

Weekly Fish and Water Operations Outlook

2/11/2025 - 2/17/2025

Water Project Operational Intent for Week

The D-1641 standards for CVP/SWP operations in February include:

- 1. Delta Outflow per X2 requirements, and
- 2. E/l ratio no greater than 0.35.

The 2025 OMR management season has begun, so the 14-day averaged OMR index cannot be more negative than -5,000 cfs according to both the Federal Biological Opinions and State ITP unless a "storm flex" option to operate to an OMR index of no more negative than -6,250 cfs is approved by WOMT.

"Storm flex" operations were approved by WOMT for last week; however, the daily average turbidity at Station OSJ exceeded 12 NTU on 2/7/2025, therefore the projects will resume operating to a 14-day averaged OMRI not to be more negative than –5,000 cfs, beginning 2/10/2025.

Biological Context

OMRI shall not be more negative than -5,000 cfs on a 14-day averaged basis during the OMR Management Season. No other restrictions on operations are currently "active".

Forecasted Weather

Cold weather with periodically breezy winds through Tuesday, followed by a robust weather system bringing renewed chances of moderate to heavy rain and mountain snow from mid to late week.

Tables

Table 1: Anticipated weekly operational ranges by tributary. Environmental and fish conditions updated by respective watershed groups at varying intervals that may not coincide with the weekly range of Water Operations shown.

Tributary/Division	Anticipated Weekly Ranges	Related Environmental and Fish Conditions
Clear Creek	 Current Release: 300 cfs Anticipated Weekly Range of Releases: 300 cfs. 	 Fall-run Chinook Salmon eggs hatching, fry are emerging, rearing, and emigrating downstream. Late fall-run Chinook Salmon adults are spawning and their eggs are incubating. Spring-run Chinook Salmon juveniles are rearing and emigrating. O. mykiss adults are migrating and spawning. (Updated 2/11/2025)
Sacramento River	 Shasta Storage: 3.990 MAF Current Release: 60,000 cfs Anticipated Weekly Range of Releases: 40,000 cfs to 60,000 cfs. 	 Spring-run Chinook Salmon fry have all emerged and are migrating downstream. Fall-run adults have completed spawning, fall-run fry downstream passage counts are increasing daily, although fry also remain in gravel Late-fall adults are spawning and eggs are in gravel Winter-run fry are still migrating past RBDD in relatively low numbers. (Updated 1/28/2025)
Feather River	 Oroville Storage: 2.864 MAF Current Release: 30,000 cfs Anticipated Weekly Range of Releases: 20,000 cfs to 35,000 cfs Daily temperature maximum: 55 degrees F at Fish Hatchery 	 Spring-run Chinook Salmon juveniles are emerging and are migrating downstream. Fall-run Chinook Salmon juveniles are emerging and migrating downstream. Adult O. mykiss present and spawning. (Updated 02/11/2025)

Tributary/Division	Anticipated Weekly Ranges	Related Environmental and Fish Conditions
American River	 Folsom Storage: 547 TAF Current Release: 2,500 cfs Anticipated Weekly Range of Releases: 2,500 cfs to 5,000 cfs 	 Eggs are in gravel and incubating. Fry are beginning to emerge and migrate downstream. (Updated 2/11/2025)
Stanislaus River	 New Melones Storage: 1.890 MAF Current Release: 200 cfs Anticipated Range of Weekly Releases: 200 cfs. 	 Juvenile and adult O. mykiss are present. Fall-run Chinook Salmon eggs are in gravel and incubating. Juveniles are emerging and migrating downstream. (Updated 2/11/2025)

Tributary/Division	Anticipated Weekly Ranges	Related Environmental and Fish Conditions
Delta	 Freeport: 60,000 to 80,000 cfs Vernalis: 1,100 to 1,400 cfs Delta Outflow index: 150,000 to 210,000 cfs Combined Exports: 6,000 to 7,700 cfs JPP: 3,400 cfs to 4,200 cfs CCF: 1,800 cfs to 3,500 cfs Expected Daily OMR Index Values: -4,900 to -6,250 cfs DCC Gates: Closed on 11/18. X2 = < 56 km Tides: Transitioning from Spring to Neap; Full Moon on 2/12 	 Yearling and YOY Chinook Salmon are migrating into the Delta. In the last 4 weeks adult Delta smelt have been detected in Cache Slough, the SDWSC, the lower Sacramento and San Joaquin rivers, Suisun Marsh, and Suisun Bay. Two marked adult Delta smelt were detected in salvage at TFCF on 2/13/25, bringing cumulative salvage to 17. A total of 124,946 individual adult Delta smelt were released in WY2025. So far, there have been 66 confirmed detections of cultured Delta smelt. Larval longfin smelt have been detected in the Central and South Delta (6 larval longfin smelt at stations 809 and 812 during SLS 4), the Sacramento River, Suisun Marsh, Suisun Bay, the Confluence, the Napa River, Carquinez Strait, and San Pablo Bay. Juvenile longfin smelt have been detected in Suisun Marsh, Suisun Bay, Grizzly Bay, the Lower Sacramento River, and at Chipps Island. Adult longfin smelt have been detected in the Napa River, Suisun Marsh and Bay, Central and South Delta, Sacramento River, and Chipps Island. Adult LFS have also been detected in salvage at TFCF. (Updated 2/18/2025)

Table 2: WY 2025 Salmonid Current Loss and Delta Smelt Abiotic Conditions. Additional Real-Time OMR Restrictions and Performance Objectives (4.10.5.10.2, 4.10.5.10.3) and Onset of OMR Management (4.10.5.10.1). Genetic identification of salmon is not used in calculating loss, but results are included in the Assessment as they become available.

Species/run	Threshold	Current Status	Weekly Trend	Updated
Green sturgeon	WY 2025 salvage = 74	WY 2025 salvage = (0%)	No change expected	2/11/2025
Natural winter-run Chinook Salmon	See Table 3a	See Table 3a	See Table 3a	2/11/2025
Natural Steelhead	50% threshold – 1500	WY 2025 loss = 61.23 (4% of 50% threshold)	Salvage increasing	2/11/2025
	75% threshold - 2250			
	100% threshold - 3000			
Steelhead Weekly Loss Threshold	7-day rolling sum of steelhead salvage exceeds loss of 120 fish	No exceedances – 7 day rolling sum as of 2/10/25 = 27	Salvage increasing	2/11/2025
Sacramento River Hatchery winter- run Chinook salmon	See Table 3a	See Table 3a	See Table 3a	2/11/2025
Battle Creek Hatchery winter- run Chinook salmon	See Table 3a	See Table 3a	See Table 3a	2/11/2025
Proposed Action Hatchery yearling spring-run Chinook salmon surrogates	See Table 3a	See Table 3a	See Table 3a	2/11/2025
Delta Smelt	See Table 3b	See Table 3b	See Table 3b	1/06/2025
Longfin Smelt	See Table 3c	See Table 3c	See Table 3c	1/06/2025

Table 3a-d: Relevant Water Year 2025 Fish Criteria and Status for Listed Fish under the SWP Long-Term Incidental Take Permit.

Table 3a: Chinook Salmon

* No draft WR JPE for WY 2025. Final JPE letter is expected in January. A JPE surrogate is currently being used for COA 8.4.4 until the final JPE is issued.

Action	Timeframe	Current Action Status	Threshold(s)	Current Relevant Data	Weekly Trend	Last Updated	Comments
Onset of OMR Management (8.3)	Jan. 1 - Jun. 30	In effect	Begins January 1 or earlier if COA 8.3.1, COA 8.3.2, or COA 8.3.3 are in effect (see Table 3b)	N/A	N/A	1/27/25	N/A
Winter-run Annual Loss (8.4.3)	July 1 - Jun. 30	In effect	-Natural-origin Winter-run Loss Threshold: 0.5% of JPE -Hatchery- origin Winter- run Loss Threshold: 0.12% of JPE	Confirmed Genetic WR Annual Loss = 5.14	Likely to observe salvage due to seasonal timing	2/10/25	Salvage of LAD unclipped older juvenile during the last week occurred at both fish facilities.
Natural- origin Winter-run Early Season Weekly Loss Thresholds (8.2.1)	Nov. 1- Dec. 31	Not in Effect	N/A	N/A	N/A	2/4/25	N/A

Action	Timeframe	Current Action	Threshold(s)	Current Relevant	Weekly Trend	Last	Comments
Natural- origin Winter-run Weekly Loss (8.4.4)	Jan 1 – June 30	In effect	Thresholds based on Table	2/5/25- 2/11/25 Threshold: 32.46 Upcoming: 2/12/25- 2/18/25 Threshold:	Based on salvage thru 2/9 7-day loss: 2.60 Total loss of 7 day rolling sum (includes genetically confirmed): 2.60	2/10/25	Loss of genetic natural origin winter-run chinook this week was 2.60 No LAD older juveniles are pending analysis.
Spring-run Protection Action and Surrogate Annual Loss (8.4.5)	Natural- origin: Oct. – June 30 Hatchery- origin: Nov. 1 – June 30	Natural- origin:-In effect Hatchery- origin: In effect	Group 1: 1,747.23 (0.25% of 698,892 fish released) Group 2: 193.39 (0.25% of 77,355 fish released) Group 3: 186.10 (0.25% of 74,725)	Current Loss for Group #1 through 2/9/25: 994.05 (56.89% of the loss threshold) Current Loss for Group #2 through 2/9/25: 72.52 (37.50% of the loss threshold) Current Loss for Group #3 through 2/9/25: 8.36 (4.49% of the loss threshold)	Likely to see more salvage	Group 1, 2 & 3 updated 2/10/25	No natural- origin Chinook Salmon spring-run salmon have been salvaged yet in WY 2025.

Table 3b: Delta Smelt

Action	Timeframe	Current Action Status	Threshold(s)	Current Relevant Data	,		Comments
First Flush Action (8.3.1)	Dec. 1 – last day of February	Dec. 16, implemented from Dec. 19 through Jan 1, 2025	- three-day Freeport (FPT) daily flow running avg>= 25,000 AND [three-day Freeport turbidity running avg >=50 NTU OR Smelt Monitoring Team recommendation]	FPT 3-day avg. Flow = Not relevant Turbidity = Not relevant	N/A	1/6/2025	N/A

Action Time	Current Action frame Status	Threshold(s)	Current Relevant Data	Weekly Trend		Comments
Bridge at Jers Avoidance") Point (8.3.2) Rio Vis	triggered Last triggered on ratures 1/12 and (SJJ) or sta 1/15-1/17 exceed	average temperature offramp at Jersey Point (SJJ) or Rio Vista (RVB) > 12 °C (53.6 °F) -OBI, OSJ, and HOL turbidity>12 FNU -Vernalis flow > 10,000 cfs (temporary offramp); <8,000 cfs (reinstated)	Turbidity = 9.98 FNU OBI Turbidity = 7.40 FNU 3-d SJJ temp = 10.24 °C 3-d RVB temp = 10.39 °C Vernalis Flow = 1,100 to 1,400 cfs	Turbidity is likely to decrease	2/18/25	N/A
Larval and Juvenile Delta smelt Protection (8.4.1) After A Delta service Entrain Protection ends	smelt nment	SLS/20mm Secchi depth for 12 south delta stations <= 1m -Rio Vista flows: 140,000-200,000 -Vernalis flows:	Current 5- day salvage = Not relevant Secchi depth = Not	N/A	2/10/25	N/A

Table 3c: Longfin Smelt

Action	Timeframe	Current Action Status	Threshold(s)	Current Relevant Data	Weekly Trend		Comments
Adult LFS Protection (8.3.3)	Dec. 1 - end of February	Active; not triggered	-Cum. salvage > (Age 1+ LFS Index/20) +1 = 181 fish	Cum LFS salvage greater than 60mm = 8	No change expected	1/7/25	N/A
Larval and Juvenile Longfin Smelt Entrainment Protection (8.4.2)	Jan. 1 – Jun. 30	Off-ramped on 1/29. Triggered on 1/19 and 1/28. Implemented 1/20-1/26	-7-day average QWEST < +1,500 cfs, AND LFS larvae or juveniles in most recent SLS or 20 mm survey at 809 & 812 > 50; OR cumulative salvage > 50 or 75% avg annual salvage 2009-present -Rio Vista flows >55,0000 cfs or Vernalis flows >8,000 cfs (temporary offramp); <40,000 cfs (Rio Vista) or <5,000 (Vernalis) reinstated	7-day average QWEST = +13,000cfs Larval/juvenile (>20mm) 809 + 812 catch (SLS 4) = 9 Cumulative juvenile (>20mm) salvage = 0 Rio Vista current Flow = 157,174cfs Vernalis current Flow = 2,652cfs		2/18/25	N/A

Table 3d: OMR

Action	Timeframe	Current Action Status		Current Relevant Data	Weekly Trend		Comments
OMR Storm Flex (8.5)	Start of OMR – Onramp of Larval and Juvenile DS Protection Action (8.4.1) or last day of February (whichever occurs first)	Active	-Delta is in excess -QWEST is > +1,500 cfs -X2 is < 81 km - Daily average turbidity at OSJ, HOL, and OBI are <12 FNU -Higher level of outflow available for diversion due to storm flows -Measurable amount of precipitation has occurred -None of COA's are controlling operations (8.2.1, 8.3.2, 8.3.3, 8.4.2, 8.4.3, 8.4.4, 8.4.5, 8.4.7) -Cumulative loss at CVP and SWP of yearling CNFH LFR Chinook salmon (as yearling CHNSR surrogates) is < 0.5% with any of the release groups	QWEST=15,000cfs X2 < 56km OSJ Turbidity = 16.78 NTU HOL Turbidity = 9.98 FNU OBI Turbidity = 7.40 FNU No relevant salmon loss threshold exceedances (see Tables 2a & 3a) No COA's are controlling operations	QWEST variable	2/18/25	Based on storm conditions

Action	Timeframe	Current Action Status		Current Relevant Data	Weekly Trend		Comments
End of OMR Management (8.6)		Not in effect	Smelt: -Daily mean water temperature at Clifton Court Forebay (CLC) is > or equal to 25 C for 3 consecutive days Salmonids: -Current daily average water temperature is > 22.2 C at Mossdale and Prisoners Point for 7 days (can be non- consecutive).	N/A	N/A	11/12/24	N/A

Table 4: Fish monitoring gear efficiency and disruptions. Status Categories: [1] Active (ongoing sampling), [2] Partial Interruption (some sampling interruptions), [3] Interrupted (sampling fully suspended), [4] Not Active (sampling not scheduled)

Monitoring survey	Region	Notes (as of 2/11/2025)	Status
SWP regular counts, CWT reading	Delta	Active	1
SWP larval sampling	Delta	Not Active	4
CVP regular counts, CWT reading	Delta	Active	1
CVP larval sampling	Delta	Not Active	4
Smelt Larval Survey	Delta	Active	1
LES	Delta	Active	1
20mm Survey	Delta	Not Active	4
Fall Mid-water Trawl	Delta	Not Active	4
Summer Townet Survey	Delta	Not Active	4
Bay Study	Delta	Active	1
DJFMP- Chipps and Sacramento Trawls	Delta	Active	1
DJFMP- Seines	Delta	Active	1
EDSM	Delta	Active	1
EMP	Delta	Active	1
Mossdale	Delta	Active	1
USGS Flow monitoring	Delta	Active	1
Red Bluff Diversion Dam Rotary Screw Trap (RST)	Sacramento River	Active	1
Knights Landing RST	Sacramento River	Active	1
Tisdale RST	Sacramento River	Not Active	4
GCID RST	Sacramento River	Not Active	4
Mill Creek RST	Mill Creek	Active	1
Deer Creek RST	Deer Creek	Inactive	4
Yuba River (Hallwood) RST	Yuba River	Not Active	4
Butte Creek Carcass Surveys	Butte Creek	Not Active	4
Butte Creek RST	Butte Creek	Active	1
Redd dewatering and stranding surveys	Sacramento River	Active	1

Monitoring survey	Region	Notes (as of 2/11/2025)	Status
Sacramento Carcass and Redd Surveys (late fall- run Chinook Salmon)	Sacramento River	Active	1
Lower Sacramento RST	Sacramento River	Not Active	4
Feather River (upper DWR) RST	Sacramento River	Active (Eye side RST active/Herringer RST not active)	1
Feather River (lower CDFW) RST	Sacramento River	Not Active	4
Feather River Carcass Survey (fall-run Chinook Salmon)	Sacramento River	Active	1
SJRRP CDFW Field Monitoring	San Joaquin River	Active	1
SJRRP USFWS and USBR Field Monitoring	San Joaquin River	Active	1
Stanislaus Fish Weir	San Joaquin River	Active	1
Stanislaus River Carcass Survey (steelhead)	San Joaquin River	Active	1
American River Carcass Survey	Sacramento River	Not Active	4

Preference (i.e., a y-intercept of 0.5)