

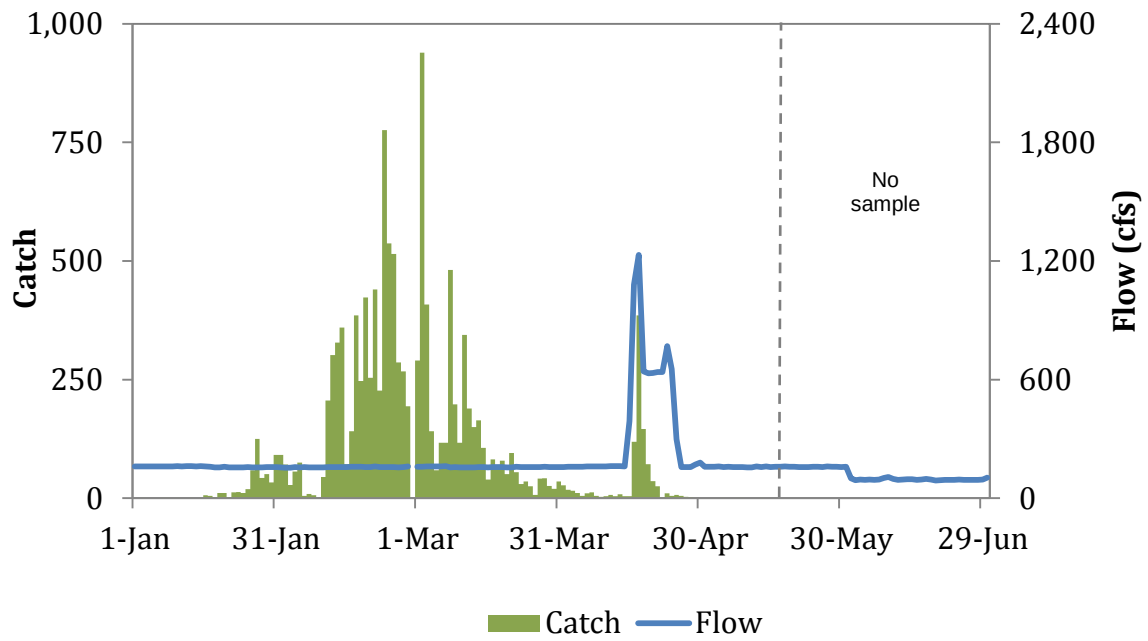


Figure 1. Waterford Chinook catch and Tuolumne River flow at La Grange, 2014.

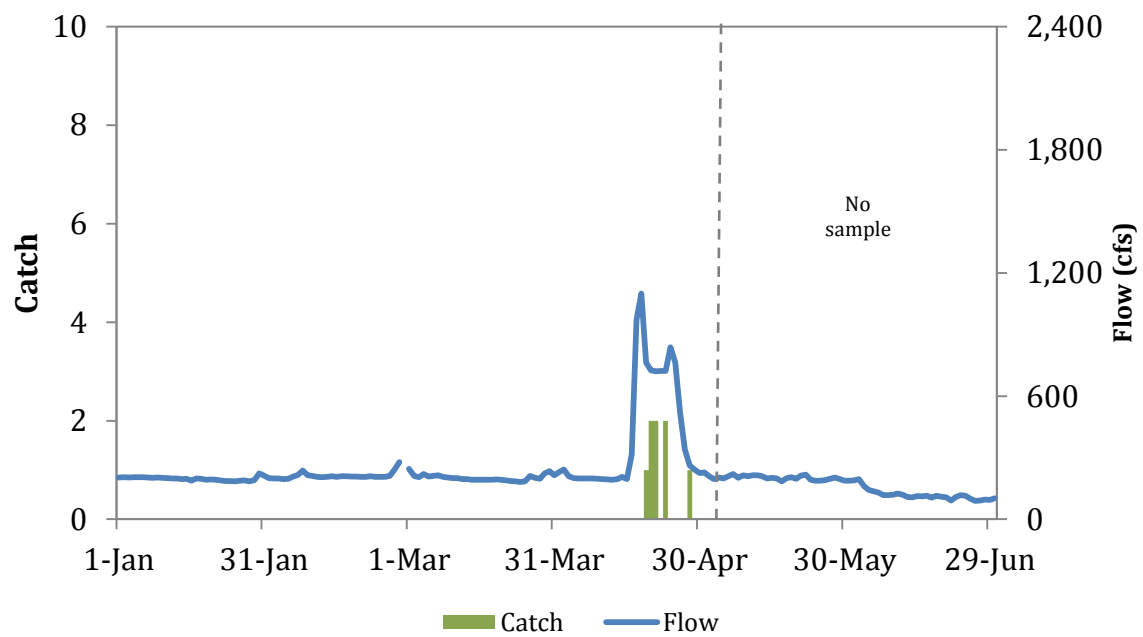


Figure 2. Grayson Chinook catch and Tuolumne River flow at Modesto, 2014.

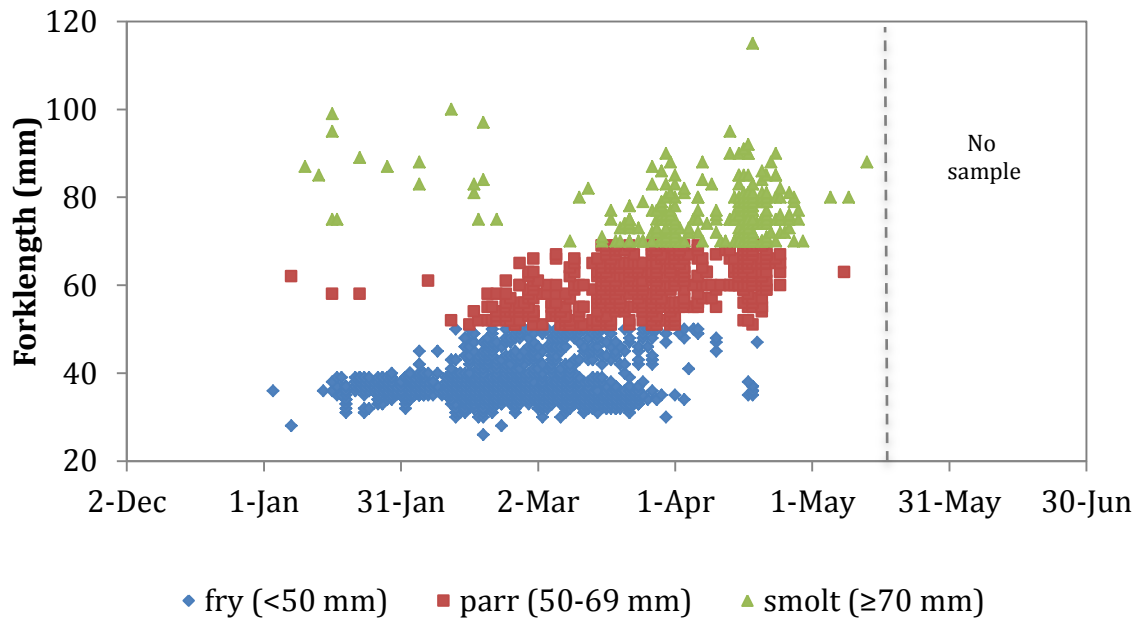


Figure 3. Chinook forklength by lifestage at Waterford, 2014.

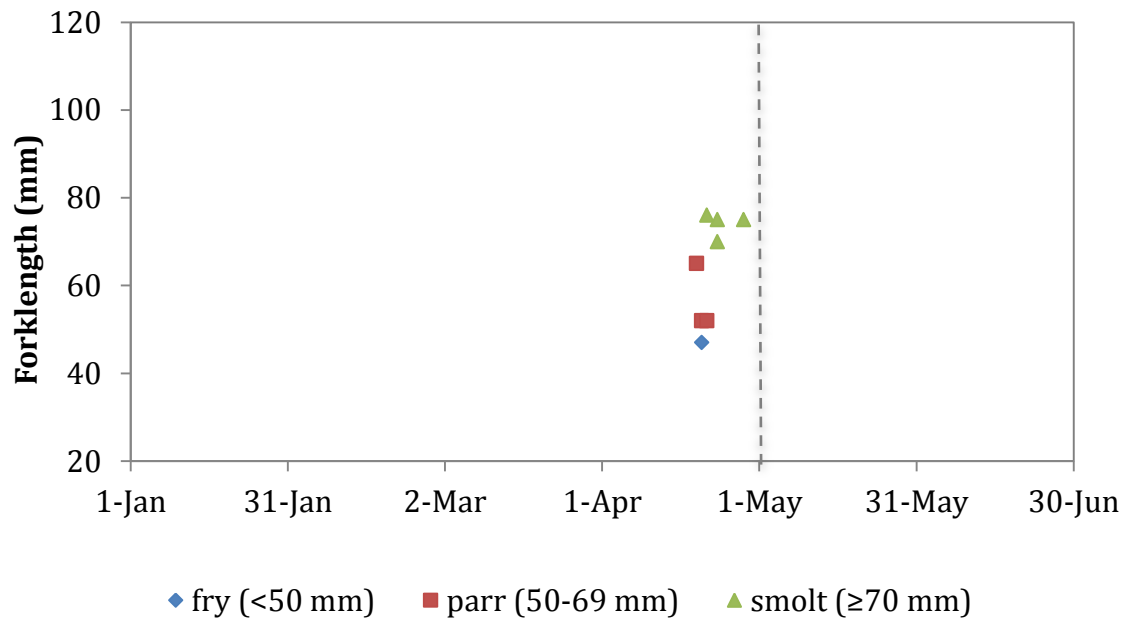


Figure 4. Chinook forklength by lifestage at Grayson, 2014.

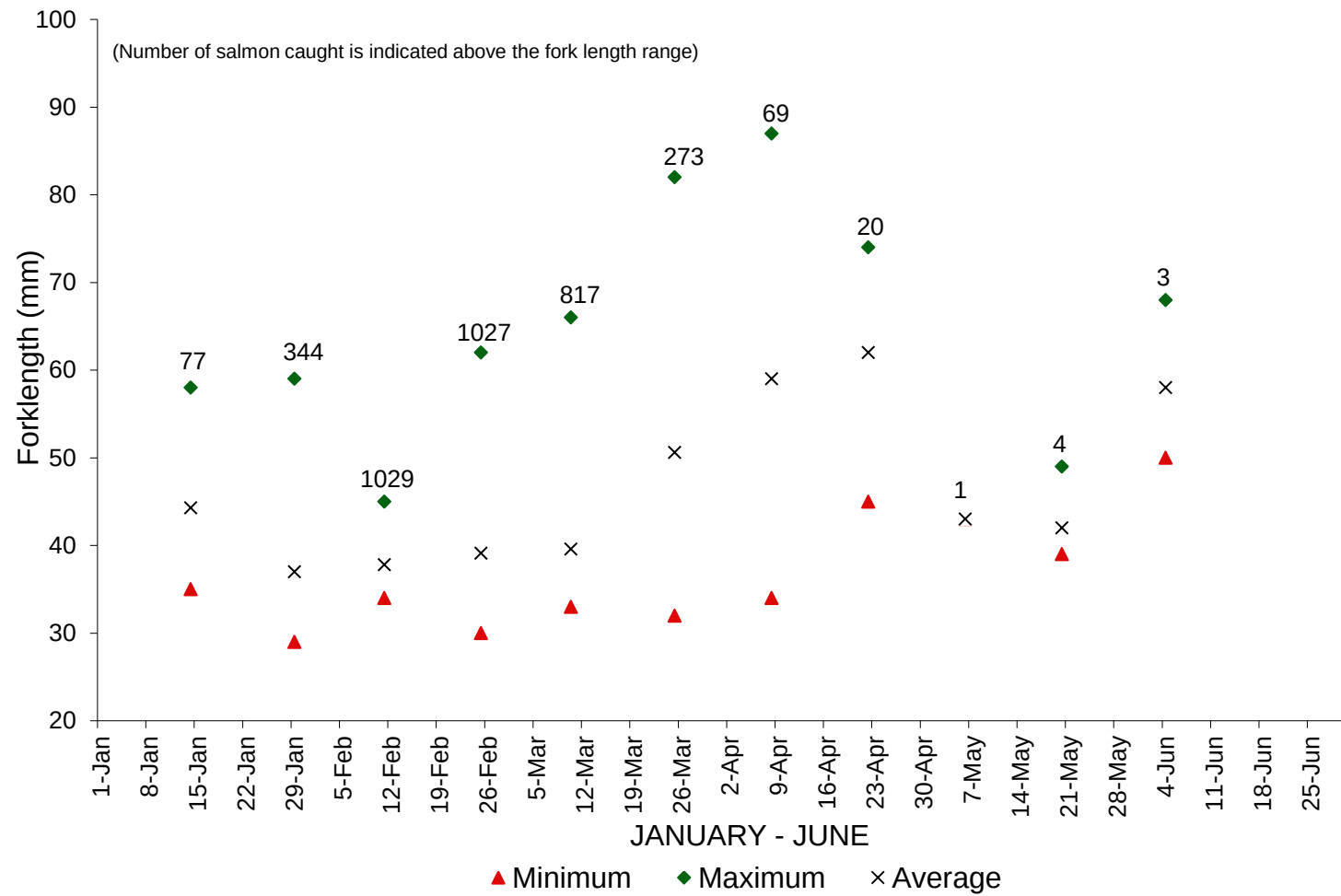


Figure 5. Number and minimum, maximum, and average forklength of Chinook captured during 2014 Tuolumne River seine surveys.

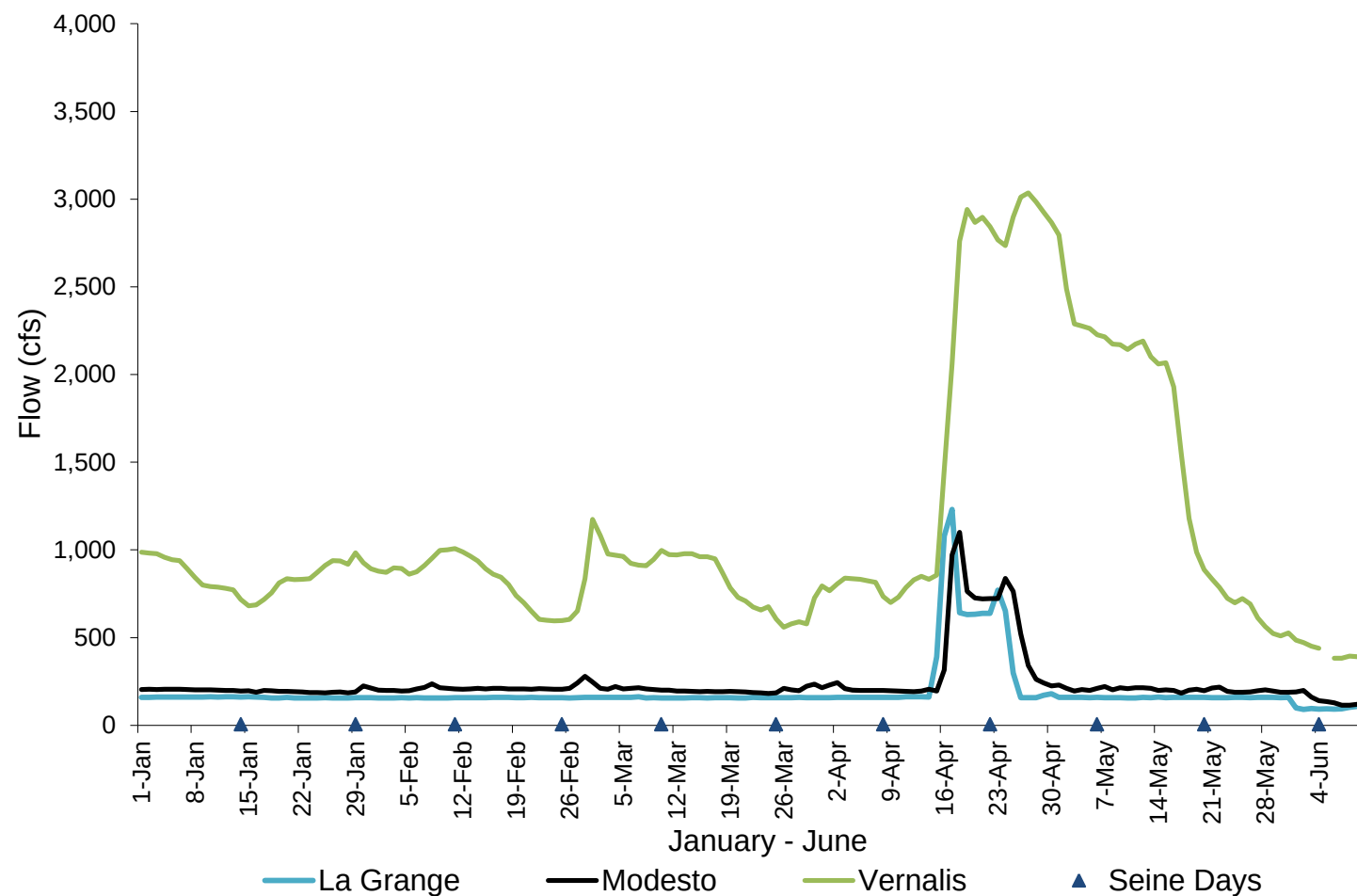
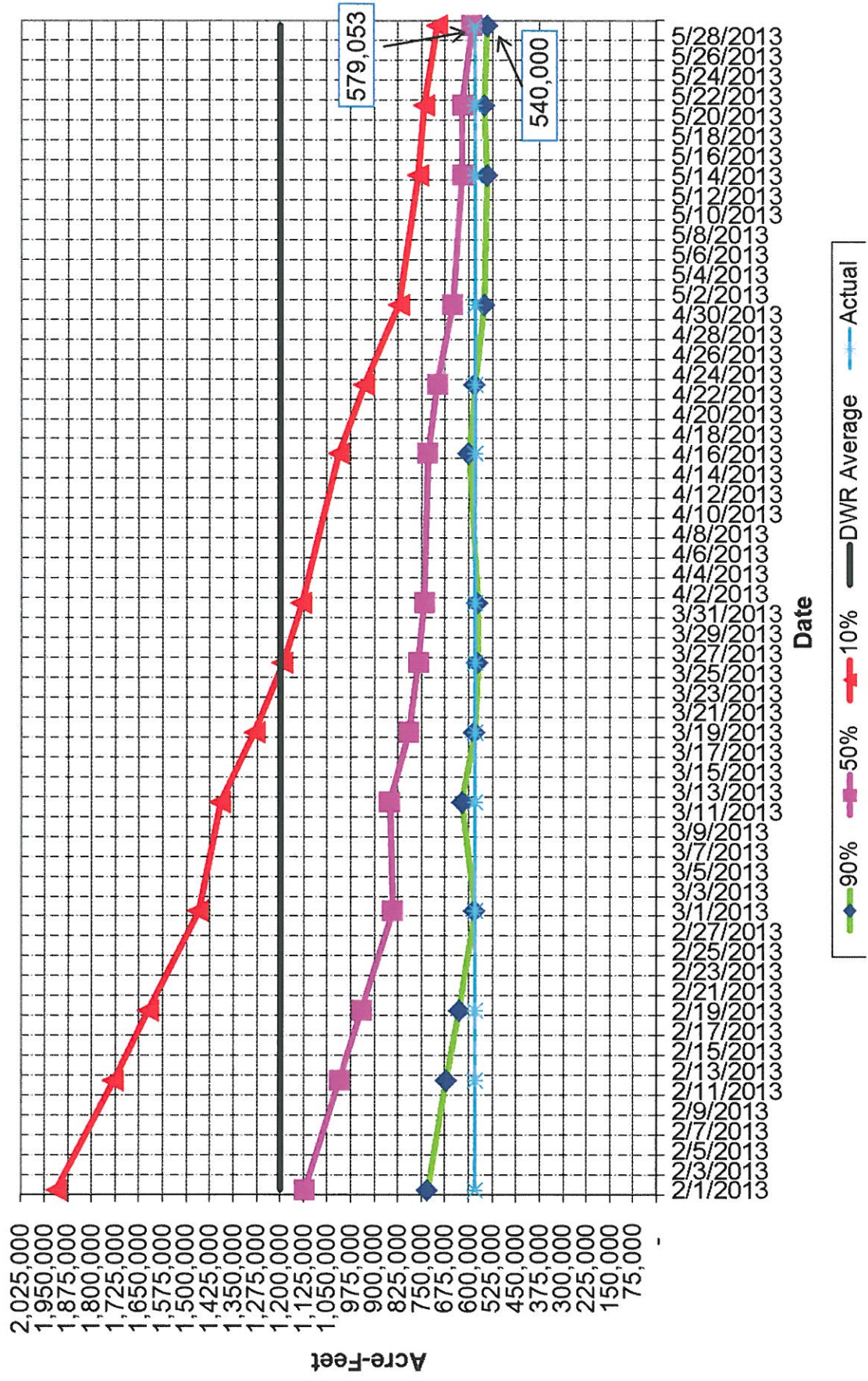


Figure 6. Tuolumne River flow at La Grange and Modesto and San Joaquin River flow at Vernalis during 2014 Tuolumne River seine surveys.

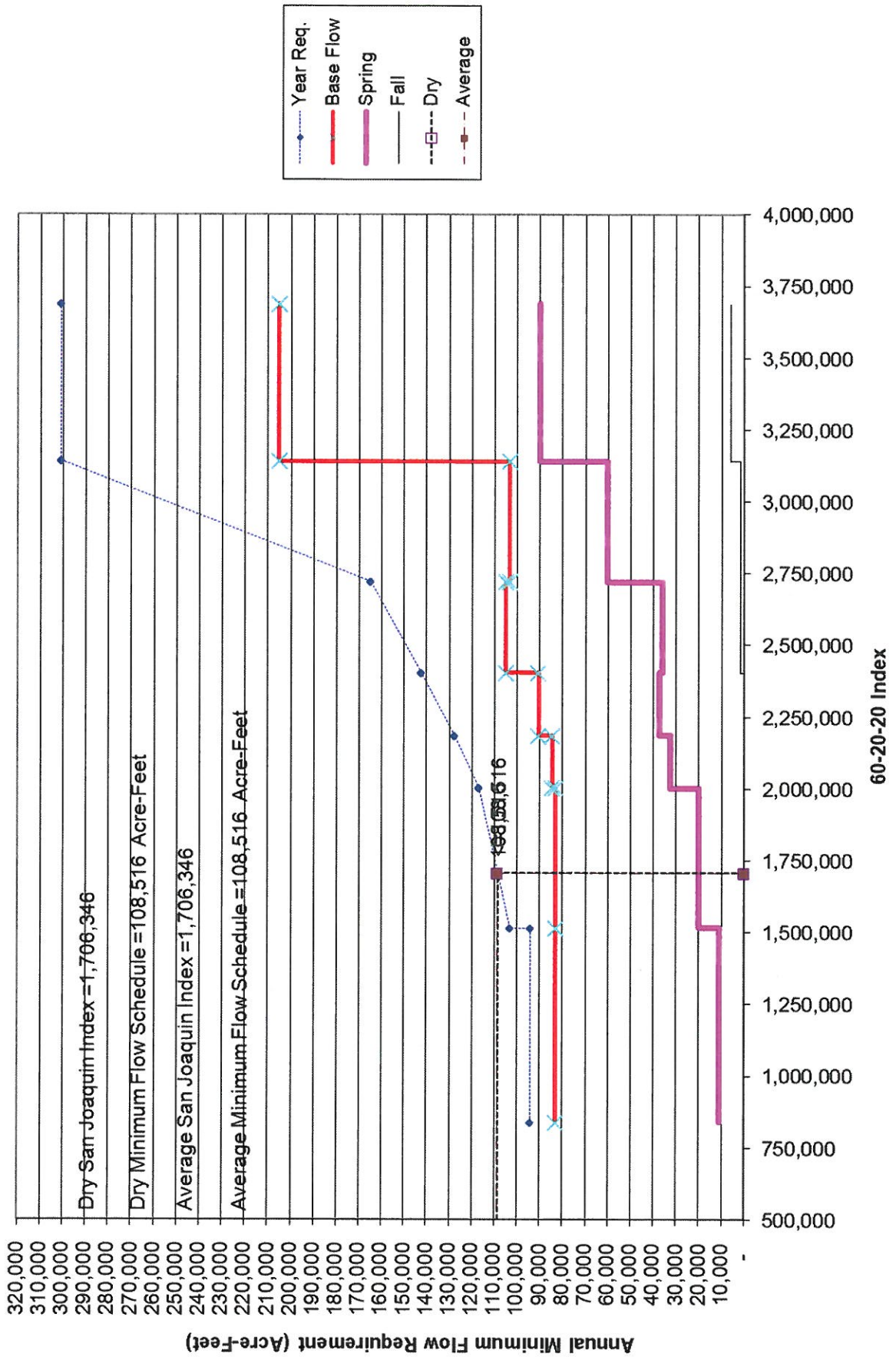
DWR Tuolumne River Forecast (2013 April-July)



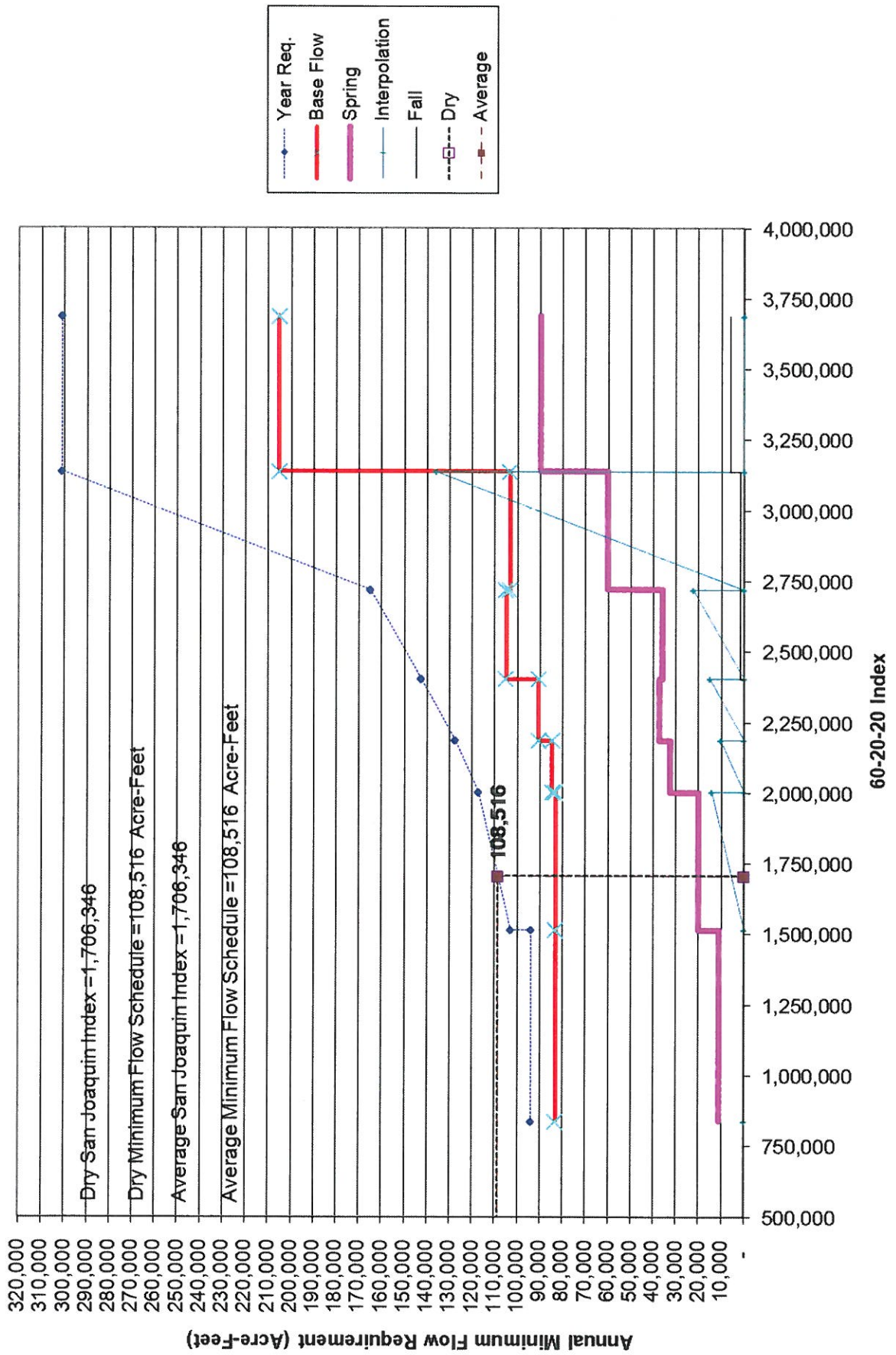
SAN JOAQUIN VALLEY WATER YEAR HYDROLOGIC CLASSIFICATION (Final for 2014) 602020 INDEX

YEAR	STANISLAUS	TULUMINE	APRIL-JULY RUNOFF (AF)			OCTOBER-MARCH RUNOFF (AF)	TOTAL	INDEX	TULUMINE RIER		San Joaquin Index (not the FERC Index)
			MEFORD	PRANT	TOTAL				MINIMUM FLOW REQUIREMENT	127,500 Dry	
12	394,937	609,424	530,976	539,917	1,070,893	244,726	1,315,619	2,148,967	1,700,346	160,516 Critical	
13	289,397	597,042	287,154	510,951	1,873,396	247,327	2,120,723	2,148,967	1,700,346	160,516 Critical	
Feb 1 Forecast											
Dry	400,000	730,000	270,000	770,000	2,270,000	165,000	2,435,000	1,115,000	2,021,973	118,166 Critical	
Average	630,000	1,120,000	530,000	1,130,000	3,430,000	285,000	3,715,000	1,740,000	2,216,973	204,844 Below Normal	
Wet	1,090,000	1,910,000	1,080,000	1,950,000	6,010,000	465,000	6,475,000	3,385,000	4,511,973	300,923 Wet	
Feb 12 Update											
Dry	360,000	670,000	340,000	700,000	2,070,000	165,000	2,235,000	1,115,000	1,901,973	114,143 Critical	
Average	570,000	1,010,000	500,000	1,030,000	3,110,000	285,000	3,395,000	1,740,000	2,250,973	160,289 Below Normal	
Wet	1,000,000	1,730,000	950,000	1,380,000	5,440,000	465,000	5,905,000	3,385,000	4,177,973	300,923 Wet	
Feb 19 Update											
Dry	340,000	630,000	310,000	640,000	1,920,000	165,000	2,085,000	1,115,000	1,811,973	111,554 Critical	
Average	540,000	940,000	480,000	960,000	2,860,000	285,000	3,145,000	1,740,000	2,216,973	130,535 Dry	
Wet	950,000	1,620,000	870,000	1,620,000	5,060,000	465,000	5,525,000	3,385,000	3,948,973	300,923 Wet	
Mar 1 Forecast											
Dry	330,000	580,000	220,000	540,000	1,660,000	165,000	1,825,000	1,160,000	1,670,973	107,488 Critical	
Average	490,000	840,000	380,000	820,000	2,510,000	285,000	2,795,000	1,740,000	2,216,973	129,711 Dry	
Wet	850,000	1,460,000	710,000	1,410,000	4,460,000	465,000	4,925,000	3,385,000	3,464,973	300,923 Above Normal	
Mar 12 Update											
Dry	360,000	620,000	230,000	580,000	1,770,000	165,000	1,935,000	1,190,000	1,738,973	109,307 Critical	
Average	510,000	850,000	360,000	810,000	2,530,000	285,000	2,815,000	1,740,000	2,228,973	130,535 Dry	
Wet	850,000	1,390,000	670,000	1,310,000	4,230,000	465,000	4,695,000	3,385,000	3,320,973	300,923 Above Normal	
Mar 19 Update											
Dry	340,000	580,000	230,000	540,000	1,610,000	165,000	1,775,000	1,190,000	1,640,973	106,835 Critical	
Average	490,000	840,000	380,000	820,000	2,510,000	285,000	2,795,000	1,740,000	2,216,973	129,711 Dry	
Wet	780,000	1,280,000	610,000	1,160,000	3,840,000	465,000	4,305,000	3,385,000	3,082,973	285,964 Below Normal	
Mar 26 Update											
Dry	340,000	570,000	200,000	440,000	1,550,000	165,000	1,715,000	1,190,000	1,604,973	105,600 Critical	
Average	470,000	760,000	310,000	650,000	2,190,000	285,000	2,475,000	1,740,000	2,024,973	118,341 Critical	
Wet	750,000	1,190,000	570,000	1,040,000	3,560,000	465,000	4,025,000	3,385,000	2,919,973	228,504 Below Normal	
Apr 1 Forecast											
Dry	300,000	570,000	210,000	420,000	1,500,000	165,000	1,665,000	1,250,000	1,601,973	105,514 Critical	
Average	420,000	740,000	310,000	610,000	2,080,000	285,000	2,365,000	1,740,000	1,949,973	115,524 Critical	
Wet	670,000	1,130,000	550,000	950,000	3,700,000	465,000	4,165,000	3,385,000	2,681,973	162,290 Below Normal	
Apr 16 Update											
Dry	300,000	560,000	200,000	410,000	1,530,000	165,000	1,695,000	1,250,000	1,619,973	106,031 Critical	
Average	400,000	730,000	300,000	590,000	2,050,000	285,000	2,335,000	1,740,000	1,939,973	115,524 Critical	
Wet	590,000	1,010,000	480,000	840,000	2,890,000	465,000	3,355,000	3,385,000	2,463,973	146,104 Dry	
Apr 23 Update											
Dry	290,000	560,000	210,000	380,000	1,460,000	165,000	1,625,000	1,250,000	1,577,973	104,823 Critical	
Average	390,000	700,000	290,000	540,000	1,910,000	285,000	2,195,000	1,740,000	1,847,973	112,590 Critical	
Wet	530,000	930,000	420,000	710,000	2,640,000	465,000	3,105,000	3,385,000	2,265,973	134,460 Dry	
May 1 Forecast											
Dry	270,000	550,000	200,000	340,000	1,360,000	165,000	1,525,000	1,260,000	1,516,173	103,103 Critical	
Average	360,000	650,000	290,000	470,000	1,760,000	285,000	2,045,000	1,740,000	1,735,173	109,299 Critical	
Wet	450,000	820,000	370,000	600,000	2,310,000	465,000	2,775,000	3,385,000	2,117,351	123,636 Dry	
May 14 Update											
Dry	270,000	540,000	200,000	330,000	1,470,000	165,000	1,635,000	1,260,000	1,541,173	105,002 Critical	
Average	360,000	640,000	280,000	460,000	1,750,000	285,000	2,035,000	1,740,000	1,721,173	115,524 Critical	
Wet	430,000	780,000	350,000	580,000	2,150,000	465,000	2,615,000	3,385,000	2,021,351	118,134 Critical	
May 21 Update											
Dry	270,000	550,000	240,000	450,000	1,510,000	165,000	1,675,000	1,260,000	1,606,173	105,692 Critical	
Average	370,000	670,000	270,000	510,000	1,730,000	285,000	2,015,000	1,740,000	1,715,173	108,781 Critical	
Wet	400,000	740,000	330,000	560,000	2,060,000	465,000	2,525,000	3,385,000	1,979,351	116,369 Critical	
May 28 Update											
Dry	270,000	540,000	240,000	460,000	1,510,000	165,000	1,675,000	1,260,000	1,606,173	105,692 Critical	
Average	370,000	670,000	270,000	510,000	1,730,000	285,000	2,015,000	1,740,000	1,715,173	108,781 Critical	
Wet	350,000	730,000	310,000	580,000	1,940,000	465,000	2,405,000	3,385,000	1,865,351	113,952 Critical	
Jan 00 Update											
Dry	0	0	0	0	0	165,000	165,000	1,260,000	702,173	94,000 Critical	
Average	0	0	0	0	0	285,000	285,000	1,740,000	677,573	94,000 Critical	
Wet	0	0	0	0	0	465,000	465,000	3,385,000	731,351	94,000 Critical	
Jan 06 Update											
Dry	0	0	0	0	0	165,000	165,000	1,260,000	702,173	94,000 Critical	
Average	0	0	0	0	0	285,000	285,000	1,740,000	677,573	94,000 Critical	
Wet	0	0	0	0	0	465,000	465,000	3,385,000	731,351	94,000 Critical	
Manual Cal Den By TID (DWR estimate adjusted for rainfall)											
Dry	42,413	774,812	1,668,927	1,794,812	5,682,962	307,327	6,390,289	3,263,103	1,770,081	110,608 Critical	
Average	40,413	1,411,969	3,042,146	2,040,257	6,895,785	318,765	7,214,550	3,263,103	1,926,372	114,845 Critical	
Wet	58,228	1,997,567	4,719,320	2,942,195	10,257,710	318,765	10,576,475	3,263,103	2,407,512	147,806 Dry	

TUOLUMNE RIVER MINIMUM FLOW REQUIREMENT (Figure 1)
Annual Flow Requirement



TUOLUMNE RIVER MINIMUM FLOW REQUIREMENT (Figure 4)
Interpolation Volume



Tuculume River Flow Schedule
Based On Final Hydrologic Conditions, DWR 60-20-20 Index for 2013
Schedule For 2013-2014 Fish Year

DATE	From	To	Number of DAYS	BASE FLOW			PULSE FLOW ¹			INTERPOLATION FLOW ²			Other Adjusted Flow			TOTAL PERC FLOW		
				CFS	AF	ACCUM A.F.	CFS	AF	ACCUM A.F.	CFS	AF	ACCUM A.F.	CFS	AF	ACCUM A.F.	CFS	AF	ACCUM A.F.
15-Apr-2013	15-Apr-2013		1	150	298	298	400	793	793	0	0	0	0	0	0	550	1,091	
16-Apr-2013	16-Apr-2013		1	150	298	595	200	397	1,190	0	0	0	0	0	0	350	1,785	
17-Apr-2013	17-Apr-2013		1	150	298	893	200	397	1,587	0	0	0	0	0	0	350	2,479	
18-Apr-2013	18-Apr-2013		1	150	298	1,190	200	397	1,983	0	0	0	0	0	0	350	3,174	
19-Apr-2013	19-Apr-2013		1	150	298	1,488	200	397	2,380	0	0	0	0	0	0	350	3,868	
20-Apr-2013	20-Apr-2013		1	150	298	1,785	200	397	2,777	0	0	0	0	0	0	350	4,562	
21-Apr-2013	21-Apr-2013		1	150	298	2,083	400	1,190	3,567	0	0	0	0	0	0	750	6,050	
22-Apr-2013	22-Apr-2013		1	150	298	2,380	400	793	4,360	0	0	0	0	0	0	550	7,140	
23-Apr-2013	23-Apr-2013		1	150	298	2,678	400	793	5,153	0	0	0	0	0	0	550	8,231	
24-Apr-2013	24-Apr-2013		1	150	298	2,975	400	793	5,946	0	0	0	0	0	0	550	9,322	
25-Apr-2013	25-Apr-2013		1	150	298	3,273	400	793	6,739	0	0	0	0	0	0	550	10,413	
26-Apr-2013	26-Apr-2013		1	150	298	3,570	400	793	7,532	0	0	0	0	0	0	550	11,504	
27-Apr-2013	27-Apr-2013		1	150	298	3,868	800	1,587	9,321	0	0	0	0	0	0	950	12,388	
28-Apr-2013	28-Apr-2013		1	150	298	4,165	600	1,190	10,111	0	0	0	0	0	0	750	14,876	
29-Apr-2013	29-Apr-2013		1	150	298	4,463	600	1,190	11,301	0	0	0	0	0	0	750	16,364	
30-Apr-2013	30-Apr-2013		1	150	298	4,760	600	1,190	12,491	0	0	0	0	0	0	750	17,851	
01-May-2013	01-May-2013		1	150	298	5,058	1,000	1,983	16,244	0	0	0	0	0	0	1,150	21,620	
02-May-2013	02-May-2013		1	150	298	5,355	800	1,587	17,831	0	0	0	0	0	0	950	23,504	
03-May-2013	03-May-2013		1	150	298	5,653	550	1,091	18,424	0	0	0	0	0	0	700	24,893	
04-May-2013	04-May-2013		1	150	298	5,950	279	553	19,486	0	0	0	0	0	0	429	25,743	
05-May-2013	05-May-2013		1	150	298	6,248	200	397	19,882	0	0	0	0	0	0	350	26,438	
06-May-2013	06-May-2013		1	150	298	6,545	100	198	20,091	0	0	0	0	0	0	250	26,934	
07-May-2013	07-May-2013		1	150	298	6,843	0	0	20,091	0	0	0	0	0	0	150	27,231	
08-May-2013	08-May-2013		1	150	298	7,140	0	0	20,091	0	0	0	0	0	0	150	27,529	
09-May-2013	09-May-2013		1	150	298	7,438	0	0	20,091	0	0	0	0	0	0	150	27,826	
10-May-2013	10-May-2013		1	150	298	7,736	0	0	20,091	0	0	0	0	0	0	150	28,124	
11-May-2013	11-May-2013		1	150	298	8,033	0	0	20,091	0	0	0	0	0	0	150	28,421	
12-May-2013	12-May-2013		1	150	298	8,331	0	0	20,091	0	0	0	0	0	0	150	28,719	
13-May-2013	13-May-2013		1	150	298	8,628	0	0	20,091	0	0	0	0	0	0	150	29,016	
14-May-2013	14-May-2013		1	150	298	8,926	0	0	20,091	0	0	0	0	0	0	150	29,314	
15-May-2013	15-May-2013		1	150	298	9,223	0	0	20,091	0	0	0	0	0	0	150	29,611	
16-May-2013	16-May-2013		1	150	298	9,521	0	0	20,091	0	0	0	0	0	0	150	29,909	
17-May-2013	17-May-2013		1	150	298	9,818	0	0	20,091	0	0	0	0	0	0	150	30,206	
18-May-2013	18-May-2013		1	150	298	10,116	0	0	20,091	0	0	0	0	0	0	150	30,504	
19-May-2013	19-May-2013		1	150	298	10,413	0	0	20,091	0	0	0	0	0	0	150	30,801	
20-May-2013	20-May-2013		1	150	298	10,711	0	0	20,091	0	0	0	0	0	0	150	31,099	
21-May-2013	21-May-2013		1	150	298	11,008	0	0	20,091	0	0	0	0	0	0	150	31,396	
22-May-2013	22-May-2013		1	150	298	11,306	0	0	20,091	0	0	0	0	0	0	150	31,694	
23-May-2013	23-May-2013		1	150	298	11,603	0	0	20,091	0	0	0	0	0	0	150	31,991	
24-May-2013	24-May-2013		1	150	298	11,901	0	0	20,091	0	0	0	0	0	0	150	32,289	
25-May-2013	25-May-2013		1	150	298	12,198	0	0	20,091	0	0	0	0	0	0	150	32,586	
26-May-2013	26-May-2013		1	150	298	12,496	0	0	20,091	0	0	0	0	0	0	150	32,884	
27-May-2013	27-May-2013		1	150	298	12,793	0	0	20,091	0	0	0	0	0	0	150	33,181	
28-May-2013	28-May-2013		1	150	298	13,091	0	0	20,091	0	0	0	0	0	0	150	33,479	
29-May-2013	29-May-2013		1	150	298	13,388	0	0	20,091	0	0	0	0	0	0	150	33,777	
30-May-2013	30-May-2013		1	150	298	13,686	0	0	20,091	0	0	0	0	0	0	150	34,074	
31-May-2013	31-May-2013		1	150	298	13,983	0	0	20,091	0	0	0	0	0	0	150	34,372	
01-Jun-2013	01-Jun-2013		1	50	99	14,083	0	0	20,091	0	0	0	0	0	0	50	34,471	
02-Jun-2013	02-Jun-2013		1	50	99	14,182	0	0	20,091	0	0	0	0	0	0	50	34,570	
03-Jun-2013	03-Jun-2013		1	50	99	14,281	0	0	20,091	0	0	0	0	0	0	50	34,669	
04-Jun-2013	04-Jun-2013		1	50	99	14,380	0	0	20,091	0	0	0	0	0	0	50	37,049	
05-Jun-2013	05-Jun-2013		1	50	99	14,479	0	0	20,091	0	0	0	0	0	0	50	40,124	
06-Jun-2013	06-Jun-2013		1	50	99	14,579	0	0	20,091	0	0	0	0	0	0	50	43,198	
07-Jun-2013	07-Jun-2013		24	50	2,380	16,959	0	0	20,091	0	0	0	0	0	0	50	46,173	
08-Jun-2013	08-Jun-2013		31	50	3,074	20,033	0	0	20,091	0	0	0	0	0	0	126	52,162	
09-Jun-2013	09-Jun-2013		30	50	3,074	23,107	0	0	20,091	0	0	0	0	0	0	126	52,162	
10-Jun-2013	10-Jun-2013		30	50	2,975	26,083	0	0	20,091	0	0	0	0	0	0	126	52,162	
11-Jun-2013	11-Jun-2013		24	126	5,989	32,071	0	0	20,091	0	0	0	0	0	0	126	52,162	
12-Jun-2013	12-Jun-2013		24	126	5,989	32,071	0	0	20,091	0	0	0	0	0	0	126	52,162	
13-Jun-2013	13-Jun-2013		1	126	5,989	32,371	0	0	20,091	0	0	0	0	0	0	126	52,162	
14-Jun-2013	14-Jun-2013		1	126	5,989	32,371	0	0	20,091	0	0	0	0	0	0	126	52,162	
15-Jun-2013	15-Jun-2013		1	126	5,989	32,371	0	0	20,091	0	0	0	0	0	0	126	52,162	
16-Jun-2013	16-Jun-2013		1	126	5,989	32,371	0	0	20,091	0	0	0	0	0	0	126	52,162	
17-Jun-2013	17-Jun-2013		1	126	5,989	32,371	0	0	20,091	0	0	0	0	0	0	126	52,162	
18-Jun-2013	18-Jun-2013		1	126	5,989	32,371	0	0	20,091	0	0	0	0	0	0	126	52,162	
19-Jun-2013	19-Jun-2013		1	126	5,989	32,371	0	0	20,091	0	0	0	0	0	0	126	52,162	
20-Jun-2013	20-Jun-2013		1	126	5,989	32,371	0	0	20,091	0	0	0	0	0	0	126	52,162	
21-Jun-2013	21-Jun-2013		1	126	5,989	32,371	0	0	20,091	0	0	0	0	0	0	126	52,162	
22-Jun-2013	22-Jun-2013		1	126	5,989	32,371	0	0	20,091	0	0	0	0	0	0	126	52,162	
23-Jun-2013	23-Jun-2013		1	126	5,989	32,371	0	0	20,091	0	0	0	0	0	0	126	52,162	
24-Jun-2013	24-Jun-2013		1	126	5,989	32,371	0	0	20,091	0	0	0	0	0	0	126	52,162	
25-Jun-2013	25-Jun-2013		1	126	5,989	32,371	0	0	20,091	0	0	0	0	0	0	126	52,162	
26-Jun-2013	26-Jun-2013		1	126	5,989	32,371	0	0	20,091	0	0	0	0	0	0	126	52,162	