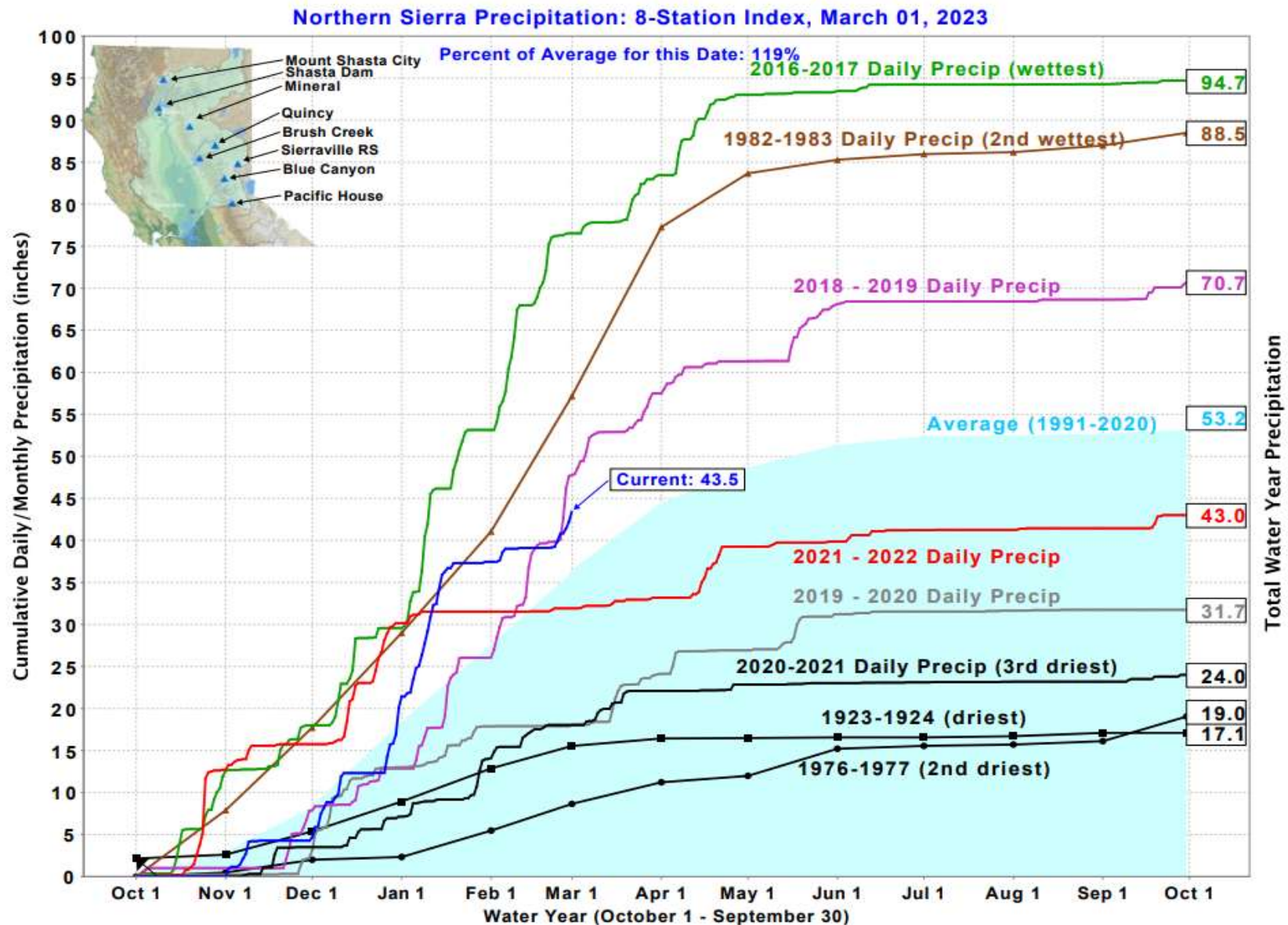


CVP Water Supply Briefing

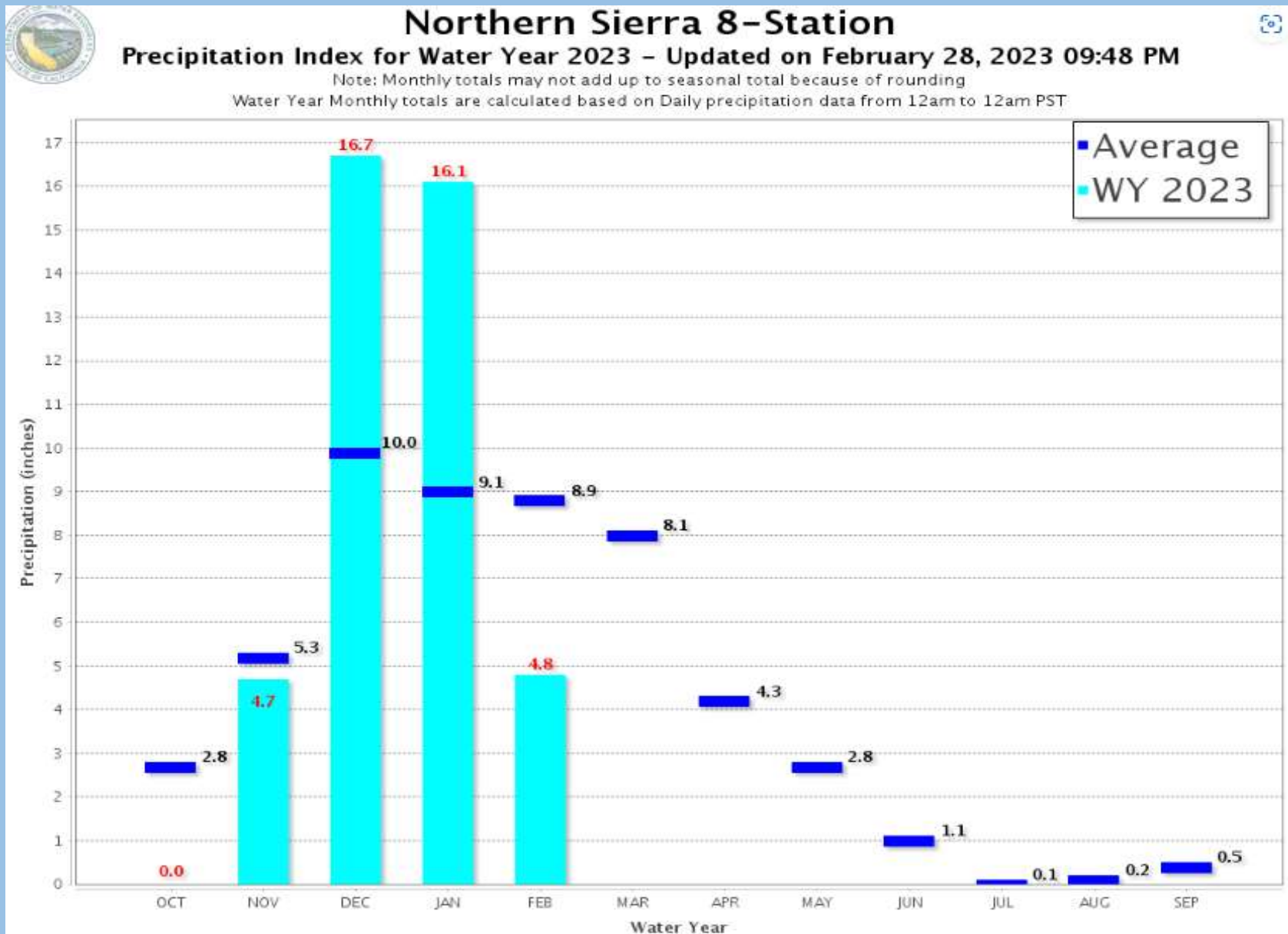
March 2, 2023



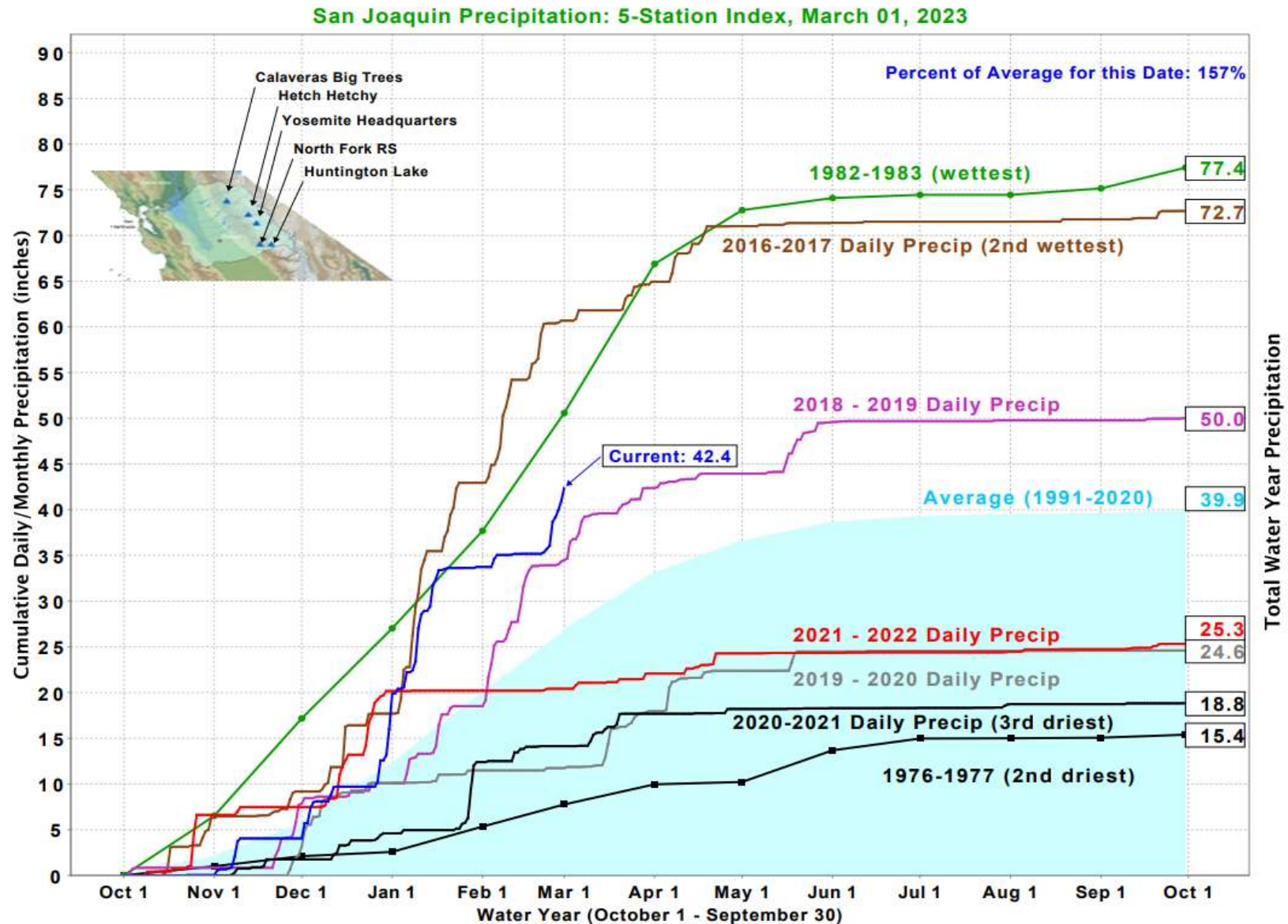
Precipitation Index – Northern Sierra



Precipitation Index – Northern Sierra



Precipitation Index – San Joaquin



Precipitation Index – San Joaquin

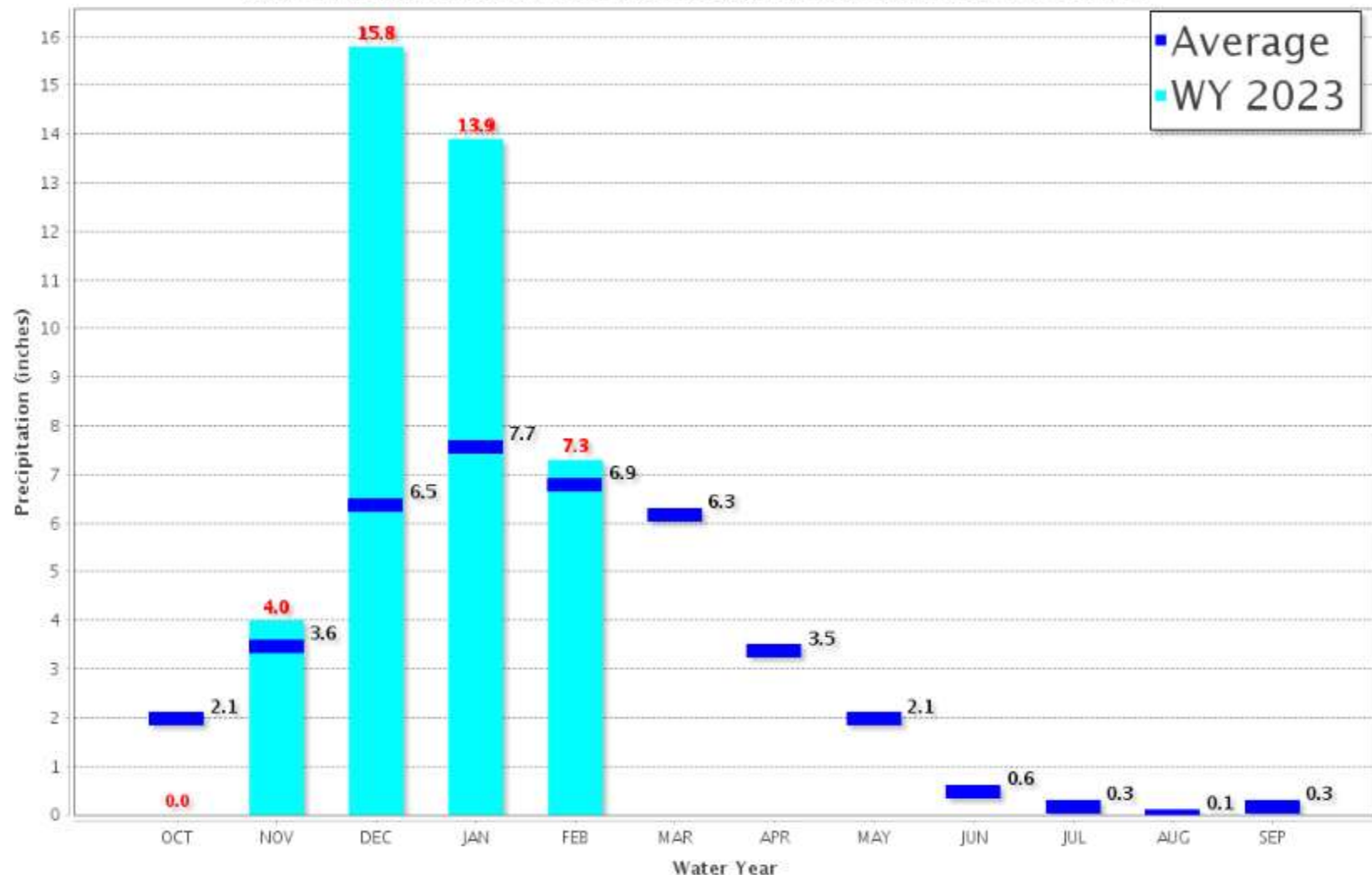


San Joaquin 5-Station

Precipitation Index for Water Year 2023 – Updated on February 28, 2023 09:49 PM

Note: Monthly totals may not add up to seasonal total because of rounding

Water Year Monthly totals are calculated based on Daily precipitation data from 12am to 12am PST

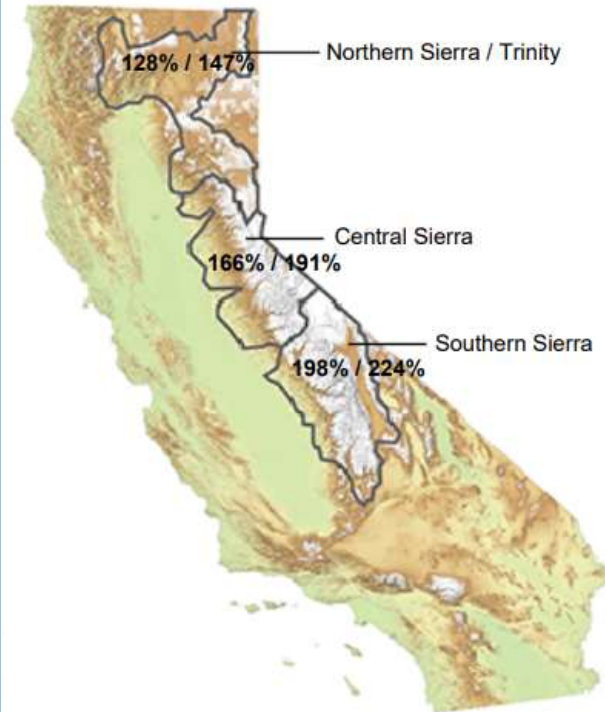


Current California Snowpack



CURRENT REGIONAL SNOWPACK FROM AUTOMATED SNOW SENSORS

% of April 1 Average / % of Normal for This Date



NORTH	
Data as of February 28, 2023	
Number of Stations Reporting	30
Average snow water equivalent (Inches)	37.1
Percent of April 1 Average (%)	128
Percent of normal for this date (%)	147

CENTRAL	
Data as of February 28, 2023	
Number of Stations Reporting	49
Average snow water equivalent (Inches)	44.4
Percent of April 1 Average (%)	166
Percent of normal for this date (%)	191

SOUTH	
Data as of February 28, 2023	
Number of Stations Reporting	29
Average snow water equivalent (Inches)	43.3
Percent of April 1 Average (%)	198
Percent of normal for this date (%)	224

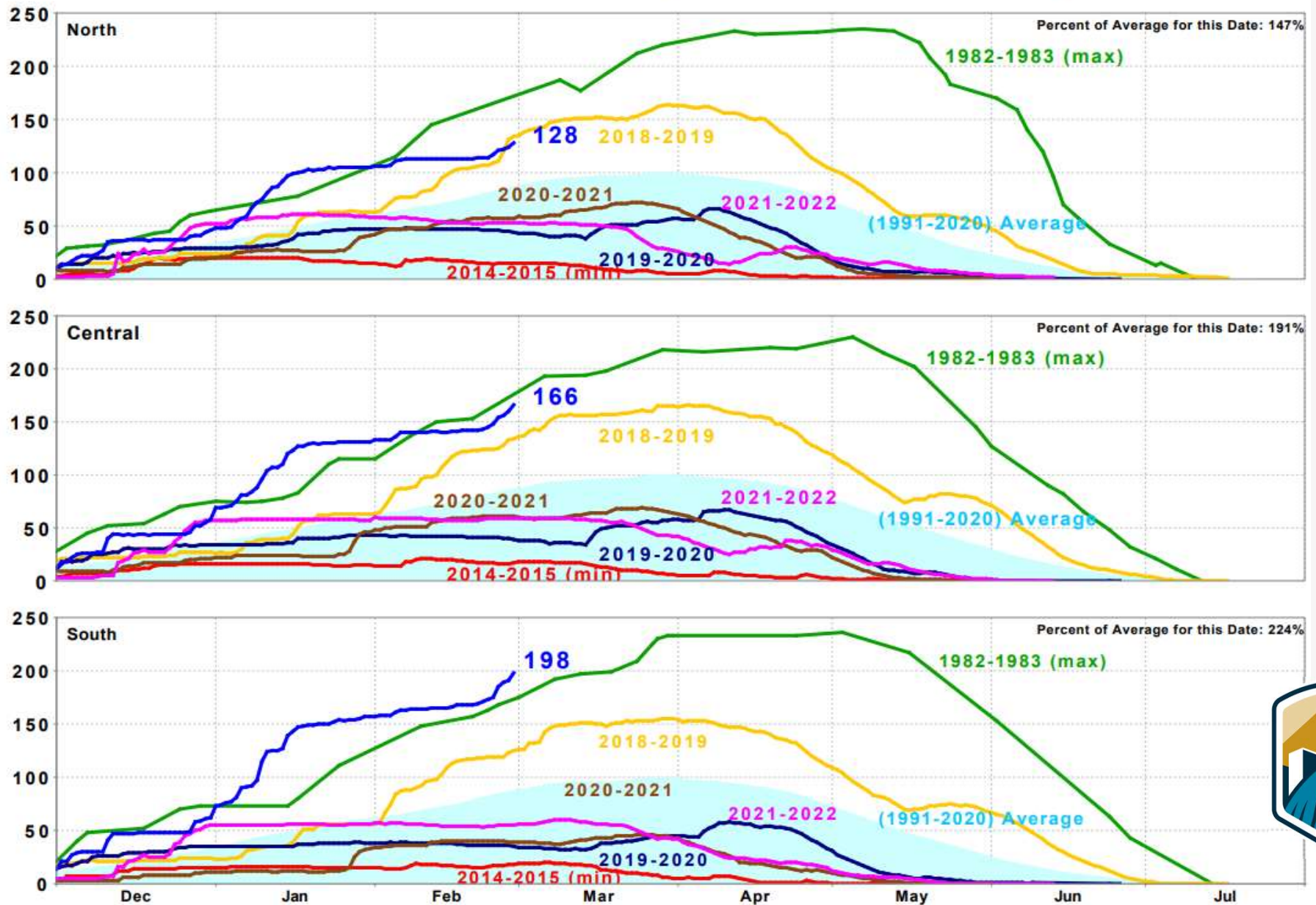
STATE	
Data as of February 28, 2023	
Number of Stations Reporting	108
Average snow water equivalent (Inches)	42.0
Percent of April 1 Average (%)	162
Percent of normal for this date (%)	186

Statewide Average: 162% / 186%



Snow Water Content

California Snow Water Content, February 28, 2023, Percent of April 1 Average

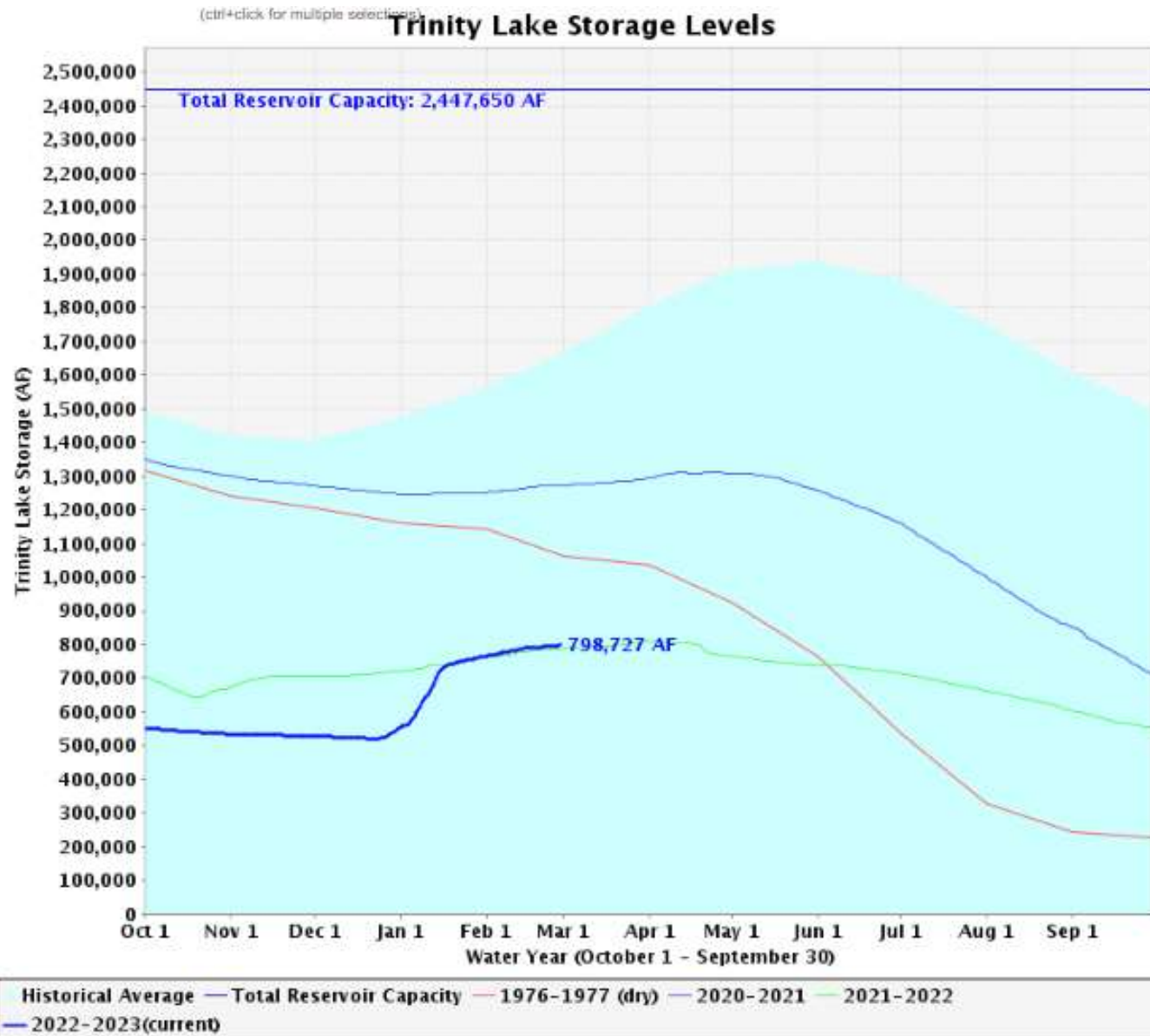


Statewide Percent of April 1: 162%

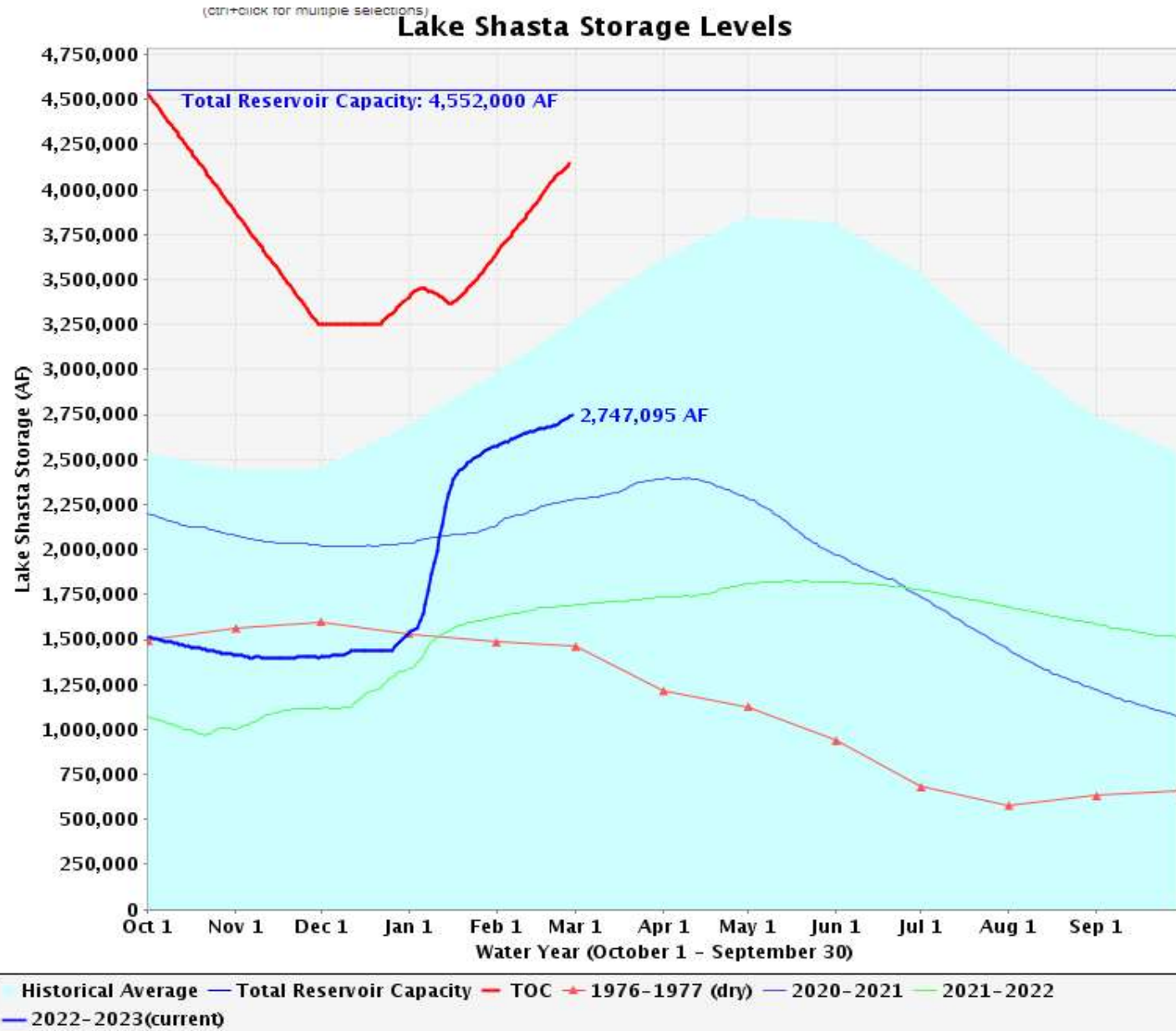
Statewide Percent of Average for Date: 186%



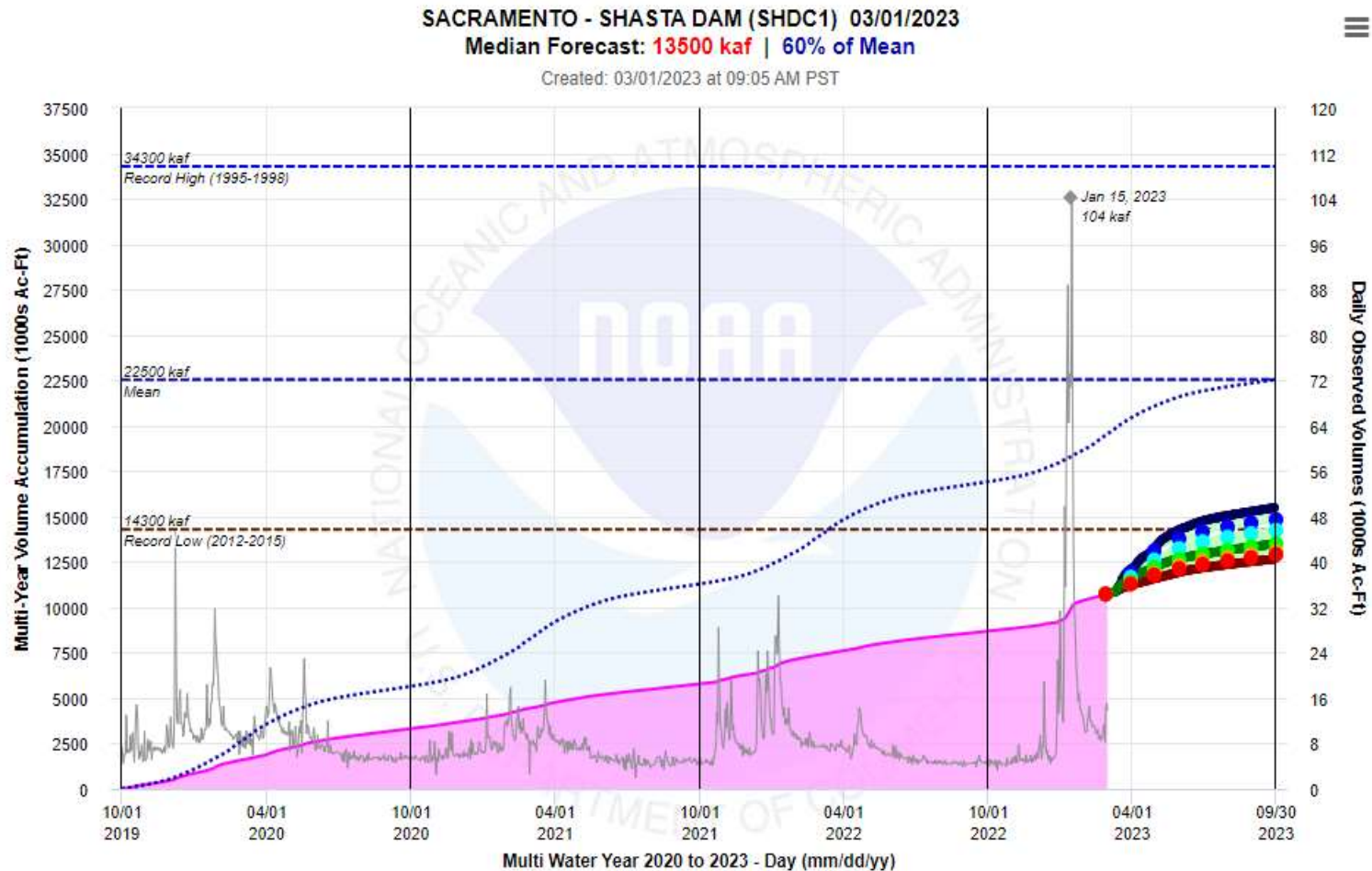
Trinity Storage



Shasta Storage



Shasta 2023 Multi-Year Accumulated Volume

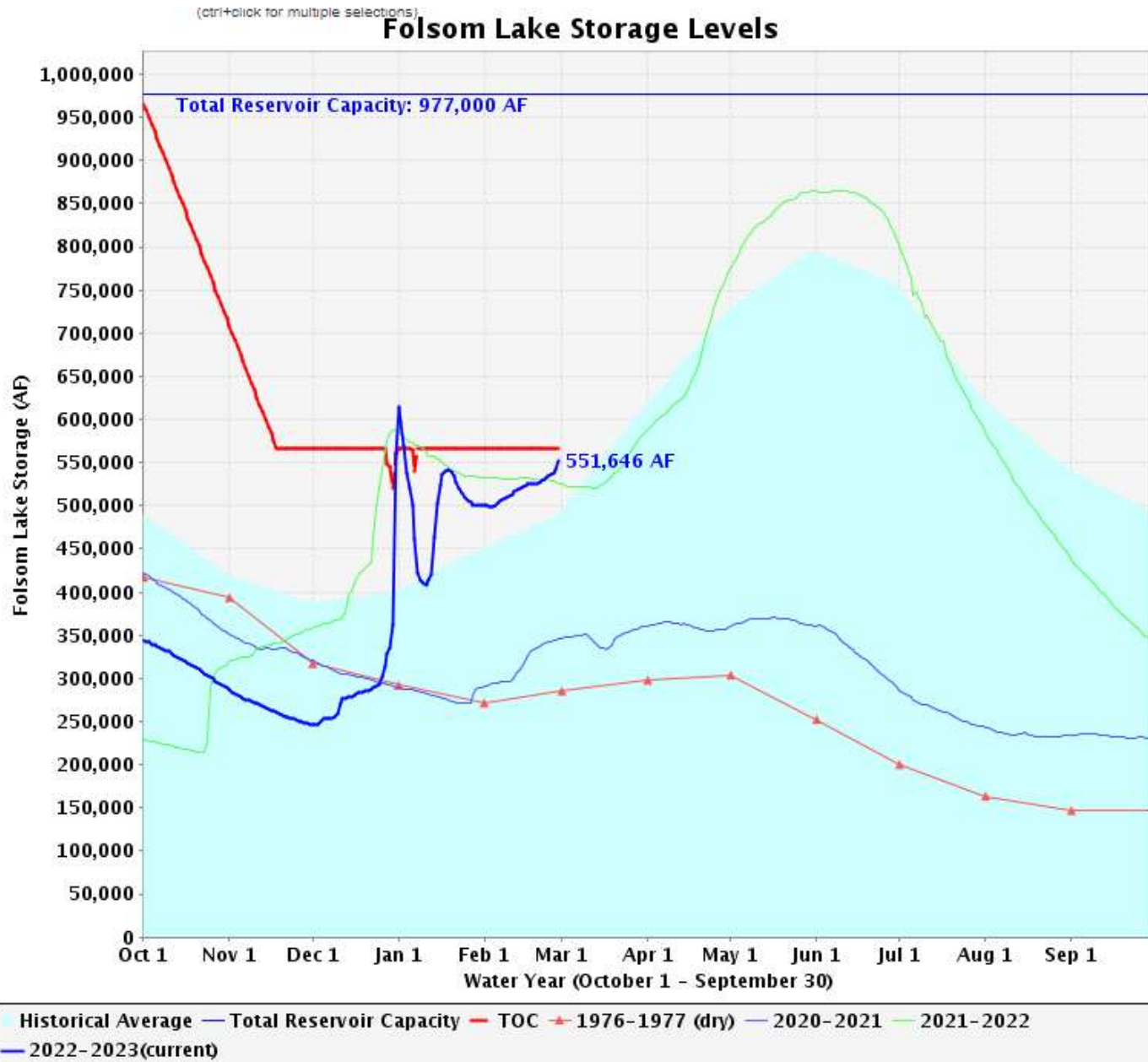


Observed to Date Percent of Mean: 55% (10700 kaf) Water Year to Date Mean: 19500 kaf
 This product only considers meteorological uncertainty and does not account for hydrologic uncertainty.
 Means/medians are based on the period of Water Years 1980 through 2021.
 Legend entries below can be toggled on/off.

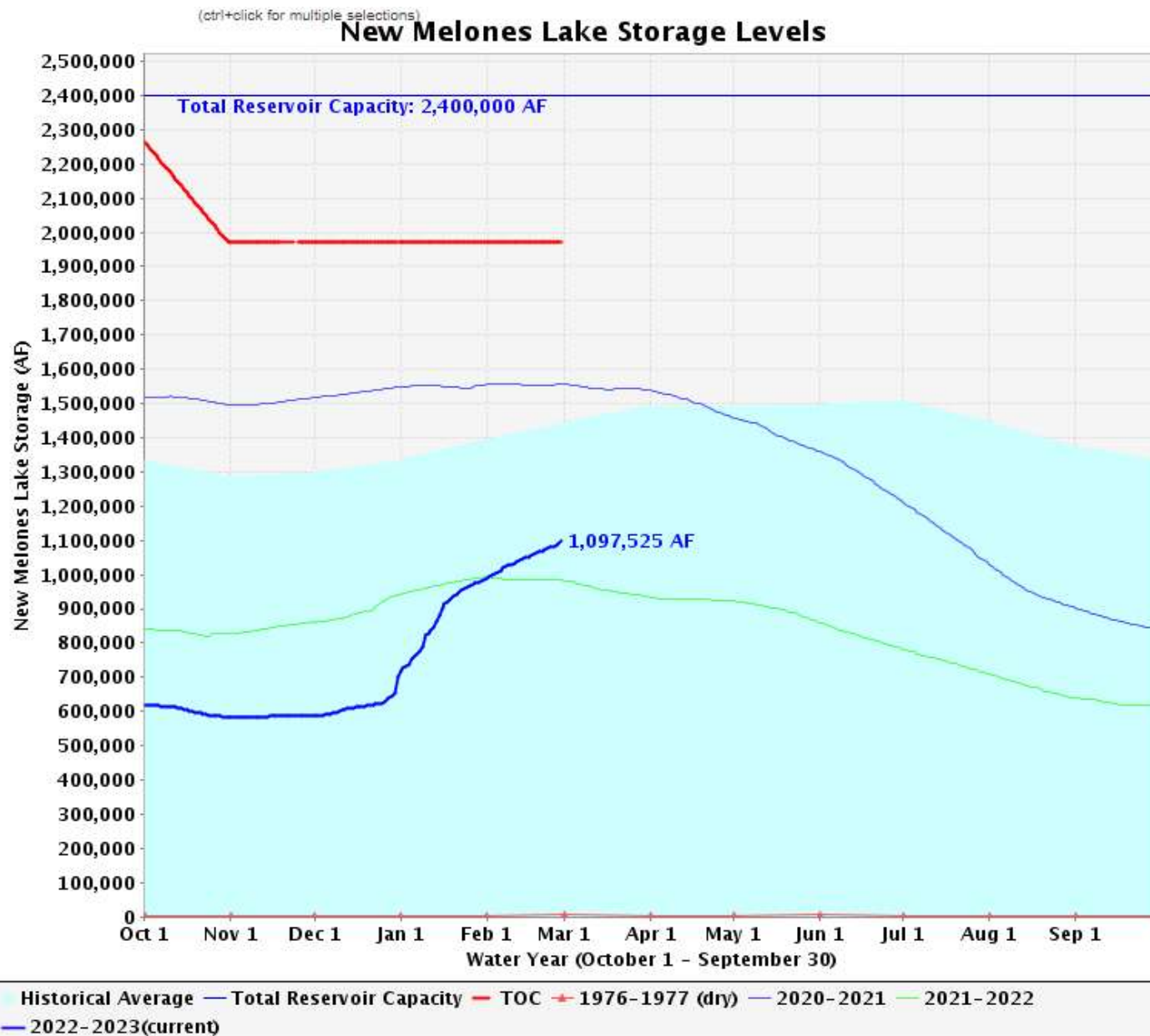
- | | | | |
|------------------|-------------------------------|----------------------------------|-------------------------------|
| ● 90%: 12900 kaf | ● 75%: 13100 kaf | ● 50%: 13500 kaf | ● 25%: 14200 kaf |
| ● 10%: 14800 kaf | — Min Trace (2008: 12700 kaf) | — Median Trace (1987: 13500 kaf) | — Max Trace (1995: 15500 kaf) |
| — Volume Med | — Volume Mean | — Traces (1980-2021) | — Record High |
| — Record Low | ● Accum to Date Mean | ◆ Accum to Date Median | — Accum to Date Obs |
| — Daily Obs | ◆ Obs Peak | | |



Folsom Storage



New Melones Storage



Precipitation Forecasts

Precipitation (in)
during the period:

Wed, 01 MAR 2023 at 12Z

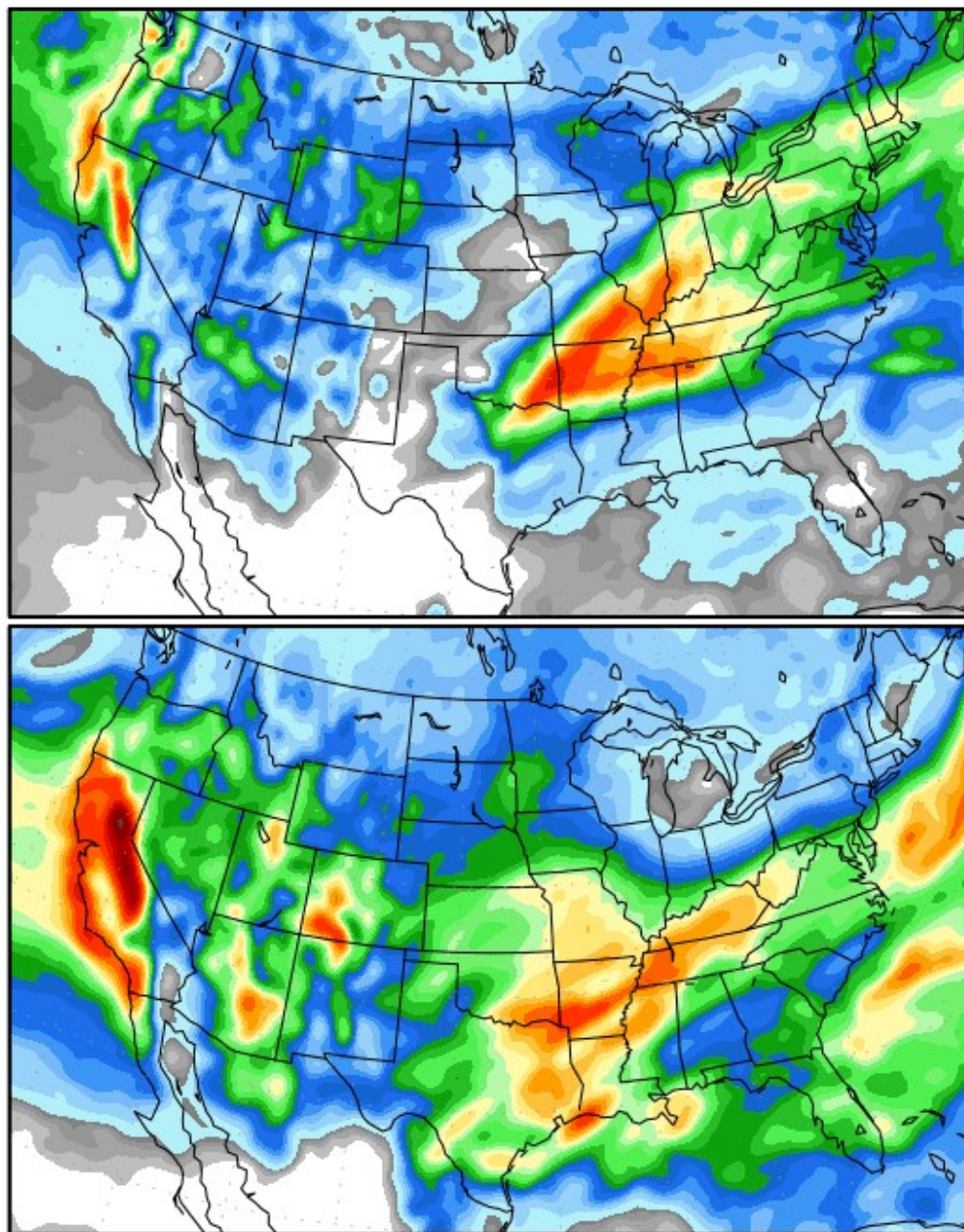
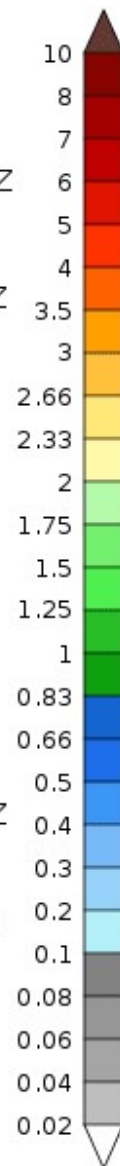
-to-

Thu, 09 MAR 2023 at 12Z

Thu, 09 MAR 2023 at 12Z

-to-

Fri, 17 MAR 2023 at 12Z



Questions?



Estimated CVP Operations 90% Exceedance Chipps Island Operations

Storages

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

Facility	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
Trinity	764	807	923	1007	986	995	970	912	860	844	829	823	832
Elevation		2232	2246	2256	2254	2255	2252	2245	2239	2237	2235	2234	2235
Whiskeytown	209	206	206	238	238	238	238	238	238	206	206	206	206
Elevation		1199	1199	1209	1209	1209	1209	1209	1209	1199	1199	1199	1199
Shasta	2570	2741	3071	3214	3165	2904	2517	2181	1996	1929	1963	2022	2139
Elevation		996	1011	1017	1015	1003	985	968	957	953	955	959	965
Folsom	501	539	746	889	941	799	677	552	515	448	386	316	271
Elevation		421	444	458	463	449	437	423	418	410	401	390	382
New Melones	987	1093	1191	1159	1216	1275	1225	1169	1140	1093	1096	1101	1103
Elevation		955	967	963	971	978	972	965	961	955	955	956	956
Federal San Luis	497	698	840	885	799	472	223	80	87	141	126	221	382
Elevation													
Total	5528	6083	6976	7392	7345	6682	5849	5131	4837	4661	4607	4689	4933

State End of the Month Reservoir Storage (TAF/Feet)

Facility	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
Oroville	2298	2492	2744	2992	3111	3091	2497	1972	1661	1570	1446	1382	1493
Elevation		826	845	864	872	871	826	780	749	738	724	716	730
State San Luis	781	939	1049	944	836	639	673	877	1016	835	751	736	791
Elevation													
Total San Luis (TAF)	1278	1637	1889	1829	1635	1111	896	957	1103	976	877	958	1173
Elevation		511	532	527	511	464	442	448	463	450	440	449	470

Monthly River Releases (TAF/cfs)

Facility	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
Trinity		17	18	80	180	47	28	53	52	23	18	18	18
cfs		300	300	1,347	2,924	783	450	857	870	373	300	300	300
Clear Creek		11	12	17	12	19	9	9	9	12	12	12	12
cfs		200	200	284	200	318	150	150	150	200	200	200	200
Sacramento		180	200	268	387	482	566	492	339	283	193	200	200
cfs		3250	3250	4500	6300	8100	9200	8000	5700	4600	3250	3250	3250
American		222	154	178	277	300	221	214	119	108	104	123	108
cfs		4000	2500	3000	4500	5037	3593	3486	2003	1752	1750	2007	1750
Stanislaus		13	12	91	75	22	15	15	15	48	12	12	14
cfs		229	200	1537	1226	363	250	250	250	774	200	200	226
Feather		53	64	62	65	67	504	467	364	77	74	77	58
cfs		950	1040	1040	1060	1125	8200	7600	6120	1250	1250	1250	950

Trinity Diversions (TAF)

Facility	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
Carr PP		0	1	34	6	17	10	11	10	0	10	9	5
Spring Crk. PP		4	8	0	0	0	0	0	0	21	0	0	0

Delta Summary (TAF)

Facility/Location/Metric	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
Tracy		235	260	238	225	110	262	250	250	205	80	160	225
USBR Banks		0	0	0	0	0	26	26	26	0	0	0	0
Contra Costa		13.7	10.5	9.5	9.5	9.5	7.4	8.3	9.5	10.5	12.6	13.8	13.7
Total USBR		249	271	247	234	120	295	284	286	216	93	174	239
State Export		240	220	46	40	26	286	428	396	102	171	190	155
Total Export		489	491	293	274	146	581	712	682	318	264	364	394
COA Balance		18	18	18	18	124	0	0	19	0	0	0	0
Vernalis TAF		303	255	457	397	145	106	107	104	107	74	75	77
Vernalis cfs		5452	4153	7689	6454	2431	1730	1747	1746	1734	1242	1225	1251
Old/Middle R. calc. cfs		-4,914	-4,865	-918	-1,113	-1,379	-7,094	-8,726	-8,625	-3,787	-3,443	-4,596	-4,959
Computed DOI cfs		19883	15714	13969	12054	8253	4994	3497	3009	4002	4505	4506	7093
Excess Outflow		8483	4311	2858	2733	0	0	0	0	0	0	0	1090
% Export/Inflow		30%	34%	24%	23%	16%	50%	61%	67%	47%	44%	52%	49%
% Export/Inflow std.		45%	35%	35%	35%	35%	65%	65%	65%	65%	65%	65%	65%

Hydrology

Water Year Inflow (TAF)	Trinity	Shasta	Folsom	New Melones
Year to Date + Forecasted	975	4,124	3,087	1447
% of mean	81%	74%	113%	137%

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

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CVP releases or export values represent monthly averages.

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

Estimated CVP Operations 50% Exceedance

Storages

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

Facility	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
Trinity	764	829	1011	1089	1103	1058	995	937	872	857	865	902	965
Elevation		2235	2256	2265	2266	2262	2255	2248	2240	2238	2239	2244	2251
Whiskeytown	209	206	206	238	238	238	238	238	238	206	206	206	206
Elevation		1199	1199	1209	1209	1209	1209	1209	1209	1199	1199	1199	1199
Shasta	2570	3037	3563	4016	4199	4017	3657	3364	3206	3037	3096	3233	3567
Elevation		1009	1031	1048	1055	1048	1035	1023	1017	1009	1012	1018	1031
Folsom	501	522	754	887	960	949	813	732	684	510	454	413	443
Elevation		419	445	458	464	464	451	443	438	418	411	405	409
New Melones	987	1091	1141	1171	1279	1381	1373	1326	1306	1265	1287	1311	1341
Elevation		955	961	965	978	990	989	984	981	976	979	982	985
Federal San Luis	497	682	815	858	786	564	273	104	99	202	355	543	691
Elevation													
Total	5528	6367	7490	8259	8565	8209	7350	6701	6403	6076	6261	6607	7213

State End of the Month Reservoir Storage (TAF/Feet)

Facility	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
Oroville	2298	2643	3001	3300	3532	3450	2983	2524	2229	2179	2142	2188	2429
Elevation		838	864	885	900	895	863	828	804	799	796	800	821
State San Luis	781	889	1062	898	736	688	669	699	689	486	329	252	263
Elevation													
Total San Luis (TAF)	1278	1571	1877	1756	1522	1253	942	802	787	688	683	795	954
Elevation		505	531	521	501	477	447	432	431	420	419	432	448

Monthly River Releases (TAF/cfs)

Facility	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
Trinity		17	18	80	258	126	68	53	52	23	18	18	18
cfs		300	300	1,347	4,189	2,120	1,102	857	870	373	300	300	300
Clear Creek		11	12	17	12	19	9	9	9	12	12	12	12
cfs		200	200	284	200	318	150	150	150	200	200	200	200
Sacramento		180	307	297	307	476	584	492	357	277	238	246	277
cfs		3250	5000	5000	5000	8000	9500	8000	6000	4500	4000	4000	4500
American		389	307	327	400	327	277	195	149	199	149	154	123
cfs		7000	5000	5500	6500	5500	4500	3172	2500	3236	2500	2500	2000
Stanislaus		13	93	83	96	56	18	18	18	49	12	12	14
cfs		236	1521	1400	1555	940	300	300	300	797	200	200	232
Feather		53	197	303	191	178	450	471	385	77	74	77	77
cfs		950	3200	5100	3100	3000	7320	7660	6470	1260	1250	1250	1250

Trinity Diversions (TAF)

Facility	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
Carr PP		3	-25	75	8	23	19	20	19	3	5	2	3
Spring Crk. PP		40	0	50	10	10	10	10	10	25	0	5	25

Delta Summary (TAF)

Facility/Location/Metric	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
Tracy		235	260	250	258	255	265	260	255	260	255	260	220
USBR Banks		0	0	0	0	0	31	31	31	0	0	0	0
Contra Costa		14.0	12.7	12.7	12.7	9.8	11.1	12.7	14.0	4.6	2.8	2.7	14.0
Total USBR		249	273	263	271	265	307	304	300	265	258	263	234
State Export		245	350	81	85	331	410	410	395	250	250	250	180
Total Export		494	623	344	356	596	717	714	695	515	508	513	414
COA Balance		18	18	18	18	18	18	-1	-1	157	158	158	158
Vernalis TAF		303	575	805	833	633	254	110	107	127	99	103	109
Vernalis cfs		5459	9362	13537	13552	10639	4139	1797	1796	2066	1662	1680	1778
Old/Middle R. calc. cfs		-4,984	-4,177	1,050	1,052	-3,514	-7,710	-8,721	-8,777	-6,106	-6,415	-6,256	-4,976
Computed DOI cfs		38704	37236	37233	27394	16406	8150	4002	4522	4002	4505	9289	17601
Excess Outflow		27304	25832	25836	15991	5060	146	0	1513	0	0	4783	11599
% Export/Inflow		18%	21%	13%	16%	33%	47%	58%	60%	58%	61%	47%	28%
% Export/Inflow std.		45%	35%	35%	35%	35%	65%	65%	65%	65%	65%	65%	65%

Hydrology

Water Year Inflow (TAF)	Trinity	Shasta	Folsom	New Melones
Year to Date + Forecasted	1238	5,311	3,944	1745
% of mean	102%	96%	145%	165%

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