

Weekly Fish and Water Operations Outlook

6/24/2025 - 6/30/2025

Water Project Operational Intent for Week

The D-1641 standards for CVP/SWP operations in June include X2 Delta Outflow requirements and water quality standards to protect the diversion of irrigation water from the Delta.

SWP and CVP exports are governed by SWRCB's 0.35 E/I ratio and applicable OMR constraints under ESA.

Biological Context

Water temperatures in the Delta are increasing. OMR shall not be more negative than –5,000 cfs, unless more restrictive OMR thresholds are triggered by other conditions.

Forecasted Weather

Dry weather continues this week. Relatively cool on Monday, then near normal temperatures with onshore flows.

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

Tributary/Division	Anticipated Weekly Ranges	Related Environmental and Fish Conditions
Clear Creek	 Current Release: 250 cfs Anticipated Weekly Range of Releases: 125 cfs to 250 cfs 	 Adult spring-run Chinook Salmon are migrating to the creek and holding. Spring, fall, and late fall-run Chinook Salmon fry are rearing and emigrating. O. mykiss/steelhead are rearing and emigrating. (Updated 5/13/2025)

Tributary/Division	Anticipated Weekly Ranges	Related Environmental and Fish Conditions
Sacramento River	Shasta Storage: 3.918 MAF Current Release: 13,000 cfs Anticipated Weekly Range of Releases: 12,000 cfs to 13,000 cfs.	 Spring-run Chinook adults are migrating upstream and holding. Winter-run Chinook adults are actively spawning, now through July. Fall-run adults are beginning to migrate upstream from the ocean and will hold till late September spawning. Late fall-run Chinook fry are rearing and emigrating downstream. Spring and Fall-run Chinook Salmon smolts are migrating downstream; however, most are anticipated to be out of the system due to seasonal migration and warmer water temperatures. O. mykiss/steelhead eggs incubating and hatching and fry are rearing and emigrating. White sturgeon are currently spawning and larvae are moving downstream. Larval Green Sturgeon are hatching (as observed by USFWS) and redistributing from spawning and incubation areas in low numbers (Updated 6/9/2025)
Feather River	 Oroville Storage: 3.365 MAF Current Release: 4,500 cfs Anticipated Weekly Range of Releases: 4,500 cfs to 8,500 cfs Daily temperature maximum: 60 +/- 4 degrees F at Fish Hatchery 	The state of the s

Tributary/Division	Anticipated Weekly Ranges	Related Environmental and Fish Conditions
American River	 Folsom Storage: 866 TAF Current Release: 2,500 cfs Anticipated Weekly Range of Releases: 2,500 to 3,000 cfs 	Fall-run Chinook Salmon Fry are migrating downstream in low numbers. Most have already exited the system. (Updated 6/2/2025)
Stanislaus River	 New Melones Storage: 1.842 MAF Current Release: 1,000 cfs Anticipated Range of Weekly Releases: 700 cfs to 1,500 cfs 	 Juvenile and adult O. mykiss are present. O. mykiss are spawning and fry are emerging Fall-run Chinook fry are migrating downstream. (Updated 6/2/2025)

Tributary/Division	Anticipated Weekly Ranges	Related Environmental and Fish Conditions
Delta	 Freeport: 15,500 cfs to 18,000 cfs Vernalis: 700 cfs to 1,600 cfs Delta Outflow index: 9,500 to 12,000 cfs Combined Exports: 4,200 to 5,200 cfs JPP: 3,200 cfs to 4,200 cfs CCF: 0 cfs to 2,000 cfs Expected Daily OMR Index Values: -4,800 to -5,100 cfs DCC Gates: Open until further notice. X2 = 79 km Tides: Transition from Spring to Neap; New Moon on June 25th. 	 YOY Chinook Salmon are migrating through the Delta and exiting the system. Larval white sturgeon have been detected in the Sacramento River and Miner Slough. Adult Delta smelt were last detected by EDSM on 3/17/25 in the SDWSC. The most recent detection was a juvenile Delta Smelt in Suisun Marsh caught by EDSM on 6/20/25. A total of 124,946 individual adult Delta smelt were released in WY2025. So far, there have been 79 confirmed detections of cultured Delta smelt. Cumulative adult Delta smelt salvage is 17. Larval longfin smelt have been detected in the Central and South Delta, the Sacramento River, Suisun Marsh, Suisun Bay, the Confluence, Carquinez Strait, and San Pablo Bay. Juvenile longfin smelt have been detected in South and Central San Francisco Bay, San Pablo Bay, Chipps Island, Suisun Marsh, Suisun Bay, and the Confluence Adult longfin smelt were last detected May 19 in Central San Francisco Bay. Adult, juvenile, and larval LFS have been detected in salvage. Cumulative adult LFS salvage = 8 and cumulative juvenile LFS salvage = 204. (Updated 6/23/2025)

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 = 1 (1.3%)	Occasional salvage possible	5/27/25
Natural winter-run Chinook Salmon (JPE= 98,982)	Incidental Take Limit= 554 Annual thresholds 50%= 277 fish 75%= 415 fish 100%= 554 fish	Loss= 28.82 (5.2% of threshold) 7-day rolling sum as of 6/02/25 = 0.00	Salvage is unlikely in the upcoming week.	6/2/25
Natural Steelhead	100% threshold = 3,000	WY 2025 loss = 607 (20% of threshold) as of 6/16/25	Salvage is unlikely in the upcoming week.	6/23/25
Steelhead Weekly Loss Threshold	7-day rolling sum of steelhead salvage exceeds loss of 120 fish	No exceedances – 7 day rolling sum as of 6/16/25 = 0	Salvage is unlikely in the upcoming week.	6/23/25
Sacramento River Hatchery winter- run Chinook salmon (JPE= 135,342)	Annual thresholds 50%= 81 fish 75%= 122 fish 100%= 162 fish	Loss = 216.58 (133%) 50%= exceeded 3/18 75%= exceeded 3/19 100%= exceeded 3/22	Salvage is unlikely in the upcoming week.	4/15/25
Battle Creek Hatchery winter- run Chinook salmon	JPE = 2,868	Loss = 0 (0%)	Released on 4/16/25.	4/21/25
Proposed Action Hatchery yearling spring-run Chinook salmon surrogates	See Table 3a	See Table 3a	See Table 3a	4/7/25
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 2023 Fish Criteria and Status for Listed Fish under the SWP Long-Term Incidental Take Permit.

Table 3a: Chinook Salmon

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	3/10/25	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 (494.47) -Hatchery-origin Winter-run Loss Threshold: 0.12% of JPE (162.41) -Battle Creek Loss threshold: 0.12% of JPE (3.44)	Confirmed Genetic WR Annual Loss = 28.82 Hatchery origin Winter-run Loss = 216.58 Battle Creek Winter-run Loss = 0	Unlikely to observe salvage of natural or hatchery- origin winter-run based on historical salvage.	6/23/25	50%, 75%, and 100% of the LSNFH loss threshold was hit on 3/18/25, 3/19/25, and 3/22/25 respectively. 117,225 BY 2024 WR was released in Battle Creek on 4/16/25.
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 Status	Threshold(s)	Current Relevant Data	Weekly Trend	Last Updated	Comments
Natural-origin Winter-run Weekly Loss (8.4.4)	Jan 1 – June 30	In effect	Thresholds based on Table 4, Column E of 2024 SWP ITP: [Annual Loss Threshold (based on JPE surrogate) x 50% of Annual Loss Threshold x Winter-run in Delta (based on Column E)]		Based on salvage thru 6/22/25 7-day LAD loss: 0.00 Total loss of 7 day rolling sum (includes genetically confirmed): 0	6/23/25	No LAD or Genetically confirmed Older Juvenile has been salvaged at Delta fish facility

Action	Timeframe	Current Action Status	Threshold(s)	Current Relevant Data	Weekly Trend	Last Updated	Comments
Spring-run Protection Action and Surrogate Annual Loss (8.4.5)	– June 30 Hatchery-	Natural- origin:-In effect Hatchery- origin: In effect	Yearling spring run surrogates: 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) YOY spring run surrogates: Group 1: 1,191.85 (0.25% of 476,741) Group 2: 1,189.58 (0.25% of 475,831) Group 3: 1,260.76 (0.25% of 504,304) Group 4: 1,737.93 (0.25% of 695,170) Group 5: 940.31 (0.25% of 376,122) Group 6: 920.22 (0.25% of 368,085)	Yearling spring-run Surrogates: Current Loss for Group #1 through 5/18/25: 1,050.61 (60.13% of the loss threshold) Current Loss for Group #2 through 5/18/25: 72.52 (37.50% of the loss threshold) Current Loss for Group #3 through 5/18/25: 43.33 (23.28% of the loss threshold) YOY Spring-run Surrogates: Current loss for FR YOY spring-run surrogate Group 1: 16.56 (1.39 % of the loss threshold) Current loss for FR YOY spring-run surrogate Group 2: 110.14 (9.26 % of the loss threshold) Current loss FR YOY spring-run surrogate Group 3: 0 Current loss CNFH YOY spring-run surrogate Group 4: 0 Current loss FR YOY spring-run surrogate Group 5: 0 Current loss FR YOY spring-run surrogate Group 5: 0	Unlikely to see salvage in the upcoming week	Yearling Group 1, 2 & 3 and YOY Group 1, 2, 3, 4, 5 & 6 updated through 6/8/25 salvage data for SWP and CVP.	No loss from any spring run surrogate group occurred last week.

Table 3b: Delta Smelt

Action	Timeframe	Current Action Status	Threshold(s)	Current Relevant Data	Weekly Trend	Last Updated	Comments
First Flush Action (8.3.1)	Dec. 1 – last day of February	Off ramped Action triggered on 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]	= Not relevant	N/A	1/6/2025	N/A
Adult Delta Smelt Entrainment Protection ("Turbidity Bridge Avoidance") (8.3.2)	After IEWPP or Dec. 20 until 3-day average temperatures at Jersey Point (SJJ) or Rio Vista (RVB) exceed 12 °C (53.6 °F)	of 2/25/25	Occurs after the Integrated Early Winter Pulse protection or December 20 (whichever comes first) until 3-day 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)	= Not relevant OBI Turbidity = Not relevant	N/A	2/25/25	N/A

Action	Timeframe	Current Action Status	Threshold(s)	Current Relevant Data	Weekly Trend	Last Updated	Comments
Larval and Juvenile Delta smelt Protection (8.4.1)	After Adult Delta smelt Entrainment Protection ends	Active as of 2/25/25. Not triggered.	SLS/20mm Secchi depth for 12 south delta stations <= 1m -Rio Vista flows >55,0000 cfs or Vernalis flows >8,000 cfs (temporary offramp); <40,000 cfs (Rio Vista) or <5,000 (Vernalis) action reinstated	Secchi depth = 149 cm (20-mm Survey 7) Rio Vista flows =9,000 cfs Vernalis flows = 1,059 cfs	N/A	6/23/25	N/A

Table 3c: Longfin Smelt

Action		Current Action Status		Current Relevant Data	Weekly Trend	Last Updated	Comments
	Dec. 1 - end of February		-Cum. salvage > (Age 1+ LFS Index/20) +1 = 181 fish	salvage	No change expected	3/17/25	N/A

Action	Timeframe	Current Action Status	Threshold(s)	Current Relevant Data	Weekly Trend	Last Updated	Comments
Larval and Juvenile Longfin Smelt Entrainment Protection (8.4.2)	Jan. 1 – Jun. 30	Active; not triggered. Triggered on 1/19 and 1/28. Implemented 1/20-1/26	larvae or juveniles in	QWEST = -738 cfs Larval/juvenile (>20mm) 809 + 812 catch (20-mm 7) = 0 Cumulative juvenile (>20mm) salvage = 204 Rio Vista flows =	N/A	6/16/25	N/A

Table 3d: White Sturgeon

Action	Timeframe	Current Action Status	Threshold(s)	Current Relevant Data	Weekly Trend	Last Updated	Comments
White Sturgeon Entrainment Protection Action (8.4.7)	Year-round	Not met Survey	-YOY WS detected in one of the listed north or central Delta survey stations in the last 90 days - Mean total exports for the last 90 days ≥ 14,296.76 + (- 0.41)*(90-day average Vernalis flow	20-mm	More YOY detections possible Flow/ Exports conditions unlikely to meet criterion		Survey Conditions met until 7/2/2025 WY 2025 salvage = 4

Table 3e: OMR

Action	Timeframe	Current Action Status	Threshold(s)	Current Relevant Data	Weekly Trend	Last Updated	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)	Not in effect	-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		N/A	6/9/25	N/A

Action	Timeframe	Current Action Status	Threshold(s)	Current Relevant Data	Weekly Trend	Last Updated	Comments
End of OMR Management (8.6)	Jun. 1 – Jun. 30	In effect	Smelt: -Daily mean water temperature at Clifton Court Forebay (CLC) is > or equal to 25°C for 3 consecutive days Salmonids: -Daily mean water temperature is > 22.2 C at Mossdale and Prisoners Point for 7 days (can be non- consecutive).	Smelt: CLC temperatures (°C) 6/21- 6/23: 22.2, 22.8, 23.2 Salmonids: Prisoners Point days of exceedance of 22.2 C: 6/1, 6/2, 6/3, 6/4, 6/5, 6/14, 6/15 Mossdale days of exceedance of 22.2 C: 6/18	OMR Management will likely not end this upcoming week	6/24/2025	Temperatures at PPT have exceeded 22.2 C for 7 days; however, temperatures at MSD have only hit 22.2 C on 6/18 so 6 days are still remaining before off ramping. Temperatures at CLC have not yet exceeded 25 C. It is likely that OMR management will not be offramped early this year and will end of June 30

Action	Timeframe	Current Action Status	Threshold(s)	Current Relevant Data	Weekly Trend	Last Updated	Comments
Spring Outflow (COA 8.12.1)	April 1 – May 31	Not in effect	Critical year: ratio of Vernalis flow to SWP and CVP combined exports shall be 1 to 1. Dry year: ratio of Vernalis flow to SWP and CVP combined exports shall be 2 to 1. Below Normal year: ratio of Vernalis flow to SWP and CVP combined exports shall be 3 to 1. Above Normal/Wet year: ratio of Vernalis flow to SWP and CVP combined exports shall be 3 to 1. Above Normal/Wet year: ratio of Vernalis flow to SWP and CVP combined exports shall be 4 to 1	High flow offramp (Delta Outflow greater than 44,500 cfs) was in effect from 4/1/25 - 4/9/25	N/A	4/22/25	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 6/24/2025)	Status
SWP regular counts, CWT reading	Delta	Active	1
SWP larval sampling	Delta	Not Active	4

Monitoring survey	Region	Notes (as of 6/24/2025)	Status
CVP regular counts, CWT reading	Delta	Active	1
CVP larval sampling	Delta	Not Active	4
Smelt Larval Survey	Delta	Not Active	4
LES	Delta	Not Active	4
20mm Survey	Delta	Partial Interruption (Ending week of June 23)	2
Fall Mid-water Trawl	Delta	Not Active	4
Summer Townet Survey	Delta	Active	1
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 (CDFW)	1
USGS Flow monitoring	Delta	Active	1
Red Bluff Diversion Dam Rotary Screw Trap (RST)	Sacramento River	Active	1
Knights Landing RST	Sacramento River	Not Active	4
Tisdale RST	Sacramento River	Not Active	4
GCID RST	Sacramento River	Not Active	4
Mill Creek RST	Mill Creek	Not Active	4
Deer Creek RST	Deer Creek	Not Active	4
Yuba River (Hallwood) RST	Yuba River	Active	1
Butte Creek Carcass Surveys	Butte Creek	Not Active	4
Butte Creek RST	Butte Creek	Not Active	4
Redd dewatering and stranding surveys	Sacramento River	Active	1
Sacramento Carcass and Redd Surveys (winter-run Chinook Salmon)	Sacramento River	Active	1
Lower Sacramento RST	Sacramento River	Not Active	4
Feather River (upper DWR) RST	Sacramento River	Not Active	4

Monitoring survey	Region	Notes (as of 6/24/2025)	Status
Feather River (lower CDFW) RST	Sacramento River	Not Active	4
Feather River Carcass Survey (fall-run Chinook Salmon)	Sacramento River	Not Active	4
Sonar, telemetry (sturgeon)	Feather River	Active	1
Egg mats (sturgeon)	Feather 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)