



— BUREAU OF —
RECLAMATION

American River Group

1:30 PM – 3:30 PM

Conference Line: +1 (321) 209-6143;

Access Code: 596336817#

Webinar: Join Microsoft Teams Meeting

Thursday, July 16, 2026

Agenda

1. Introductions
2. Announcements
3. Operations Forecast
 - a. SMUD
 - b. PCWA
4. Central Valley Operations
5. Fisheries Update
 - a. CDFW
 - b. CFS
 - c. PSMFC
6. WY2026 Bypass Discussions Introduction
7. Next Meetings:
 - a. Regular Monthly ARG Meeting – Thursday, August 20, 1:30-3:30pm

American River Group - SMUD Update

Data Current as of 07/15/2026

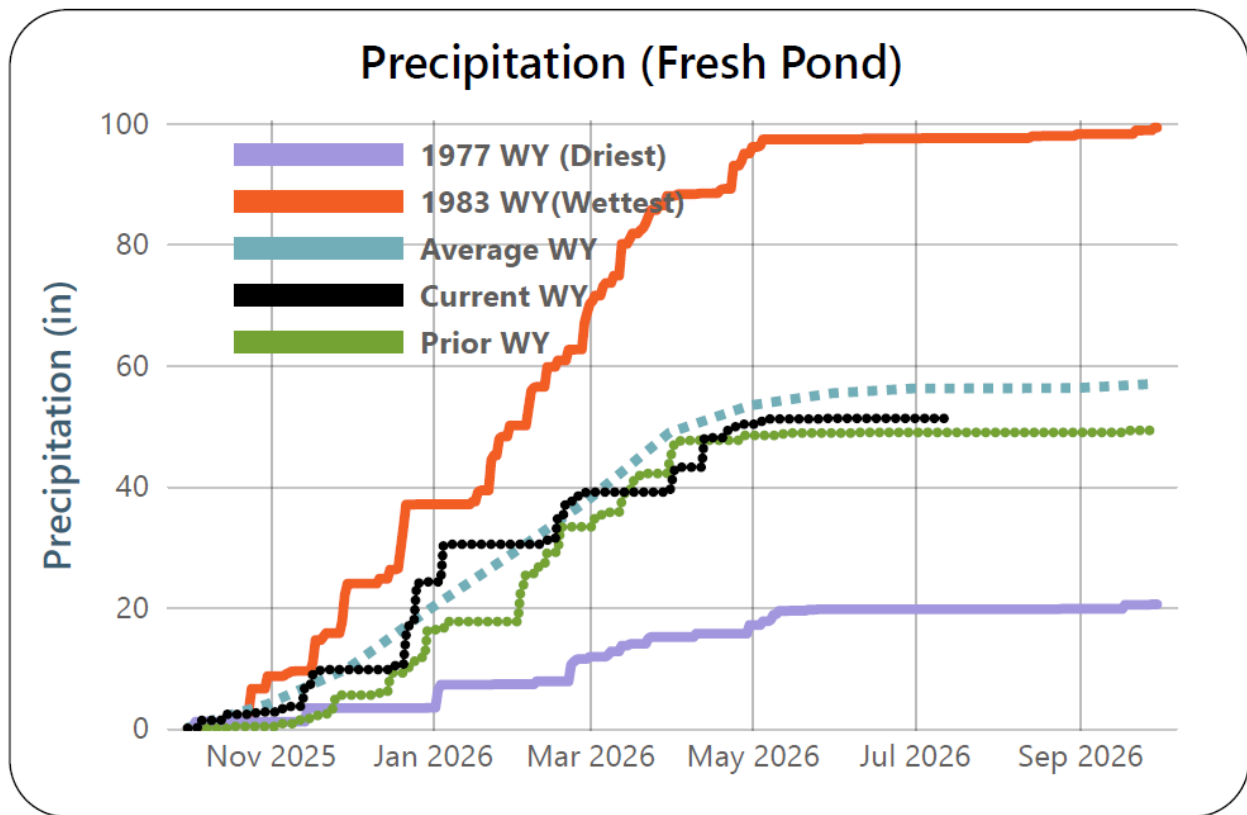


Figure 1. Fresh Pond Precipitation

Figure 1 is a line graph of fresh pond precipitation in inches for October 2025 – September 2026. It includes precipitation data from the driest water year (1977), 1983's water year snowpack, average, current, and prior water year. The current precipitation is 91.2% of the average to date and 90.0% of the water year average.

Table 1. Fresh Pond Precipitation

Month	Current Water Year	Historical Average	% of Historical Average
October	2.70	3.99	68%
November	7.00	5.87	119%
December	14.50	9.88	147%
January	6.20	9.16	68%
February	8.55	8.70	98%
March	0.08	11.28	1%
April	11.21	4.46	251%

Month	Current Water Year	Historical Average	% of Historical Average
May	0.97	2.02	48%
June	0.00	0.78	0%
July	0.01	0.04	25%
August	0.00	0.04	0%
September	0.00	0.72	0%
Total	51.22	56.94	90%

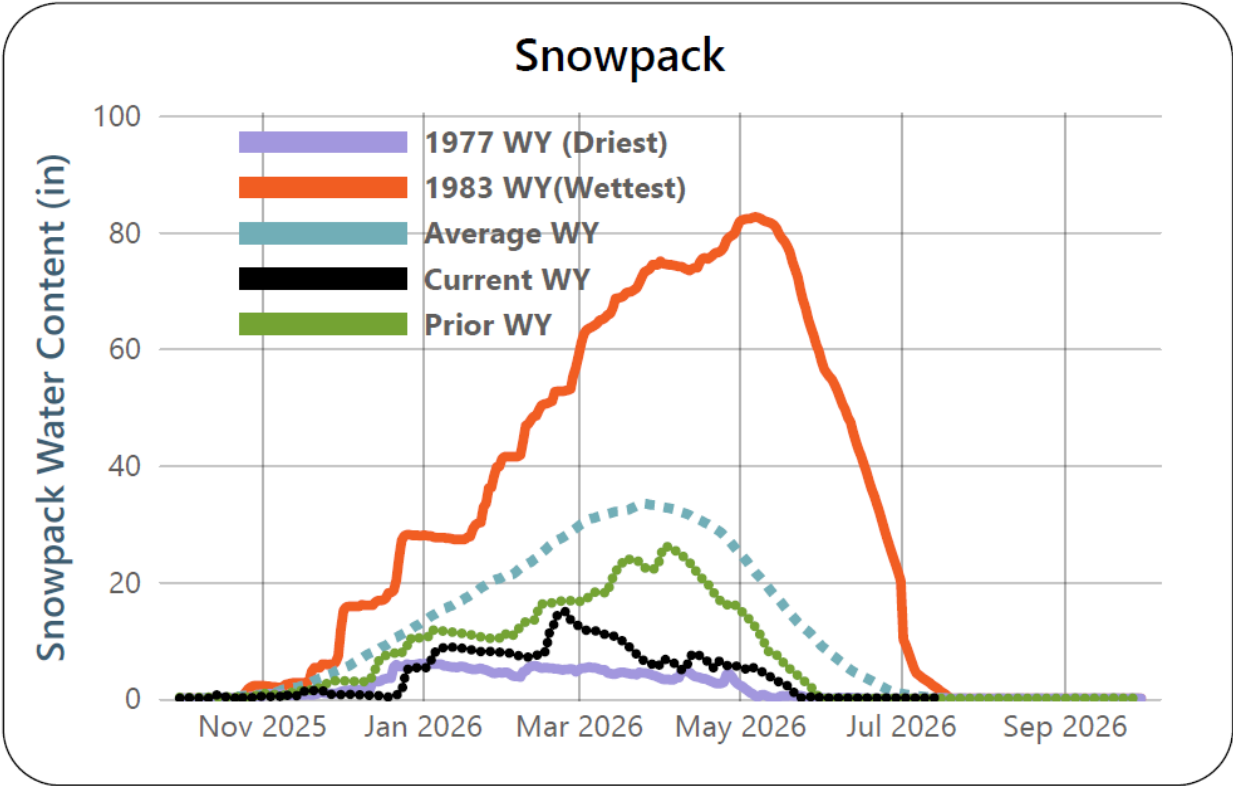


Figure 2. Snowpack

Figure 2 is a line graph of snowpack water content in inches for October 2025- September 2026. It includes data from the driest water year (2015), 1983’s water year snowpack, average, current, and prior water year. Runoff into the storage reservoir basins is 101.1% of average to date and 0.3% of the April 1 average.

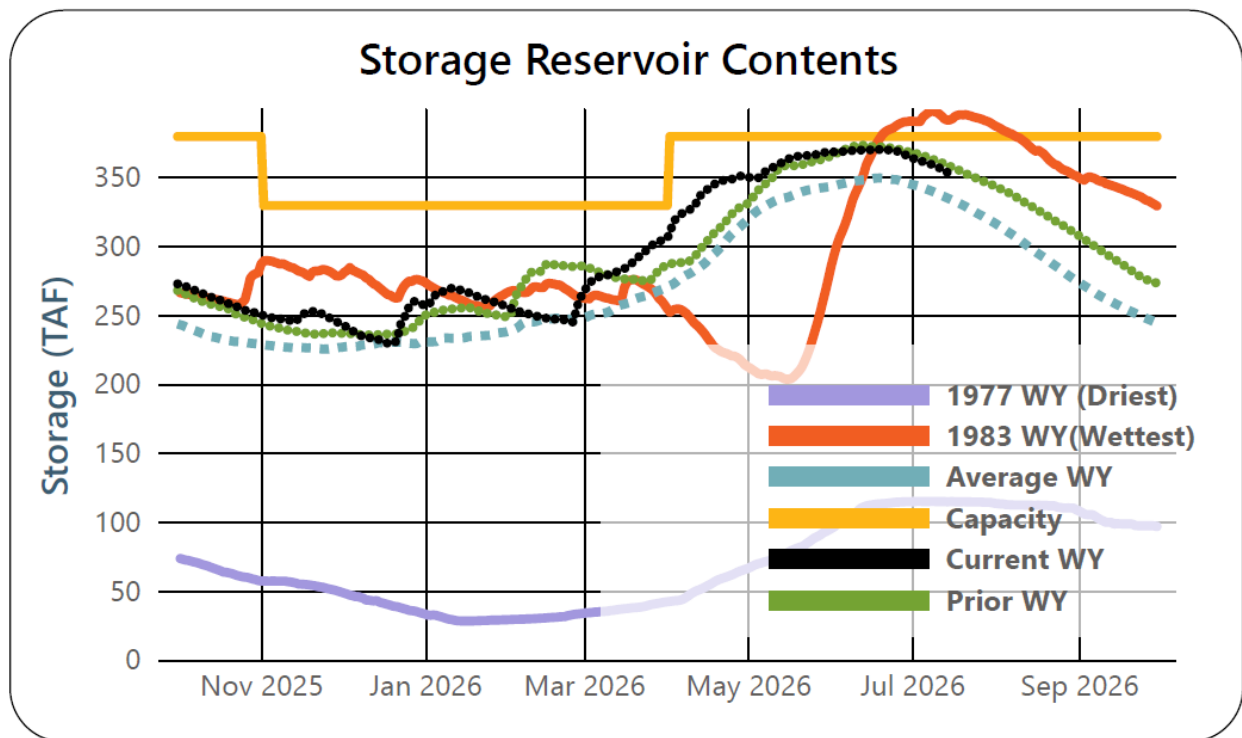


Figure 3. Storage Reservoir Contents

Figure 3 is a line graph of SMUD storage reservoir contents for October 2025 through September 2026. It includes data from the driest water year (1977), 1983's water year snowpack, average, current, and prior water year. The total capacity of the reservoir network is also shown.

Table 2. SMUD Storage Reservoirs

Reservoir	Capacity Acre-ft	Current Acre-ft	Current % Full	Prior Year Acre-Ft	Prior Year % Full	Hist. Avg Acre-ft	Hist. Avg % Full
Loon Lake Reservoir	69,310	65,561	94.6%	63,969	92%	61,355	89%
Ice House Reservoir	43,500	35,330	81.2%	39,245	90%	37,812	87%
Union Valley Reservoir	266,370	250,691	94.1%	254,767	96%	234,856	88%
Total Reservoir Storage	379,180	351,582	92.7%	357,982	94%	334,022	88%

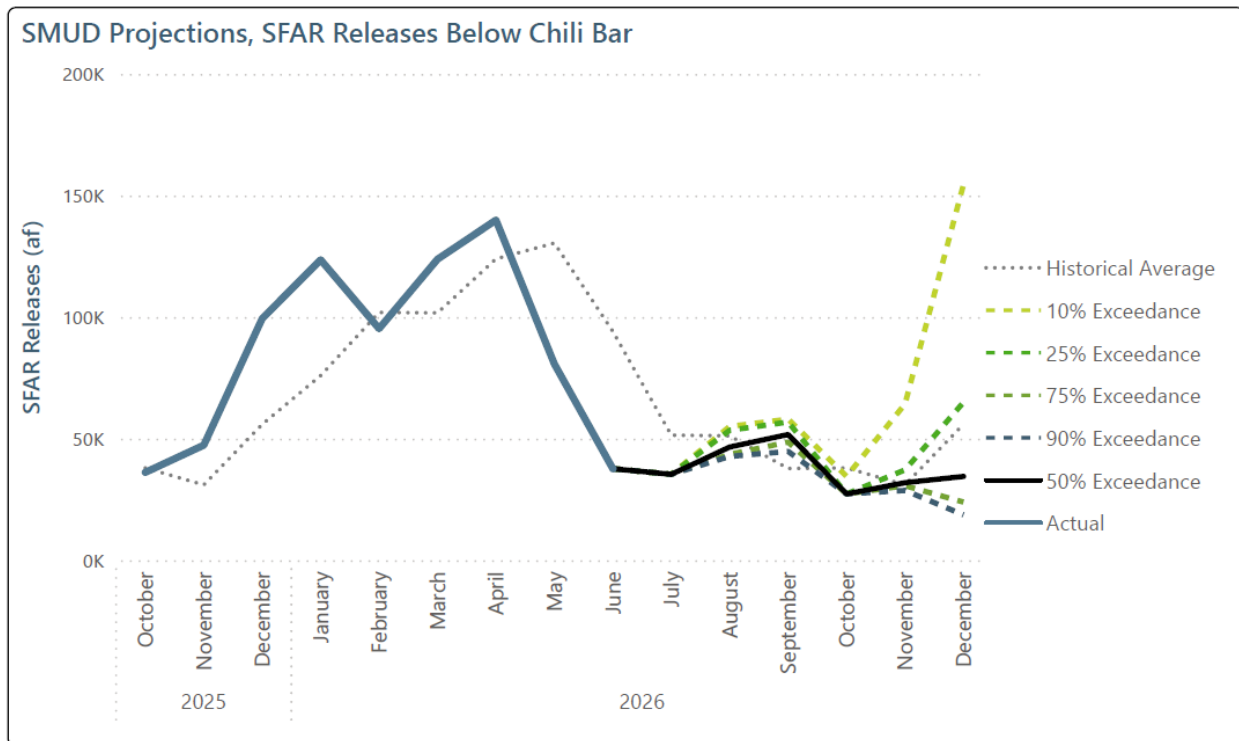


Figure 4. Chili Bar releases into the South Fork American River. Projections based on forecast from June 15, 2026.

Figure 4 is a line graph of observed and projected releases below Chili Bar from October 2025 to December 2026. The graph includes a last 10-year average, actual prior water year data, and projections of 90%, 75%, 50%, 25%, and 10% exceedance likelihood.

Table 3. Chili Bar releases into the South Fork American River

Type (Actual or Forecast)	Date	Daily Mean Release Rate (cfs)	Monthly Total Release (acre-ft)	Monthly Total Release (90% Exceedance)	Monthly Total Release (10% Exceedance)
Actual	Oct-25	589	36,150	36,150	36,150
Actual	Nov-25	797	47,329	47,329	47,329
Actual	Dec-25	1,619	99,405	99,405	99,405
Actual	Jan-26	2,013	123,558	123,558	123,558
Actual	Feb-26	1,718	95,255	95,255	95,255
Actual	Mar-26	2,017	123,809	123,809	123,809
Actual	Apr-26	2,355	139,898	139,898	139,898
Actual	May-26	1,315	80,708	80,708	80,708
Actual	Jun-26	634	37,649	37,649	37,649
Forecast	Jul-26	576	35,347	35,347	35,347

Type (Actual or Forecast)	Date	Daily Mean Release Rate (cfs)	Monthly Total Release (acre-ft)	Monthly Total Release (90% Exceedance)	Monthly Total Release (10% Exceedance)
Forecast	Aug-26	759	46,566	42,699	55,042
Forecast	Sep-26	871	51,722	44,762	58,033
Forecast	Oct-26	444	27,277	27,277	34,503
Forecast	Nov-26	537	31,905	28,709	64,260
Forecast	Dec-26	562	34,473	18,676	154,424

PCWA MFP Operations Overview for American River Operations Group (Real Time Data as of June 18, 2026)

- French Meadows Storage = 119,000 AF of 136,405 AF = 87% Capacity
 - MFAR above FM Inflow (R24) = 7-day AVG ~5 cfs
- Hell Hole Storage = 168,000 AF of 207,590 AF = 81% Capacity
 - Five Lakes Inflow (R23) = 7-day AVG ~5 cfs
 - Rubicon Inflow (R22) = 7-day AVG ~ 5 cfs
- Combined Storage (FM+HH) = 288,000 AF/342,590 AF = 84% Capacity; 102% of AVG (66'-25')
- MFAR @ R11: 7-day AVG ~750 cfs
- NFAR @ ARPS: 7-day AVG ~925 cfs
- Combined storage for the last 30 days => - 29 TAF
 - French Meadows = -6 TAF
 - Hell Hole = -23 TAF
- Combined storage on 7/16/2025 = 275 TAF; 98% of HISTORICAL AVG
- Currently in summer hydro-operations to provide MFP water to PCWA service areas, maintain recreational releases 7-days-per-week, and provide environmental flows consistent with PCWA's FERC license.
- 2026 PCWA Petition for Temporary Change in POD/PORD and POU Under P13856
 - Petition submitted June 5th - Noticed June 15th – Comment Period Close July 15th
 - 21,053 AF of surplus MFP water to WWD under P13856
 - Released above baseline OPS in August/September

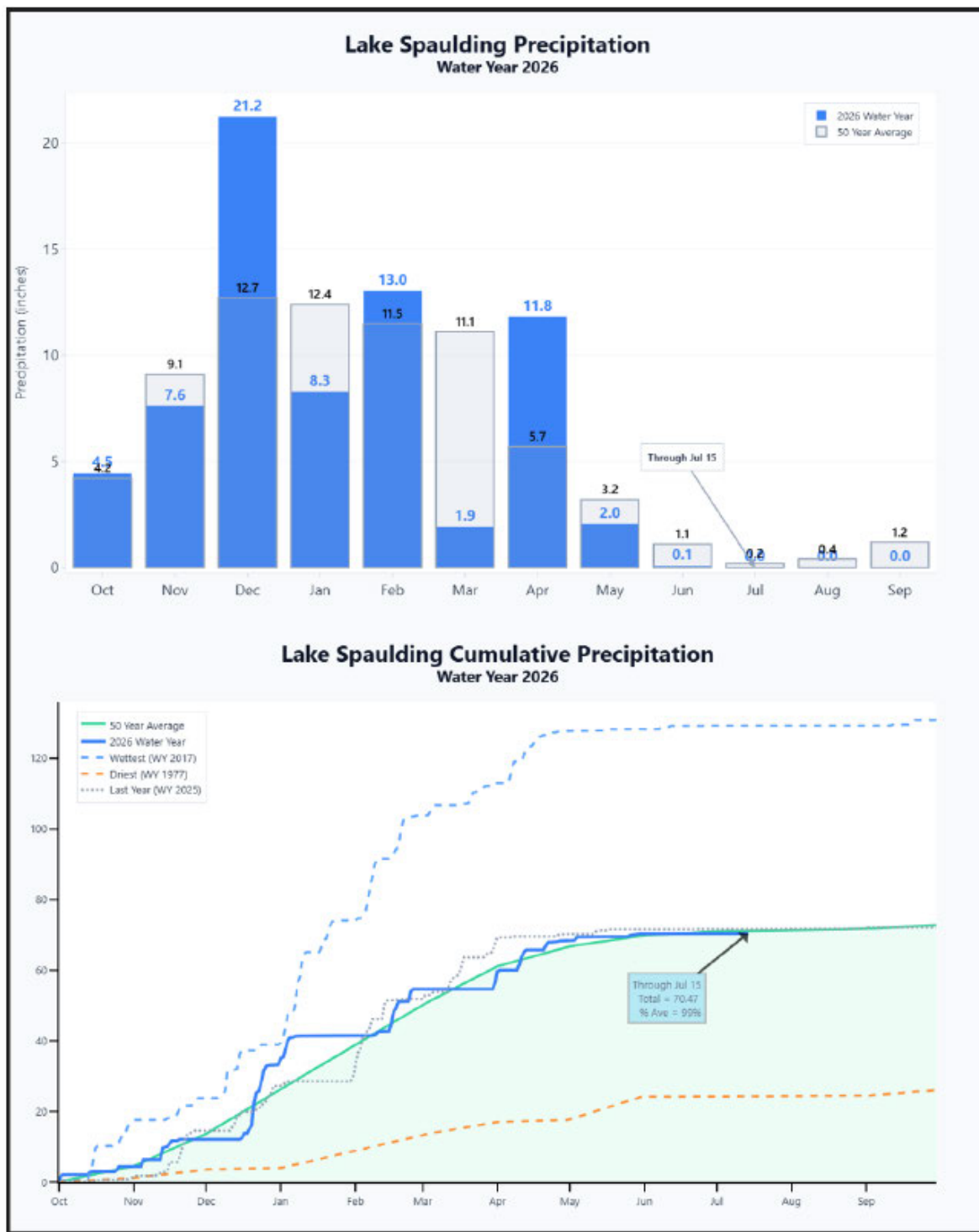


Figure 5. Lake Spaulding Precipitation, Water Year 2026.

Figure 5 has two graphs. The first is a bar graph showing total precipitation over time, comparing the 2026 water year to the 50-year average by month. The second is a line graph comparing cumulative precipitation with the 50-year average, the 2026 water year, the wettest water year, the driest water year, and the last water year. Totals through June 17 are 70.47 inches with a 50-year average of 71.18 inches (99% of average).

PCWA Middle Fork Project July 1, 2026 Reservoir Elevation Forecast

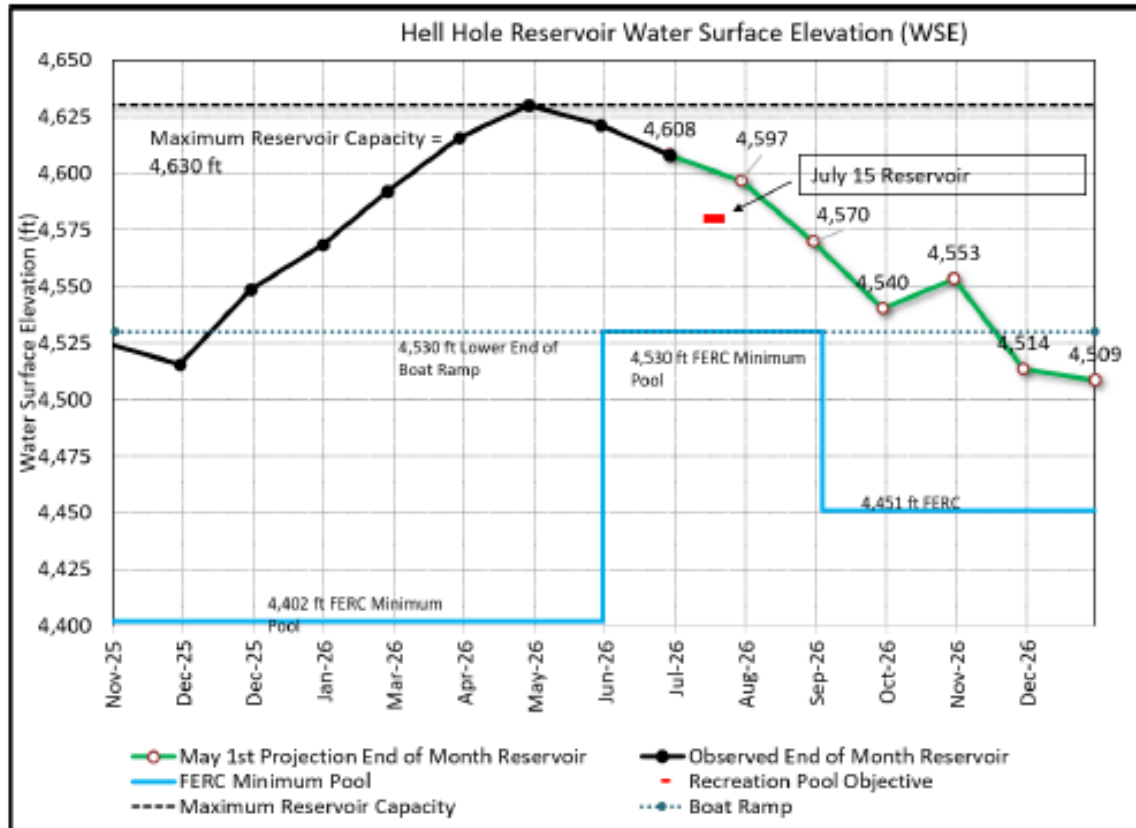


Figure 6. Hell Hole Reservoir Water Surface Elevation and Operational Targets, 2025–2026

Figure 6 displays Hell Hole Reservoir water surface elevation from November 2025 through December 2026 against FERC minimum pool (blue), Recreation Pool Objective (teal), Boat Ramp elevation (4,530 ft), and Maximum Reservoir Capacity (4,630 ft). Observed WSE peaks at 4,630 ft in May 2026 before declining to 4,509 ft by December, remaining above FERC minimums throughout. The FERC minimum steps from 4,402 ft to 4,530 ft in July, then drops to 4,451 ft in August.

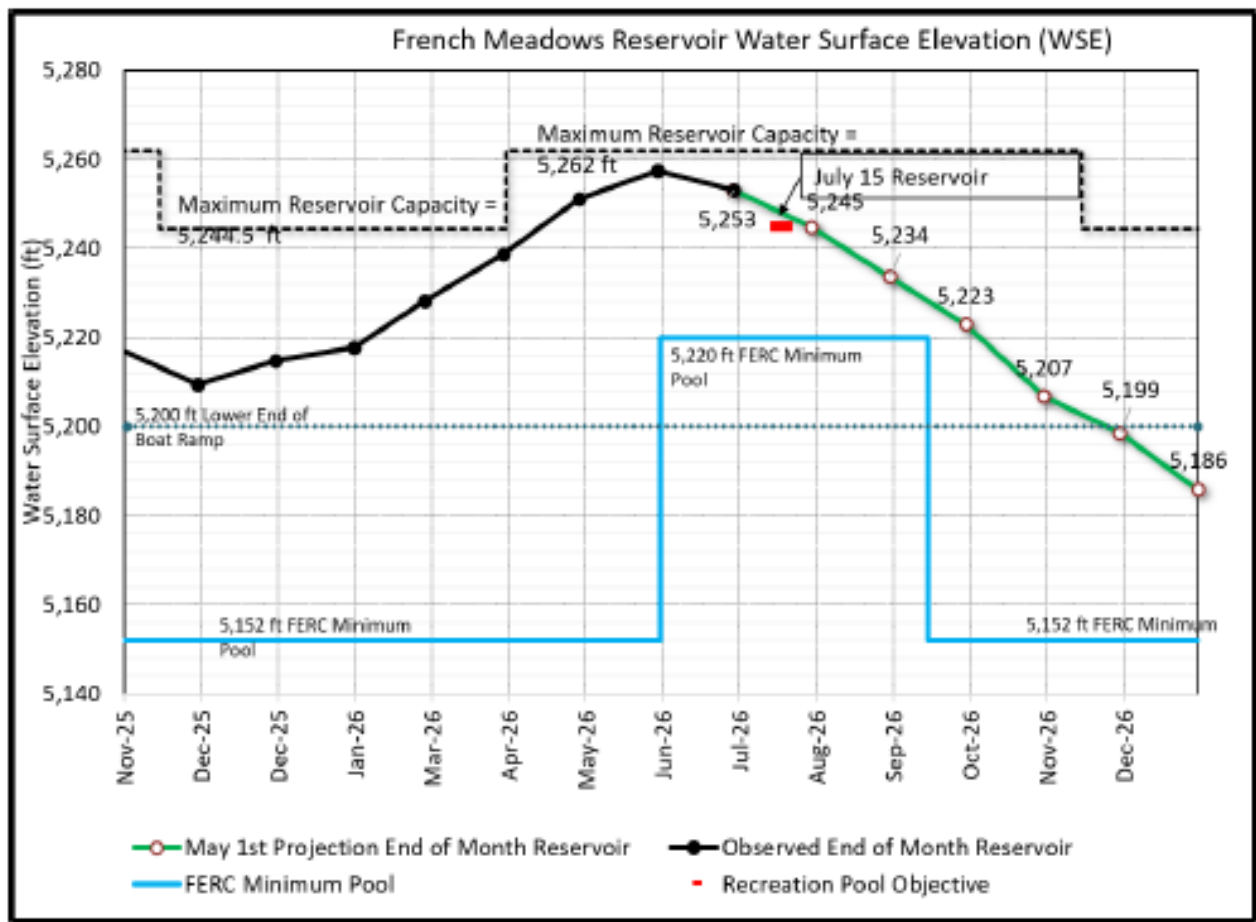


Figure 7 . French Meadows Reservoir Water Surface Elevation and Operational Targets, 2025–2026

Figure 7 displays French Meadows Reservoir water surface elevation from November 2025 through December 2026 against FERC minimum pool (blue), Recreation Pool Objective (red), Boat Ramp elevation (5,200 ft), and Maximum Reservoir Capacity (5,244.5 ft, expanding to 5,262 ft). Observed WSE peaks at 5,253 ft in June 2026 before declining steadily to 5,186 ft by December, remaining above the FERC minimum throughout. The FERC minimum steps from 5,152 ft to 5,220 ft in July, then returns to 5,152 ft in August.

Table 4. Reservoir Releases in Cubic Feet/Second

Reservoir	Dam	WY 2025	WY 2026	15 Yr Median
Trinity	Lewiston	964	450	465
Sacramento	Keswick	13,948	12,998	10,996
Feather	Oroville (SWP)	8,000	8,001	5,000
American	Nimbus	4,785	4,487	3,980
Stanislaus	Goodwin	275	278	304
San Joaquin	Friant	239	0	443

Table 5. Storage in Major Reservoirs in Thousands of Acre-Feet

Reservoir	Capacity	15 Yr Avg	WY 2025	WY 2026	% of 15 Yr Avg
Trinity	2,448	1,601	2,158	1,952	122
Shasta	4,552	3,110	3,547	3,345	108
Folsom	977	672	714	771	115
New Melones	2,420	1,459	1,775	1,657	114
Fed. San Luis	966	381	378	519	136
Total North CVP	11,363	7,222	8,572	8,244	114
Millerton	521	376	378	0	0
Oroville (SWP)	3,425	2,356	2,982	2,821	120

Table 6. Accumulated Inflow for Water Year to Date in Thousands of Acre-Feet

Reservoir	Current WY 2026	WY 1977	WY 1983	15 Yr Avg	% of 15 Yr Avg
Trinity	1,075	193	2,690	1,042	103
Shasta	4,469	2,098	10,032	4,338	103
Folsom	2,192	298	6,051	2,290	96
New Melones	683	N/A	2,520	870	79
Millerton	1,256	229	3,951	1,313	96

Table 7. Accumulated Precipitation for Water Year to Date in Inches

Reservoir	Current WY 2026	WY 1977	WY 1983	Average (N Years)	% of Average	Last 24 Hours
Trinity at Fish Hatchery	31.00	12.06	54.73	30.07 (66)	103	0.00
Sacramento at Shasta Dam	68.76	17.42	112.44	58.83 (71)	117	0.00
American at Blue Canyon	59.36	15.64	103.88	63.71 (52)	93	0.00
Stanislaus at New Melones	28.38	N/A	45.33	26.61 (49)	107	0.00
San Joaquin at Huntington Lk	31.45	17.20	81.40	39.36 (53)	80	0.00

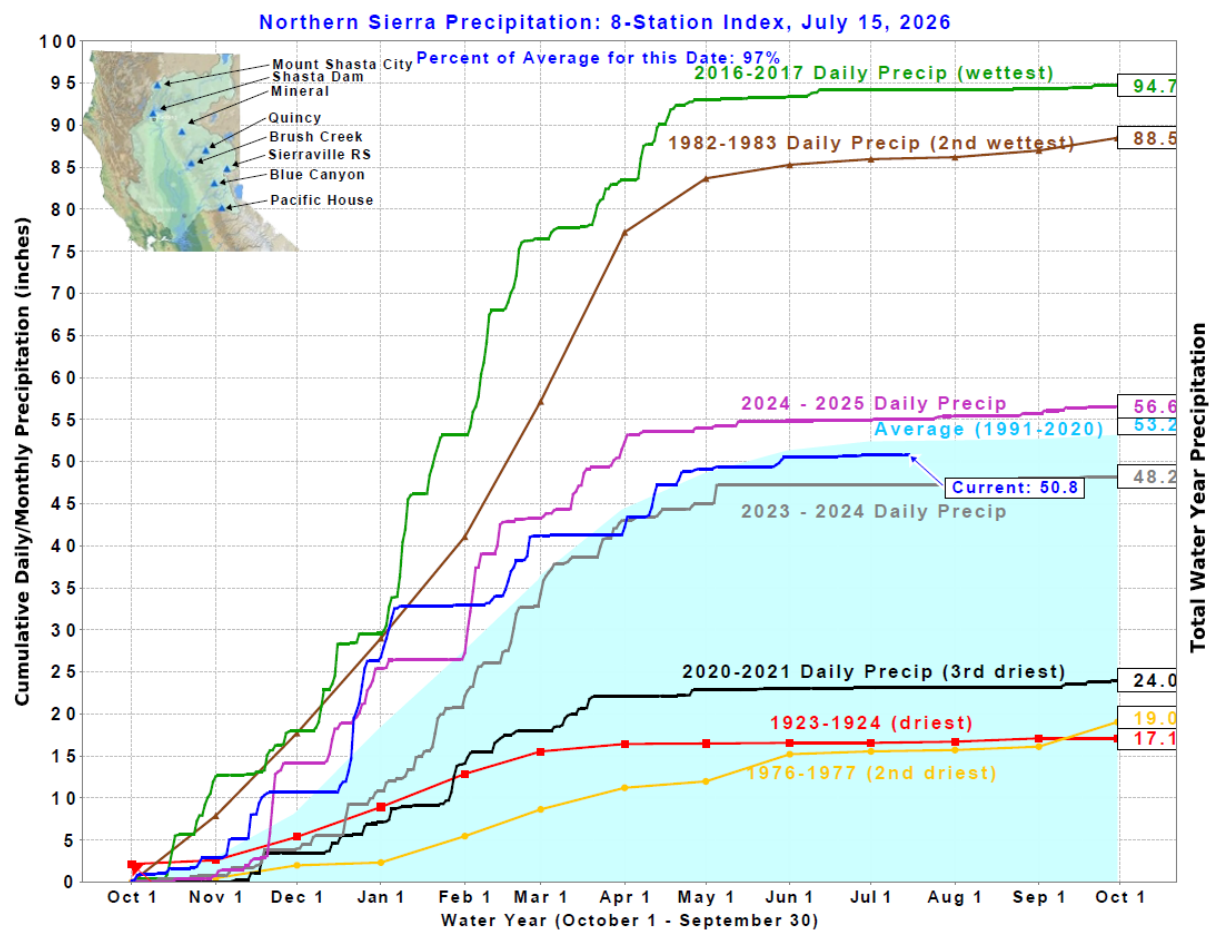


Figure 8. Total and Daily/Monthly Precipitation for Water Year 2026

Figure 8 is a graph depicting total year precipitation and cumulative daily/monthly precipitation in inches for the Northern Sierra 8-Station Index as of June 17, 2026. The average for 1991–2020 is shown as a shaded blue area (53.2 inches), 2016–2017 daily precipitation is the wettest at 94.7 inches, 1982–1983 is the 2nd wettest at 88.5 inches, 2024–2025 daily precipitation is at 56.6 inches, the current water year (2025–2026) is at 50.5 inches (97% of average for this date), 2023–2024 daily precipitation is at 48.2 inches, 2020–2021 (3rd driest) is at 24.0 inches, 1923–1924 (driest) is at 17.1 inches, and 1976–1977 (2nd driest) is at 19.0 inches.

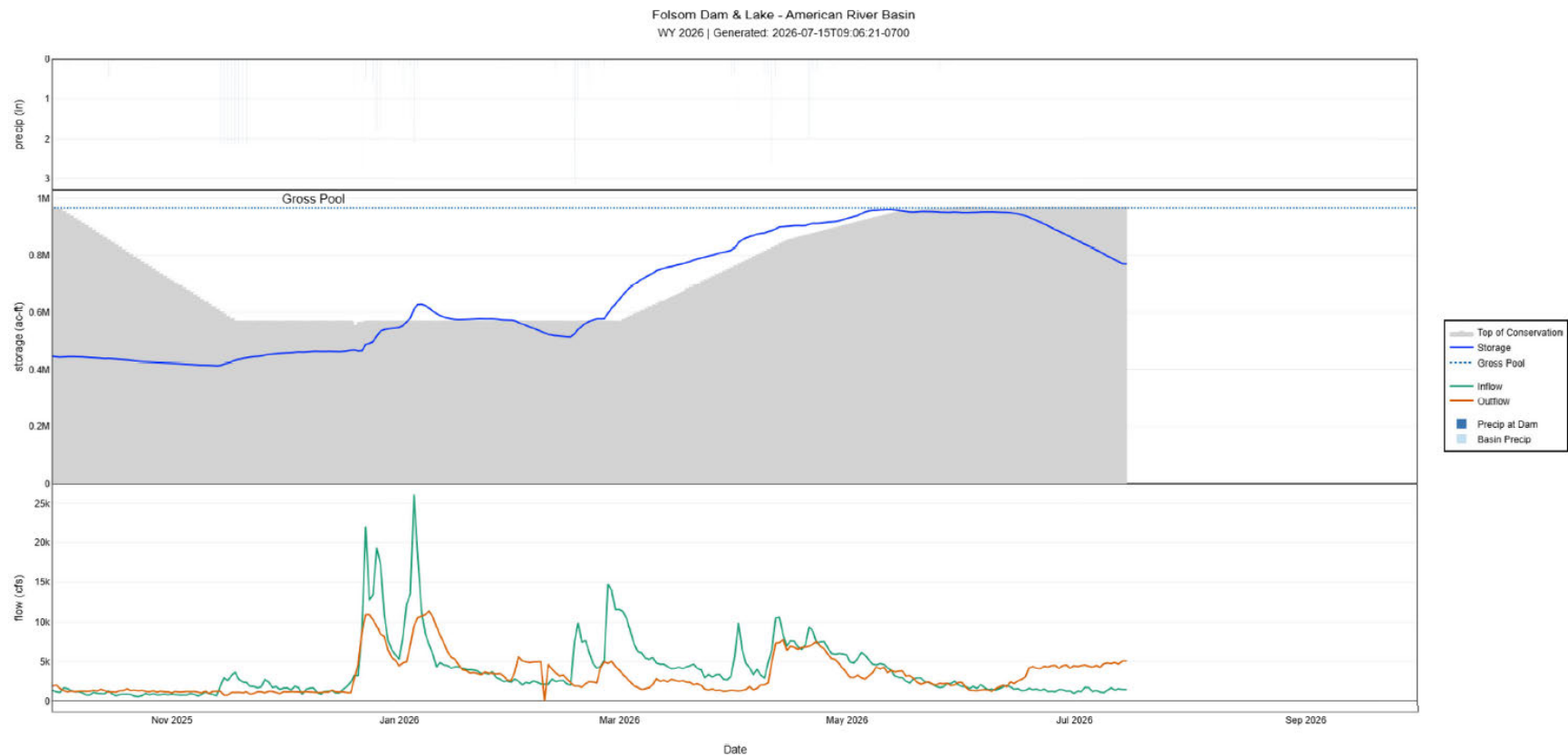


Figure 9. Folsom Dam and Lake Flow, Storage, and Precipitation Totals

Figure 9 shows precipitation, storage, and flow data for Folsom Dam and Lake on the American River Basin for Water Year 2026. Storage (blue line) begins near 450,000 acre-feet, fluctuates through winter, then climbs steadily from March through May to reach near gross pool capacity by mid-May, remaining there through June. Inflow (teal) spikes above outflow (orange) during high-flow events, peaking above 25,000 cfs in early January and near 15,000 cfs in early March.

Bureau of Reclamation
Historical Archive and Report Database

Table 8. June 2026 | Folsom Lake Daily Operations | Run Date: 07/10/2026

Day	Elev	Storage (1000 Acre- Feet) in Lake	Storage (1000 Acre- Feet) Change	Computed * Inflow C.F.S.	Release - C.F.S. River Power	Release - C.F.S. River Spill	Release - C.F.S. River Outlet	Pumping Plant	Evap. - C.F.S.	Evap. - Inches	Precip Inches
N/A	N/A	949.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	463.38	947.9	-1.2	1,846	2,156	0	0	189	113	0.31	0.00
2	463.37	947.8	-0.1	1,811	1,572	0	0	181	113	0.31	0.00
3	463.39	948.0	0.2	1,595	1,182	0	0	185	117	0.32	0.00
4	463.46	948.8	0.8	1,853	1,155	0	0	191	117	0.32	0.00
5	463.49	949.1	0.3	1,603	1,115	0	0	201	120	0.33	0.00
6	463.59	950.2	1.1	2,074	1,188	0	0	209	121	0.33	0.00
7	463.62	950.5	0.3	1,717	1,248	0	0	200	102	0.28	0.00
8	463.61	950.4	-0.1	1,447	1,203	0	0	200	99	0.27	0.00
9	463.64	950.7	0.3	1,524	1,064	0	0	187	106	0.29	0.00
10	463.58	950.1	-0.7	1,356	1,368	0	0	205	117	0.32	0.00
11	463.52	949.4	-0.7	1,578	1,591	0	0	204	117	0.32	0.00
12	463.45	948.6	-0.8	1,783	1,840	0	0	198	135	0.37	0.00
13	463.46	948.8	0.1	1,996	1,595	0	0	206	139	0.38	0.00
14	463.32	947.2	-1.5	1,778	2,204	0	0	207	146	0.40	0.00
15	463.17	945.6	-1.7	1,506	2,001	0	0	215	124	0.34	0.00

Day	Elev	Storage (1000 Acre- Feet) in Lake	Storage (1000 Acre- Feet) Change	Computed * Inflow C.F.S.	Release - C.F.S. River Power	Release - C.F.S. River Spill	Release - C.F.S. River Outlet	Pumping Plant	Evap. - C.F.S.	Evap. - Inches	Precip Inches
16	462.97	943.3	-2.2	1,566	2,345	0	0	216	117	0.32	0.00
17	462.36	940.3	-3.1	1,316	2,517	0	0	232	116	0.32	0.00
18	463.59	936.7	-3.6	1,349	2,824	0	0	231	120	0.33	0.00
19	461.87	931.3	-5.4	1,620	4,010	0	0	197	120	0.33	0.00
20	461.32	925.3	-6.0	1,438	3,689	449	0	208	119	0.33	0.00
21	460.82	919.8	-5.4	1,535	3,940	0	0	222	119	0.33	0.00
22	460.29	914.1	-5.8	1,325	3,891	0	0	216	119	0.33	0.00
23	459.74	908.1	-6.0	1,520	4,172	0	0	233	118	0.33	0.00
24	459.15	901.7	-6.4	1,199	4,062	0	0	232	118	0.33	0.00
25	458.53	895.1	-6.7	1,235	4,264	0	0	215	118	0.33	0.00
26	457.89	888.2	-6.9	1,182	4,301	0	0	228	117	0.33	0.00
27	457.37	882.7	-5.6	1,444	3,269	625	0	235	117	0.33	0.00
28	456.78	876.4	-6.3	1,432	3,422	813	0	253	116	0.33	0.00
29	456.14	869.6	-6.8	1,255	4,315	0	0	254	116	0.33	0.00
30	455.58	863.6	-5.9	1,285	3,922	0	0	233	119	0.34	0.00
Totals	N/A	N/A	-85.8	46,168	77,425	1,887	0	6,383	3,555	9.83	0.00
Acre- Feet	N/A	N/A	-85,800	91,574	153,572	3,743	0	12,661	7,051	N/A	N/A

* Computed inflow is the sum of change in storage, releases, pumping, and evaporation

Summary: Release (acre-feet)

Power	152,572
Spill	3,743
Outlet	0
Pumping Plant	12,661
Total Releases	169,976

Summary: Precipitation (Month/Inches)

This month	0.00
October 1, 2025 to date	38.90

Bureau of Reclamation
Historical Archive and Report Database

Table 9. July 2026 | Folsom Lake Daily Operations | Run Date: 07/15/2026

Day	Elev	Storage (1000 Acre- Feet) in Lake	Storage (1000 Acre- Feet) Change	Computed * Inflow C.F.S.	Release - C.F.S. River Power	Release - C.F.S. River Spill	Release - C.F.S. River Outlet	Pumping Plant	Evap. - C.F.S.	Evap. - Inches	Precip Inches
N/A	N/A	863.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	454.90	856.4	-7.2	968	4,241	0	0	229	119	0.34	0.00
2	454.29	850.0	-6.4	1,250	4,137	0	0	239	108	0.31	0.00
3	453.65	843.3	-6.7	1,209	4,257	0	0	236	97	0.28	0.00
4	453.09	837.5	-5.9	1,729	4,306	0	0	253	121	0.35	0.00
5	452.55	831.9	-5.6	1,702	4,156	0	0	254	124	0.36	0.00
6	451.94	825.5	-6.3	1,215	4,050	0	0	242	117	0.34	0.00
7	451.31	819.0	-6.5	1,341	4,297	0	0	217	109	0.32	0.00
8	450.69	812.6	-6.4	1,139	4,020	0	0	237	102	0.30	0.00
9	449.96	805.1	-7.5	1,065	4,483	0	0	248	112	0.33	0.00
10	449.26	798.0	-7.1	1,358	4,586	0	0	242	132	0.39	0.00
11	448.64	791.7	-6.3	1,696	4,495	0	0	266	114	0.34	0.00
12	447.94	784.6	-7.1	1,384	4,641	0	0	241	80	0.24	0.00
13	447.31	778.2	-6.3	1,550	4,446	0	0	244	60	0.18	0.00
14	446.57	770.8	-7.4	1,462	4,845	0	0	246	116	0.35	0.00
Totals	N/A	N/A	-92.7	19,068	60,960	0	0	3,394	1,511	4.43	0.00

Day	Elev	Storage (1000 Acre- Feet) in Lake	Storage (1000 Acre- Feet) Change	Computed * Inflow C.F.S.	Release - C.F.S. River Power	Release - C.F.S. River Spill	Release - C.F.S. River Outlet	Pumping Plant	Evap. - C.F.S.	Evap. - Inches	Precip Inches
Acre- Feet	N/A	N/A	-92,700	37,821	120,914	0	0	6,732	2,997	N/A	N/A

* Computed inflow is the sum of change in storage, releases, pumping, and evaporation

Summary: Release (acre-feet)

Power	120,914
Spill	0
Outlet	0
Pumping Plant	6,732
Total Releases	127,646

Summary: Precipitation (Month/Inches)

This month	0.00
October 1, 2025 to date	38.90

Bureau of Reclamation
Historical Archive and Report Database

Table 10. June 2026 | Lake Natoma Daily Operations | Run Date: 07/10/2026

Day	Elev	Storage (Acre- Feet) in Lake	Storage (Acre-Feet) Change	Computed * Inflow C.F.S.	Release - C.F.S. Folsom South	Release - C.F.S. Power	Release - C.F.S. Spill	Release - C.F.S. Hatchery	Evap. - C.F.S. (1)
N/A	N/A	7,829	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	123.58	8,064	235	2,129	9	1,958	0	40	4
2	123.66	8,101	37	1,568	20	1,485	0	40	4
3	123.63	8,087	-14	1,163	23	1,103	0	40	4
4	123.61	8,078	-9	1,148	31	1,078	0	40	4
5	123.43	7,993	-85	1,116	35	1,080	0	40	4
6	123.50	8,026	33	1,170	35	1,074	0	40	4
7	123.76	8,148	122	1,217	35	1,076	0	40	4
8	123.85	8,191	43	1,171	29	1,077	0	40	3
9	123.49	8,021	-170	1,042	24	1,061	0	39	4
10	124.15	8,336	315	1,303	30	1,070	0	40	4
11	124.55	8,536	200	1,550	45	1,360	0	40	4
12	124.35	8,436	-100	1,849	50	1,804	0	40	5
13	122.96	7,773	-663	1,707	50	1,946	0	40	5
14	123.58	8,064	291	2,184	50	1,942	0	40	5
15	123.51	8,031	-33	2,016	50	1,939	0	40	4
16	123.40	7,979	-52	2,311	50	2,243	0	40	4

Day	Elev	Storage (Acre- Feet) in Lake	Storage (Acre-Feet) Change	Computed * Inflow C.F.S.	Release - C.F.S. Folsom South	Release - C.F.S. Power	Release - C.F.S. Spill	Release - C.F.S. Hatchery	Evap. - C.F.S. (1)
17	123.39	7,974	-5	2,449	50	2,358	0	40	4
18	123.15	7,862	-112	2,767	50	2,729	0	40	4
19	123.83	8,181	319	3,823	50	3,568	0	40	4
20	124.08	8,301	120	3,983	45	2,205	1,629	40	4
21	123.59	8,068	-233	3,854	36	3,355	536	40	4
22	123.00	7,791	-277	3,818	20	3,894	0	40	4
23	123.30	7,932	141	4,049	26	3,908	0	40	4
24	123.22	7,894	-38	3,975	39	3,911	0	40	4
25	123.77	8,153	259	4,137	45	3,917	0	40	4
26	124.28	8,401	248	4,159	54	3,936	0	40	4
27	123.57	8,059	-342	3,772	60	2,658	1,182	40	4
28	123.86	8,195	136	4,090	60	2,623	1,294	40	4
29	124.49	8,506	311	4,134	55	2,830	1,048	40	4
30	123.57	8,059	-447	3,872	50	4,003	0	40	4
Totals	N/A	N/A	230	77,526	1,206	69,191	5,689	1,199	122
Acre-Feet	N/A	N/A	230	153,773	2,392	137,240	11,284	2,378	242

* Computed inflow is sum of change in storage, releases, and evaporation.

(1) Evaporation records taken from Folsom Pan.

Summary: Release (acre-feet)

Power	137,240
Spill	11,284
Folsom South Canal	2,392
Hatchery	2,378
Total Releases	153,294

Bureau of Reclamation
Historical Archive and Report Database

Table 11. July 2026 | Lake Natoma Daily Operations | Run Date: 07/15/2026

Day	Elev	Storage (Acre-Feet) in Lake	Storage (Acre-Feet) Change	Computed * Inflow C.F.S.	Release - C.F.S. Folsom South	Release - C.F.S. Power	Release - C.F.S. Spill	Release - C.F.S. Hatchery	Evap. - C.F.S. (1)
N/A	N/A	8,059	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	123.80	8,167	108	4,149	50	4,001	0	40	4
2	123.68	8,111	-56	4,066	50	4,000	0	40	4
3	124.05	8,286	175	4,155	50	3,973	0	40	4
4	124.63	8,576	290	4,189	40	3,958	0	40	5
5	124.41	8,466	-110	4,075	40	4,045	0	40	5
6	123.80	8,167	-299	3,987	40	4,054	0	40	4
7	124.40	8,461	294	4,186	40	3,954	0	40	4
8	124.09	8,306	-155	3,955	40	3,949	0	40	4
9	124.17	8,346	40	4,388	40	4,284	0	40	4
10	124.03	8,276	-70	4,504	40	4,454	0	40	5
11	123.61	8,078	-198	4,450	50	4,456	0	40	4
12	123.73	8,134	56	4,577	50	4,456	0	40	3
13	123.19	7,880	-254	4,415	50	4,451	0	40	2
14	124.05	8,286	406	4,747	50	4,447	0	40	5
Totals	N/A	N/A	227	59,843	630	58,482	0	560	57
Acre-Feet	N/A	N/A	227	118,699	1,250	115,999	0	1,111	113

* Computed inflow is sum of change in storage, releases, and evaporation.
(1) Evaporation records taken from Folsom Pan.

Summary: Release (acre-feet)

Power	115,999
Spill	0
Folsom South Canal	1,250
Hatchery	1,111
Total Releases	118,360

Table 12. Isobath 06/01–06/16 (Mean Daily Temperature, Release, Storage, Unit Shutter Position/Load Percentage

MDT = Mean Daily Temperature (°F)

USP/LP = Unit Shutter Position/Load Percentage

Date	MDT, Water NFA	MDT, Water ARP	MDT, Water AFD ¹	MDT, Water AFO	MDT, Water AWP	MDT Water AWB	MDT, Air CSU	Release (CFS) Nimbus	Storage (TAF) Folsom	USP/LP Unit 1	USP/ LP Unit 2	USP/LP Unit 3
Jun	67.5	70.6	56.7	59.3	61.9	63.8	73.2	2536	N/A	N/A	N/A	N/A
07/01	67.4	72.1	60.3	61.0	62.3	63.3	70.2	4041	856	A48	A35	A16
07/02	67.6	72.1	60.5	61.1	62.3	63.4	69.7	4040	850	A49	A35	A16
07/03	68.1	71.5	60.7	61.4	62.7	63.8	71.3	4013	843	A47	A20	A33
07/04	67.26	71.2	60.8	61.5	63	64.2	74.5	3998	837	A48	A16	A36
07/05	65.7	70.3	61.0	61.9	63.0	64.1	74.1	4085	832	A45	A39	A16
07/06	66.1	70.3	61.4	62.1	63.3	64.3	70.4	4094	826	A47	A36	A17
07/07	65.9	70.6	61.5	62.1	63.4	64.4	68.6	3994	819	A44	A39	A17
07/08	66.0	71.7	62.2	62.3	63.6	64.6	68.2	3989	813	A49	A35	A17
07/09	67.14	72.7	62.5	62.8	64.0	65.1	74.3	4324	805	A52	A34	A15
07/10	68.0	72.2	62.5	63.1	64.3	65.4	75.8	4494	798	A43	A29	A28
07/11	66.24	71.0	63.1	63.3	64.4	65.4	73.1	4496	792	A50	A33	A17
07/12	65.3	68.8	63.1	63.4	64.1	64.8	76.0	4496	785	A42	A16	A42
07/13	63.2	68.0	63.0	63.0	63.8	64.5	82.0	4491	778	A49	A30	T21
07/14	63.7	70.5	62.2	63.2	64.9	66.0	84.2	4487	771	A42	A42	T17
Jul	66.3	70.9	61.8	62.3	63.5	64.5	73.7	4217	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	Total AF	117107	N/A	N/A	N/A	N/A

Legend:

? = 1-9 hours of data missing

! = 10 or more hours of data missing

= Station out of service

X = Exceedances

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 based on hourly flow values from generation

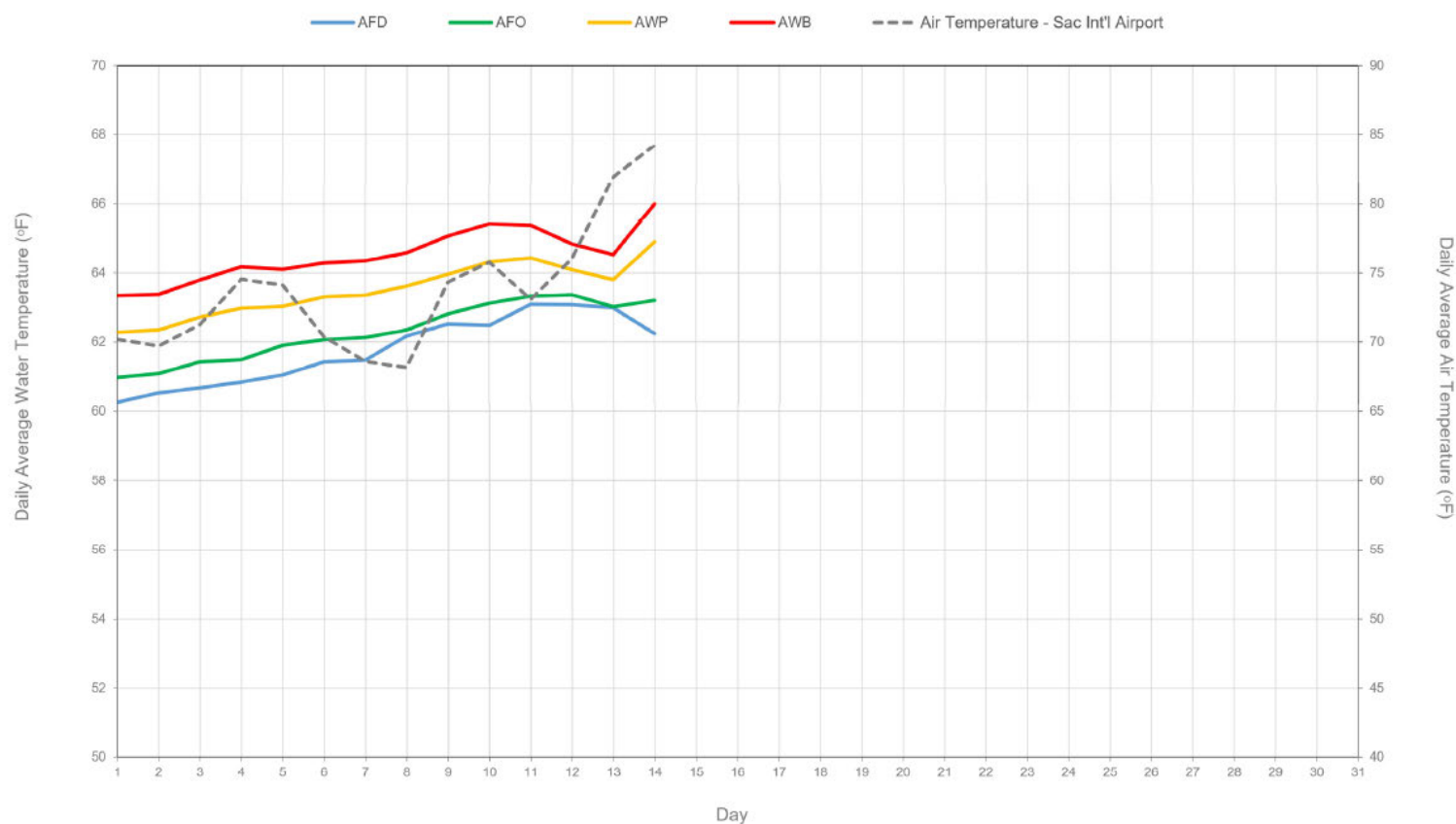


Figure 10. American River Daily Average Water and Air Temperatures

Figure 10 displays daily average water temperature at four American River gages and air temperature at Sacramento International Airport for July 2026, with data through day 14. AWB (red) tracks highest among water temperature sensors ranging approximately 63–66°F, followed by AWP, AFO, and AFD in descending order, with AFD (blue) ranging approximately 60–63°F. Air temperature (dashed gray, right axis) fluctuates more sharply than water temperatures, dipping near 69°F around days 6–7 before rising to approximately 84°F by day 14.

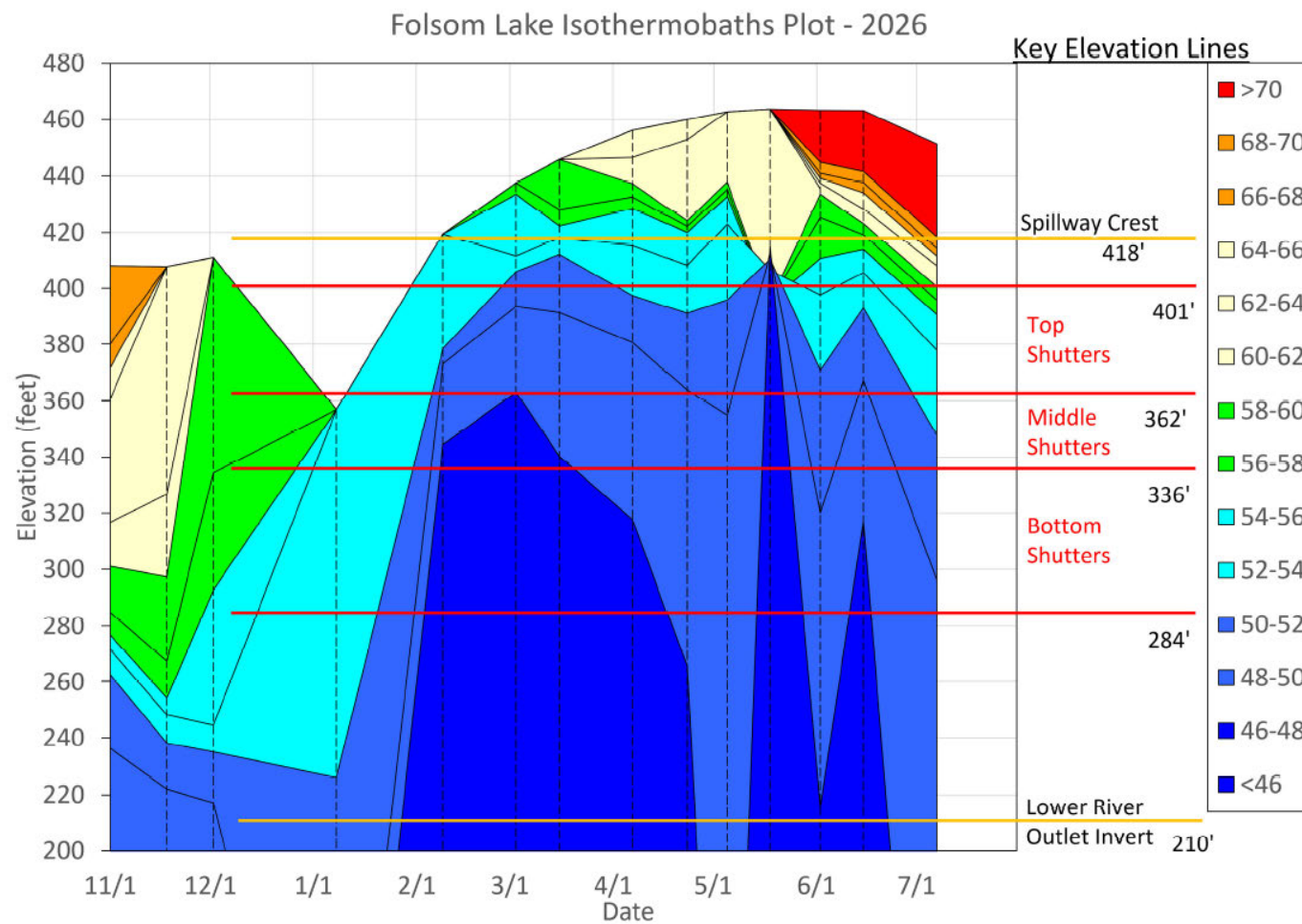


Figure 11. Isobath Plot 11/01 – 05/16

Figure 11 displays Folsom Lake water temperature by elevation from November 2025 through July 2026, with key elevation lines marked for Spillway Crest (418 ft), Top Shuttters (401 ft), Middle Shuttters (362 ft), Bottom Shuttters (336 ft), and Lower River Outlet Invert (210 ft). Cold water (below 52°F) dominates the lower reservoir throughout the period. Storage declines through December before rising sharply from January through spring, peaking near the Spillway Crest in mid-May before declining through June-July. Warmer temperature bands expand toward the surface as the season progresses, with surface temperatures exceeding 70°F by late May and persisting through July as storage drops.

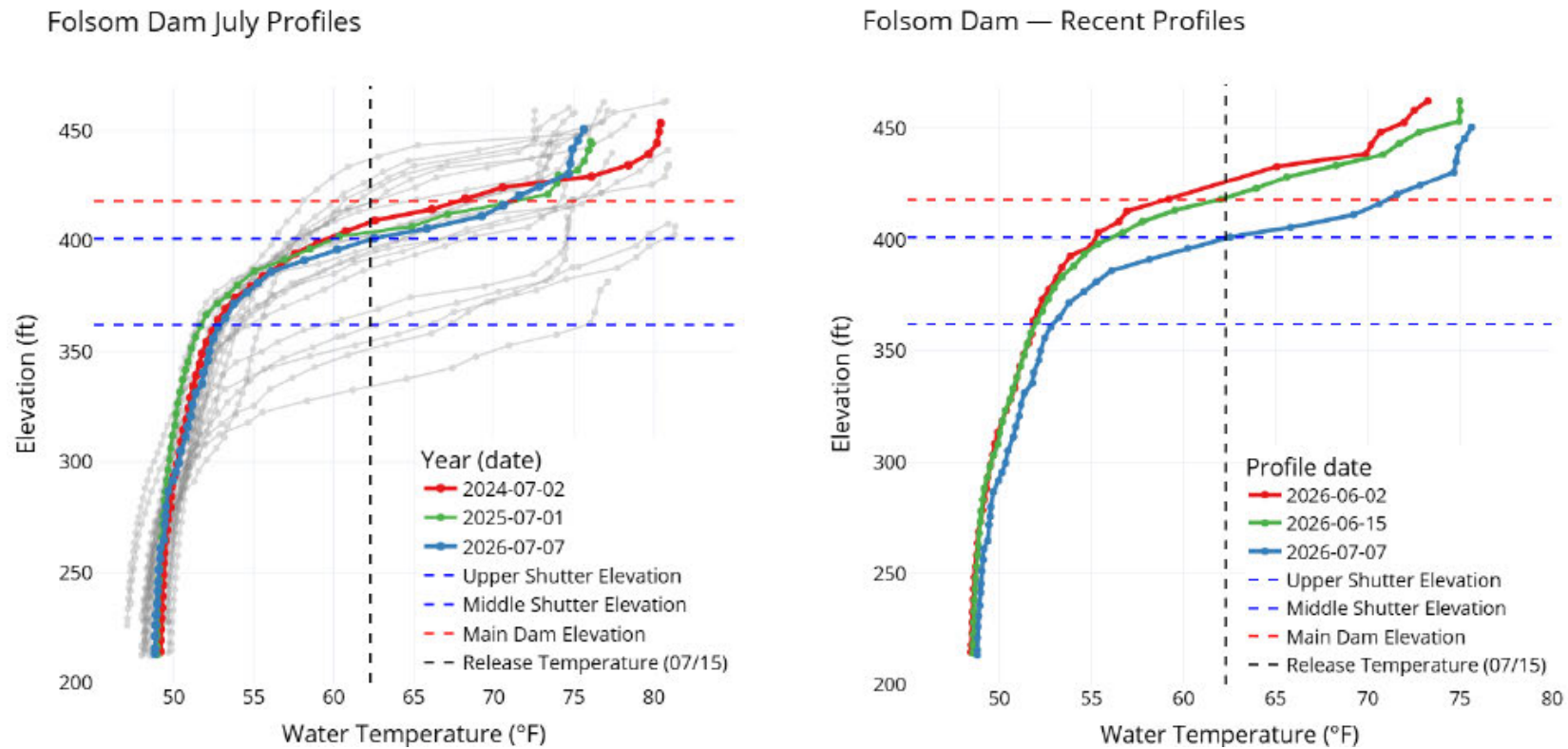


Figure 12. Folsom Dam Water Temperature Profiles, Mid-June Comparison and Recent Profiles.

Figure 12 shows two side-by-side water temperature profile charts for Folsom Dam. The left panel compares July profiles across multiple historical years (gray lines) with 2024-07-02 (red), 2025-07-01 (green), and 2026-07-07 (blue) highlighted, showing water temperature increasing with elevation from approximately 48°F near the bottom to 80–82°F near the surface, with 2026 tracking cooler than 2024 and 2025 at upper elevations while all three recent years show temperatures near 63°F at the release point. The right panel shows three recent 2026 profiles — June 2 (red), June 15 (green), and July 7 (blue) — with reference lines marking Upper Shutter Elevation (dashed blue, approximately 365 ft), Middle Shutter Elevation (dashed blue, approximately 375 ft), Main Dam Elevation (dashed red, approximately 410 ft), and Release Temperature (dashed black, approximately 63°F), showing surface temperatures warming progressively from approximately 68°F on June 2 to approximately 75°F by July 7.

Table 13. American River Baseflow Table – WY 2026

Month	Index Used for Index-based MRR	Flood Mgmt (TAF) ¹	ARI or SRI	Index Based MRR (cfs)	RDPB-based MRR for fall-run Chinook salmon (applicable in Jan and Feb)	RDPB-based MRR for steelhead (applicable Feb to May)	Controlling MRR (cfs)	Actual Average Monthly Nimbus releases ² (cfs)
October	May ARI ³ (50% exceedance)	0	1,614	992	N/A	N/A	992	1,079
November	May ARI ³ (50% exceedance)	0	1,614	992	N/A	N/A	992	1,071
December	May ARI ³ (50% exceedance)	159	1,614	992	N/A	N/A	992	3,638
January	Jan SRI (90% exceedance)	445	13.4 (SRI)	992	992	N/A	992	5,743
February	Feb ARI (90% exceedance)	515	915	673	694	635	694	3,832
March	March ARI (90% exceedance)	572	1,265	1,063	NA	635	1,063	1,959
April	April ARI (90% exceedance)	796	1,321	986	NA	635	986	4,698
May	May ARI (90% exceedance)	N/A	1,488	1,082	NA	635	1,082	2,810
June	May ARI ³ (90% exceedance)	N/A	1,488	1,082	N/A	N/A	1,082	2,356
July	May ARI ³ (90% exceedance)	N/A	1,488	1,595	N/A	N/A	1,595	4,217 ⁴
August	May ARI ³ (90% exceedance)	N/A	1,488	1,595	N/A	N/A	1,595	N/A
September	May ARI ³ (90% exceedance)	N/A	1,488	1,595	N/A	N/A	1,595	N/A

Table 14. American River Baseflow Table – WY 2027

Month	Index Used for Index-based MRR	Flood Mgmt (TAF) ¹	ARI or SRI	Index Based MRR (cfs)	RDPB-based MRR for fall-run Chinook salmon (applicable in Jan and Feb)	RDPB-based MRR for steelhead (applicable Feb to May)	Controlling MRR (cfs)	Actual Average Monthly Nimbus releases ² (cfs)
October	May ARI ³ (90% exceedance)	N/A	1,488	795	N/A	N/A	795	N/A
November	May ARI ³ (90% exceedance)	N/A	1,488	795	N/A	N/A	795	N/A
December	May ARI ³ (90% exceedance)	N/A	1,488	795	N/A	N/A	795	N/A

1 Cumulative flood management release

2 Average of daily releases over the month from sum of Power, Spill, and Hatchery flows [DailyOperationsNAT](#)

3 B120 Forecasts are usually provided January through May. The May ARI would also be used for June-September of the current water year and October through December of the next water year unless there is an update to the ARI after May.

4 Accumulated spill/release as of 7/15/26

90% exceedance starting January 2025 (2024 ROD)

MRR=Minimum Release Requirement

RDPA=Redd Dewatering Protective Adjustment

ARI=American River Index

SRI=Sacramento River Index

N/A = Not Applicable

Draft July 2026 Outlook

50% Inflow/Runoff Exceedance Hydrology

Table 15. Federal End of the Month Storage/Elevation (TAF/Feet)

Facility	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Folsom Storage	864	595	425	300	289	290	311	402	501	690	836	900	873
Folsom Elevation	N/A	428	407	387	385	385	389	403	417	438	453	459	456

Table 17. Monthly River Release (TAF/cfs)

Facility	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Cumulative (TAF)	N/A	332	241	178	92	92	92	61	133	123	280	400	249
Average Flow (cfs)	N/A	5402	3914	3000	1500	1552	1500	1000	2400	2000	4700	6500	4183

90% Inflow/Runoff Exceedance Hydrology

Table 19. Federal End of the Month Storage/Elevation (TAF/Feet)

Facility	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Folsom (TAF)	864	575	363	318	274	268	270	283	311	434	542	536	409
Folsom Elevation	N/A	426	398	390	382	381	382	384	389	408	422	421	404

Table 21. Monthly River Release (TAF/cfs)

Facility	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
American (TAF)	N/A	348	277	95	85	50	51	49	75	49	99	181	199
American (cfs)	N/A	5658	4500	1600	1386	835	834	800	1353	805	1657	2950	3349

WY 2026 July ARG Temperature Modeling Update

This updated modeling includes a draft July 90% operations outlook and an updated Folsom Lake Profile from July 7th. Model runs for 2001-2020 Meteorological conditions using ATSP 41 were conducted and are summarized on the next page with 2011, 2014, 2017, and 2020 scenarios highlighted. Detailed model results for years 2011, 2014, 2017, and 2020 are also included. Alternative runs may be supplied upon request in future updates. Model output used to generate images is available upon request.

Future modeling updates will be provided to ARG after any future profiles or operations outlook updates.

The ATSP 41 Monthly Targets are included in Table 1.

Table 22. ATSP 41 Monthly Temperature Targets

Month	Jun	Jul	Aug	Sep	Oct	Nov
Target	68°F	68°F	68°F	68°F	68°F	59°F

ATSP 41 – Summary Plots

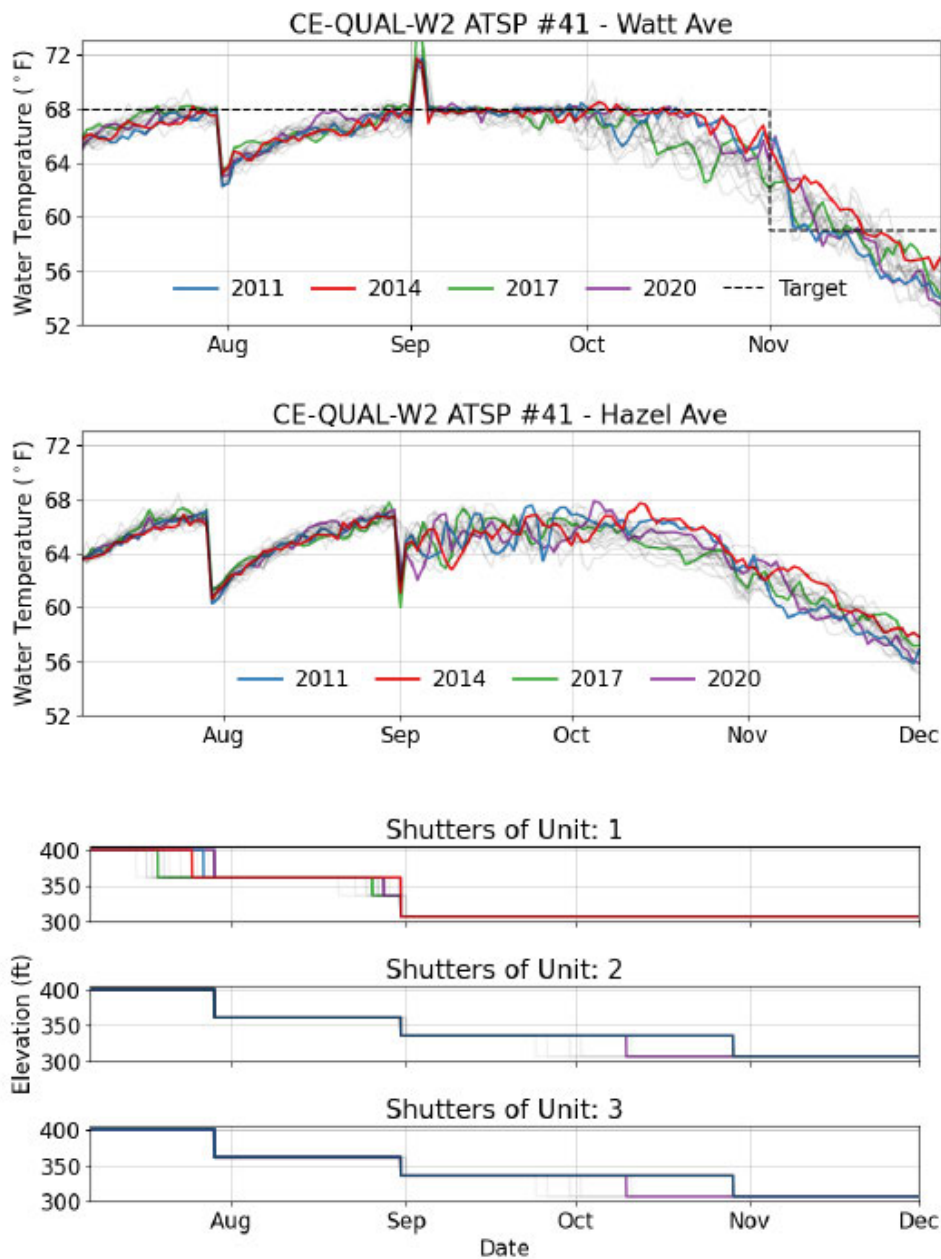


Figure 13. CE-QUAL-W2 ATSP #41 — Watt Avenue and Hazel Avenue Temperatures and Shutter Elevations by Simulation Year

Figure 13 presents five panels for CE-QUAL-W2 ATSP #41, showing modeled Watt Avenue temperatures, Hazel Avenue temperatures, and shutter elevations for Units 1–3 for simulation years 2011, 2014, 2017, and 2020. Watt Avenue temperatures rise to near the 68°F target by late July, hold near that level through October with a brief spike above 72°F in early September, then decline steeply through November to approximately 56–60°F. Hazel Avenue temperatures track near 64–68°F through summer and fall before declining to approximately 56–58°F by December, with greater year-to-year variability in October. Shutter elevations for all three units step down progressively from 400 ft in summer to near 305 ft by fall, reflecting cold water pool management as storage declines.

ATSP 41 – 2011 Meteorology

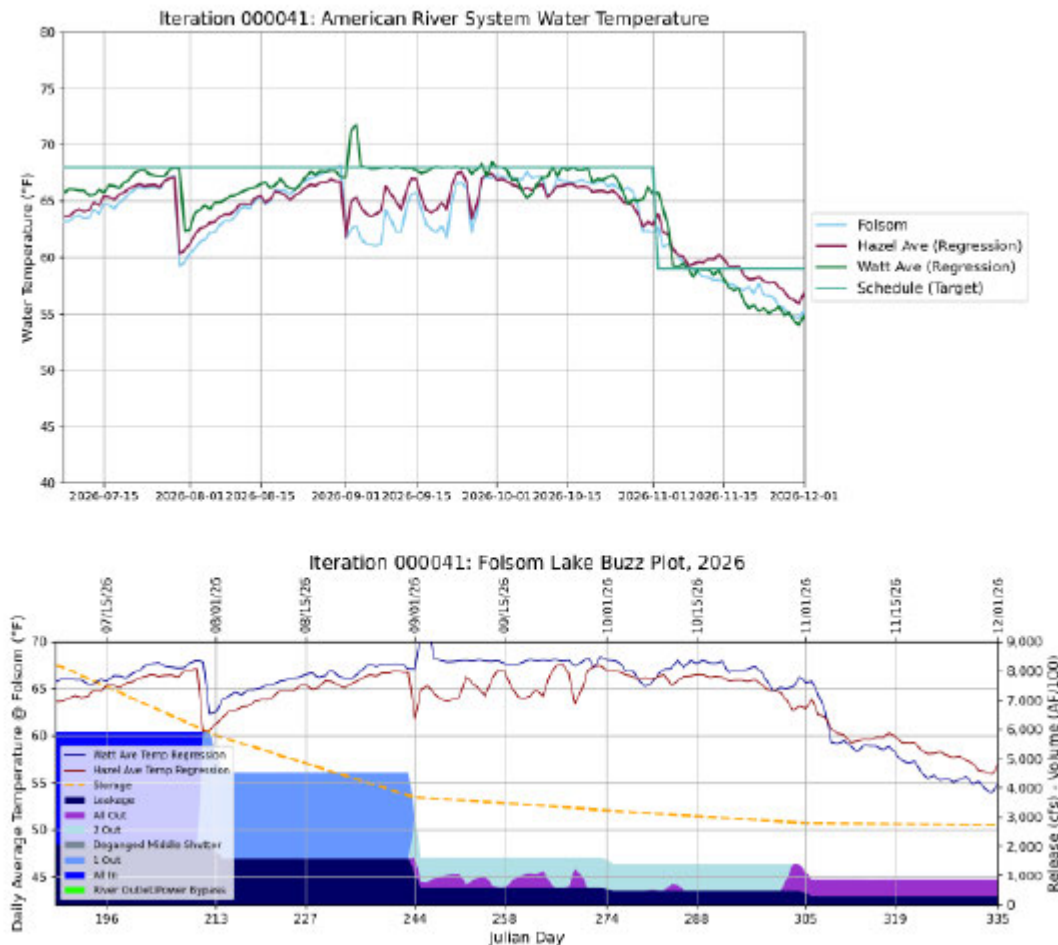


Figure 14. ATSP 41 Default Operations — 2026

Figure 14 depicts two panels summarizing CE-QUAL-W2 Iteration 000041 results for 2026. The upper panel shows modeled water temperatures at Folsom, Hazel Avenue, and Watt Avenue against schedule targets, with temperatures warming through summer, notable oscillations at Watt Avenue in August–October, a brief spike near 71°F in early September, and steep declines through November–December. The lower panel combines temperature regressions with reservoir storage and shutter configuration, showing storage declining steadily through the period as shutter operations transition from "All In" to "River Outlet/Power Bypass" by late fall.

ATSP 41 – 2014 Meteorology

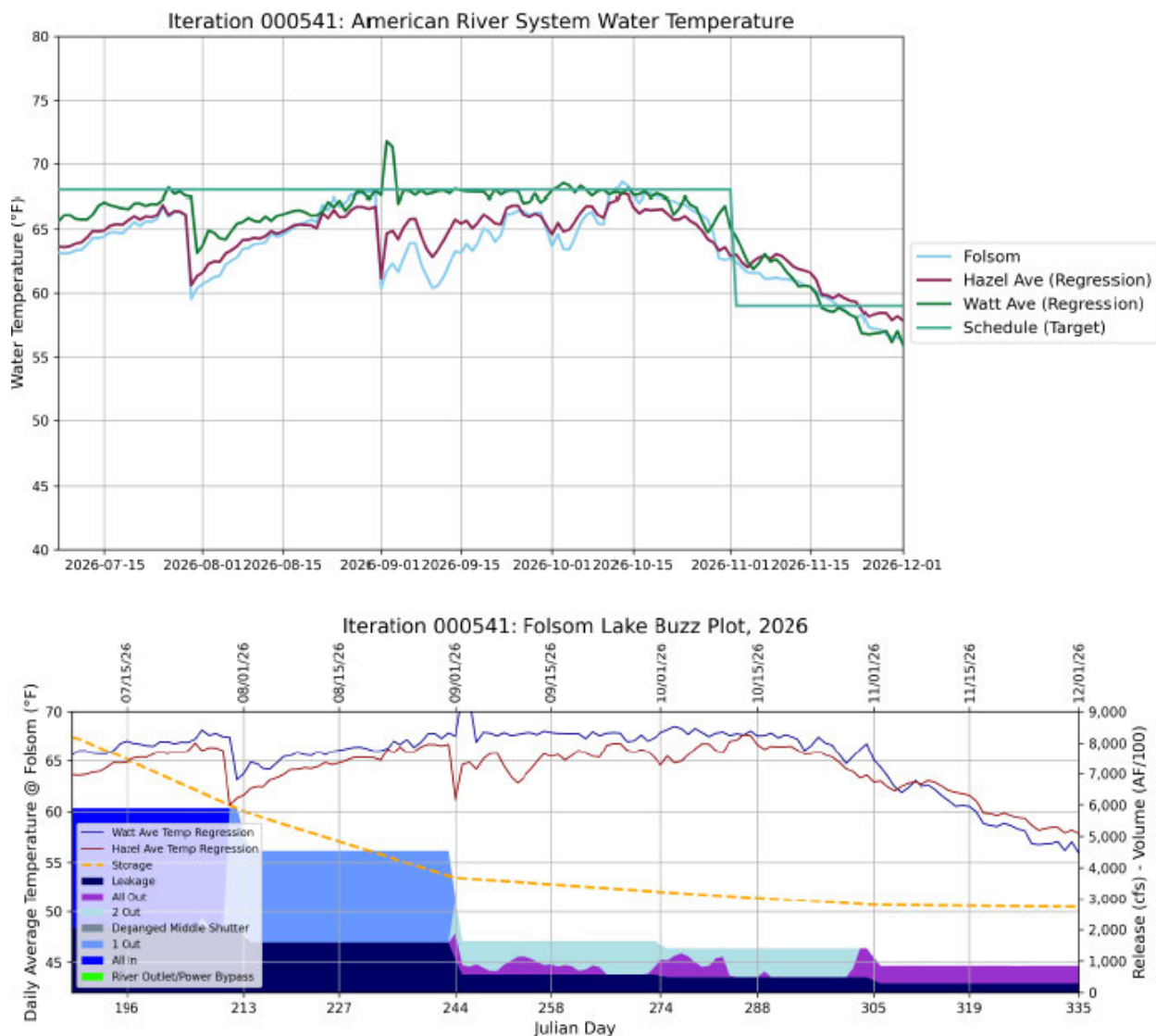


Figure 15. ATSP 41 Alternative Operations — Iteration 000541, 2026

Figure 15 depicts two panels summarizing CE-QUAL-W2 Iteration 000541 results for 2026. The upper panel shows modeled water temperatures at Folsom, Hazel Avenue, and Watt Avenue against schedule targets, with temperatures warming through summer, a brief spike near 71°F at Watt Avenue in early September, and steep declines through November–December. The lower panel combines temperature regressions with reservoir storage and shutter configuration, showing storage declining steadily through the period as shutter operations transition from "All In" to "River Outlet/Power Bypass" by late fall.

ATSP 41 – 2017 Meteorology

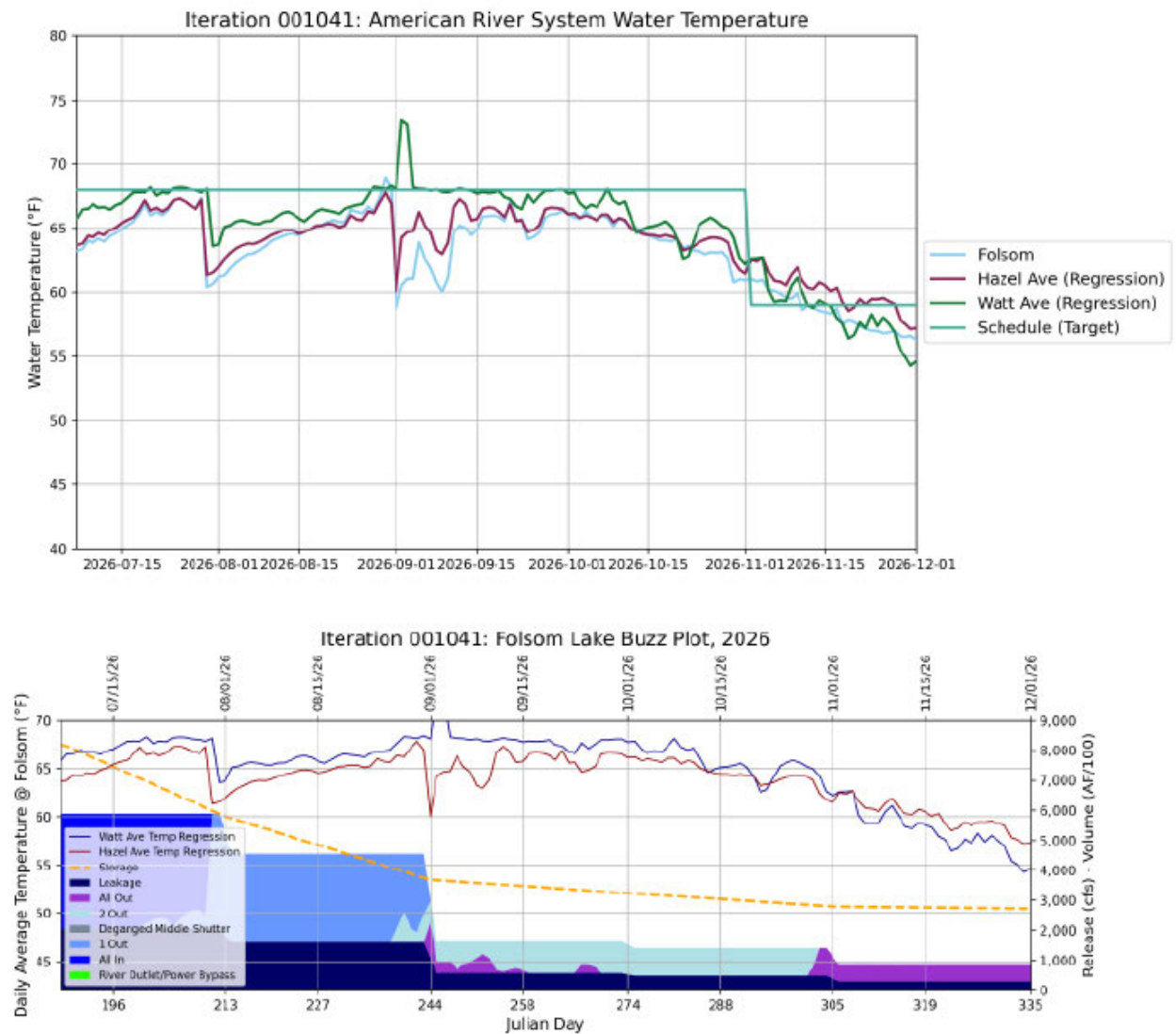


Figure 16. ATSP 41 Alternative Operations — Iteration 001041, 2026

Figure 16 depicts two panels summarizing CE-QUAL-W2 Iteration 001041 results for 2026. The upper panel shows modeled water temperatures at Folsom, Hazel Avenue, and Watt Avenue against schedule targets, with temperatures warming through summer, a brief spike near 73°F at Watt Avenue in early September, and steady declines through November–December. The lower panel combines temperature regressions with reservoir storage and shutter configuration, showing storage declining steadily through the period as shutter operations transition from "All In" to "River Outlet/Power Bypass" by late fall.

ATSP 41 – 2020 Meteorology

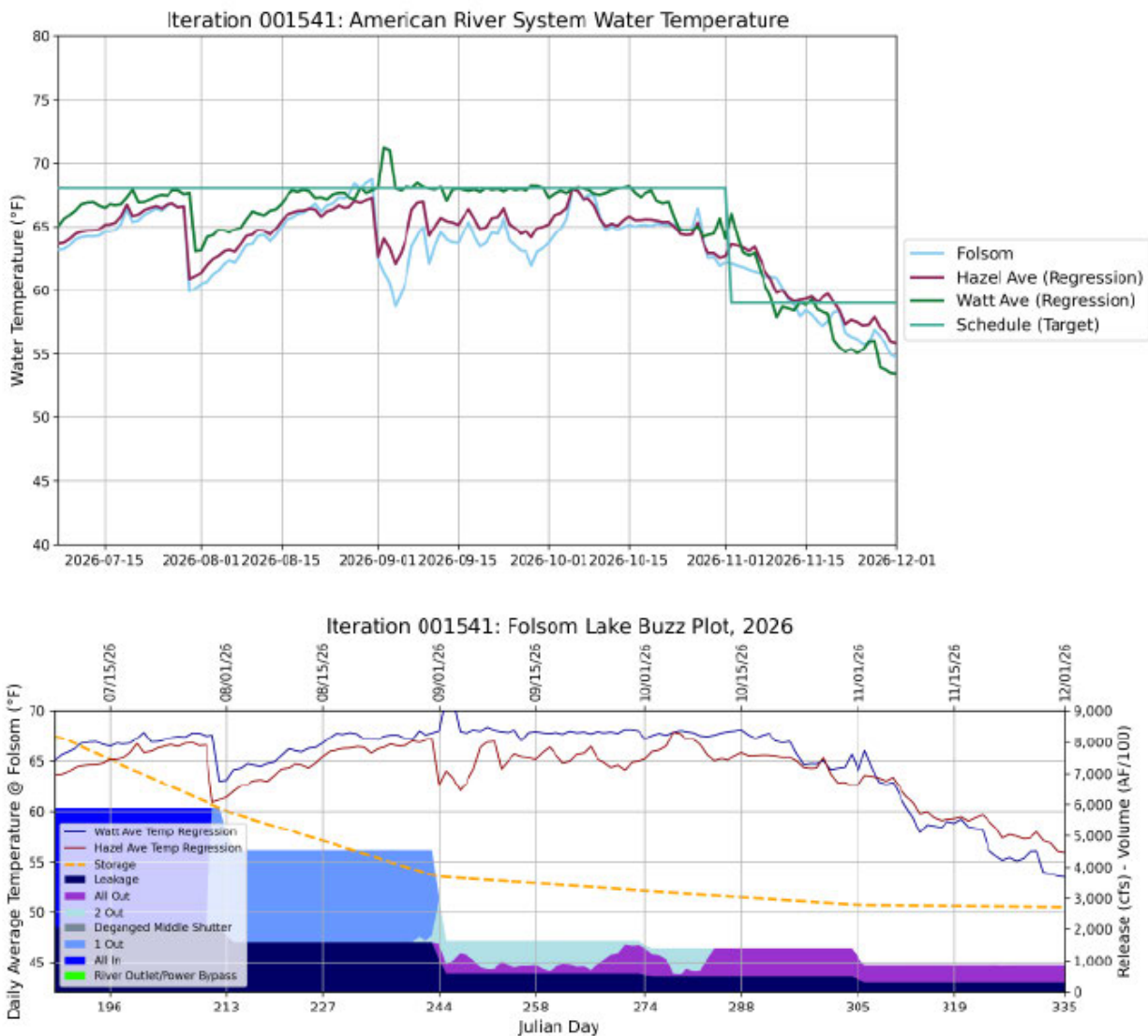


Figure 17. ATSP 41 Alternative Operations — Iteration 001541, 2026

Figure 17 depicts two panels summarizing CE-QUAL-W2 Iteration 001541 results for 2026. The upper panel shows modeled water temperatures at Folsom, Hazel Avenue, and Watt Avenue against schedule targets, with temperatures warming through summer, a brief spike near 71°F at Watt Avenue in early September, and declining through November–December. The lower panel combines temperature regressions with reservoir storage and shutter configuration, showing storage declining steadily through the period as shutter operations transition from "All In" to "River Outlet/Power Bypass" by late fall.



Lower American River Monitoring

Dissolved Oxygen Monitoring

Below is a summary of dissolved oxygen and temperature in the American River in relation to flow since the previous ARG meeting. The next logger download is scheduled for Aug 4.

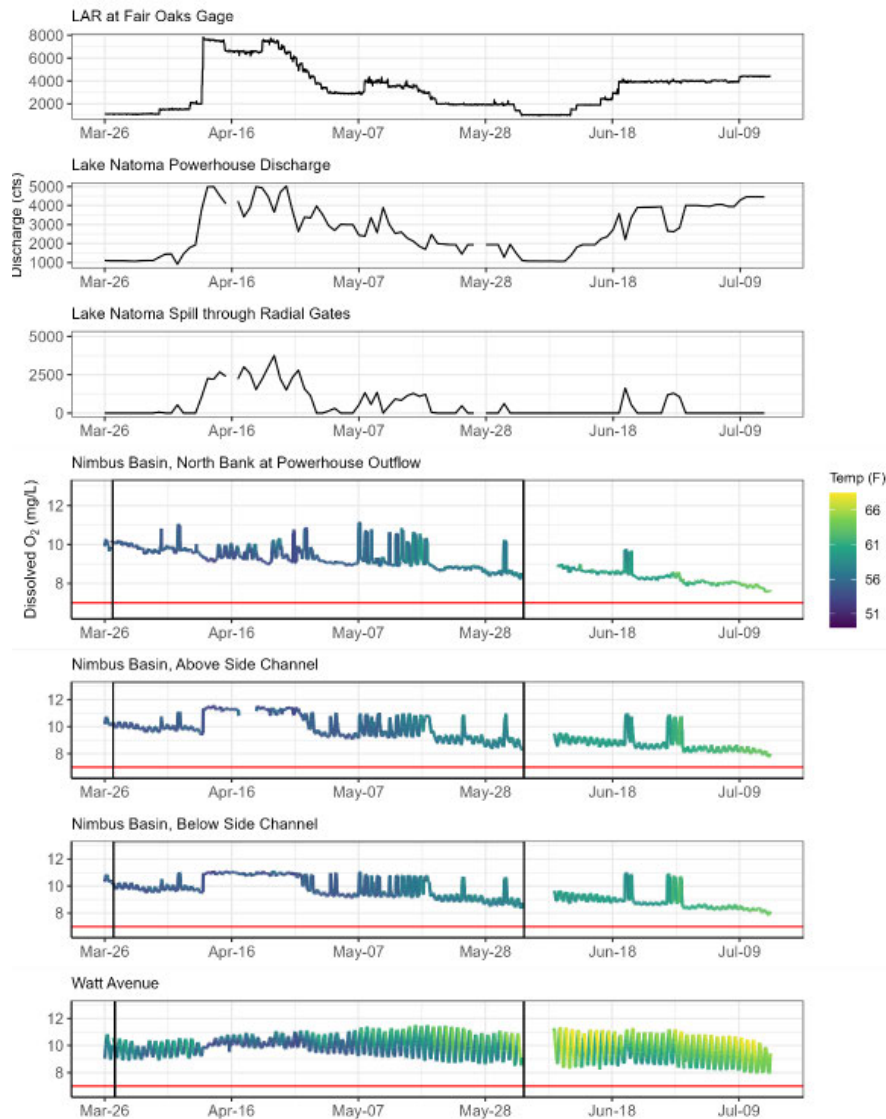


Figure 18. Discharge, temperature and dissolved oxygen dynamics at various locations in the Lower American River during the time when DO transects were conducted. Vertical lines in the dissolved oxygen plots denote the period where data was corrected following instrument issues.

Figure 18 presents seven panels displaying Lower American River flow and dissolved oxygen conditions from late March through mid-July 2026. The top three panels show discharge at the LAR Fair Oaks Gage, Lake Natoma Powerhouse, and Lake Natoma Radial Gate Spill; Fair Oaks flows rise sharply in mid-April to approximately 6,500 cfs before stabilizing near 4,000 cfs through July, while radial gate spill is intermittent and concentrated in April–May. The bottom four panels show dissolved oxygen (mg/L) color-coded by temperature at Nimbus Basin North Bank, Above Side Channel, Below Side Channel, and Watt Avenue. DO remains generally above the red threshold (~7 mg/L) through May before declining toward or below it at all Nimbus Basin locations from June onward as temperatures warm from approximately 51°F to 66°F. Watt Avenue shows the greatest diurnal DO variability throughout the period.



Recent LAR EDI submissions

Dissolved Oxygen monitoring (2022-2025)

Ogaz, M. and E. Bishop. 2026. Lower American River dissolved oxygen monitoring (2022 - 2025), Sacramento CA ver 2. Environmental Data Initiative.
<https://doi.org/10.6073/pasta/3b51de3b74342adda96f97fb81421ac9>

Snorkel surveys (2022-2025)

Sweeney, J. and E. Bishop. 2026. Lower American River restoration snorkel surveys at project and control reaches, Sacramento County 2022-2025 ver 5. Environmental Data Initiative. <https://doi.org/10.6073/pasta/b965986a7be337127dd7a60eb6a9f614>

Steelhead spawning surveys (2002-2026)

Sweeney, J. and J. Hannon. 2026. Lower American River steelhead spawning surveys (Chinook and lamprey data included), Sacramento County California, 2002 to 2026 ver 3. Environmental Data Initiative.
<https://doi.org/10.6073/pasta/bf2e5d969a88596e5d53cc0d56dee3ed>

Stranding surveys (2016-2026)

Sweeney, J. and J. Hannon. 2026. Lower American River steelhead and Chinook stranding surveys, Sacramento County California, 2016 to 2026 ver 4. Environmental Data Initiative. <https://doi.org/10.6073/pasta/ca339874b9bc605acd2f9afe83b7039e>