BUREAU OF RECLAMATION

Stanislaus Watershed Team

March 19, 2025

Members Attending

- USBR: Brian Willard, Cat Pien, Kevin Thielen, Myrna Girald Perez, Peggy Manza, Randi Field, Zarela Guerrero
- USFWS: Craig Anderson, Erika Holcombe
- CDFW: Gretchen Murphey, Crystal Rigby, Steve Tsao, Travis Apgar
- NMFS: Barb Byrne, Rachael Alcala
- DWR: N/A
- SWRCB: Chris Carr, Yongxuan Gao
- PSMFC: Hunter Morris
- SSJID: Brandon Nakagawa, Peter Rietkerk
- FISHBIO: N/A
- Stockton East Water District (SEWD): N/A
- WAPA: Jeffrey Trow
- Attorney Offices: Lilliana Selke, Tim Wasiewski
- Kearns & West: Mia Schiappi, Tom Fischer, Bethany Taylor

Action Items

- Gretchen Murphey, CDFW
    - Invite Chris Carr, SWRCB, to connect regarding the upcoming Tuolumne River discussion.
    - Share photo of the canal rockslide with Peter Rietkerk, SSJID.
    - Adjust the Dry version of the spring pulse flow plan to begin on 4/15/2025.

- Reclamation and SWRCB to email Gretchen Murphey with information concerning Vernalis targets.
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Announcements

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- The SacPAS maps now feature temperature-related color shading at the request of the SWT.

Operations Update and Forecasts/Hydrology

New Melones Reservoir Update

- As of 3/19/2025, storage levels are approximately 1.965 MAF.
- Storms occurring in February and March provided a healthy level of inflow for New Melones Reservoir, taking storage levels close to the top of conservation.
- No flood control actions are needed at New Melones at this time. However, other reservoirs in the Central Valley have had to make flood control releases recently.

Daily CVP Water Supply

- Accumulated precipitation is 16.17 inches, or 77% percent of average.
- Accumulated inflow as of 3/16/2025 is 251 TAF into New Melones, or 61% of average.
- Snowpack for the entire Central Sierra Nevada range is approximately 89% of the annual April 1st average.

Forecast

- At the 50% exceedance level, New Melones storage starts at 1.95 MAF in March and is forecasted to drop below 1.9 MAF in May. It would continue to gradually decrease to 1.55 MAF in October before increasing again.
- At the 90% exceedance level, storage is forecasted to decrease to 1.75 MAF in May and eventually drop to a low of 1.33 MAF in October.

Tulloch Dam

- Some side flows occurred at Tulloch during the February storms.

- From 2/22 – 2/28/2025, TriDams was moving releases from the powerhouse to the spillway and then the lower outlet and eventually back to the powerhouse. Reclamation speculated that this may have been due to maintenance or testing but does not affect the total releases flowing through Goodwin Dam to the river.

Goodwin Dam

- Goodwin Dam maintained a base flow of approximately 200 cfs for the majority of the month with the exception of 2/13 – 2/17/2025 to allow for the Winter Instability Flow (WIF). Releases remained stable through the end of March.
- March releases at Goodwin Dam remained at 200 cfs until 3/13/2025. Reclamation then increased releases to meet the D-1641 Vernalis flow requirements when the water year type shifted from Critically Dry to Dry. As of 3/16/2025, releases are at 600 cfs.

Other Questions/Comments

- CDFW asked for clarification on the water year type for the Stanislaus River.
    - Reclamation responded that they are Critically Dry on the 90% exceedance level, and Dry on the 75% exceedance level. However, depending on March snow surveys, there is potential to be categorized as Dry on the 90% exceedance level once we reach April. Currently, the 90% exceedance is used for the Stepped Release Plan flows, and the 75% exceedance is used for D1641 Requirements.
- Reclamation asked for the Vernalis flow objective for Critically Dry.
    - The objective for Critically Dry is 1,140 cfs.

Water Temperature Updates

- Temperatures down to Ripon are cool at approximately 50°F and suitable for salmonids.
- NMFS is planning to work with Chase Ehlo, Reclamation, on next steps for alleviating the issue with the temperature at the Orange Blossom Bridge (OBB) gauge.

Spring Pulse Flow Planning

- CDFW and Reclamation created and shared draft of spring pulse flows based on both Dry and Critically Dry conditions.
- The D-1641 projections for both the 90% and 10% exceedance are incorporated into both draft plans.

- The Tuolumne River will have water available for the pulse flow – likely 37 TAF – but those flows aren't expected to start before 4/15/2025.
- The Merced River does not do a spring pulse flow. As of 3/19/2025, they are conducting flood releases for an undetermined amount of time.

Questions and Comments

- Reclamation asked CDFW to clarify their expected start date for the pulse flow.
    - CDFW responded that the Critically Dry draft plan is proposing to start on 4/15/2025. If conditions improve to Dry, the proposal is a start date of approximately 4/8/2025. The shaping of the draft plan allows for the biologists to conduct field work in between flow peaks.
    - Reclamation added that they expect the B-120 with updated water year type information to become available on 4/8/2025. Therefore, no operational changes could take place on 4/8 due to the short notice.
        - In response, CDFW pushed back the start date of the Dry draft plan by one week to accommodate any updates from the B-120. CDFW will redistribute the updated drafts to the SWT.
        - NMFS expressed support for the revised Dry draft plan.
        - Reclamation confirmed that this allows for sufficient time between the B-120 announcement and submitting the change order for implementation of the spring pulse flow.
- USFWS shared a request related to a planned float on 5/3/2025 for the Stanislaus Watershed Organization to showcase the Stanley Wakefield restoration site. Ideally, flows would be at 1,000-1,500 cfs for the event.
    - Upon reshaping of the draft pulse flow to begin on 4/15/2025, the 5/3/2025 flows are scheduled to be 1,200 cfs, which is within the requested flow range for the Stanislaus Watershed Organization float.
- The CA State Water Resources Control Board (Water Board) suggested using the California Nevada River Forecast Center (CNRFC) forecast to get an updated estimate for the water year type for April before DWR publishes the next B-120.
    - Reclamation added that there is a difference in forecasting between CNRFC and DWR and that the forecasting can be used as a tool for consideration but the official decision will have to come from the next B-120.
- The Water Board asked CDFW if there will again be a spreadsheet showing the three tributaries to be shared with the fishery agencies' technical teams.

- CDFW responded that this spreadsheet will exist in some capacity, although the Merced River does not conduct a pulse flow so that data will be limited to flood releases. CDFW will have a meeting with USFWS, NMFS, and TID in April to discuss flow planning for the Tuolumne River. The Water Board wishes to participate in this discussion.

Stanislaus River Forum (SRF) Call Review

- Reclamation reported that the meeting primarily consisted of updates on operations, water quality, fish monitoring, and a discussion on the recent rockslide.
- One member of the public attended the meeting.

Fish Monitoring

CDFW Fish Monitoring

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- O. mykiss/steelhead redd surveys began the week of 1/6/2025 and are expected to last through April.
    - CDFW began seeing Pacific Lamprey beginning the week of 3/3/2025.
    - Large numbers of Sacramento Sucker redds have been observed since the week of 2/24/2025.
- Mossdale Trawl continues to be solely operated by CDFW.

Questions and Comments

- NMFS asked if the O. mykiss carcass numbers are unusually high.
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- NMFS asked if there is a timeline in place for CDFW to continue covering Mossdale Trawl work previously done by USFWS in Lodi, CA.
    - CDFW shared that the normal operations schedule consists of solely CDFW covering this work from April through June. After June, USFWS will need to determine if they have sufficient staff to take on this task.

- USFWS shared that they received clearance to hire back some provisionary staff that were laid off in February and hope that will help with some of the workload.

FISHBIO Monitoring

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

- As of 3/16/2025, a total of 3,640 Chinook salmon have passed upstream of the Stanislaus River weir.
    - 20% (738 fish) were of adipose clipped.
- As of 3/16/2025, 20 O. mykiss have been observed passing the Stanislaus River weir.
    - 7 O. mykiss were over 16 inches long.
    - 30% were of adipose clipped.
- FISHBIO again noted that the Vaki RiverWatcher has been out of commission since 11/13/2024; the backup video system and/or trapping have been the primary monitoring method since then. No measurements are obtained using the backup system.

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

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- Peak catch occurred on 2/16/2025 with a total of 1,423 Chinook salmon captured.
- PSMFC is starting to see parr-size fish in the traps with fork lengths averaging approximately 50 mm in recent days.
- RST efficiency trials occurred on 2/13 and 3/5/2025 using hatchery-origin Chinook salmon from the Merced River Hatchery. Traps efficiency levels averaged 6% at flows of approximately 200 cfs.

Restoration Project Updates

- Reclamation did not have updates to provide for March.
- USFWS is still awaiting funding decisions for their projects.

Other Discussion Items

Water Transfers

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    - Peter Rietkerk, SSJID, confirmed that they did hold a meeting about water transfers, but it was not on the radar at the time of the meeting with Reclamation. Since then, SSJID and Oakdale Irrigation District have approved a CEQA notice of exemption. The water transfer is not confirmed yet, but they are in talks with Reclamation (contact is Drew Lessard, Area Manager of the Central CA office), Central Valley (CV) contractors, and state water contractors. SSJID is also aware that the hydrologic designation may or may not change based on the 4/1/2025 survey.
    - Reclamation will provide any updates to the SWT as they arise, but as of 3/19/2025, there is no operational planning needed for this effort.
    - CDFW asked if the water transfer, if approved, will move through the standard notification process that includes the Water Board.
        - SSJID relayed that they are not familiar with the official approval process.
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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, March 19, 2025

Agenda

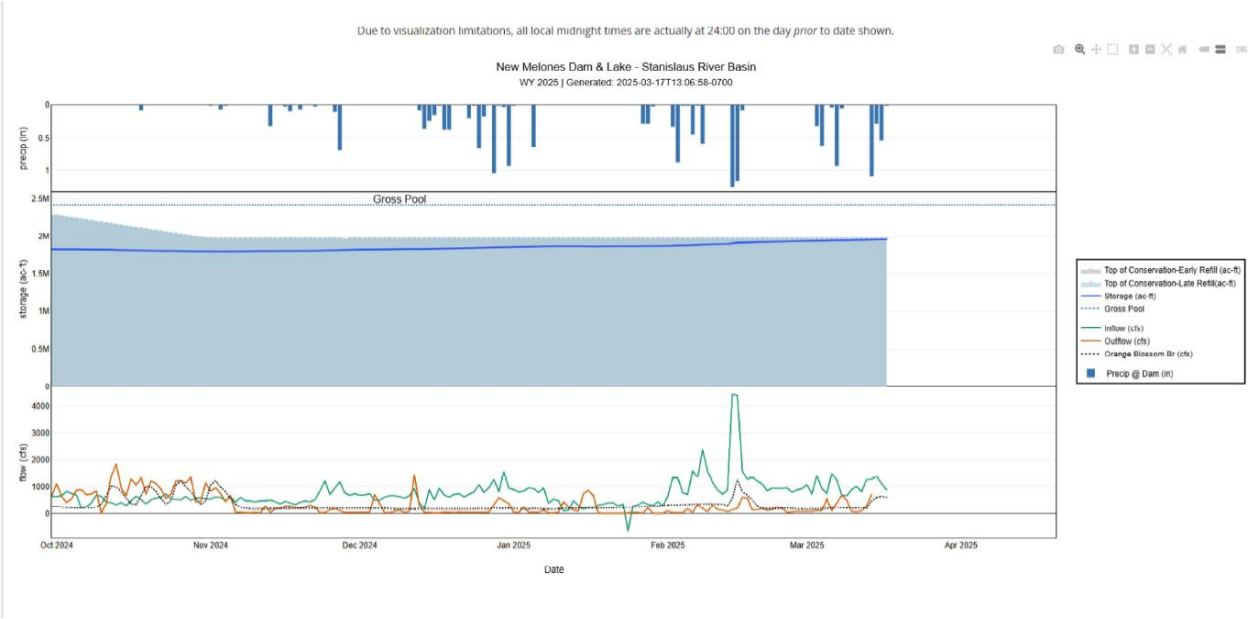
1. Introductions
2. Ground Rules[1]
3. Announcements
    a. Meeting will be recorded for notetaking purposes – Mia Schiappi, Kearns & West
    b. Color shading for water temperature at all sites on the SWT Current Conditions map is now public.
4. Operations Update and Forecasts/Hydrology – Kevin Thielen, USBR
5. Temperature Updates – Barbara Byrne, NMFS
    a. Updated Introduction

[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

    b. Orange Blossom Bridge Gauge Follow-Up

6. Spring Pulse Flow Discussion –Gretchen Murphey, CDFW and Zarela Guerrero, USBR
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 – 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 – Mia Schiappi, Kearns & West
12. Next Meeting: Wednesday, April 16, 2025



New Melones Dam & Lake – Stanislaus River Basin, 2025-03-17T13:06:58-0700

Graph shows the flow, storage, and precipitation for New Melones Dam and Lake from November 2024 to February 2025. The graph shows storage approximately 1.8M ac-ft in November 2024, with an outflow peak at 1900 cfs, and inflow drop below 500 cfs.

Tables for BDO

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

March 16, 2025
Run Date: March 17, 2025

Table 1. Reservoir Releases in Cubic Feet Per Second

Reservoir	Dam	WY 2024	WY 2025	15-Year Median
Trinity	Lewiston	307	1,986	311
Sacramento	Keswick	9,711	6,172	4,648
Feather	Oroville (SWP)	10,000	10,000	2,500
American	Nimbus	4,918	2,965	2,089
Stanislaus	Goodwin	1,505	602	336
San Joaquin	Friant	526	912	400

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	1,604	1,862	2,028	126
Shasta	4,552	3,280	3,911	3,803	116
Folsom	977	553	645	629	114
New Melones	2,420	1,523	2,005	1,955	128
Fed. San Luis	966	680	963	758	111
Total North CVP	11,363	7,641	9,386	9,173	120
Millerton	521	306	361	317	104
Oroville (SWP)	3,425	2,401	3,004	2,911	121

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	844	66	1,089	497	170
Shasta	4,109	1,279	6,020	2,665	154
Folsom	1,067	181	3,071	1,227	87
New Melones	251	N/A	1,001	410	61

Reservoir	Current WY 2025	WY 1977	WY 1983	15-Yr Avg	% O 15 Yr Avg
Millerton	326	104	1,396	445	73

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	30.64	8.64	44.80	24.35 (64)	126	0.11
Sacramento at Shasta Dam	59.35	9.65	89.31	47.15 (69)	126	0.75
American at Blue Canyon	57.97	13.80	84.50	50.16 (50)	115	0.00
Stanislaus at New Melones	16.17	N/A	36.67	21.11 (47)	77	0.01
San Joaquin at Huntington LK	24.02	9.40	66.10	30.54 (51)	79	0.00

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

New Melones Lake Daily Operations, February 2025, Run Date: 3/17/2025

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
14	1,044.09	1,910.7	8.3	4,380	205	0	0	3	0.01	1.17
15	1,044.27	1,912.7	1.9	1,607	622	0	0	7	0.02	0.08
16	1,044.39	1,914.0	1.3	1,267	594	0	0	21	0.06	0.00
17	1,044.61	1,916.3	2.4	1,350	141	0	0	14	0.04	0.00
18	1,044.80	1,918.4	2.0	1,209	148	0	0	28	0.08	0.00
19	1,044.95	1,920.0	1.6	1,090	198	0	0	77	0.22	0.00
20	1,045.08	1,921.4	1.4	853	128	0	0	17	0.05	0.00
21	1,045.22	1,922.9	1.5	949	154	0	0	31	0.09	0.00
22	1,045.34	1,924.2	1.3	938	256	0	0	28	0.08	0.00

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
23	1,045.47	1,925.6	1.4	941	204	0	0	28	0.08	0.00
24	1,045.63	1,927.4	1.7	956	42	0	0	42	0.12	0.00
25	1,045.76	1,928.8	1.4	800	63	0	0	28	0.08	0.00
26	1,045.90	1,930.3	1.5	886	88	0	0	35	0.10	0.00
27	1,046.05	1,931.9	1.6	929	75	0	0	35	0.10	0.00
28	1,046.22	1,933.7	1.8	1,065	86	0	0	49	0.14	0.00
Totals	N/A	N/A	65.3	38,372	4,780	0	0	697	2.01	4.80
Acre-Feet	N/A	N/A	65,300	76,111	9,481	0	0	1,382	N/A	N/A

Comments:

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

Summary Precipitation

This Month	4.80
October 1, 2024 to Date	12.26

Summary: Release (acre- feet)

Release (acre-feet)	N/A
Power	9,481
Spill	0
Outlet	0
Total	**9,481**

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

New Melones Lake Daily Operations, March 2025, Run Date: 3/17/2025

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
N/A	N/A	1,933.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	1,046.33	1,934.9	1.2	744	80	0	0	63	0.18	0.00
2	1,046.56	1,937.4	2.5	1,412	118	0	0	35	0.10	0.33
3	1,046.71	1,939.1	1.6	936	111	0	0	4	0.01	0.62
4	1,046.74	1,939.4	0.3	755	573	0	0	18	0.05	0.00
5	1,046.99	1,942.1	2.7	1,495	106	0	0	21	0.06	0.04
6	1,047.14	1,943.7	1.6	1,241	411	0	0	7	0.02	0.93
7	1,047.14	1,943.7	0.0	703	696	0	0	7	0.02	0.05
8	1,047.16	1,944.0	0.2	677	518	0	0	49	0.14	0.00
9	1,047.30	1,945.5	1.5	894	83	0	0	42	0.12	0.00
10	1,047.46	1,947.2	1.7	1,011	66	0	0	67	0.19	0.00
11	1,047.58	1,948.5	1.3	821	116	0	0	46	0.13	0.00
12	1,047.75	1,950.4	1.9	1,255	287	0	0	35	0.10	0.00
13	1,047.84	1,951.4	1.0	1,271	724	0	0	53	0.15	1.10
14	1,048.02	1,953.3	2.0	1,386	393	0	0	4	0.01	0.29
15	1,048.14	1,954.6	1.3	1,114	449	0	0	4	0.01	0.54
16	1,048.20	1,955.3	0.7	894	525	0	0	39	0.11	0.01
Totals	N/A	N/A	21.5	16,609	5,256	0	0	494	1.40	3.91
Acre-Feet	N/A	N/A	21,500	32,944	10,425	0	0	980	N/A	N/A

Comments:

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

Summary Precipitation

This Month	3.91
October 1, 2021 to Date	16.17

Summary: Release (acre-feet)

Release (acre-feet)	N/A
Power	10,425
Spill	0
Outlet	0
Total	**10,425**

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

Tulloch Reservoir Daily Operations, February 2025, Run Date: 3/17/2025

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
14	501.38	56,806	-309	886	205	1,042	0	0	0
15	501.99	57,479	673	1,073	622	733	0	0	1
16	502.55	58,106	627	963	594	645	0	0	2
17	502.23	57,748	-358	255	141	434	0	0	1
18	502.21	57,725	-23	227	148	154	68	14	3
19	502.34	57,871	146	293	198	211	0	0	8
20	502.32	57,848	-23	200	128	210	0	0	2
21	502.36	57,893	45	236	154	210	0	0	3
22	502.65	58,218	325	385	256	79	139	0	3
23	502.73	58,308	90	271	204	0	223	0	3

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)
24	502.43	57,972	-336	59	42	0	224	0	4
25	502.22	57,736	-236	97	63	0	130	83	3
26	502.10	57,602	-134	141	88	0	0	205	4
27	501.95	57,435	-167	124	75	76	0	128	4
28	501.82	57,291	-144	137	86	205	0	0	5
Totals	NA	NA	1,208	9,066	4,780	7,175	784	430	70
Acre-Feet	NA	NA	1,208	17,982	9,481	14,232	1,555	853	139

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	14,232
Spill	1,555
Outlet	853
Total	**16,640**

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

Tulloch Reservoir Daily Operations, March 2025, Run Date: 3/17/2025

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	57,291	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	501.15	56,552	-739	97	80	464	0	0	6
2	500.46	55,802	-750	242	118	616	0	0	4
3	499.74	55,026	-776	162	111	553	0	0	0
4	500.11	55,422	396	693	573	354	0	137	2
5	499.25	54,503	-919	239	106	700	0	0	2
6	499.41	54,673	170	639	411	552	0	0	1
7	500.75	56,116	1,443	1,139	696	410	0	0	1
8	501.47	56,905	789	786	518	383	0	0	5
9	500.94	56,322	-583	92	83	382	0	0	4
10	500.32	55,650	-672	54	66	386	0	0	7
11	499.88	55,175	-475	151	116	385	0	0	5
12	499.98	55,282	107	442	287	353	0	32	3
13	500.82	56,192	910	1,211	724	747	0	0	5
14	500.87	56,246	54	782	393	755	0	0	0
15	500.63	55,986	-260	780	449	911	0	0	0
16	500.44	55,780	-206	847	525	947	0	0	4
Totals	N/A	N/A	-1,511	8,356	5,256	8,898	0	169	49
Acre-Feet	N/A	N/A	-1,511	16,574	10,425	17,649	0	335	97

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	17,649
Spill	0
Outlet	335
Total	**17,984**

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

Goodwin Reservoir Daily Operations, February 2025, Run Date: 3/17/2025

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
14	360.16	548	-16	1,042	0	1,101	0	0
15	360.09	543	-5	733	0	769	0	0
16	360.02	538	-5	645	0	680	0	0
17	359.89	529	-9	434	0	464	0	0
18	359.76	520	-9	236	0	246	0	0
19	359.74	519	-1	211	0	210	0	0
20	359.74	519	0	210	0	210	0	0
21	359.74	519	0	210	0	211	0	0
22	359.76	520	1	218	0	223	0	0

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
23	359.76	520	0	223	0	234	0	0
24	359.76	520	0	224	0	235	0	0
25	359.74	519	-1	213	0	221	0	0
26	359.73	518	-1	205	0	202	0	0
27	359.73	518	0	204	0	202	0	0
28	359.73	518	0	205	0	201	0	0
Totals	N/A	N/A	-2	8,389	0	8,647	0	0
Acre-Feet	N/A	N/A	-2	16,640	0	17,151	0	0

Joint Main Operated by SSJID and OID.

Summary: Release (acre-feet)

Joint Main Canal	0
South Main Canal	0
Outlet	0
Spill	17,151
Total	**17,151**

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

Goodwin Reservoir Daily Operations, March 2025, Run Date: 3/17/2025

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	518	N/A	N/A	N/A	N/A	N/A	N/A
1	359.74	519	1	464	0	206	233	72
2	359.75	520	1	616	0	207	366	61
3	359.75	520	0	553	0	206	328	36
4	359.75	520	0	491	0	205	297	0
5	359.76	520	0	700	0	223	465	0
6	359.75	520	0	552	0	204	351	0
7	359.75	520	0	410	0	203	223	0
8	359.75	520	0	383	0	202	201	0
9	359.75	520	0	382	0	202	201	0
10	359.76	520	0	386	0	202	205	0
11	359.75	520	0	385	0	203	208	0
12	359.76	520	0	385	0	205	209	0
13	360.03	539	19	747	0	583	211	0
14	360.03	539	0	755	0	604	211	0
15	360.03	539	0	911	0	606	356	0
16	360.03	539	0	947	0	602	393	0
Totals	N/A	N/A	21	9,067	0	4,863	4,458	169
Acre Feet	N/A	N/A	21	17,984	0	9,646	8,842	335

Joint Main Operated by SSJID and OID.

Summary: Release (acre-feet)

Joint Main Canal	8,842
South Main Canal	335
Outlet	0
Spill	9,646
Total	**18,823**

Table 5. New Melones 50% Exceedance

Month	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Storage (TAF)	1954	1914	1891	1778	1708	1652	1604	1552	1565	1583	1619	1670
Releases (TAF)2	38	146	158	192	110	90	77	82	22	21	12	28
Inflow (TAF)3	60	110	141	85	49	41	35	33	36	40	50	80

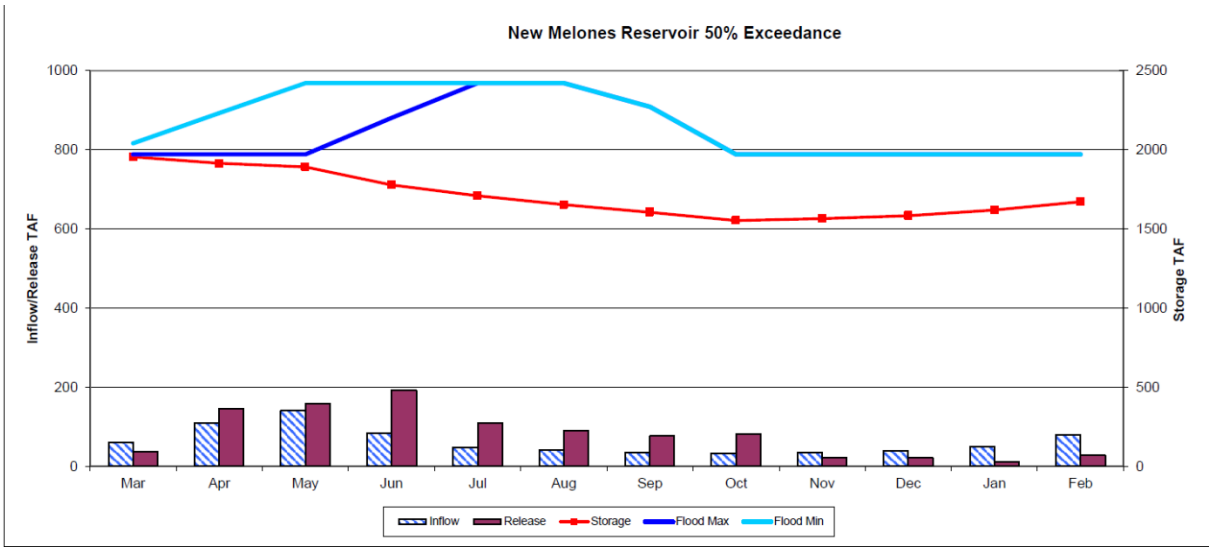


Figure 1. New Melones Reservoir 50% Exceedance

Figure 1 is a graphs that show the New Melones Reservoir Exceedance. The graph shows the New Melones Reservoir 50% exceedance with inflow and release being the highest from April to July.

Table 6. New Melones 90% Exceedance

Month	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Storage (TAF)	1954	1865	1750	1576	1496	1435	1385	1330	1337	1345	1351	1347
Releases (TAF)2	38	152	165	207	107	87	74	82	22	21	12	28
Inflow (TAF)3	60	67	56	39	34	33	29	30	30	30	20	25

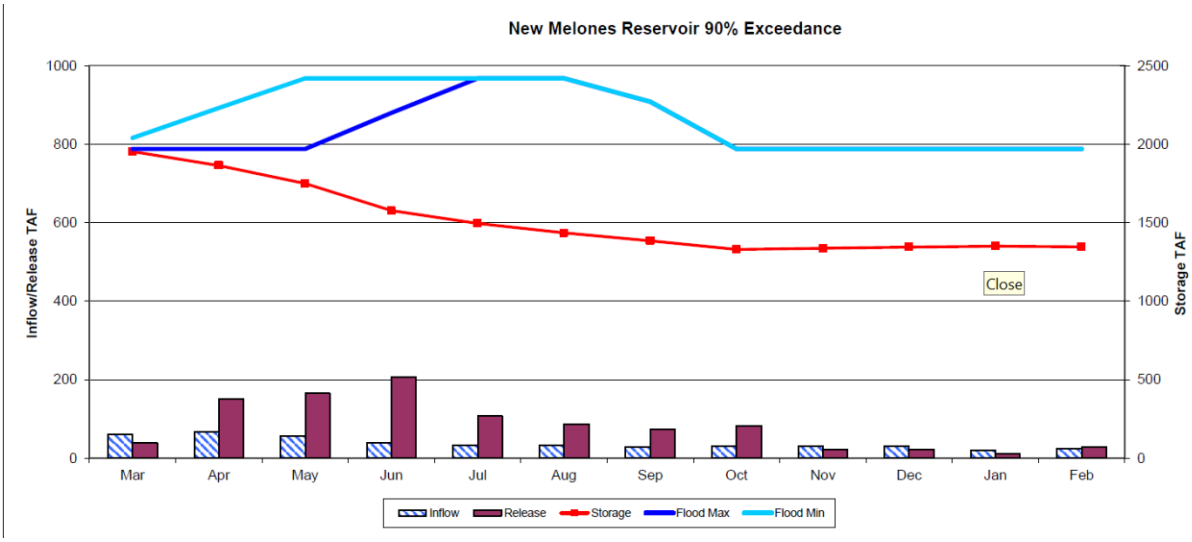


Figure 2. New Melones Reservoir 90% Exceedance

Figure 2 is a graph that shows the New Melones Reservoir Exceedance. The graph shows the New Melones Reservoir 90% exceedance with the highest release being from April to July.

March 2025 Water Temperature and Fish Monitoring Update

Year-to-Date Flows

Goodwin releases since October 1, 2024, are shown in Figure 3.

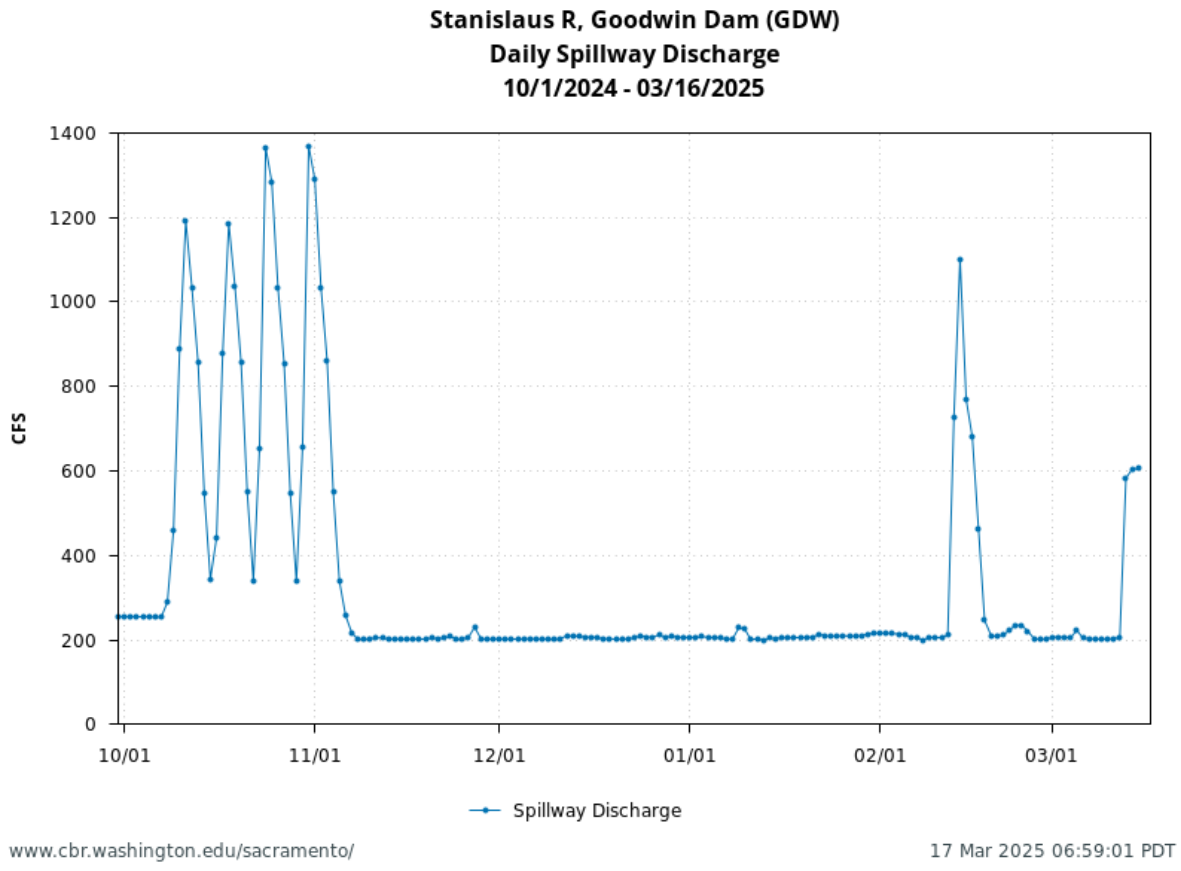


Figure 3. Goodwin (daily) releases to the Stanislaus River since October 1, 2024. Data from GDW station on CDEC.

Figure 3 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 February 15, 2025, 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 and to about 600 cfs on March 16,2025.

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 January 2025 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 January 2025 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.

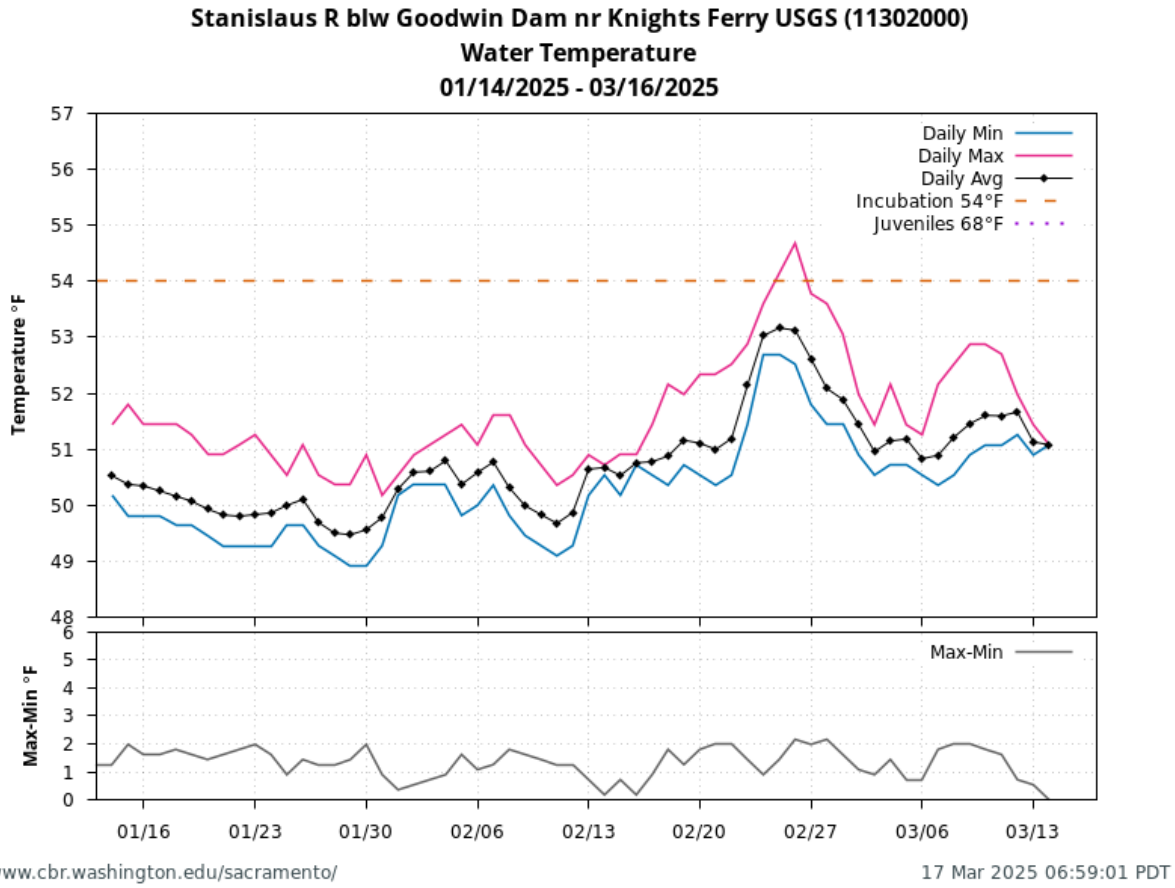


Figure 4. Daily water temperatures on the Stanislaus River upstream of Knights Ferry since January 14, 2025. Data from USGS gage 11302000 on NWIS; temperature threshold reference line added by SWT.

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).

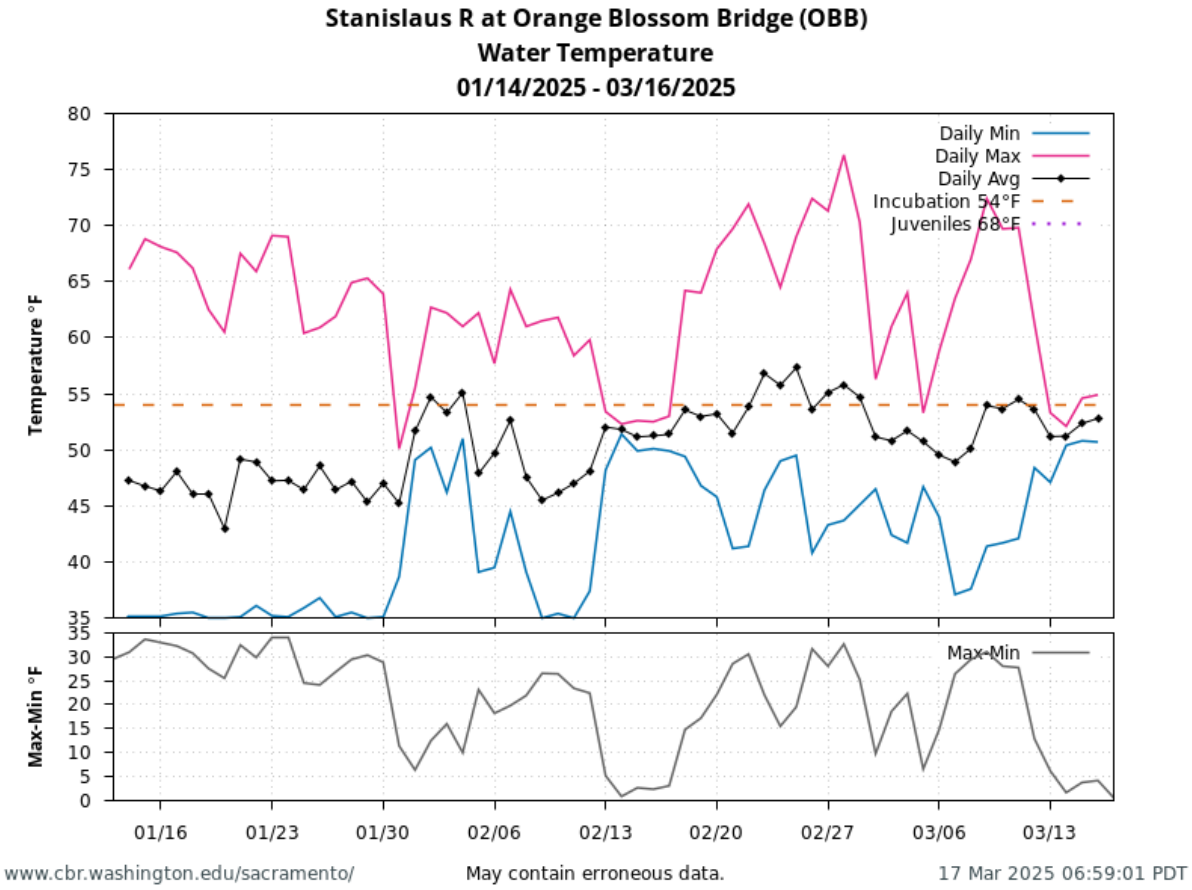


Figure 5. Stanislaus (hourly) water temperatures at Orange Blossom Bridge since January 14, 2024. Data from OBB station on CDEC. Please be aware that due to malfunctions with the temperature gauge at Orange Blossom Bridge, the data should be noted as unreliable.

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.

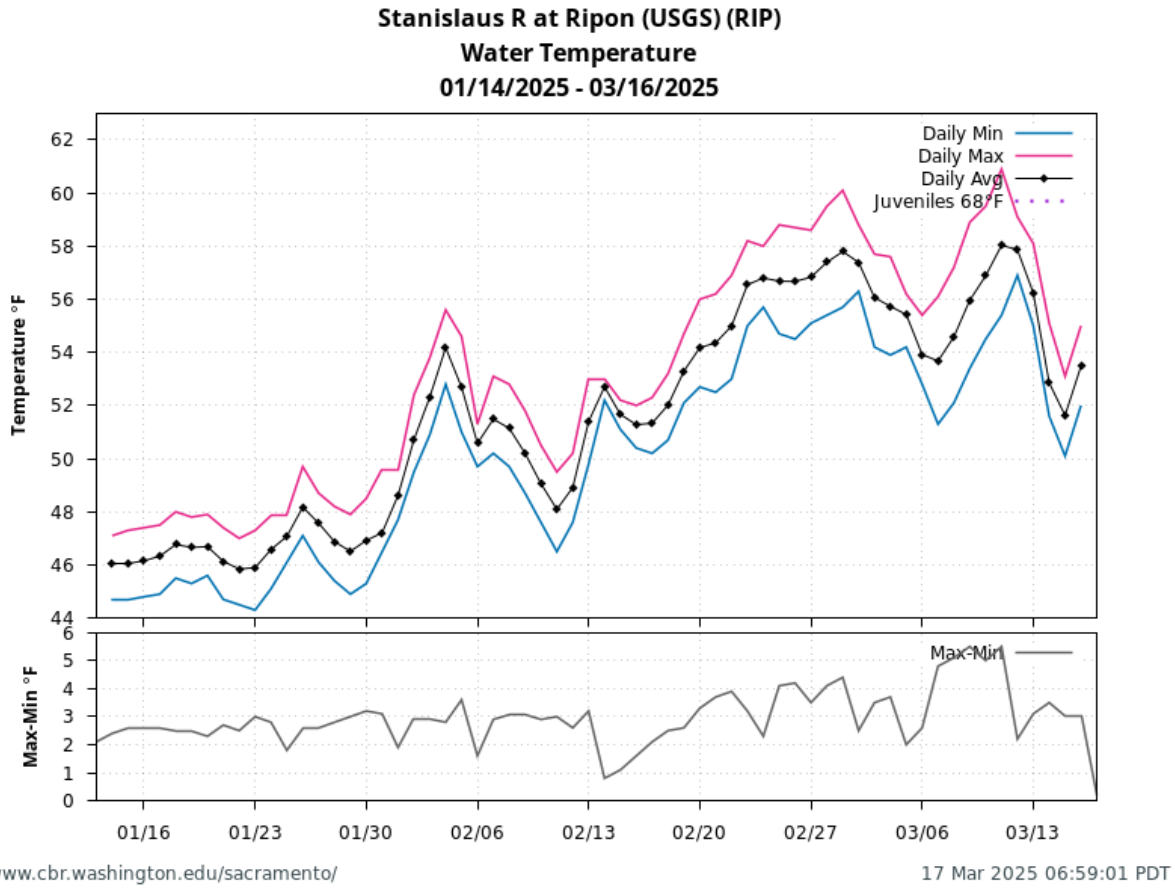


Figure 6. Stanislaus water temperatures at Ripon since January 14, 2025. Data from RIP station on CDEC.

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).

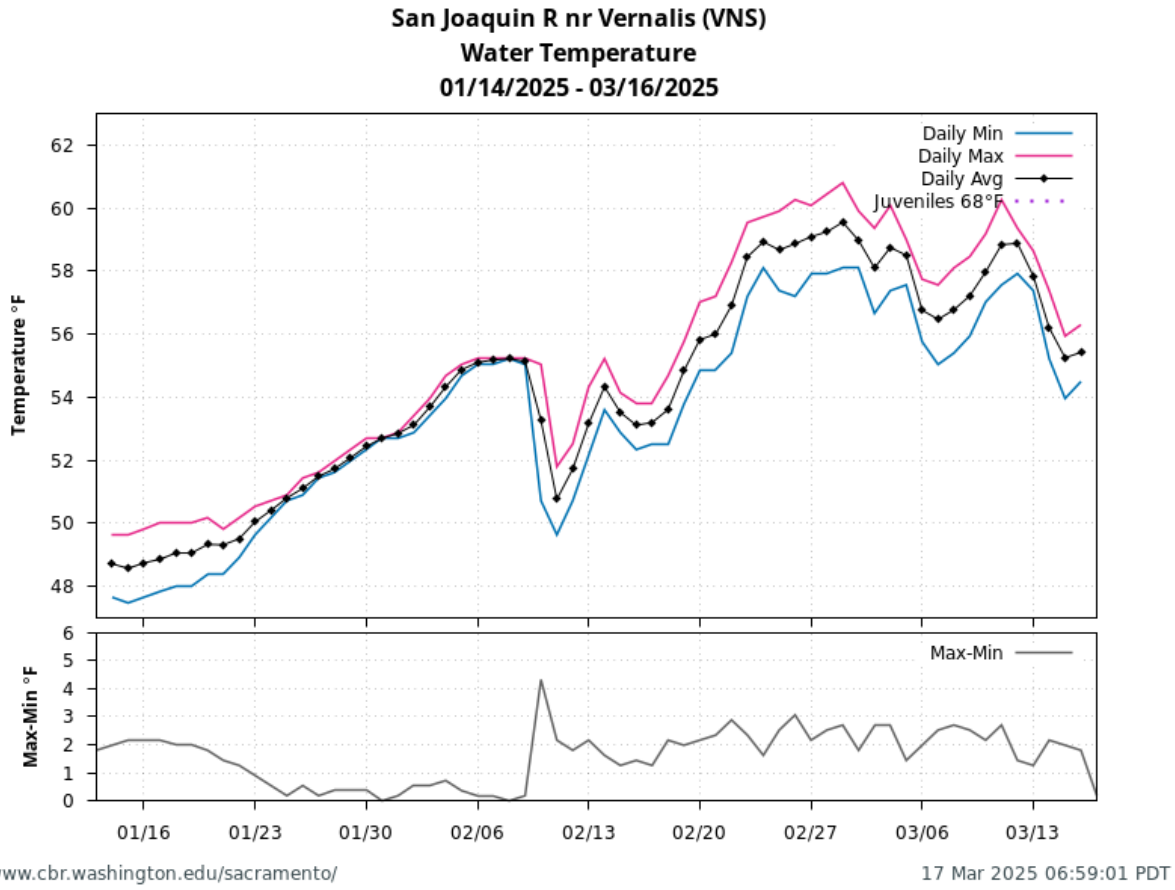


Figure 7. San Joaquin River (15-minute) water temperatures at Vernalis since January 14, 2025. Data from VNS station on CDEC. Note that, unlike in the previous figures, temperature is reported in degrees Celsius. 8°C=46.4°F; 10°C=50°F; 12°C=53.6°F; 14°C=57.2°F; 16°C=60.8°F; 18°C=64.4°F; 20°C=68.0°F; 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).

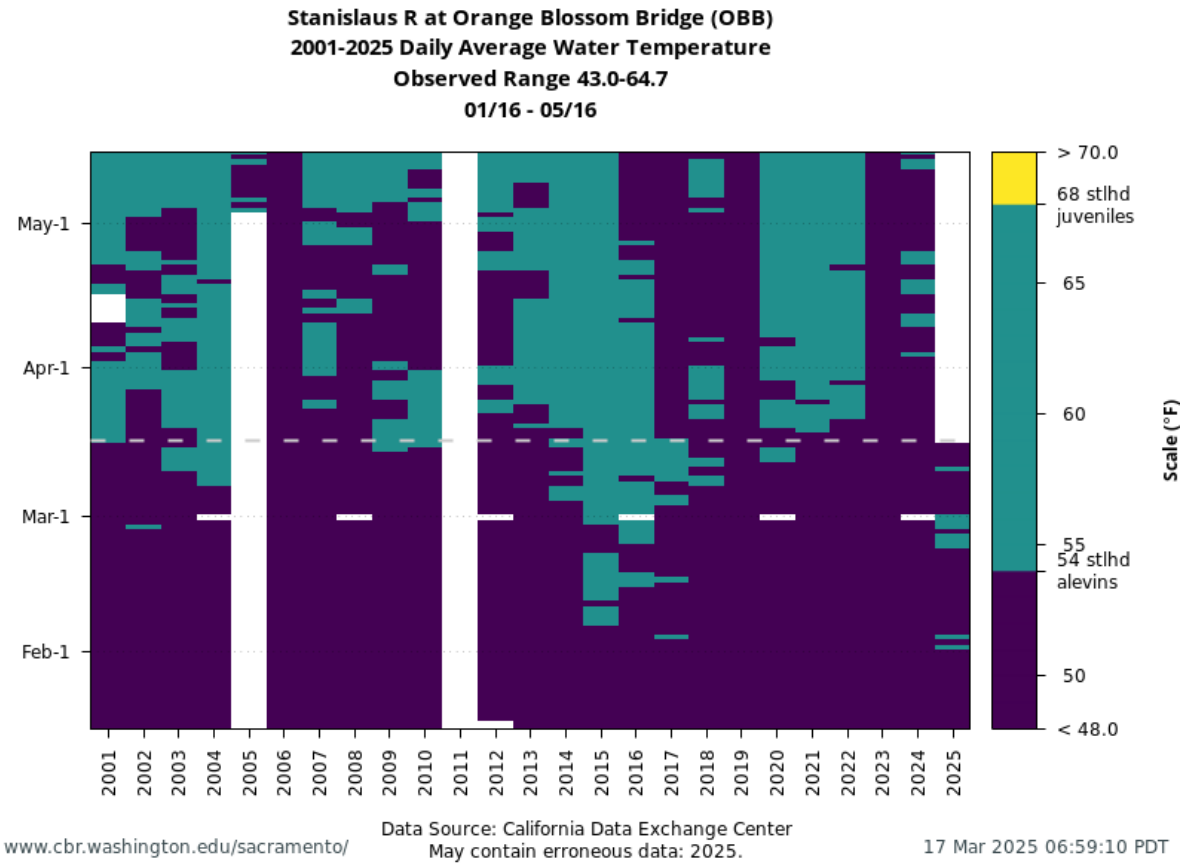


Figure 8. Stanislaus River water temperatures at Orange Blossom Bridge for WY 2001 to present. Data from SacPAS website; temperature threshold reference lines added by SWT. Please be aware that due to malfunctions with the temperature gauge at Orange Blossom Bridge, the data should be noted as unreliable.

Figure 8 is a bar chart showing water temperatures at Orange Blossom Bridge for WY 2001 to present for January to May. Blossom readings were flagged due to incomplete or potentially inaccurate data due to unidentified equipment issues.

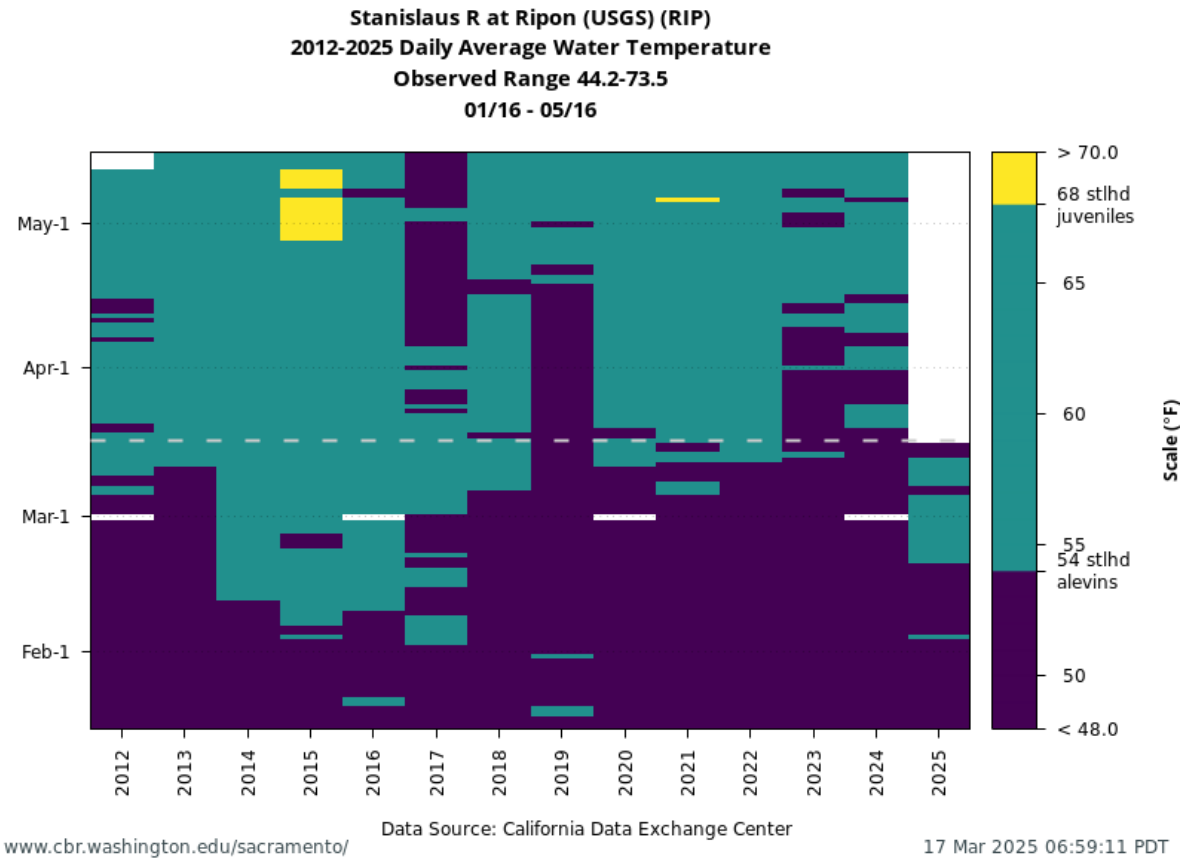


Figure 9. Stanislaus River water temperatures at Ripon for WY 2011 to present. Figure from SacPAS website using RIP station data from CDEC; temperature threshold reference line added by SWT.

Figure 9 is a bar chart showing water temperatures at Ripon for WY 2011 to present for January to May. The chart shows that during this time, the daily average water temperature was mostly above 54 degrees Fahrenheit.

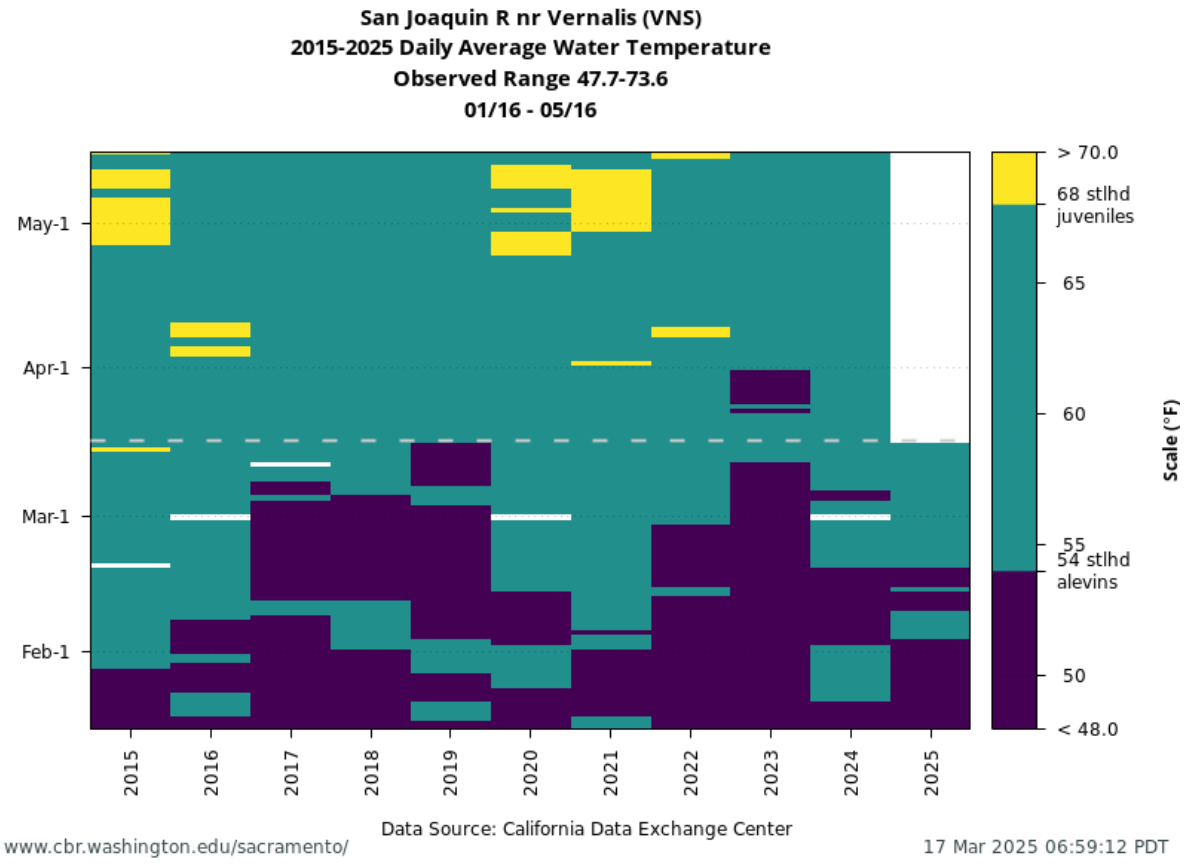


Figure 10. San Joaquin River water temperatures at Vernalis for WY 2014 to present. Figure from SacPAS website using VNS station data from CDEC; temperature threshold reference line added by SWT.

Figure 10 is a bar chart showing water temperatures at Vernalis for WY 2014 to present for February to April. The chart shows that during this time, the daily average water temperature was mostly above 54 degrees Fahrenheit, with periods of temperatures above 68 degrees Fahrenheit in May 2015, 2020 and 2021.

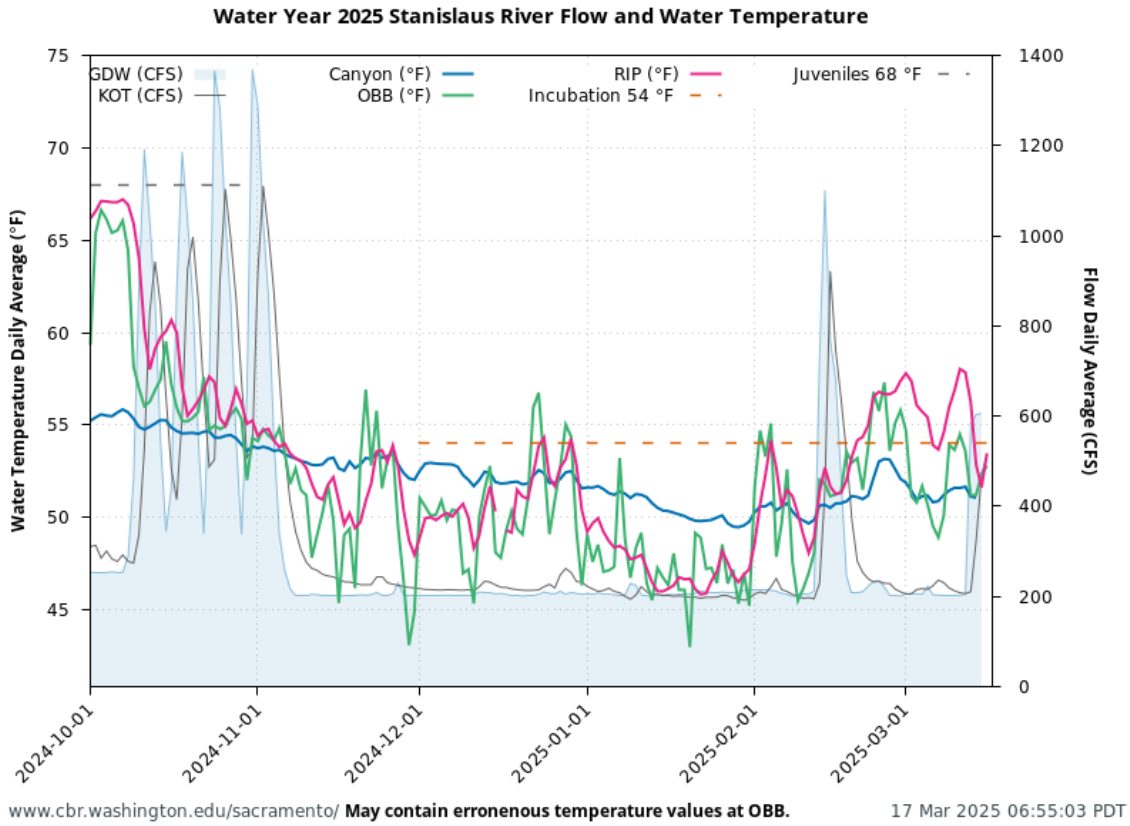


Figure 11. Stanislaus River flow and water temperatures from October 1, 2024 to March 17, 2025. Data (including temperature threshold reference lines) from SacPAS website. Please be aware that due to malfunctions with the temperature gauge at Orange Blossom Bridge, the data should be noted as unreliable.

Figure 11 is a line chart showing river flow and water temperatures on the Stanislaus River. The graph shows decreasing temperatures and flow October 2024 – March 2025.

Item 6. Flow Planning

CDFW & USBR Updates

Updates to be shared/discussed at March meeting.

Item 7. Stanislaus River Forum (SRF) Call Review

USBR Updates

Receive live update from USBR staff on the 3/18 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. Preliminary estimate: 2,546

Steelhead redd surveys: Began 1/6/2025.

Steelhead Redd Survey

Table 7. 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
7	2/17/2025	9	42	5	1	0	0	0	0	0	0	77	216
8	2/24/2025	1	34	8	0	0	0	0	0	0	0	847	200
9	3/3/2025	3	15	6	1	0	0	0	3	3	0	785	223
10	3/10/2025	0	21	6	3	0	0	0	2	5	0	764	282

*- Data revised from previous handout.

RBT- O. mykiss

CHN- Chinook salmon

PL- Pacific Lamprey

SASU- Sacramento Sucker

Update on Fish Monitoring (Juveniles)

Mossdale Trawl

- Operations shifted from joint operations (USFWS and CDFW) to CDFW-only on 2/18/2025.

Table 8. Data on Mossdale Trawl catch through 3/12/2025

Date	Catch	Comments
2/18/2025	2 CHN	FL 36,36
2/21/2025	1 CHN	FL 39
3/10/2025	2 ad-clip	Retained for CWT
3/12/2025	2 ad-clip	Retained for CWT

Stanislaus Weir

As of 3/16/2025, a total of 3,640 adult Chinook salmon have passed upstream of the Stanislaus River weir (Table 3). 738 (20%) of the adults were adipose fin clipped (indicating hatchery origin). A total of 20 O. mykiss (Table 4) have been observed passing the Stanislaus River weir as of 3/16/2025, with 7 being over 16 inches. Six out of 20 (30%) of the O. mykiss were adipose fin clipped.

Table 9. 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

Year	Monitoring Start date	Net Passage To Date	Season Total
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
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

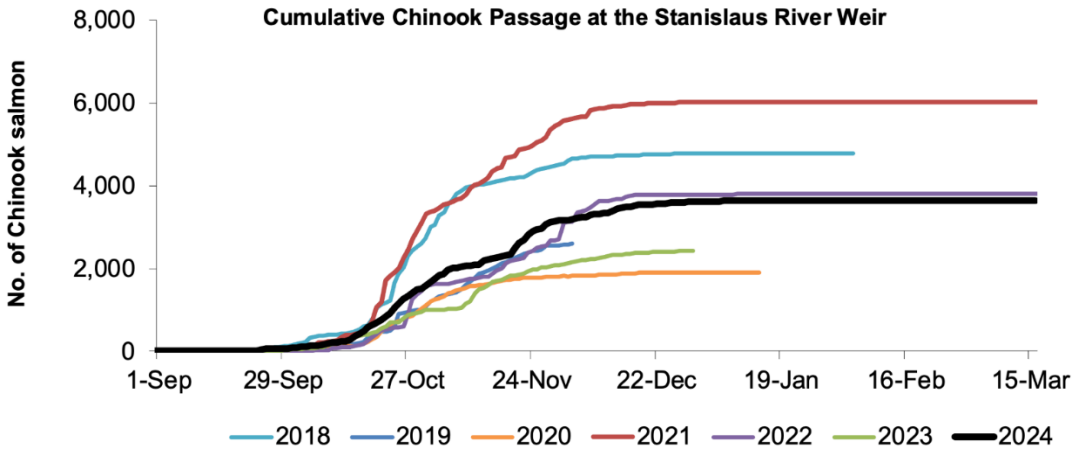


Figure 12. Cumulative Chinook passage at the Stanislaus River weir.

Figure 12 is a line chart showing the cumulative Chinook passage. The majority of Chinook passage occurred October – March 2021.

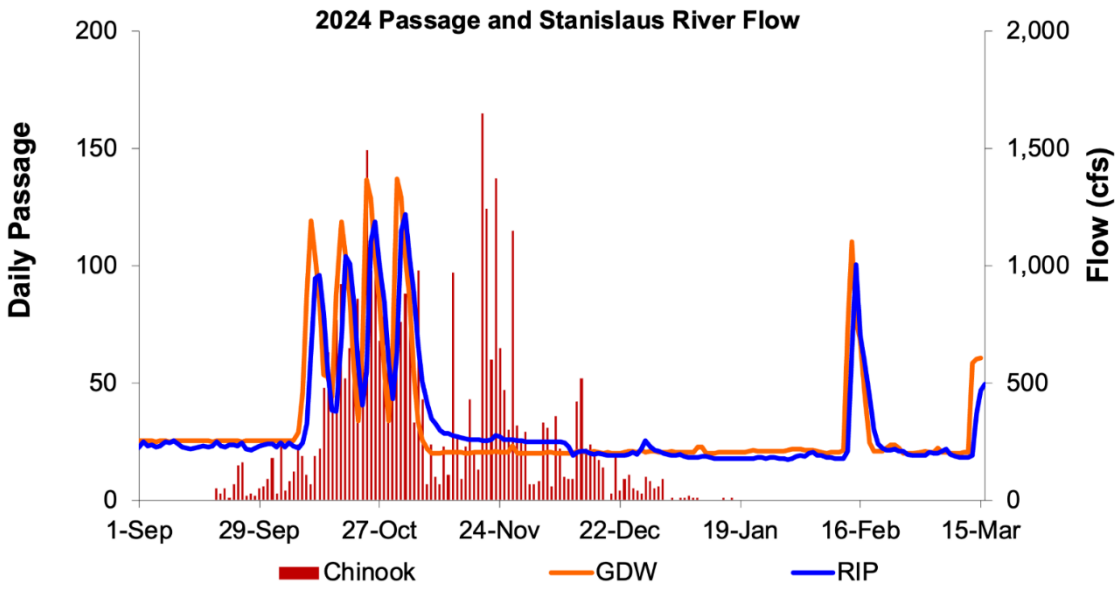


Figure 13. 2024-2025 passage and Stanislaus River flow

Figure 13 is a bar chart showing the 2024 passage and Stanislaus Rive flow, with the highest peaks occurring throughout October 2024 and February 2025.

Table 10. O. mykiss passage at the Stanislaus River Weir as of 3/16/2025 of each year and the season totals.

Year	Monitoring Start date	Net Passage To Date	Season Total
2024	9/5/24	20	20
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

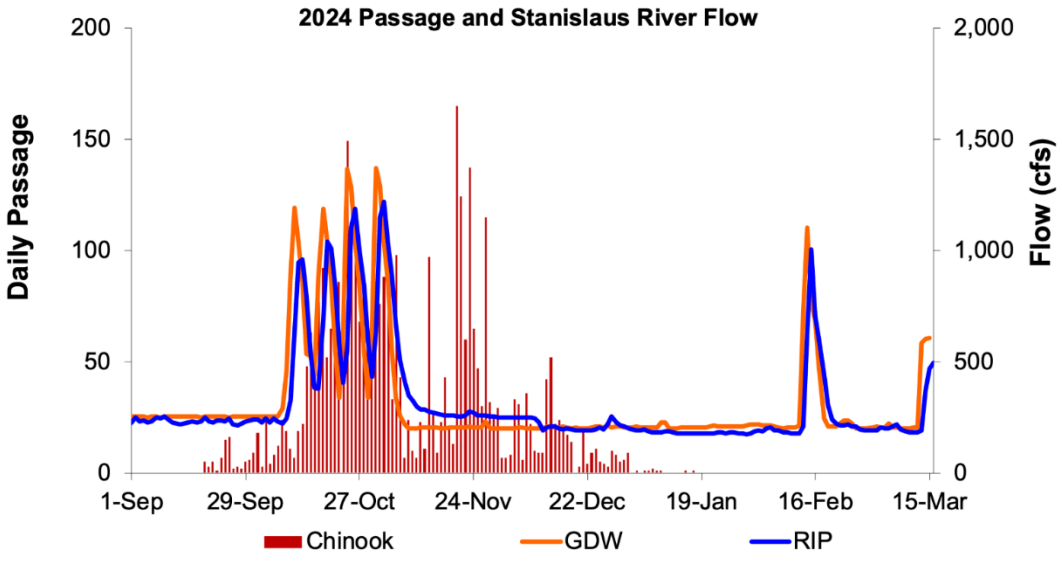


Figure 14. Graph of 2024-2025 O. mykiss passage and Stanislaus River flow.

Figure 14. 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 2024 and again in February 2025.

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.

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.

As of 3/11/2025, PSMFC has captured a total of 2,558 unmarked Chinook salmon. The current peak in daily unmarked Chinook salmon catch occurred on 2/16/2025 with a total of 1,423 captured. The majority of salmon have been fry, though there has been a steady increase in parr- sized fish and fork lengths have averaged approximately 50 mm over the past 7 days.

Two RST efficiency trials have been conducted at the Caswell RST site. Two trials/releases occurred on 2/13 and 3/5/2025 using hatchery-origin Chinook salmon provided by the Merced River Hatchery at approximately 40-50 mm, resulting in trap efficiencies of approximately 6% at flows of approximately 200 cfs.

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]

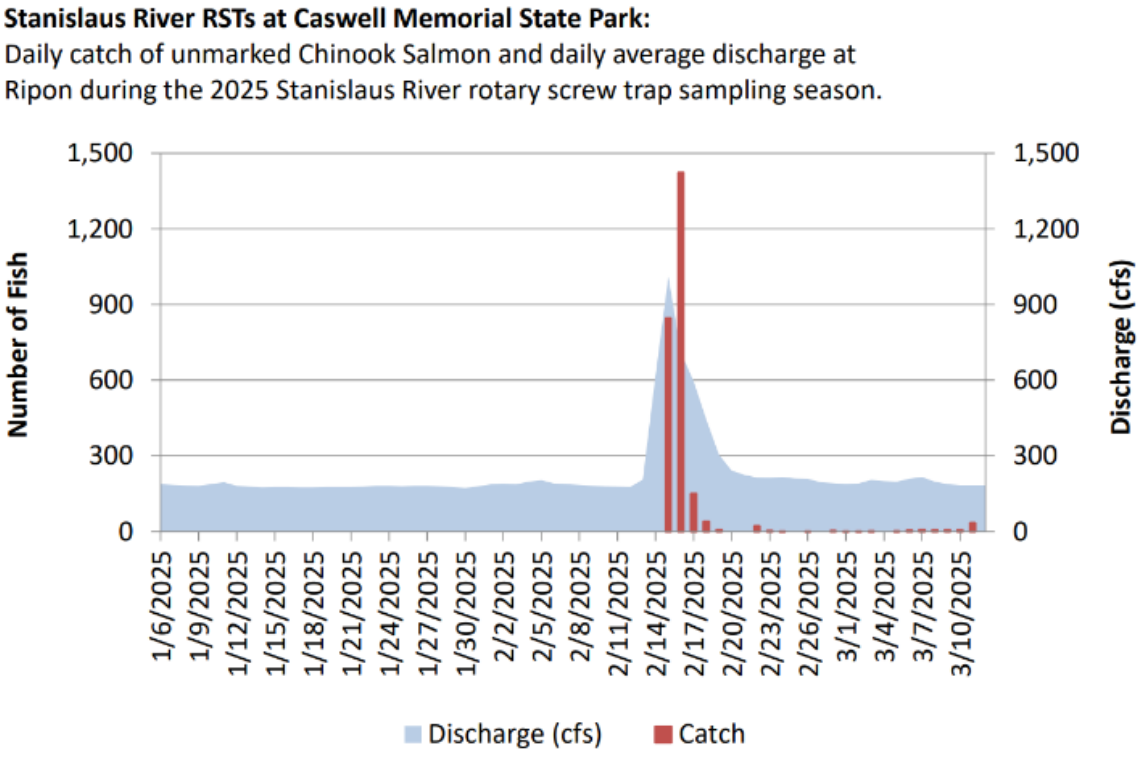


Figure 15. Stanislaus River RSTs at Caswell Memorial State Park

Figure 15. Graph is a bar chart of daily catch of unmarked Chinook Salmon and daily average discharge at Ripon during the 2025 Stanislaus River rotary screw trap sampling season. The highest peaks occur throughout February 2025.

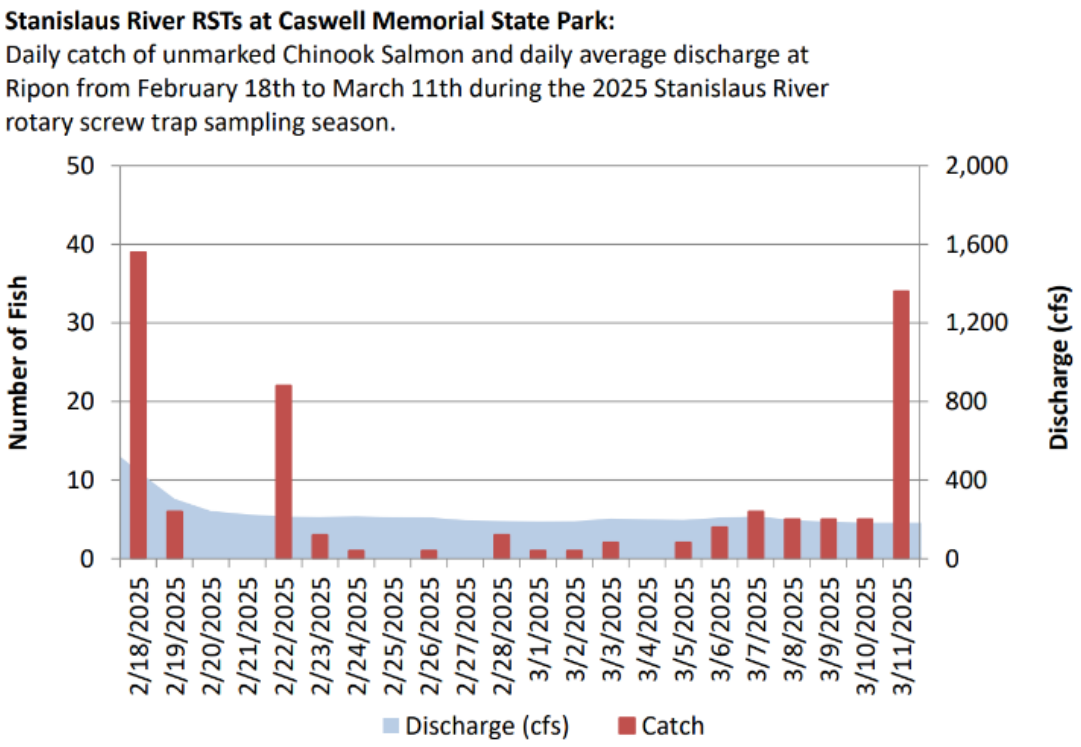


Figure 16. Stanislaus River RSTs at Caswell Memorial State Park

Figure 16. Graph is a bar chart of daily catch of unmarked Chinook Salmon and daily average discharge at Ripon from February 18th to March 11th during the 2025 Stanislaus River rotary screw trap sampling season. The highest peaks occur throughout mid February 2025 and early March 2025.

Fish Health Issues at the Caswell RSTs

Figure 17. Fish Health Issues at the Caswell RSTs.

Figure 17. Image showing a fish with health issues at the Caswell RSTs.

Figure 18. Fish Health Issues at the Caswell RSTs.

Figure 18. Image showing a fish with health issues at the Caswell RSTs.

Figure 19. Fish Health Issues at the Caswell RSTs.

Figure 19. Image showing a fish with health issues at the Caswell RSTs.

Figure 20. Fish Health Issues at the Caswell RSTs.

Figure 20. Image showing a fish with health issues at the Caswell RSTs.

Figure 21. Fish Health Issues at the Caswell RSTs.

Figure 21. Image showing a fish with health issues at the Caswell RSTs.

Item 9. Restoration Project Updates

Applicable updates to be shared at the March meeting.