14-May-2018	1	175	347	10,413	477	946	56,384	0	0	0	0	0	0	652	66,797	1
15-May-2018	15-May-2018	1	175	347	10,760	406	804	57,188	0	0	0	0	0	0	581	67,948	1
16-May-2018	16-May-2018	1	175	347	11,107	318	631	57,819	0	0	0	0	0	0	493	68,926	1
17-May-2018	17-May-2018	1	175	347	11,455	278	552	58,371	0	0	0	0	0	0	453	69,826	1
18-May-2018	18-May-2018	1	175	347	11,802	239	473	58,844	0	0	0	0	0	0	414	70,646	1
19-May-2018	19-May-2018	1	175	347	12,149	199	394	59,238	0	0	0	0	0	0	374	71,387	1
20-May-2018	20-May-2018	1	175	347	12,496	159	315	59,554	0	0	0	0	0	0	334	72,050	1
21-May-2018	21-May-2018	1	175	347	12,843	119	237	59,790	0	0	0	0	0	0	294	72,633	1
22-May-2018	22-May-2018	1	175	347	13,190	80	158	59,948	0	0	0	0	0	0	255	73,138	1
23-May-2018	23-May-2018	1	175	347	13,537	40	79	60,027	0	0	0	0	0	0	215	73,564	1
24-May-2018	24-May-2018	1	175	347	13,884	0	0	60,027	0	0	0	0	0	0	175	73,911	1
25-May-2018	25-May-2018	1	175	347	14,231	0	0	60,027	0	0	0	0	0	0	175	74,258	1
26-May-2018	26-May-2018	1	175	347	14,579	0	0	60,027	0	0	0	0	0	0	175	74,606	1
27-May-2018	27-May-2018	1	175	347	14,926	0	0	60,027	0	0	0	0	0	0	175	74,953	1
28-May-2018	28-May-2018	1	175	347	15,273	0	0	60,027	0	0	0	0	0	0	175	75,300	1
29-May-2018	29-May-2018	1	175	347	15,620	0	0	60,027	0	0	0	0	0	0	175	75,647	1
30-May-2018	30-May-2018	1	175	347	15,967	0	0	60,027	0	0	0	0	0	0	175	75,994	1
31-May-2018	31-May-2018	1	175	347	16,314	0	0	60,027	0	0	0	0	0	0	175	76,341	1
01-Jun-2018	01-Jun-2018	1	75	149	16,463	0	0	60,027	0	0	0	0	0	0	75	76,490	1
02-Jun-2018	02-Jun-2018	1	75	149	16,612	0	0	60,027	0	0	0	0	0	0	75	76,639	1
03-Jun-2018	03-Jun-2018	1	75	149	16,760	0	0	60,027	0	0	0	0	0	0	75	76,787	1
04-Jun-2018	04-Jun-2018	1	75	149	16,909	0	0	60,027	0	0	0	0	0	0	75	76,936	1
05-Jun-2018	05-Jun-2018	1	75	149	17,058	0	0	60,027	0	0	0	0	0	0	75	77,085	1
06-Jun-2018	06-Jun-2018	1	75	149	17,207	0	0	60,027	0	0	0	0	0	0	75	77,234	1
07-Jun-2018	07-Jun-2018	1	75	149	17,355	0	0	60,027	0	0	0	0	0	0	75	77,382	1
08-Jun-2018	30-Jun-2018	23	75	3,421	20,777	0	0	60,027	0	0	0	0	0	0	75	80,804	1
01-Jul-2018	31-Jul-2018	31	75	4,612	25,388	0	0	60,027	0	0	0	0	0	0	75	85,415	1
01-Aug-2018	31-Aug-2018	31	75	4,612	30,000	0	0	60,027	0	0	0	0	0	0	75	90,027	1
01-Sep-2018	30-Sep-2018	30	75	4,463	34,463	0	0	60,027	0	0	0	0	0	0	75	94,490	1
01-Oct-2018	01-Oct-2018	1	200	397	34,860	0	0	60,027	0	0	0	0	0	0	200	94,887	1
02-Oct-2018	02-Oct-2018	1	200	397	35,256	0	0	60,027	0	0	0	0	0	0	200	95,283	1
03-Oct-2018	03-Oct-2018	1	200	397	35,653	0	0	60,027	0	0	0	0	0	0	200	95,680	1
04-Oct-2018	04-Oct-2018	1	200	397	36,050	0	0	60,027	0	0	0	0	0	0	200	96,077	1
05-Oct-2018	05-Oct-2018	1	200	397	36,446	0	0	60,027	0	0	0	0	0	0	200	96,473	1
06-Oct-2018	06-Oct-2018	1	200	397	36,843	0	0	60,027	0	0	0	0	0	0	200	96,870	1
07-Oct-2018	07-Oct-2018	1	200	397	37,240	0	0	60,027	0	0	0	0	0	0	200	97,267	1
08-Oct-2018	08-Oct-2018	1	200	397	37,636	0	0	60,027	0	0	0						

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Proposed Tuolumne River Flow Schedule
Based on DWR Values, 60-20-20 Index for 2018, Hydrologic Conditions
Schedule For 2018-2019 Fish Flow Year

DATE		Number of DAYS	BASE FLOW ¹			PULSE FLOW ²			INTERPOLATION FLOW			Other Adjusted Flow			TOTAL FERC FLOW		Agreed Upon
From:	To:		CFS	AF	ACCUM. A.F.	CFS	AF	ACCUM. A.F.	CFS	AF	ACCUM. A.F.	CFS	AF	ACCUM. A.F.	CFS	ACCUM. ¹ A.F.	
19-Nov-2018	19-Nov-2018	1	175	347	52,562	0	0	61,763	25	50	36,694	0	0	0	200	151,019	
20-Nov-2018	20-Nov-2018	1	175	347	52,909	0	0	61,763	25	50	36,744	0	0	0	200	151,415	
21-Nov-2018	21-Nov-2018	1	175	347	53,256	0	0	61,763	25	50	36,793	0	0	0	200	151,812	
22-Nov-2018	22-Nov-2018	1	175	347	53,603	0	0	61,763	25	50	36,843	0	0	0	200	152,209	
23-Nov-2018	23-Nov-2018	1	175	347	53,950	0	0	61,763	25	50	36,893	0	0	0	200	152,606	
24-Nov-2018	24-Nov-2018	1	175	347	54,298	0	0	61,763	25	50	36,942	0	0	0	200	153,002	
25-Nov-2018	25-Nov-2018	1	175	347	54,645	0	0	61,763	25	50	36,992	0	0	0	200	153,399	
26-Nov-2018	26-Nov-2018	1	175	347	54,992	0	0	61,763	25	50	37,041	0	0	0	200	153,796	
27-Nov-2018	27-Nov-2018	1	175	347	55,339	0	0	61,763	25	50	37,091	0	0	0	200	154,192	
28-Nov-2018	28-Nov-2018	1	175	347	55,686	0	0	61,763	25	50	37,140	0	0	0	200	154,589	
29-Nov-2018	29-Nov-2018	1	175	347	56,033	0	0	61,763	25	50	37,190	0	0	0	200	154,986	
30-Nov-2018	30-Nov-2018	1	175	347	56,380	0	0	61,763	25	50	37,240	0	0	0	200	155,382	
01-Dec-2018	01-Dec-2018	1	175	347	56,727	0	0	61,763	25	50	37,289	0	0	0	200	155,779	
02-Dec-2018	02-Dec-2018	1	175	347	57,074	0	0	61,763	25	50	37,339	0	0	0	200	156,176	
03-Dec-2018	03-Dec-2018	1	175	347	57,421	0	0	61,763	25	50	37,388	0	0	0	200	156,572	
04-Dec-2018	04-Dec-2018	1	175	347	57,769	0	0	61,763	25	50	37,438	0	0	0	200	156,969	
05-Dec-2018	05-Dec-2018	1	175	347	58,116	0	0	61,763	25	50	37,488	0	0	0	200	157,366	
06-Dec-2018	06-Dec-2018	1	175	347	58,463	0	0	61,763	25	50	37,537	0	0	0	200	157,763	
07-Dec-2018	07-Dec-2018	1	175	347	58,810	0	0	61,763	25	50	37,587	0	0	0	200	158,159	
08-Dec-2018	08-Dec-2018	1	175	347	59,157	0	0	61,763	25	50	37,636	0	0	0	200	158,556	
09-Dec-2018	09-Dec-2018	1	175	347	59,504	0	0	61,763	25	50	37,686	0	0	0	200	158,953	
10-Dec-2018	10-Dec-2018	1	175	347	59,851	0	0	61,763	25	50	37,736	0	0	0	200	159,349	
11-Dec-2018	11-Dec-2018	1	175	347	60,198	0	0	61,763	25	50	37,785	0	0	0	200	159,746	
12-Dec-2018	12-Dec-2018	1	175	347	60,545	0	0	61,763	25	50	37,835	0	0	0	200	160,143	
13-Dec-2018	13-Dec-2018	1	175	347	60,893	0	0	61,763	25	50	37,884	0	0	0	200	160,539	
14-Dec-2018	14-Dec-2018	1	175	347	61,240	0	0	61,763	25	50	37,934	0	0	0	200	160,936	
15-Dec-2018	15-Dec-2018	1	175	347	61,587	0	0	61,763	25	50	37,983	0	0	0	200	161,333	
16-Dec-2018	16-Dec-2018	1	175	347	61,934	0	0	61,763	25	50	38,033	0	0	0	200	161,729	
17-Dec-2018	17-Dec-2018	1	175	347	62,281	0	0	61,763	25	50	38,083	0	0	0	200	162,126	
18-Dec-2018	18-Dec-2018	1	175	347	62,628	0	0	61,763	25	50	38,132	0	0	0	200	162,523	
19-Dec-2018	19-Dec-2018	1	175	347	62,975	0	0	61,763	25	50	38,182	0	0	0	200	162,920	
20-Dec-2018	20-Dec-2018	1	175	347	63,322	0	0	61,763	25	50	38,231	0	0	0	200	163,316	
21-Dec-2018	21-Dec-2018	1	175	347	63,669	0	0	61,763	25	50	38,281	0	0	0	200	163,713	
22-Dec-2018	22-Dec-2018	1	175	347	64,017	0	0	61,763	25	50	38,331	0	0	0	200	164,110	
23-Dec-2018	23-Dec-2018	1	175	347	64,364	0	0	61,763	25	50	38,380	0	0	0	200	164,506	
24-Dec-2018	24-Dec-2018	1	175	347	64,711	0	0	61,763	25	50	38,430	0	0	0	200	164,903	
25-Dec-2018	25-Dec-2018	1	175	347	65,058	0	0	61,763	25	50	38,479	0	0	0	200	165,300	
26-Dec-2018	26-Dec-2018	1	175	347	65,405	0	0	61,763	25	50	38,529	0	0	0	200	165,696	
27-Dec-2018	27-Dec-2018	1	175	347	65,752	0	0	61,763	25	50	38,579	0	0	0	200	166,093	
28-Dec-2018	28-Dec-2018	1	175	347	66,099	0	0	61,763	25	50	38,628	0	0	0	200	166,490	
29-Dec-2018	29-Dec-2018	1	175	347	66,446	0	0	61,763	25	50	38,678	0	0	0	200	166,887	
30-Dec-2018	30-Dec-2018	1	175	347	66,793	0	0	61,763	25	50	38,727	0	0	0	200	167,283	
31-Dec-2018	31-Dec-2018	1	175	347	67,140	0	0	61,763	25	50	38,777	0	0	0	200	167,680	
01-Jan-2019	01-Jan-2019	1	175	347	67,488	0	0	61,763	0	0	38,777	0	0	0	175	168,027	
02-Jan-2019	02-Jan-2019	1	175	347	67,835	0	0	61,763	0	0	38,777	0	0	0	175	168,374	
03-Jan-2019	03-Jan-2019	1	175	347	68,182	0	0	61,763	0	0	38,777	0	0	0	175	168,721	
04-Jan-2019	04-Jan-2019	1	175	347	68,529	0	0	61,763	0	0	38,777	0	0	0	175	169,068	
05-Jan-2019	05-Jan-2019	1	175	347	68,876	0	0	61,763	0	0	38,777	0	0	0	175	169,415	
06-Jan-2019	06-Jan-2019	1	175	347	69,223	0	0	61,763	0	0	38,777	0	0	0	175	169,763	
07-Jan-2019	07-Jan-2019	1	175	347	69,570	0	0	61,763	0	0	38,777	0	0	0	175	170,110	
08-Jan-2019	08-Jan-2019	1	175	347	69,917	0	0	61,763	0	0	38,777	0	0	0	175	170,457	
09-Jan-2019	09-Jan-2019	1	175	347	70,264	0	0	61,763	0	0	38,777	0	0	0	175	170,804	
10-Jan-2019	10-Jan-2019	1	175	347	70,612	0	0	61,763	0	0	38,777	0	0	0	175	171,151	
11-Jan-2019	11-Jan-2019	1	175	347	70,959	0	0	61,763	0	0	38,777	0	0	0	175	171,498	
12-Jan-2019	12-Jan-2019	1	175	347	71,306	0	0	61,763	0	0	38,777	0	0	0	175	171,845	
13-Jan-2019	13-Jan-2019	1	175	347	71,653	0	0	61,763	0	0	38,777	0	0	0	175	172,192	
14-Jan-2019	14-Jan-2019	1	175	347	72,000	0	0	61,763	0	0	38,777	0	0	0	175	172,539	
15-Jan-2019	15-Jan-2019	1	175	347	72,347	0	0	61,763	0	0	38,777	0	0	0	175	172,886	
16-Jan-2019	16-Jan-2019	1	175	347	72,694	0	0	61,763	0	0	38,777	0	0	0	175	173,234	
17-Jan-2019	17-Jan-2019	1	175	347	73,041	0	0	61,763	0	0	38,777	0	0	0	175	173,581	
18-Jan-2019	18-Jan-2019	1	175	347	73,388	0	0	61,763	0	0	38,777	0	0	0	175	173,928	
19-Jan-2019	19-Jan-2019	1	175	347	73,736	0	0	61,763	0	0	38,777	0	0	0	175	174,275	
20-Jan-2019	20-Jan-2019	1	175	347	74,083	0	0	61,763	0	0	38,777	0	0	0	175	174,622	
21-Jan-2019	21-Jan-2019	1	175	347	74,430	0	0	61,763	0	0	38,777	0	0	0	175	174,969	
22-Jan-2019	22-Jan-2019	1	175	347	74,777	0											

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DATE		Number of DAYS	BASE FLOW ¹			PULSE FLOW ²			INTERPOLATION FLOW			Other Adjusted Flow			TOTAL FERC FLOW		Agreed Upon
From:	To:		CFS	AF	ACCUM. A.F.	CFS	AF	ACCUM. A.F.	CFS	AF	ACCUM. A.F.	CFS	AF	ACCUM. A.F.	CFS	ACCUM. ¹ A.F.	
06-Mar-2019	06-Mar-2019	1	175	347	89,702	0	0	61,763	772	1,532	53,664	0	0	0	947	205,129	
07-Mar-2019	07-Mar-2019	1	175	347	90,050	0	0	61,763	772	1,532	55,196	0	0	0	947	207,008	
08-Mar-2019	08-Mar-2019	1	175	347	90,397	0	0	61,763	772	1,532	56,728	0	0	0	947	208,887	
09-Mar-2019	09-Mar-2019	1	175	347	90,744	0	0	61,763	772	1,532	58,260	0	0	0	947	210,766	
10-Mar-2019	10-Mar-2019	1	175	347	91,091	0	0	61,763	772	1,532	59,792	0	0	0	947	212,645	
11-Mar-2019	11-Mar-2019	1	175	347	91,438	0	0	61,763	772	1,532	61,324	0	0	0	947	214,524	
12-Mar-2019	12-Mar-2019	1	175	347	91,785	0	0	61,763	772	1,532	62,856	0	0	0	947	216,403	
13-Mar-2019	13-Mar-2019	1	175	347	92,132	0	0	61,763	772	1,532	64,388	0	0	0	947	218,283	
14-Mar-2019	14-Mar-2019	1	175	347	92,479	0	0	61,763	772	1,532	65,920	0	0	0	947	220,162	
15-Mar-2019	15-Mar-2019	1	175	347	92,826	0	0	61,763	772	1,532	67,452	0	0	0	947	222,041	
16-Mar-2019	16-Mar-2019	1	175	347	93,174	0	0	61,763	772	1,532	68,984	0	0	0	947	223,920	
17-Mar-2019	17-Mar-2019	1	175	347	93,521	0	0	61,763	772	1,532	70,516	0	0	0	947	225,799	
18-Mar-2019	18-Mar-2019	1	175	347	93,868	0	0	61,763	1813	3,597	74,113	0	0	0	1,988	229,743	
19-Mar-2019	19-Mar-2019	1	175	347	94,215	0	0	61,763	1511	2,997	77,110	0	0	0	1,686	233,087	
20-Mar-2019	20-Mar-2019	1	175	347	94,562	0	0	61,763	1259	2,498	79,608	0	0	0	1,434	235,932	
21-Mar-2019	21-Mar-2019	1	175	347	94,909	0	0	61,763	1041	2,065	81,673	0	0	0	1,216	238,344	
22-Mar-2019	22-Mar-2019	1	175	347	95,256	0	0	61,763	856	1,699	83,371	0	0	0	1,031	240,390	
23-Mar-2019	23-Mar-2019	1	175	347	95,603	0	0	61,763	772	1,532	84,903	0	0	0	947	242,269	
24-Mar-2019	24-Mar-2019	1	175	347	95,950	0	0	61,763	772	1,532	86,435	0	0	0	947	244,148	
25-Mar-2019	25-Mar-2019	1	175	347	96,298	0	0	61,763	772	1,532	87,967	0	0	0	947	246,027	
26-Mar-2019	26-Mar-2019	1	175	347	96,645	0	0	61,763	772	1,532	89,499	0	0	0	947	247,906	
27-Mar-2019	27-Mar-2019	1	175	347	96,992	0	0	61,763	772	1,532	91,031	0	0	0	947	249,785	
28-Mar-2019	28-Mar-2019	1	175	347	97,339	0	0	61,763	772	1,532	92,563	0	0	0	947	251,665	
29-Mar-2019	29-Mar-2019	1	175	347	97,686	0	0	61,763	772	1,532	94,095	0	0	0	947	253,544	
30-Mar-2019	30-Mar-2019	1	175	347	98,033	0	0	61,763	772	1,532	95,627	0	0	0	947	255,423	
31-Mar-2019	31-Mar-2019	1	175	347	98,380	0	0	61,763	772	1,532	97,159	0	0	0	947	257,302	
01-Apr-2019	01-Apr-2019	1	175	347	98,727	0	0	61,763	1142	2,265	99,424	0	0	0	1,317	259,914	
02-Apr-2019	02-Apr-2019	1	175	347	99,074	0	0	61,763	940	1,865	101,289	0	0	0	1,115	262,126	
03-Apr-2019	03-Apr-2019	1	175	347	99,421	0	0	61,763	772	1,532	102,821	0	0	0	947	264,005	
04-Apr-2019	04-Apr-2019	1	175	347	99,769	0	0	61,763	772	1,532	104,353	0	0	0	947	265,884	
05-Apr-2019	05-Apr-2019	1	175	347	100,116	0	0	61,763	772	1,532	105,885	0	0	0	947	267,763	
06-Apr-2019	06-Apr-2019	1	175	347	100,463	0	0	61,763	772	1,532	107,417	0	0	0	947	269,642	
07-Apr-2019	07-Apr-2019	1	175	347	100,810	0	0	61,763	772	1,532	108,949	0	0	0	947	271,521	
08-Apr-2019	08-Apr-2019	1	175	347	101,157	0	0	61,763	772	1,532	110,481	0	0	0	947	273,400	
09-Apr-2019	09-Apr-2019	1	175	347	101,504	0	0	61,763	772	1,532	112,013	0	0	0	947	275,280	
10-Apr-2019	10-Apr-2019	1	175	347	101,851	0	0	61,763	772	1,532	113,545	0	0	0	947	277,159	
11-Apr-2019	11-Apr-2019	1	175	347	102,198	0	0	61,763	772	1,532	115,077	0	0	0	947	279,038	
12-Apr-2019	12-Apr-2019	1	175	347	102,545	0	0	61,763	772	1,532	116,609	0	0	0	947	280,917	
13-Apr-2019	13-Apr-2019	1	175	347	102,893	0	0	61,763	772	1,532	118,141	0	0	0	947	282,796	
14-Apr-2019	14-Apr-2019	1	175	347	103,240	0	0	61,763	772	1,532	119,673	0	0	0	947	284,675	
No. of days		365															

1 cfs day = 1.983471 acre-feet (af)

1. Total accumulation amount pertains to 2018-2019 Fish Year only.
2. The pulse flows are a target that represents a daily average target. The actual operational data will be adjusted to attain the annual requirement.

Dennett Dam Removal Project Update











Claire Walker Project Manager Informed me that work in the river should be completed by September 21, 2018.

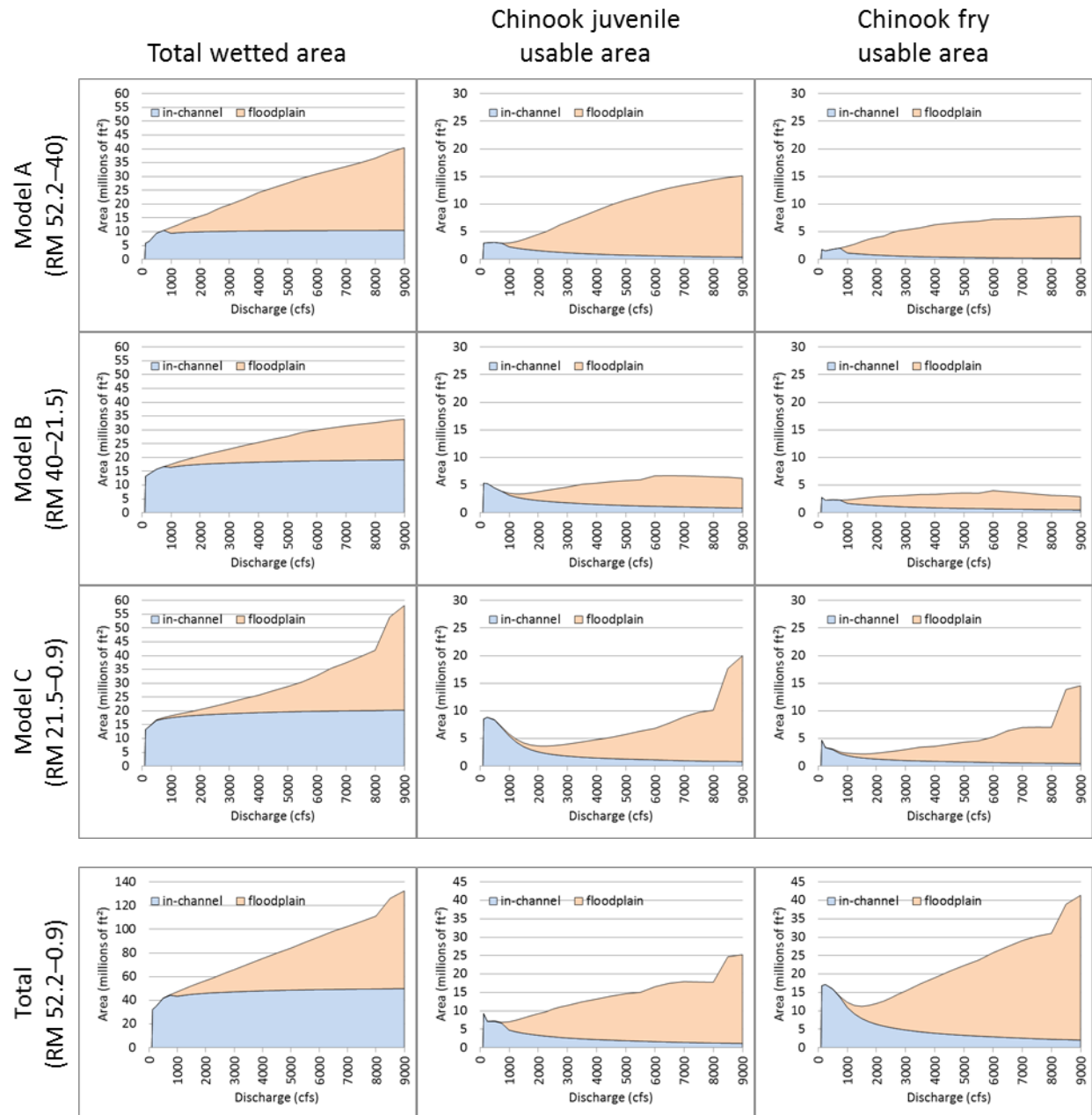


Figure 1. Variations of total wetted area and usable habitat for Chinook salmon fry and juvenile life stages within in-channel and floodplain habitats within three sub-reaches of the lower Tuolumne River as a function of discharge.

Districts' Preferred Plan required minimum instream flows by WY type

		Critical		Dry		Below Normal		Above Normal		Wet	
	Units	Preferred Plan at La Grange	Preferred Plan at RM 26	Preferred Plan at La Grange	Preferred Plan at RM 26	Preferred Plan at La Grange	Preferred Plan at RM 26	Preferred Plan at La Grange	Preferred Plan at RM 26	Preferred Plan at La Grange	Preferred Plan at RM 26
Early Summer 6/1-6/30	cfs	200	75	200	75	200	100	200	100	200	100
Late Summer 7/1-10/15	cfs	300	75	300	75	350	150	350	150	350	150
Flushing Pulse (10/1-10/15)	ac-ft	0	0	0	0	5950	5950	5950	5950	5950	5950
Chinook Spawning Flow 10/16-12/31	cfs	200	200	225	225	275	275	275	275	275	275
Chinook Fry Rearing 1/1-2/29	cfs	175	175	200	200	225	225	225	225	225	225
Chinook Juv Rearing 3/1-4/15	cfs	200	200	225	225	250	250	250	250	250	250
<i>O.mykiss</i> Spawning											
Chinook Rearing-Outmigration	cfs	200	200	250	250	250	250	275	275	275	275
<i>O.mykiss</i> Fry Rearing 4/16-5/15											
Chinook Outmigration 5/16-5/31	cfs	225	225	275	275	300	300	300	300	300	300
<i>O.mykiss</i> Fry Rearing											
Chinook Outmigration Apr-May	TAF	35/11	35/11	75/45	75/45	100	100	150	150	150	150