

Provisional Data Subject to Revision

JUVENILE SALMONID MONITORING

Presented by Emily Fisher, CDFW, 916-272-4113, emily.fisher@wildlife.ca.gov

- No new salmonids have been observed so far this month
- Staff were not able to safely access the Upper Sunrise side channel or the Nimbus Basin main channel

Month	Category	Nimbus Main Channel	Nimbus Side Channel	Upper Sunrise Main Channel	Upper Sunrise Side Channel	Lower Sunrise Main Channel	Lower Sunrise Side Channel**	Rossmoor Main Channel	Gristmill Main Channel	Riverbend Main Channel	Riverbend Side Channel	Watt Avenue Main Channel	Paradise Beach Main Channel
March	SH	1	*	7	NA	7	3	3	0	0	NA	1	0
March	CS	0	*	0	NA	8	76	8 (+1 UNID)	2	4	NA	0	0
April	SH	2	8	5	NA	3	33	0	0	0	NA	1	0
April	CS	1	160	2	NA	3	461	6	0	0	NA	0	0

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Month	Category	Nimbus Main Channel	Nimbus Side Channel	Upper Sunrise Main Channel	Upper Sunrise Side Channel	Lower Sunrise Main Channel	Lower Sunrise Side Channel**	Rossmoor Main Channel	Gristmill Main Channel	Riverbend Main Channel	Riverbend Side Channel	Watt Avenue Main Channel	Paradise Beach Main Channel
May	SH	1	2	***	***	0	0	0	1	0	NA	0	3
May	CS	1	25	***	***	1	0	0	0	0	NA	0	1
June	SH	0	0	0	0	0	0	1	0	0	0	0	0
June	CS	0	2	0	0	0	0	0	0	0	0	0	0
July	UNID	0	0	0	0	0	0	2	0	0	0	0	0
Aug	SH	NA	0	0	NA	0	0	0	0	0	NA	0	NA

Month	Category	Nimbus Main Channel	Nimbus Side Channel	Upper Sunrise Main Channel	Upper Sunrise Side Channel	Lower Sunrise Main Channel	Lower Sunrise Side Channel**	Rossmoor Main Channel	Gristmill Main Channel	Riverbend Main Channel	Riverbend Side Channel	Watt Avenue Main Channel	Paradise Beach Main Channel
Aug	CS	NA	0	0	NA	0	0	0	0	0	NA	0	NA

- NA: Side channel no longer present, salmonids were salvaged from isolated pools in the upper Sunrise side channel in March
- *: Not able to seine due to presence of steelhead redds
- **: Lower Sunrise Side Channel is not connected at the upstream end
- ***: Not seined at this time

UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA
DAILY CVP WATER SUPPLY REPORT

SEPTEMBER 12, 2022

RUN DATE: SEPTEMBER 13, 2022

TABLE 1. RESERVOIR RELEASES IN CUBIC FEET/SECOND

RESERVOIR	DAM	WY 2021	WY 2022	15 YR MEDIAN
TRINITY	LEWISTON	461	953	477
SACRAMENTO	KESWICK	6,824	4,110	7,865
FEATHER	OROVILLE (SWP)	1,250	3,000	3,500
AMERICAN	NIMBUS	574	2,506	1,795
STANISLAUS	GOODWIN	352	234	208
SAN JOAQUIN	FRIANT	255	270	349

TABLE 2. STORAGE IN MAJOR RESERVOIRS IN THOUSANDS OF ACRE-FEET

RESEVOIR	CAPACITY	15 YR AVG	WY 2021	WY 2022	% O 15 YR AVG
TRINITY	2,448	1,325	797	580	44
SHASTA	4,552	2,364	1,155	1,550	66
FOLSOM	977	464	234	399	86
NEWMLEONES	2,420	1,236	875	626	51
FED. SAN LUIS	966	266	23	194	73
TOTAL NORTH CVP	11,363	5,655	3,084	3,349	59
MILLERTON	520	281	249	274	98
OROVILLE (SWP)	3,538	1,631	792	1,273	78

TABLE 3. ACCUMULATED INFLOW FOR WATER YEAR TO DATE IN THOUSANDS OF ACRE-FEET

RESERVOIR	CURRENT WY 2022	WY 1997	WY 1983	15 YR AVG	% O 15 YR AVG
TRINITY	485	211	2,872	1,004	48
SHASTA	2,825	2,465	10,615	4,547	62
FOLSOM	1,727	345	6,449	2,381	73
NEW MELONES	566	N/A	2,717	942	60
MILLERTON	921	347	4,575	1,455	63

TABLE 4. ACCUMULATED PRECIPITATION FOR WATER YEAR TO DATE IN INCHES

RESERVOIR	CURRENT WY 2022	WY 1977	WY 1983	AVG (IN YRS)	% OF AVG	LAST 24 HRS
TRINITY AT FISH HATCHERY	18.92	12.52	56.67	31.23 (60)	61	0.00
SACRAMENTO AT SHASTA DAM	41.35	17.69	114.50	60.78 (65)	68	0.00
AMERICAN AT BLUE CANYON	64.11	16.90	104.10	65.58 (47)	98	0.00
STANISLAUS AT NEW MELONES	19.63	N/A	46.38	27.00 (44)	73	0.00
SAN JOAQUIN AT HUNTINGTON LK	24.78	17.50	83.20	40.91 (47)	61	0.00

UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

SEPTEMBER 2022

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: SEPTEMBER 13, 2022

Day	ELEV	Storage In Lake (1000 Acre-Feet)	Storage Change (1000 Acre-Feet)	Computed Inflow C.F.S.	Power	Release C.F.S. River Spill	Outlet	Pumping Plant	Evaporation-C.F.S.	Evaporation-Inches	Precip. Inches
N/A	N/A	441.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	408.37	437.8	-3.9	1,351	3,045	0	0	184	79	.32	.00
2	407.80	433.6	-4.2	1,711	3,529	0	0	190	88	.36	.00
3	407.32	430.2	-3.5	2,006	3,471	0	0	205	83	.34	.00
4	406.83	426.6	-3.5	1,794	3,273	1	0	215	87	.36	.00
5	406.31	422.9	-3.7	1,546	3,115	0	0	205	103	.43	.00
6	405.93	420.2	-2.7	2,276	3,349	0	0	198	98	.41	.00
7	405.55	417.5	-2.7	2,356	3,422	0	0	202	88	.37	.00
8	404.93	413.1	-4.4	1,119	3,043	0	0	189	97	.41	.00
9	404.40	409.4	-3.7	1,070	2,684	0	0	183	73	.31	.00
10	403.89	405.8	-3.6	1,187	2,731	2	0	183	66	.28	.00
11	403.40	402.5	-3.4	1,035	2,497	2	0	184	61	.26	.00
12	402.89	398.9	-3.5	1,087	2,622	0	0	182	58	.25	.00
TOTALS	N/A	N/A	-42.8	18,538	36,781	5	0	2,320	981	4.10	.00
ACRE- FEET	N/A	N/A	-42,800	36,770	72,955	10	0	4,602	1,946	N/A	N/A

COMMENTS:

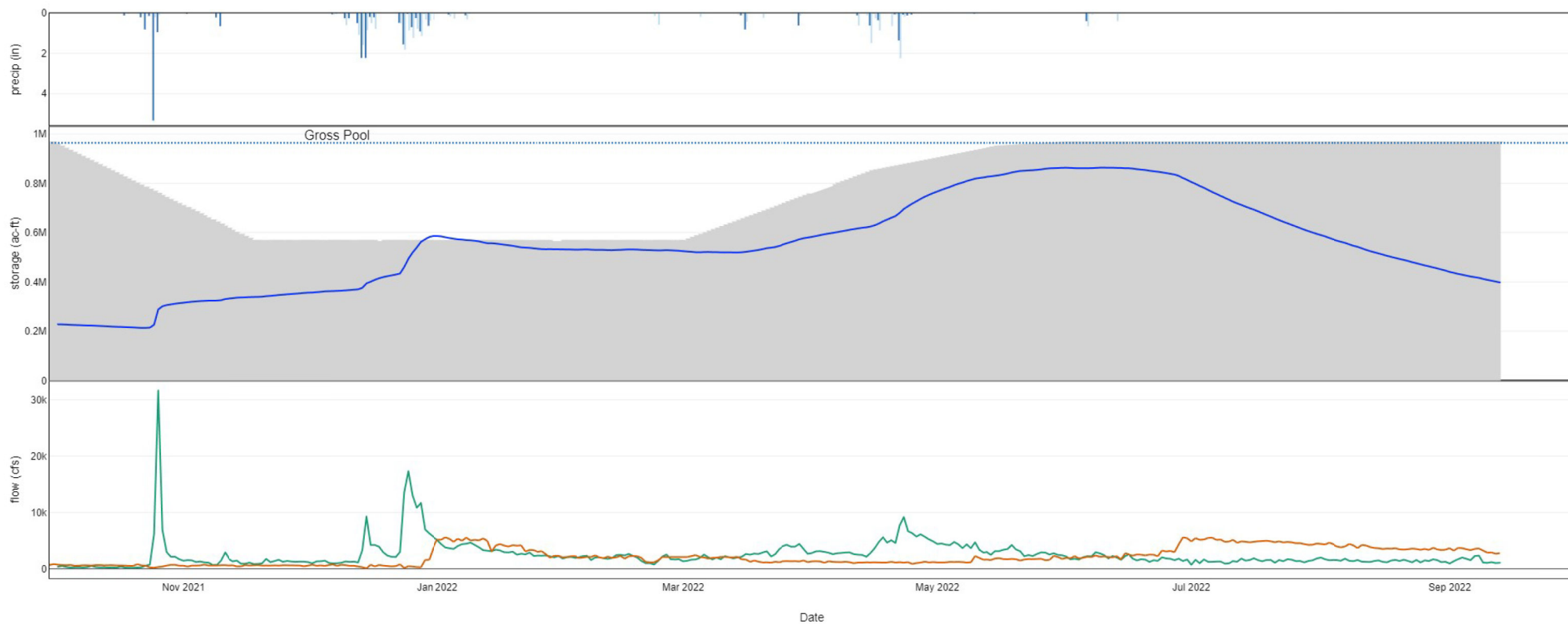
* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

RELEASE (ACRE-FEET)	N/A
POWER	72,955
SPILL	10
PUMPING PLANT	4,602
OUTLET	0
TOTAL	77,567

TIME	PRECIPITATION
THIS MONTH	.00
JULY 1, 2021 TO DATE	.00
OCT 1, 2021 TO DATE	23.95

Folsom Dam & Lake - American River Basin
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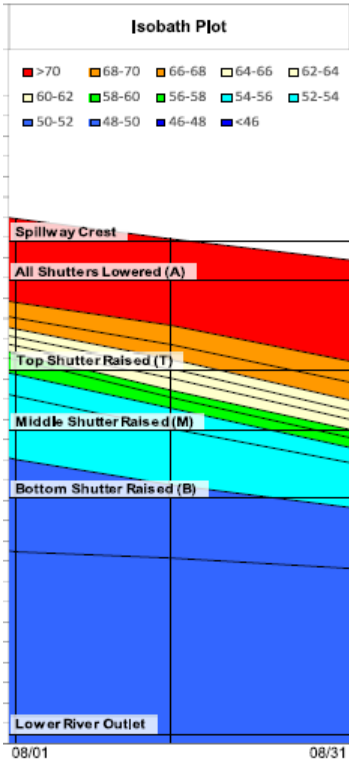


Figure 1. Isobath Plot 08/01- 08/31.

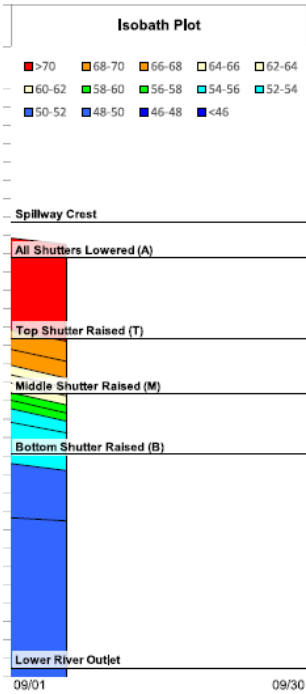


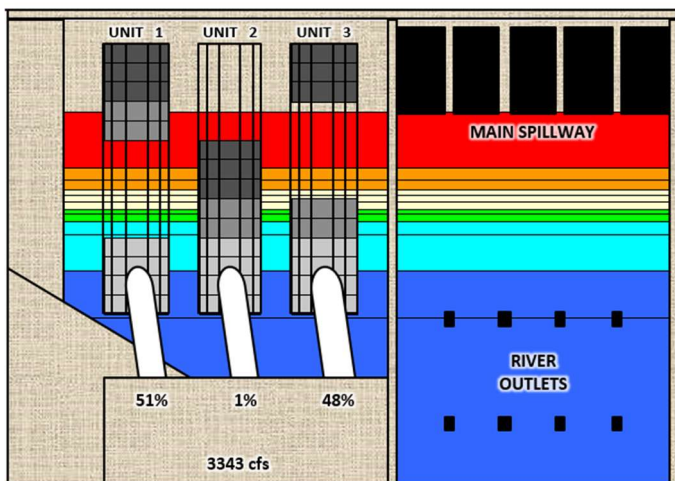
Figure 2. Isobath Plot 09/01- 09/30

Table 5. Isobath Plot 08/01- 08/31

Mean Daily Temperatures (°F) = MDT, Unit Shutter Position = USP, Load Percentage = LP, A= All Shutters Lowered, B= Bottom Shutter Raised, and T= Top Shutter Raised

Date	MDT Water NFA	MDT Water ARP	MDT Water AFD	MDT Water AFO	MDT Water AWP	MDT Water AWB	MDT Air CSU	Release (CFS) Nimbus	Storage (TAF) Folsom	USP Unit 1	LP Unit 1	USP Unit 2	LP Unit 2	USP Unit 3	LP Unit 3
Jul	63.9	68.5	60.8	63.4	64.0	65.2	74.5	4472	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/01	58.3	66.3	59.1	61.1	61.3	62.2	72.5	4009	586	T	39	O	1	T	61
08/02	59.0	66.9	59.4	61.4	62.3	63.6	81.8	4015	580	T	55	O	1	T	44
08/03	60.6	70.2	59.8	62.3	63.1	64.5	81.7	4014	574	T	57	O	1	T	42
08/04	62.0	71.5	60.0	62.8	63.7	65.1	81.7	3768	569	T	64	O	1	T	35
08/05	61.5	68.7	60.4	63.0	63.6	64.6	72.9	3762	564	T	56	O	1	T	43
08/06	60.2	67.4	60.5	63.1	63.9	65.1	72.6	3760	559	T	55	O	1	T	44
08/07	63.2	68.0	61.0	63.4	64.1	65.2	73.0	3762	553	T	55	O	1	T	45
08/08	64.1	67.6	61.4	63.6	64.1	65.3	73.0	3759	548	T	56	O	1	T	43
08/09	61.0	67.5	61.6	63.8	64.3	65.5	72.8	3762	543	T	59	O	1	T	40
08/10	60.1	67.3	61.9	64.2	64.7	65.7	72.6	3754	537	T	40	O	1	T	59
08/11	61.9	68.2	62.3	64.4	65.1	66.2	74.3	3511	531	T	54	O	1	T	46
08/12	63.6	67.6	62.5	64.7	65.4	66.4	74.3	3488	526	T	41	O	1	T	58
08/13	63.9	66.5	62.8	65.0	65.6	66.6	76.0	3492	521	T	55	O	1	T	44
08/14	63.6	65.6	63.1	65.4	65.9	67.0	78.8	3492	517	T	67	O	1	T	32
08/15	63.7	65.5	61.4	65.7	66.5	67.6	82.3	3260	512	M	52	O	1	T	47
08/16	65.0	66.1	61.6	65.3	66.4	67.9	85.5	3213	507	M	27	O	1	T	72
08/17	64.2	64.8	61.6	64.3	64.9	66.1	82.1	3210	503	M	30	O	1	T	70
08/18	62.6	66.2	61.6	64.1	65.2	66.4	80.8	3208	498	M	34	O	1	T	66
08/19	63.9	66.9	62.5	64.5	65.2	66.5	78.5	3214	494	M	25	O	1	T	74
08/20	63.8	66.0	62.6	65.5	66.2	67.4	81.0	3214	490	M	27	O	1	T	72
08/21	64.2	65.3	62.7	65.5	66.2	67.5	75.9	3211	486	M	28	O	1	T	71
08/22	66.0	65.4	62.5	65.8	66.3	67.5	75.0	3211	481	M	34	O	1	T	65
08/23	64.1	65.6	63.1	65.6	66.5	68.0	80.7	3214	477	M	31	O	1	T	68
08/24	63.4	66.9	63.6	65.8	66.7	68.1	79.9	3208	472	M	27	O	1	T	73
08/25	63.6	66.8	63.6	66.4	66.9	68.0	73.7	3213	468	M	30	O	1	T	69
08/26	63.4	65.6	63.2	66.3	67.1	68.2	73.8	3209	464	M	42	O	1	T	57
08/27	63.2	64.5	61.7	66.1	66.7	67.9	73.0	3209	460	M	66	O	1	T	33
08/28	63.2	63.6	62.1	65.0	65.7	66.9	71.2	3210	456	M	66	O	1	T	33
08/29	64.2	63.9	62.5	65.0	65.6	66.7	73.1	3207	452	M	63	O	1	T	36
08/30	65.3	64.8	63.0	65.3	66.0	67.2	75.8	3209	447	M	64	O	1	T	35
08/31	65.8	65.8	62.0	65.6	66.2	67.5	76.8	3211	442	M	61	O	1	M	38

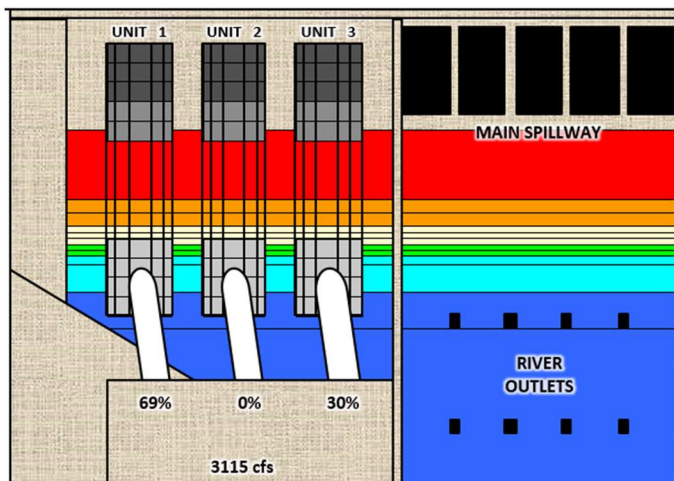
FOLSOM DAM



8/15/22

61.4 °F

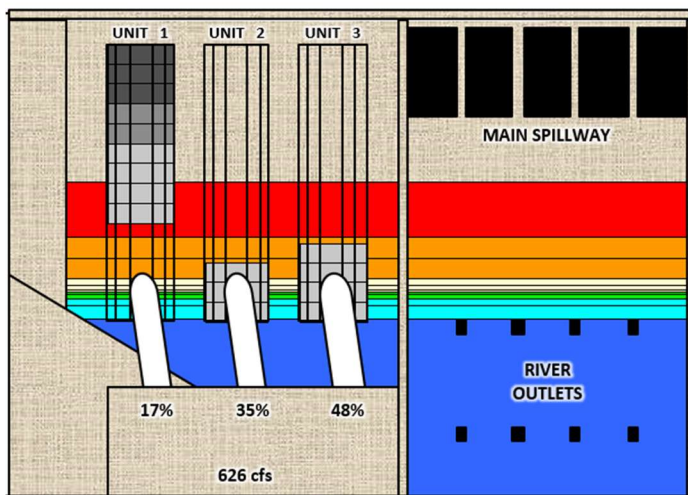
FOLSOM DAM



9/5/22

63.1 °F

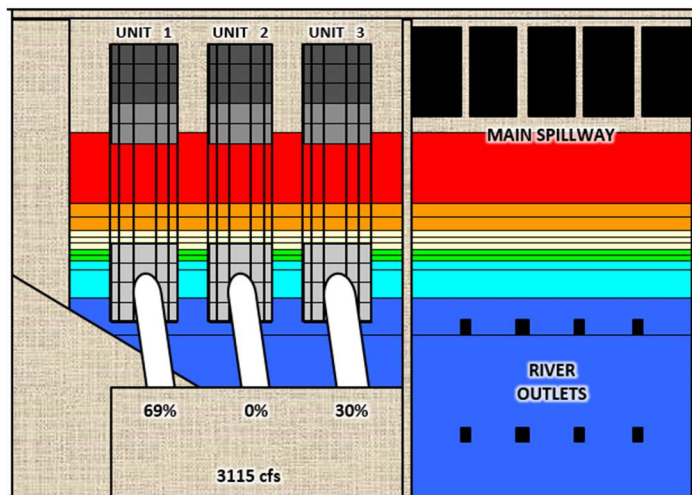
FOLSOM DAM



9/5/21

68.3 °F

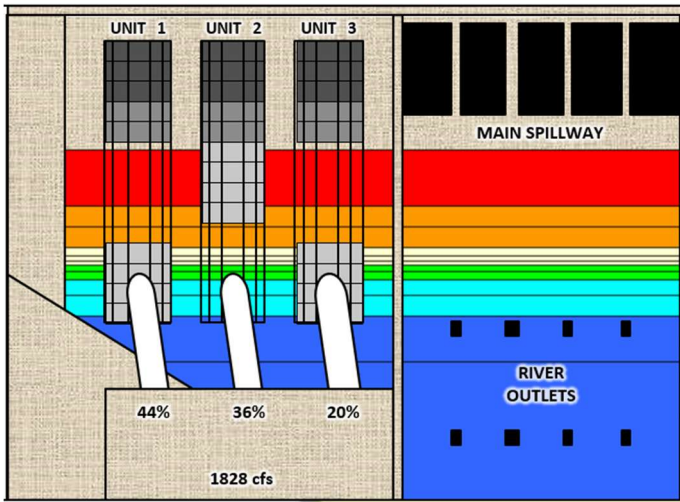
FOLSOM DAM



9/5/22

63.1 °F

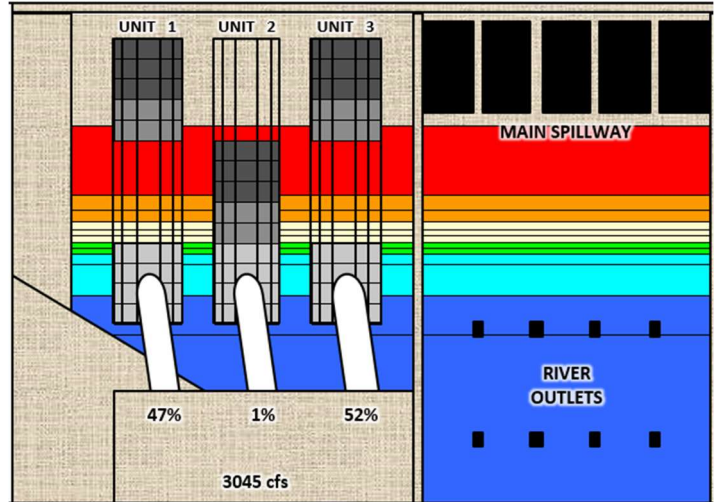
FOLSOM DAM



9/1/16

63.6 °F

FOLSOM DAM



9/1/22

61.8 °F

American River Summary Conditions – September (On-going)

- Releases are currently at 2,500 cfs
 - September 8, 2022, from 3,250 cfs to 3,000 cfs
 - September 9, 2022, from 3,000 to 2,750 cfs
 - September 10, 2022, from 2,750 to 2,500 cfs

Temperature Management:

- Top Shutters: Units 1, 2, and 3 -- raised
- Middle Shutters: Units 1, 2, and 3 -- raised
- Bottom Shutters: Units 1, and 2 – down and Unit 3 --raised

Folsom Shutter Configuration and Changes:

Drawing water from Units 1, 2, and 3 (blending Unit 3 with Units 1 and 2)

American River 90% Outlook:

September 90% Exceedance

Table 7. Federal End of the Month Storage/Elevation (TAF/Feet)

Facility	Aug	Sep	Oct	Nov	Dec
Folsom Storage	442	343	300	265	238
Folsom Elevation	N/A	394	387	381	375

Table 8. Monthly River Release (TAF/cfs)

Facility	Aug	Sep	Oct	Nov	Dec
American TAF	N/A	152	84	78	80
American cfs	N/A	2560	1369	1304	1303

American River Base Flow Table

Month	Index Used for Index-based MRR	Index Based MRR	RDPA-based MRR for fall-run Chinook salmon (applicable in January and February)	RDPA-based MRR for steelhead (applicable February through May)	Controlling MRR	Actual Average Monthly Nimbus release ¹
October	May ARI ² (50% exceedance)	515 cfs	N/A	N/A	515 cfs	627 cfs
November	May ARI ² (50% exceedance)	515 cfs	N/A	N/A	515 cfs	583 cfs
December	May ARI ² (50% exceedance)	515 cfs	N/A	N/A	515 cfs	890 cfs
January	January SRI (75% exceedance)	1750 cfs	515 cfs	N/A	515 cfs	3787 cfs
February	February ARI (50% exceedance)	1750 cfs	1750 cfs	500 cfs	1750 cfs	2047 cfs
March	March ARI (50% exceedance)	1,7333 cfs	1, 215 cfs	500 cfs	1, 197 cfs	1620 cfs
March	March ARI ³ (90% exceedance)	1,197 cfs	1, 215 cfs	500 cfs	1, 197 cfs	1620 cfs
April	April ARI (50% exceedance)	1142 cfs	Not applicable	1215 cfs	1215 cfs Operating to 1000 cfs) ³	1037 cfs
April	April ARI ³ (90% exceedance)	1006 cfs	Not applicable	1215 cfs	1215 cfs Operating to 1000 cfs) ³	1037 cfs
May	May ARI (50% exceedance)	1270 cfs	Not applicable	1215 cfs	1270 cfs	1404 cfs
May	May ARI (90% exceedance)	1209 cfs	N/A	1215 cfs	1270 cfs	1404 cfs
June	May ARI ² (50% exceedance)	1269 cfs	Not applicable	Not applicable	1269 cfs	2516 cfs
Jul	May ARI ² (50% exceedance)	1702 cfs	Not applicable	Not applicable	1702 cfs	4487 cfs
Aug	May ARI ² (50% exceedance)	1702 cfs	Not applicable	Not applicable	1702 cfs	3450 cfs
Sept	May ARI ² (50% exceedance)	1702 cfs	Not applicable	Not applicable	1702 cfs	N/A

MRR= Minimum Release Requirements; RDPA= Redd Dewatering Protective Adjustment; ARI= American River Index; SRI= Sacramento River Index

¹ Average of daily release over the month from NAT station on CDEC.

² Since new 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.

³ Due to critical CVP system wide ops, MRR 90% was considered and implemented.