

American River Group

Thursday, March 16 2017 1:30 PM
Central Valley Operation Office, Room 302
3310 El Camino Ave.
Sacramento, CA 95821

1. Fisheries Updates

2. Operations Forecast

3. Temperature Management

DAILY CVP WATER SUPPLY REPORT

MARCH 15, 2017

RUN DATE: March 16, 2017

RESERVOIR RELEASES IN CUBIC FEET/SECOND

RESERVOIR	DAM	WY 2016	WY 2017	15 YR MEDIAN
TRINITY	LEWISTON	310	316	300
SACRAMENTO	KESWICK	4,598	8,109	4,143
FEATHER	OROVILLE (SWP)	800	14,200	1,350
AMERICAN	NIMBUS	19,221	5,730	1,889
STANISLAUS	GOODWIN	209	1,006	307
SAN JOAQUIN	FRIANT	203	8,974	150

STORAGE IN MAJOR RESERVOIRS IN THOUSANDS OF ACRE-FEET

RESERVOIR	CAPACITY	15 YR AVG	WY 2016	WY 2017	% OF 15 YR AVG
TRINITY	2,448	1,683	1,134	1,983	118
SHASTA	4,552	3,377	3,793	3,476	103
FOLSOM	977	564	697	430	76
NEW MELONES	2,420	1,449	549	1,692	117
FED. SAN LUIS	966	750	370	965	129
TOTAL NORTH CVP	11,363	7,823	6,543	8,546	109
MILLERTON	520	331	339	262	79
OROVILLE (SWP)	3,538	2,372	2,662	2,986	126

ACCUMULATED INFLOW FOR WATER YEAR TO DATE IN THOUSANDS OF ACRE-FEET

RESERVOIR	CURRENT WY 2017	DRIEST WY 1977	WETTEST WY 1983	15 YR AVG	% OF 15 YR AVG
TRINITY	1,175	66	1,077	549	214
SHASTA	6,126	1,269	5,945	2,887	212
FOLSOM	4,464	180	3,033	1,179	379
NEW MELONES	1,272	0	989	394	323
MILLERTON	1,402	104	1,383	409	343

ACCUMULATED PRECIPITATION FOR WATER YEAR TO DATE IN INCHES

RESERVOIR	CURRENT WY 2017	DRIEST WY 1977	WETTEST WY 1983	AVG (N YRS)	% OF AVG	LAST 24 HRS
TRINITY AT FISH HATCHERY	36.29	7.46	44.80	25.38 (55)	143	0.00
SACRAMENTO AT SHASTA DAM	81.53	8.72	89.31	48.82 (60)	167	0.00
AMERICAN AT BLUE CANYON	113.35	13.78	84.50	51.73 (42)	219	0.00
STANISLAUS AT NEW MELONES	41.15	0.00	36.67	21.30 (39)	193	0.00
SAN JOAQUIN AT HUNTINGTON LK	69.04	9.10	66.10	32.03 (42)	216	0.00

American River Summary Conditions – March (On-going):

- Seasonal flood control and storage management/fill operations

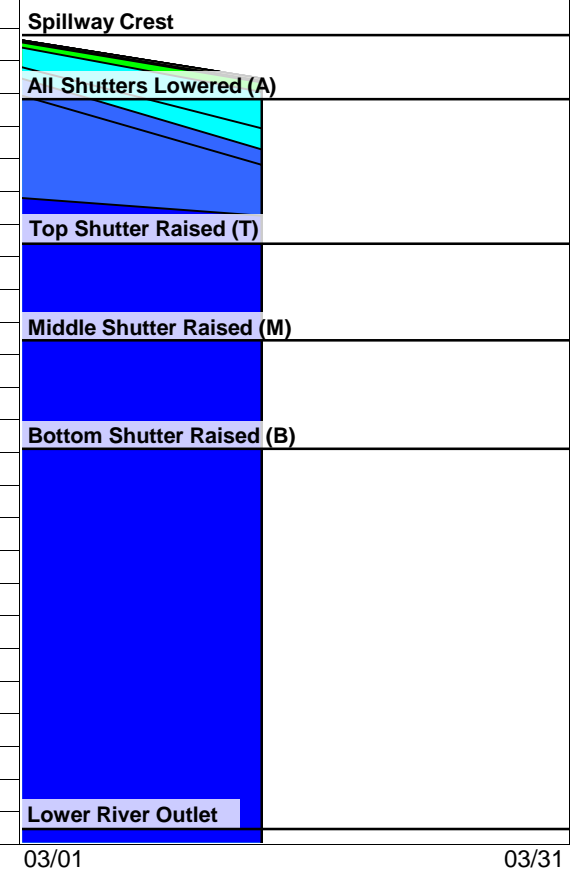
Storage/Release Management Conditions:

- Management Challenge: flood control/fill management

Temperature Management:

- Positive outlook for upcoming temperature control season owing to abundant precipitation and good snowpack.

DATE	Mean Daily Temperatures (°F)							Release (CFS)	Storage (TAF)	Unit Shuter Position / Load Percentage						Isobath Plot			
	Water					Air				Unit 1			Unit 2				Unit 3		
	NFA ²	ARP	AFD ^{1,3}	AHZ ²	AWP	AWB	CSU			Nimbus	Folsom								
Feb	46.4	44.9	47.7	47.6	47.5	47.6	46.7	21925	-	-	-	-	-	-	-	-	-	-	
03/01	#	43.7	#	#	47.6	47.8	? 48.2	18697	391	M	33	B	33	B	33				
03/02	#	43.8	#	#	47.4	47.7	51.3	14773	384	M	33	B	33	B	33				
03/03	#	43.9	#	#	47.3	47.7	? 53.1	12436	380	M	33	B	34	B	34				
03/04	#	44.4	#	#	47.1	47.6	? 53.5	10718	377	M	33	B	33	B	34				
03/05	#	45.3	#	#	46.8	47.3	? 46.5	9481	380	M	34	B	32	B	34				
03/06	#	44.2	#	#	46.6	46.9	? 46.8	8825	384	M	33	B	33	B	34				
03/07	#	43.4	#	#	47.1	47.5	? 48.7	8433	384	M	40	B	41	B	18				
03/08	#	44.3	#	#	47.9	48.3	53.9	7441	384	M	50	B	50	B	0				
03/09	#	44.9	#	#	48.2	48.9	? 59.0	6492	388	M	50	B	50	B	0				
03/10	#	45.5	#	#	48.1	48.8	? 60.6	5808	395	M	50	B	50	B	0				
03/11	#	46.3	#	#	48.2	48.8	? 61.0	5619	403	M	50	B	50	B	0				
03/12	#	46.5	#	#	48.0	48.7	61.9	5403	409	M	50	B	50	B	0				
03/13	#	47.3	#	#	48.6	49.4	? 61.5	5695	415	M	50	B	50	B	0				
03/14	#	48.0	#	#	48.7	49.5	64.3	5761	422	M	50	B	48	B	2				
03/15	#	48.0	#	#	48.8	49.3	62.8	5730	430	M	50	B	50	B	0				
03/16																			
03/17																			
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03/28																			
03/29																			
03/30																			
03/31																			
Mar	-	45.3	-	-	47.8	48.3	55.5	8754											
								Total AF	260452										



Legend

- ? = 1-9 hours of data missing
- ! = 10 or more hours of data missing
- # = Station out of service
- ☐ = Monthly Averages

- A = All Shutters Lowered
- T = Top Shutter Raised
- M = Middle Shutter Raised
- B = Bottom Shutter Raised
- O = Unit Outage

Notes

- 1 AFD is a weighted average using hourly flow values
- 2 NFA and AHZ were damaged by flood waters on 1/11
- 3 AFD was damaged by flood waters on 2/11
- 4
- 5
- 6

DRAFT March 2017

90% Runoff Exceedance Outlook:

Inflow based on 90% historical average runoff for all months.

Federal End of the Month Storage/Elevation (TAF/Feet)

		Mar	Apr	May	Jun	Jul	Aug
Folsom	404	580	759	966	944	784	647
	Elev.	426	445	465	463	448	434

Monthly River Releases (cfs)

American	8000	6000	6500	6500	5000	4000
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MRR	1750	1750	1750	1750	1750	1750
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50% Runoff Exceedance Outlook:

Inflow based on 50% historical average runoff for all months.

Federal End of the Month Storage/Elevation (TAF/Feet)

		Mar	Apr	May	Jun	Jul	Aug
Folsom	404	618	739	957	945	889	698
	Elev.	430	443	464	463	458	439

Monthly River Releases (cfs)

American	8000	8500	8500	9500	5000	5000
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Please note:

CVP actual operations do not follow any forecasted operation or outlook; actual operations are based on real-time conditions.

CVP operational forecasts or outlooks consider general system-wide dynamics and do not necessarily address specific watershed/tributary details.

CVP releases represent monthly averages.

CVP operations are updated monthly as new hydrology information is made available December through May.

Shaded area represents less confident hydrologic inputs of the future water year.

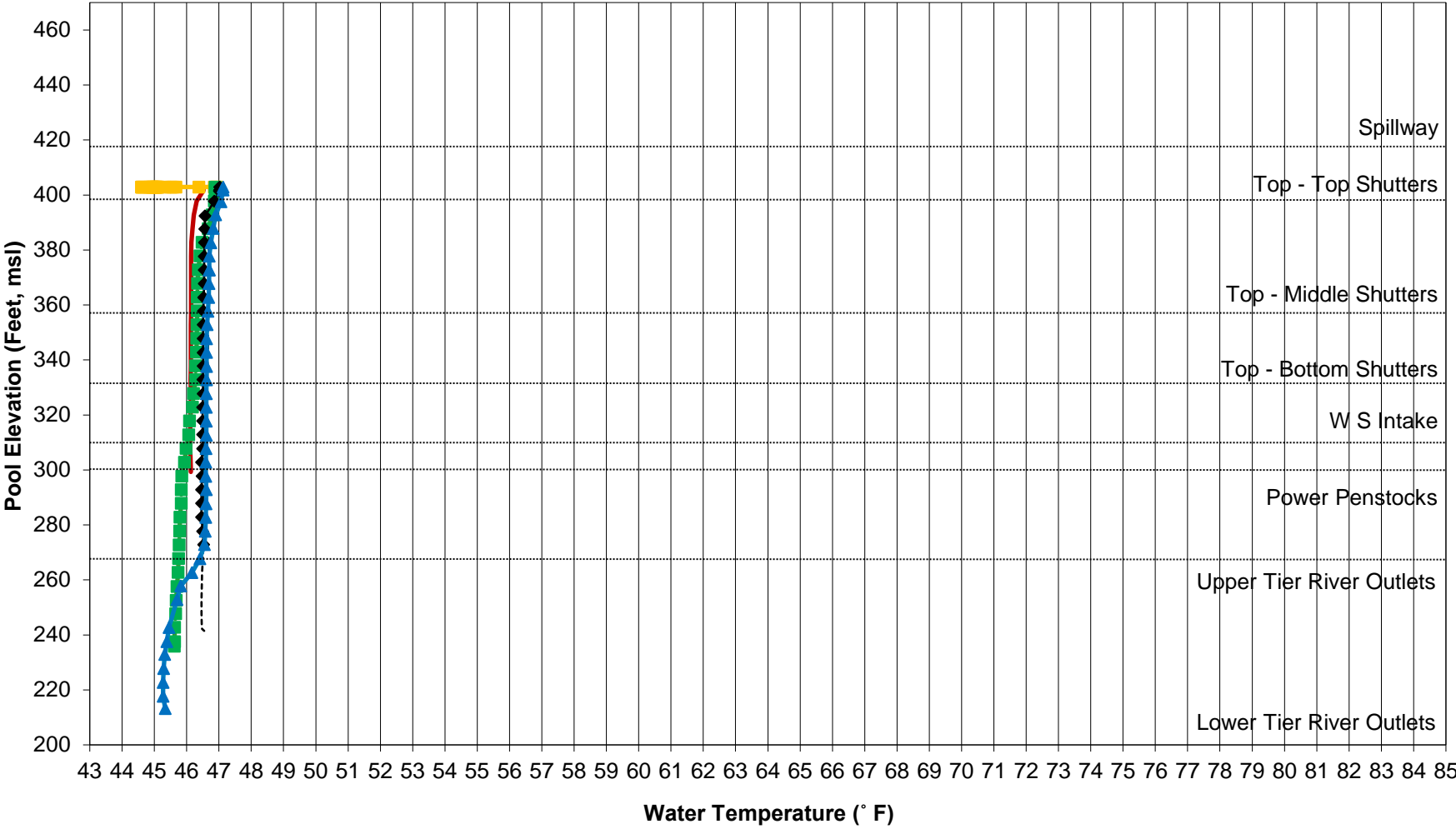
Folsom Cold Water Pool

Folsom Reservoir: Cold Water Volume

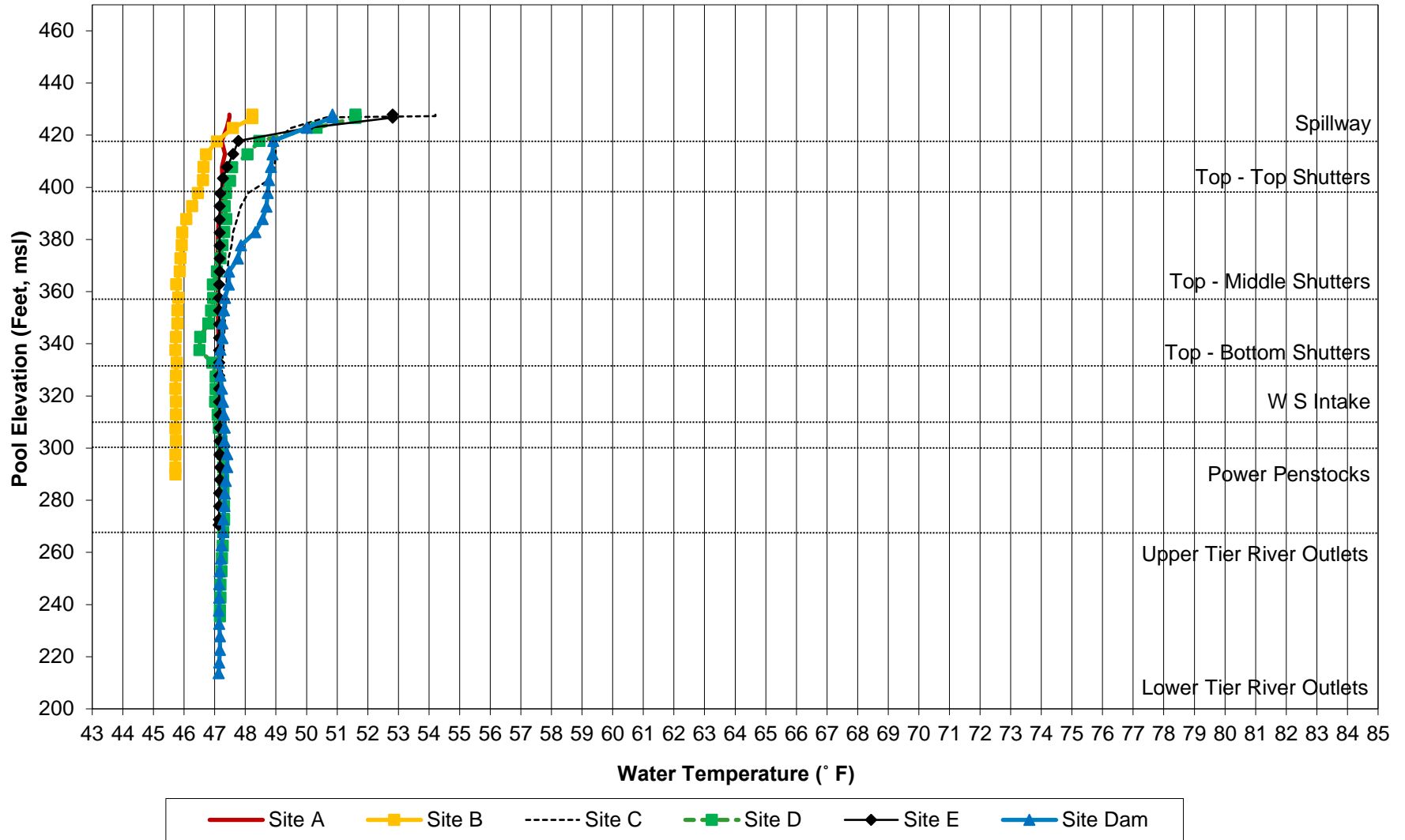
Profile Date	Volume less than 56°F (TAF)
03/14/17	379

Last year there was a 6 TAF decrease of Cold Water Pool <60°F between mid-Sept and early-Oct

Folsom Lake Temperature Profiles: 24-Jan-2017



Folsom Lake Temperature Profiles: 14-Feb-2017



Folsom Lake Temperature Profiles: 14-Mar-2017

