



— BUREAU OF —
RECLAMATION

American River Group

1:30 PM – 3:30 PM

Conference Line: 1.415.594.5500 Access Code: 490-125-520#

Webinar: <https://join.me/kearnswest>

Thursday, September 17, 2020

Agenda

1. Introductions
2. Presentation: Hydropower Operations [Ansel Lundberg, Ben Barker, Mike Prowatzke] (30 min)
3. Operations Forecast
 - a. SMUD
 - b. PCWA
 - c. Central Valley Operations
4. Central Valley Operations
 - a. Temperature management
 - b. Exceedance forecast & temperature schedules
5. Discussion
 - a. Annual Report update
 - b. Fisheries management discussion recap
 - c. Power bypass considerations
6. Next Meeting: Thursday, October 15, 1:30-3:30pm

SMUD Upper American River Project Update

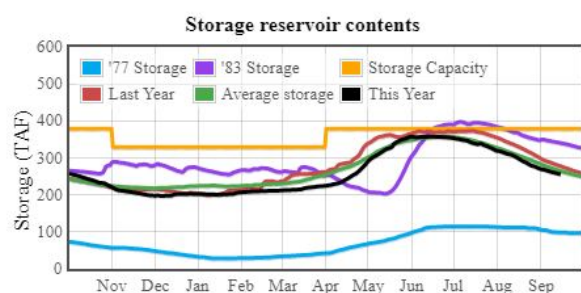
Conditions – 15 September 2020:

September precipitation through 9/15/2020 7:00:00 AM is .00 in., which is 0% of the September average of 1.02". Precip for the water year to date is 35.48" which is 62% of average to date (56.81") and 62% of the entire water year average of 57.32".

Combined reservoir storage for Loon Lake, Union Valley and Ice House Reservoirs

- 255,555 acre feet (August 16, 2020 storage: 293,548 acre feet)
- 67.4% capacity
- 97% of historical average (15 September historical average: 264,451 AF / 69.7%)
- 2% decrease in storage since last week

September 15 reservoir storage: (Figure 1)



- Loon Lake: 42,504 AF
- Ice House: 26,802 AF
- Union Valley: 186,249 AF

Last year today, storage was at 73.5% (278,741 AF). *Total non-winter capacity: 379,174 AF.

Chili Bar releases into the South Fork American River

August 2020 releases:

- Daily average flow: 970 cfs
- Total releases: 59,663 AF

September 2020 releases (Sept 1-14):

- Daily average flow so far: 632 cfs
- Total releases so far: 17,544 AF

Runoff into the storage reservoir basins is 69% of median to date through Sep 14. The snowpack is 0% of average at selected snow sensors.

Runoff Forecast (in cfs, daily average forecast) (Figure 2)

BASIN	Fri 18 Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep
SFA above Slab	15.8	15.8	15.8	15.7	15.7	15.7
Slab Creek	84.0	82.5	81.0	79.6	78.1	76.7
Combined South Fork	100	98	97	95	94	92

PCWA MFP OPERATIONS OVERVIEW for American River Operations Group (Real Time Data as of September 15, 2020)

- ❖ **French Meadows Storage = 77,000 AF of 136,405 AF = 57% Capacity**
 - MFAR above FM Inflow (R24) = ~1 cfs
 - ❖ **Hell Hole Storage = 107,000 AF of 207,590 AF = 51% Capacity**
 - Five Lakes Inflow (R23) = ~5 cfs
 - Rubicon Inflow (R22) = ~1 cfs
 - ❖ **Combined Storage (FM+HH) = 184,000 AF/342,590 AF = 54% Capacity; 92% Average**
 - ❖ **POWER PRODUCTION – 14 HRS per day**
 - ❖ **MFAR @ R11: 7 day daily average ~600 cfs**
 - ❖ **Forced Outage: Last week's PG&E Public Safety Power Shutoff (PSPS) resulted in a forced unplanned MFP outage – duration was 9/8 ~1230pm through 9/9 ~330pm. PCWA cancelled recreational releases for those two days. Notifications went to CA State Parks and designated representatives for the whitewater outfits.**
 - ❖ **PCWA annual MFP maintenance outage:**
 - Middle Fork/Ralston 10/1/2020 06:00 – 10/30/2020 19:00
 - Oxbow Powerhouse 10/1/2020 06:00 – 11/13/2020 17:00
- FERC minimum instream flow for the MFAR peaking reach for the outage period is 140cfs (Oct) and 145cfs (Nov). The annual Wounded Warrior event downstream of Oxbow Powerhouse is October 1st through the 4th – PCWA will maintain a steady flow rate between 200-300cfs for the duration of this event downstream of Ralston Afterbay.
- ❖ **Fork Fire**
 - Personnel = 316
 - 1,752 acres
 - 24% containment
 - Est Containment Date -Tuesday September 22nd, 2020

2020 Water Year Dashboard

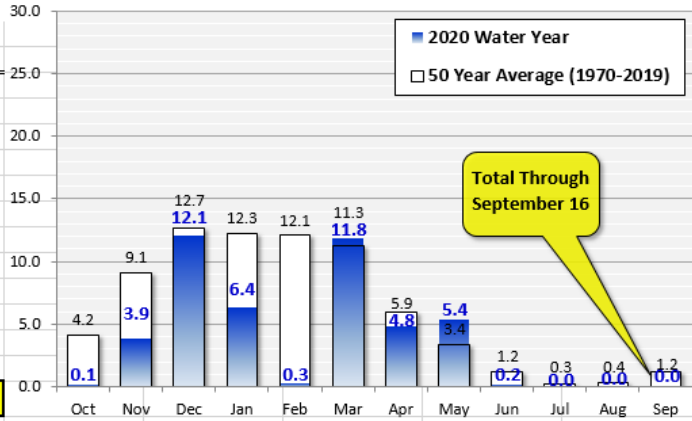


Updated through: September 16, 2020

Lake Spaulding Precipitation

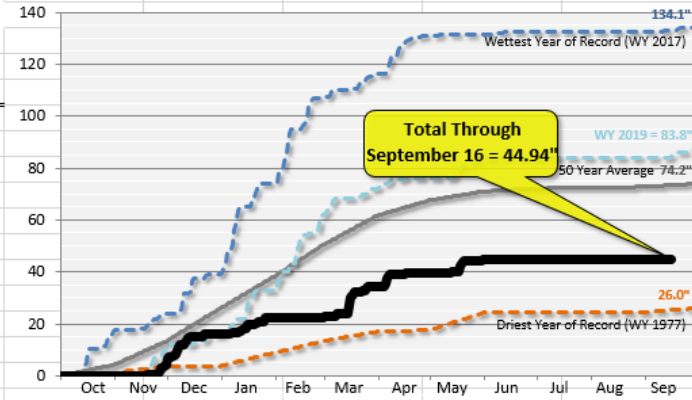
Monthly Totals (values in inches of precipitation):

	Historical Average ^{2/}	Actual This Year	Percent of Average
October	4.17	0.13	3%
November	9.07	3.85	42%
December	12.70	12.11	95%
January	12.26	6.36	52%
February	12.11	0.32	3%
March	11.31	11.82	104%
April	5.94	4.79	81%
May	3.41	5.40	158%
June	1.18	0.16	14%
July	0.25	0.00	0%
August	0.37	0.00	0%
September	1.23	0.00	0%
October		44.9 inches	



Cumulative Totals (values in inches of precipitation):

Through Month of:	Historical Cumulative Average ^{2/}	Accumulation to Date	% of Average to Date
October	4.17	0.13	3%
November	13.24	3.98	30%
December	25.94	16.09	62%
January	38.20	22.45	59%
February	50.32	22.77	45%
March	61.63	34.59	56%
April	67.57	39.38	58%
May	70.99	44.78	63%
June	72.16	44.94	62%
July	72.42	44.94	62%
August	72.79	44.94	62%
September	74.02	44.94	61%



Footnotes:

1/ Cumulative total since October 1, 2020 reported at California Data Exchange Center (http://cdec.water.ca.gov/cgi-progs/stationInfo?station_id=LSP).

2/ Based on 50 year average for Lake Spaulding (1970 through 2019). Station ID = LSP

3/ Monthly snow water equivalent for DWR & American River Basin are reported at California Data Exchange Center (<http://cdec.water.ca.gov/cgi-progs/snow/COURSES>). PG&E and PCWA results can be found on CDEC but are also provided by PG&E. PCWA Station ID's are WBM, MCB, DMN, and TBC.

4/ Monthly reservoir storage reported at California Data Exchange Center (<http://cdec.water.ca.gov/staInfo.html>). Station IDs are BWN, JCK, FOL, HHL, and FMD. Lake Spaulding, Fordyce Lake, and Rollins Lake storage provided by PG&E.

* Information on this report is provisional and subject to change

American River Summary Conditions – September (On-going)

- September has been characterized by smoke cover from multiple wildfires. The smoke cover intensity has varied but for the first half of the month was quite heavy. Some hot days, but most were in the low to mid 90's.
- Fish picket installation during the morning of September 17. This should be our last fish picket installation, new fish ladder should be in use next year.

Storage/Release Management Conditions

- Releases currently at 2,000 cfs to support Delta needs.
- Releases will be dropped to 1,750 cfs after the installation of the fish pickets.

Temperature Management:

- Per Temperature Schedule 40 Sep Objective is 68 F at Watt Ave Bridge
- Middle and Upper shutters on Units 2 and 3 have been raised.
- We had 3 days exceeding 68 Sep 5-7 owing to a short but very hot period. Releases were increased to offset the heat and temperatures at Watt Ave dropped below 68 degrees on Sep 8.
- In August we had several temperature exceedences, Aug 9-10, Aug 12-15, and Aug 17. During this period the cold water blend was increased several times to offset the increased temperatures. Owing to the extreme nature of the heat spell, it took several increases to bring the river temperature back down.

DAILY CVP WATER SUPPLY REPORT

SEPTEMBER 15, 2020

RUN DATE: September 16, 2020

RESERVOIR RELEASES IN CUBIC FEET/SECOND

RESERVOIR	DAM	WY 2019	WY 2020	15 YR MEDIAN
TRINITY	LEWISTON	461	968	472
SACRAMENTO	KESWICK	8,410	7,039	7,992
FEATHER	OROVILLE (SWP)	9,000	2,100	4,000
AMERICAN	NIMBUS	2,440	2,009	1,781
STANISLAUS	GOODWIN	401	205	205
SAN JOAQUIN	FRIANT	400	399	350

STORAGE IN MAJOR RESERVOIRS IN THOUSANDS OF ACRE-FEET

RESERVOIR	CAPACITY	15 YR AVG	WY 2019	WY 2020	% OF 15 YR AVG
TRINITY	2,448	1,450	2,082	1,431	99
SHASTA	4,552	2,514	3,516	2,261	90
FOLSOM	977	486	723	449	92
NEW MELONES	2,420	1,370	2,035	1,543	113
FED. SAN LUIS	966	291	478	306	105
TOTAL NORTH CVP	11,363	6,112	8,834	5,990	98
MILLERTON	520	275	389	189	69
OROVILLE (SWP)	3,538	1,782	2,415	1,673	94

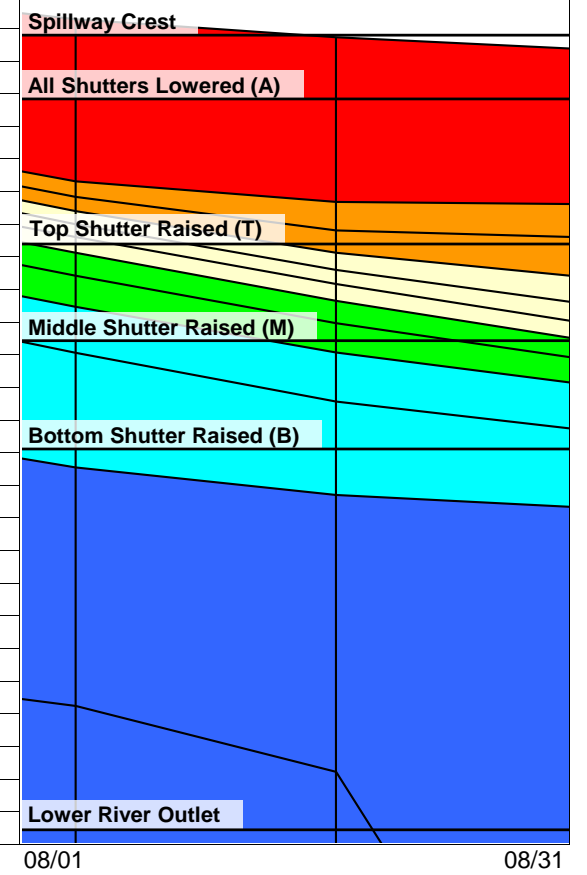
ACCUMULATED INFLOW FOR WATER YEAR TO DATE IN THOUSANDS OF ACRE-FEET

RESERVOIR	CURRENT WY 2020	WY 1977	WY 1983	15 YR AVG	% OF 15 YR AVG
TRINITY	455	211	2,875	1,157	39
SHASTA	3,186	2,484	10,649	5,082	63
FOLSOM	1,498	346	6,463	2,674	56
NEW MELONES	632	---	2,722	1,059	60
MILLERTON	913	351	4,598	1,627	56

ACCUMULATED PRECIPITATION FOR WATER YEAR TO DATE IN INCHES

RESERVOIR	CURRENT WY 2020	WY 1977	WY 1983	AVG (N YRS)	% OF AVG	LAST 24 HRS
TRINITY AT FISH HATCHERY	20.54	14.16	56.67	31.75 (58)	65	0.00
SACRAMENTO AT SHASTA DAM	34.51	17.55	114.50	61.73 (63)	56	0.00
AMERICAN AT BLUE CANYON	39.50	16.96	104.10	66.37 (45)	60	0.00
STANISLAUS AT NEW MELONES	22.35	---	46.38	27.43 (42)	81	0.00
SAN JOAQUIN AT HUNTINGTON LK	28.25	17.50	83.20	41.79 (45)	68	0.00

DATE	Mean Daily Temperatures (°F)							Release (CFS)	Storage (TAF)	Unit Shutter Position / Load Percentage						Isobath Plot	
	Water						Air			Nimbus	Folsom	Unit 1		Unit 2			Unit 3
	NFA	ARP	AFD ¹	AHZ	AWP	AWB	CSU	Unit 1	Unit 2			Unit 3	Unit 4	Unit 5	Unit 6		Unit 7
Aug	67.0	69.0	62.4	65.2	66.1	66.2	74.9	3629									
08/01	63.3	64.4	61.9	64.3	65.4	65.6	75.3	3009	551	T	46	T	37	T	17		
08/02	63.8	64.9	62.1	64.5	65.7	65.9	76.2	3012	547	T	15	T	65	T	20		
08/03	64.9	65.6	62.3	64.9	66.1	66.3	78.3	3009	543	T	19	T	23	T	58		
08/04	65.3	66.7	62.7	64.9	66.2	66.4	73.8	3006	538	T	56	T	27	T	17		
08/05	65.2	65.6	62.9	65.3	66.1	66.1	67.6	3008	534	T	18	T	62	T	20		
08/06	64.3	65.0	63.2	65.6	66.7	66.5	69.8	2698	531	T	19	T	14	T	67		
08/07	65.1	66.1	63.5	65.6	66.9	67.1	74.8	2540	527	T	45	T	36	T	19		
08/08	65.9	65.9	63.6	66.0	67.5	67.8	77.8	2509	524	T	22	T	60	T	18		
08/09	66.0	66.2	64.0	66.4	67.9	68.3	80.8	2500	521	T	43	T	38	T	19		
08/10	66.5	65.9	64.1	66.6	68.1	68.5	78.5	2528	518	T	22	T	47	T	31		
08/11	66.5	66.5	64.4	66.7	67.6	67.8	71.4	2543	514	T	51	T	19	T	30		
08/12	66.4	66.9	62.7	67.0	68.1	68.1	75.8	2538	510	T	52	M	30	T	18		
08/13	66.5	64.8	62.9	66.6	68.2	68.6	84.3	2546	508	T	20	M	29	T	51		
08/14	65.9	62.4	62.3	66.3	67.7	68.3	87.6	2547	506	T	18	M	37	T	45		
08/15	63.8	61.9	!	-	65.8	67.8	68.4	91.3	2547	505	T	39	M	41	T	20	
08/16	62.0	61.2	!	-	66.3	67.4	67.7	92.7	2536	504	T	15	M	47	T	38	
08/17	61.1	62.3	62.3	65.6	67.7	68.6	88.5	2517	502	T	35	M	50	T	14		
08/18	60.9	61.1	62.4	65.2	67.0	?	67.5	89.3	2523	501	T	22	M	50	T	28	
08/19	59.3	59.7	61.5	65.8	66.7	67.0	87.0	2517	498	T	30	M	48	M	22		
08/20	57.7	60.4	62.7	64.4	65.8	66.0	77.1	2522	497	T	45	M	30	M	26		
08/21	57.5	59.0	63.6	64.6	65.3	65.1	76.3	2521	494	T	54	M	29	M	17		
08/22	56.5	57.2	63.2	65.1	66.0	66.0	80.0	2518	493	T	52	M	16	M	32		
08/23	57.7	57.5	63.3	65.3	66.3	66.4	80.7	2519	492	T	52	M	19	M	29		
08/24	58.9	57.6	63.5	65.5	66.3	66.3	80.9	2520	490	T	54	M	28	M	18		
08/25	60.1	57.6	?	63.6	65.6	66.9	66.9	77.8	2490	488	T	54	M	25	M	21	
08/26	60.5	58.4	63.8	65.7	67.1	67.1	74.0	2273	486	T	56	M	23	M	21		
08/27	61.0	62.6	62.6	66.1	67.1	66.9	71.7	2238	484	T	23	M	55	M	23		
08/28	?	61.3	60.9	63.7	65.2	66.9	67.1	75.1	2202	482	T	45	M	27	M	29	
08/29	?	60.8	60.0	64.2	65.4	66.6	66.6	74.4	2218	480	T	55	M	23	M	23	
08/30	?	61.2	58.5	64.3	66.2	67.1	66.9	73.8	2259	479	T	55	M	23	M	23	
08/31	61.5	60.0	64.4	66.3	67.6	67.5	75.5	2034	477	T	54	M	22	M	23		
Aug	62.5	62.3	63.2	65.6	66.9	67.1	78.6	2547									
								Total AF	156588								



Legend

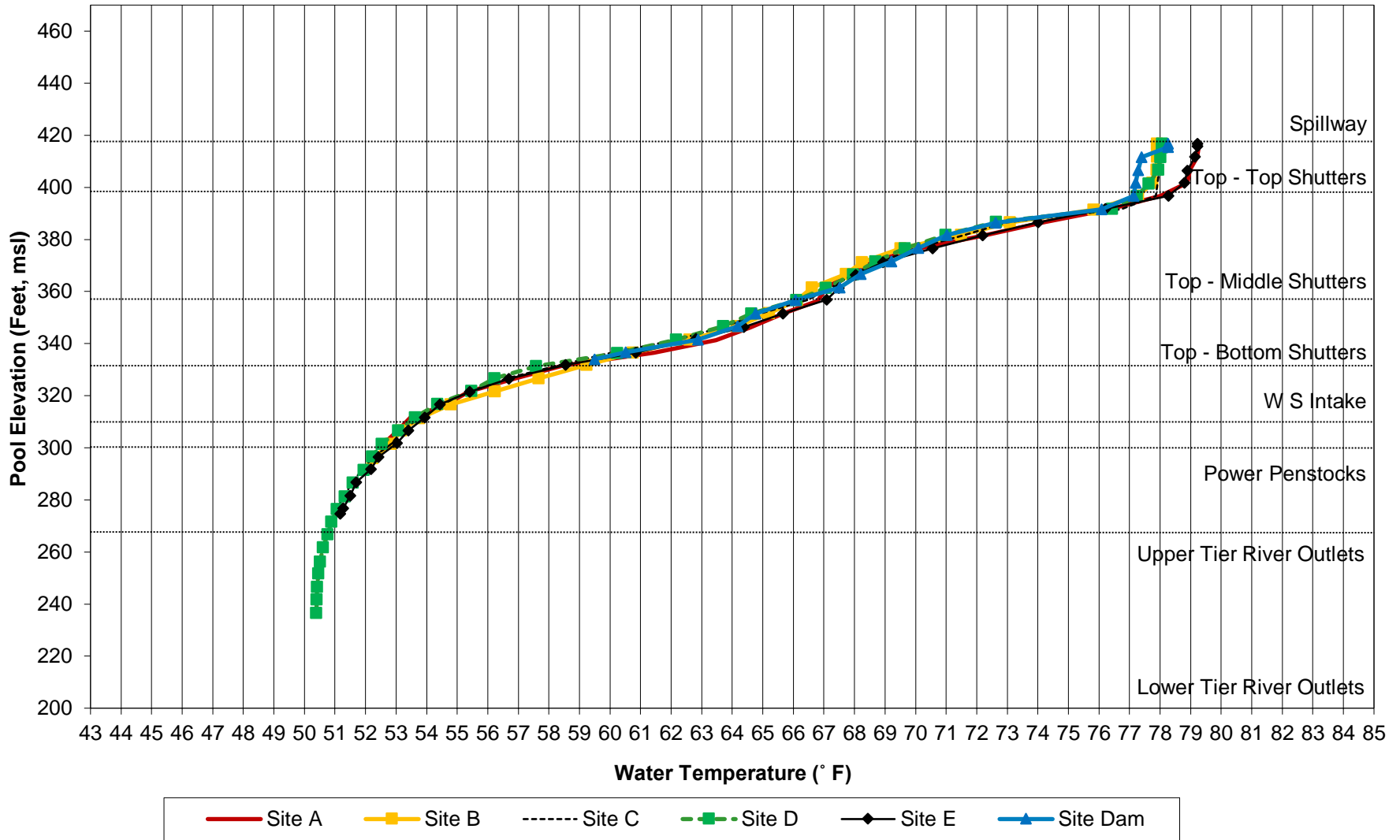
- ? = 1-9 hours of data missing
- ! = 10 or more hours of data missing
- # = Station out of service
- ☐ = Monthly Averages

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

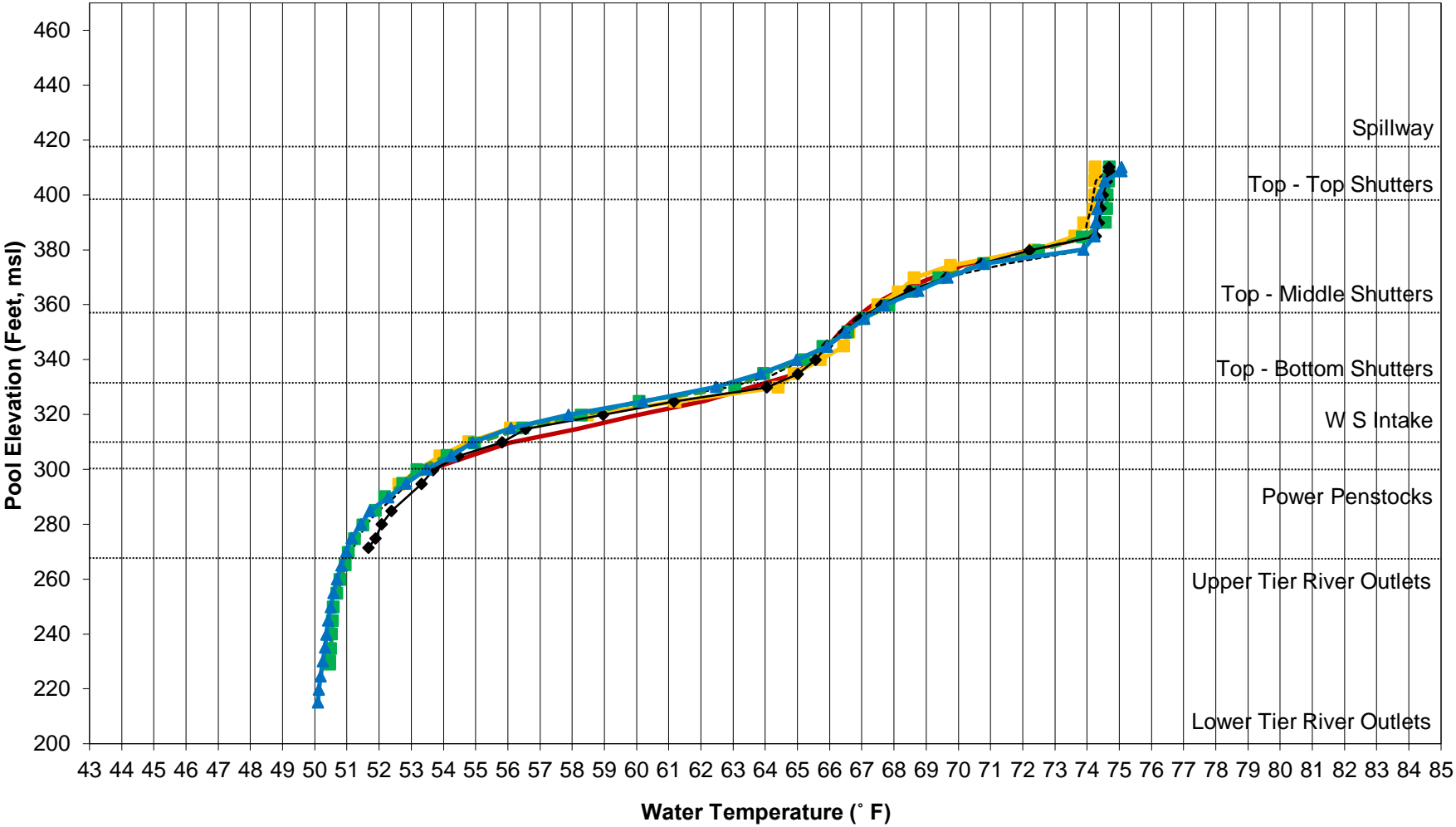
Notes

- 1 AFD is a weighted average using hourly flow values
- 2
- 3
- 4
- 5
- 6

Folsom Lake Temperature Profiles: 01-Sep-2020

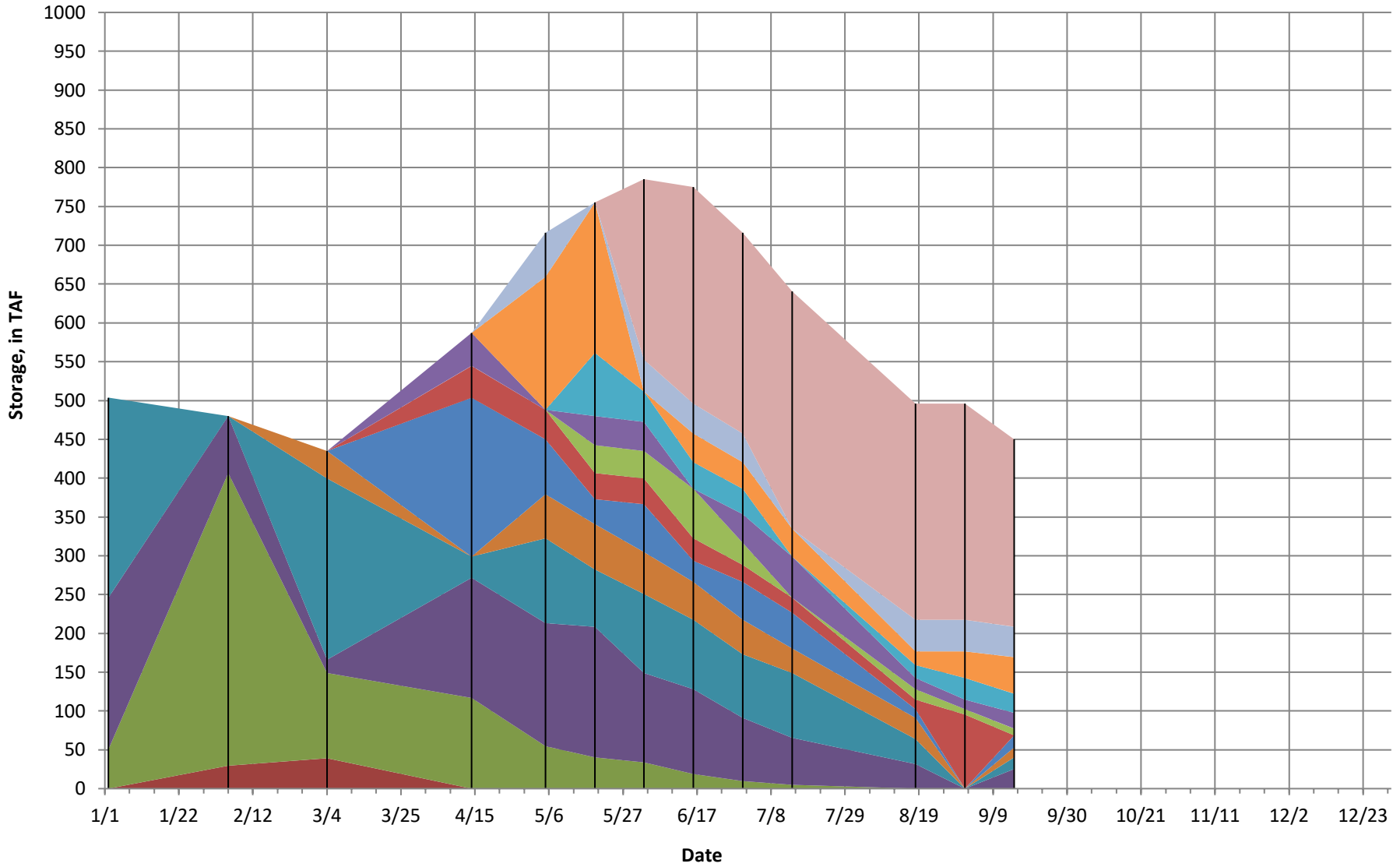
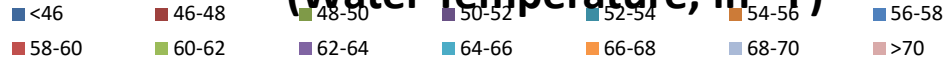


Folsom Lake Temperature Profiles: 15-Sep-2020



Folsom Lake Isothermobaths - 2020

(Water Temperature, in °F)



Folsom Cold Water Pool7

Folsom Reservoir: Cold Water Volume

Profile Date	Volume less than 58°F (TAF)
9/15/20	68.5

Penstock Elevation (ft)	Volume (TAF)	Approximate Max. Temp (F)
327	83	61.0

Proposed Power Generation Bypass/Lower River Outlet for Temperature Management

Date	Bypass/Lower River Outlet (cfs)	Temperature not to exceed downstream of Nimbus Dam (°F)	Cumulative Use of Cold Water Pool Volume (TAF)

DRAFT September 2020

90% Runoff Exceedance Outlook:

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

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

		Sep	Oct	Nov	Dec	Jan	Feb
Folsom	477	437	384	351	327	313	350
		408	401	396	392	389	396

Monthly River Releases (cfs)

American	1752	1500	1258	1250	1250	1189
MRR	1541	725	725	725		

50% Runoff Exceedance Outlook:

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

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

		Sep	Oct	Nov	Dec	Jan	Feb
Folsom	477	432	415	415	435	509	566
Elev.		408	405	405	408	418	424

Monthly River Releases (cfs)

American	1800	1500	1502	1500	1250	3700
MRR	1541	725	725	725		

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.

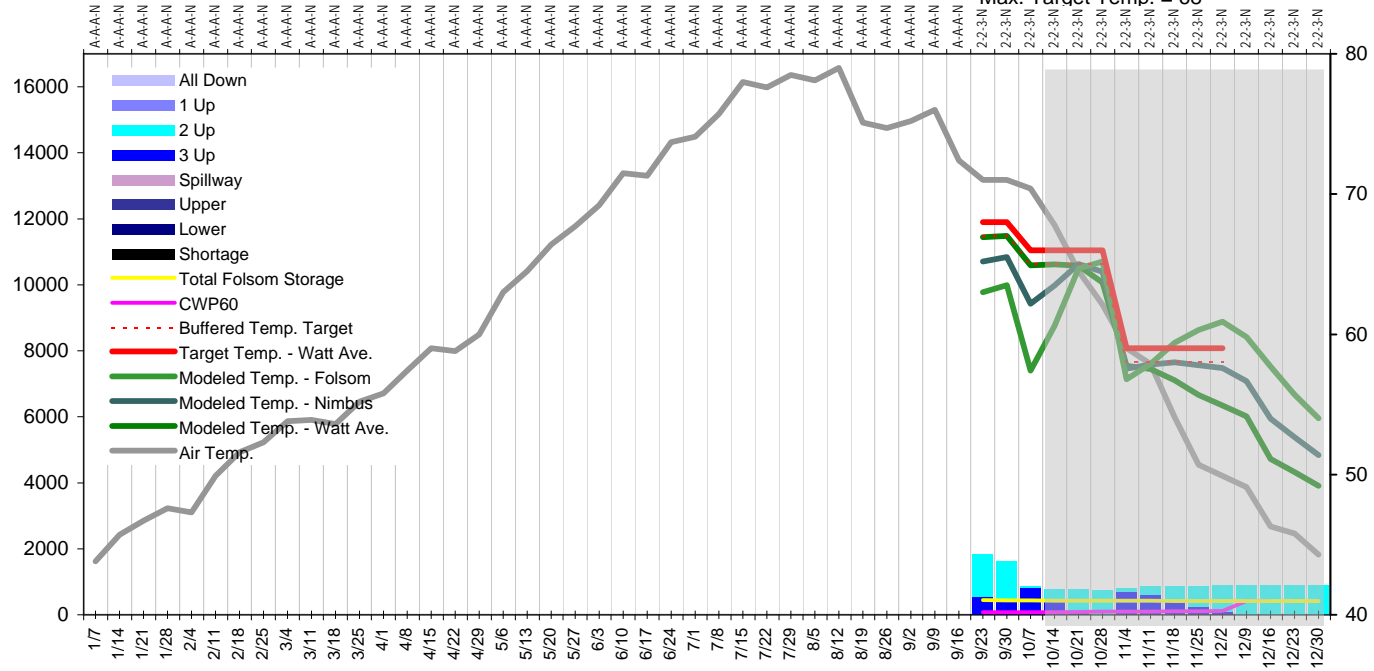
Sep 2020 Updated 90%-Exceedance Outlook

USBR Pred.

Temperature Schedule = 39
9/30 - CWP<60° (TAF, Constraint = 0) = 79
9/30 - Folsom Storage (TAF) = 436
Number of Excursions = 0

Max. Target Temp. = 68°

Release (cfs) / Volume (TAF)



Temperature (°F)

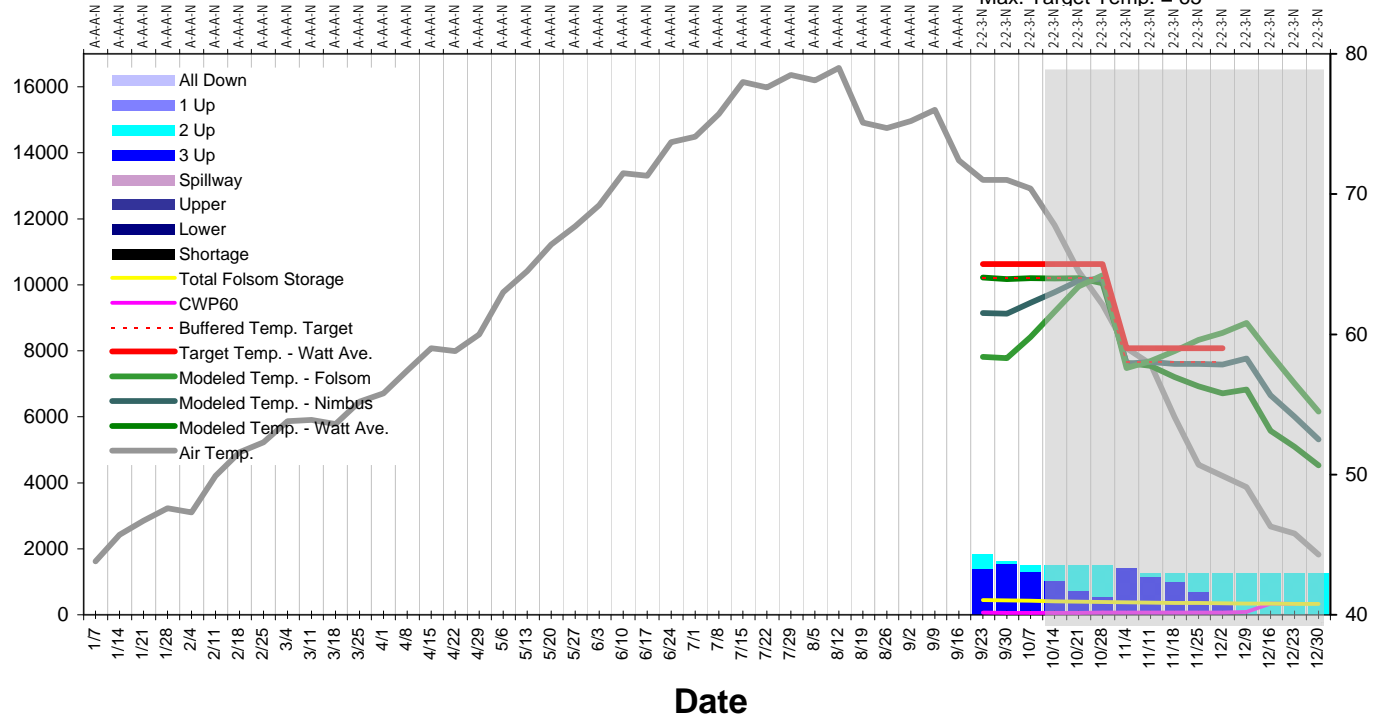
Sep 2020 Updated 90%-Exceedance Outlook

Temperature Schedule = 23
 9/30 - CWP<60° (TAF, Constraint = 0) = 62
 9/30 - Folsom Storage (TAF) = 436
 Number of Excursions = 0

USBR Pred.

Max. Target Temp. = 65°

Release (cfs) / Volume (TAF)



Temperature (°F)

Handouts September 24, 2020 ARG

Just a quick description of what temperature is being targeted in each run during specific time periods.

Alt 1

Now thru Oct 14 68 degrees

Oct 14 – Nov 4 65 degrees

Nov 4 on 56 degrees

Alt 2

Now thru Sep 30 68 degrees

Sep 30 – Nov 4 65 degrees

Nov 4 on 56 degrees

Alt 3

Now thru Oct 7 68 degrees

Oct 7 – Oct 21 65 degrees

Oct 21 – Nov 4 63 degrees

Nov 4 on 56 degrees

Alt 4

Now thru Oct 14 68 degrees

Oct 14 – Nov 4 63 degrees

Nov 4 on 56 degrees

Alt 5

Now thru Oct 28 68 degrees

Oct 28 on 56 degrees

Alt 6

Now thru Oct 14 68 degrees

Oct 14 – Oct 28 65 degrees

Oct 28 on 58 degrees

Alt 7

Now thru Sep 30 68 degrees

Sep 30 – Oct 28 65 degrees

Oct 28 on 58 degrees

Alt 8

Now thru Sep 30 68 degrees

Sep 30 – Oct 28 65 degrees

Oct 28 on 58 degrees

Alt 9

Now thru Sep 30 68 degrees

Sep 30 thru Oct 14 65 degrees

Oct 14 thru Nov 4 60 degrees

Nov 4 on 58 degrees

Alternative 1

9/24/2020

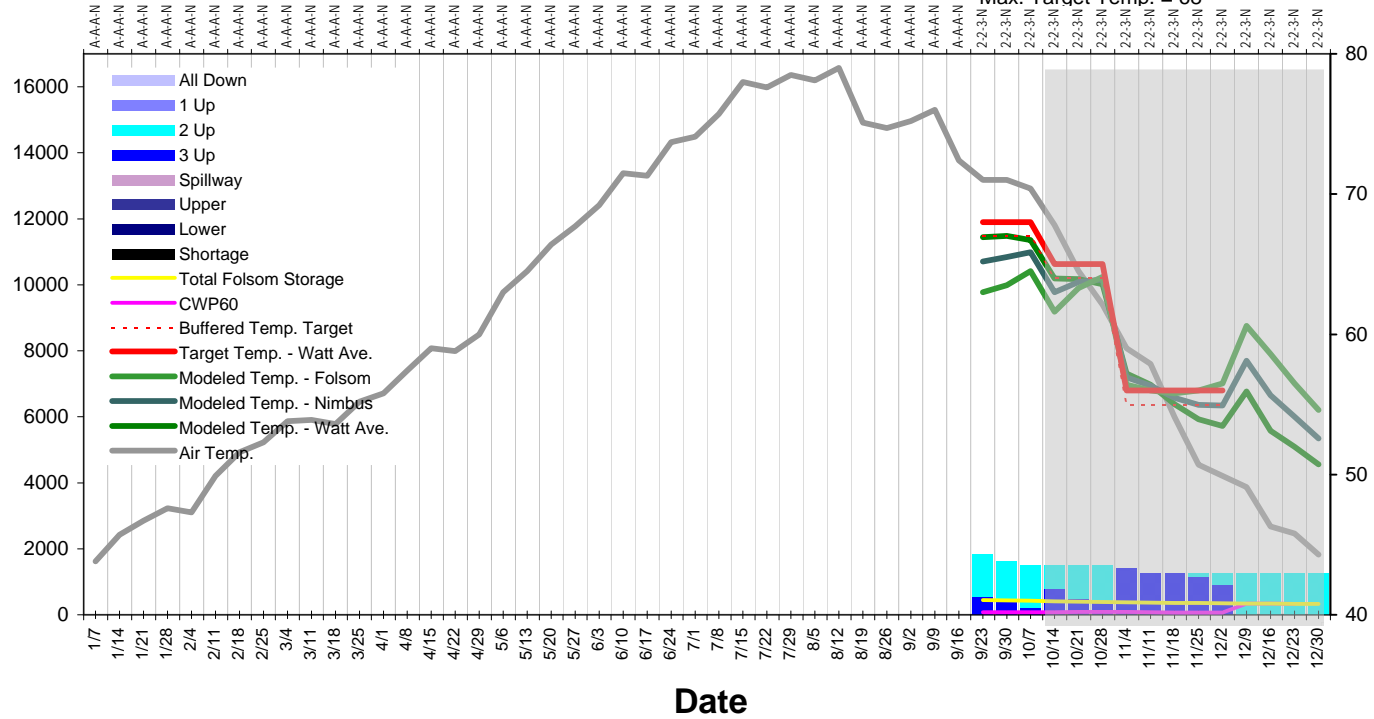
Sep 2020 Updated 90%-Exceedance Outlook

USBR Pred.

Temperature Schedule = 1
 9/30 - CWP<60° (TAF, Constraint = 0) = 79
 9/30 - Folsom Storage (TAF) = 436
 Number of Excursions = 3

Max. Target Temp. = 68°

Release (cfs) / Volume (TAF)



Temperature (°F)

Alternative 2

9/24/2020

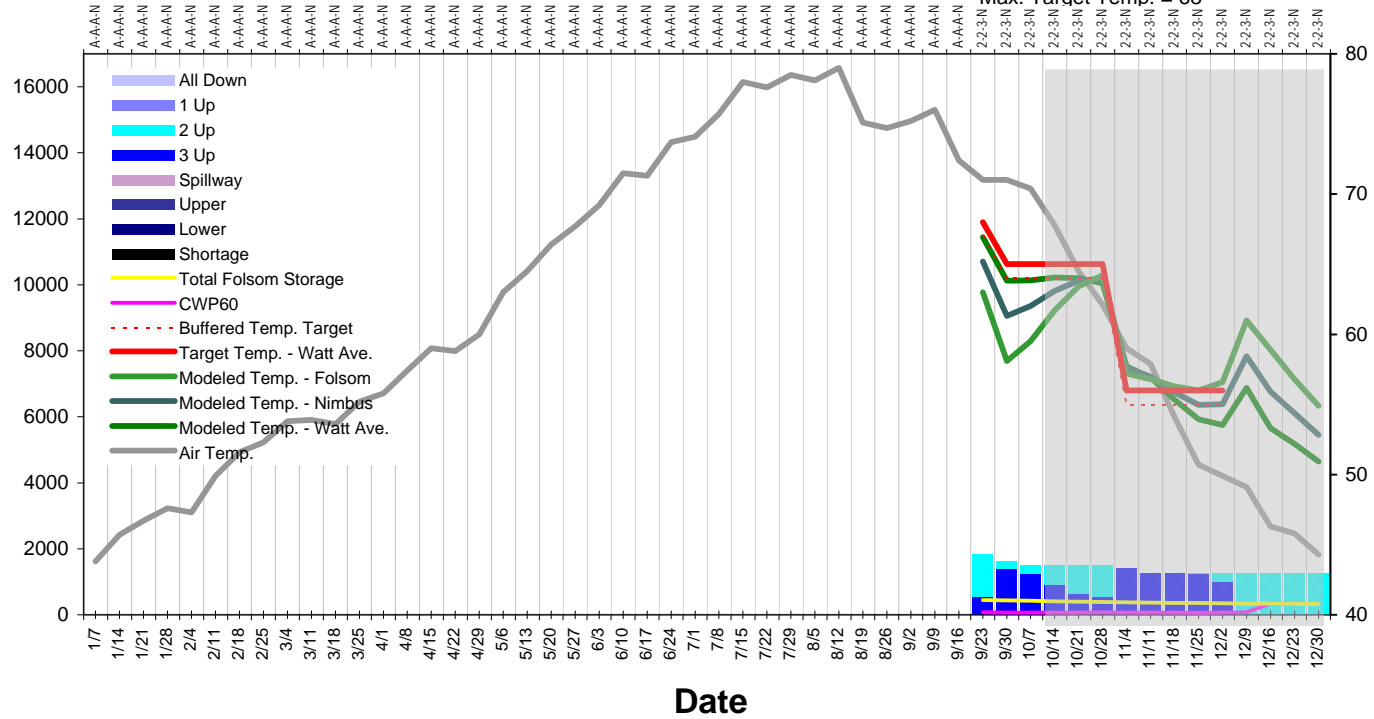
Sep 2020 Updated 90%-Exceedance Outlook

USBR Pred.

Temperature Schedule = 1
 9/30 - CWP<60° (TAF, Constraint = 0) = 69
 9/30 - Folsom Storage (TAF) = 436
 Number of Excursions = 3

Max. Target Temp. = 68°

Release (cfs) / Volume (TAF)



Temperature (°F)

Alternative 3

9/24/2020

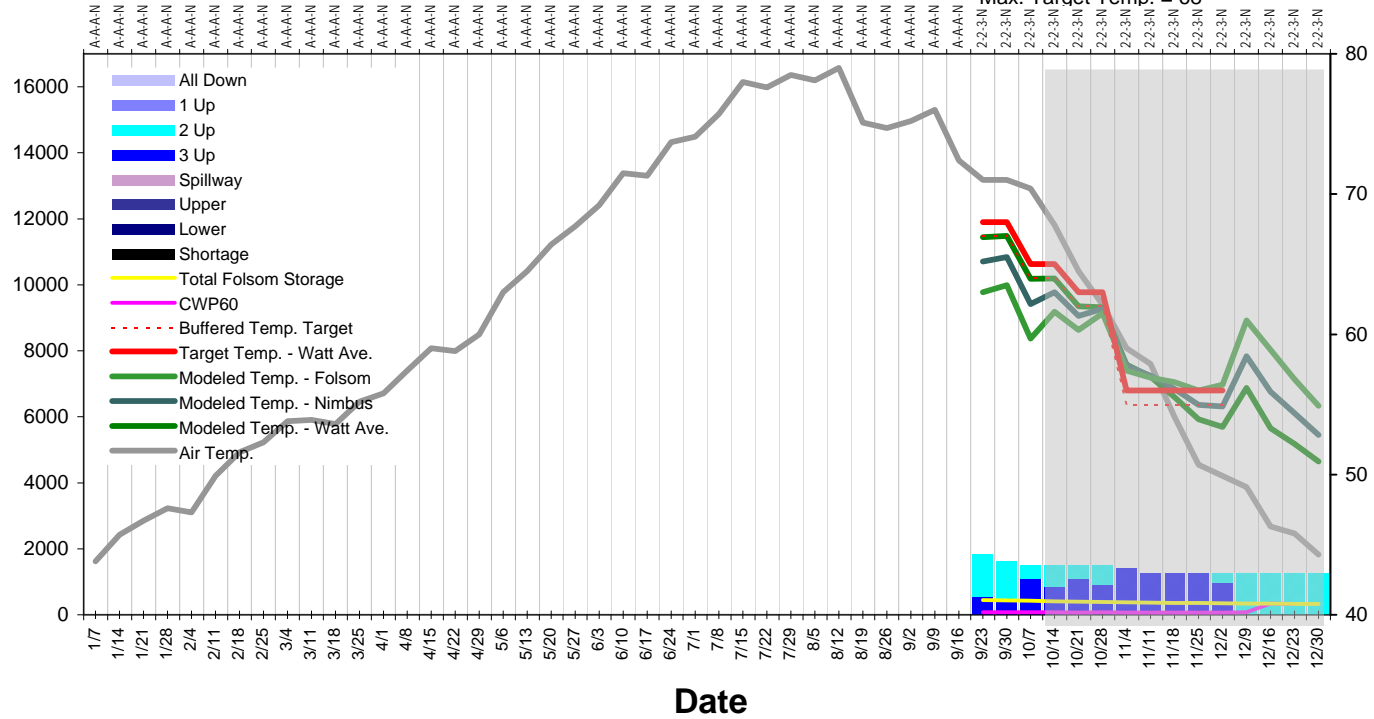
Sep 2020 Updated 90%-Exceedance Outlook

USBR Pred.

Temperature Schedule = 1
 9/30 - CWP<60° (TAF, Constraint = 0) = 79
 9/30 - Folsom Storage (TAF) = 436
 Number of Excursions = 3

Max. Target Temp. = 68°

Release (cfs) / Volume (TAF)



Temperature (°F)

Alternative 4

9/24/2020

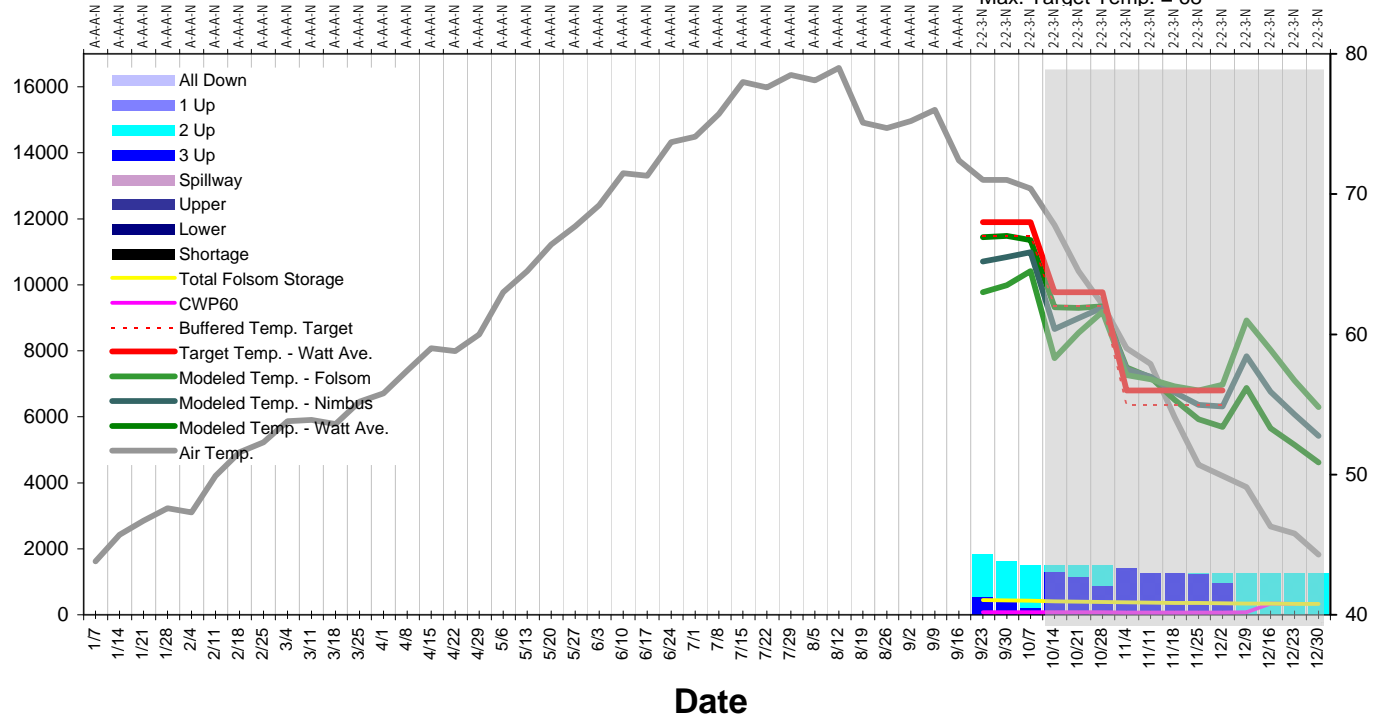
Sep 2020 Updated 90%-Exceedance Outlook

USBR Pred.

Temperature Schedule = 1
 9/30 - CWP<60° (TAF, Constraint = 0) = 79
 9/30 - Folsom Storage (TAF) = 436
 Number of Excursions = 3

Max. Target Temp. = 68°

Release (cfs) / Volume (TAF)



Temperature (°F)

Alternative 5

9/24/2020

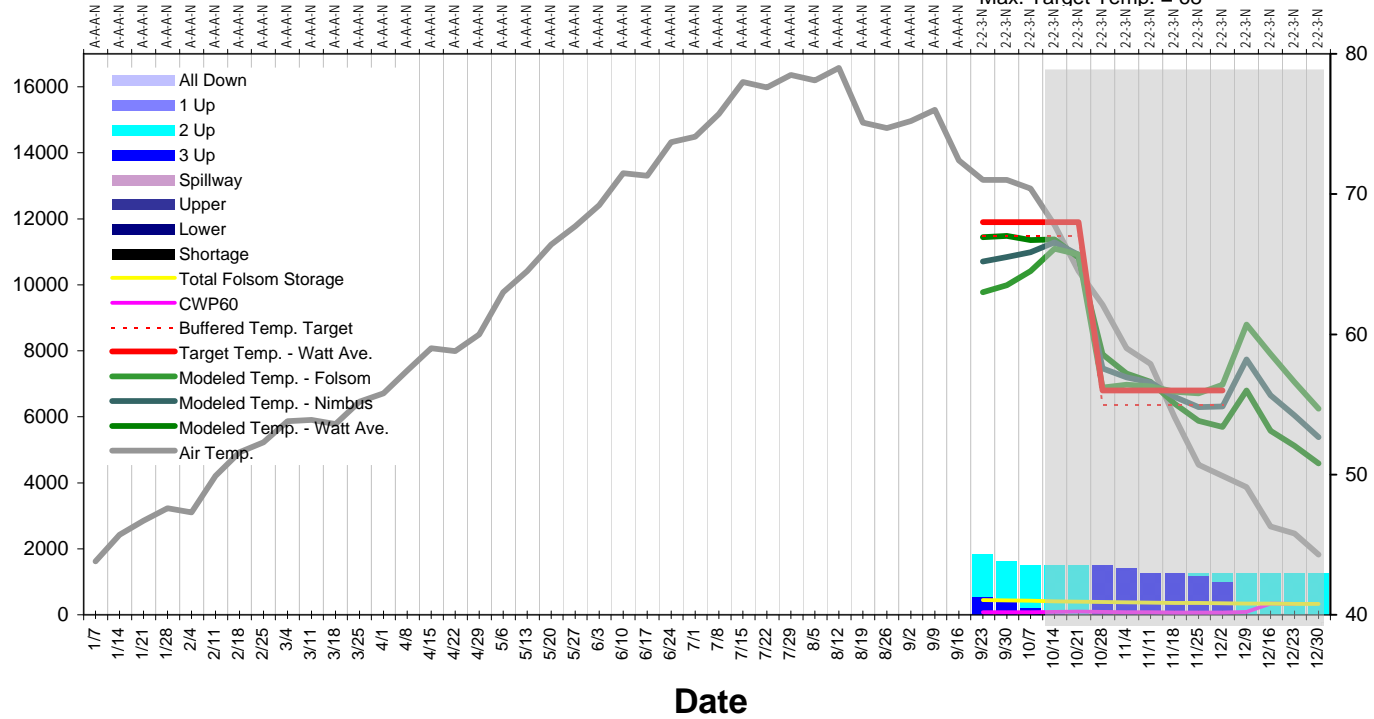
Sep 2020 Updated 90%-Exceedance Outlook

USBR Pred.

Temperature Schedule = 1
 9/30 - CWP<60° (TAF, Constraint = 0) = 79
 9/30 - Folsom Storage (TAF) = 436
 Number of Excursions = 4

Max. Target Temp. = 68°

Release (cfs) / Volume (TAF)



Temperature (°F)

Alternative 6

9/24/2020

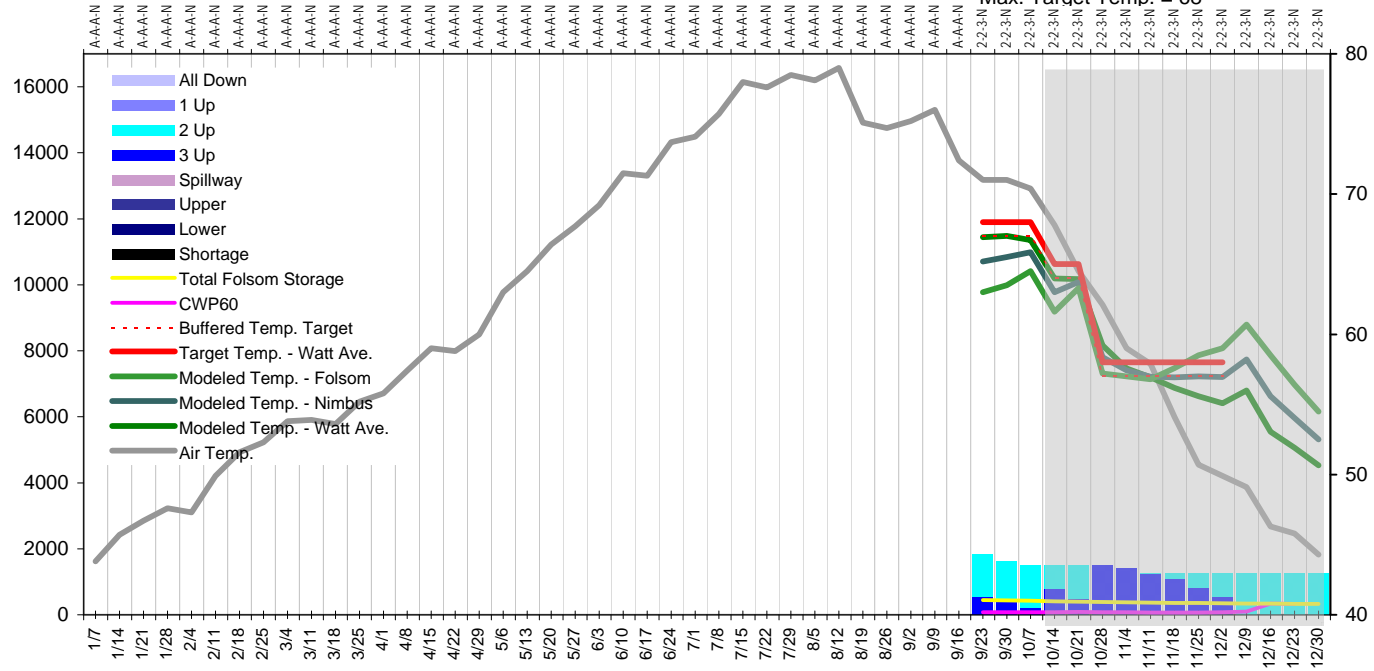
Sep 2020 Updated 90%-Exceedance Outlook

USBR Pred.

Temperature Schedule = 1
 9/30 - CWP<60° (TAF, Constraint = 0) = 79
 9/30 - Folsom Storage (TAF) = 436
 Number of Excursions = 2

Max. Target Temp. = 68°

Release (cfs) / Volume (TAF)



Date

Temperature (°F)

Alternative 7

9/24/2020

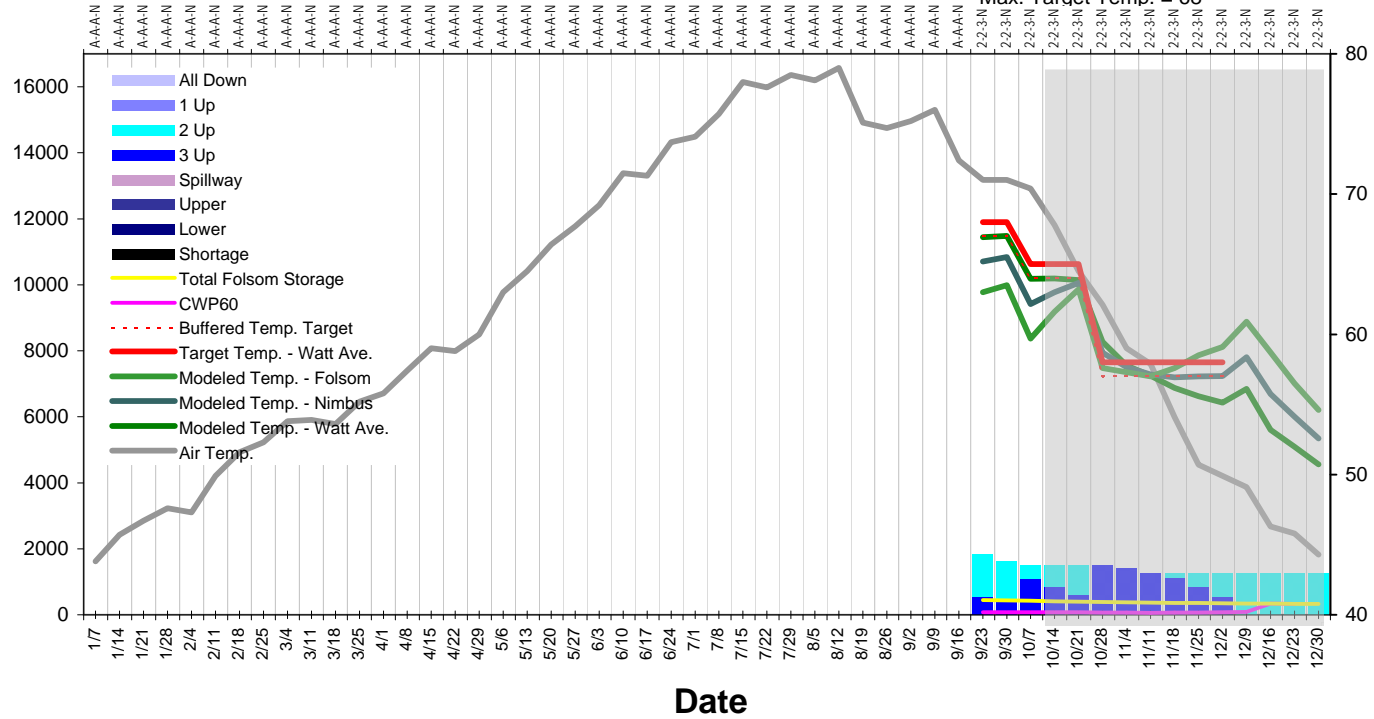
Sep 2020 Updated 90%-Exceedance Outlook

USBR Pred.

Temperature Schedule = 1
 9/30 - CWP<60° (TAF, Constraint = 0) = 79
 9/30 - Folsom Storage (TAF) = 436
 Number of Excursions = 3

Max. Target Temp. = 68°

Release (cfs) / Volume (TAF)



Temperature (°F)

Alternative 8

9/24/2020

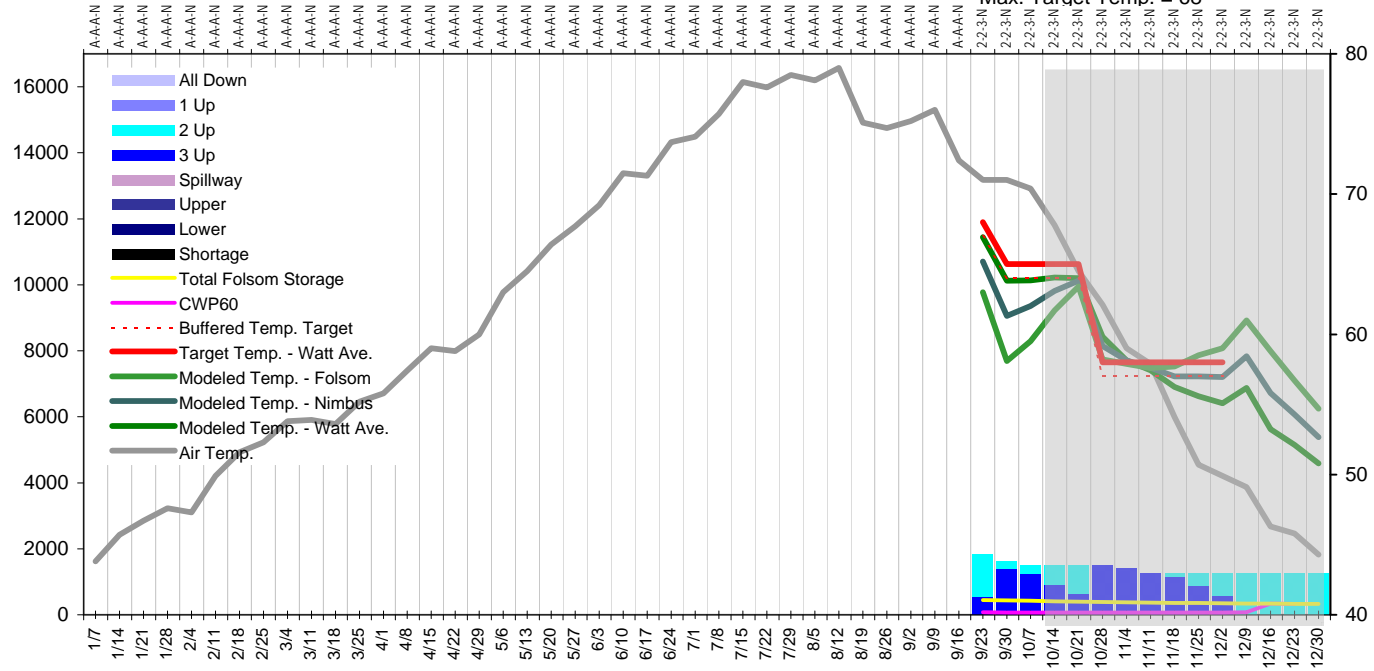
Sep 2020 Updated 90%-Exceedance Outlook

USBR Pred.

Temperature Schedule = 1
 9/30 - CWP<60° (TAF, Constraint = 0) = 69
 9/30 - Folsom Storage (TAF) = 436
 Number of Excursions = 3

Max. Target Temp. = 68°

Release (cfs) / Volume (TAF)



Date

Temperature (°F)

Alternative 9

9/24/2020

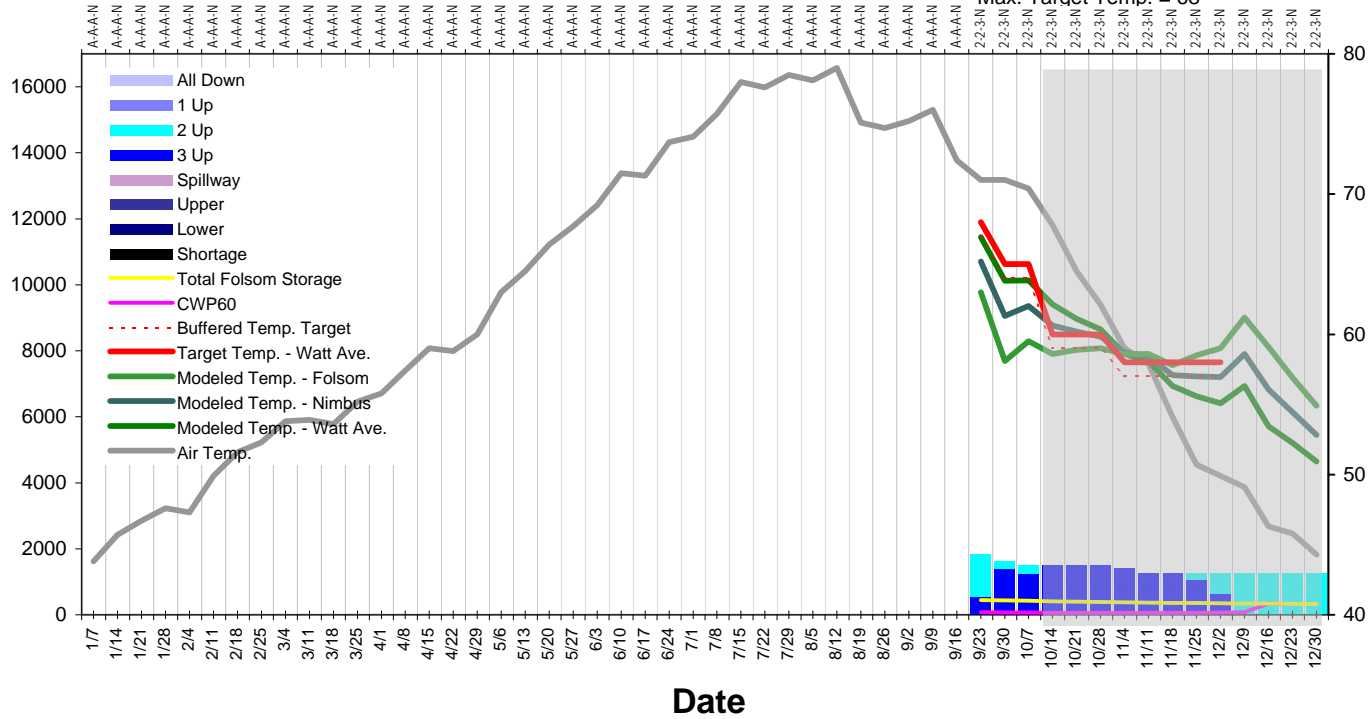
Sep 2020 Updated 90%-Exceedance Outlook

USBR Pred.

Temperature Schedule = 1
 9/30 - CWP<60° (TAF, Constraint = 0) = 69
 9/30 - Folsom Storage (TAF) = 436
 Number of Excursions = 6

Max. Target Temp. = 68°

Release (cfs) / Volume (TAF)



Temperature (°F)

Handouts September 25, 2020 ARG

Just a quick description of what temperature is being targeted in each run during specific time periods.

Alt 1_rev

Now thru Oct 14 68 degrees

Oct 14 – Oct 28 65 degrees

Oct 29 on 56 degrees

Alt 2_rev

Now thru Sep 30 68 degrees

Sep 30 – Oct 28 65 degrees

Oct 29 on 56 degrees

Alt 3_rev

Now thru Oct 7 68 degrees

Oct 7 – Oct 21 65 degrees

Oct 21 – Oct 28 63 degrees

Oct 29 on 56 degree

Alt 4_rev

Now thru Oct 14 68 degrees

Oct 14 – Oct 28 63 degrees

Oct 29 on 56 degrees

Alt 5_rev

Now thru Oct 28 68 degrees

Oct 29 on 56 degrees

Alt 5_rev_a

Now thru Oct 14 68 degrees

Oct 15 – Oct 28 66 degrees

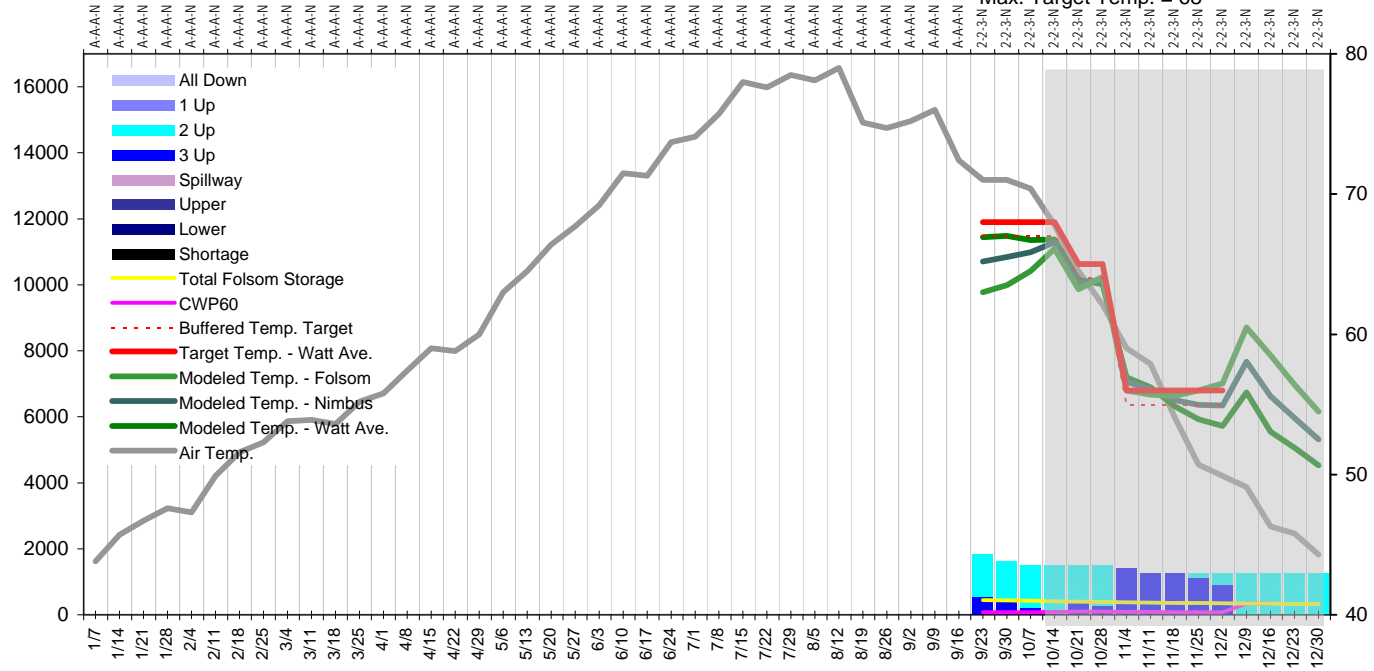
Oct 29 on 56 degrees

Sep 2020 Updated 90%-Exceedance Outlook

Temperature Schedule = 1
 9/30 - CWP<60° (TAF, Constraint = 0) = 79
 9/30 - Folsom Storage (TAF) = 436
 Number of Excursions = 3
 Max. Target Temp. = 68°

USBR Pred.

Release (cfs) / Volume (TAF)



Date

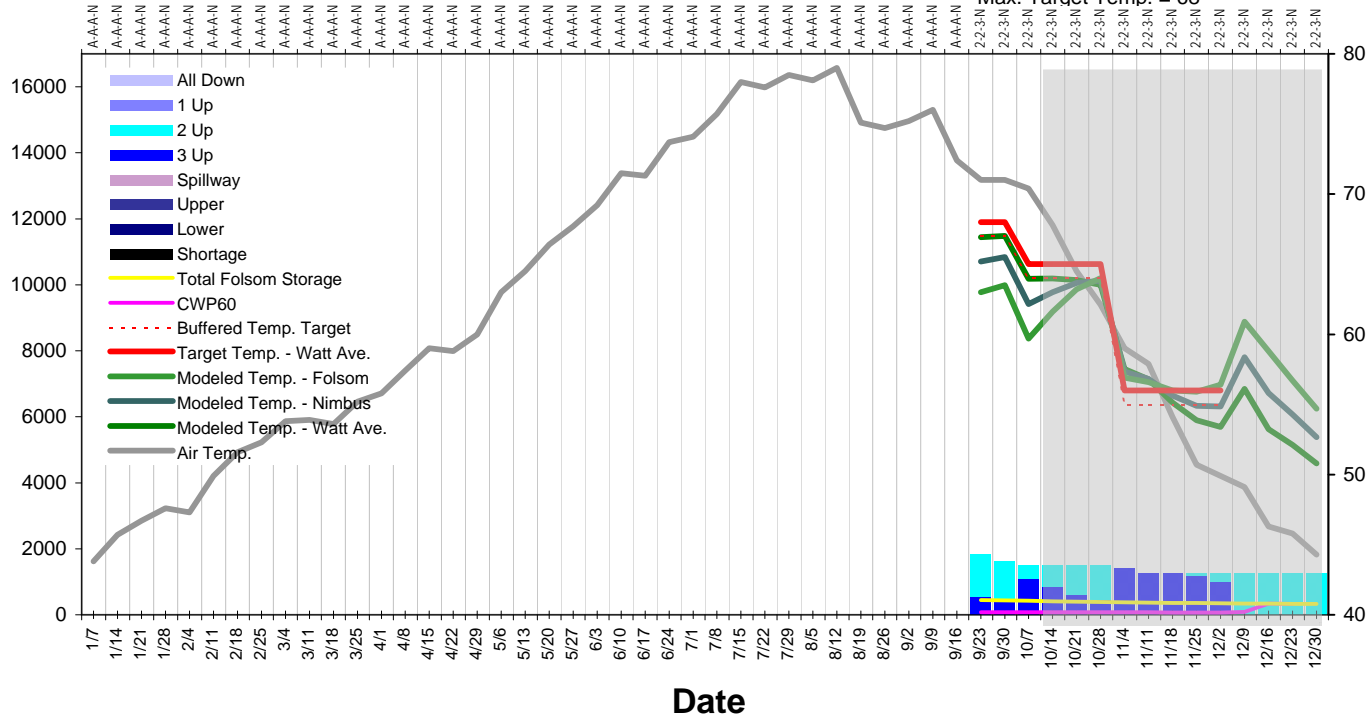
Temperature (°F)

Sep 2020 Updated 90%-Exceedance Outlook

USBR Pred.

Temperature Schedule = 1
9/30 - CWP<60° (TAF, Constraint = 0) = 79
9/30 - Folsom Storage (TAF) = 436
Number of Excursions = 3
Max. Target Temp. = 68°

Release (cfs) / Volume (TAF)

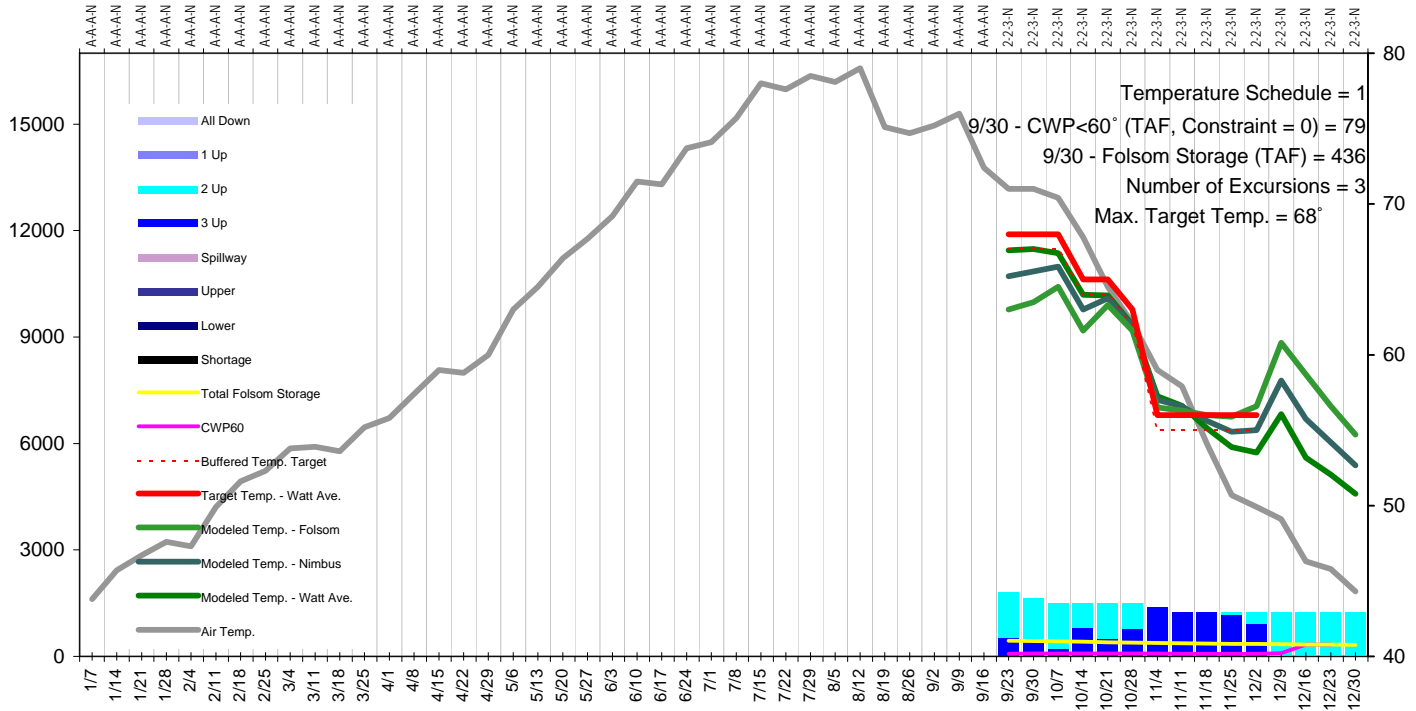


Temperature (°F)

Sep 2020 Updated 90%-Exceedance Outlook

USBR Pred.

Release (cfs) / Volume (TAF)



Temperature (°F)

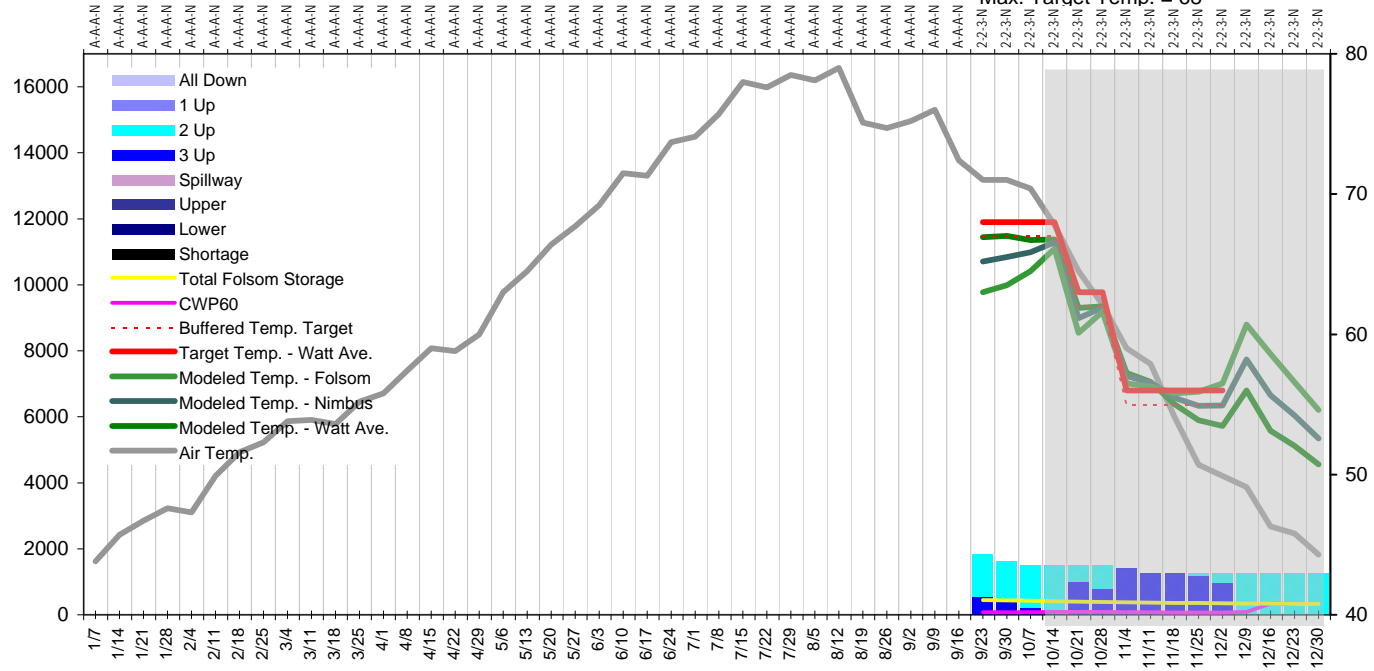
Release (cfs) / Volume (TAF)

Sep 2020 Updated 90%-Exceedance Outlook

Temperature Schedule = 1
 9/30 - CWP<60° (TAF, Constraint = 0) = 79
 9/30 - Folsom Storage (TAF) = 436
 Number of Excursions = 3
 Max. Target Temp. = 68°

USBR Pred.

Release (cfs) / Volume (TAF)



Date

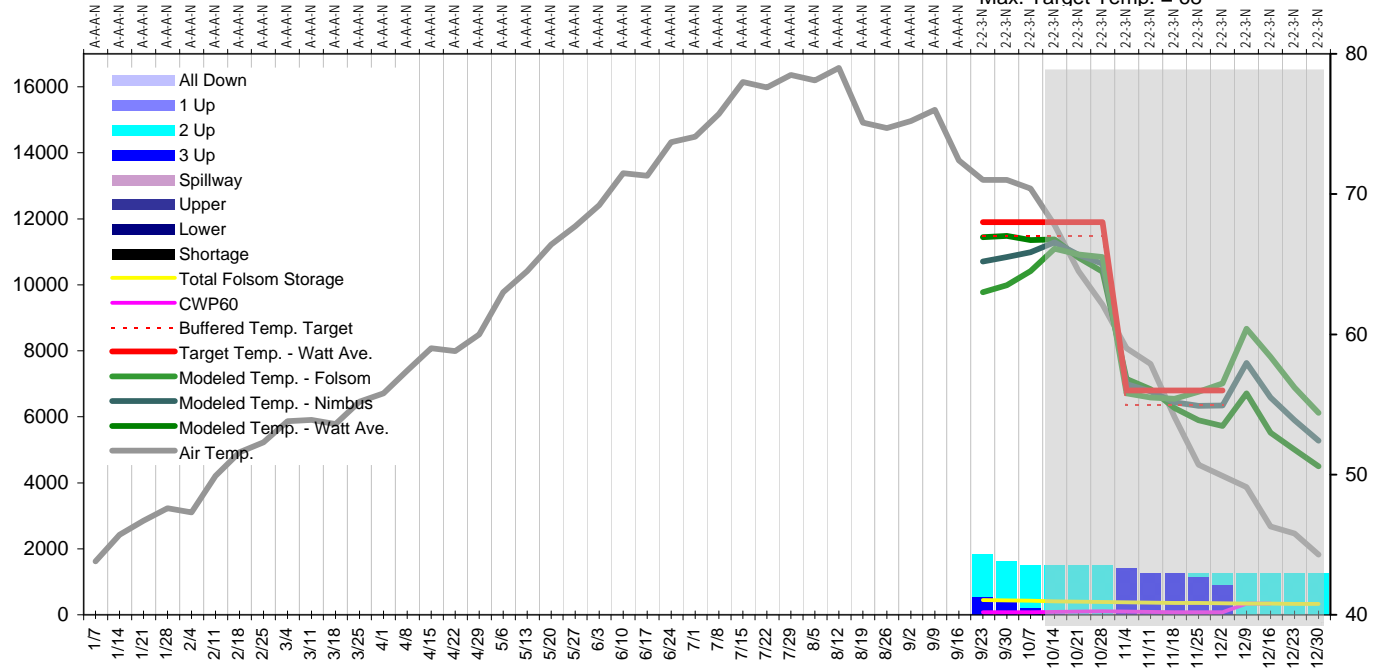
Temperature (°F)

Sep 2020 Updated 90%-Exceedance Outlook

Temperature Schedule = 1
 9/30 - CWP<60° (TAF, Constraint = 0) = 79
 9/30 - Folsom Storage (TAF) = 436
 Number of Excursions = 3
 Max. Target Temp. = 68°

USBR Pred.

Release (cfs) / Volume (TAF)



Date

Temperature (°F)

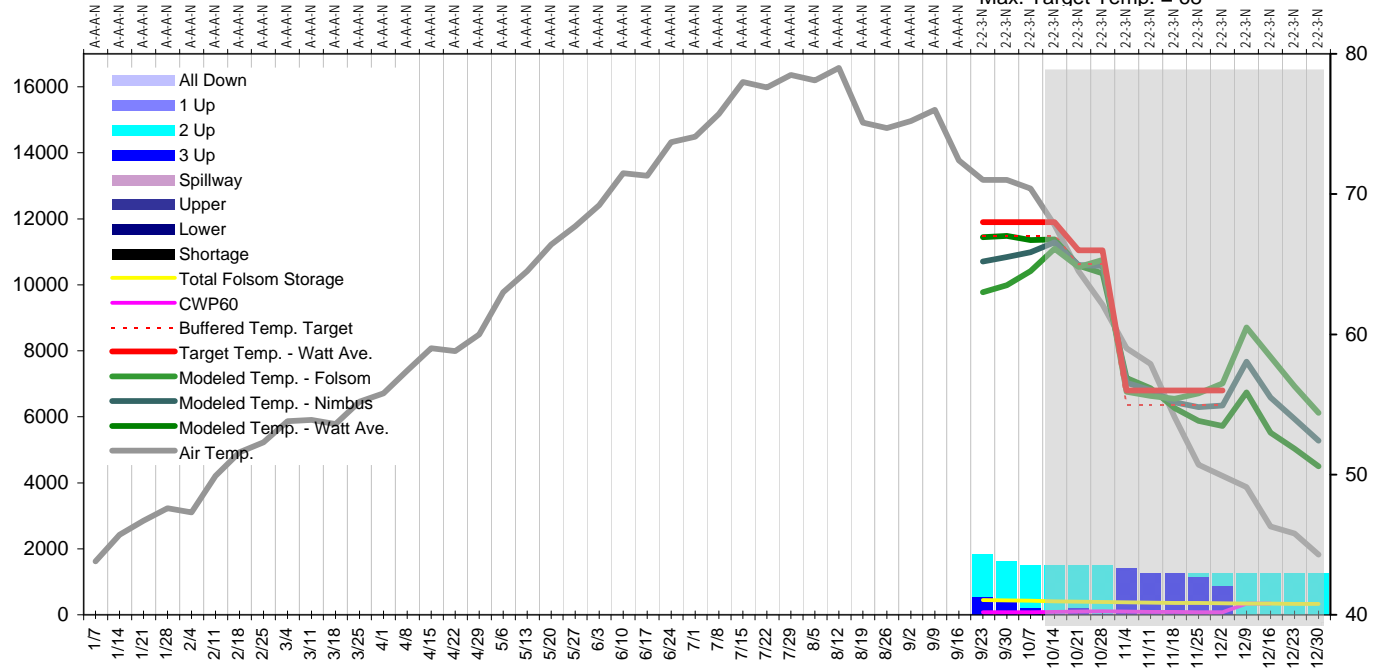
Sep 2020 Updated 90%-Exceedance Outlook

Temperature Schedule = 1
 9/30 - CWP<60° (TAF, Constraint = 0) = 79
 9/30 - Folsom Storage (TAF) = 436
 Number of Excursions = 3

USBR Pred.

Max. Target Temp. = 68°

Release (cfs) / Volume (TAF)



Date

Temperature (°F)