BUREAU OF RECLAMATION

Stanislaus Watershed Team

February 19, 2025

Members Attending

- USBR: Brian Willard, Cat Pien, Chase Ehlo, Kevin Thielen, Myrna Girald Perez, Peggy Manza, Spencer Marshall, Zarela Guerrero
- USFWS: J.D. Wikert, Erika Holcombe
- CDFW: Gretchen Murphey, Crystal Rigby, Steve Tsao, Travis Apgar
- NMFS: Barb Byrne, Rachel Alcala
- DWR: N/A
- SWRCB: Chris Carr, Yongxuan Gao
- PSMFC: Logan Day
- SSJID: Brandon Nakagawa
- FISHBIO: N/A
- Stockton East Water District (SEWD): N/A
- WAPA: Jeffrey Trow
- Attorney Offices: Lilliana Selke
- Kearns & West: Tom Fischer, Bethany Taylor

Action Items

- Gretchen Murphey, CDFW, and Zarela Guerrero, Reclamation, to draft a spring pulse flow plan.
    - SWT members to Email Gretchen Murphey if interested in participating in the shaping of the draft spring pulse flow.
- Reclamation and SWRCB to email Gretchen Murphey with information concerning Vernalis targets.

Announcements

- The SWT is celebrating J.D. Wikert's retirement from the USFWS at the February meeting.

Operations Update and Forecasts/Hydrology

New Melones Reservoir Update

- January 2025 conditions remained dry throughout the month.
- The Stanislaus received precipitation in early and mid-February. Precipitation peaked on 2/13/2025.
- The WIF was implemented to coincide with the mid-February storms.
- As of 2/19/2025, storage levels are approximately 1.92 MAF.
- Reclamation reported that hydropower testing was conducted at New Melones in mid-January.

Daily CVP Water Supply

- Accumulated precipitation is at 60% percent of average.
- Accumulated inflow as of 2/19/2025 is 200 TAF into New Melones, or 64% of average.

Forecast

- The current DWR Bulletin 120 for February lists the Stanislaus River as Critically Dry in the 75% and 90% exceedance level; at the 50% exceedance level, it is categorized as Dry.
- In both the 90% and 50% exceedance levels, the Top of Conservation will increase starting 3/20/2025. On the plots included in the handout, there is a conditional flood space between 3/20 and the end of May indicated by the space between the light blue and dark blue lines. In this space, Reclamation may have to enter flood releases pre-emptively if forecasts of snow melt would potentially push New Melones lake elevation above 1,088 feet, which is the spillway elevation. This is not anticipated.
- The forecast has been adjusted according to February conditions to date.
- Questions and Comments
    - USFWS asked what Reclamation is projecting for irrigation district usage, specifically at Oakdale, the south San Joaquin River, and Stockton East. [Oakdale and S. San Joaquin are entitled to 600 TAF of water, although

they don't always take the full amount. Stockton East Water District's contract entitles them to 155 TAF in wetter years and less in dryer years.]

- Reclamation responded that historical patterns of irrigation district diversions are incorporated. They are also waiting for coordination activities to determine how much water is expected to be diverted. This would come into effect in late February/early March, but for now, it presents some operational uncertainty.
    - USFWS added that if Reclamation, the Water Board, and the irrigation districts could develop a framework for water diversions, the process could be optimized for fish purposes and planned around ideal times for diverting the water. While this falls into the category of regulatory water management and water rights, it could have a major, positive impact on fish.

Tulloch

- The mid-February storm event resulted in side flows into Tulloch Dam.

Goodwin

- Goodwin Dam is maintaining a base flow of approximately 200 cfs. Releases are expected to remain stable until the WIF flows reach Goodwin. [The WIF ended on 2/18/2025.]

Water Temperature Updates

- Goodwin Canyon water temperatures are stable.
- Conditions downstream of Goodwin Canyon are typically cooler. The cold nights and recent storms are enforcing this pattern.
- Temperatures are suitable for fish at this time. Fish do not necessarily grow quickly in cold water, but their food needs are also fewer.
- Fish may experience a bit of a growth boost during the WIF as it pushes them up on the floodplain.
- Questions and Comments
    - NMFS shared minor updates for language in the meeting handout, regarding the 2024 Long-term Operations (LTO) Biological Opinion (BiOp). NMFS noted that the specifics about temperature thresholds that were used to assess take on the Stanislaus River have not changed.

        - Post-meeting update: Kearns & West has updated this language in the February 2025 meeting handout.
        - CDFW asked if '2024' is the official designation for the new BiOp. They have seen some recent information items from Reclamation labeled as 2022.
            - NMFS clarified that Reclamation underwent a re-initiation effort in 2021, so they do have some materials labeled accordingly. However, NMFS refers to their version of the BiOp according to the year of issue, hence, the 2024 BiOp.
            - USFWS added that the 2009 BiOp was the version that led to the formation of what is now called the SWT.
- NMFS acknowledged a commitment for the SWT to obtain more tools for temperature modeling.
    - Reclamation added that development for a Water Temperature Modeling Platform (WTMP) has been ongoing and is scheduled for rollout in Fall 2025. Reclamation is currently conducting a limited scope of facilitated adoption with two groups that have the selective withdrawal agreement. At the moment, Reclamation lacks sufficient resources to cover facilitated adoption for the Stanislaus River, but when the WTMP is publicly released in the fall, it will become available.
- USFWS recommended scheduling a presentation for the SWT focusing on temperature management in the Stanislaus River. Developing a thorough understanding of this river system will be helpful when the region faces the next multi-year drought.
- CDFW asked if the Orange Blossom gauge will be repaired based on the fact that it is specifically mentioned in the 2024 NMFS LTO BiOp Incidental Take Statement (ITS). Repairing the gauge will be especially important as air temperature rises through the spring and summer months.
    - NMFS responded that due to the challenges in managing water temperature on the Stanislaus, the take describes the expected extent and amount. Therefore, each day where the temperature threshold is exceeded, it will result in take numbers. However, there is not a temperature limit specified in this ITS because the limit would have been exceeded often. NMFS acknowledged the need for the Orange Blossom data to be correct as it is, in fact, listed in the ITS.

- USFWS asked if this repair is an item that USGS could take on versus DWR. DWR seems to be reluctant to conduct this repair. It also appears that the flows are inconsistent with those at Goodwin and Ripon.
- NMFS added that knowing the temperature at Orange Blossom will not necessarily change upcoming operations. There may be other things prioritized at this time. NMFS offered to discuss the issue further with Reclamation staff at the Bay-Delta Office.
- USFWS added that there was previous talk of moving the dissolved oxygen (DO) compliance point from Ripon to somewhere upstream. This could be an opportunity for Reclamation to redo the temperature gauge and the DO gauge at the same time and protect them against future vandalism. Is it possible for the temperature model to also model DO?
    - Reclamation responded that enhancement is a possibility in the distant future and would require more data to support additional water quality.

February Winter Instability Flow (WIF) Planning

- The WIF was implemented along with the mid-February storms. Implementation was considered successful by the SWT as a preference was previously expressed for the WIF to coincide with a storm event.
- The Spring Pulse Flow is anticipated to be scheduled for April/May. SWT discussions will take place at the March meeting.
    - Reclamation noted that they are likely looking at Dry or Critical water year-type categories.
- Questions and Comments
    - NMFS asked if there was interest in forming a flow-shaping sub-group for anyone who is interested in participating.
        - Newer Reclamation staff expressed interest in listening to the planning processes.
            - USFWS recommended that NMFS share their list of considerations for flow planning.
        - USFWS added that SWT flow shaping focuses on potential fish impacts and what the resulting flows at Vernalis will be: flat flows at Vernalis with peaks on the Stanislaus and Tuolumne rivers versus

the same proportion of water flowing through each of those locations at the same time.

- USFWS suggested bringing back the Fish Agency Technical Team if there proves to be interest in a sub-group.

- CDFW noted that the Merced River does not require a spring pulse flow. The Tuolumne River pulse flow would run between 11-37 TAF depending on the water year type result.
    - CDFW offered to draft two (critical and dry) flow shapes for the Spring Pulse Flow, and NMFS volunteered to assist as needed. Anyone else interested in participating in the flow plan drafting should contact Gretchen Murphey, CDFW.
    - Reclamation added that once the timing and magnitudes of the Tuolumne River releases are known, it's highly likely that the SWT would define their 30-day pulse flow as including the time frame when the Tuolumne releases are occurring. This will increase the chance of meeting both the base flow and pulse flow objectives on the Stanislaus for that period of time. The pulse flow could have a flexible start date and end by 5/31/2025.
        - CDFW added that the Tuolumne River pulse flow will not begin before 4/15/2025 due to licensing constraints.

Stanislaus River Forum (SRF) Call Review

- Reclamation reported that the meeting primarily consisted of operational updates, biologic monitoring, and water quality parameters.
- One member of the public attended the meeting and asked about spring pulse flows and whether or not Reclamation expects to make releases for storage management. Reclamation did not have a confirmed answer as of the time of the SRF call.

Fish Monitoring

CDFW Fish Monitoring

- Salmon carcass surveys concluded the week of 1/6/2025. Survey estimates are currently in progress.
- *O. mykiss*/steelhead redd surveys began the week of 1/6/2025 and are expected to last through April.
- Numbers of Sacramento Sucker redds have increased over the past month.

- CDFW caught one fall-run Chinook salmon at the Mossdale trawl on 2/18/2025.
- Mossdale Trawl operations is now operated solely by CDFW as of the week of 2/17/2025 due to USFWS staffing cuts resulting from the recent Executive Order. It is unknown at this time if CDFW's trawl operation will be a temporary or long-term arrangement.

Questions and Comments

- USFWS shared that 19 out of 80 people were recently laid off in their office due to the new Executive Orders. Their office will likely be conducting less sampling overall and field work is being reassigned as necessary. USFWS will attempt to retain the majority of their programs. The Caswell trap will likely shift to operation by PSMFC.

FISHBIO Updates

No one from FISHBIO provided updates at the SWT meeting; the following information is taken from their meeting handout materials.

- As of 2/11/2025, a total of 3,643 Chinook salmon have passed upstream of the Stanislaus River weir.
    - 20% (726 fish) were of hatchery origin.
- As of 2/11/2025, 14 *O. mykiss* have been observed passing the Stanislaus River.
    - 7 *O. mykiss* were over 16 inches long.
    - 36% were of hatchery origin.
- USFWS encouraged SWT members interested in Stanislaus Weir real-time updates to contact FISHBIO and request to be added to their email distribution list.

PSMFC Updates

- No one from PSMFC provided updates at the SWT meeting; the following information is taken from their meeting handout materials.
- PSMFC installed rotary screw traps (RSTs) at Caswell Memorial State Park on 12/31/2024.
- Daily trap sampling began on 1/5/2025 and will be ongoing 7 days per week.
- Only one RST was operational to begin the season due to low river depth and velocity at the Caswell site. Beginning 2/8/2025, the second 8-foot RST was able to be lowered and both RSTs have sampled in tandem since.

- As of 2/12/2025, no salmonids have been captured. A total of 39 juvenile lamprey have been captured since the sampling season began.

Restoration Project Updates

- Reclamation is unsure of funding status going forward given the federal agency budget cuts. There are also not many sources of state funding available at this time. The projects awaiting funding include, but are not limited to:
    - South San Joaquin Irrigation District
    - Honolulu Bar, Phase II
    - Buttonbush Project
- Reclamation is working to update the scope of work and cost estimate for gravel augmentation below Goodwin Canyon. Given the current timeline, Reclamation is not expecting the project to move forward this year but will prepare to move forward next year or in the future.

Other Discussion Items

SWRCB Updates

Technical workshops on draft updates to the Water Quality Control Plan for the San Francsico Bay/Sacramento-San Joaquin Delta Watershed (Bay-Delta Plan) are continuing, and the Merced draft water quality certification has been released.

Annual Reporting

Reclamation shared that the final report is still under review by upper management.

The report will be shared with SWT upon availability.

Annual Reports from prior years are now available on the SWT webpage.

Items to elevate to WOMT

N/A

Next Meeting

Wednesday, March 19, 10:00 am –12:00 pm. The meeting will be hybrid.

BUREAU OF RECLAMATION

Stanislaus Watershed Team

10:00 a.m. – 12:00 p.m.
Conference Line: 1 (321) 209-6143; Meeting ID: 901 988 581#
Webinar: Join Microsoft Teams Meeting

Wednesday, February 19, 2025

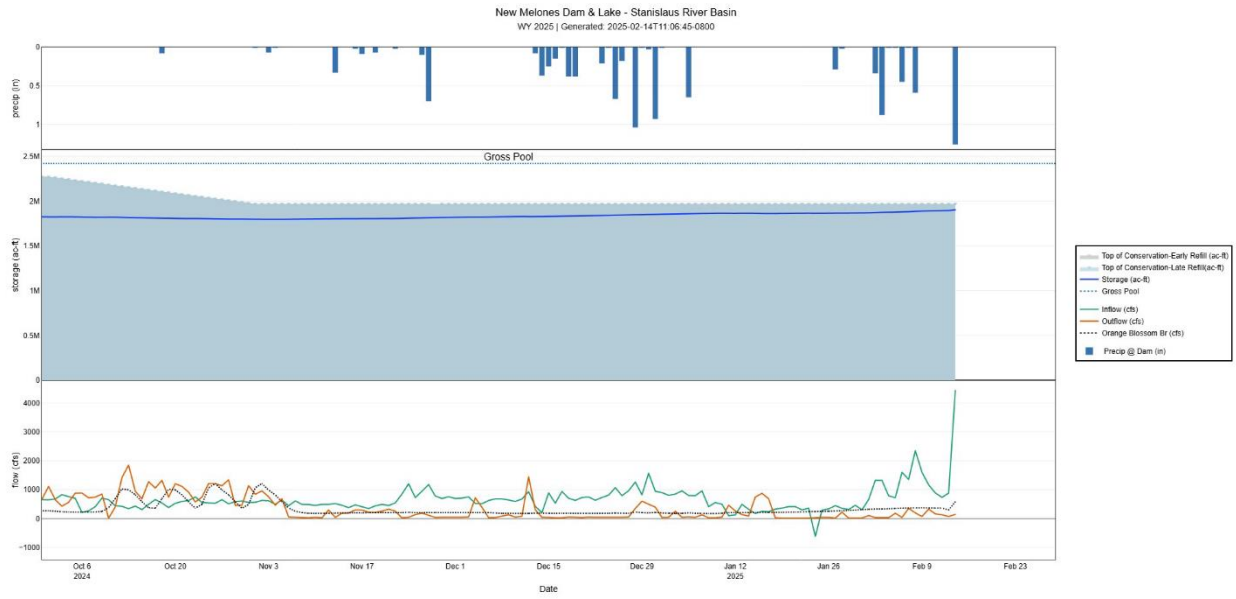
Agenda

1. Introductions
2. Ground Rules[1]
3. Announcements
    a. Meeting will be recorded for notetaking purposes – Tom Fischer, Kearns & West
4. Operations Update and Forecasts/Hydrology – Kevin Thielen, USBR
5. Temperature Updates – Barbara Byrne, NMFS
    a. Updated Introduction
    b. Orange Blossom Bridge Gauge Follow-Up

[1] The Stanislaus Watershed Team's Ground Rules are as follows:

- Seek to understand and respect opposing views and suggestions for change (w/in the parameters of the Guidance Document).
- Seek to leverage collective expertise (including from agencies' & stakeholders' consultants).
- Hold questions/discussion at the discretion of the presenter.
- Honor time limits - keep comments and discussion succinct and focused on meeting objectives as needed.
- Make constructive proposals and suggestions to seek mutually agreeable solutions for all parties.
- Keep a record of discussion and dialogue.
- One speaker at a time
- Take space/make space

6. Winter Instability Flow (WIF) Discussion – Zarela Guerrero, USBR and Gretchen Murphey, CDFW
7. Stanislaus River Forum (SRF) Call Review – Myrna Girald Perez, USBR
8. Fish Monitoring and Studies - CDFW, FISHBIO, NMFS, PSMFC
9. Restoration Project Updates
    a. Restoration Tracker – JD (John) Wikert and Erika Holcombe, USFWS
    b. Cat Pien, USBR
10. Other Discussion Items
    a. SWRCB Updates
    b. Annual Reporting Updates – Myrna Girald Perez, USBR
    c. Items to elevate to WOMT
11. Review Action Items – Tom Fischer, Kearns & West
12. JD's Retirement Celebration
13. Next Meeting: Wednesday, March 19, 2025



New Melones Dam & Lake – Stanislaus River Basin, 2025-02-14T11:06:45-0800

Graph shows the flow, storage, and precipitation for New Melones Dam and Lake from October 2024 to February 2025. The graph shows storage approximately 1.8M ac-ft in October 2024 through February 2025, with an outflow peak at 1900 cfs, and inflow drop below 1000 cfs.

Tables for BDO

United States Department of the Interior
Bureau of Reclamation
Central Valley Project – California Daily CVP Water Supply Report

February 12, 2025
Run Date: February 13, 2025

Table 1. Reservoir Releases in Cubic Feet Per Second

Reservoir	Dam	WY 2024	WY 2025	15-Year Median
Trinity	Lewiston	315	3,500	309
Sacramento	Keswick	14,692	61,358	3,742
Feather	Oroville (SWP)	3,000	30,000	1,750
American	Nimbus	3,491	2,471	2,471
Stanislaus	Goodwin	1,501	212	429
San Joaquin	Friant	561	425	394

Table 2. Storage in Major Reservoirs in Thousands of Acre-Feet

Reservoir	Capacity	15-Yr Avg	WY 2024	WY 2025	% of 15 Yr Avg
Trinity	2,448	1,494	1,627	2,018	135
Shasta	4,552	3,019	3,777	3,751	124
Folsom	977	515	602	568	110
New Melones	2,420	1,462	1,974	1,894	130
Fed. San Luis	966	641	869	670	105
Total North CVP	11,363	7,131	8,849	8,901	125
Millerton	521	293	310	255	87
Oroville (SWP)	3,425	2,153	2,784	2,801	130

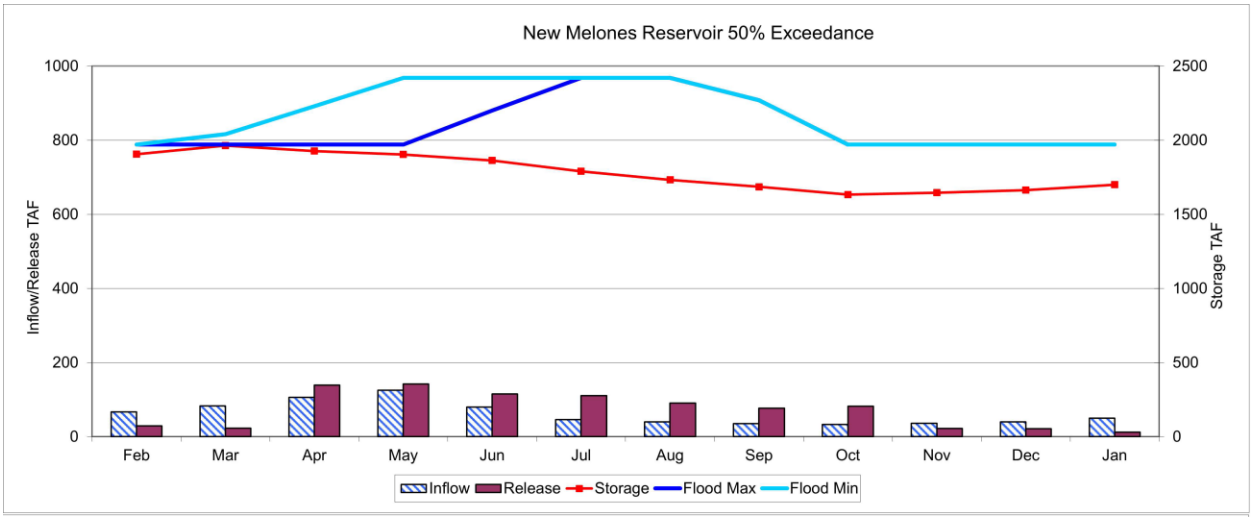
Table 3. Accumulated Inflow for water Year to Date in Thousands of Acre-Feet

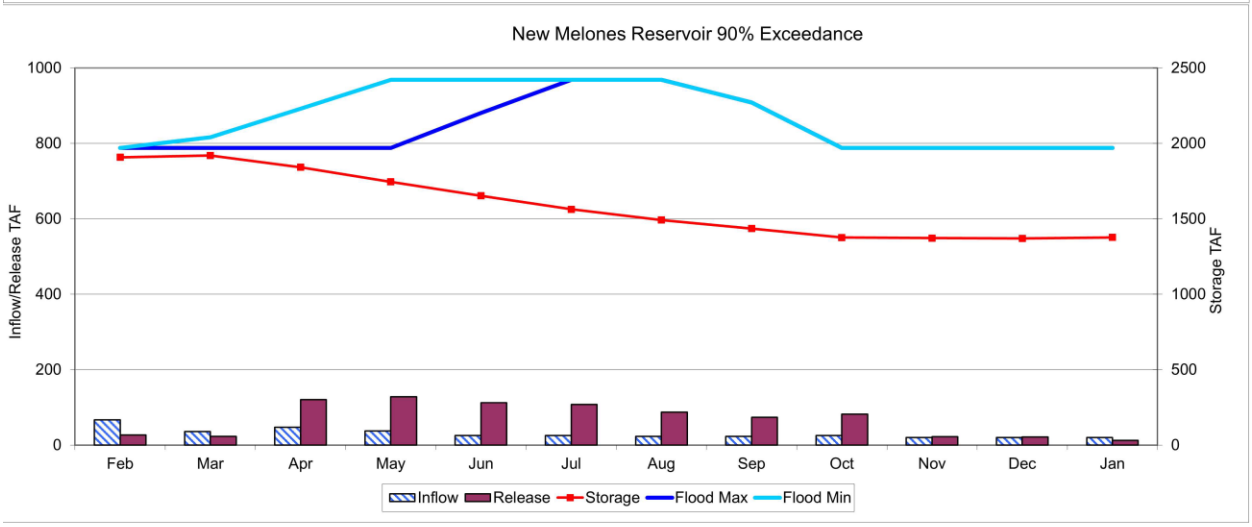
Reservoir	Current WY 2025	WY 1977	WY 1983	15-Yr Avg	% O 15 Yr Avg
Trinity	632	47	583	344	184
Shasta	3,138	1,021	3,302	1,875	167
Folsom	658	146	1,890	844	78
New Melones	171	N/A	650	289	59

Reservoir	Current WY 2025	WY 1977	WY 1983	15-Yr Avg	% O 15 Yr Avg
Millerton	207	90	952	313	66

Table 4. Accumulated Precipitation for Water Year to Date in Inches

Reservoir	Current WY 2023	WY 1977	WY 1983	Avg (N Yrs)	% of Avg	Last 24 Hours
Trinity at Fish Hatchery	27.07	4.63	29.91	19.42 (64)	139	0.00
Sacramento at Shasta Dam	55.08	6.22	58.15	35.90 (69)	153	0.00
American at Blue Canyon	43.45	8.21	60.97	37.54 (50)	116	0.07
Stanislaus at New Melones	9.46	N/A	26.36	15.73 (47)	60	0.00
San Joaquin at Huntington LK	12.09	5.20	49.50	22.24 (51)	54	0.00





New Melones Reservoir 50% and 90% Exceedance

Graphs show the New Melones Reservoir Exceedance. Upper graph shows the New Melones Reservoir 50% exceedance with inflow and release being the highest from April to July. The bottom graph shows the New Melones Reservoir 90% exceedance with the highest release being from April to July.

United States Department of the Interior
Bureau of Reclamation – Central Valley Project – California

New Melones Lake Daily Operations, February 2025, Run Date: 2/14/2025

Day	Elev	Stor-age 1000-Acre-Feet in Lake	Storage 1000-Acre-Feet Change	Com-puted Inflow C.F.S.	Release C.F.S. Power	Release C.F.S. Spill	Release C.F.S. Outlet	Evap. C.F.S.	Evap. Inches	Precip Inches
N/A	N/A	1,868.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	1,040.38	1,871.1	2.6	1,323	33	0	0	3	0.01	0.34
2	1,040.62	1,873.6	2.6	1,320	31	0	0	3	0.01	0.88
3	1,040.76	1,875.1	1.5	786	32	0	0	3	0.01	0.01
4	1,040.86	1,876.2	1.1	723	184	0	0	3	0.01	0.01
5	1,041.14	1,879.1	3.0	1,602	39	0	0	59	0.17	0.45
6	1,041.32	1,881.1	1.9	1,353	354	0	0	31	0.09	0.01
7	1,041.72	1,885.3	4.3	2,350	195	0	0	3	0.01	0.59
8	1,042.00	1,888.3	3.0	1,598	71	0	0	21	0.06	0.00
9	1,042.15	1,889.9	1.6	1,165	327	0	0	28	0.08	0.00
10	1,042.28	1,891.3	1.4	887	161	0	0	24	0.07	0.00
11	1,042.39	1,892.5	1.2	732	131	0	0	7	0.02	0.00
12	1,042.53	1,894.0	1.5	880	72	0	0	52	0.15	0.00
13	1,043.32	1,902.5	8.5	4,433	146	0	0	17	0.05	1.26
Totals	N/A	N/A	34.2	19,152	1,776	0	0	254	0.74	3.55
Acre-Feet	N/A	N/A	34,200	37,988	3,523	0	0	504	N/A	N/A

Comments:

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

Summary Precipitation

This Month	3.55
October 1, 2024 to Date	10.72

Summary: Release (acre- feet)

Release (acre-feet)	N/A
Power	3,523
Spill	0
Outlet	0
Total	**3,523**

United States Department of the Interior
Bureau of Reclamation – Central Valley Project – California

New Melones Lake Daily Operations, January 2025, Run Date: 2/10/2025

Day	Elev	Storage 1000-Acre-Feet in Lake	Storage 1000-Acre-Feet Change	Compu-ted Inflow C.F.S.	Release C.F.S. Power	Re-lease C.F.S. Spill	Re-lease C.F.S. Outlet	Evap. C.F.S.	Evap. Inches	Precip. Inches
N/A	N/A	1,853.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	1,038.82	1,854.5	1.5	805	42	0	0	17	0.05	0.00
2	1,038.93	1,855.7	1.2	847	254	0	0	7	0.02	0.00
3	1,039.10	1,857.5	1.8	959	42	0	0	10	0.03	0.00
4	1,039.23	1,858.9	1.4	798	59	0	0	45	0.13	0.65
5	1,039.37	1,860.3	1.5	792	41	0	0	3	0.01	0.00
6	1,039.52	1,861.9	1.6	958	130	0	0	27	0.08	0.00
7	1,039.59	1,862.7	0.7	413	25	0	0	14	0.04	0.00
8	1,039.68	1,863.6	1.0	555	23	0	0	51	0.15	0.00
9	1,039.76	1,864.5	0.8	494	49	0	0	17	0.05	0.00
10	1,039.69	1,863.7	-0.7	100	460	0	0	14	0.04	0.00
11	1,039.66	1,863.4	-0.3	128	264	0	0	24	0.07	0.00
12	1,039.72	1,864.0	0.6	491	136	0	0	34	0.10	0.00
13	1,039.76	1,864.5	0.4	320	89	0	0	17	0.05	0.00
14	1,039.65	1,863.3	-1.2	178	742	0	0	24	0.07	0.00
15	1,039.53	1,862.0	-1.3	249	873	0	0	17	0.05	0.00
16	1,039.44	1,861.1	-1.0	236	685	0	0	31	0.09	0.00
17	1,039.49	1,861.6	0.5	327	22	0	0	38	0.11	0.00
18	1,039.55	1,862.2	0.6	361	14	0	0	27	0.08	0.00
19	1,039.62	1,863.0	0.7	412	14	0	0	24	0.07	0.00
20	1,039.69	1,863.7	0.7	412	14	0	0	24	0.07	0.00
21	1,039.74	1,864.3	0.5	298	14	0	0	17	0.05	0.00
22	1,039.80	1,864.9	0.6	362	14	0	0	27	0.08	0.00
23	1,039.68	1,863.6	-1.3	-620	14	0	0	7	0.02	0.00
24	1,039.72	1,864.0	0.4	292	40	0	0	38	0.11	0.00

Day	Elev	Storage 1000-Acre-Feet in Lake	Storage 1000-Acre-Feet Change	Computed Inflow C.F.S.	Release C.F.S. Power	Release C.F.S. Spill	Release C.F.S. Outlet	Evap. C.F.S.	Evap. Inches	Precip. Inches
25	1,039.77	1,864.6	0.5	335	41	0	0	27	0.08	0.00
26	1,039.85	1,865.4	0.8	448	14	0	0	7	0.02	0.29
27	1,039.87	1,865.6	0.2	353	222	0	0	24	0.07	0.02
28	1,039.92	1,866.2	0.5	313	15	0	0	31	0.09	0.00
29	1,039.99	1,866.9	0.7	460	14	0	0	72	0.21	0.00
30	1,040.04	1,867.4	0.5	302	17	0	0	17	0.05	0.00
31	1,040.14	1,868.5	1.1	659	106	0	0	17	0.05	0.00
Totals	N/A	N/A	15.0	13,037	4,489	0	0	749	2.19	0.96
Acre-Feet	N/A	N/A	15,000	25,859	8,904	0	0	1,486	N/A	N/A

Comments:

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

Summary Precipitation

This Month	0.96
October 1, 2021 to Date	7.17

Summary: Release (acre-feet)

Release (acre-feet)	N/A
Power	8,904
Spill	0
Outlet	0
Total	**8,904**

United States Department of the Interior
Bureau of Reclamation – Central Valley Project – California

Tulloch Reservoir Daily Operations, February 2025, Run Date: 2/14/2025

Day	Elev	Storage (Acre Feet) Res.	Storage (Acre-Feet) Change	Computed Inflow C.F.S.	New Melones Release	Release C.F.S. Power	Release C.F.S. Spill	Release C.F.S. Outlet	Evap. C.F.S. (1)
N/A	N/A	56,083	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	500.72	56,083	0	210	33	210	0	0	0
2	500.44	55,780	-303	57	31	210	0	0	0
3	500.14	55,455	-325	45	32	209	0	0	0
4	500.31	55,639	184	302	184	209	0	0	0
5	500.09	55,401	-238	95	39	209	0	0	6
6	500.76	56,127	726	572	354	203	0	0	3
7	500.93	56,311	184	296	195	203	0	0	0
8	500.72	56,083	-228	91	71	204	0	0	2
9	501.05	56,442	359	388	327	204	0	0	3
10	501.04	56,431	-11	200	161	204	0	0	2
11	501.03	56,420	-11	199	131	204	0	0	1
12	500.87	56,246	-174	125	72	208	0	0	5
13	501.66	57,115	869	1,139	146	699	0	0	2
Totals	NA	NA	1,032	3,719	1,776	3,176	0	0	24
Acre-Feet	NA	NA	1,032	7,377	3,523	6,300	0	0	48

Comments:

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

Summary: Release (acre-feet)

Release (acre-feet)	N/A
Power	6,300
Spill	0
Outlet	0
Total	**6,300**

United States Department of the Interior
Bureau of Reclamation – Central Valley Project – California

Tulloch Reservoir Daily Operations, December 2024, Run Date: 1/5/2025

Day	Elev	Storage (Acre Feet) Reservoir	Storage (Acre-Feet) Change	Computed Inflow C.F.S.	New Melones Release	Release C.F.S. Power	Release C.F.S. Spill	Release C.F.S. Outlet	Evap. C.F.S. (1)
N/A	N/A	56,652	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	500.99	56,376	-276	68	42	205	0	0	2
2	501.18	56,586	210	308	254	201	0	0	1
3	501.05	56,442	-144	129	42	201	0	0	1
4	500.88	56,257	-185	113	59	201	0	0	5
5	500.65	56,008	-249	75	41	201	0	0	0
6	500.65	56,008	0	204	130	201	0	0	3
7	500.37	55,704	-304	49	25	201	0	0	1
8	500.08	55,390	-314	50	23	203	0	0	5
9	499.84	55,132	-258	76	49	204	0	0	2
10	500.83	56,203	1,071	745	460	204	0	0	1
11	501.22	56,630	427	421	264	204	0	0	2
12	501.21	56,619	-11	202	136	204	0	0	4
13	501.03	56,420	-199	121	89	219	0	0	2
14	502.35	57,882	1,462	958	742	218	0	0	3
15	503.85	59,579	1,697	1,062	873	204	0	0	2
16	504.89	60,780	1,201	810	685	202	0	0	3
17	504.61	60,456	-324	43	22	202	0	0	4
18	504.31	60,109	-347	31	14	203	0	0	3
19	504.01	59,762	-347	31	14	203	0	0	3
20	503.71	59,419	-343	33	14	203	0	0	3
21	503.40	59,066	-353	31	14	207	0	0	2
22	503.07	58,690	-376	24	14	211	0	0	3
23	502.75	58,330	-360	30	14	210	0	0	1
24	502.48	58,028	-302	62	40	210	0	0	4
25	502.23	57,748	-280	72	41	210	0	0	3
26	501.90	57,380	-368	25	14	210	0	0	1
27	501.97	57,457	77	252	222	210	0	0	3
28	501.66	57,115	-342	41	15	210	0	0	3
29	501.35	56,773	-342	46	14	211	0	0	7

Day	Elev	Storage (Acre Feet) Reservoir	Storage (Acre-Feet) Change	Computed Inflow C.F.S.	New Melones Release	Release C.F.S. Power	Release C.F.S. Spill	Release C.F.S. Outlet	Evap. C.F.S. (1)
30	501.08	56,475	-298	65	17	213	0	0	2
31	500.72	56,083	-392	14	106	210	0	0	2
Totals	N/A	N/A	-569	6,191	4,489	6,396	0	0	81
Acre-Feet	N/A	N/A	-569	12,280	8,904	12,686	0	0	161

Comments:

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

Summary: Release (acre-feet)

Release (acre-feet)	N/A
Power	12,686
Spill	0
Outlet	0
Total	**12,686**

Oakdale Irrigation District South San Joaquin Irrigation
District Tri Dams Project-California

Goodwin Reservoir Daily Operations, February 2025, Run Date: 2/14/2025

Day	Elev	Storage (1000 Acre-Feet) in Reservoir	Storage (1000 Acre-Feet) Change	Tulloch Release	Release C.F.S. – River Outlet	Release C.F.S. – Spill	Canals-Joint Main	Canals – South Main
N/A	N/A	520	N/A	N/A	N/A	N/A	N/A	N/A
1	359.76	520	0	210	0	216	0	0
2	359.76	520	0	210	0	216	0	0
3	359.76	520	0	209	0	215	0	0
4	359.76	520	0	209	0	214	0	0
5	359.75	520	0	209	0	212	0	0
6	359.76	520	0	203	0	207	0	0
7	359.75	520	0	203	0	205	0	0
8	359.75	520	0	204	0	200	0	0
9	359.75	520	0	204	0	205	0	0
10	359.75	520	0	204	0	205	0	0
11	359.75	520	0	204	0	205	0	0
12	359.76	520	0	208	0	212	0	0
13	360.39	564	44	699	0	726	0	0
Totals	N/A	N/A	44	3,176	0	3,238	0	0
Acre-Feet	N/A	N/A	44	6,300	0	6,423	0	0

Joint Main Operated by SSJID and OID.

Summary: Release (acre-feet)

Joint Main Canal	0
South Main Canal	0
Outlet	0
Spill	6,423
Total	**6,423**

Oakdale Irrigation District South San Joaquin Irrigation
District Tri Dams Project-California

Goodwin Reservoir Daily Operations, December 2024, Run Date: 1/5/2025

Day	Elev	Storage (1000 Acre- Feet) in Lake	Storage (1000 Acre-Feet) Change	Tulloch Release	Release C.F.S. – River Outlet	Release C.F.S. – Spill	Canals– Joint Main	Canals– South Main
N/A	N/A	521	N/A	N/A	N/A	N/A	N/A	N/A
1	359.76	520	-1	205	0	206	0	0
2	359.76	520	0	201	0	205	0	0
3	359.76	520	0	201	0	208	0	0
4	359.76	520	0	201	0	205	0	0
5	359.76	520	0	201	0	205	0	0
6	359.76	520	0	201	0	204	0	0
7	359.76	520	0	201	0	203	0	0
8	359.76	520	0	203	0	203	0	0
9	359.16	478	-42	204	0	229	0	0
10	358.62	442	-36	204	0	225	0	0
11	358.67	446	4	204	0	202	0	0
12	358.74	450	4	204	0	202	0	0
13	359.33	490	40	219	0	200	0	0
14	359.73	518	28	218	0	204	0	0
15	359.73	518	0	204	0	203	0	0
16	359.73	518	0	202	0	205	0	0
17	359.73	518	0	202	0	204	0	0
18	359.73	518	0	203	0	205	0	0
19	359.73	518	0	203	0	205	0	0
20	359.73	518	0	203	0	205	0	0
21	359.74	519	1	207	0	207	0	0
22	359.74	519	0	211	0	213	0	0
23	359.74	519	0	210	0	210	0	0
24	359.75	520	1	210	0	209	0	0

Day	Elev	Storage (1000 Acre- Feet) in Lake	Storage (1000 Acre-Feet) Change	Tulloch Release	Release C.F.S. – River Outlet	Release C.F.S. – Spill	Canals– Joint Main	Canals– South Main
25	359.75	520	0	210	0	209	0	0
26	359.75	520	0	210	0	210	0	0
27	359.75	520	0	210	0	209	0	0
28	359.75	520	0	210	0	209	0	0
29	359.75	520	0	211	0	210	0	0
30	359.76	520	0	213	0	214	0	0
31	359.76	520	0	210	0	216	0	0
Totals	N/A	N/A	-1	6,396	0	6,444	0	0
Acre Feet	N/A	N/A	-1	12,686	0	12,782	0	0

Joint Main Operated by SSJID and OID.

Summary: Release (acre-feet)

Joint Main Canal	0
South Main Canal	0
Outlet	0
Spill	12,782
Total	**12,782**

February 2025 Water Temperature and Fish Monitoring Update

Year-to-Date Flows

Goodwin releases since October 1, 2024, are shown in Figure 1.

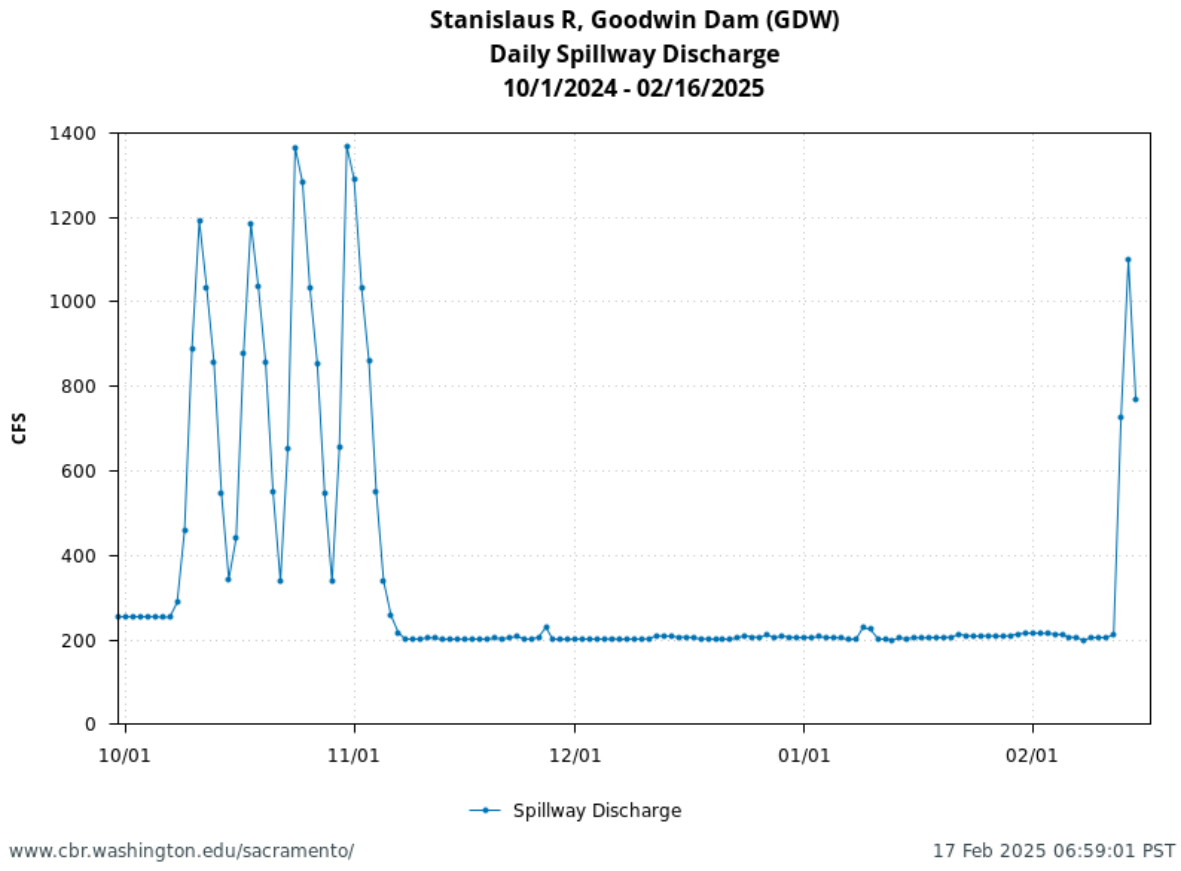


Figure 1. Goodwin (daily) releases to the Stanislaus River since October 1, 2024. Data from GDW station on CDEC.

Figure 1 is a line graph showing Goodwin Dam daily spillway discharge. The graph shows two periods of 1,350 cfs on October 24 and October 31, 2024 and two periods of 1,200 cfs discharge on October 11 and October 18, 2024. The spillway discharge remains around 250 cfs from November 7, 2024 to December 15, 2024, with a minor increase in late November 2024 and early January 2025. The spillway discharge peaks to about 1,500 cfs on February 15 2025.

Water Temperature

The temperature thresholds included in Figures 2-10, below, are the thresholds used in the 2024 NMFS LTO BiOp1 (see Incidental Take Statement on p. 896-897) to define the extent of take

anticipated from water temperature effects in the Stanislaus River. It is important to note that many of the temperature figures provide subdaily information or information at locations other than Orange Blossom Bridge and thus don't reflect the specific metrics for take in the 2024 NMFS LTO BiOp. Temperature thresholds have been added to these figures at the request of Stanislaus Watershed Team members to provide a general reference of water temperature suitability.

Water temperatures in the Stanislaus River since December 2024 are shown below at Goodwin Canyon (Figure 2), Orange Blossom Bridge (Figure 3), and at Ripon (Figure 4). Water temperatures in the San Joaquin River since December 2024 are shown below at Vernalis (Figure 5). Current-year water temperatures are plotted along with historical temperatures for upstream of Orange Blossom Bridge (Figure 6), Ripon (Figure 7), and Vernalis (Figure 8). A compilation of Stanislaus River water temperatures and Goodwin releases Water Year 2025 is provided in Figure 9.

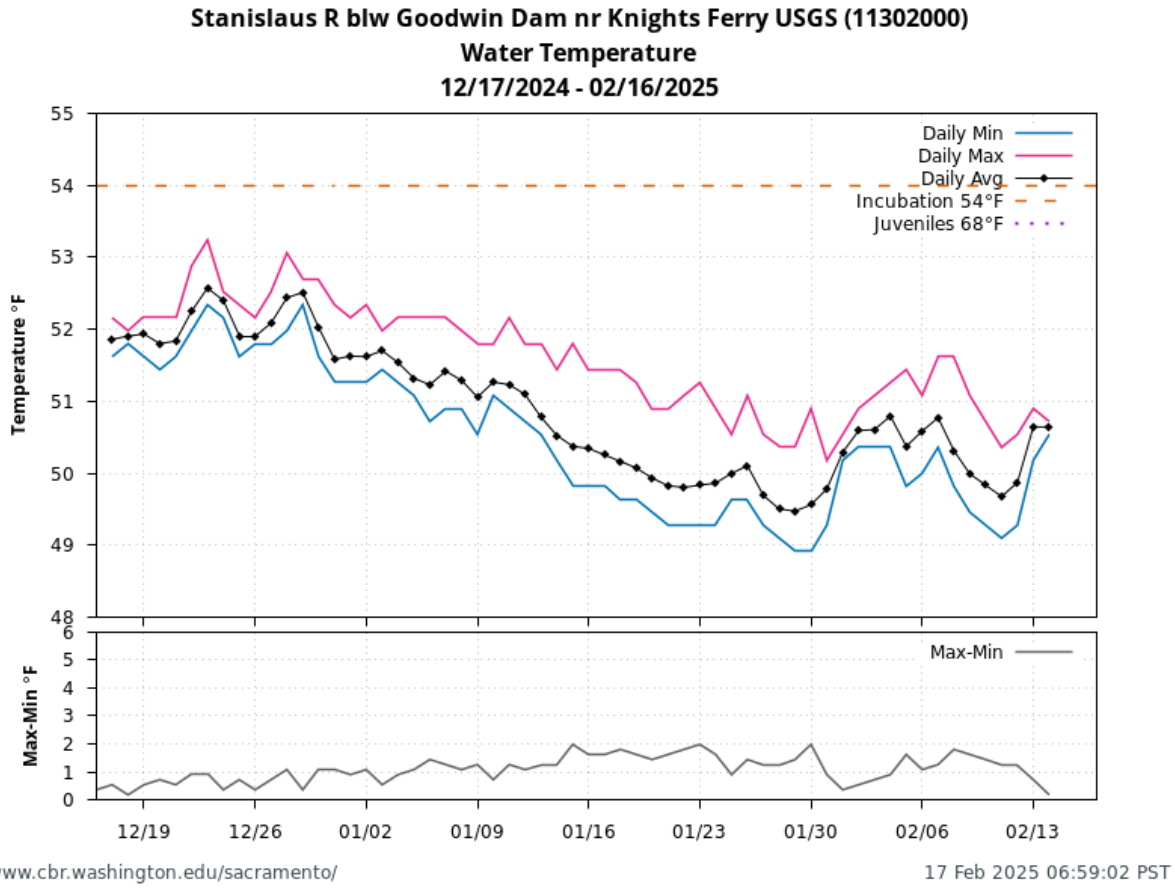


Figure 2. Daily water temperatures on the Stanislaus River upstream of Knights Ferry since November 12, 2024. Data from USGS gage 11302000 on NWIS; temperature threshold reference line added by SWT.

Chart: Stacked chart for daily water temperatures Stanislaus River upstream of Knights Ferry for current 60 days period. Top chart: Daily Min, Max and average water temperatures (in degrees Fahrenheit). Bottom chart: Daily difference between Max and Min measured water temperature in degrees Fahrenheit. Data from OBB station retrieved from CDEC; figure generated by SacPAS (including date-based water temperature threshold reference lines).

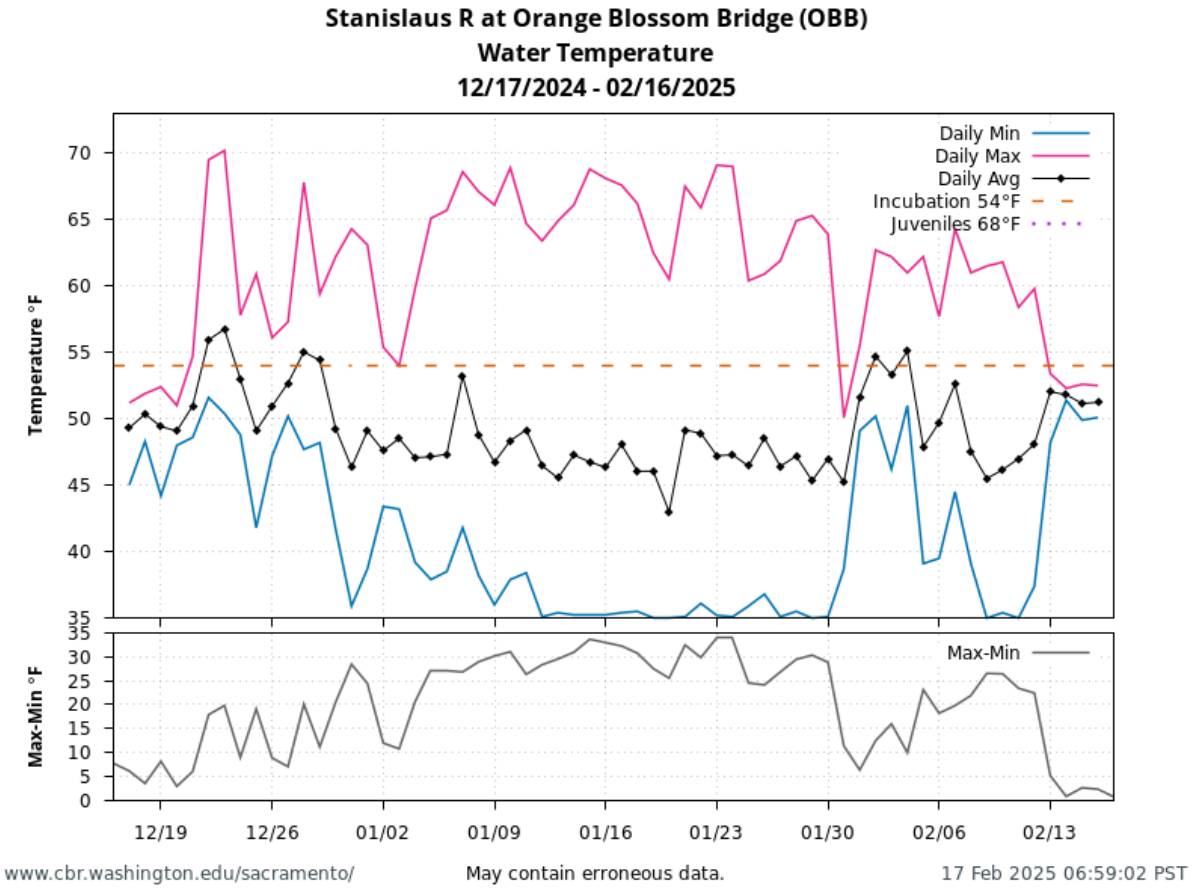


Figure 3. Stanislaus (hourly) water temperatures at Orange Blossom Bridge since November 17, 2024. Data from OBB station on CDEC. Please be aware that due to malfunctions with the temperature gauge at Orange Blossom Bridge, the data should be noted as unreliable.

Chart: Stacked chart for daily water temperatures Stanislaus River at Orange Blossom Bridge for current 60 days period. Top chart: Daily Min, Max and average water temperatures (in degrees Fahrenheit). Bottom chart: Daily difference between Max and Min measured water temperature in degrees Fahrenheit. Data from OBB station retrieved from CDEC; figure generated by SacPAS (including date-based water temperature threshold reference lines). For more information, please call (916) 414-2400.

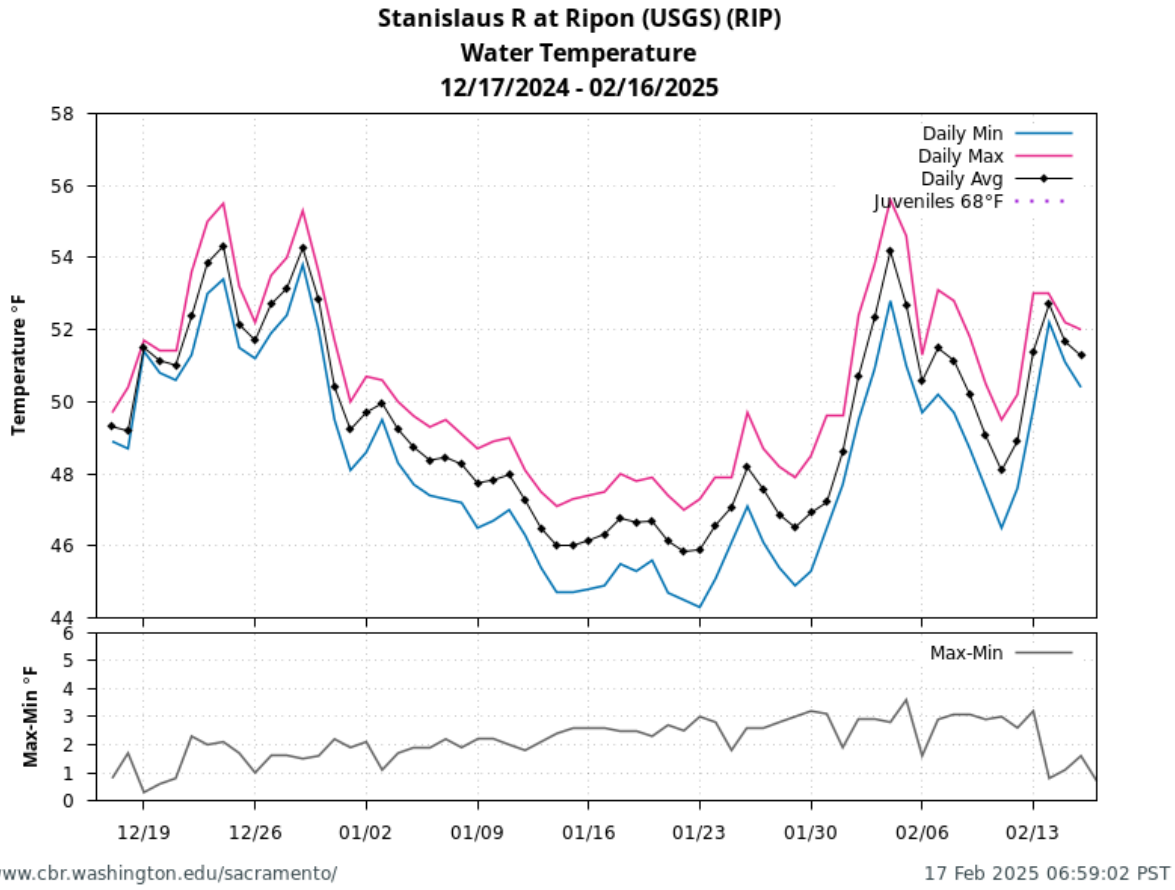


Figure 4. Stanislaus water temperatures at Ripon since December 17, 2024. Data from RIP station on CDEC.

Chart: Stacked chart for daily water temperatures Stanislaus River at Ripon for current 60 days period. Top chart: Daily Min, Max and average water temperatures (in degrees Fahrenheit). Bottom chart: Daily difference between Max and Min measured water temperature in degrees Fahrenheit. Data from OBB station retrieved from CDEC; figure generated by SacPAS (including date-based water temperature threshold reference lines).

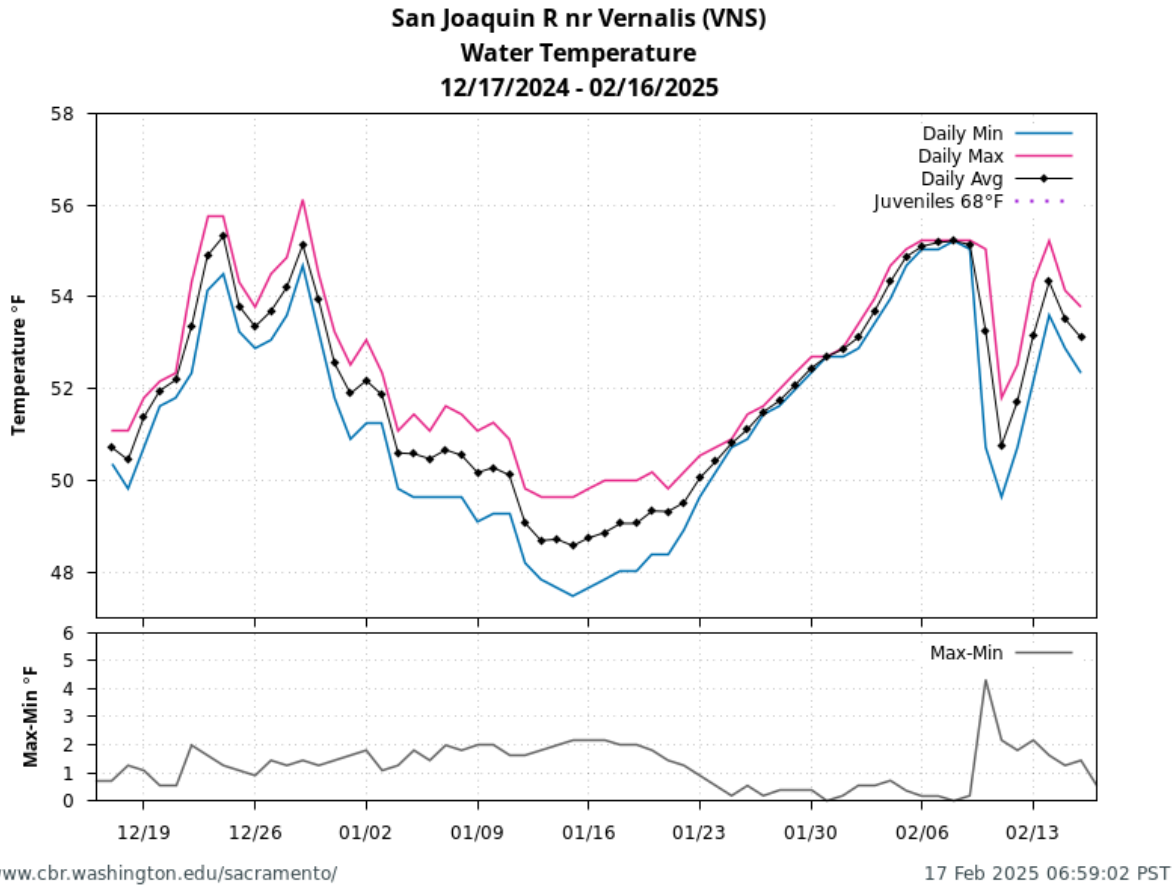


Figure 5. San Joaquin River (15-minute) water temperatures at Vernalis since December 17, 2024. Data from VNS station on CDEC. Note that, unlike in the previous figures, temperature is reported in degrees Celsius. 8°C=46.4°F; 10°C=50°F; 12°C=53.6°F; 14°C=57.2°F; 16°C=60.8°F; 18°C=64.4°F; 20°C=68.0°F; 22°C=71.6°F; 24°C=75.2°F; 26°C=78.8°F; 28°C=82.4°F.

Chart: Stacked chart for daily water temperatures Stanislaus River at Vernalis for current 60 days period. Top chart: Daily Min, Max and average water temperatures (in degrees Fahrenheit). Bottom chart: Daily difference between Max and Min measured water temperature in degrees Fahrenheit. Data from OBB station retrieved from CDEC; figure generated by SacPAS (including date-based water temperature threshold reference lines).

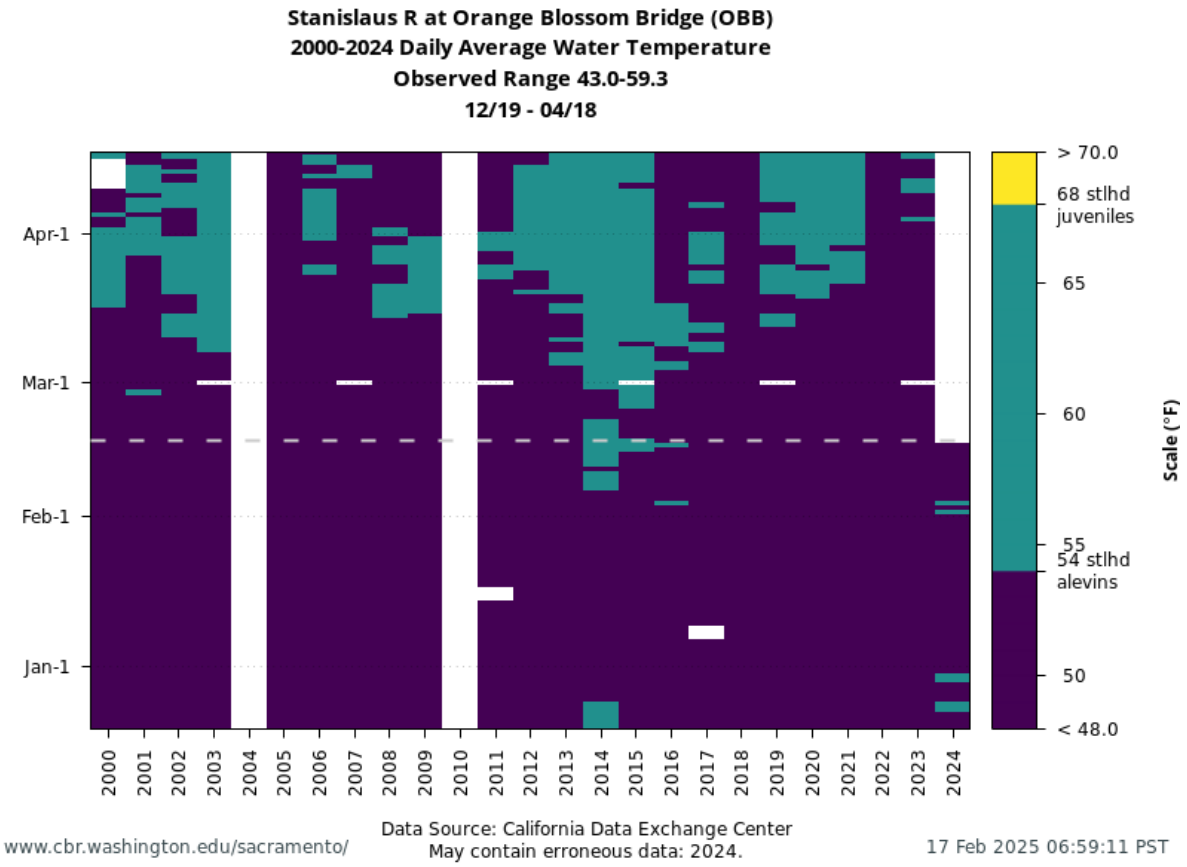


Figure 6. Stanislaus River water temperatures at Orange Blossom Bridge for WY 2001 to present. Data from SacPAS website; temperature threshold reference lines added by SWT. Please be aware that due to malfunctions with the temperature gauge at Orange Blossom Bridge, the data should be noted as unreliable.

Figure 6 is a bar chart showing water temperatures at Orange Blossom Bridge for WY 2001 to present for December to April. Blossom readings were flagged due to incomplete or potentially inaccurate data due to unidentified equipment issues.

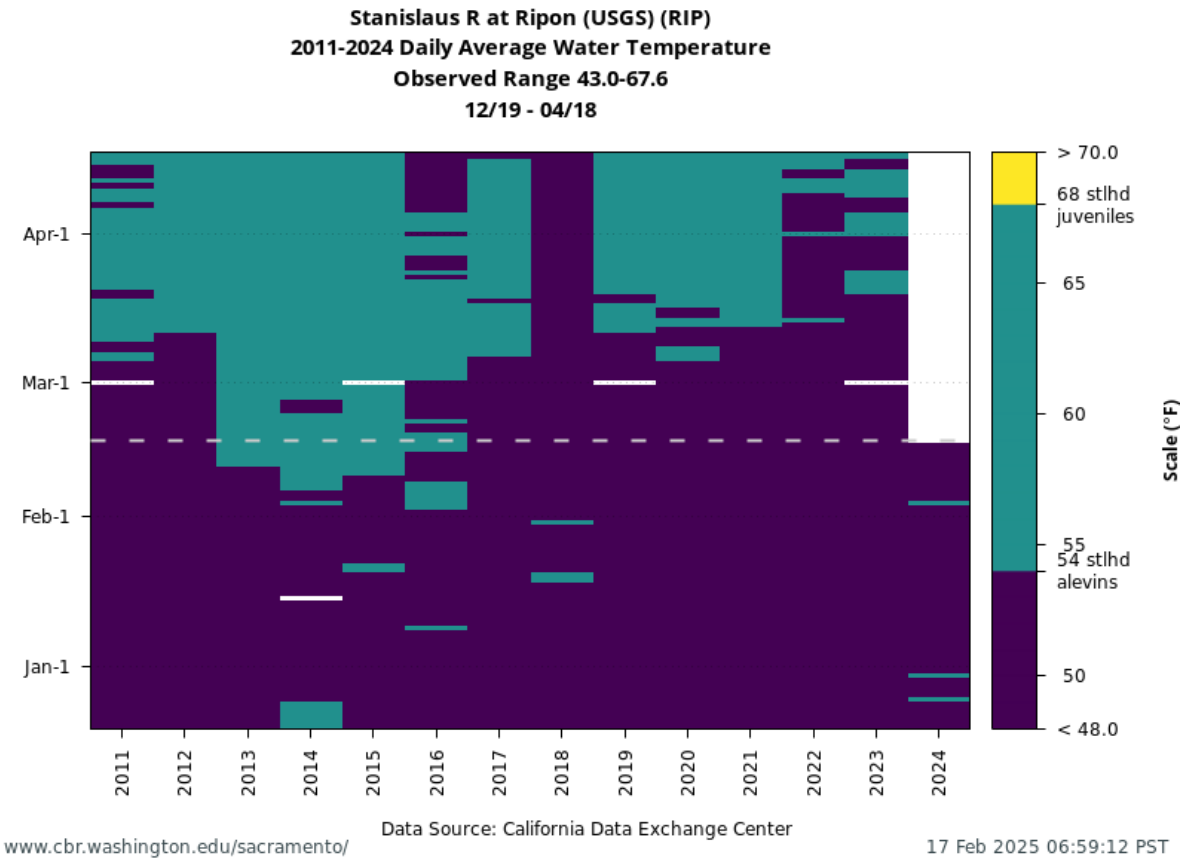


Figure 7. Stanislaus River water temperatures at Ripon for WY 2011 to present. Figure from SacPAS website using RIP station data from CDEC; temperature threshold reference line added by SWT.

Figure 7 is a bar chart showing water temperatures at Ripon for WY 2011 to present for December to April. The chart shows that during this time, the daily average water temperature was mostly below 54 degrees Fahrenheit.

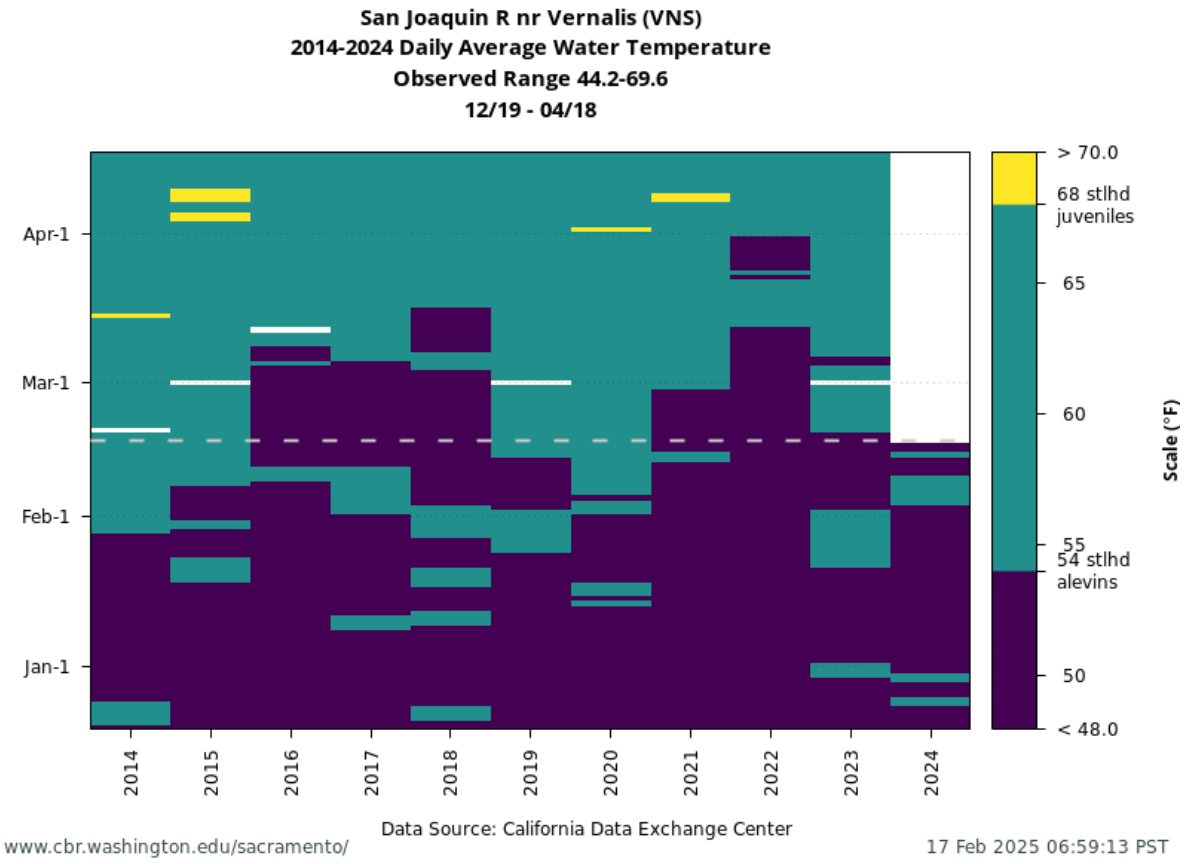


Figure 8. San Joaquin River water temperatures at Vernalis for WY 2014 to present. Figure from SacPAS website using VNS station data from CDEC; temperature threshold reference line added by SWT.

Figure 8 is a bar chart showing water temperatures at Vernalis for WY 2014 to present for December to April. The chart shows that during this time, the daily average water temperature was mostly above 54 degrees Fahrenheit.

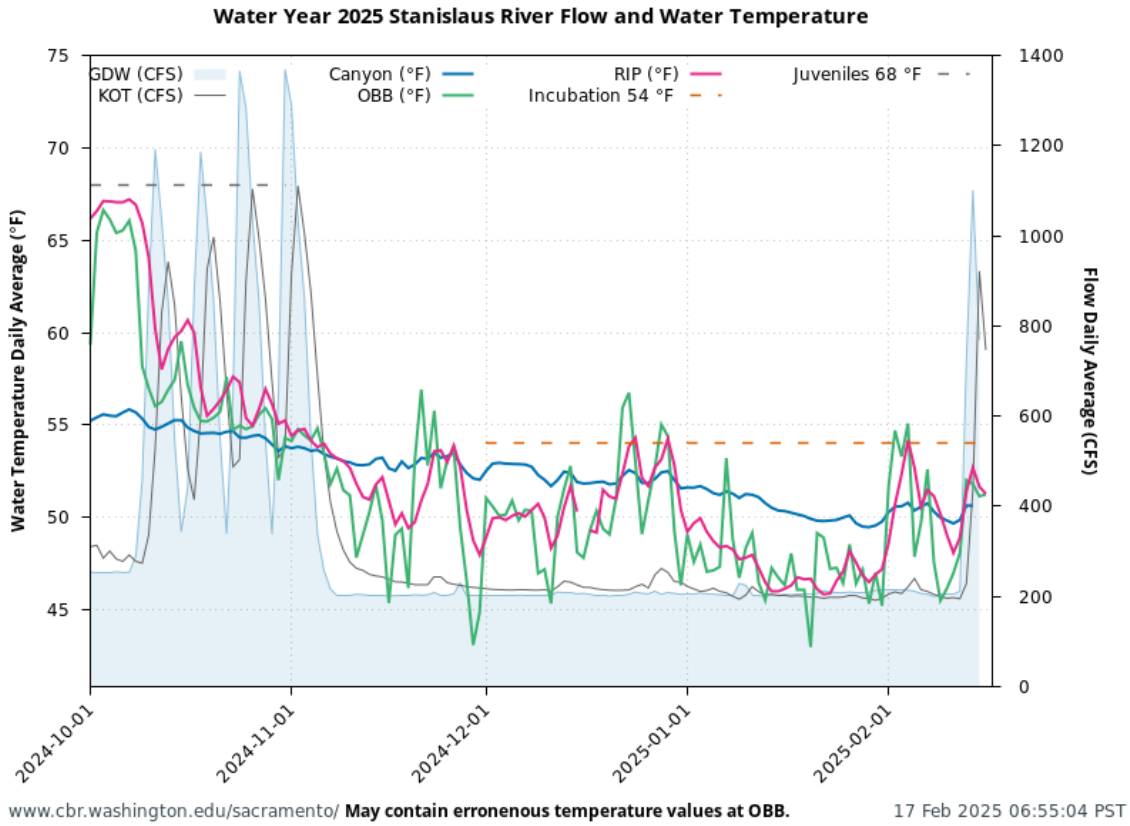


Figure 9. Stanislaus River flow and water temperatures from October 1, 2024 to February 13, 2024. Data (including temperature threshold reference lines) from SacPAS website. Please be aware that due to malfunctions with the temperature gauge at Orange Blossom Bridge, the data should be noted as unreliable.

Figure 9 is a line chart showing river flow and water temperatures on the Stanislaus River. The graph shows decreasing temperatures and flow October 2024 – February 2025.

Item 6. Flow Planning

CDFW & USBR Updates

Updates to be shared/discussed at February meeting.

Item 7. Stanislaus River Forum (SRF) Call Review

USBR Updates

Receive live update from USBR staff on the 2/18 call.

Item 8. Fish Monitoring and Studies

CDFW Update on Fish Monitoring (Adults)

Chinook carcass and redd surveys: The California Department of Fish & Wildlife (CDFW) completed Chinook salmon carcass and redd surveys the week of 1/6/2025. Estimates are currently in progress.

Steelhead redd surveys: Began 1/6/2025.

Update on Fish Monitoring (Juveniles)

Steelhead Redd Survey

Table 5. Data on steelhead redd survey through the week of 1/6/2025.

Week	Date	# RBT Live <40	# RBT Live <40	# RBT Redds	# RBT Car-cass	# CHN Live	# CHN Redds	# CHN Car-cass	# PL Live	# PL Redds	# PL Car-cass	# SASU Redds	Avera-ge Flow (cfs)
1	1/6/2025	13	0	1	1	21*	31*	4*	0	0	0	0	200
2	1/13/2025	0	14	0	0	6	104	2	0	0	0	0	200
3	1/20/2025	0	4	0	2	1	2	2	0	0	0	0	200
4	1/27/2025	3	17	0	0	0	0	0	0	0	0	0	200
5	2/3/2025	4	37	7	0	0	0	0	0	0	0	5	200
6	2/10/2025	2	24	2	3	0	0	0	0	0	0	42	200

*- Data revised from previous handout.

RBT- O. mykiss

CHN- Chinook salmon

PL- Pacific Lamprey

SASU- Sacramento Sucker

Update on Fish Monitoring (Juveniles)

Mossdale Trawl

- There has been no salmonid catch since June 28, 2024.
- Sampling is ongoing, but catch is rare outside of the spring months.
- Reporting on the trawl will resume in March 2025 or when salmonids are caught.

- Trawl operations shifted from USFWS to joint (USFWS and CDFW) operations on 1/6/2025.

Stanislaus Weir

As of 2/11/2025, a total of 3,643 adult Chinook salmon have passed upstream of the Stanislaus River weir (Table 2). 726 (20%) of the adults were adipose fin clipped (indicating hatchery origin). A total of 14 O. mykiss (Table 3) have been observed passing the Stanislaus River weir as of 2/11/2025, with 7 being over 16 inches. Seven out of 14 (36%) of the O. mykiss were adipose fin clipped.

Table 6. Chinook passage at the Stanislaus River Weir - Updated through: 2/11/2025

Year	Monitoring Start date	Net Passage To Date	Season Total
2024	9/5/24	3,641	3,641
2023	9/6/23	2,337	2,443
2022	9/15/22	3,692	3,798
2021	9/8/21	5,937	6,032
2020	9/10/20	1,873	1,906
2019	8/29/19	2,594	2,594
2018	9/5/18	4,729	4,777
2017	9/15/17	8,333	8,500
2016	9/8/16	14,045	14,399
2015	9/15/15	11,764	12,707
2014	9/5/14	5,427	5,527
2013	9/3/13	5,389	5,452
2012	9/11/12	7,109	7,248
2011	11/8/11	714	776
2010	9/7/10	1,334	1,364
2009	9/9/09	1,243	1,303
2008	9/9/08	880	928
2007	9/22/07	429	439

Year	Monitoring Start date	Net Passage To Date	Season Total
2006	9/8/06	2,902	3,074
2005	9/8/05	4,066	4,124
2004	9/10/04	4,424	4,448
2003	9/5/03	4,720	4,848

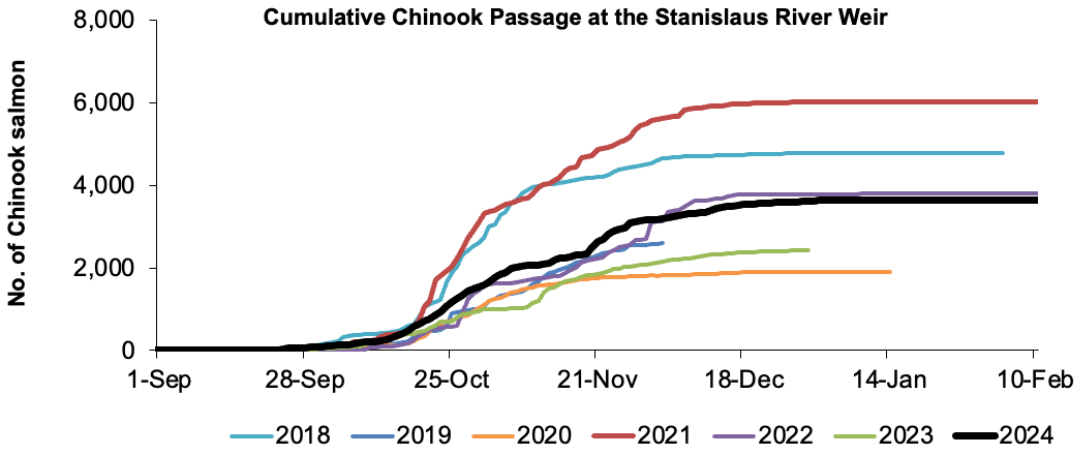


Figure 10. Cumulative Chinook passage at the Stanislaus River weir.

Figure 10 is a line chart showing the cumulative Chinook passage. The majority of Chinook passage occurred October – December 2021.

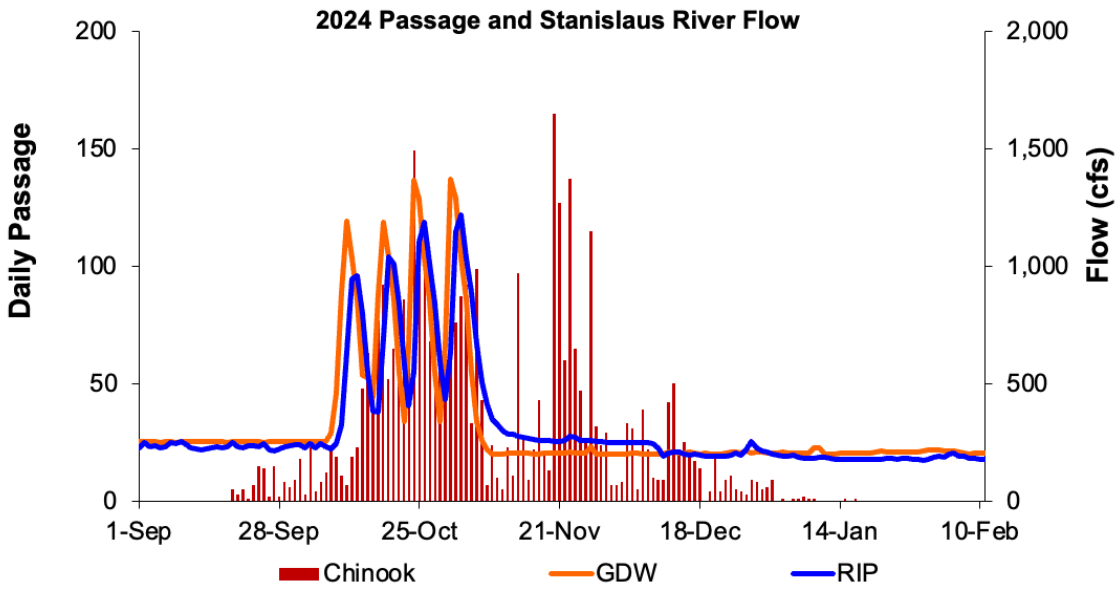


Figure 11. 2024-2025 passage and Stanislaus River flow

Figure 11 is a bar chart showing the 2024 passage and Stanislaus Rive flow, with the highest peaks occurring throughout October.

Table 7. O. mykiss passage at the Stanislaus River Weir as of 2/11/2025 of each year and the season totals.

Year	Monitoring Start date	Net Passage To Date	Season Total
2024	9/5/24	14	14
2023	9/6/23	29	55
2022	9/15/22	2	6
2021	9/8/21	18	35
2020	9/10/20	4	8
2019	8/29/19	31	31
2018	9/5/18	21	25
2017	9/15/17	11	11
2016	9/8/16	21	26
2015	9/15/15	1	5
2014	9/5/14	3	8
2013	9/3/13	20	39
2012	9/11/12	26	101
2011	11/8/11	11	86
2010	9/7/10	1	6
2009	9/9/09	6	9
2008	9/9/08	12	15
2007	9/22/07	2	2
2006	9/8/06	6	12
2005	9/8/05	0	0
2004	9/10/04	0	1
2003	9/5/03	0	0

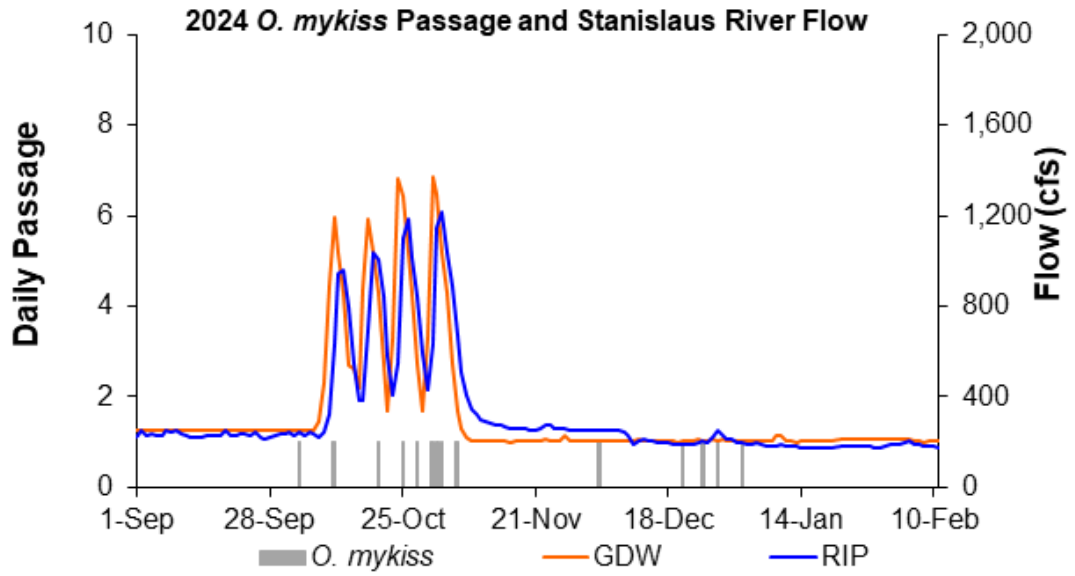


Figure 12. Graph of 2024-2025 O. mykiss passage and Stanislaus River flow.

Figure 12. Graph is a bar chart and line graph showing daily O. mykiss passage at the Stanislaus River weir and river flow at Goodwin (GDW) and Ripon (RIP), 2024. The highest peaks occur throughout October.

Note from FISHBIO: The Vaki RiverWatcher has been down since November 13, 2024, and the backup video system and/or trapping have been the primary monitoring method since. No measurements are obtained using the backup system. A new Simsonar FishCounter system is expected to be installed in February. This same type of system is currently being used at the Tuolumne River weir.

PSMFC

Rotary Screw Traps (RSTs): Rotary screw trapping at Caswell Memorial State Park by PSMFC for the 2025 outmigration season began on 1/5/2025.

Only one 8-foot RST was operational to begin the season due to low river height and river velocity at the Caswell RST site. Beginning 2/8/2025, the second 8-foot RST was able to be lowered and both RSTs have sampled in tandem since.

As of 2/12/2025, no salmonids have been captured at the site. A total of 39 juvenile lamprey have been captured since the sampling season began.

Archived information can be found at the Caswell RST CalFish webpage, which includes catch spreadsheets, annual reports, and other project information: CalFish Stanislaus River (Caswell) – RST Monitoring

Item 9. Restoration Project Updates

Applicable updates to be shared at the February meeting.