

# Water Report

January 10, 2017

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



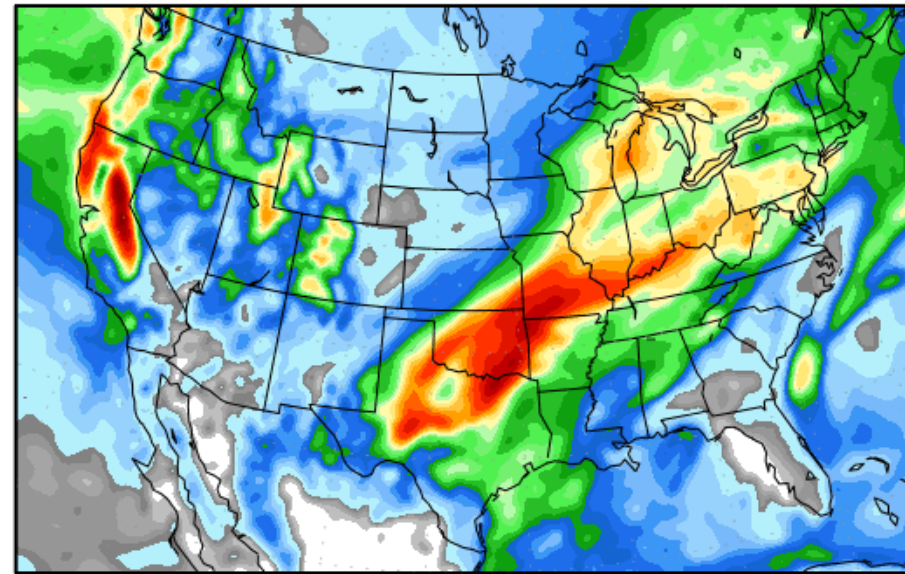
# Precipitation Forecasts

Precipitation (in)  
during the period:

Mon, 09 JAN 2017 at 12Z

-to-

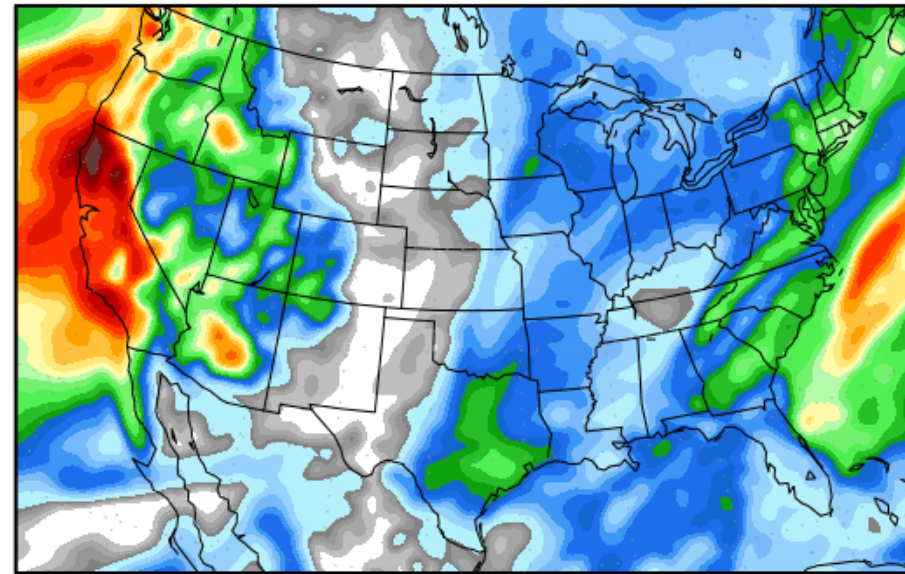
Tue, 17 JAN 2017 at 12Z



Tue, 17 JAN 2017 at 12Z

-to-

Wed, 25 JAN 2017 at 12Z

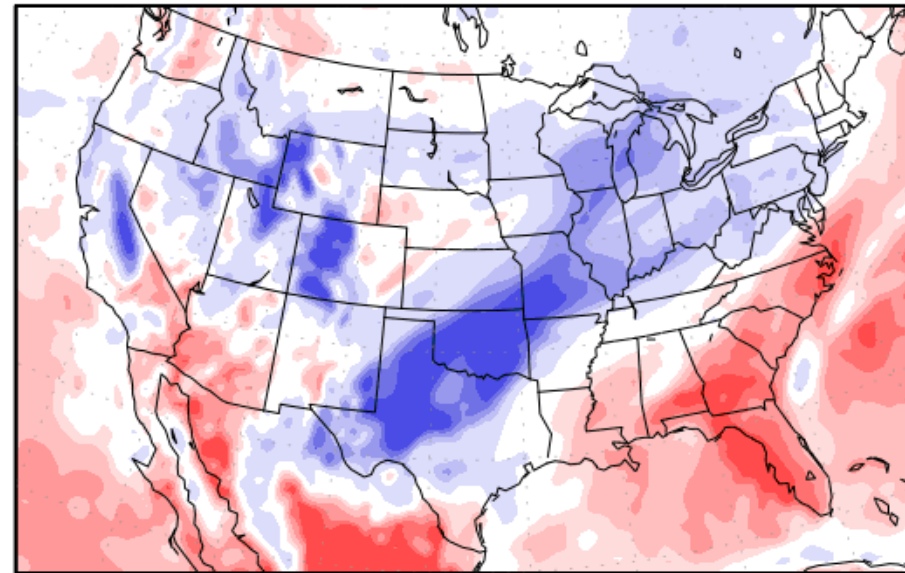
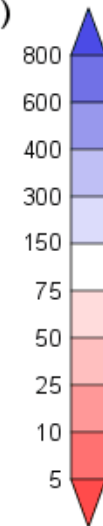


Precipitation (% of normal)  
during the first period:

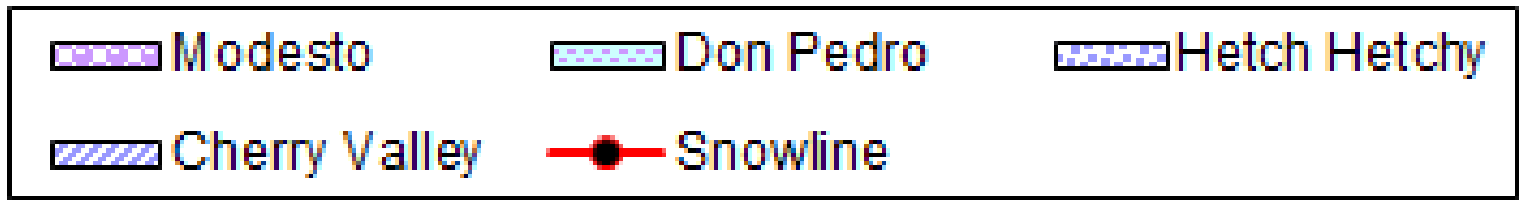
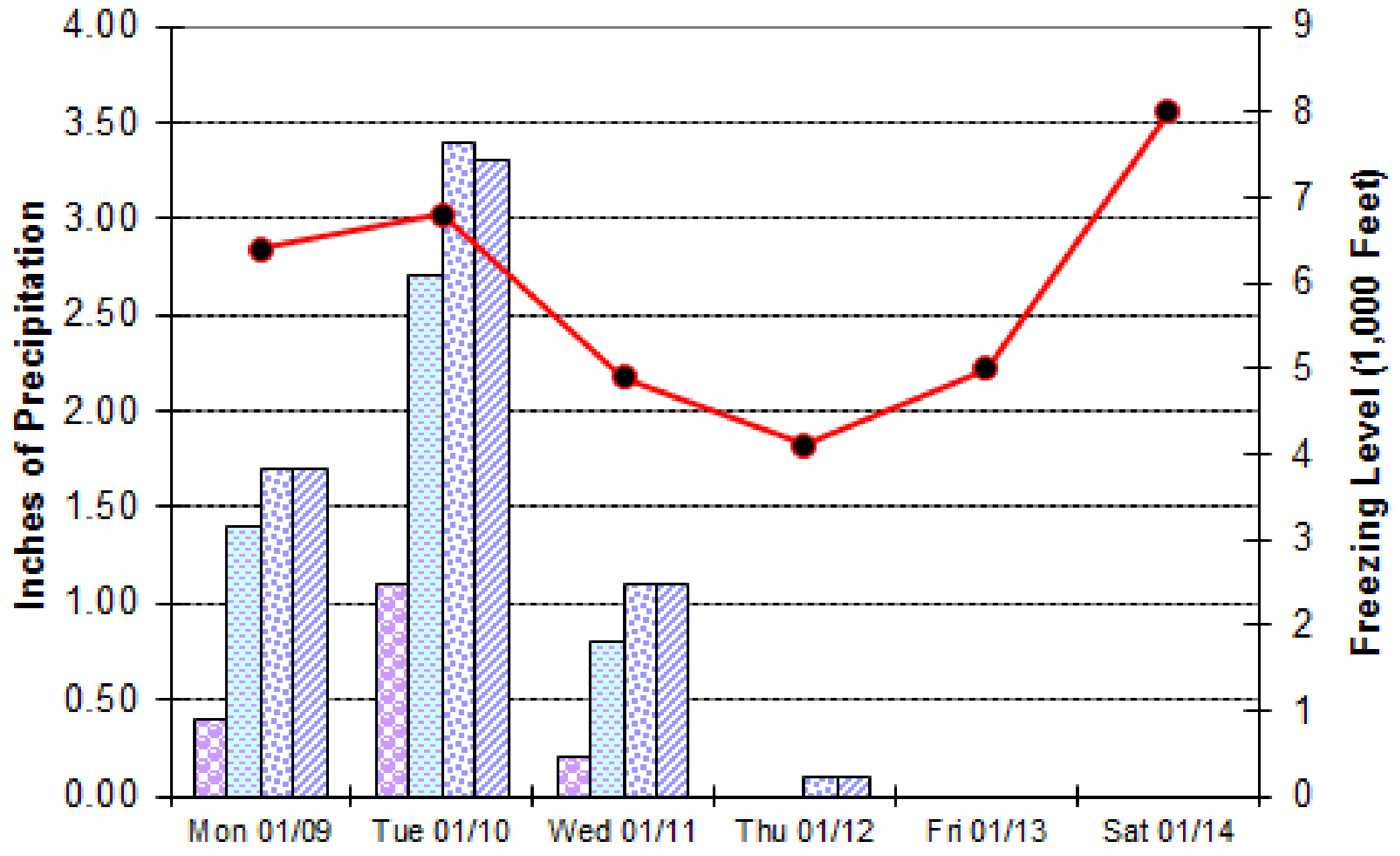
Mon, 09 JAN 2017 at 12Z

-to-

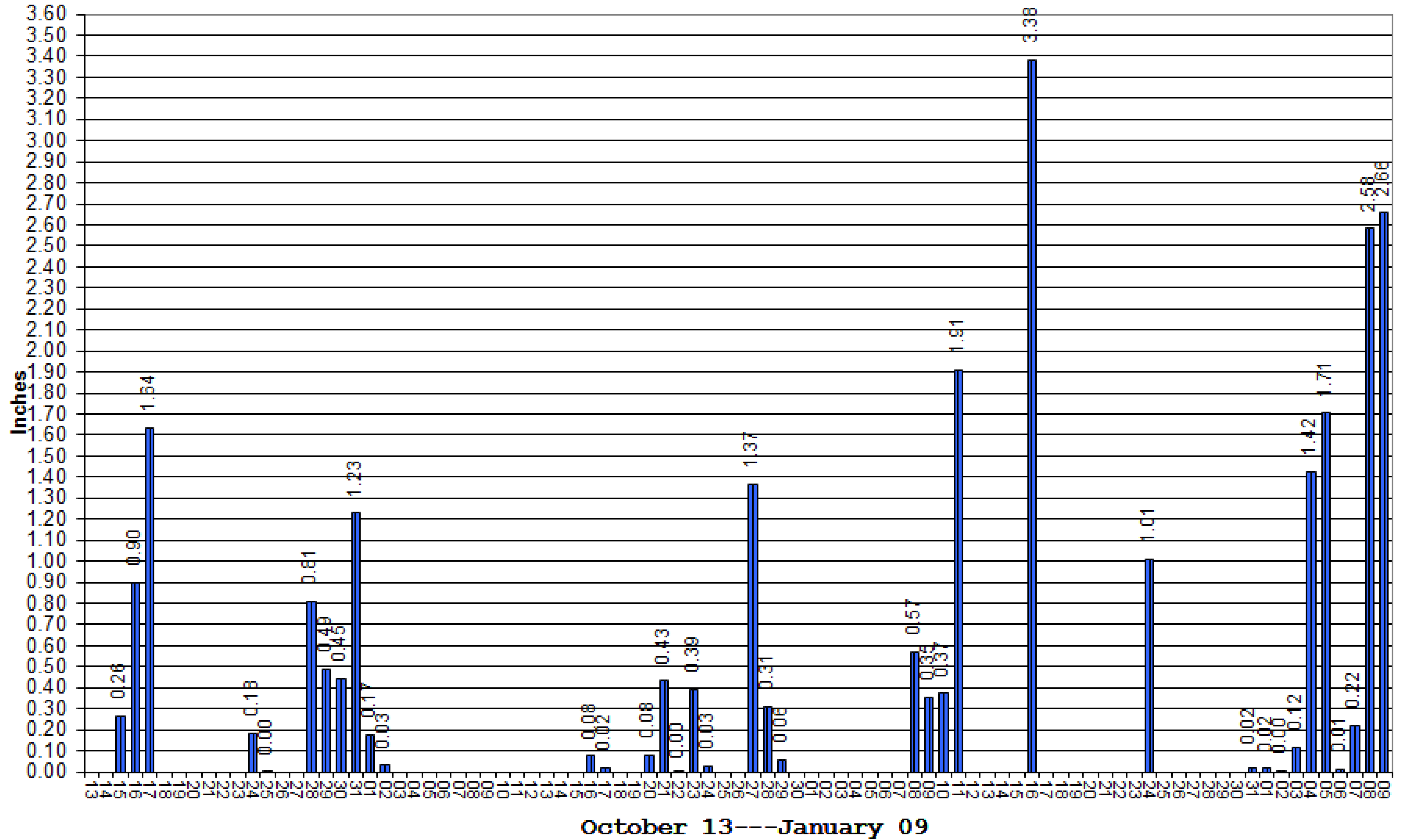
Tue, 17 JAN 2017 at 12Z



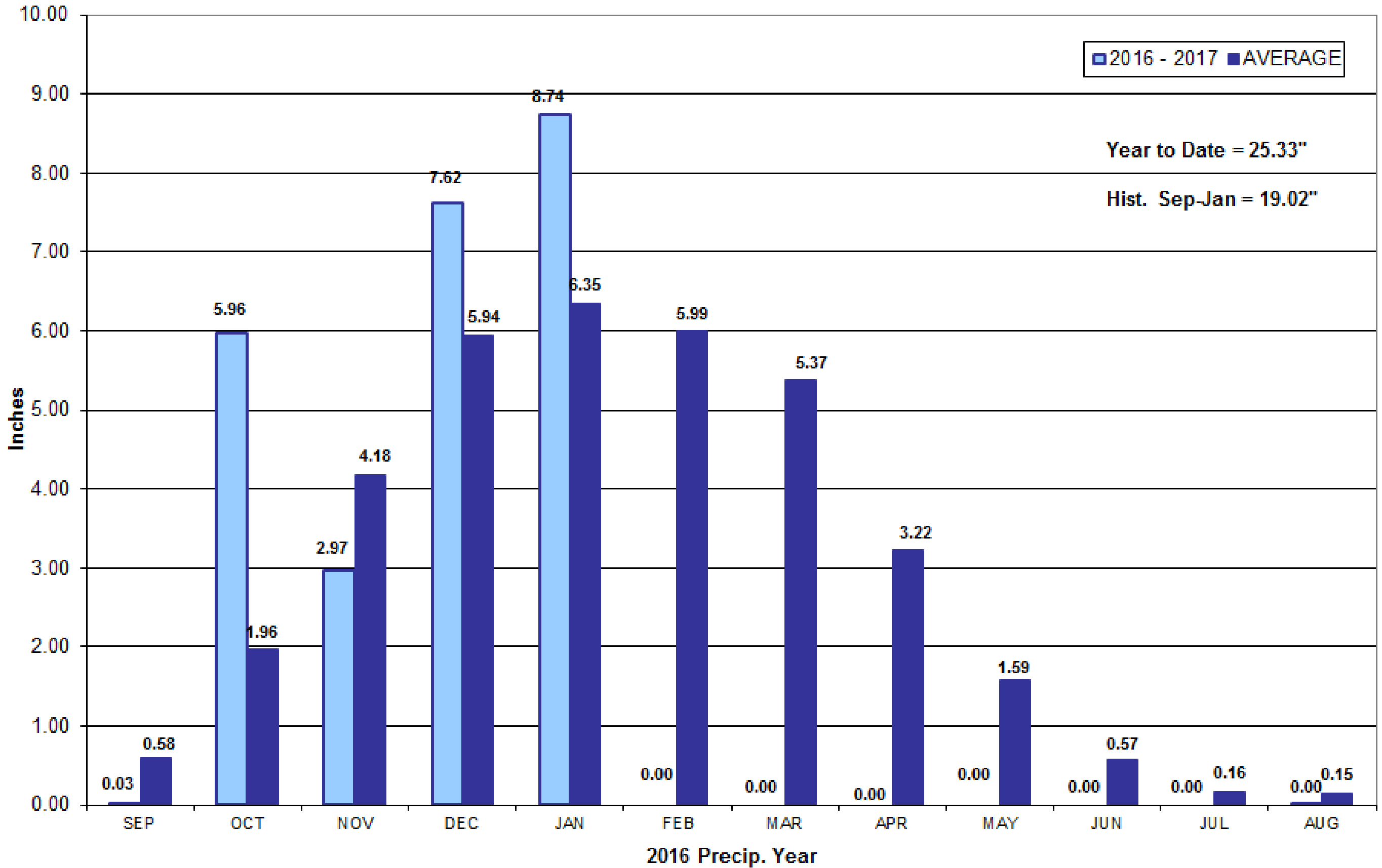
Precipitation forecasts from the National Centers for Environmental Prediction.  
Normal rainfall derived from Xie-Arkin (CMAP) Monthly Climatology for 1979-2003.  
Forecast Initialization Time: 12Z09JAN2017



# Watershed Daily Precipitation

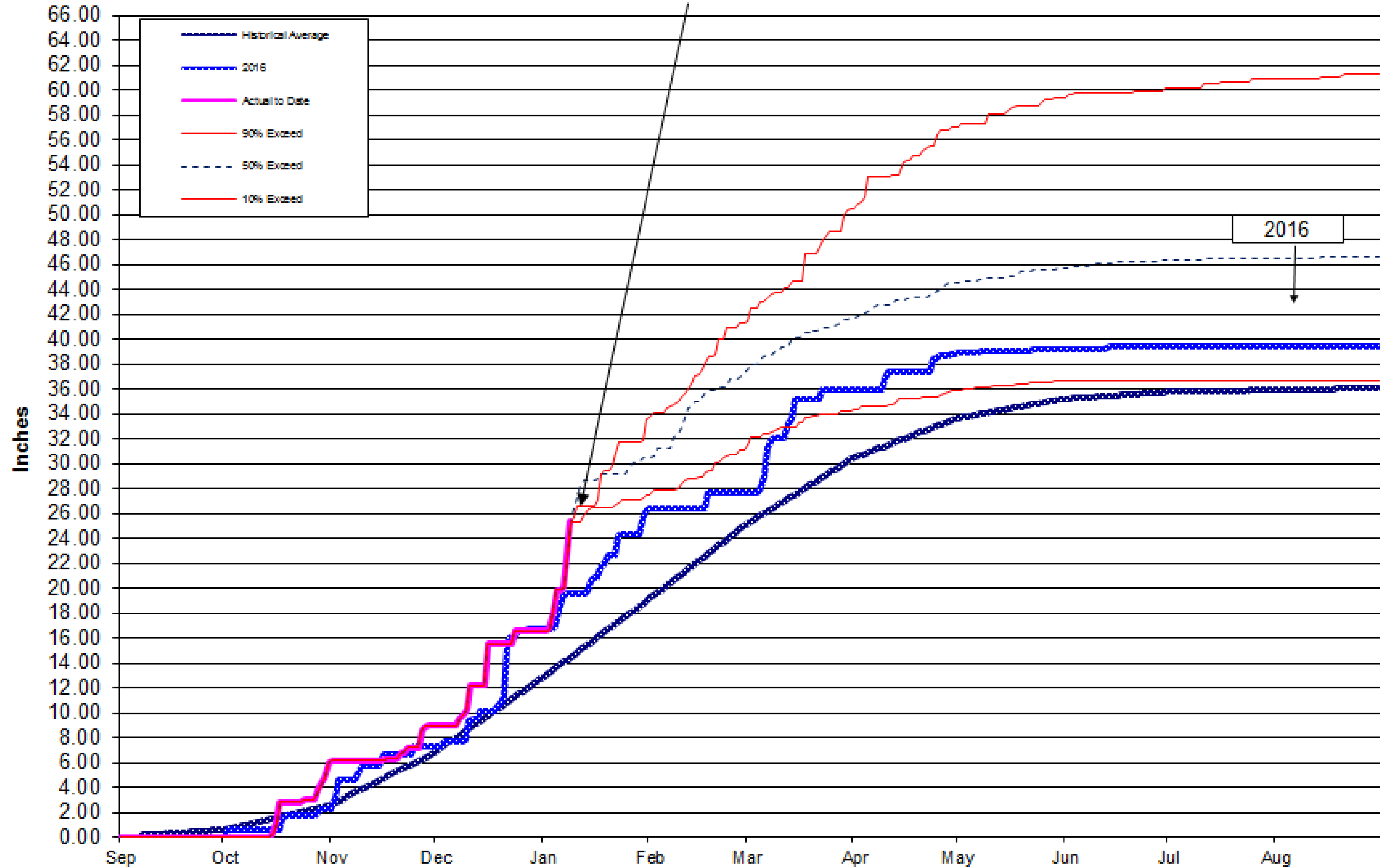


# Tuolumne River Watershed Monthly Accumulation of Precipitation



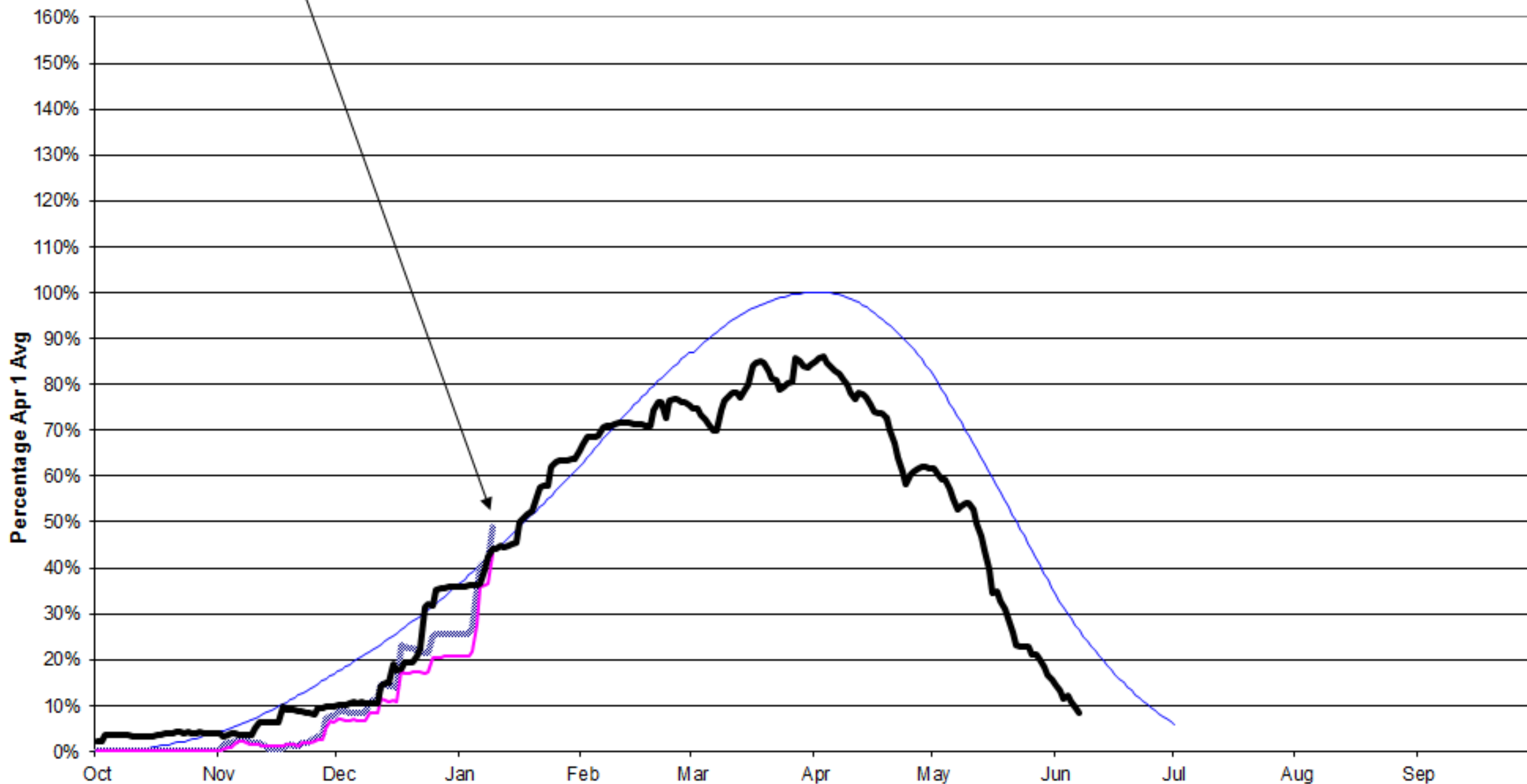
# Tuolumne River Watershed Accumulated Precipitation

25.33 Inches or 174.6% for this date



# Snow Sensors Used in Tuolumne River Forecast

49.0% Average of Apr. 1 or  
113.4% Average for Date



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

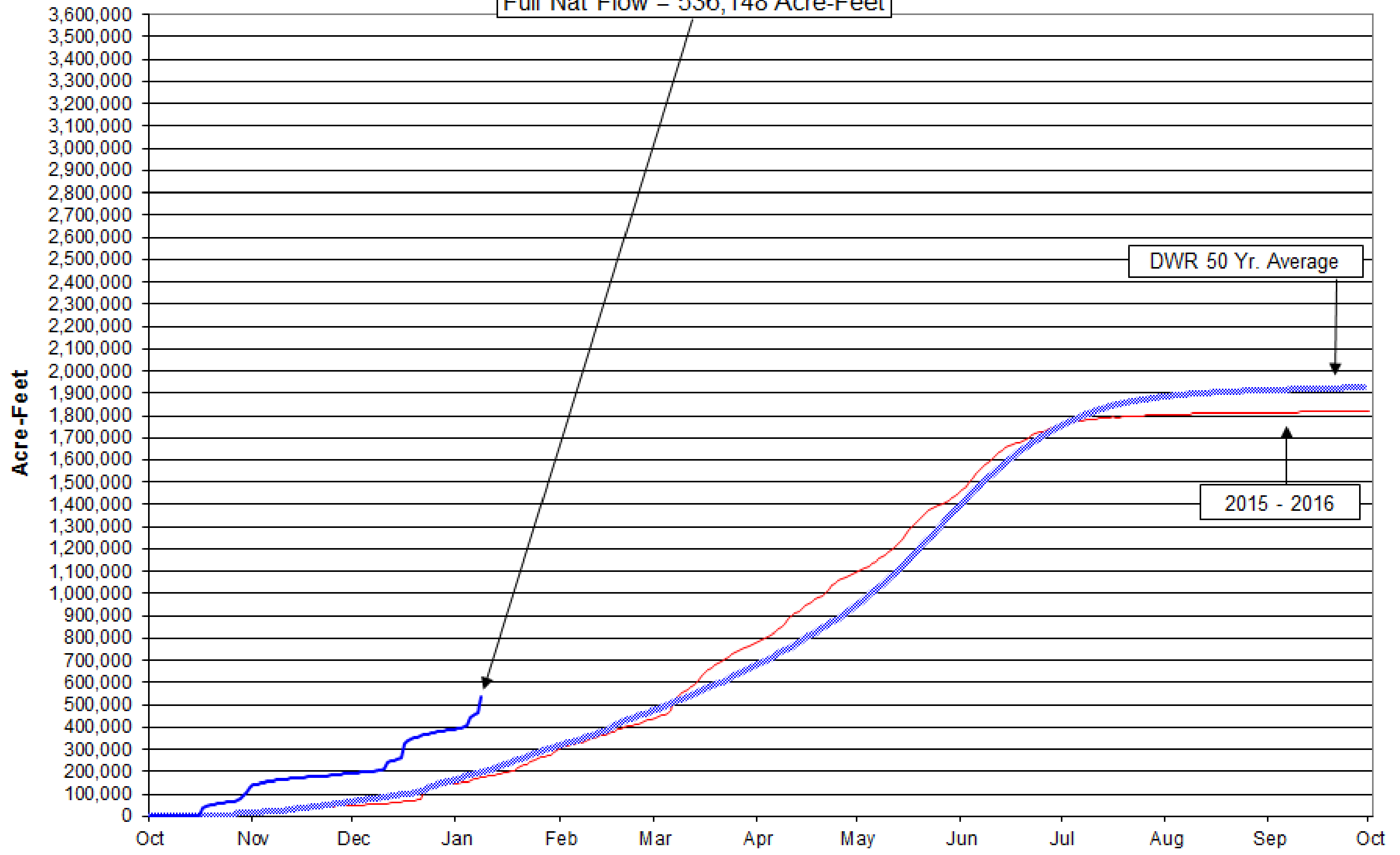
WY2017 Computed Natural Flow

	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	218	5,420	867	1,647								
2	(255)	2,982	38	1,317								
3	(211)	1,714	954	1,946								
4	183	1,955	662	5,473								
5	398	1,231	725	14,538								
6	118	1,083	521	7,479								
7	(8)	1,150	687	4,892								
8	(147)	1,066	877	35,352								
9	272	921	2,129									
10	(234)	1,312	3,728									
11	(41)	366	11,356									
12	314	1,207	4,143									
13	(619)	352	2,574									
14	863	698	1,919									
15	236	581	4,211									
16	1,883	537	32,121									
17	14,942	697	6,447									
18	6,170	906	3,356									
19	2,078	(126)	2,634									
20	1,605	508	2,350									
21	1,484	462	1,813									
22	637	795	1,966									
23	997	582	1,539									
24	1,603	857	2,661									
25	767	579	1,842									
26	1,442	599	1,099									
27	897	1,285	1,544									
28	3,110	1,174	1,514									
29	9,835	1,088	1,554									
30	4,829	545	1,102									
31	11,737		1,103									
Average C.F.S.	2,100	1,084	3,227	9,080								
Total Monthly A.F.	129,134	64,511	198,416	144,087								
DWR 50 YR Average A.F.	20,000	50,000	88,000	153,000	154,000	209,000	270,000	455,000	359,000	137,000	33,000	16,000
<b>Total October-September Computed Natural Flow=</b>				<b>536,148</b>	<b>A.F.</b>				<b>APR-JLY =</b>	<b>0</b>	<b>A.F.</b>	
			<b>Remaining =</b>	<b>1,407,852</b>					<b>Remaining =</b>	<b>1,221,000</b>		



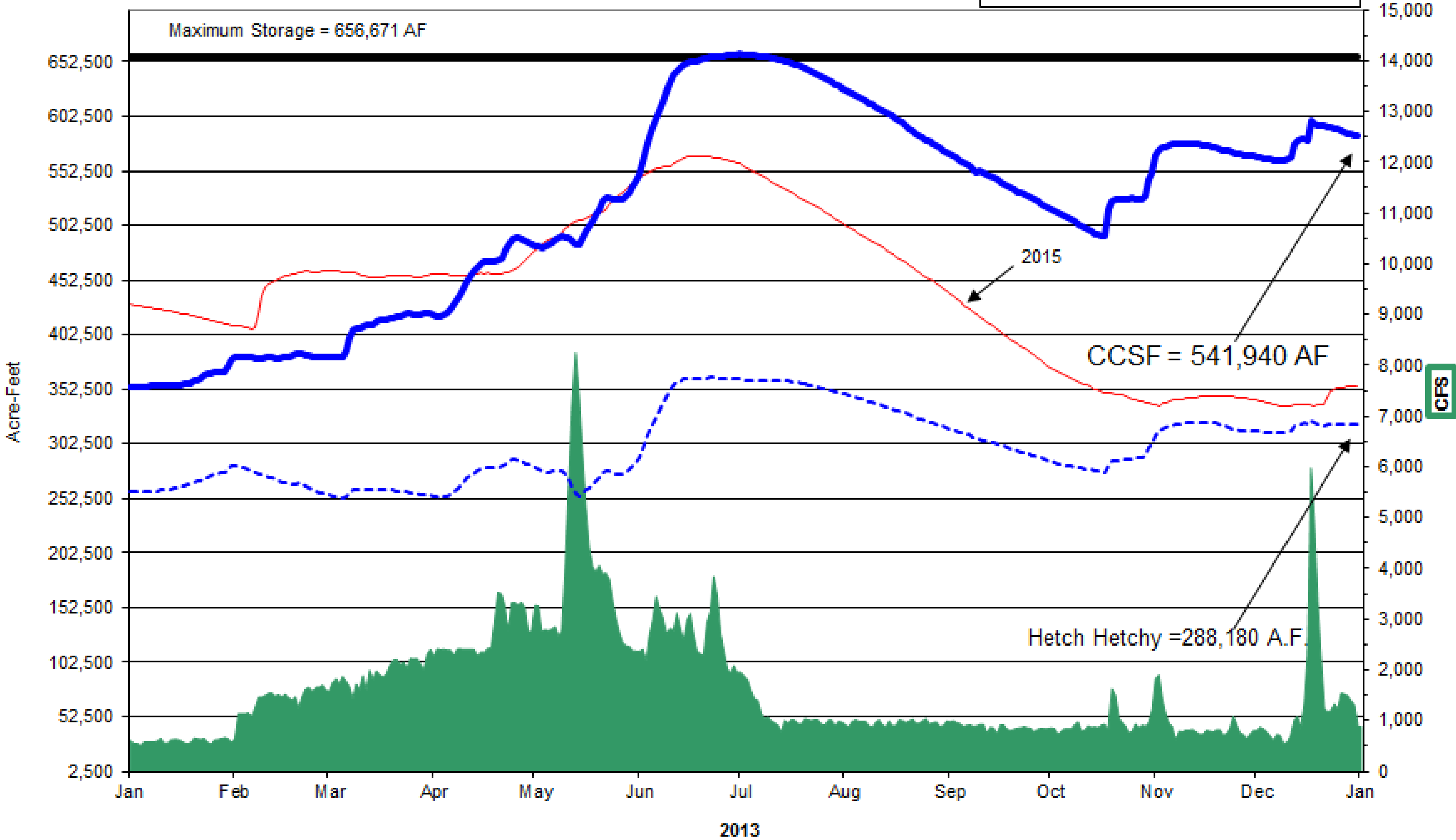
# Full Natural Flow

Full Nat Flow = 536,148 Acre-Feet



# CCSF Total Storage

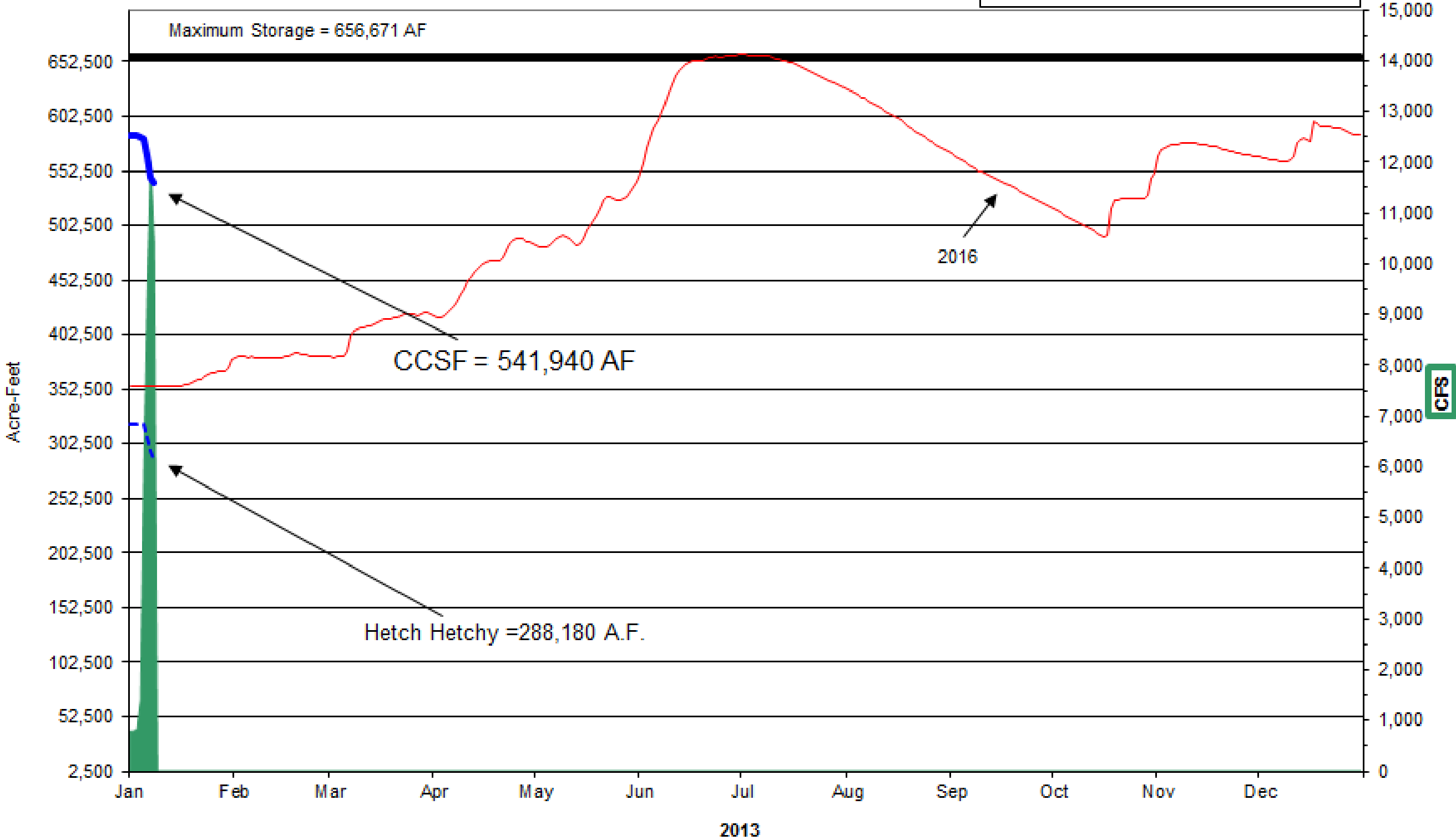
7-Day Average Release: 5,816 cfs  
 7-Day Average Diversion: 00 cfs



Releases (cfs) Max Storage CCSF 2015 CCSF 2016 Hetch Hetchy

# CCSF Total Storage

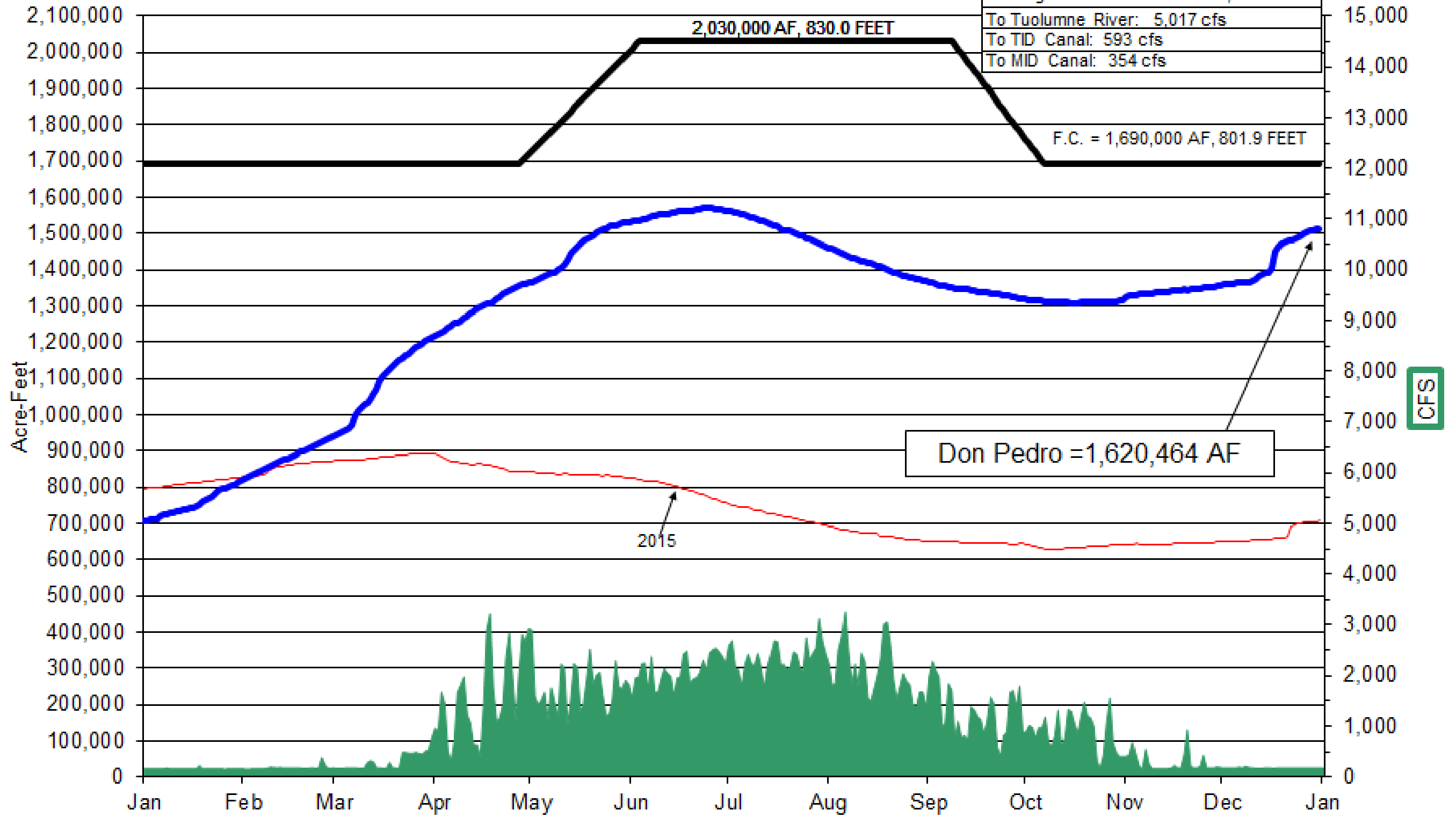
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█ Releases (cfs)   
  Max Storage   
 — CCSF 2016   
 — CCSF 2017   
 - - - Hetch Hetchy

# DON PEDRO STORAGE

Releases During Past 7 Days	
Average Combined Release:	5,965 cfs
To Tuolumne River:	5,017 cfs
To TID Canal:	593 cfs
To MID Canal:	354 cfs



Don Pedro = 1,620,464 AF

2015

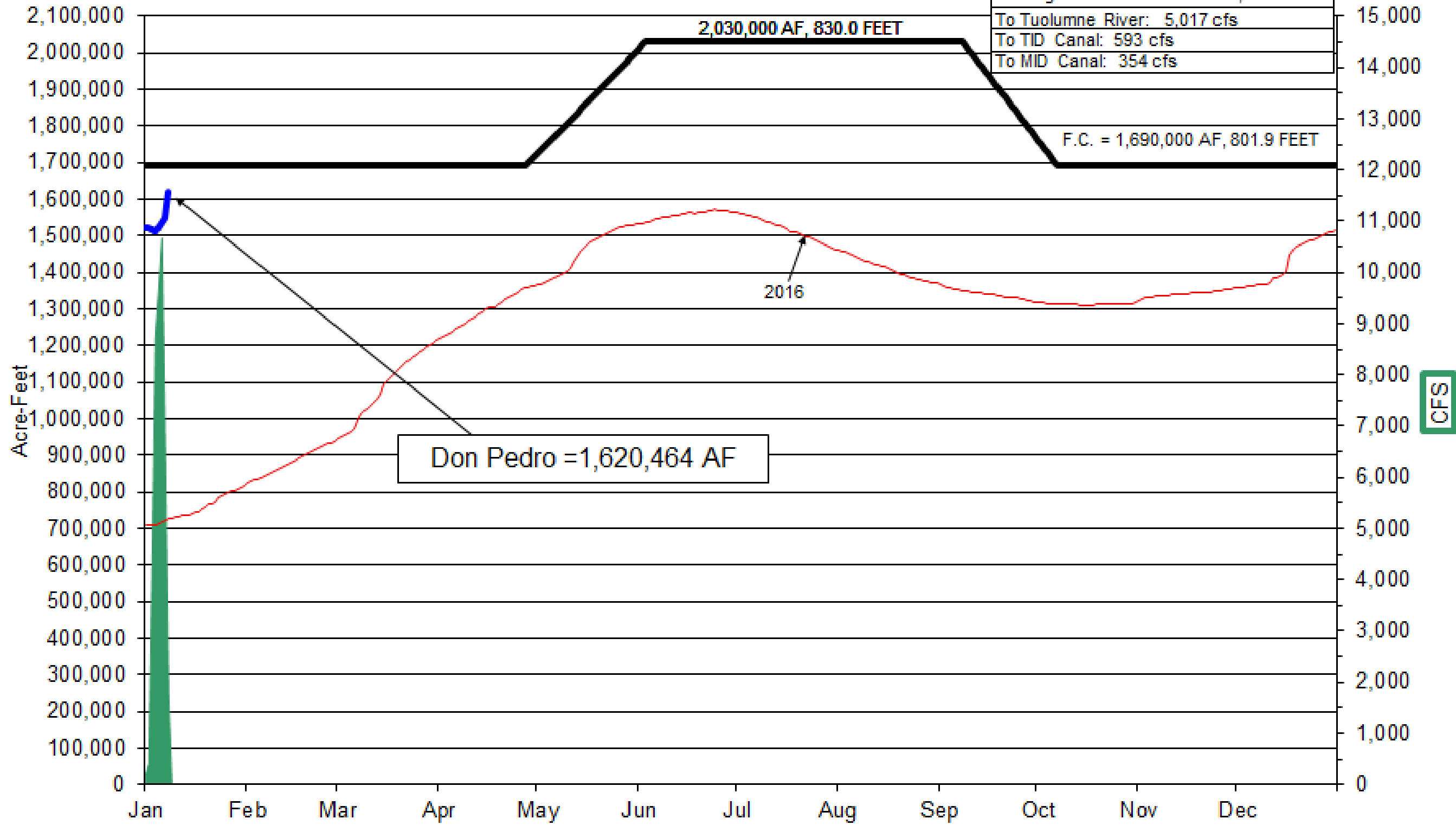
2,030,000 AF, 830.0 FEET

F.C. = 1,690,000 AF, 801.9 FEET

█ Average Combined Release (cfs)   
 — 2015   
 — 2016   
  FLOOD CONTROL   
 Dry   
 Avg.

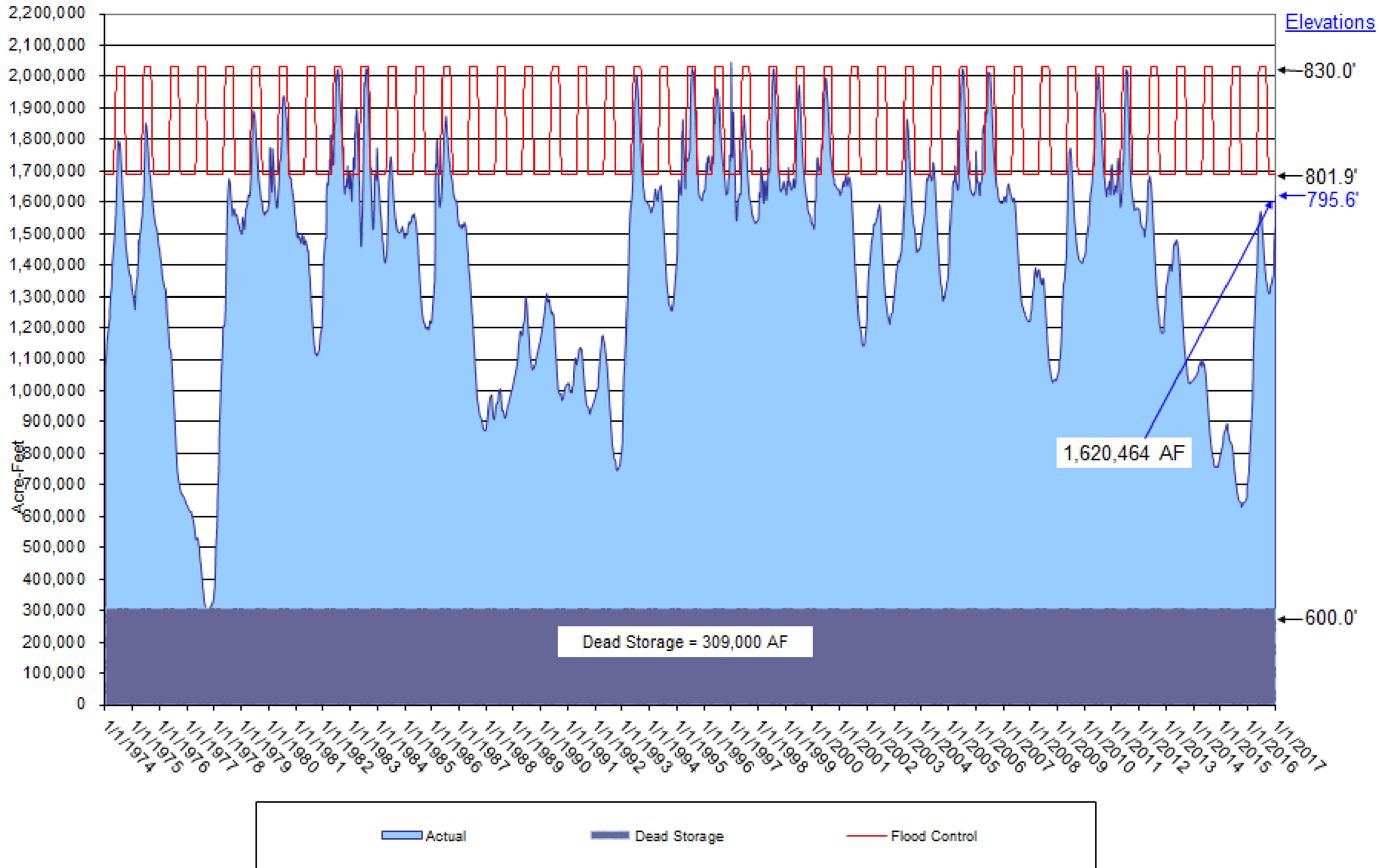
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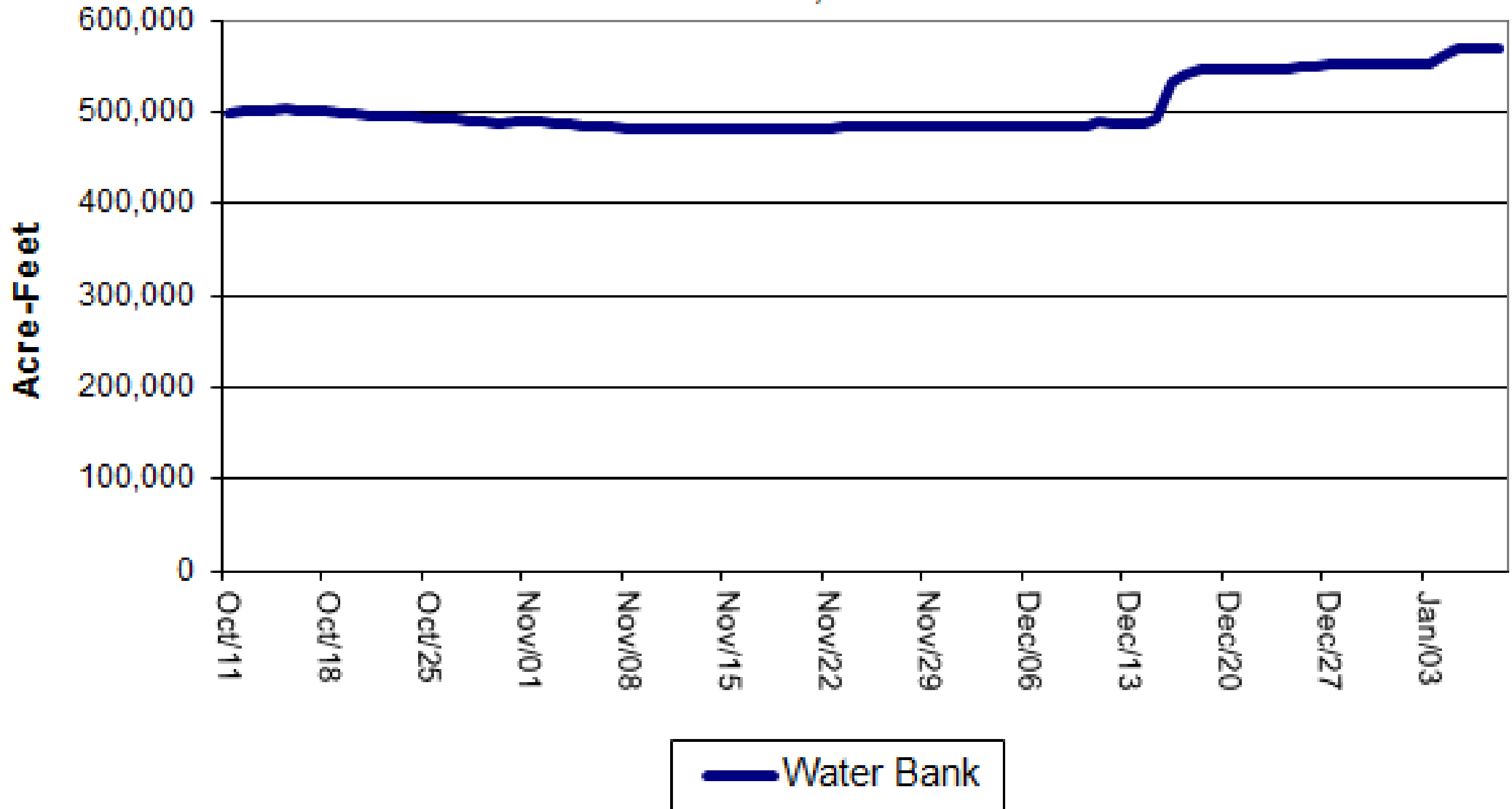
█ Average Combined Release (cfs)    
 — 2016    
 — 2017    
  FLOOD CONTROL    
 Dry    
 Avg.

# HISTORIC DON PEDRO STORAGE



# Don Pedro Water Bank

Water Bank = 570,000 Acre-Feet



# Turlock Lake Storage

