



Water Resources ♦ Flood Control ♦ Water Rights

## MEMORANDUM

January 6, 2022

**TO:** Reclamation District No. 2084  
**FROM:** MBK Engineers  
**SUBJECT:** **January 2022 Engineer's Report**

Trustees:

Described below are the items constituting the engineer's report to be discussed at your scheduled January 6, 2022 meeting.

**2020-21 Subventions** - MBK performed the annual Subventions Inspection with DWR and CDFW on November 18. We anticipate DWR claim review to be processed soon. Expected claim payment to the District should be late Spring, May-June 2022. We will know more in the coming months. The expected reimbursement if there are no deductions would be roughly \$71,500.

**Freeboard Levee Project, North Levee** – We are purchasing reflector paddles to install at the south end of the waterside berm, adjacent to the Liberty Island ferry landing. We plan to install these paddles by the end of the month.

**Flood Season Levee Patrol and Monitoring** – December 2021 saw a significant increase in rainfall in the valley and snow accumulation in the sierras. The Northern California 8-station precip. index shows we are already above the 2020-21 record for that water year and close to the 2019-20 water year. There are no significant storms projected in the coming weeks. We plan to make a levee inspection this month when we inspect the RD 536 emergency site.

**Winter 2021- Spring 2021 Monitoring-Maintenance Activities –**

- 1) Animal Control, as necessary
- 2) Roadway Maintenance, as necessary
- 3) Vegetation Control, spraying as necessary
- 4) Levee Patrol, monitor conditions, evaluate levees for spring project potential

**RD 536 Emergency Update** – RD 536 plans to coordinate plans with their Incident Commander and District Engineer this month and prepare to decide next steps for initial flood stability work and roadway repair. Other option may be to deploy plastic to protect the site. Recent Board of Trustee changes have delayed actions.

**North Delta Barriers** – The state is working hard to get Corps of Engineers 408 approval. To support its request to the Corps, DWR has been surveying the barrier locations recommended by locals and compiling design concepts. The DWR is also communicating with Ryer Island landowners downstream of the barrier along Miner Slough.

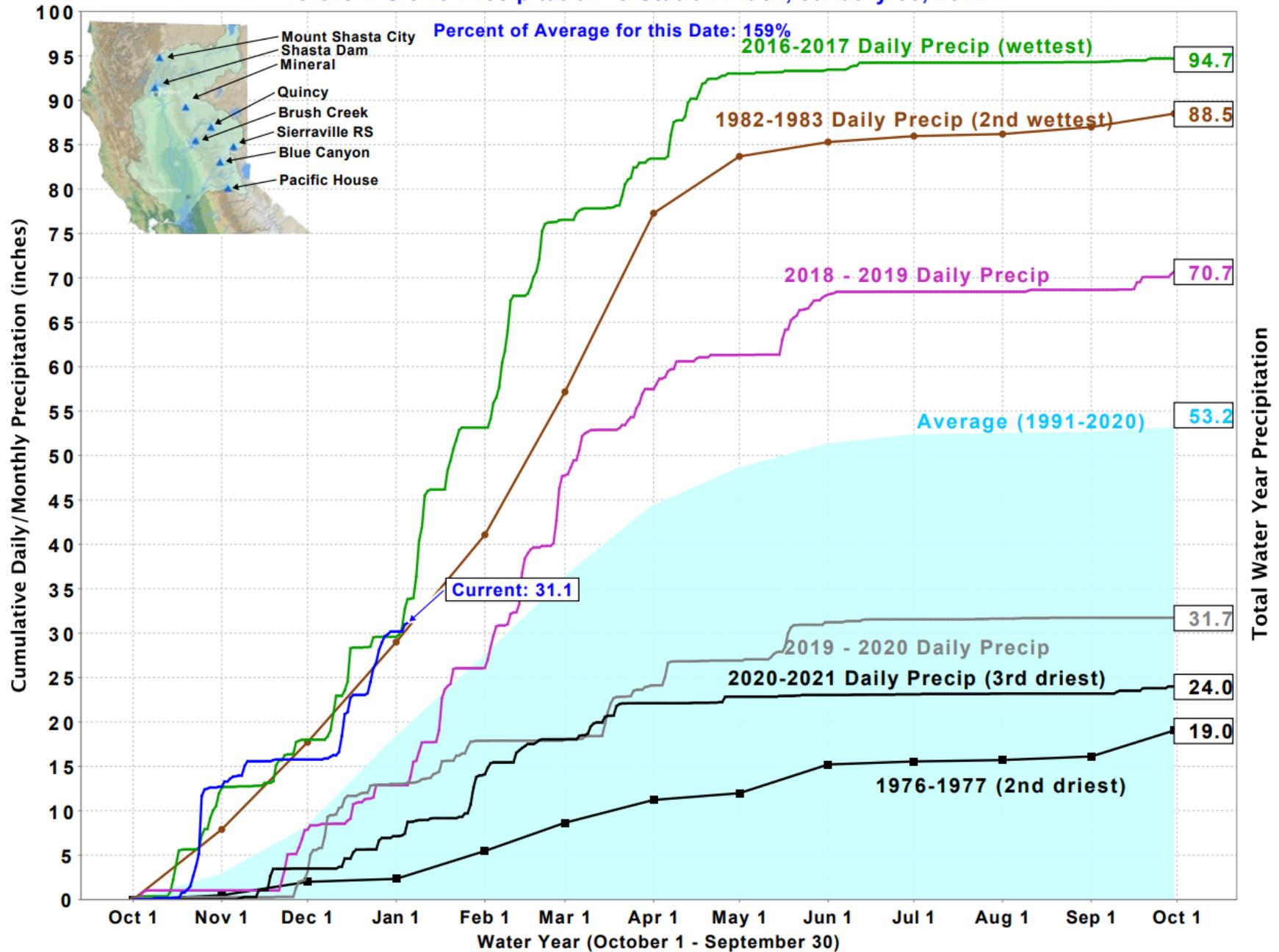
**DCA Stakeholder Engagement Committee** – The DCA SEC met on December 8. It is likely this will be that last meeting of the committee. Issues have come up as DWR develops its EIR that have made it hard for committee members to continue. There are no stakeholder meetings scheduled for January.

**DSC Delta Adapts** – The DSC has begun its work on the Delta Adapts Adaptation Strategy. A stakeholder meeting was held November 16. Out of the 65 attendees at the stakeholder meeting, only 2 represented Delta landowners. We brought up the fact that if Delta landowners/farmers are not a significant part of the process, the Adaptation Strategy will be another report that sits on the shelf and gathers dust. The next step is to form focus groups in the areas of Flood Control, Water Supply, Ecosystem and Agriculture. These focus groups began meeting in December. In addition, the DSC is taking to heart our concern about landowner participation and will be adding a focus group of landowners to discuss all 4 focus areas. It is anticipated that this group will be formed around February 2022. We have been asked to help generate interest in landowners participating in this group.

Thanks,

A handwritten signature in black ink, appearing to read "Michelle" followed by a stylized flourish.

### Northern Sierra Precipitation: 8-Station Index, January 05, 2022



Archived Report Products:

2022-01-05



## ➔ Daily Reservoir Storage Summary

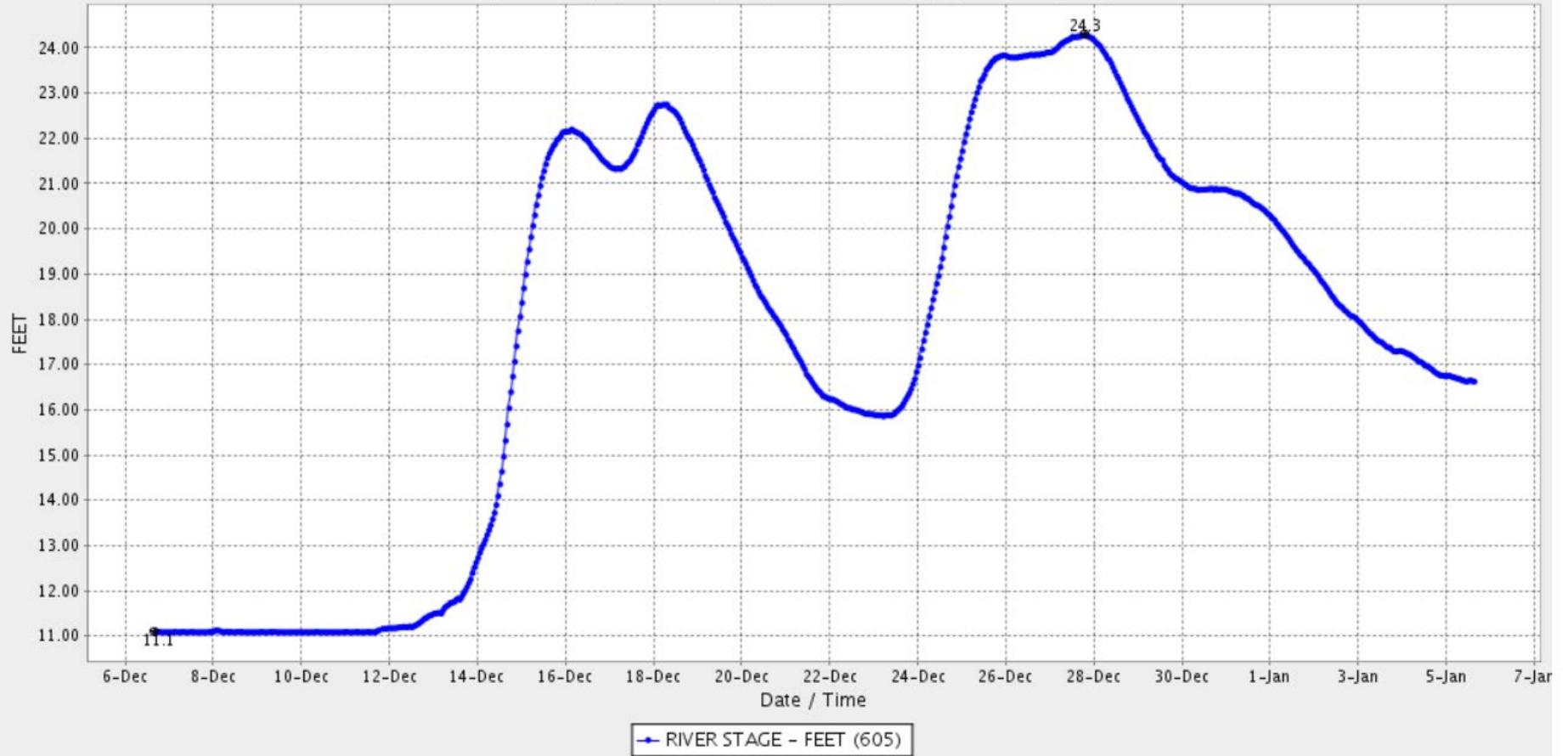
ENDING AT MIDNIGHT - 01/04/2022

FOR SELECTED RESERVOIRS IN NORTHERN AND SOUTHERN CALIFORNIA

Report generated: January 05, 2022 13:05

WATER STORAGE											
Reservoir Name	StaID	Capacity (AF)	Elevation (FT)	Storage (AF)	Storage Change	% of Capacity	Average Storage	% of Average	Outflow (CFS)	Inflow (CFS)	Storage-Year Ago This Date
<b>TRINITY RIVER</b>											
TRINITY LAKE	CLE	2,447,650	2,220.36	722,443	1,359	30	1,478,901	49	319	1,004	1,246,452
WHISKEYTOWN	WHI	241,100	1,198.12	204,563	-1,148	85	202,904	101	1,007	428	205,947
LEWISTON	LEW	14,660	1,901.57	14,337	45	98	13,939	103	351	374	14,472
<b>RUSSIAN RIVER</b>											
SONOMA(WARM SPRINGS)	WRS	381,000	408.36	148,877	979	39	216,464	69	---	---	158,774
MENDOCINO (COYOTE)	COY	122,400	720.65	42,340	393	35	63,515	67	---	---	28,206
<b>SACRAMENTO RIVER</b>											
SHASTA	SHA	4,552,000	915.92	1,369,444	19,157	30	2,713,016	50	1,847	11,536	2,049,273
KESWICK	KES	23,772	583.28	21,453	-334	90	21,239	101	3,306	3,139	21,122
<b>FEATHER RIVER</b>											
OROVILLE	ORO	3,537,577	718.51	1,401,384	17,617	40	1,876,521	75	146	9,070	1,234,069
ANTELOPE	ANT	22,566	4,992.62	14,797	22	66	16,959	87	---	---	13,065
FRENCHMAN	FRD	55,477	5,568.71	29,965	21	54	30,841	97	---	---	35,525
LAKE DAVIS	DAV	83,000	5,763.10	43,805	55	53	52,428	84	---	---	51,122
<b>YUBA RIVER</b>											
BULLARDS BAR	BUL	966,000	1,852.20	547,061	4,908	57	603,678	91	16	2,460	522,638
ENGLEBRIGHT	ENG	70,000	520.47	64,793	230	93	65,057	100	---	---	64,211
<b>AMERICAN RIVER</b>											
FOLSOM	FOL	977,000	425.79	576,693	-2,501	59	405,612	142	4,801	3,540	287,293

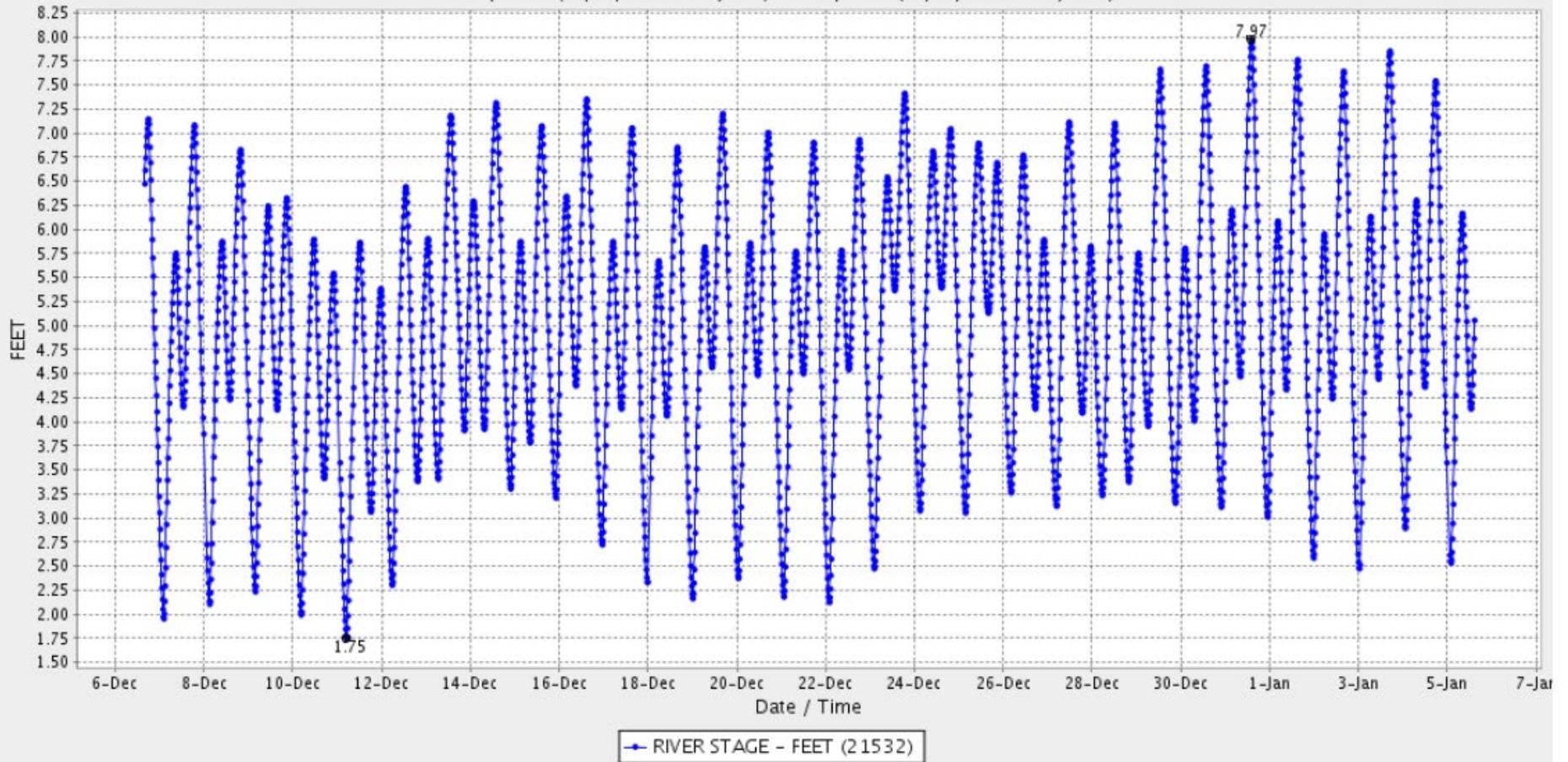
**SACRAMENTO R @ FREMONT WEIR(CREST 32.0') ( FRE )**  
Date from 12/06/2021 15:40 through 01/05/2022 15:40 Duration : 30 days  
Max of period : (12/27/2021 19:00, 24.3) Min of period: (12/06/2021 16:00, 11.1)



### LIBERTY ISLAND @ APPROX CNTR S END ( LIB )

Date from 12/06/2021 15:41 through 01/05/2022 15:41 Duration : 30 days

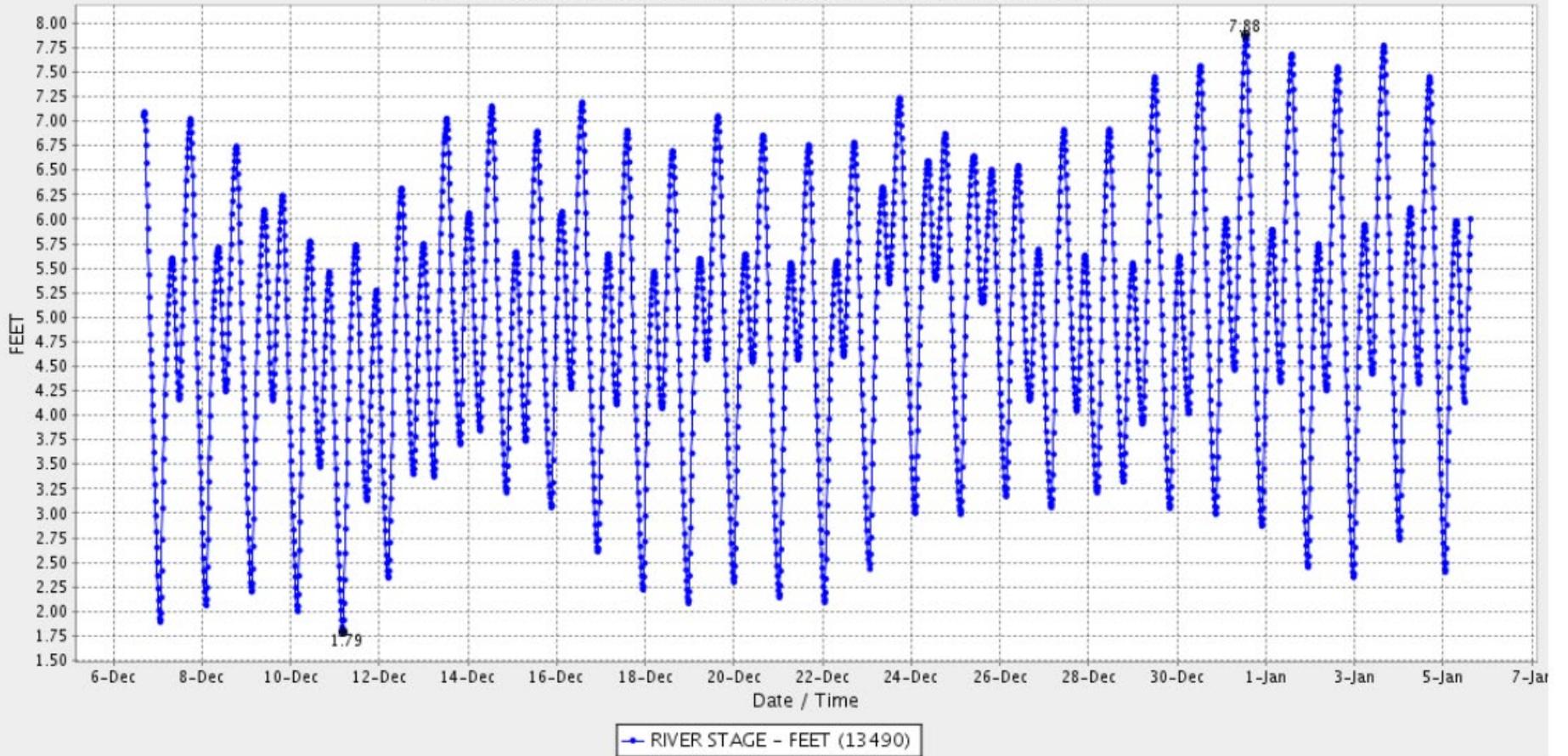
Max of period : (12/31/2021 14:00, 7.97) Min of period : (12/11/2021 04:45, 1.75)



### SACRAMENTO RIVER AT RIO VISTA (USGS) ( SRV )

Date from 12/06/2021 15:46 through 01/05/2022 15:46 Duration : 30 days

Max of period : (12/31/2021 13:00, 7.88) Min of period: (12/11/2021 04:00, 1.79)



Archived Report Products:

2021-12-05



## ➔ Daily Reservoir Storage Summary

ENDING AT MIDNIGHT - 12/04/2021

FOR SELECTED RESERVOIRS IN NORTHERN AND SOUTHERN CALIFORNIA

Report generated: December 05, 2021 13:05

WATER STORAGE											
Reservoir Name	StaID	Capacity (AF)	Elevation (FT)	Storage (AF)	Storage Change	% of Capacity	Average Storage	% of Average	Outflow (CFS)	Inflow (CFS)	Storage-Year Ago This Date
<b>TRINITY RIVER</b>											
TRINITY LAKE	CLE	2,447,650	2,218.14	706,713	-71	29	1,413,008	50	417	385	1,268,252
WHISKEYTOWN	WHI	241,100	1,198.61	206,006	-147	85	204,147	101	282	211	205,859
LEWISTON	LEW	14,660	1,901.48	14,270	30	97	13,988	102	431	446	14,494
<b>RUSSIAN RIVER</b>											
SONOMA(WARM SPRINGS)	WRS	381,000	392.39	120,741	-98	32	197,505	61	74	26	163,914
MENDOCINO (COYOTE)	COY	122,400	701.97	21,024	59	17	53,501	39	29	60	30,809
<b>SACRAMENTO RIVER</b>											
SHASTA	SHA	4,552,000	895.69	1,116,774	-3,031	25	2,471,631	45	2,937	1,409	2,018,801
KESWICK	KES	23,772	584.01	21,896	-31	92	21,483	102	3,298	3,282	21,915
<b>FEATHER RIVER</b>											
OROVILLE	ORO	3,537,577	672.51	1,056,888	406	30	1,769,803	60	1,002	1,214	1,291,010
ANTELOPE	ANT	22,566	4,991.56	14,040	-7	62	16,313	86	---	---	13,817
FRENCHMAN	FRD	55,477	5,567.59	28,772	0	52	30,029	96	---	---	35,429
LAKE DAVIS	DAV	83,000	5,762.33	41,691	-54	50	51,464	81	---	---	51,641
<b>YUBA RIVER</b>											
BULLARDS BAR	BUL	966,000	1,817.78	439,803	-320	46	567,831	77	438	291	538,466
ENGLEBRIGHT	ENG	70,000	521.93	65,922	-351	94	63,737	103	---	---	67,264
<b>AMERICAN RIVER</b>											
FOLSOM	FOL	977,000	397.42	362,529	1,809	37	388,260	93	535	1,451	315,555