



— BUREAU OF —
RECLAMATION

Weekly Fish and Water Operations Outlook

6/16/2026 - 6/22/2026

Water Project Operational Intent for Week

The D-1641 water quality constraints are the controlling factor for Project system operations. Per Action 5 and ITP COA 8.3 (SWP), combined Delta exports do not cause OMRI to be more negative than -5,000 cfs on a 14-day average basis.

Biological Context

No additional regulatory actions have been triggered that currently impact CVP or SWP water project operations.

Forecasted Weather

Dry and warm conditions continue this week. The hottest temperatures will be at the start of the week. Cooler temperatures from Thursday into next weekend with increased Delta breeze.

Tables

Table 1: Anticipated weekly operational ranges by tributary. Environmental and fish conditions are 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: 750 cfs • Anticipated Range of Weekly Releases: 350 cfs to 750 cfs	• Spring-run, fall-run, and late fall-run Chinook Salmon juveniles are rearing and out-migrating in low numbers. • Adult spring-run Chinook are entering the creek and migrating upstream. • Adult <i>O. mykiss</i>/steelhead eggs are incubating, and juveniles are rearing and out-migrating. • (Updated 05/04/2026)
Sacramento River	• Shasta Storage: 3,787 MAF • Current Release: 11,500 cfs	• Juvenile late-run chinook salmon smolts are migrating downstream in low numbers • Adult Winter-run Chinook salmon have begun spawning • Late fall-run Chinook Salmon have completed spawning. Early eggs are in the gravel. Fry are being captured sporadically in low numbers. • Larval Green Sturgeon are being caught daily in decreasing numbers along with sporadic catch of juvenile size class sturgeon. • (Updated 06/16/2026)
Feather River	• Oroville Storage: 3,248 MAF • Current Release: 4,500 cfs • Anticipated Weekly Range of Releases: 4,000 cfs to 4,500 cfs • Daily temperature maximum: 55 °F at Fish Hatchery	• Adult spring-run Chinook are migrating upstream. • Adult <i>O. mykiss</i> are migrating upstream. • Few sturgeon are still on their spawning grounds. • (Updated 06/16/2026)
American River	• Folsom Storage: 947 TAF • Current Release: 2,500 cfs • Anticipated Weekly Range of Releases: 2,000 cfs to 3,000 cfs	• Juvenile steelhead are likely still rearing. • Fall-run juveniles have likely exited the system. • (Updated 6/16/2026)

Tributary/Division	Anticipated Weekly Ranges	Related Environmental and Fish Conditions
Stanislaus River	• New Melones Storage: 1.758 MAF • Current Release: 1,700 cfs • Anticipated Range of Weekly Releases: 700 cfs to 1,700 cfs	• Spring and fall run have likely exited the system. • (Updated 6/16/2026)
Delta	• Freeport: 11,500 cfs to 13,000 cfs • Vernalis: 1,200 cfs to 2,100 cfs • Delta Outflow index: 9,000 to 11,000 cfs • Combined Exports: 1,200 to 2,300 cfs • JPP: 900 cfs to 1,800 cfs • CCF: 300 cfs to 500 cfs • Expected Daily OMR Index Values: -1,100 cfs to -2,600 cfs • Rio Vista Flows: 7,000 cfs to 10,000 cfs • DCC Gates: Closed June 15 • Georgiana Slough BAFF is off for the season • X2 > 81 km • Qwest daily: +2,900 cfs • Qwest 7-day average: +400 cfs • Forecasted Weekly Range of 7-day averaged Qwest: 100 cfs to 1,600 cfs • JPF: 300 cfs to 2,000 cfs • Tides: Transition from Spring to Neap; Last Quarter Moon on June 21.	• Fall-run Chinook salmon juveniles are being observed at Chipps Island. • 163,349 unmarked Delta smelt were released in fall 2025. On 6/2, USFWS released ~4,000, 120dph Delta smelt at Sherman Island (non-production release). A total of 44 adult and 30 juvenile Delta smelt have been observed in Suisun Marsh, the lower Sacramento River, the SDWSC, and at CVP salvage facilities. The most recent observations were of two adults caught by EDSM in Suisun Marsh on 3/24/26 and 3/18/26. An adult was detected in salvage at the TFCF on 3/6/2026. • A total of 303 sub-adult and adult Longfin Smelt have been observed in the Chipps Island Trawl for WY2026, with the last detection being on 03/12/2026. • The SLS survey detected 8,755 larval and juvenile longfin smelt in WY 2026. • The CDFW 20mm survey has preliminarily detected 4,247 larval and juvenile longfin smelt in 2026. Sample processing is ongoing for all 20mm surveys. <i>*Unidentified Hypomesus spp. larvae from the CDFW and USFWS 20mm surveys are not listed; all data preliminary pending genetic confirmation.</i> • (Updated 06/16/2026)

Table 2: WY 2026 Salmonid Current Loss and Delta and Longfin Smelt Abiotic Conditions.

Species/run	Threshold	Current Status	Weekly Trend	Updated
Green sturgeon	Annual ITL= 14 3-year rolling average ITL= 5	Salvage = 15	Occasional salvage possible	06/15/26
Winter-run Chinook Salmon juveniles (JPE= 1,057,452 (genetically confirmed unclipped); 130,096 (LSNFH Sacramento River); 5,186 (LSNFH Battle Creek))	Genetically confirmed unclipped Annual ITL = 5,922; loss threshold= 10,575 LSNFH releases (Annual ITL and loss threshold) Sacramento River = 1,301 Battle Creek = 52	Confirmed Natural-Origin Genetic loss= 45.43(0.43%) LSNFH loss = 57.91 (4.45%)	Salvage not likely to occur.	4/21/26
Central Valley Steelhead	¹ Clipped = 3565 ² Unclipped = 5914	Hatchery Loss = 1,898 (29.02 of threshold) Natural-origin loss = 265 (5.00%)	Salvage of clipped and unclipped fish is likely to continue in the upcoming week.	05/26/26
Spring-run Chinook salmon surrogate releases	Yearling: Annual ITL: 0.5% of 75,119 = 376; 60,873 = 304; 57,109=286 Loss Threshold: 1% of 75,119 = 751 60,873 = 609 57,109 = 571 Young of Year= TBD	Yearling loss = 257.32 Group 1 (75,119) Loss: 0 Group 2 (60,873) Loss: 261.57 Group 3 (57,109) Loss: 35.06 0 (0.00% of annual loss threshold) spring-run surrogate YOY (Feather River Spring-Run) N/A	Salvage of YOY is possible but salvage of yearling is unlikely.	04/21/26

Species/run	Threshold	Current Status	Weekly Trend	Updated
First Flush (onset of Entrainment Management Season)	Freeport flows $\geq 25,000$ cfs AND Freeport turbidity ≥ 50 FNU	See Table 3b First flush conditions were met on 12/23/25 and implemented by CVP on 12/25/25-1/7/26.	N/A	12/29/25
Delta smelt adults	JPF < 0 AND daily average turbidity ≥ 12 FNU in OMR corridor UNTIL Average water temperatures at Jersey Point or Rio Vista $\geq 12^{\circ}\text{C}$ (53.6°F) for 3 consecutive days	Not active Jersey Point temp: 12.05 $^{\circ}\text{C}$ on 2/10 12.09 $^{\circ}\text{C}$ on 2/11 12.13 $^{\circ}\text{C}$ on 2/12	N/A	6/16/26
Delta smelt larvae and juveniles	After onset of spawning, if JPF < 0 AND turbidity is ≥ 12 FNU in the south Delta	Not active Daily JPF: 1,294 cfs (as of 6/14) Avg turbidity in south Delta: 2.7 FNU (as of 5/28)	Turbidity in south Delta is low	6/16/26
Longfin smelt adults	If JPF < 0 and assessment indicates annual loss will exceed 5% of adult population abundance	Not active Daily JPF: 1,294 cfs (as of 6/14) Annual loss of adult LFS: 0	No WY26 salvage to date	6/8/26
Longfin smelt larvae and juveniles	If JPF < 0 and population model indicates need to reduce entrainment to avoid population decline	Not active Daily JPF: 1,294 cfs (as of 6/14)	No WY26 salvage to date, low potential entrainment this week.	6/16/2026

Species/run	Threshold	Current Status	Weekly Trend	Updated
End of Entrainment Management Season for smelts	Daily average water temperature at Clifton Court Forebay (CLC) $\geq 25^{\circ}\text{C}$ (77.0°F) for 3 consecutive days	Active, Triggered 6/16 CLC last three days (ending 6/15): 25.2°C 25.4°C 25.5°C	N/A	6/16/2026

¹ Based on combined releases and estimated survival across Coleman, Feather River, Nimbus, and Mokelumne hatcheries.

² No operational threshold for unclipped steelhead. Incidental Take Limit from NMFS 2024 Biological Opinion.

Table 3a-e: Relevant Water Year 2026 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	6/15/26	N/A
Winter-run Annual Loss (8.4.3)	July 1 - Jun. 30	In Effect – JPE was finalized on 1/8/26.	Natural-origin Winter-run Loss Threshold: 5,287.26 Hatchery-origin Winter-run Loss Threshold: 156.12 Battle Creek Loss threshold: 6.22	Confirmed Genetic WR Annual Loss = 45.43 Hatchery origin Winter-run Loss = 57.91 Battle Creek Winter-run Loss = 2.33	Salvage of natural- and hatchery-origin winter-run is unlikely in the next week based on seasonal migration timing and loss over the previous week.	6/15/26	No further salvage from Winter-run hatchery groups has occurred.

Action	Timeframe	Current Action Status	Threshold(s)	Current Relevant Data	Weekly Trend	Last Updated	Comments
Natural-origin Winter-run Early Season Weekly Loss Thresholds (8.2.1)	Nov. 1- Dec. 31	Not in Effect	Dec 1-Dec 31 = 231.64	N/A	N/A	1/5/26	N/A
Natural-origin Winter-run Weekly Loss (8.4.4)	Jan 1 – June 30	In Effect – JPE finalized on 1/8/26.	Week 15 through end of OMR Management (4/9-6/30): $0.0000 \times 0.5 \times 494.47 = 0.00$	7 day rolling sum on 6/14/26: 0	Salvage of natural winter-run is unlikely in the next week based on seasonal migration timing	6/15/26	N/A

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)	Natural-origin: Oct. – June 30 Hatchery-origin: Nov. 1 – June 30	Natural-origin: In effect Hatchery-origin: In effect	Yearling Releases: Group 1: 0.25% of 75,119 = 187.80 Group 2: 0.25% of 60,873 = 152.18 Group 3: 0.25% of 60,873 = 142.77 YOY Releases: Feather River Hatchery: Group 1: 0.25% of 2,034,278 = 5,085.70 Group 2: 0.25% of 488,217 = 1,220.54 Group 3: 0.25% of 511,803 = 1,279.51 Group 4: 0.25% of 290,859 = 727.15 Coleman Fish Hatchery: Group 1: 0.25% of 740,784 = 1,851.96 Group 2: 0.25% of 502,534 = 1,256.34	Confirmed Yearling loss: Group 1: 0 Group 2: 261.65 Group 3: 35.08 Confirmed YOY Loss: Group 1: 0 Group 2: 0 Group 3: 0 Group 4: 0 Group 5: 2.76 Group 6: 0	Salvage of YOY is possible, but salvage of yearling is unlikely.	6/15/26	N/A

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	Not Active. (Triggered on 12/23/25, in effect 12/25/25 – 1/7/26)	three-day Freeport (FPT) daily flow running avg $\geq$ 25,000 AND [three-day Freeport turbidity running avg $\geq$ 50 NTU OR Smelt Monitoring Team recommendation]	N/A	N/A	6/16/26	N/A
Adult Delta Smelt Entrainment Protection (“Turbidity Bridge Avoidance”) (8.3.2)	After First Flush or Dec. 20 until 3-day average temperature at Jersey Point (SJJ) or Rio Vista (RVB) exceeds 12 °C (53.6 °F)	Not Active	Occurs after First Flush 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)	N/A	N/A	6/16/26	N/A
Larval and Juvenile Delta smelt Entrainment Protection (8.4.1)	After Adult Delta smelt Entrainment Protection ends	Not Active	SLS/20mm Secchi depth for 12 south Delta stations $\leq$ 1m Rio Vista flows $>$ 55,000 cfs or Vernalis flows $>$ 8,000 cfs (temporary offramp); $<$ 40,000 cfs (Rio Vista) or $<$ 5,000 (Vernalis) action reinstated	SLS/20mm Secchi depth for 12 south Delta stations = 1.70 m (20mm 6) Rio Vista: 8,073 cfs Vernalis: 1,629 cfs	Flows and turbidity expected to continue remain low	6/16/2026	20mm 7 is on the water 6/8-6/10

Table 3c: Longfin Smelt

Action	Timeframe	Current Action Status	Threshold(s)	Current Relevant Data	Weekly Trend	Last Updated	Comments
Adult LFS Protection (8.3.3)	Dec. 1 - end of February	Not Active	Cum. salvage > (Age 1+ LFS Index/20) +1 = 125	N/A	N/A	3/23/26	N/A
Larval and Juvenile Longfin Smelt Entrainment Protection (8.4.2)	Jan. 1 – Jun. 30	Not Active	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 avg QWEST = 1,122 cfs 20mm 6 catch at: 809 = 0 812 = 0 Rio Vista: 8,073 cfs Vernalis: 1,829 cfs	QWest has peaked and has been declining since mid-April. Larval presence expected to remain stable or decrease at 809/812	6/16/2026	20mm 7 is on the water 6/8-6/10

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	Active; not triggered Flow Conditions: Not met Survey Conditions: Not Met (Expired on 6/14/26)	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 $\geq 14,296.76 + (-0.41) \cdot (90\text{-day average Vernalis flow})$	YOY WS detections= 1 on 3/16/26 90-Day Avg Vernalis flows = 2,251cfs 90-Day Avg Exports = 3,711cfs	YOY detections possible Flow/ Exports conditions unlikely to meet criterion	06/16/26	Flow Conditions not met WY 2026 salvage = 0

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	7-day avg QWEST = 2,800 cfs X2 = 55 km Daily avg turbidity: OSJ: 7.85 FNU HOL: 5.52 FNU OBI: 5.59 FNU Cumulative Loss of yearling SR surrogates: 224.05	N/A	2/23/2026	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).	<u>Smelt</u>: CLC days of exceedance of 25 °C: N/A <u>Salmonids</u>: Prisoners Point days of exceedance of 22.2 °C: 06/05, 06/06, 06/07, 06/08, 06/09, 06/10, 06/11, Mossdale days of exceedance of 22.2 °C: 06/14, 06/15	N/A	6/1/26	N/A
Spring Outflow (COA 8.12.1)	April 1 – May 31	In effect	Based on the San Joaquin Valley Water Year Type: 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 4 to 1	April Forecast: Critical year; exports are constrained to 1:1	N/A	4/20/26	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), [5] Unknown (information unconfirmed).

Monitoring survey	Region	Notes (as of 6/16/2026)	Status
SWP regular counts, CWT reading	Delta	Active	1
CVP regular counts, CWT reading	Delta	Active	1
Smelt Larval Survey	Delta	Not Active	4
LES	Delta	Not Active	4
20mm Survey	Delta	Active	1
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 Trawls	Delta	Active (CDFW)	1
Flow and WQ 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	Active	1
Deer Creek RST	Deer Creek	Active	1
Yuba River (Hallwood) RST	Yuba River	Active	1
Butte Creek Carcass Surveys	Butte Creek	Not Active	4
Butte Creek RST	Butte Creek	Active	1
Yolo Bypass Rotary Screw Trap	Yolo Bypass	Active	1

Monitoring survey	Region	Notes (as of 6/16/2026)	Status
Yolo Bypass Beach Seine	Yolo Bypass	Active	1
Yolo Bypass Fyke Trap	Yolo Bypass	Not Active	4
Redd dewatering and stranding surveys	Sacramento River	Active	1
Sacramento Carcass and Redd Surveys (fall-run Chinook Salmon)	Sacramento River	Active	1
Lower Sacramento RST	Sacramento River	Not Active	4
Feather River (upper DWR) RST	Sacramento River	Active	1
Feather River (lower CDFW) RST	Sacramento River	Not Active	4
Feather River Carcass Survey (fall-run Chinook Salmon)	Sacramento River	Active	1
Sonar, telemetry (sturgeon)	Feather River	Active	1
Egg mats (sturgeon)	Feather River	Not Active	4
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	Not Active	4
Stanislaus River Carcass Survey (steelhead)	San Joaquin River	Not Active	4
Tuolumne Carcass Survey	Tuolumne River	Not Active	4
Merced Carcass Survey	Merced River	Not Active	4
Tuolumne RST	Tuolumne River	Active	1
American River Carcass Survey	Sacramento River	Not Active	4

* Qualitative larval sampling efforts for both the CVP and SWP have concluded and have been removed from the list as of 10/7/25.