BUREAU OF RECLAMATION

Stanislaus Watershed Team

May 21, 2025

Members Attending

- USBR: Brian Willard, Cat Pien, Chase Ehlo, Joel Fenolio, Kevin Thielen, Mechele Pecheco, Myrna Girald Perez, Peggy Manza
- USFWS: N/A
- CDFW: Gretchen Murphey, Crystal Rigby
- NMFS: Evan Sawyer, Rachael Alcala
- DWR: Mike Ford
- SWRCB: Chris Carr, Yongxuan Gao
- PSMFC: N/A
- Cramer Fish Sciences: Kirsten Sellheim
- SSJID: Peter Rietkerk
- FISHBIO: N/A
- Stockton East Water District (SEWD): N/A
- WAPA: N/A
- Attorney Offices: Liliana Selke
- Kearns & West: Tom Fischer, Bethany Taylor

Action Items

- Kearns & West to distribute the presentation slides from Cramer Fish Sciences.

Announcements

- NMFS shared that Evan Sawyer will be attending SWT meetings on a regular basis and providing monthly temperature updates. Barb Byrne will be focusing more on the Delta. Rachael Alcala will also be in attendance when available.

        - Kearns & West suggested planning a celebration for Barb Byrne, NMFS, who has participated in SWT since its founding.
- NMFS Shared that Garwin Yip will be retiring in June and his position will not be backfilled. NMFS will keep SWT informed of any other organizational changes as they are able to be shared.

Presentation: Restored Seasonally Inundated Habitat Supports Juvenile Salmonid Rearing and Growth on Two San Joaquin River Tributaries, Cramer Fish Sciences

- Kirsten Sellheim, Cramer Fish Sciences (Cramer), presented to the SWT. A copy of the slides will be distributed via email to the SWT.
- Question and Comments
    - USBR asked if the study results inspired Cramer to change anything about the restoration project or informed the restoration design.
        - Cramer responded that the side channels are great at both sites, but there wasn't much space for building out laterally. Other sites have had more space for widening the channels, so that was a lesson learned. We had more response from fish in the Merced River in regards to seeing fish rearing for longer time periods. Any time we can maximize acres produced is a good thing. Also, it's important to have sites that inundate under a broad range of flow conditions with sections turning on and off depending on the flow. The region had three years of drought after building this floodplain project on the Merced. We benefited during a flood year from having pockets that turned on and off. As flows increased and then receded, other sites came back on. This allowed fish to stay in the system under a broader range of flow conditions. This is important in an area like California where major flow fluctuations are seen each year along with climate extremes.
    - USBR asked if the larger sites resulted in any fish stranding.
        - Cramer said they have seen a little bit of stranding and are working to better track stranding impacts on fish. That is a high risk for these floodplain projects. Cramer has been working on the Yuba River for four years to track stranding pools. They enumerate the fish and note where [the pools] disconnect and reconnect. The water quality in those pools is good, especially early in the season. The fish that were in the pools come up the main channel. Later in

the season, it's a risk because of warmer air temperatures. In that project, we see tens of thousands of fish using the site in a positive way. The highest number of fish seen stranded is around 100 fish. Cramer is doing a cost-benefit analysis on that site. They have another project occurring on the Stanislaus at Kerr Park where they are trying to track stranding impacts. They are trying to acquire more quantitative data for a better understanding.

- SSJID asked if there were other factors in terms of inundation times, flow rates, etc?
    - Cramer responded that the side channel disconnected once during the study, allowing some fish to escape out of the side channel before it dried up and then was re-inundated. The tagged fish that could have stayed under the side channel during that year (2018), but that wasn't the case in 2019 on the Stanislaus River. The sites on the Merced were inundated continuously which allowed for more rearing opportunity during that year. If the sites connect and disconnect repeatedly, there's less opportunity for fish to establish territory and for prey production. Cramer believes those were big factors for the Merced River especially.
- CDFW asked about getting data in the interims between the dry and wet years.
    - Cramer confirmed that funding limitations restrict the amount of data to be collected during these more "average" times, and that the region is really at the mercy of the climate as far as when wet or dry years occur. Cramer had wanted to conduct the current study two years before it happened. Trying to inundate the restoration sites each spring is complicated. These are extensive research projects that take a lot of manpower and effort. Researchers were fortunate to have a wet year on the Merced River to be able to look more closely at how fish potentially use these sites for continuous inundation.
- The Water Board commented it would be good to do a study in the Merced during a dry year.
    - Cramer confirmed this and added that they will have an opportunity to repeat this study on the Yuba River to gain another years' worth of data for comparison of water year types. That site has a broad mosaic of habitats for comparing flow conditions.

Operations Update and Forecasts/Hydrology

New Melones Reservoir Update

- The current status for the Stanislaus River is as follows:
    - Northern California has seen wetter conditions this water year, with conditions becoming increasingly drier moving south through the state.
- New Melones inflow is currently at 64% of average.
- New Melones precipitation is currently around 75% of average.
- Power spill outlet releases accompanied the spring pulse flow and increased demand.
- On 4/25/2025, releases changed from Power to Outlet due to a hydropower turbine going offline. As of 5/21/2025, there are no hydropower units in operation at New Melones. Reclamation is hoping to have this unit working again within the next two weeks. The other hydropower unit is still offline for scheduled maintenance.

Daily CVP Water Supply

- Storage has remained high, at 127% of average, but is now starting to decrease as diversion demands increase and start to outpace current Stanislaus River flows.
- Peak storage was over 2 MAF on 4/15/2025 and has decreased since then.

Forecast

- Reclamation outlined the 12-month forecasts using the 50% and 90% exceedances. In both forecasts, the current water year types for both the D-1641 requirement and SRP flows were assumed for WY26.
- Reclamation is also waiting to find out the year type for the San Joaquin River tributaries.
    - CDFW confirmed post-meeting that the Tuolumne River is categorized as Intermediate Dry-to-Below Normal.
    - CDFW confirmed post-meeting that the Merced River is categorized as Normal based on the May B-120 forecast of > 400 TAF runoff.

Tulloch Dam

- N/A

FISHBIO Monitoring

No one from FISHBIO provided updates at the SWT meeting; please see the meeting handout materials for specific figures and information.

PSMFC Monitoring

No one from PSMFC provided updates at the SWT meeting; please see the meeting handout materials for specific figures and information.

Restoration Project Updates

- Reclamation provided the following updates for May:
    - Mohler and Tortuga projects have both completed their 65% design. They are working with Cramer to start the permitting process.

Other Discussion Items

SWRCB Updates

- N/A

Future Meeting Format

- Reclamation shared that due to the low attendance with in-person meetings, they have decided to return to a virtual-only format.
- USBR will host two in-person meetings each year. The next two are tentatively suggested for November 2025 and May 2026.

Items to elevate to WOMT

- N/A

Next Meeting

Wednesday, June 18, 10:00 am –12:00 pm. The meeting will be virtual.

BUREAU OF RECLAMATION

Stanislaus Watershed Team

10:00 a.m. – 12:00 p.m.
Conference Line: 1 (321) 209-6143; Meeting ID: 247 545 110 667#
Webinar: Join Microsoft Teams Meeting

Wednesday, May 21, 2025

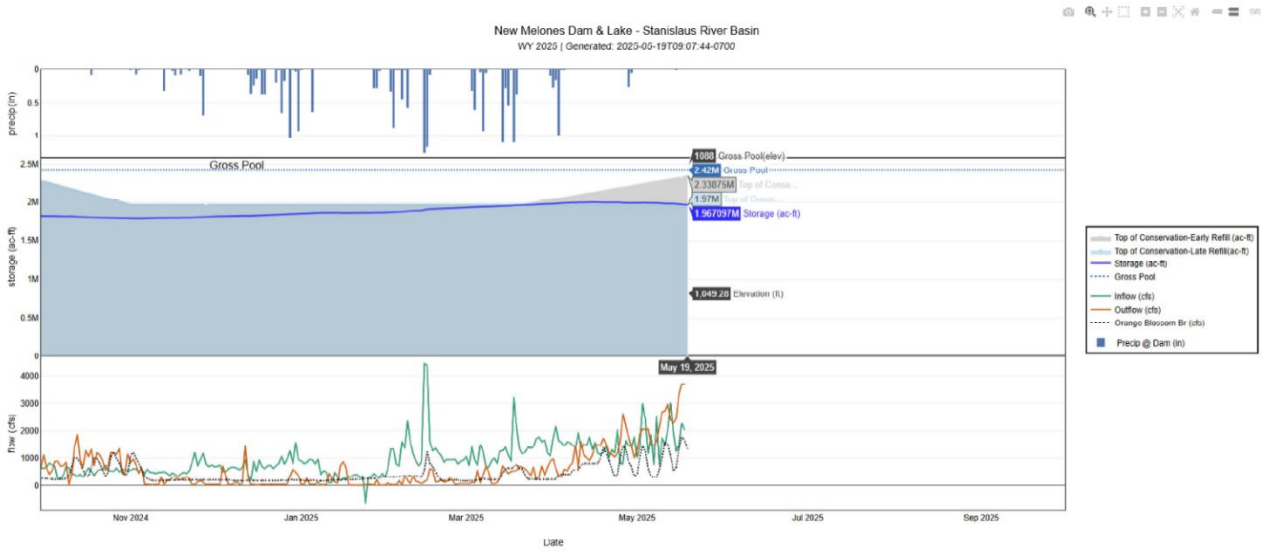
Agenda

1. Introductions
2. Ground Rules[1]
3. Announcements
4. Restored Seasonally Inundated Habitat Supports Juvenile Salmonid Rearing and Growth on Two San Joaquin River Tributaries – Kirsten Sellheim, CFS
5. Operations Update and Forecasts/Hydrology – Kevin Thielen, USBR
6. Temperature Updates – Barbara Byrne, NMFS
7. Spring Pulse Flow – Gretchen Murphey, CDFW and Myrna Girald Pérez, USBR
8. Stanislaus River Forum (SRF) Call Review – Myrna Girald Pérez, USBR
9. Fish Monitoring and Studies - CDFW, FISHBIO, NMFS, PSMFC

[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

10. Restoration Project Updates
    a. Restoration Tracker – Erika Holcombe, USFWS
    b. Cat Pien, USBR
11. Other Discussion Items
    a. SWRCB Updates
    b. Future Meeting Format – Myrna Girald Pérez, USBR
    c. Items to elevate to WOMT
12. Review Action Items – Tom Fischer, Kearns & West
13. Next Meeting: Wednesday, June 18, 2025



New Melones Dam & Lake – Stanislaus River Basin, 2025-04-14T15:07:14-0700

Graph shows the flow, storage, and precipitation for New Melones Dam and Lake from November 2024 to September 2025. The graph shows storage approximately 1.8M ac-ft in November 2024, with an inflow peak over 4000 cfs in late February 2025.

Tables for BDO

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

May 18, 2025
Run Date: May 19, 2025

Table 1. Reservoir Releases in Cubic Feet Per Second

Reservoir	Dam	WY 2024	WY 2025	15-Year Median
Trinity	Lewiston	3,339	1,538	2,031
Sacramento	Keswick	6,397	8,966	8,541
Feather	Oroville (SWP)	6,950	1,700	3,000
American	Nimbus	4,877	3,488	3,055
Stanislaus	Goodwin	1,198	1,402	1,207
San Joaquin	Friant	658	560	658

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	1,757	2,116	2,241	128
Shasta	4,552	3,661	4,391	4,300	117
Folsom	977	788	919	926	118
New Melones	2,420	1,544	2,080	1,967	127
Fed. San Luis	966	638	811	704	110
Total North CVP	11,363	8,387	10,317	10,138	121
Millerton	521	352	514	456	130
Oroville (SWP)	3,425	2,738	3,527	3,390	124

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	1,415	144	1,665	910	156
Shasta	5,651	1,720	8,778	3,946	143
Folsom	1,876	254	4,617	2,039	92
New Melones	449	N/A	1,463	704	64

Reservoir	Current WY 2025	WY 1977	WY 1983	15-Yr Avg	% O 15 Yr Avg
Millerton	720	124	2,144	892	81

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

Reservoir	Current WY 2025	WY 1977	WY 1983	Avg (N Yrs)	% of Avg	Last 24 Hours
Trinity at Fish Hatchery	34.76	12.06	54.59	28.81 (65)	121	0.00
Sacramento at Shasta Dam	65.12	15.37	112.07	56.52 (70)	115	0.00
American at Blue Canyon	69.66	15.64	103.28	61.91 (51)	113	0.00
Stanislaus at New Melones	19.54	N/A	45.33	25.95 (48)	75	0.00
San Joaquin at Huntington LK	29.16	15.70	80.80	38.29 (52)	76	0.00

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

New Melones Lake Daily Operations, April 2025, Run Date: 5/10/2025

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	1,983.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	1,051.08	1,986.9	3.0	2,159	649	0	0	11	0.03	0.17
2	1,051.31	1,989.4	2.5	1,639	355	0	0	4	0.01	0.99
3	1,051.53	1,991.8	2.4	1,585	315	0	0	46	0.13	0.01
4	1,051.67	1,993.4	1.5	1,450	610	0	0	61	0.17	0.01
5	1,051.85	1,995.4	2.0	1,600	537	0	0	61	0.17	0.00
6	1,051.99	1,996.9	1.5	1,570	730	0	0	61	0.17	0.00
7	1,052.09	1,998.0	1.1	1,473	843	0	0	72	0.20	0.00
8	1,052.07	1,997.8	-0.2	1,364	1,451	0	0	25	0.07	0.00
9	1,052.29	2,000.2	2.4	1,936	647	0	0	61	0.17	0.00
10	1,052.24	1,999.7	-0.6	1,387	1,594	0	0	72	0.20	0.00
11	1,052.30	2,000.3	0.7	1,514	1,118	0	0	61	0.17	0.00
12	1,052.37	2,001.1	0.8	1,466	1,014	0	0	61	0.17	0.00
13	1,052.51	2,002.7	1.6	1,774	914	0	0	79	0.22	0.00
14	1,052.54	2,003.0	0.3	1,319	1,102	0	0	50	0.14	0.00
15	1,052.55	2,003.1	0.1	1,585	1,475	0	0	54	0.15	0.00
16	1,052.48	2,002.3	-0.8	1,178	1,501	0	0	68	0.19	0.00
17	1,052.41	2,001.6	-0.8	1,124	1,458	0	0	57	0.16	0.00
18	1,052.31	2,000.5	-1.1	1,209	1,731	0	0	36	0.10	0.00
19	1,052.28	2,000.1	-0.3	1,421	1,514	0	0	75	0.21	0.00
20	1,052.24	1,999.7	-0.4	1,038	1,189	0	0	72	0.20	0.00
21	1,052.25	1,999.8	0.1	1,304	1,145	0	0	104	0.29	0.00
22	1,052.26	1,999.9	0.1	1,189	1,047	0	0	86	0.24	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	1,052.40	2,001.5	1.6	2,022	1,162	0	0	79	0.22	0.00
24	1,052.24	1,999.7	-1.8	819	1,630	0	0	82	0.23	0.00
25	1,051.90	1,995.9	-3.8	796	1,051	0	1,574	68	0.19	0.00
26	1,051.80	1,994.8	-1.1	1,640	21	0	2,150	25	0.07	0.00
27	1,051.74	1,994.2	-0.7	1,466	19	0	1,756	25	0.07	0.27
28	1,051.73	1,994.0	-0.1	1,393	16	0	1,404	29	0.08	0.05
29	1,051.86	1,995.5	1.4	1,789	17	0	992	57	0.16	0.00
30	1,051.80	1,994.8	-0.7	1,040	36	0	1,256	82	0.23	0.00
Totals	N/A	N/A	10.7	43,249	26,891	0	9,132	1,724	4.81	1.50
Acre-Feet	N/A	N/A	10,700	85,784	53,338	0	18,113	3,420	N/A	N/A

Comments:

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

Summary Precipitation

This Month	1.50
October 1, 2024 to Date	19.53

Summary: Release (acre- feet)

Release (acre-feet)	N/A
Power	53,338
Spill	0
Outlet	18,113
Total	**71,452**

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

New Melones Lake Daily Operations, May 2025, Run Date: 5/19/2025

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	1,994.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	1,051.70	1,993.7	-1.1	1,397	28	0	1,844	82	0.23	0.00
2	1,051.85	1,995.4	1.7	2,985	29	0	2,032	89	0.25	0.00
3	1,051.90	1,995.9	0.6	2,423	6	0	2,032	107	0.30	0.00
4	1,051.73	1,994.0	-1.9	1,173	19	0	2,032	68	0.19	0.00
5	1,051.78	1,994.6	0.6	1,848	13	0	1,471	86	0.24	0.00
6	1,051.64	1,993.1	-1.5	783	14	0	1,466	82	0.23	0.00
7	1,051.78	1,994.6	1.5	2,511	12	0	1,616	104	0.29	0.00
8	1,051.52	1,991.7	-2.9	768	3	0	2,132	79	0.22	0.00
9	1,051.33	1,989.6	-2.1	1,752	3	0	2,688	118	0.33	0.00
10	1,051.08	1,986.9	-2.8	1,463	2	0	2,724	128	0.36	0.00
11	1,050.89	1,984.8	-2.1	2,041	9	0	2,962	125	0.35	0.00
12	1,050.98	1,985.8	1.0	3,016	18	0	2,396	103	0.29	0.00
13	1,050.91	1,985.0	-0.8	1,967	24	0	2,242	89	0.25	0.00
14	1,050.69	1,982.6	-2.4	1,247	20	0	2,426	21	0.06	0.01
15	1,050.35	1,978.8	-3.7	1,506	10	0	3,290	92	0.26	0.00
16	1,050.07	1,975.8	-3.1	2,263	3	0	3,706	107	0.30	0.00
17	1,049.75	1,972.3	-3.5	2,043	3	0	3,704	106	0.30	0.00
18	1,049.28	1,967.1	-5.2	1,184	9	0	3,702	71	0.20	0.00
Totals	N/A	N/A	-27.7	32,370	225	0	44,465	1,657	4.65	0.01
Acre-Feet	N/A	N/A	-27,700	64,206	446	0	88,196	3,287	N/A	N/A

Comments:

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

Summary Precipitation

This Month	0.01
October 1, 2021 to Date	19.54

Summary: Release (acre-feet)

Release (acre-feet)	N/A
Power	446
Spill	0
Outlet	88,196
Total	**88,643**

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

Tulloch Reservoir Daily Operations, April 2025, Run Date: 5/10/2025

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	58,162	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	503.14	58,770	608	1,022	649	652	0	62	1
2	502.61	58,173	-597	656	355	773	0	184	0
3	501.82	57,291	-882	502	315	942	0	0	5
4	501.69	57,148	-143	928	610	953	0	41	6
5	501.32	56,740	-408	788	537	988	0	0	6
6	501.43	56,861	121	1,055	730	988	0	0	6
7	501.23	56,641	-220	1,160	843	1,264	0	0	7
8	502.55	58,106	1,465	2,153	1,451	1,411	0	0	3
9	501.81	57,280	-826	991	647	1,401	0	0	6
10	502.90	58,498	1,218	2,387	1,594	1,766	0	0	7
11	502.70	58,274	-224	1,659	1,118	1,766	0	0	6
12	502.24	57,759	-515	1,511	1,014	1,765	0	0	6
13	501.48	56,916	-843	1,357	914	1,774	0	0	8
14	501.28	56,696	-220	1,645	1,102	1,751	0	0	5
15	502.06	57,557	861	2,175	1,475	1,736	0	0	5
16	502.46	58,005	448	2,173	1,501	1,940	0	0	7
17	502.26	57,781	-224	2,193	1,458	2,280	0	20	6
18	502.44	57,983	202	2,552	1,731	2,431	0	15	4
19	502.69	58,263	280	2,232	1,514	2,083	0	0	8
20	502.69	58,263	0	1,740	1,189	1,733	0	0	7
21	502.85	58,442	179	1,674	1,145	1,573	0	0	11
22	502.84	58,431	-11	1,487	1,047	1,484	0	0	9
23	502.69	58,263	-168	1,714	1,162	1,791	0	0	8

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	502.51	58,061	-202	2,383	1,630	2,421	0	56	8
25	503.09	58,713	652	3,210	2,625	2,443	0	431	7
26	503.57	59,260	547	2,558	2,171	2,244	0	35	3
27	504.13	59,900	640	2,200	1,775	1,874	0	0	3
28	504.84	60,722	822	1,845	1,420	1,428	0	0	3
29	505.33	61,295	573	1,277	1,009	982	0	0	6
30	505.35	61,319	24	1,355	1,292	1,334	0	0	9
Totals	NA	NA	3,157	50,582	36,023	47,971	0	844	176
Acre-Feet	NA	NA	3,157	100,329	71,452	95,150	0	1,674	349

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	95,150
Spill	0
Outlet	1,674
Total	**96,825**

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

Tulloch Reservoir Daily Operations, May 2025, Run Date: 5/19/2025

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	61,319	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	505.07	60,989	-330	1,755	1,872	1,912	0	0	9
2	503.93	59,670	-1,319	1,845	2,061	2,450	0	51	9
3	503.90	59,636	-34	1,858	2,038	1,864	0	0	11
4	504.79	60,664	1,028	1,871	2,051	1,346	0	0	7
5	505.13	61,060	396	1,378	1,484	1,169	0	0	9
6	505.20	61,142	82	1,460	1,480	1,410	0	0	9
7	505.46	61,448	306	1,641	1,628	1,456	0	20	11
8	505.56	61,566	118	2,153	2,135	1,691	176	219	8
9	505.83	61,883	317	2,661	2,691	2,376	32	80	13
10	505.41	61,389	-494	2,850	2,726	2,466	380	239	14
11	505.83	61,883	494	2,867	2,971	2,459	32	114	13
12	506.62	62,823	940	2,597	2,414	2,112	0	0	11
13	507.35	63,701	878	2,029	2,266	1,576	0	0	10
14	507.41	63,774	73	2,202	2,446	2,110	0	53	2
15	506.87	63,122	-652	2,726	3,300	2,479	312	254	10
16	506.02	62,107	-1,015	2,935	3,709	2,472	553	410	12
17	505.76	61,801	-306	2,956	3,707	2,467	254	378	11
18	506.42	62,584	783	2,986	3,711	2,469	0	114	8
Totals	N/A	N/A	1,265	40,770	44,690	36,284	1,739	1,932	177
Acre-Feet	N/A	N/A	1,265	80,867	88,643	71,969	3,449	3,832	351

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	71,969
Spill	3,449
Outlet	3,832
Total	**79,251**

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

Goodwin Reservoir Daily Operations, April 2025, Run Date: 5/10/2025

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	714	0	207	490	42
2	359.89	529	9	957	0	401	543	43
3	359.90	530	1	942	0	401	554	20
4	359.90	530	0	994	0	402	561	73
5	359.89	529	-1	988	0	401	568	60
6	359.90	530	1	988	0	401	569	60
7	360.04	540	10	1,264	0	593	582	144
8	360.04	540	0	1,411	0	603	677	191
9	360.03	539	-1	1,401	0	603	690	173
10	360.18	550	11	1,766	0	850	691	247
11	360.18	550	0	1,766	0	855	710	228
12	360.17	549	-1	1,765	0	853	712	240
13	360.17	549	0	1,774	0	852	730	232
14	360.18	550	1	1,751	0	855	702	233
15	360.18	550	0	1,736	0	856	702	216
16	360.18	550	0	1,940	0	854	765	350
17	360.50	572	22	2,300	0	1,223	791	311
18	360.46	569	-3	2,446	0	1,495	766	231
19	360.30	558	-11	2,083	0	1,203	731	201
20	360.14	547	-11	1,733	0	903	686	182
21	359.85	527	-20	1,573	0	511	849	251
22	359.83	525	-2	1,484	0	303	899	305

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	360.27	556	31	1,791	0	532	922	352
24	360.37	563	7	2,477	0	1,169	957	401
25	360.60	579	16	2,874	0	1,702	958	332
26	360.20	551	-28	2,279	0	1,207	935	262
27	360.20	551	0	1,874	0	900	894	181
28	359.85	527	-24	1,428	0	609	675	236
29	359.82	524	-3	982	0	304	527	211
30	360.26	555	31	1,334	0	551	554	202
Totals	N/A	N/A	35	48,815	0	22,599	21,390	6,210
Acre-Feet	N/A	N/A	35	96,825	0	44,825	42,427	12,318

Joint Main Operated by SSJID and OID.

Summary: Release (acre-feet)

Joint Main Canal	42,427
South Main Canal	12,318
Outlet	0
Spill	44,825
Total	**99,570**

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

Goodwin Reservoir Daily Operations, May 2025, Run Date: 5/19/2025

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	555	N/A	N/A	N/A	N/A	N/A	N/A
1	360.48	571	16	1,912	0	1,197	550	251
2	360.60	579	8	2,501	0	1,705	604	301
3	360.08	543	-36	1,864	0	1,110	583	262
4	359.88	529	-14	1,346	0	596	554	170
5	359.82	524	-5	1,169	0	304	581	288
6	359.82	524	0	1,410	0	304	676	321
7	359.90	530	6	1,476	0	314	698	335
8	360.26	555	25	2,086	0	794	721	447
9	360.60	579	24	2,488	0	1,198	719	446
10	360.64	582	3	3,085	0	1,809	720	419
11	360.40	565	-17	2,605	0	1,525	686	255
12	360.01	538	-27	2,112	0	999	660	329
13	359.95	534	-4	1,576	0	498	585	346
14	360.38	564	30	2,163	0	909	732	376
15	360.71	587	23	3,045	0	1,586	930	426
16	360.72	587	0	3,435	0	2,004	969	411
17	360.50	572	-15	3,099	0	1,704	924	423
18	360.39	564	-8	2,583	0	1,402	852	254
Totals	N/A	N/A	9	39,955	0	19,958	12,744	6,060
Acre Feet	N/A	N/A	9	79,251	0	39,587	25,278	12,020

Joint Main Operated by SSJID and OID.

Summary: Release (acre-feet)

Joint Main Canal	25,278
South Main Canal	12,020
Outlet	0
Spill	39,587
Total	**76,884**

Table 5. New Melones 50% Exceedance

Month	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Storage (TAF)	1931	1890	1823	1767	1721	1671	1683	1701	1737	1776	1838	1847
Releases (TAF)	158	148	110	90	77	82	22	21	12	39	41	147
Inflow (TAF)	100	113	51	42	37	35	35	40	50	80	105	160
GW Releases (CFS)	1200	750	200	200	200	635	200	200	200	540	500	900

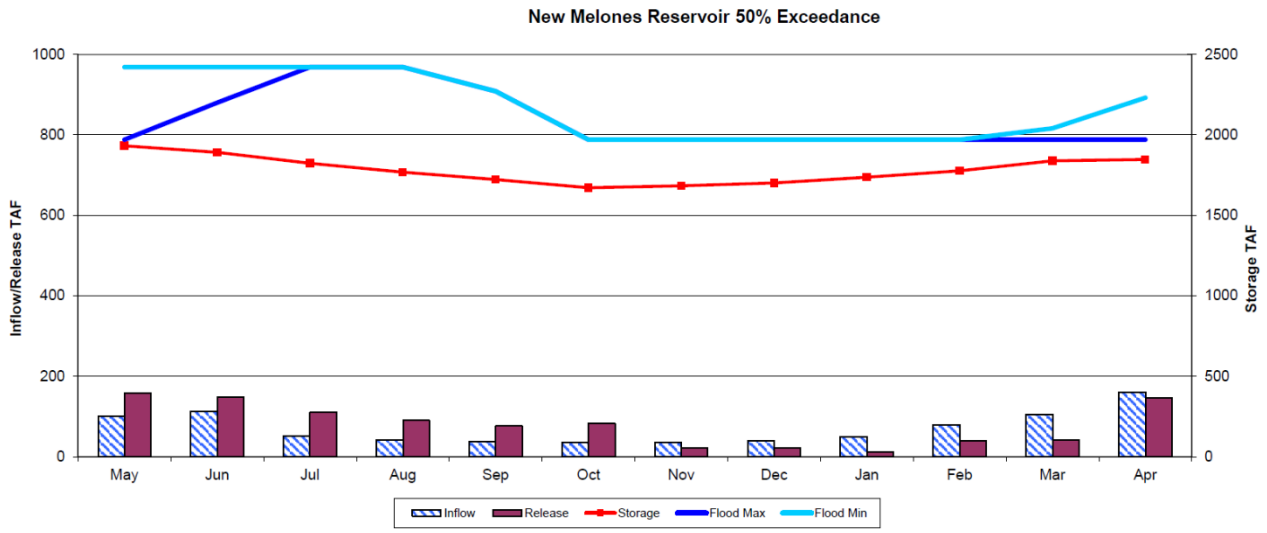


Figure 1. New Melones Reservoir 50% Exceedance

Figure 1 is a graph that shows the New Melones Reservoir 50% Exceedance. The graph shows the New Melones Reservoir inflow and release as a bar graph for each month between May 2024 – April 2025 and a line graph of the reservoir storage, flood maximum and flood minimum flows.

Table 6. New Melones 90% Exceedance

Month	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Storage (TAF)	1913	1827	1756	1699	1651	1596	1602	1610	1616	1573	1551	1461
Releases (TAF)	176	162	110	90	77	82	22	21	12	67	66	161
Inflow (TAF)	100	83	47	40	35	30	30	30	20	25	45	75
GW Releases (CFS)	1200	1000	200	200	200	635	200	200	200	1039	900	1143

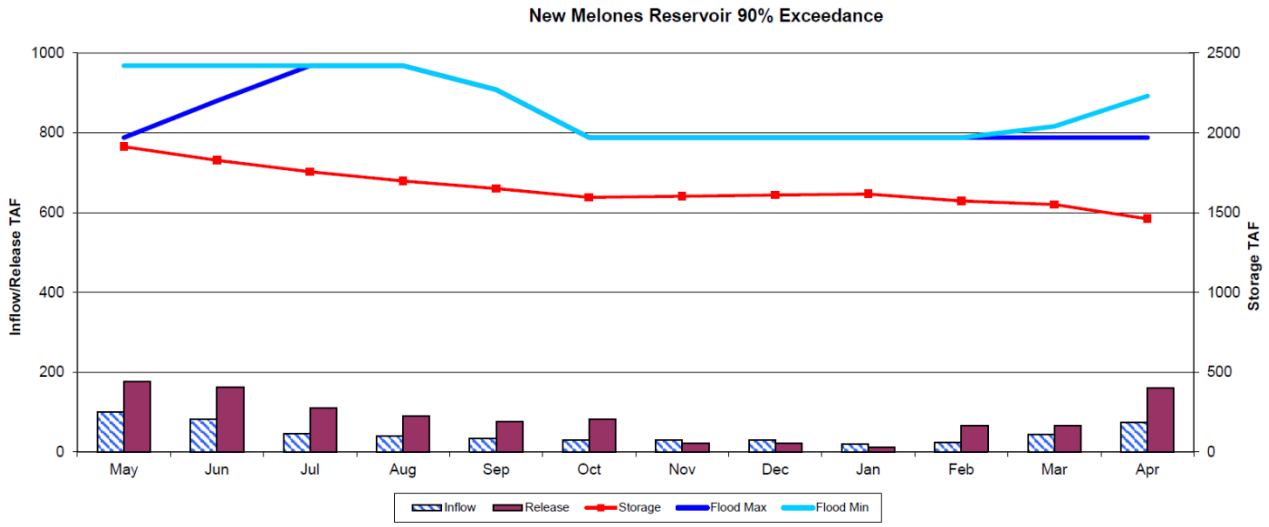


Figure 2. New Melones Reservoir 90% Exceedance

Figure 2 is a graph that shows the New Melones Reservoir 50% Exceedance. The graph shows the New Melones Reservoir inflow and release as a bar graph for each month between May 2024 – April 2025 and a line graph of the reservoir storage, flood maximum and flood minimum flows.

May 2025 Water Temperature and Fish Monitoring Update

Year-to-Date Flows

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

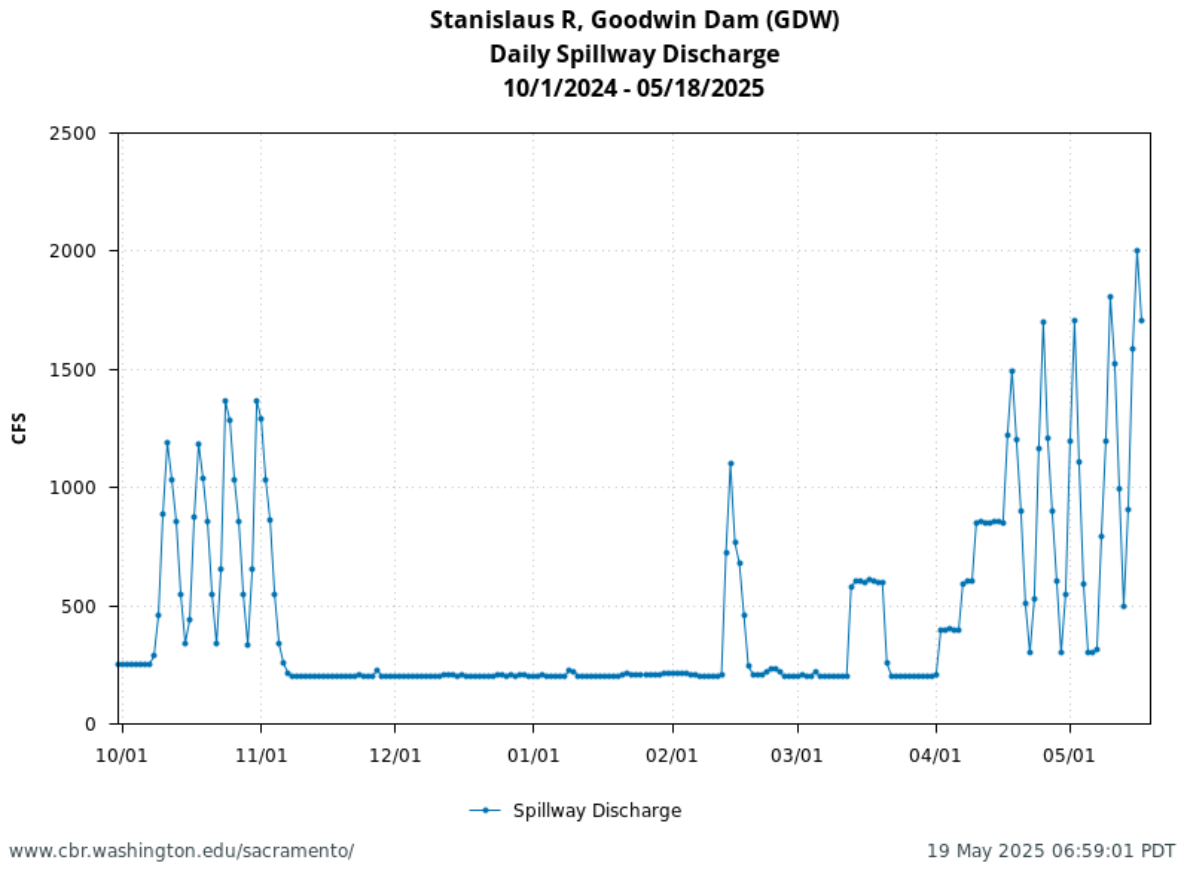


Figure 3. Goodwin (daily) releases to the Stanislaus River since October 1, 2024. Data from GDW station on CDEC.

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. There is a continuous increase in beginning in April 2025 starting at 400 cfs, and peaks about 1500 cfs in late April through May 18,

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 March 2025 are shown below at Goodwin Canyon (Figure 4), Orange Blossom Bridge (Figure 5), and at Ripon (Figure 6). Water temperatures in the San Joaquin River since March 2025 are shown below at Vernalis (Figure 7). Current-year water temperatures are plotted along with historical temperatures for upstream of Orange Blossom Bridge (Figure 8), Ripon (Figure 9), and Vernalis (Figure 10). A compilation of Stanislaus River water temperatures and Goodwin releases Water Year 2025 is provided in Figure 11.

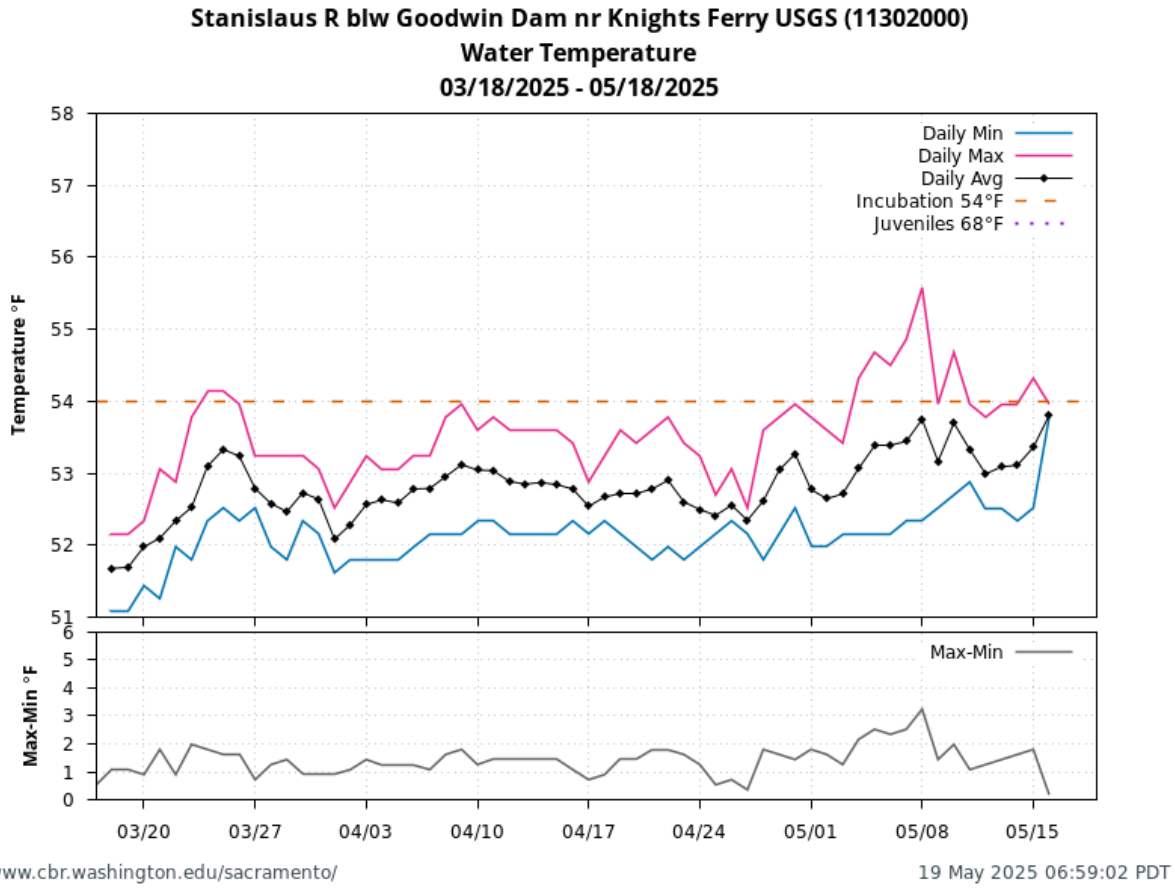


Figure 4. Daily water temperatures on the Stanislaus River upstream of Knights Ferry since March 18, 2025. Data from USGS gage 11302000 on NWIS; temperature threshold reference line added by SWT.

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).

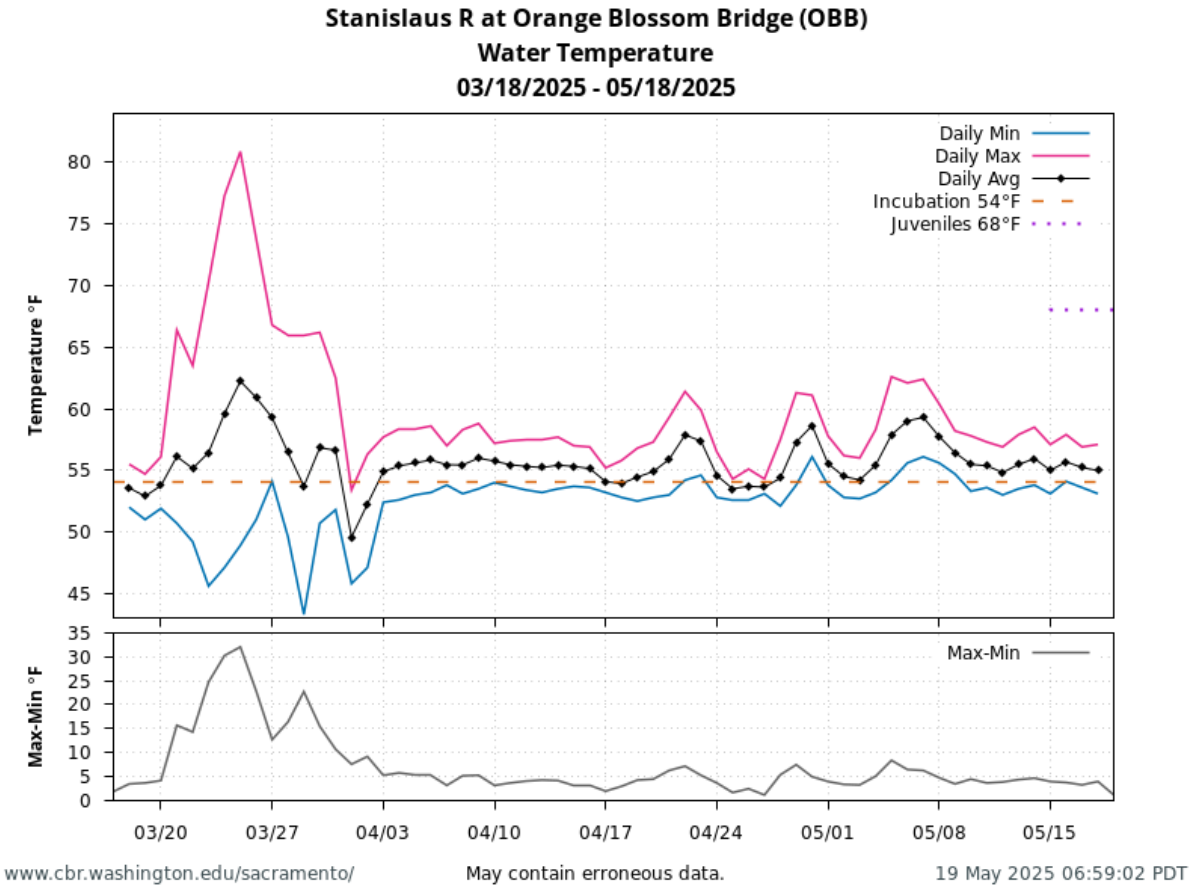


Figure 5. Stanislaus (hourly) water temperatures at Orange Blossom Bridge since March 18, 2025. Data from OBB station on CDEC. Please be aware that due to malfunctions with the temperature gauge at Orange Blossom Bridge, the data should be noted as unreliable.

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.

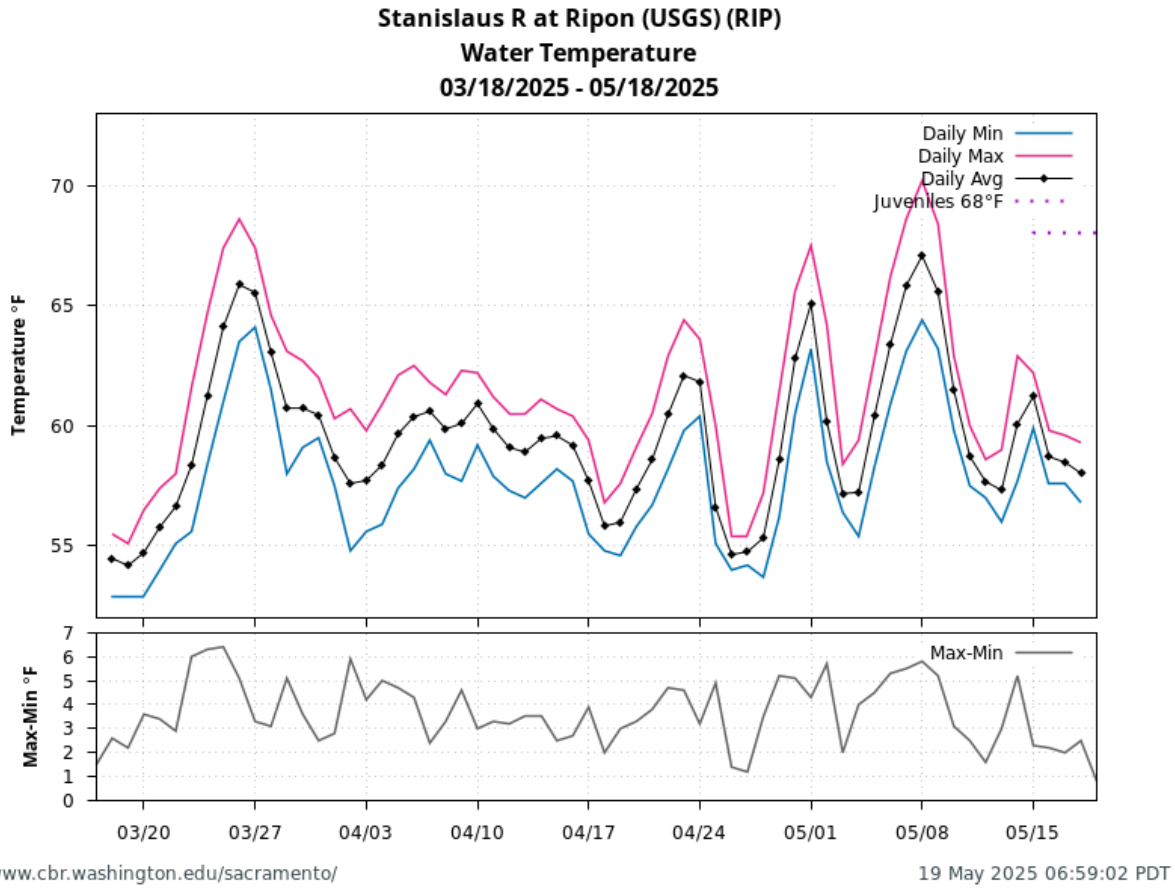


Figure 6. Stanislaus water temperatures at Ripon since March 18, 2025. Data from RIP station on CDEC.

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).

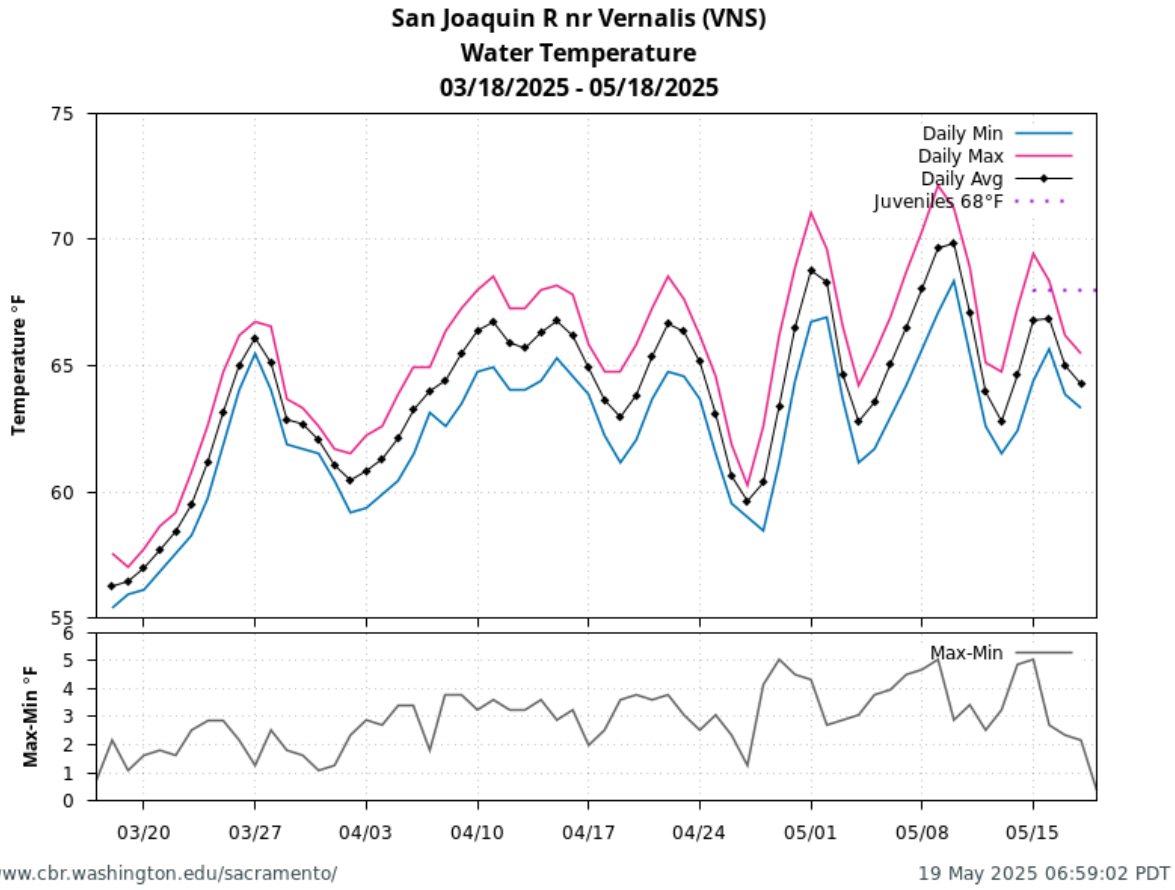


Figure 7. San Joaquin River (15-minute) water temperatures at Vernalis since March 18, 2025. Data from VNS station on CDEC. Note that, unlike in the previous figures, temperature is reported in degrees Celsius. 8°C=46.4°F; 10°C=50°F; 12°C=53.6°F; 14°C=57.2°F; 16°C=60.8°F; 18°C=64.4°F; 20°C=68.0°F; 22°C=71.6°F; 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).

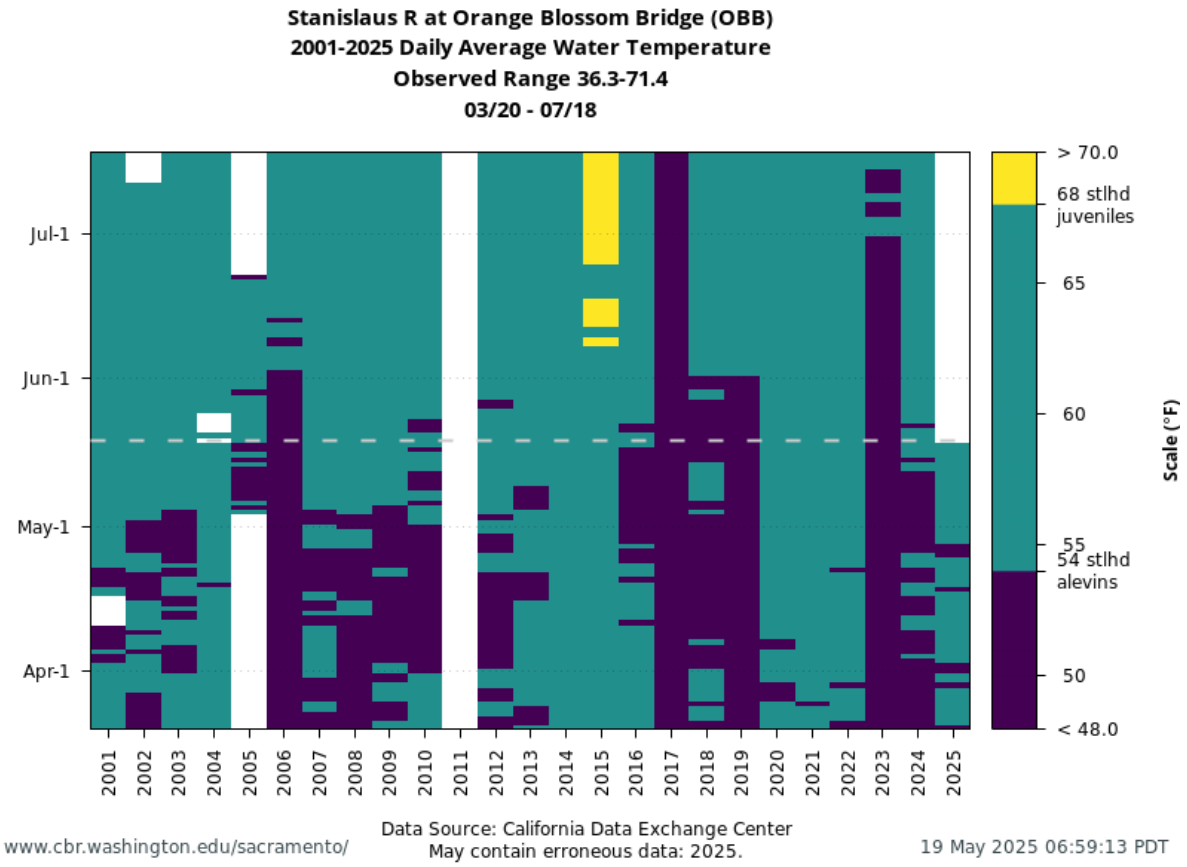


Figure 8. Stanislaus River water temperatures at Orange Blossom Bridge for WY 2001 to present. Data from SacPAS website; temperature threshold reference lines added by SWT. Please be aware that due to malfunctions with the temperature gauge at Orange Blossom Bridge, the data should be noted as unreliable.

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

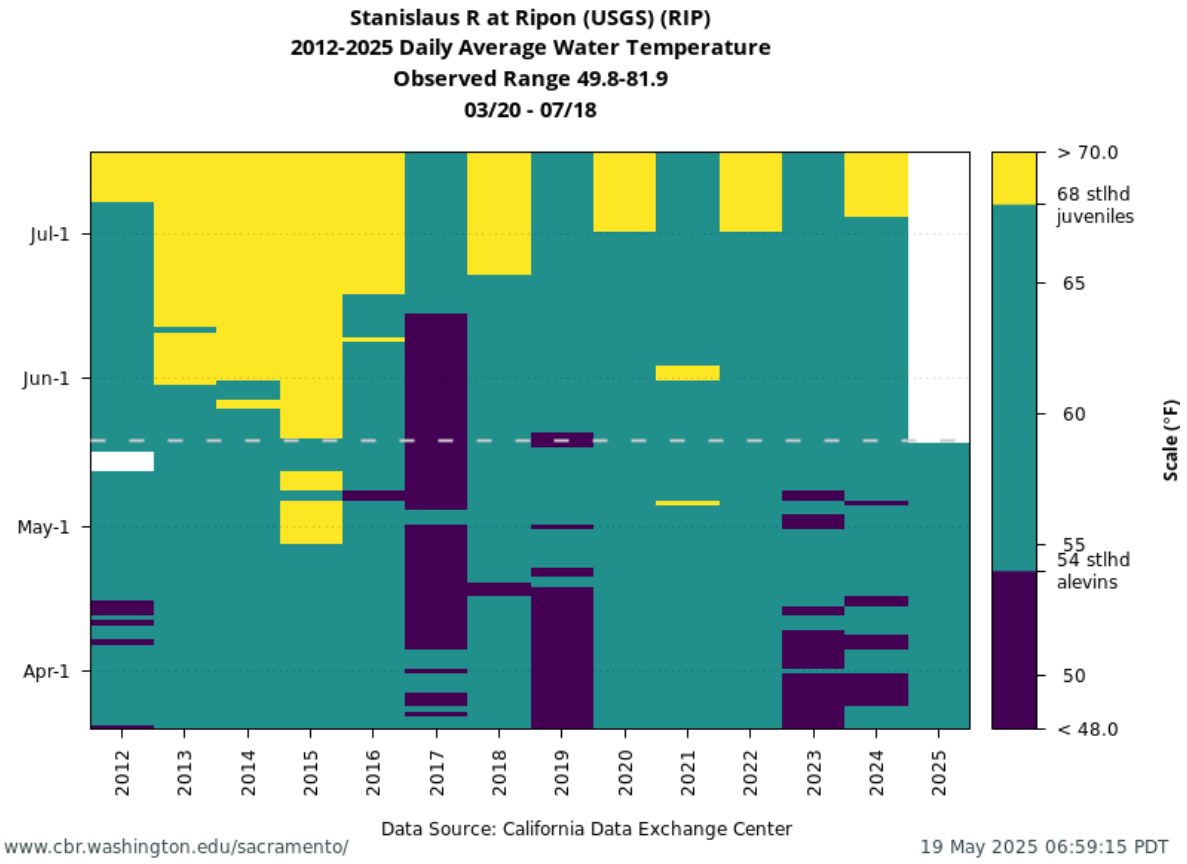


Figure 9. Stanislaus River water temperatures at Ripon for WY 2012 to present. Figure from SacPAS website using RIP station data from CDEC; temperature threshold reference line added by SWT.

Figure 9 is a bar chart showing water temperatures at Ripon for WY 2012 to present for March to July. The chart shows that during this time, the daily average water temperature was mostly above 54 degrees Fahrenheit.

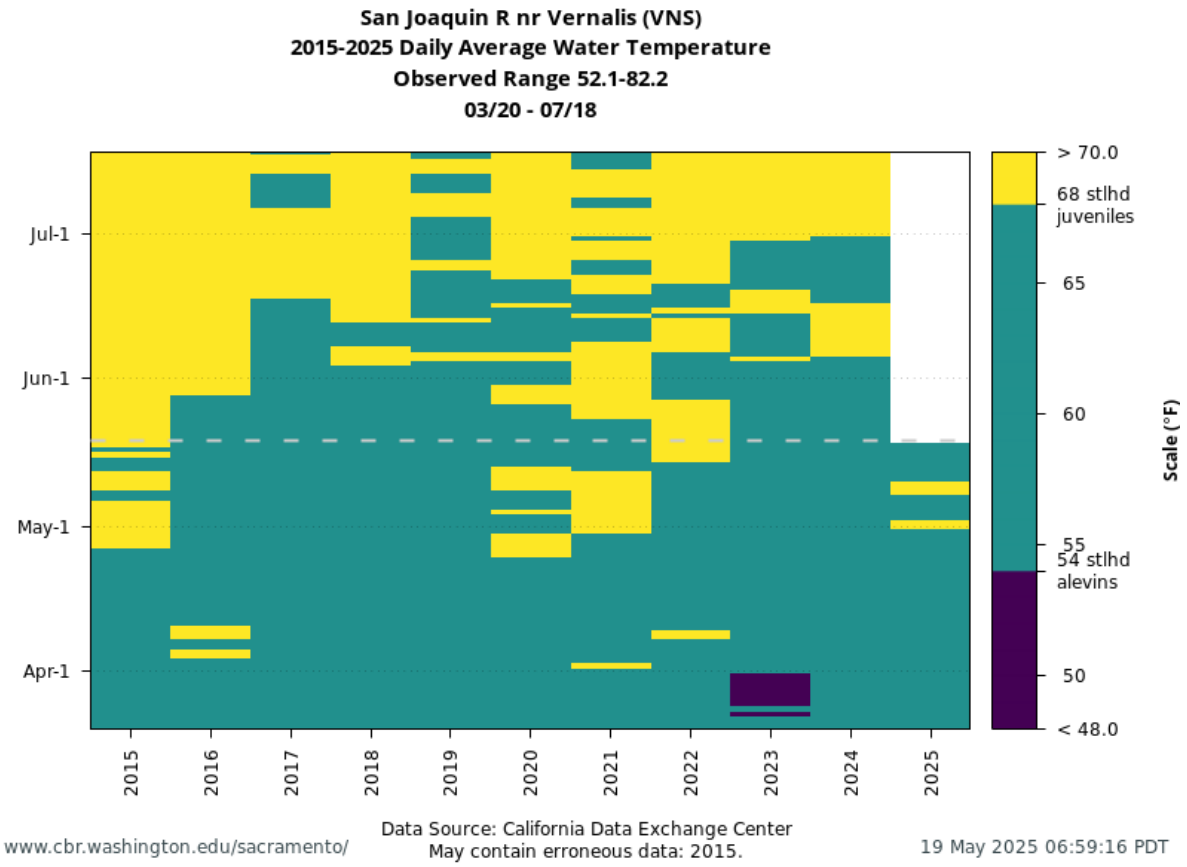


Figure 10. San Joaquin River water temperatures at Vernalis for WY 2015 to present. Figure from SacPAS website using VNS station data from CDEC; temperature threshold reference line added by SWT.

Figure 10 is a bar chart showing water temperatures at Vernalis for WY 2015 to present for March to July. 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 from May through July 2015 to 2024.

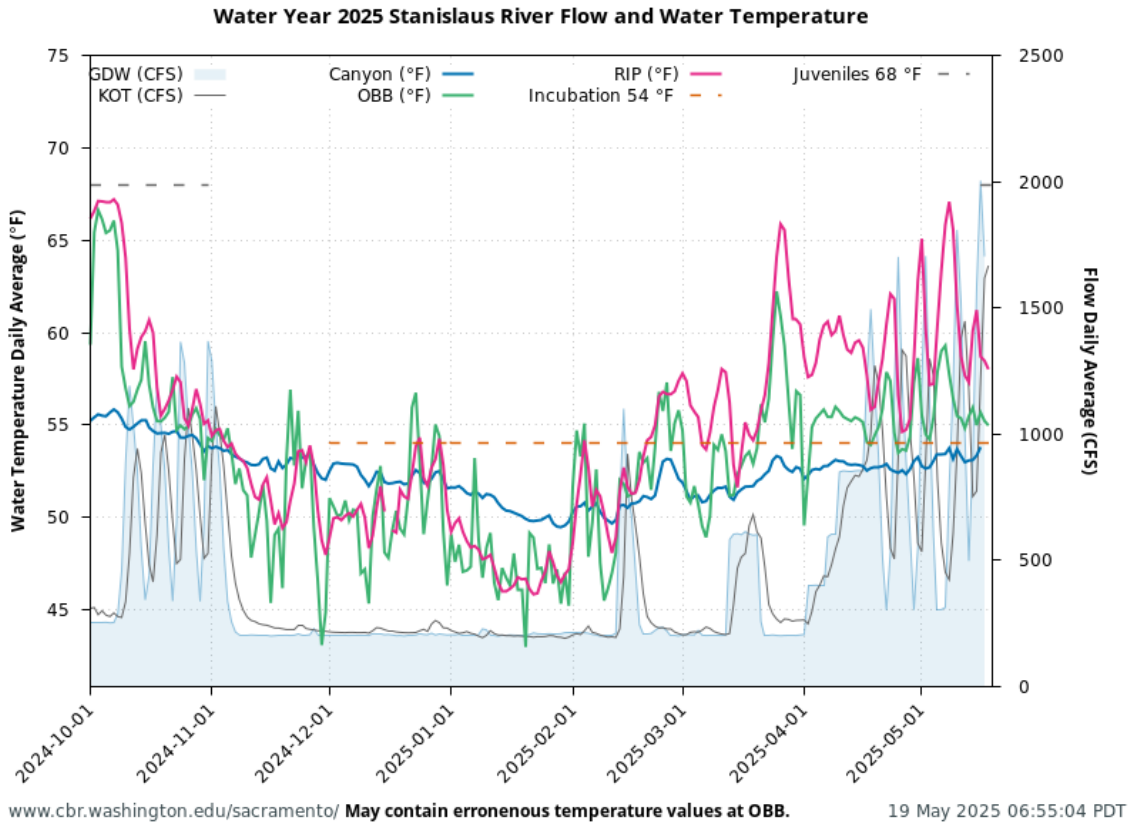


Figure 11. Stanislaus River flow and water temperatures from October 1, 2024 to May 1, 2025. Data (including temperature threshold reference lines) from SacPAS website. Please be aware that due to malfunctions with the temperature gauge at Orange Blossom Bridge, the data should be noted as unreliable.

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 – February 2025, with increasing temperatures after March 2025.

Item 6. Flow Planning

CDFW & USBR Updates

Updates to be shared/discussed at May meeting.

Item 7. Stanislaus River Forum (SRF) Call Review

USBR Updates

Receive live update from USBR staff on the 5/20 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. New surveys will begin in October.

Steelhead redd surveys: Began 1/6/2025.

Steelhead Redd Survey

Table 7. Data on steelhead redd survey through the week of 4/29/2025.

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
11*	3/18/2025	1	0	0	0	0	0	0	0	0	0	82	720
12	3/25/2025	11	1	1	0	0	0	0	0	0	0	2045	200
13	4/1/2025	2	0	0	0	0	0	0	0	0	0	591	333
14	4/8/2025	18	2	1	0	0	0	0	0	0	0	626	683
15*	4/15/2025	8	0	0	0	0	0	0	0	0	0	261	850
16	4/22/2025	10	1	0	0	0	0	0	0	0	0	141	533
17	4/29/2025	55	1	0	0	0	0	0	0	0	0	111	533

*- No canyon or hiking survey.

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 5/17/2025

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
3/17/2025	2 ad-clip	N/A
3/19/2025	3 ad-clip	N/A
3/21/2025	2 CHN, 3 ad-clip	FL 48,78
3/24/2025	1 CHN, 9 ad-clip	FL 90
3/26/2025	14 ad-clip	N/A
3/28/2025	140 ad-clip	N/A
4/1/2025	3 ad-clip	N/A
4/3/2025	13 ad-clip	N/A
4/4/2025	5 CHN, 29 ad-clip	FL 77,79,64,79, 104
4/5/2025	2 CHN, 9 ad-clip	FL 88,75
4/7/2025	1 RBT	FL 236
N/A	2 CHN, 8 ad-clip	FL 79,87
4/8/2025	10 ad-clip	N/A
4/10/2025	8 CHN, 18 ad-clip	FL 74,75,77,81,81,79,76,82
4/11/2025	8 CHN, 13 ad-clip	FL 73,74,80,76,75,77,77,92
4/12/2025	5 CHN, 5 ad-clip	FL 87,80,83,75,71
4/14/2025	7CHN, 2 ad-clip	Ave FL 77.57
4/15/2025	17CHN,4 ad-clip	Ave FL 79.00
4/17/2025	2 CHN	Ave FL 77.00
4/18/2025	17 CHN	Ave FL 81.82
4/19/2025	1 ad-clip	N/A

Date	Catch	Comments
4/21/2025	5 CHN, 1 ad-clip	Ave FL 77.40
4/24/2025	10 CHN, 2 ad-clip	Ave FL 81.00
4/25/2025	5 CHN	Ave Fl 82.60
4/26/2025	62 CHN	Ave FL 83.81
4/28/2025	13 CHN	Ave FL 83.77
4/29/2025	5 CHN	Ave Fl 86.40
5/1/2025	4 CHN	Ave FL 84.50
5/2/2025	75 CHN	Ave FL 84.28
5/3/2025	68 CHN	Ave FL 83.01
5/5/2025	21 CHN	Ave FL 85.05
5/6/2025	11 CHN	Ave FL 83.45
5/8/2025	2 CHN	Ave FL 84.5
5/9/2025	76 CHN	Ave FL 84.79
5/10/2025	13 CHN	Ave FL 88.61
5/12/2025	98 CHN	Ave FL 83.22
N/A	1 RBT	FL 260
5/13/2025	12 CHN	Ave FL 82.92
5/15/2025	0 CHN	N/A
5/16/2025	1 CHN	FL 91
5/17/2025	15 CHN	Ave FL 85.46

Adipose clips retained for CWT extraction

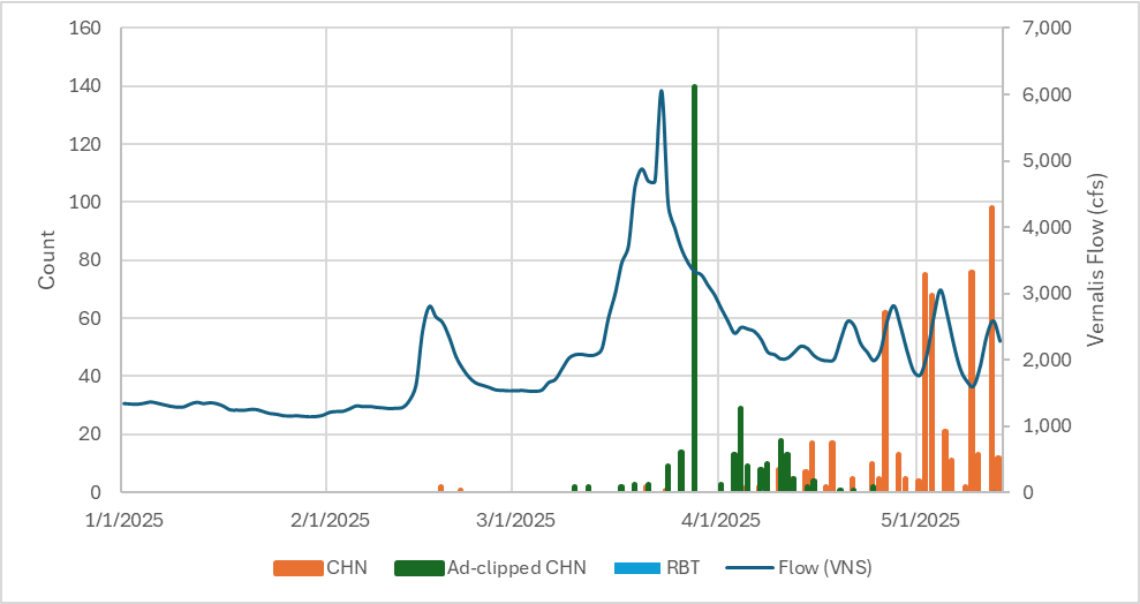


Figure 12. Graph of salmonid catch at Mossdale and flow at Vernalis (cfs).

Figure 12 is a graph showing salmonid catch at Mossdale and flow at Vernalis from January 2025 through May 2025. The graph shows flow peaking over 2,000 cfs in late February with a continuous increase in late March to 6,000 cfs. Most of the catch begins in April through May 2025.

Note from FISHBIO

- The trap was opened on 4/9/2025 as flows were increased and no longer conducive to trapping.

Stanislaus Weir

As of 5/5/2025, a total of 3,643 adult Chinook salmon have passed upstream of the Stanislaus River weir (Table 9). 740 (20%) of the adults were adipose fin clipped (indicating hatchery origin). A total of 34 O. mykiss (Table 4) have been observed passing the Stanislaus River weir as of 5/5/2025, with 7 being over 16 inches. Six out of 34 (18%) of the O. mykiss were adipose fin clipped.

Table 9. Chinook passage at the Stanislaus River Weir - Updated through: 5/5/2025

Year	Monitoring Start date	Net Passage To Date	Season Total
2024	9/5/24	3,643	3,643
2023	9/6/23	2,443	2,443
2022	9/15/22	3,798	3,798
2021	9/8/21	6,027	6,032

Year	Monitoring Start date	Net Passage To Date	Season Total
2020	9/10/20	1,906	1,906
2019	8/29/19	2,594	2,594
2018	9/5/18	4,779	4,779
2017	9/15/17	8,500	8,500
2016	9/8/16	14,399	14,399
2015	9/15/15	12,707	12,707
2014	9/5/14	5,527	5,527
2013	9/3/13	5,452	5,452
2012	9/11/12	7,160	7,248
2011	11/8/11	776	776
2010	9/7/10	1,364	1,364
2009	9/9/09	1,294	1,303
2008	9/9/08	916	928
2007	9/22/07	439	439
2006	9/8/06	3,063	3,074
2005	9/8/05	4,124	4,124
2004	9/10/04	4,448	4,448
2003	9/5/03	4,848	4,848

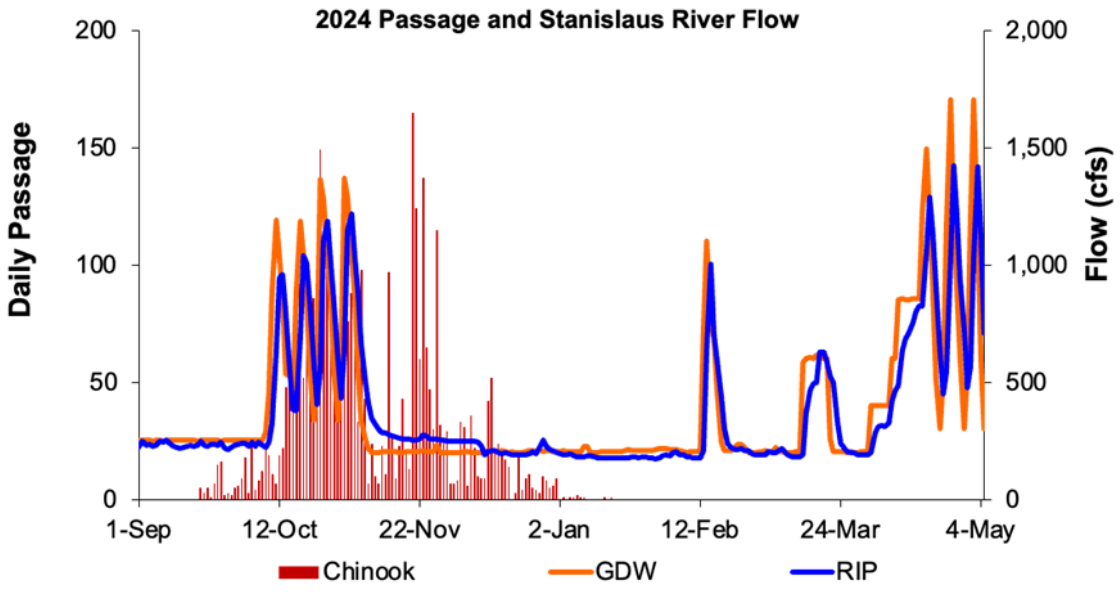


Figure 13. 2024-2025 passage and Stanislaus River flow

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

Table 10. O. mykiss passage at the Stanislaus River Weir as of 4/8/2025 of each year and the season totals.

Year	Monitoring Start date	Net Passage To Date	Season Total
2024	9/5/24	34	34
2023	9/6/23	55	55
2022	9/15/22	6	6
2021	9/8/21	49	50
2020	9/10/20	8	8
2019	8/29/19	31	31
2018	9/5/18	25	25
2017	9/15/17	11	11
2016	9/8/16	26	26
2015	9/15/15	5	5
2014	9/5/14	8	8
2013	9/3/13	39	39
2012	9/11/12	93	101
2011	11/8/11	86	86
2010	9/7/10	6	6
2009	9/9/09	9	9
2008	9/9/08	15	15
2007	9/22/07	2	2
2006	9/8/06	11	12
2005	9/8/05	0	0
2004	9/10/04	1	1
2003	9/5/03	0	0

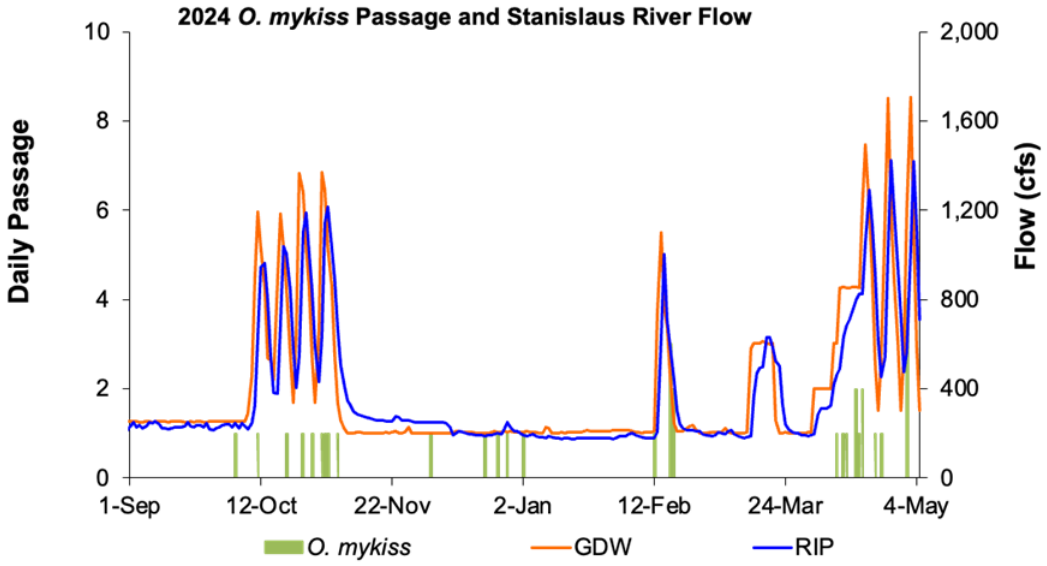
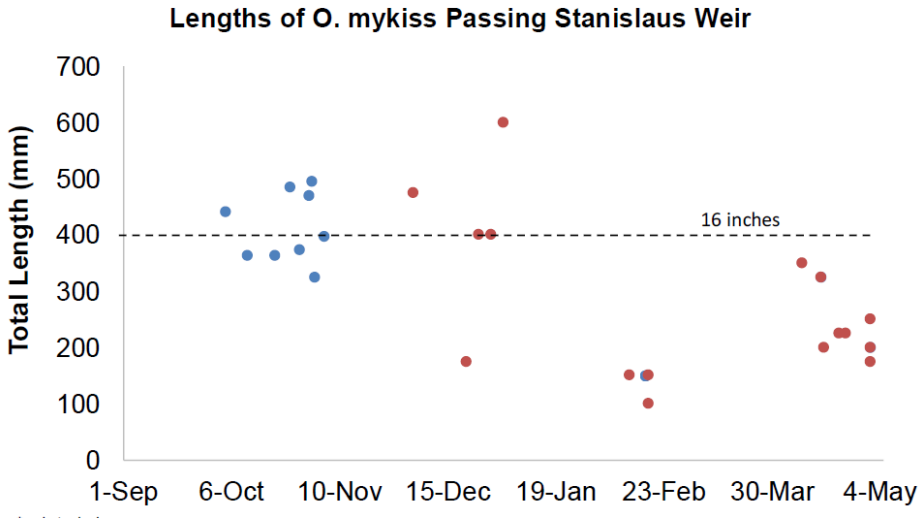


Figure 14. Graph of 2024-2025 O. mykiss passage and Stanislaus River flow.

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, February 2025, and again in early April through May 2025.



* only includes upstream passages.

Figure 15. Individual lengths of O. mykiss passing upstream of the Stanislaus River Weir, 2024-2025. The red markers indicate estimated lengths during backup video monitoring.

Figure 15. Graph is showing the individual lengths of O. mykiss passing upstream of the Stanislaus River Weir, 2024-2025. The red markers indicate estimated lengths during backup video monitoring.

Note: 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. Measurements for O. mykiss passing after November 13 are rough estimates based on known length of backboard image.

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 5/18/2025, PSMFC has captured a total of 2,881 unmarked Chinook salmon. The current peak in daily unmarked Chinook salmon catch occurred on 2/16/2025 with a total of 1,423 captured. Unmarked Chinook salmon are of the parr and silvery parr life stages and fork lengths have averaged approximately 80 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.

C. Shasta

Since the week of April 20, 2025, captured Chinook salmon have been healthy with no mortality or sickness observed.

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]

Stanislaus River RSTs at Caswell Memorial State Park:
Daily catch of unmarked Chinook Salmon and daily average discharge at Ripon during the 2025 Stanislaus River rotary screw trap sampling season.

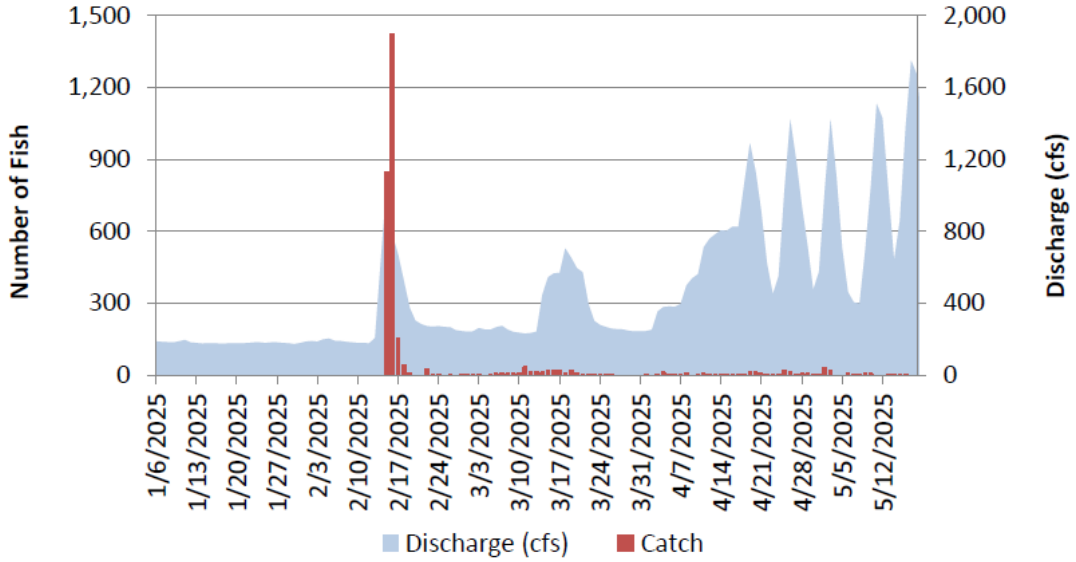


Figure 16. Stanislaus River RSTs at Caswell Memorial State Park

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

Stanislaus River RSTs at Caswell Memorial State Park:
Daily catch of unmarked Chinook Salmon and daily average discharge at Ripon from February 18th to May 18th during the 2025 Stanislaus River rotary screw trap sampling season.

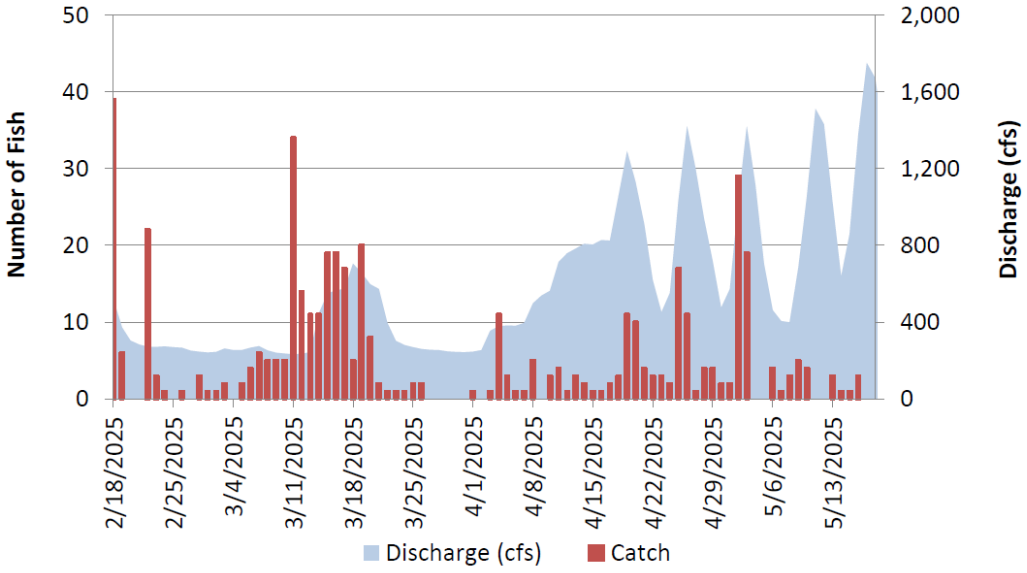


Figure 17. Stanislaus River RSTs at Caswell Memorial State Park

Figure 17. Graph is a bar chart of daily catch of unmarked Chinook Salmon and daily average discharge at Ripon from February 18th to May 13th during the 2025 Stanislaus River rotary screw trap sampling season. The highest peaks occur throughout mid February 2025 and early March 2025.

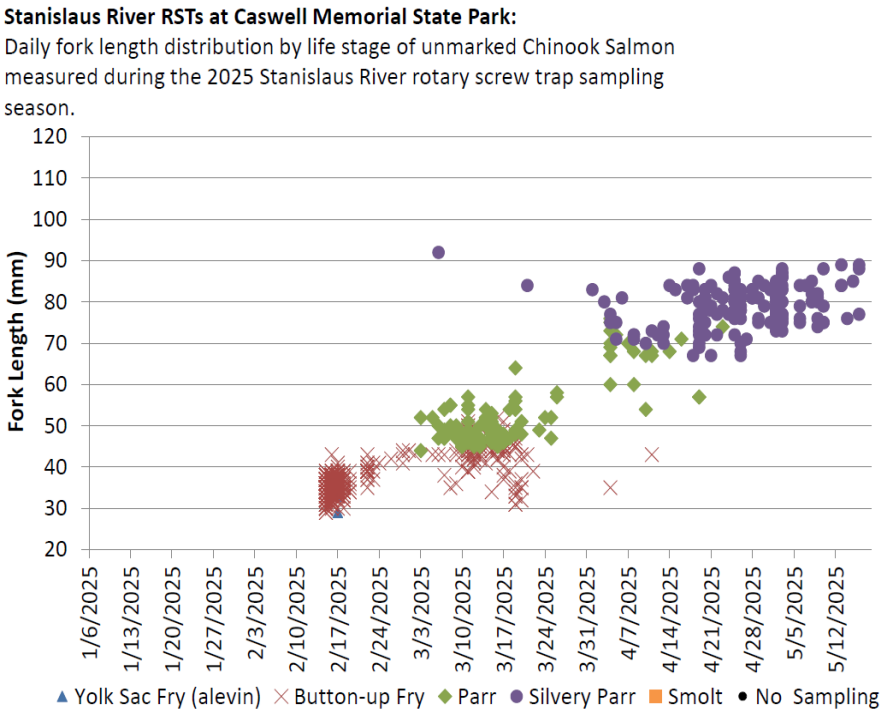


Figure 18. Stanislaus River RSTs at Caswell Memorial State Park

Figure 18. Graph is a point chart of daily fork length distribution by life stage of unmarked Chinook Salmon measured during the 2025 Stanislaus River rotary screw trap sampling season.. The highest peaks occur throughout March 2025 through May 2025.

Item 9. Restoration Project Updates

Applicable updates to be shared at the May meeting.