

Water Report

June 27, 2017

- Weather Forecast
- Status of Watershed
- CCSF Reservoir Storage and Operations
- Don Pedro Reservoir Storage and Operations



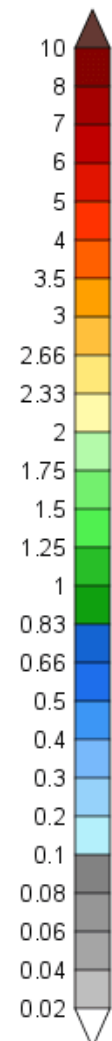
Precipitation Forecasts

Precipitation (in)
during the period:

Mon, 26 JUN 2017 at 12Z

-to-

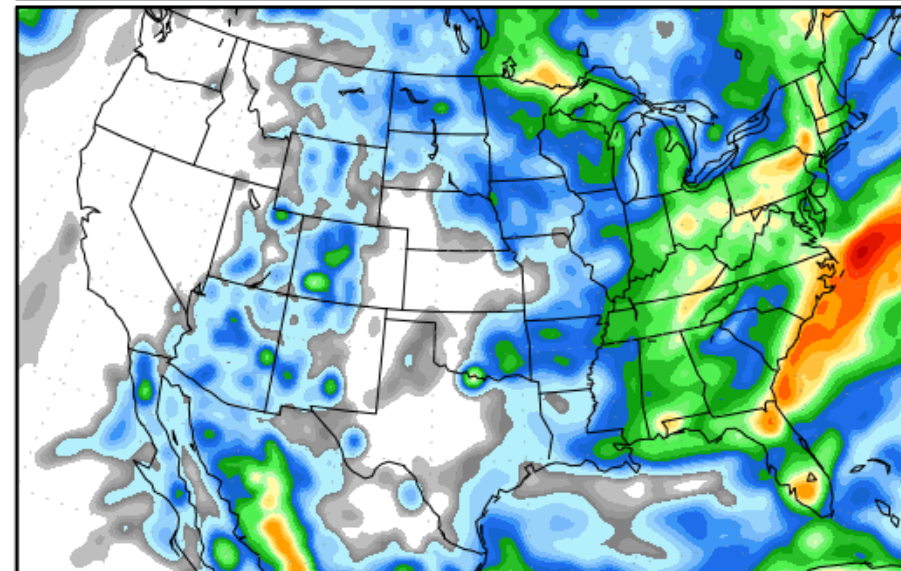
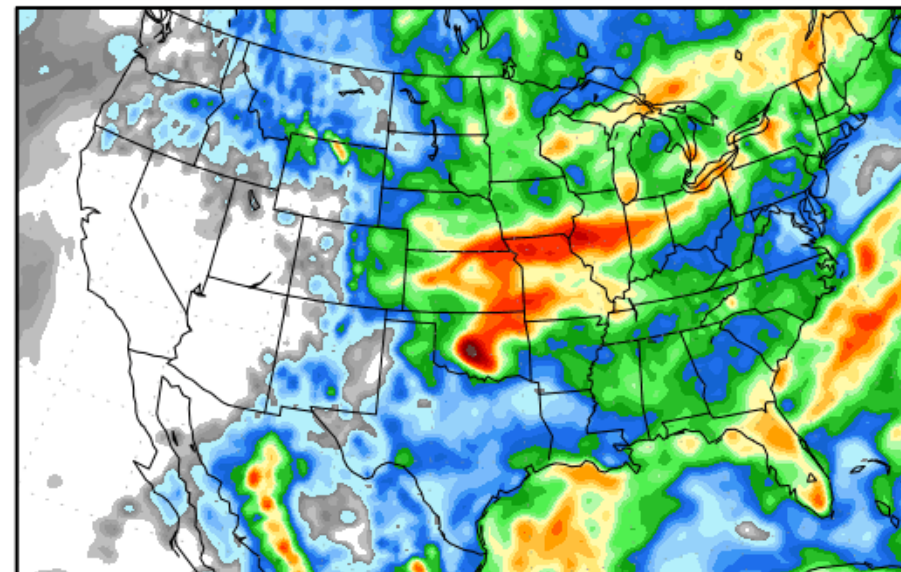
Tue, 04 JUL 2017 at 12Z



Tue, 04 JUL 2017 at 12Z

-to-

Wed, 12 JUL 2017 at 12Z

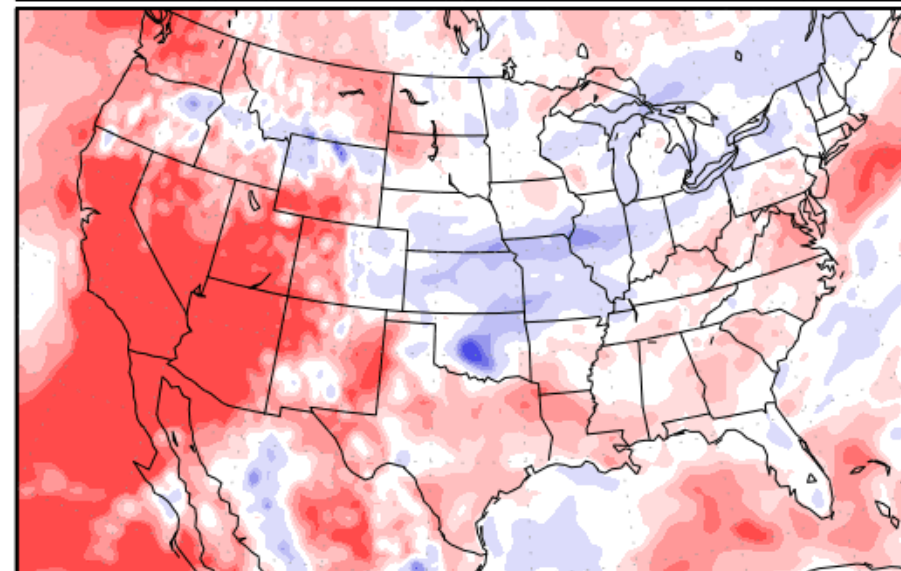
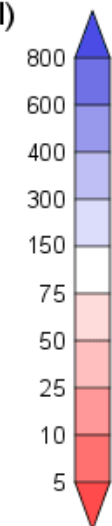


Precipitation (% of normal)
during the first period:

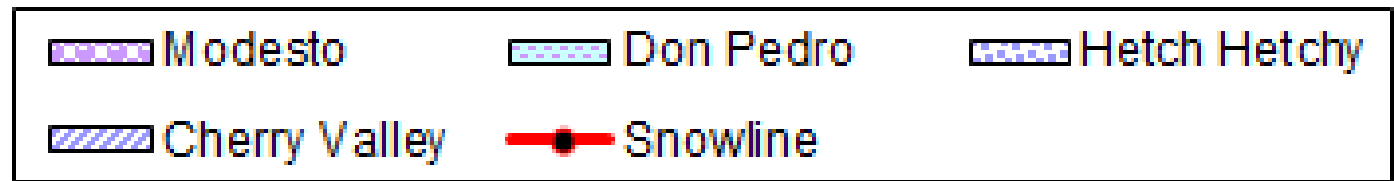
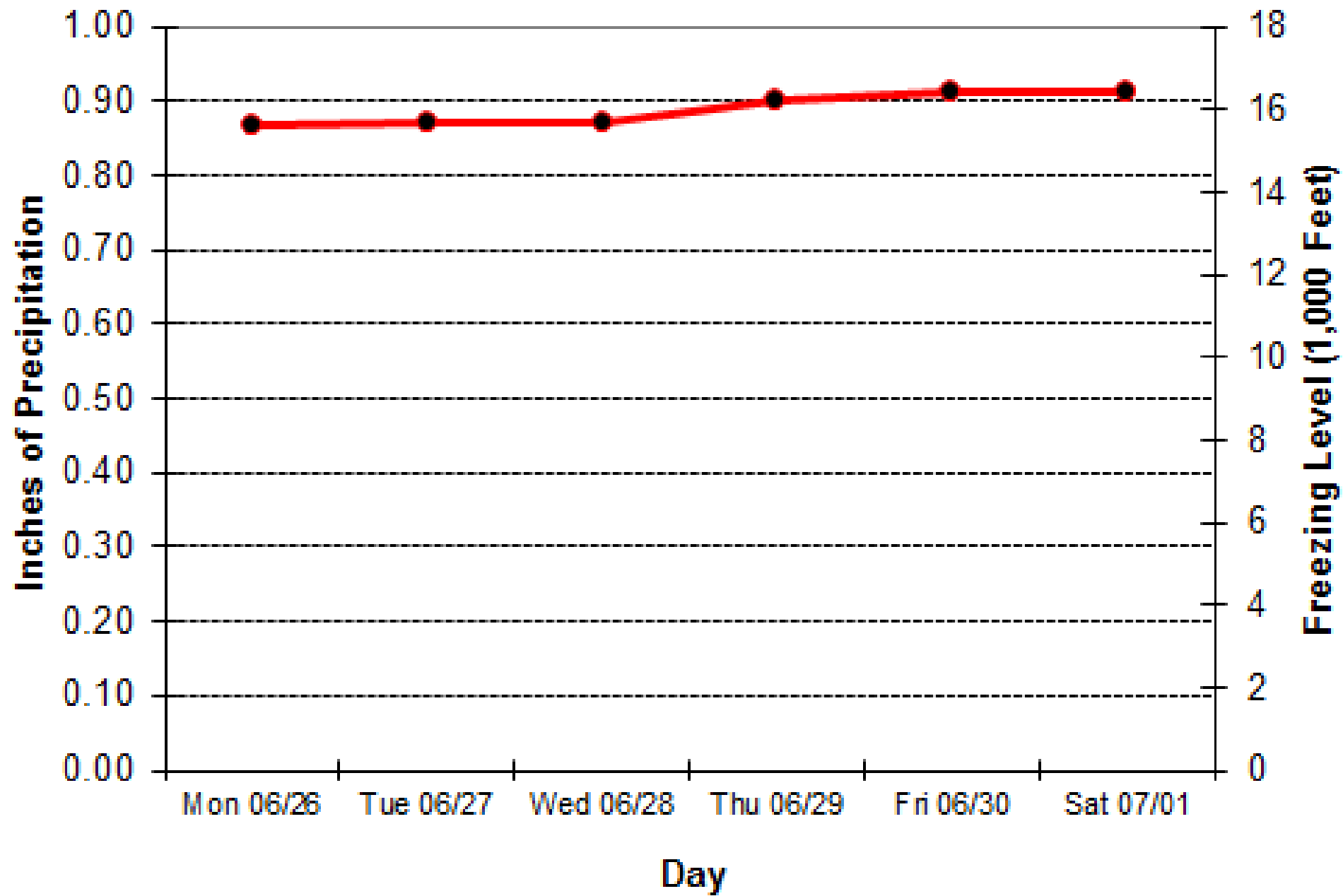
Mon, 26 JUN 2017 at 12Z

-to-

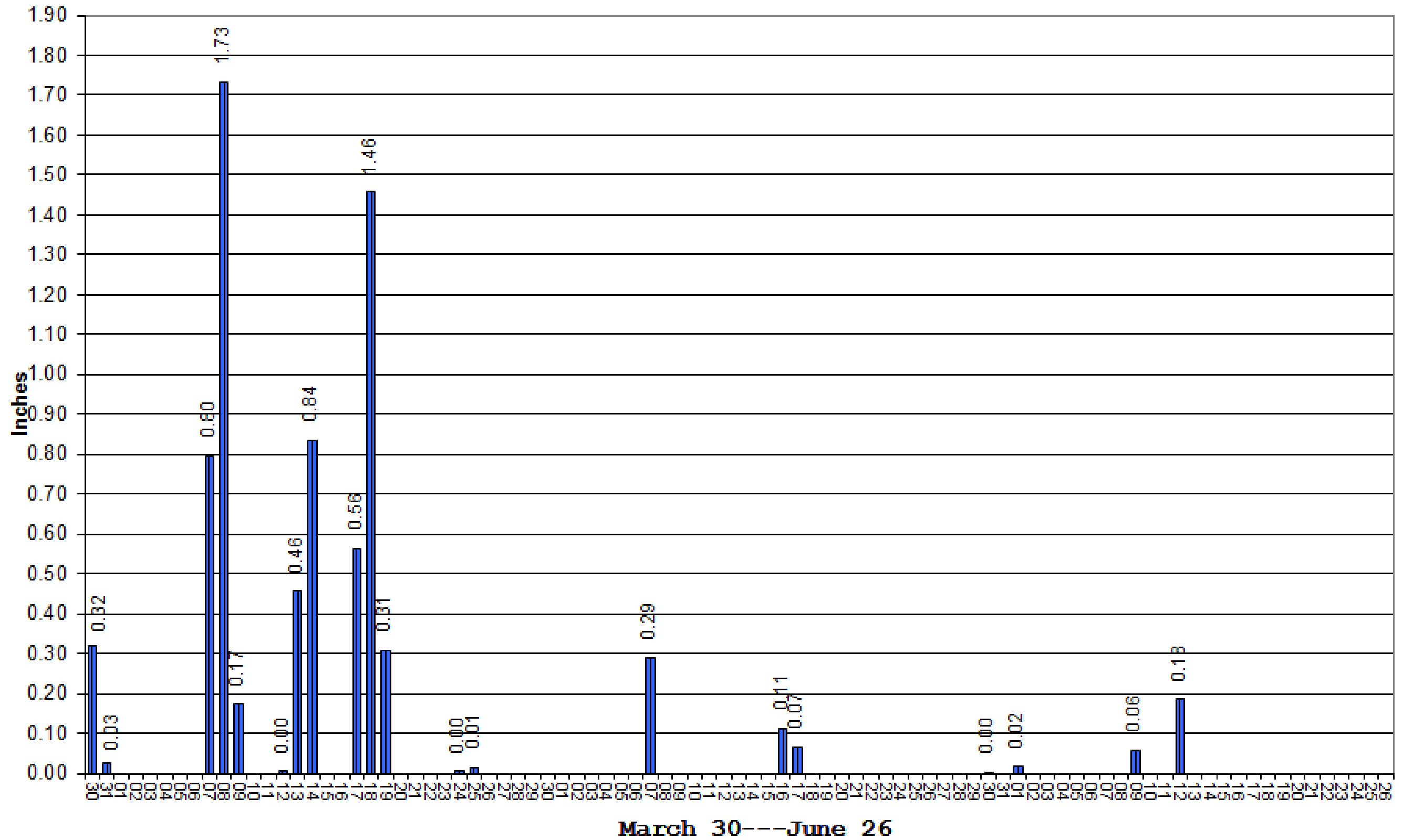
Tue, 04 JUL 2017 at 12Z



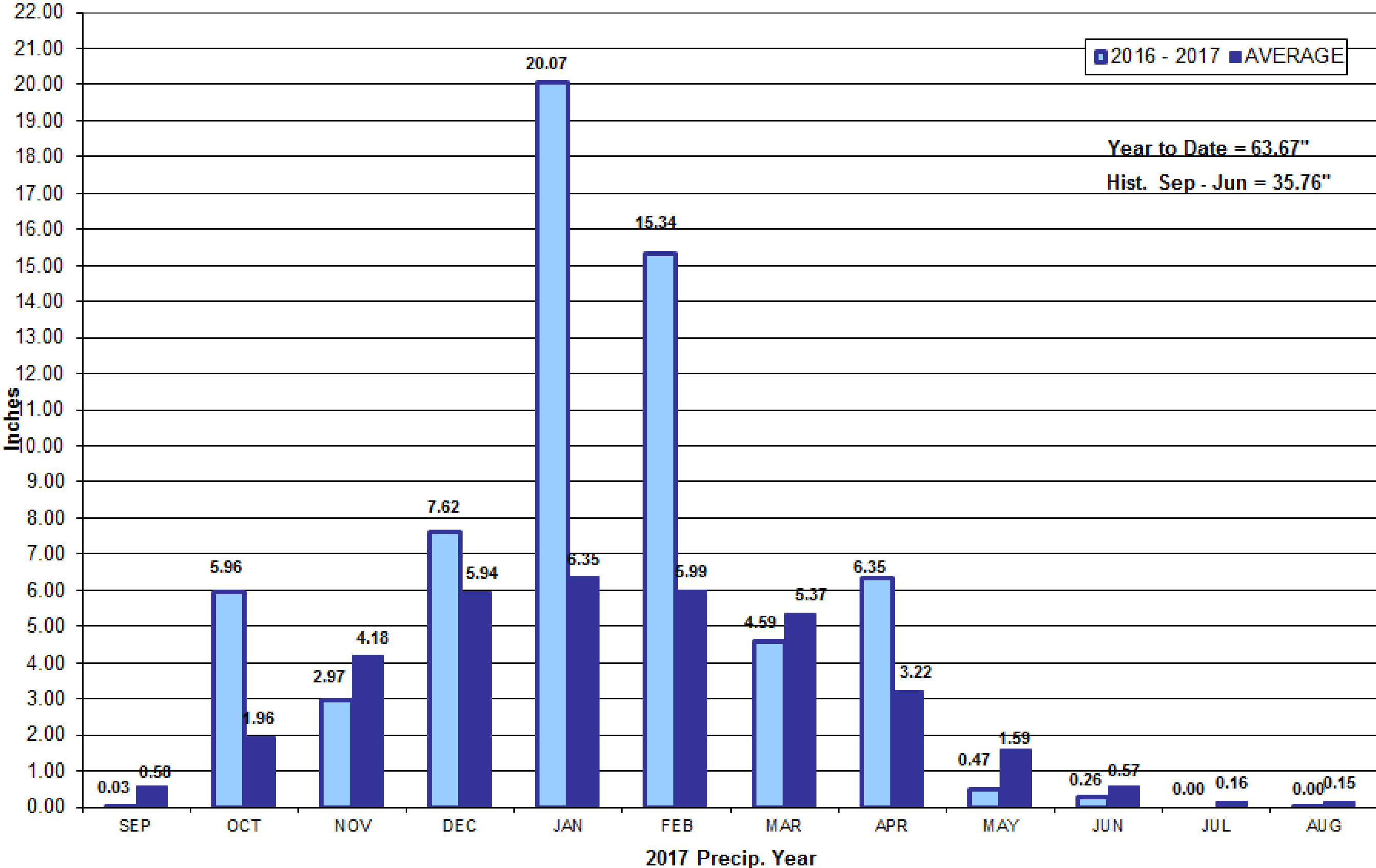
Precipitation forecasts from the National Centers for Environmental Prediction.
Normal rainfall derived from Xie-Arkin (CMAP) Monthly Climatology for 1979-2003.
Forecast Initialization Time: 12Z26JUN2017



Watershed Daily Precipitation

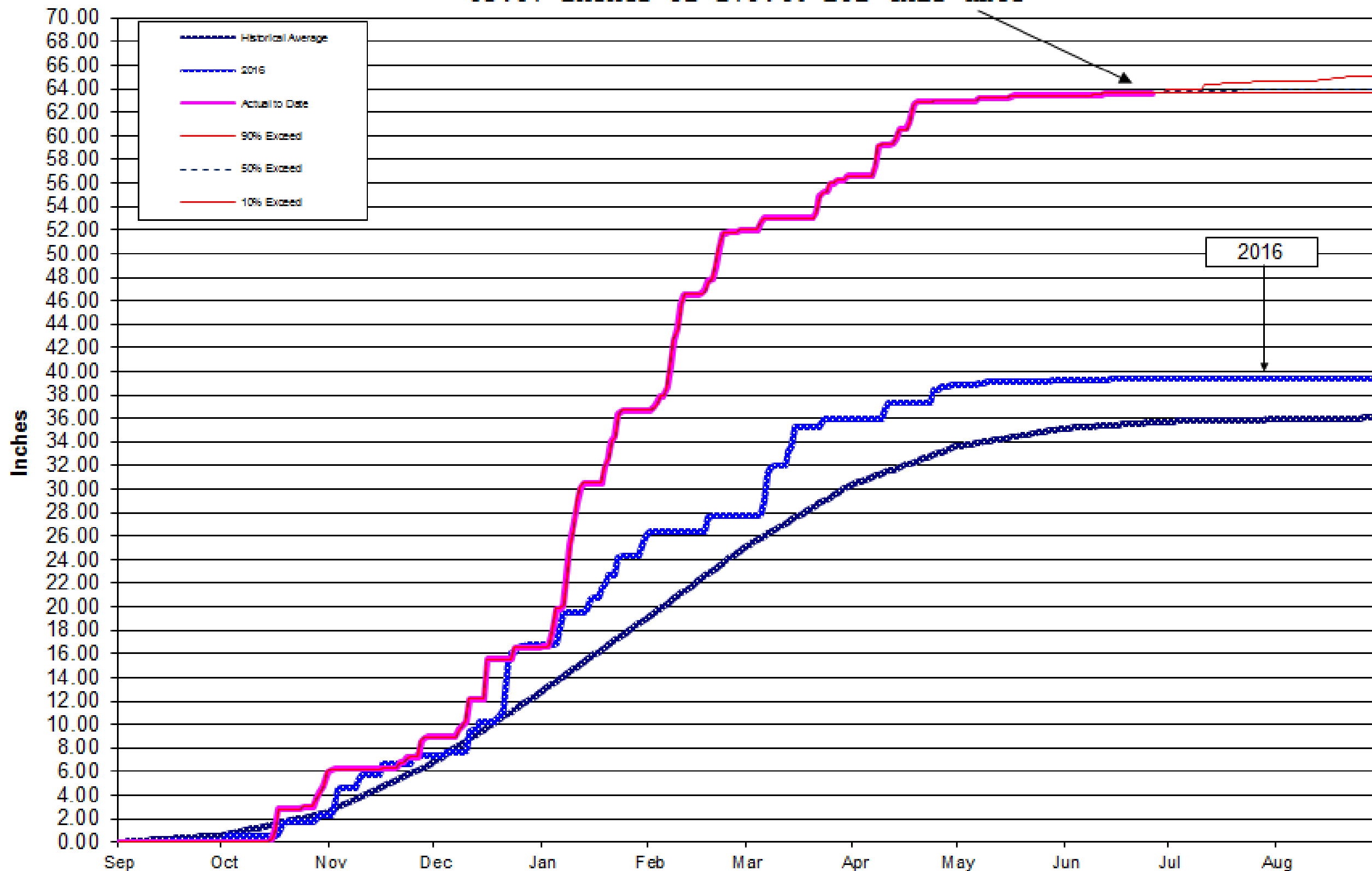


Tuolumne River Watershed Monthly Accumulation of Precipitation



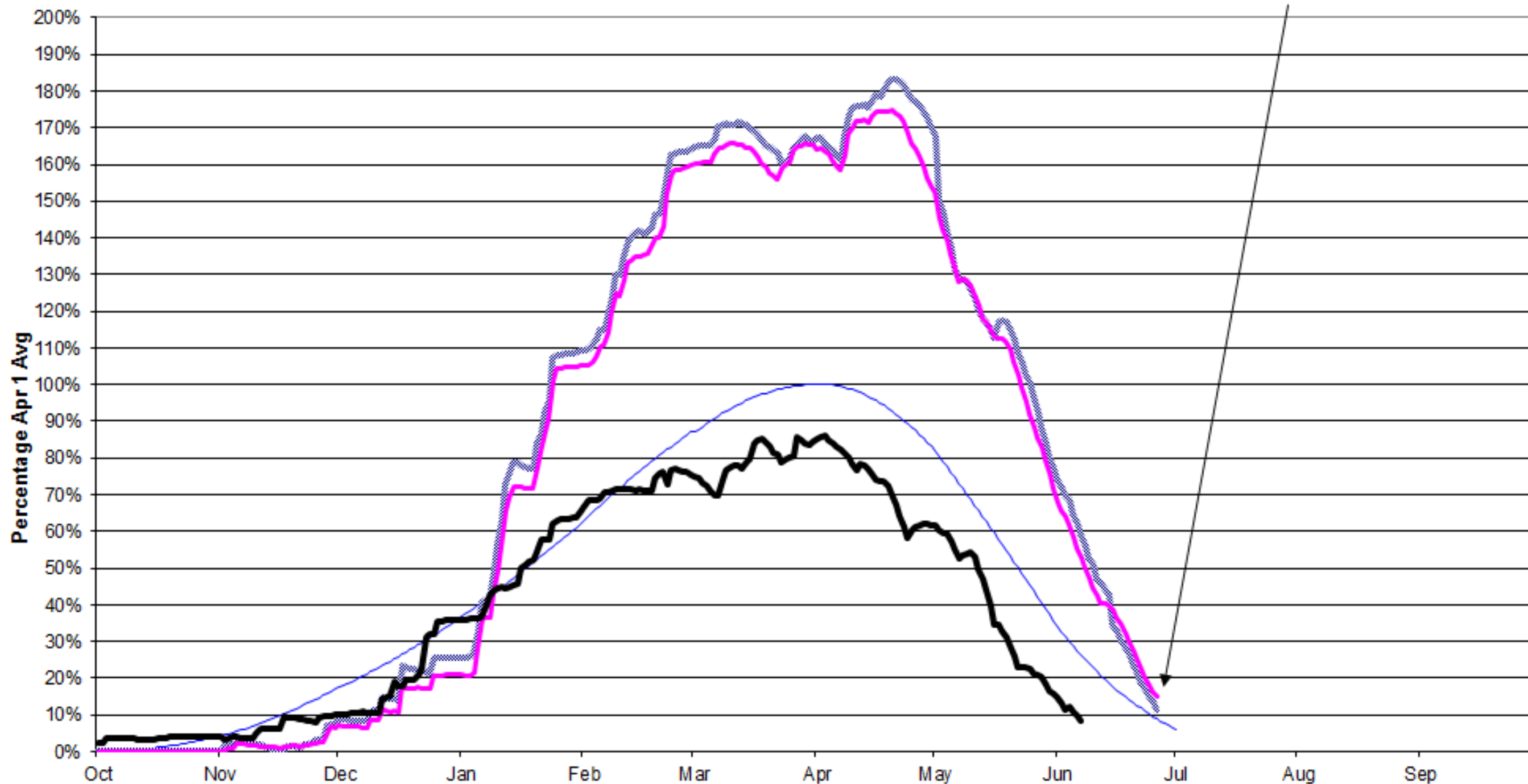
Tuolumne River Watershed Accumulated Precipitation

63.67 Inches or 178.4% for this date



Snow Sensors Used in Tuolumne River Forecast

11.5% Average of Apr. 1 or
129.4% Average for Date



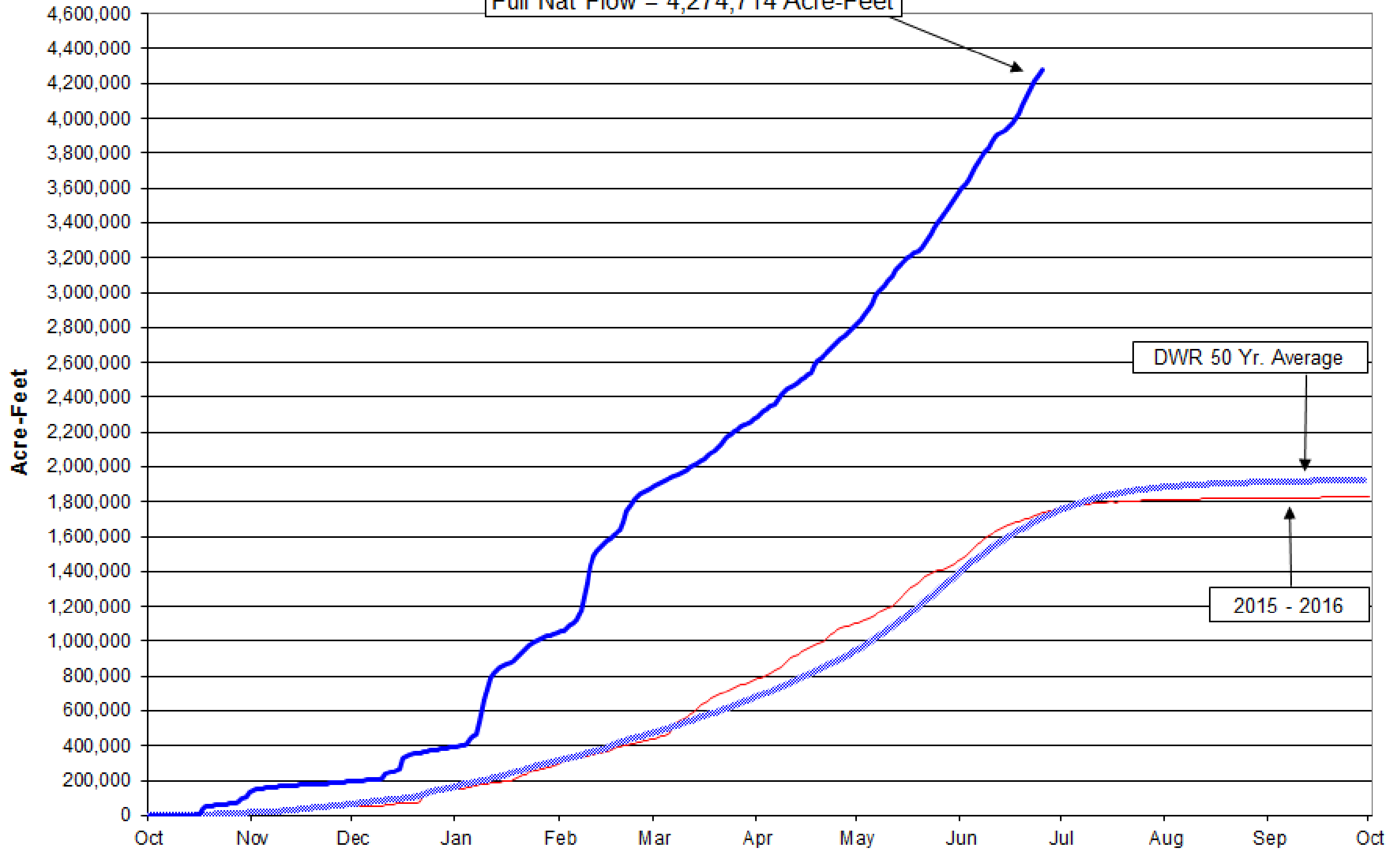
— D.W.R. Average ····· Tuolumne 2016-2017 — All Courses — 2015-2016

WY2017 Computed Natural Flow

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT
DAY	CFS	CFS	CFS	CFS	CFS	CFS	CFS	CFS	CFS	CFS	CFS	CFS
1	272	5,414	867	1,647	2,668	5,513	6,220	9,928	13,092			
2	(212)	2,978	38	1,317	3,383	4,697	6,483	11,343	12,903			
3	(187)	1,715	954	1,946	6,853	4,734	7,650	13,639	14,953			
4	213	1,949	662	5,473	7,750	4,497	7,321	15,656	17,570			
5	468	1,231	725	14,538	5,327	6,001	6,882	14,016	17,246			
6	150	1,082	521	7,479	7,933	5,367	7,342	21,797	15,572			
7	25	1,149	687	4,892	29,308	4,053	13,529	12,996	13,572			
8	(118)	1,066	877	35,352	42,774	4,547	14,049	9,970	13,580			
9	317	921	2,129	64,576	40,573	4,963	8,322	11,899	11,800			
10	(186)	1,312	3,728	31,652	48,732	5,130	7,181	12,419	15,623			
11	(26)	366	11,356	28,725	24,626	4,629	5,859	12,848	13,669			
12	378	1,207	4,143	15,647	14,574	6,251	5,872	16,188	10,064			
13	(588)	352	2,574	10,021	11,900	5,273	8,040	12,393	6,166			
14	916	698	1,919	6,977	9,869	5,838	7,706	8,766	5,980			
15	276	581	4,211	6,447	8,393	5,842	6,898	9,005	8,645			
16	1,879	537	32,121	5,510	7,828	7,293	5,865	7,190	10,986			
17	14,941	697	6,447	4,006	8,855	8,180	8,022	6,283	13,297			
18	6,171	906	3,356	4,183	9,851	7,692	19,184	6,829	16,187			
19	2,084	(126)	2,634	7,418	8,156	7,407	15,206	7,598	19,647			
20	1,617	508	2,350	9,289	22,394	7,095	9,636	9,243	20,149			
21	1,468	462	1,813	8,934	31,516	10,542	8,684	11,112	18,398			
22	625	795	1,966	8,526	17,478	15,415	9,026	12,727	17,593			
23	995	582	1,539	11,590	11,773	8,514	9,314	14,942	18,240			
24	1,594	857	2,661	6,533	12,238	6,997	10,198	16,989	16,075			
25	758	579	1,842	5,469	7,149	6,589	8,721	15,943	13,221			
26	1,431	599	1,099	4,561	4,680	6,797	7,422	15,492				
27	901	1,285	1,544	3,303	6,217	7,305	8,766	13,704				
28	3,111	1,174	1,514	4,163	5,367	4,585	9,578	13,834				
29	9,835	1,088	1,554	2,912		5,261	7,973	13,762				
30	4,827	545	1,102	3,646		6,387	8,083	14,040				
31	11,729		1,103	3,817		8,125		14,916				
Average C.F.S.	2,118	1,084	3,227	10,663	14,934	6,501	8,834	12,499	14,169			
Total Monthly A.F.	130,247	64,478	198,416	655,633	829,418	399,705	525,686	768,530	702,602			
DWR 50 YR Average A.F.	22,000	50,000	88,000	149,000	146,000	214,000	268,000	444,000	345,000	136,000	32,000	16,000
Total October-September Computed Natural Flow=				4,274,714	A.F.					APR-JLY =	1,996,817	A.F.
			Remaining =	(2,364,714)						Remaining =	(803,817)	

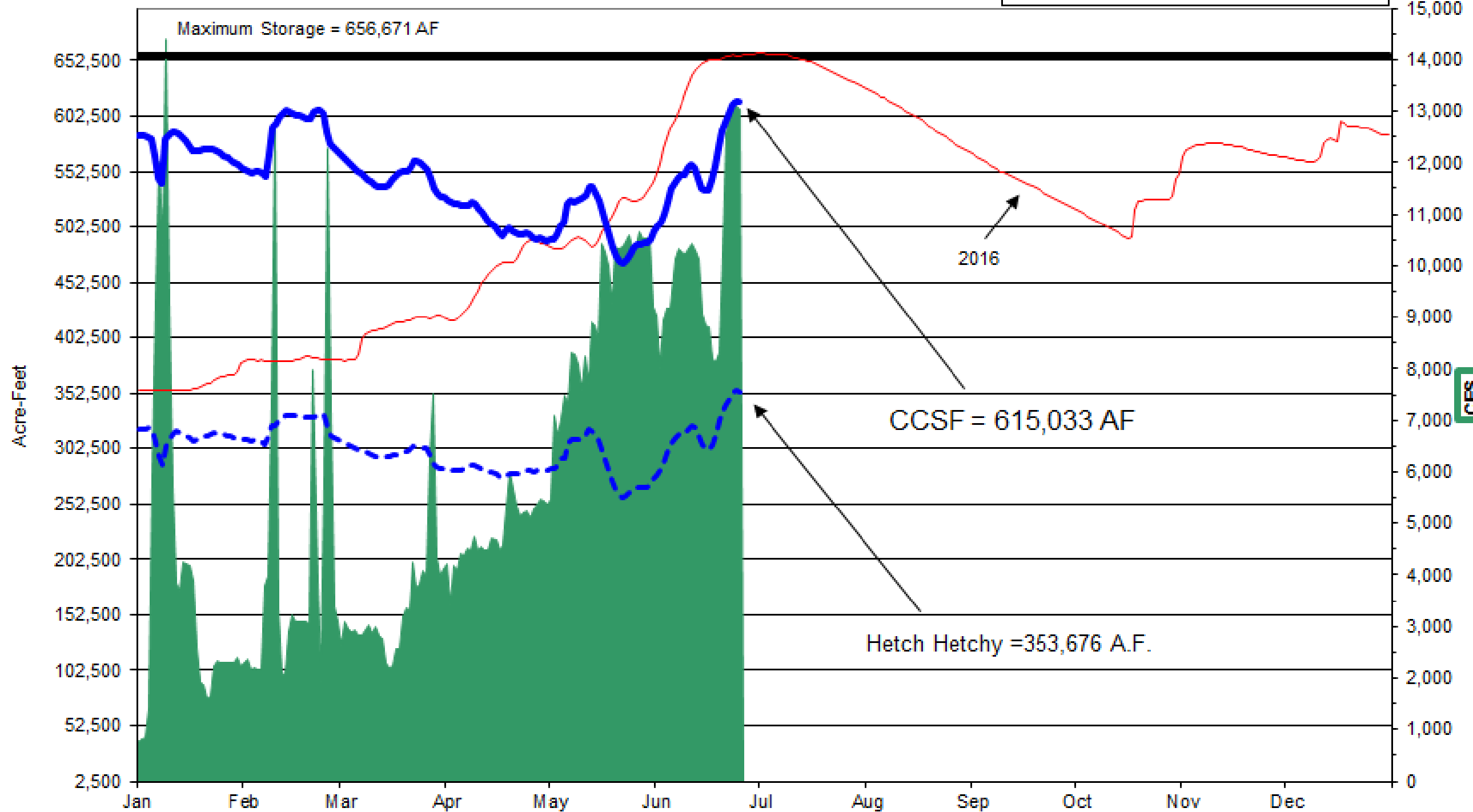
Full Natural Flow

Full Nat Flow = 4,274,714 Acre-Feet



CCSF Total Storage

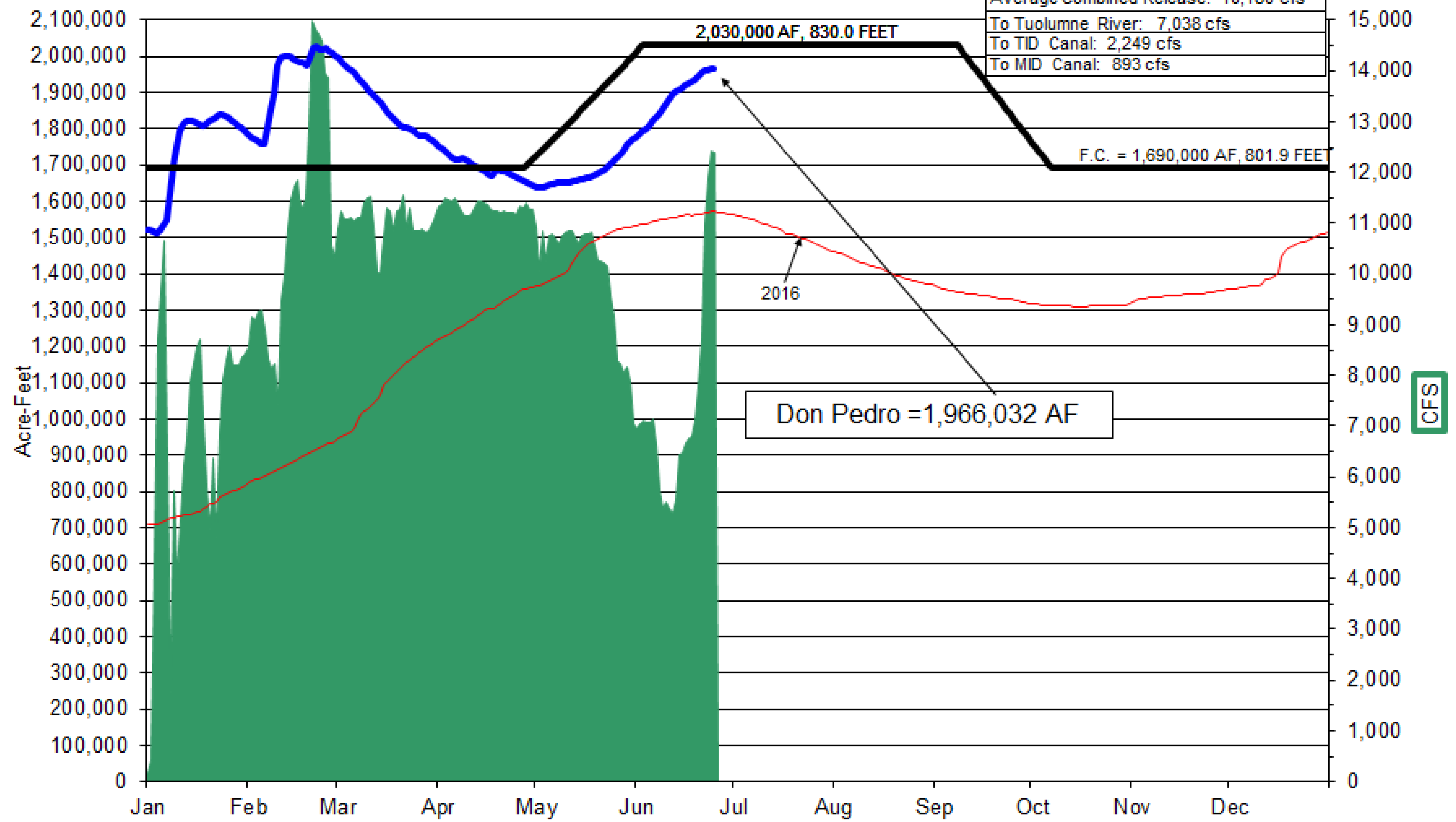
7-Day Average Release: 11,880 cfs
 7-Day Average Diversion: 377 cfs



█ Releases (cfs)
 █ Max Storage
 — CCSF 2016
 — CCSF 2017
 - - - Hetch Hetchy

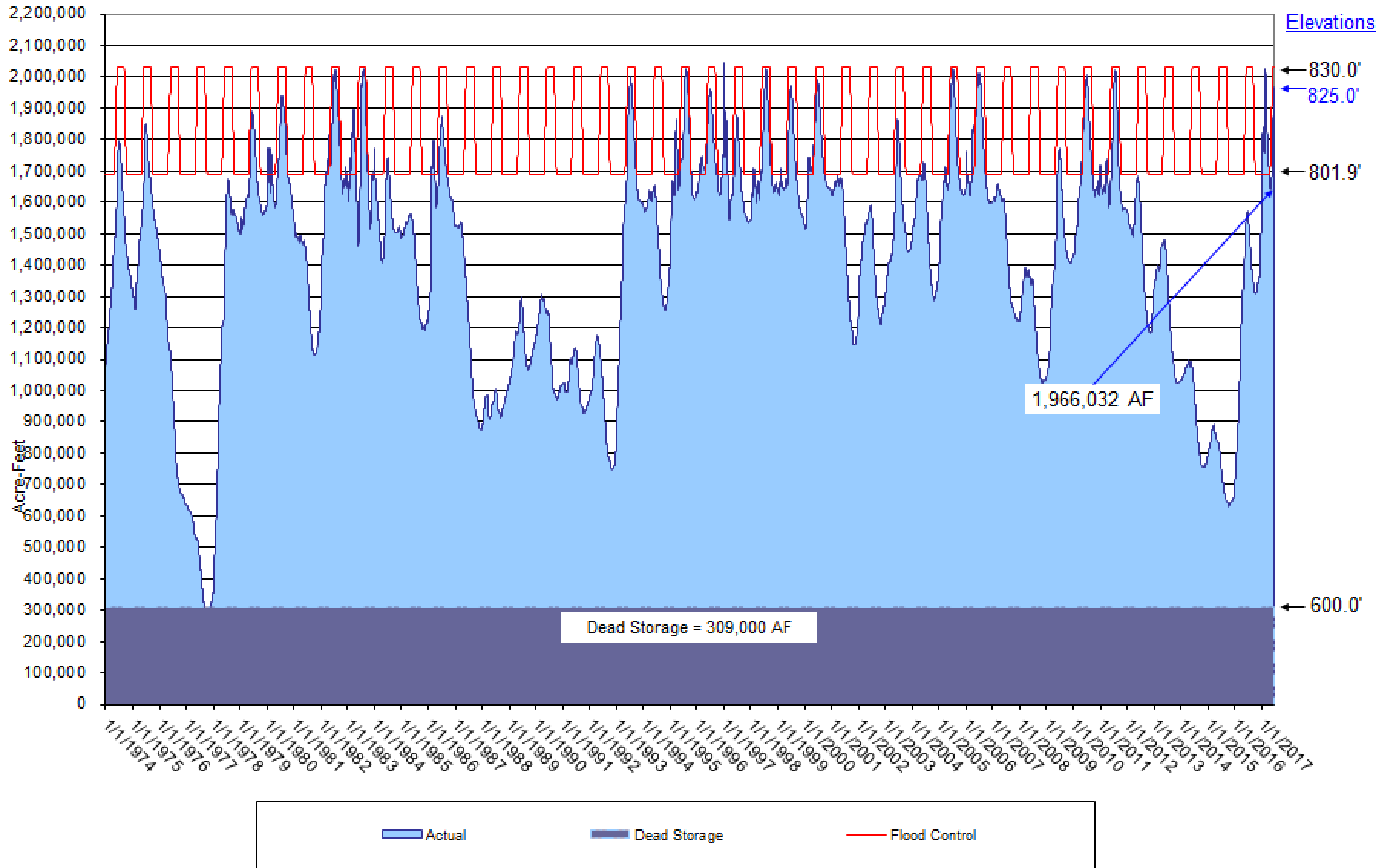
DON PEDRO STORAGE

Releases During Past 7 Days	
Average Combined Release:	10,180 cfs
To Tuolumne River:	7,038 cfs
To TID Canal:	2,249 cfs
To MID Canal:	893 cfs



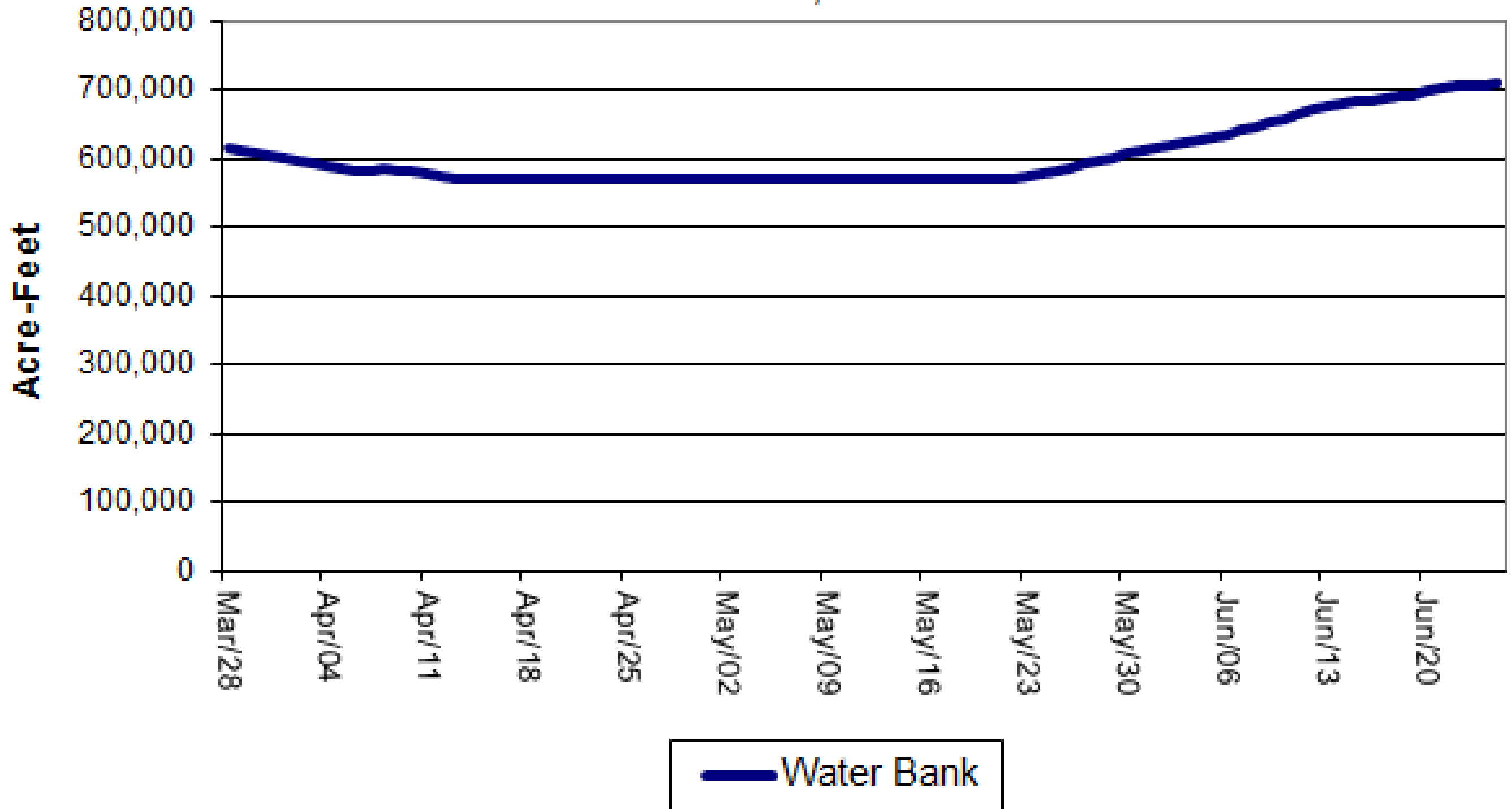
■ Average Combined Release (cfs)
 — 2016
 — 2017
 — FLOOD CONTROL
 Dry
 Avg.

HISTORIC DON PEDRO STORAGE



Don Pedro Water Bank

Water Bank = 708,016 Acre-Feet



Turlock Lake Storage

