

# Water Report

July 25, 2017

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



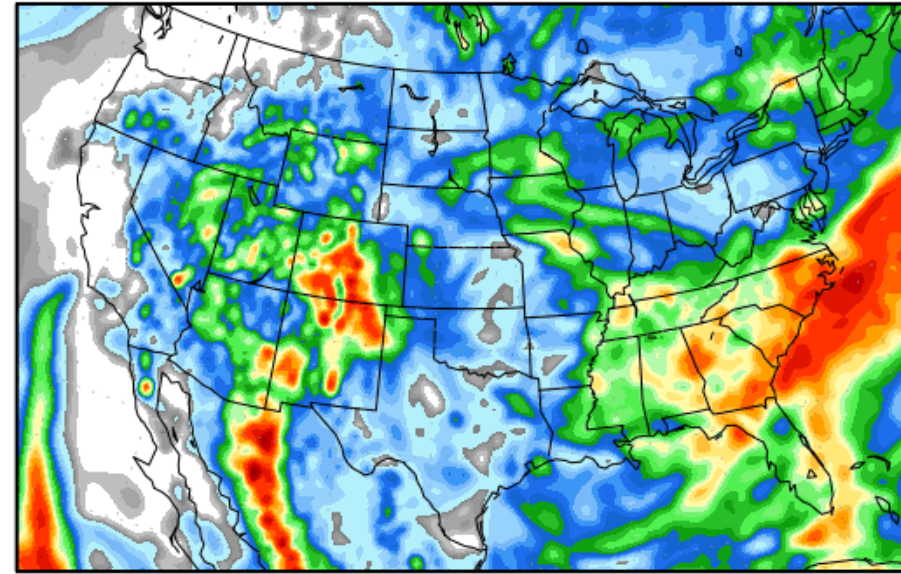
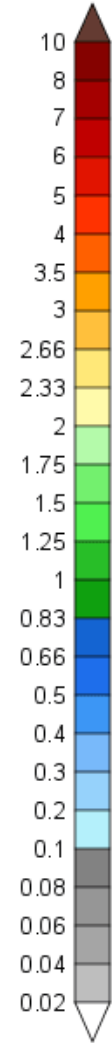
# Precipitation Forecasts

Precipitation (in)  
during the period:

Mon, 24 JUL 2017 at 12Z

-to-

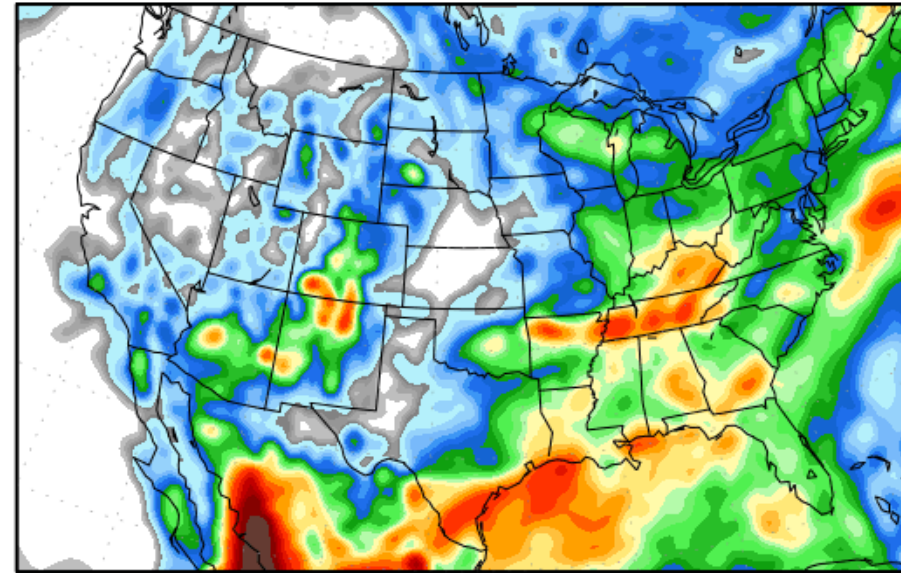
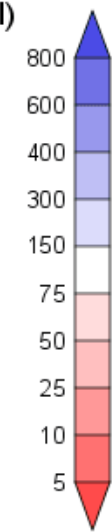
Tue, 01 AUG 2017 at 12Z



Tue, 01 AUG 2017 at 12Z

-to-

Wed, 09 AUG 2017 at 12Z

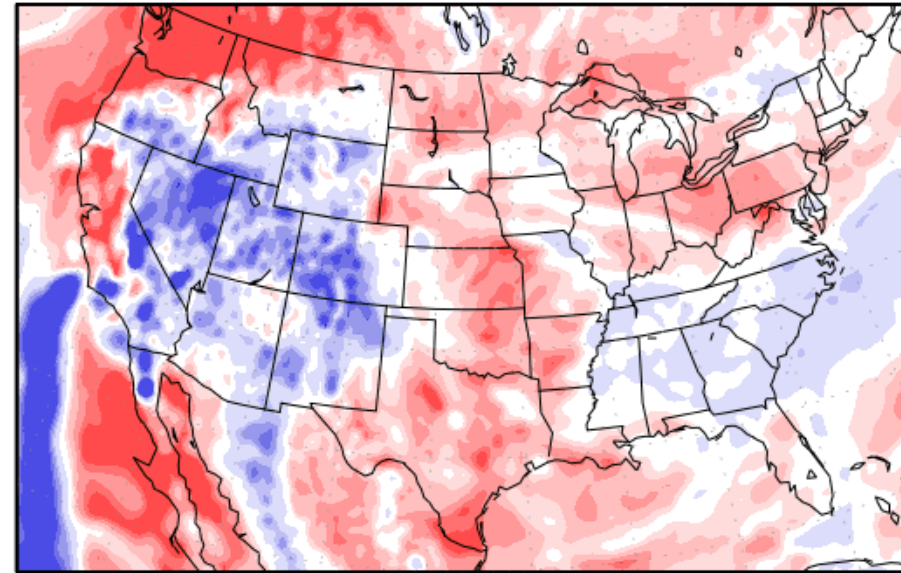


Precipitation (% of normal)  
during the first period:

Mon, 24 JUL 2017 at 12Z

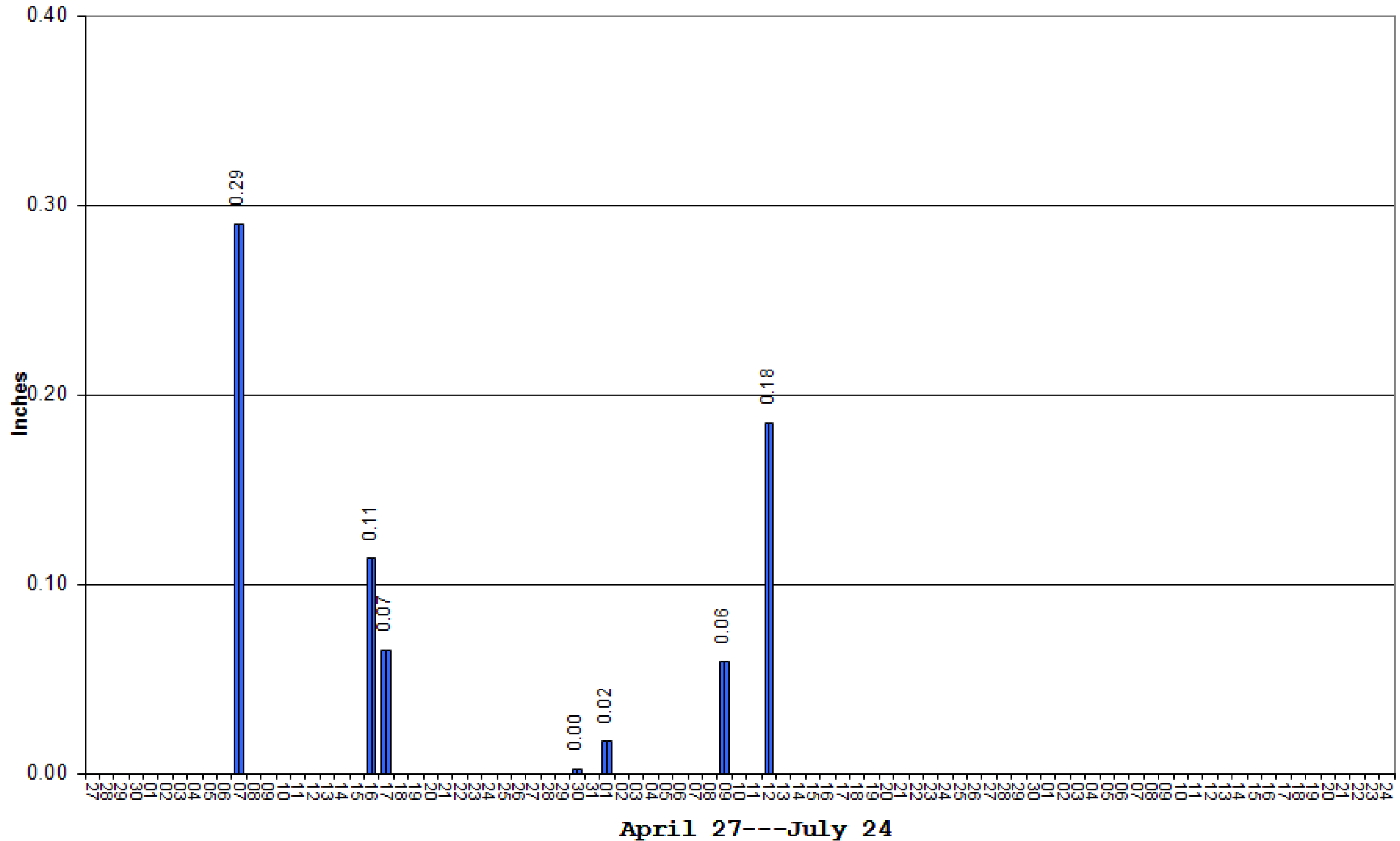
-to-

Tue, 01 AUG 2017 at 12Z

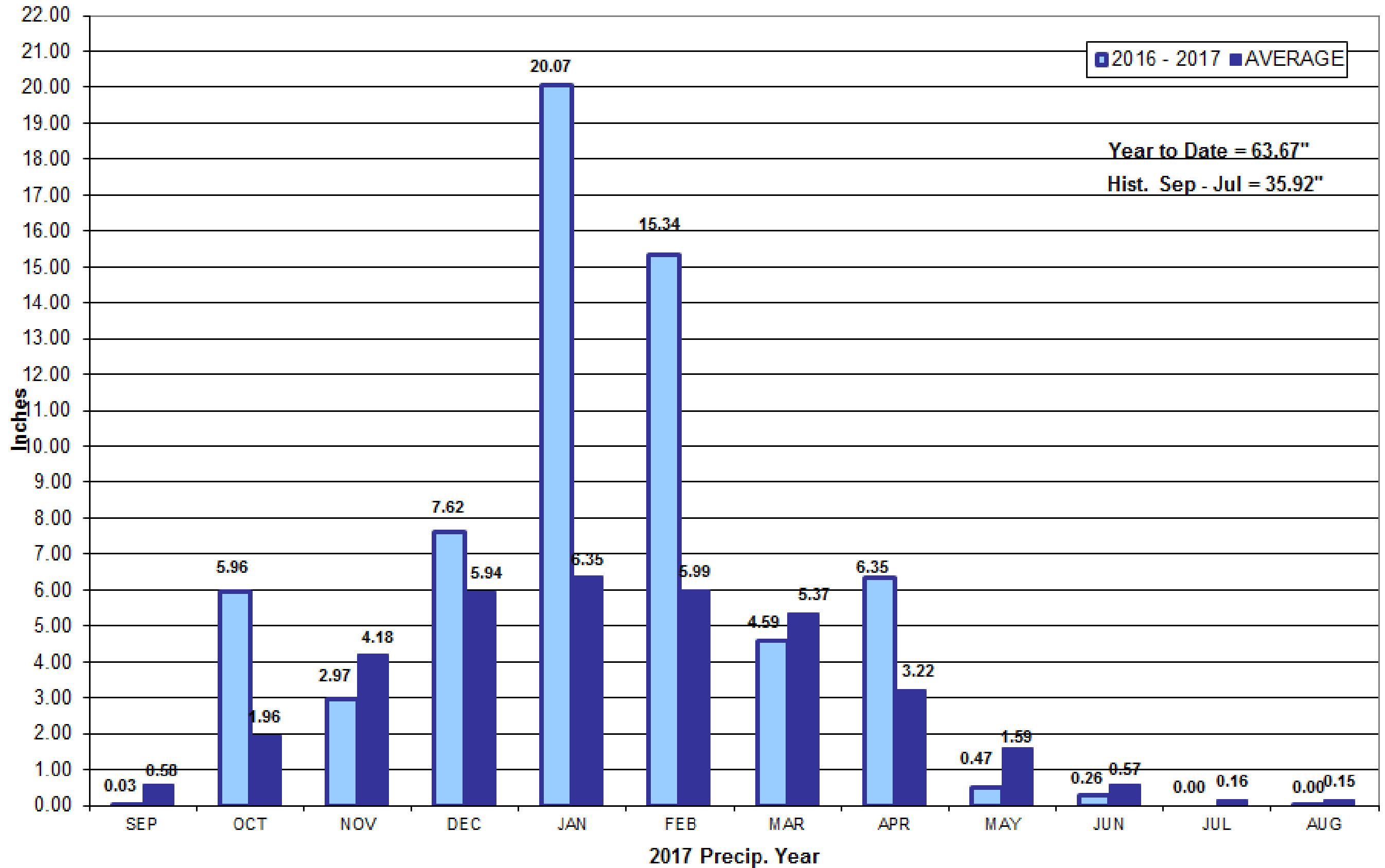


Precipitation forecasts from the National Centers for Environmental Prediction.  
Normal rainfall derived from Xie-Arkin (CMAP) Monthly Climatology for 1979-2003.  
Forecast Initialization Time: 12Z24JUL2017

# Watershed Daily Precipitation

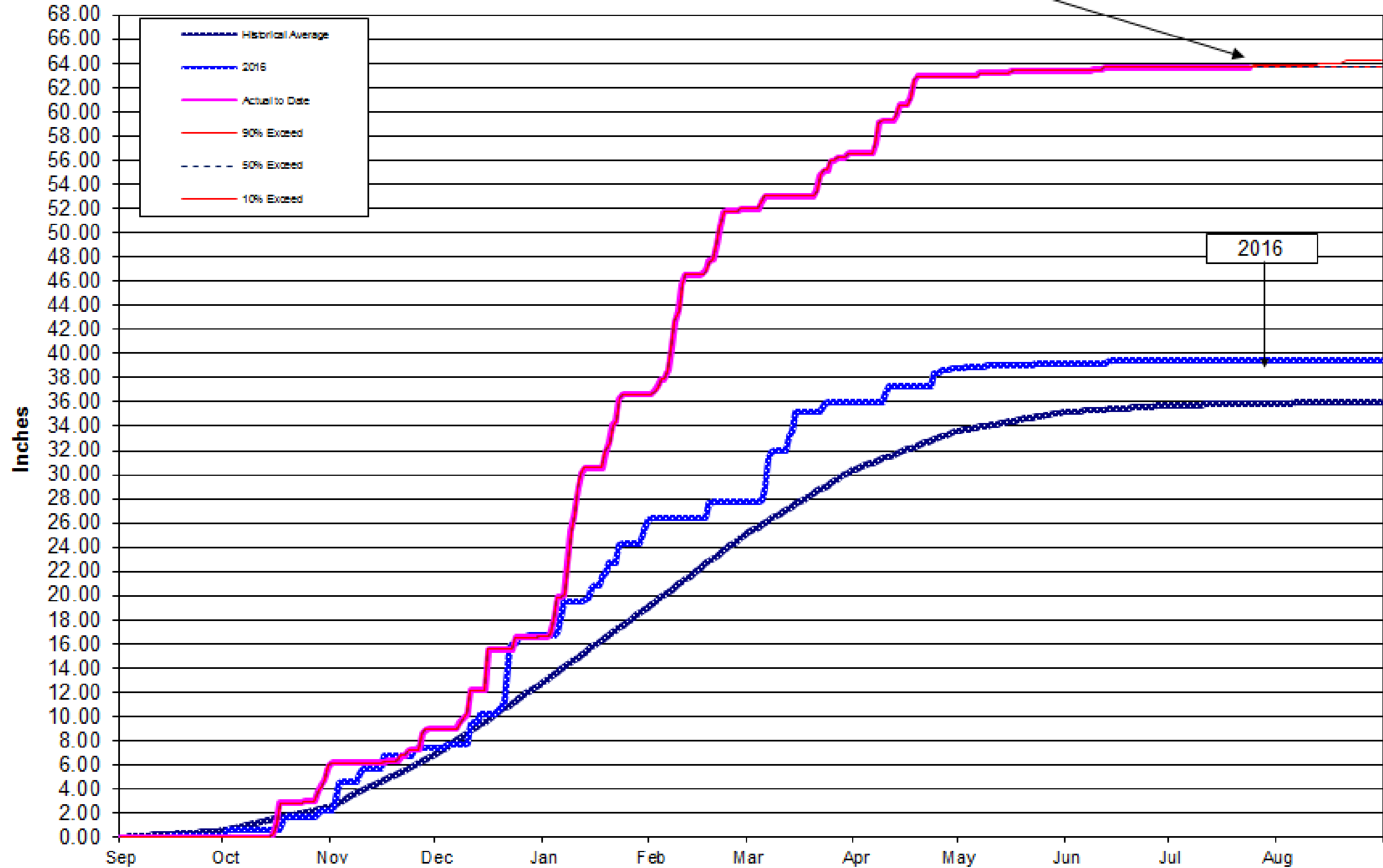


# Tuolumne River Watershed Monthly Accumulation of Precipitation



# Tuolumne River Watershed Accumulated Precipitation

63.67 Inches or 177.5% for this date

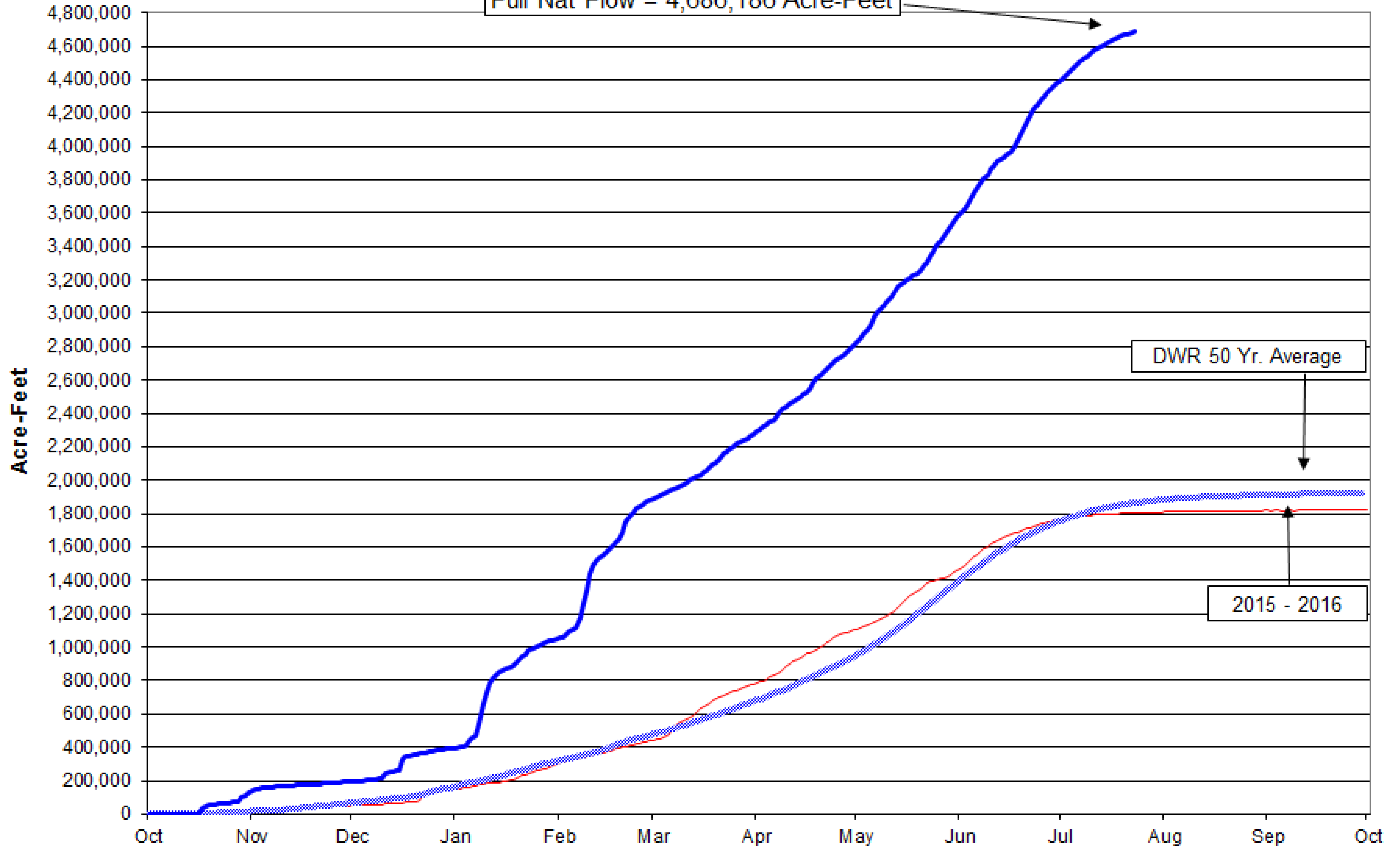


WY2017 Computed Natural Flow

	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	9,379		
2	(212)	2,978	38	1,317	3,383	4,697	6,483	11,343	12,903	9,745		
3	(187)	1,715	954	1,946	6,853	4,734	7,650	13,639	14,953	10,023		
4	213	1,949	662	5,473	7,750	4,497	7,321	15,656	17,570	9,478		
5	468	1,231	725	14,538	5,327	6,001	6,882	14,016	17,246	10,202		
6	150	1,082	521	7,479	7,933	5,367	7,342	21,797	15,572	8,443		
7	25	1,149	687	4,892	29,308	4,053	13,529	12,996	13,572	7,748		
8	(118)	1,066	877	35,352	42,774	4,547	14,049	9,970	13,580	8,850		
9	317	921	2,129	64,576	40,573	4,963	8,322	11,899	11,800	8,503		
10	(186)	1,312	3,728	31,652	48,732	5,130	7,181	12,419	15,623	8,148		
11	(26)	366	11,356	28,725	24,626	4,629	5,859	12,848	13,669	7,602		
12	378	1,207	4,143	15,647	14,574	6,251	5,872	16,188	10,064	6,242		
13	(588)	352	2,574	10,021	11,900	5,273	8,040	12,393	6,166	5,801		
14	916	698	1,919	6,977	9,869	5,838	7,706	8,766	5,980	4,788		
15	276	581	4,211	6,447	8,393	5,842	6,898	9,005	8,645	6,028		
16	1,879	537	32,121	5,510	7,828	7,293	5,865	7,190	10,986	5,464		
17	14,941	697	6,447	4,006	8,855	8,180	8,022	6,283	13,297	4,890		
18	6,171	906	3,356	4,183	9,851	7,692	19,184	6,829	16,187	4,928		
19	2,084	(126)	2,634	7,418	8,156	7,407	15,206	7,598	19,647	3,959		
20	1,617	508	2,350	9,289	22,394	7,095	9,636	9,243	20,149	3,978		
21	1,468	462	1,813	8,934	31,516	10,542	8,684	11,112	18,398	3,073		
22	625	795	1,966	8,526	17,478	15,415	9,026	12,727	17,593	3,180		
23	995	582	1,539	11,590	11,773	8,514	9,314	14,942	18,240	3,978		
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	12,145			
27	901	1,285	1,544	3,303	6,217	7,305	8,766	13,704	13,352			
28	3,111	1,174	1,514	4,163	5,367	4,585	9,578	13,834	11,099			
29	9,835	1,088	1,554	2,912		5,261	7,973	13,762	8,437			
30	4,827	545	1,102	3,646		6,387	8,083	14,040	7,987			
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	13,575	6,714		
Total Monthly A.F.	130,247	64,478	198,416	655,633	829,418	399,705	525,686	768,530	807,766	306,308		
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
<b>Total October-September Computed Natural Flow=</b>				<b>4,686,186</b>	<b>A.F.</b>				<b>APR-JLY =</b>	<b>2,408,289</b>	<b>A.F.</b>	
			<b>Remaining =</b>	<b>(2,776,186)</b>					<b>Remaining =</b>	<b>(1,215,289)</b>		

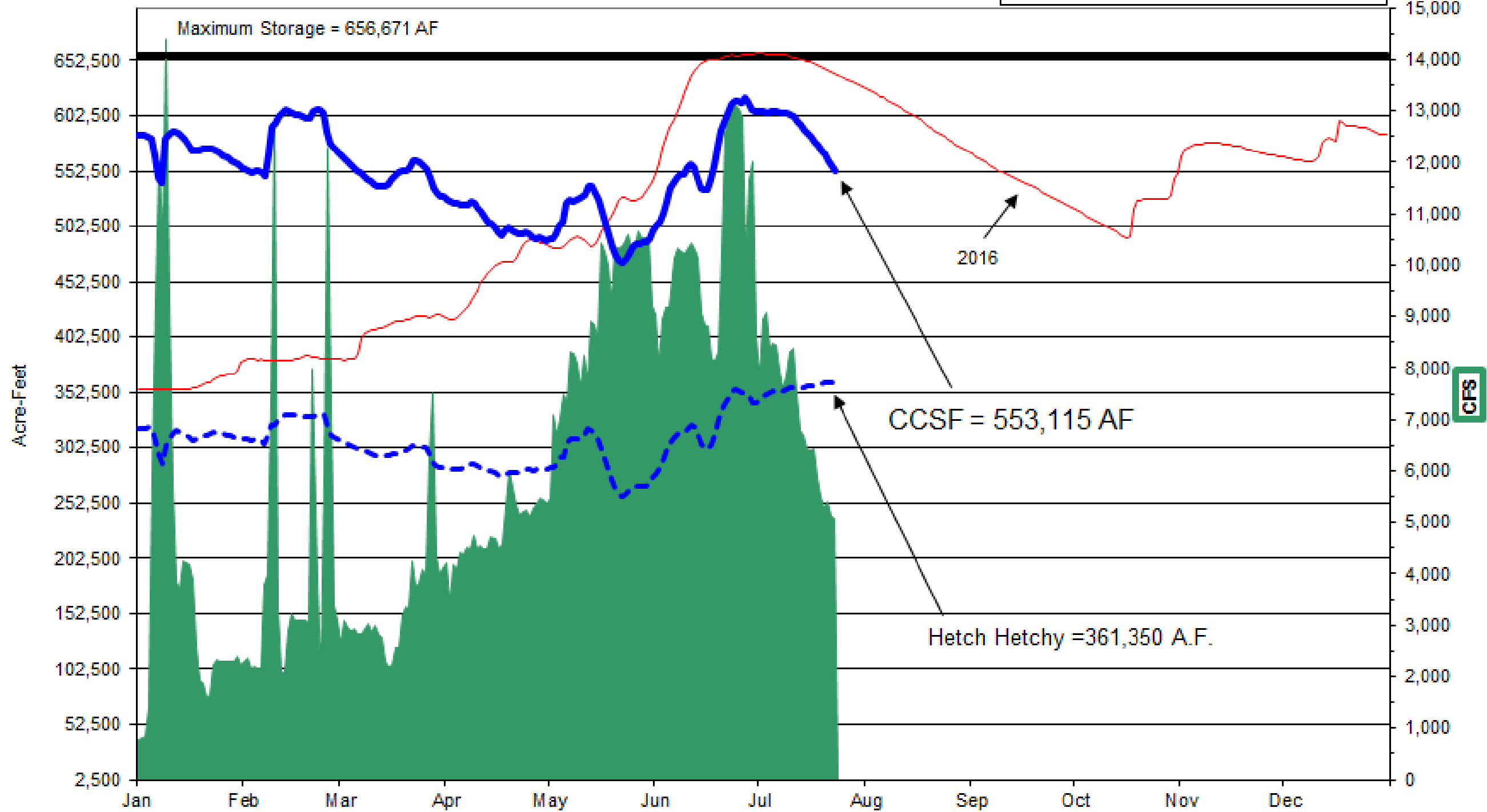
# Full Natural Flow

Full Nat Flow = 4,686,186 Acre-Feet



# CCSF Total Storage

7-Day Average Release: 5,527 cfs  
 7-Day Average Diversion: 423 cfs

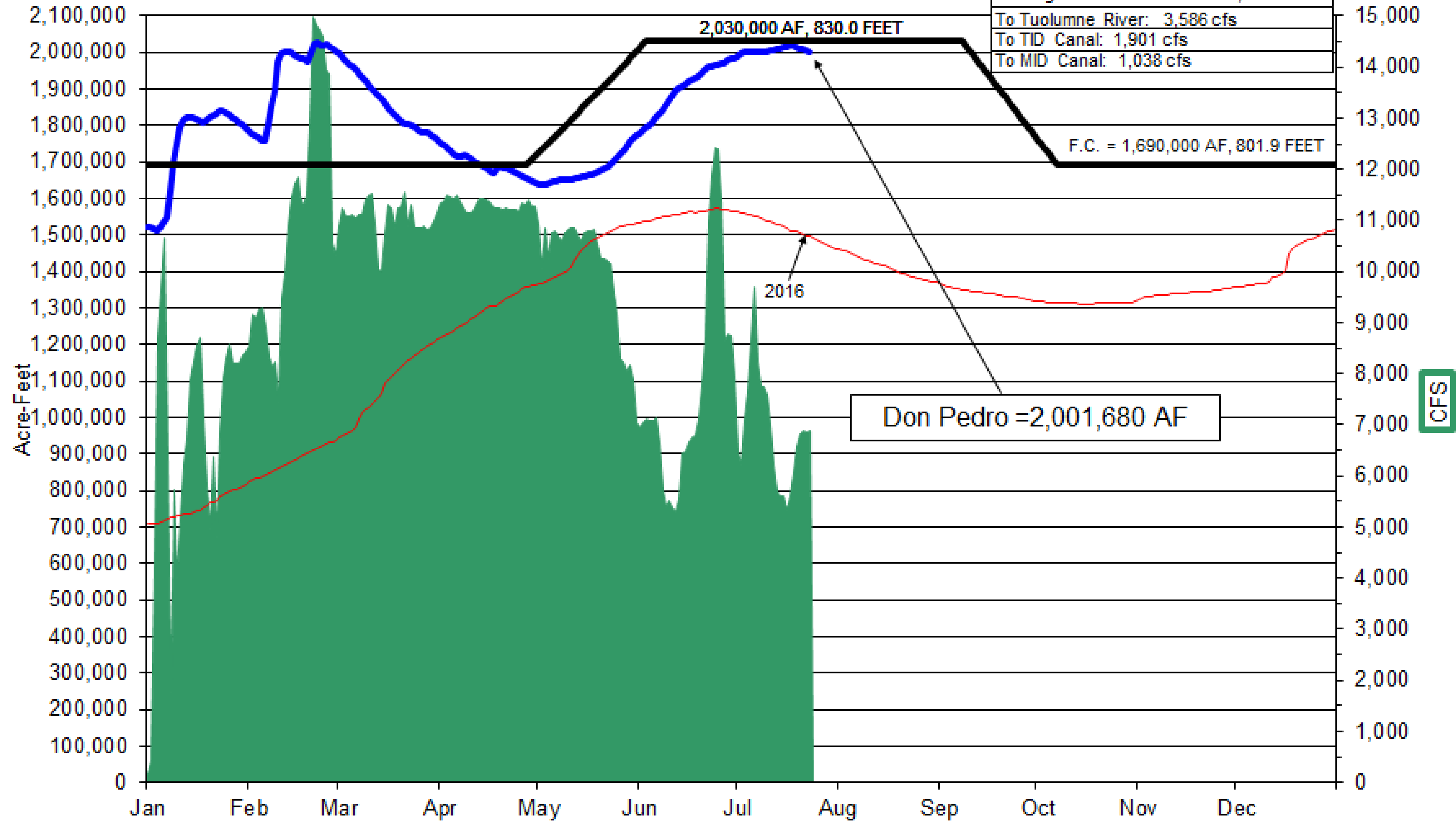


■ Releases (cfs)   
 — Max Storage   
 — CCSF 2016   
 — CCSF 2017   
 - - - Hetch Hetchy



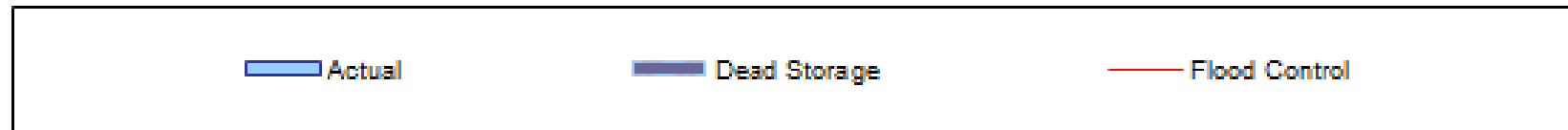
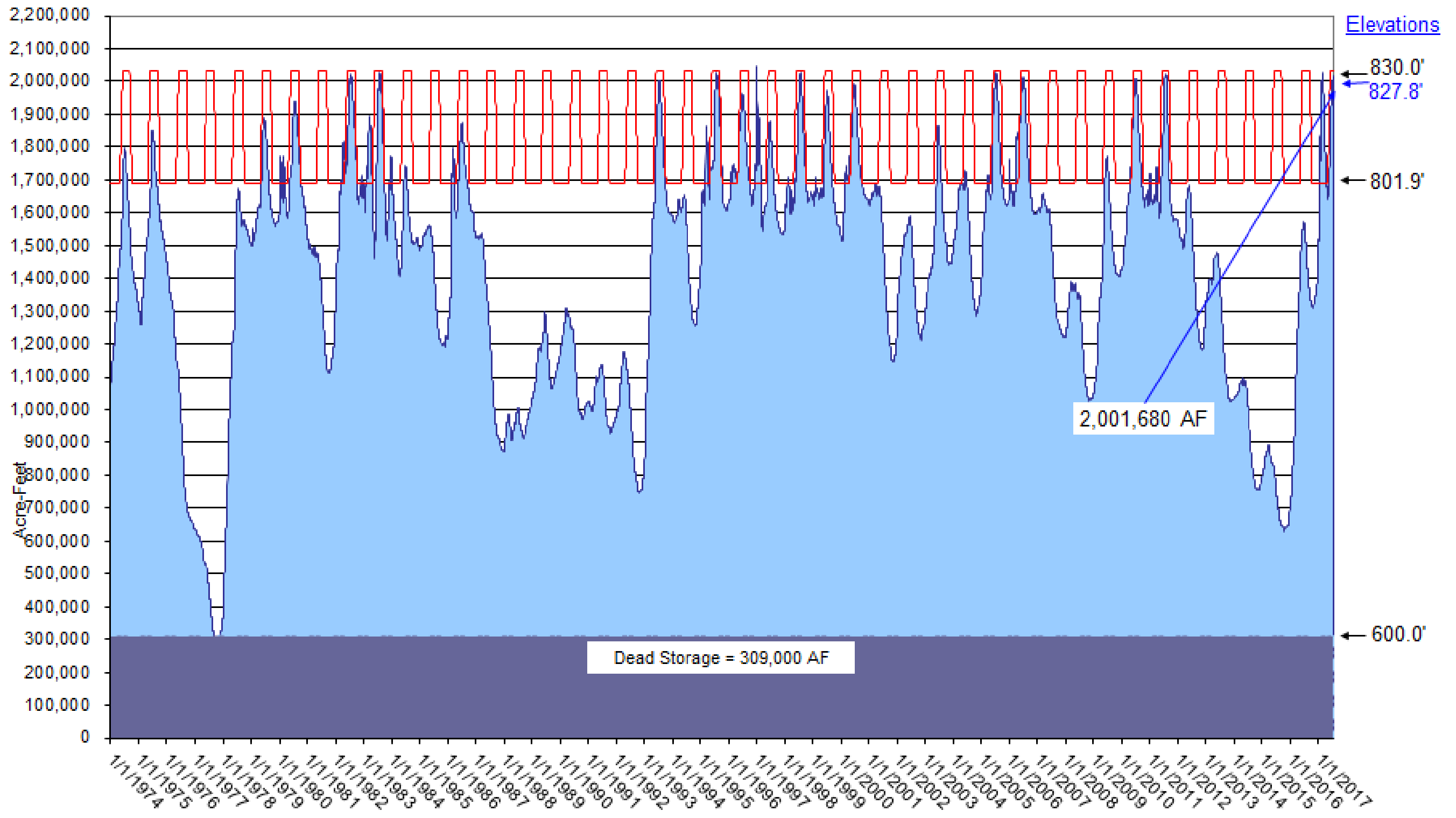
# DON PEDRO STORAGE

Releases During Past 7 Days	
Average Combined Release:	6,525 cfs
To Tuolumne River:	3,586 cfs
To TID Canal:	1,901 cfs
To MID Canal:	1,038 cfs



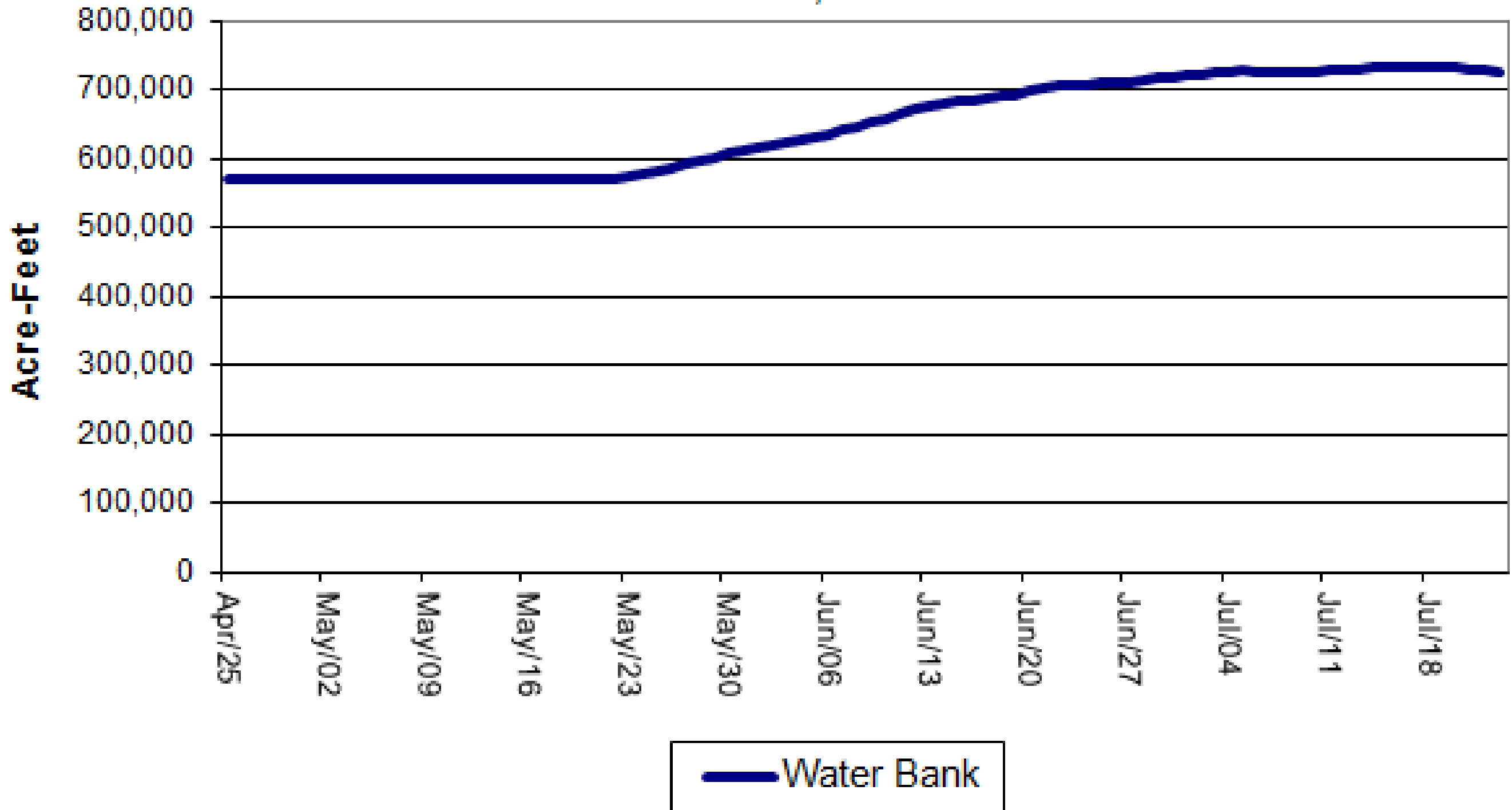
Average Combined Release (cfs)
  2016
  2017
  FLOOD CONTROL
 Dry
Avg.

# HISTORIC DON PEDRO STORAGE



# Don Pedro Water Bank

Water Bank = 725,840 Acre-Feet



# Turlock Lake Storage

