



— BUREAU OF —
RECLAMATION

Weekly Fish and Water Operations Outlook

3/3/2026 - 3/9/2026

Water Project Operational Intent for Week

Both projects are operating so their total combined Delta exports do not cause OMRI to be more negative than -5,000 cfs on a 14-day average basis. Per D-1641, X2 requirements and a maximum E/I ratio of 0.35 are effective in March. CVP is evaluating potential for storm flex under Action 5.

Biological Context

The DCC gates remain closed to protect migrating salmonids.

Forecasted Weather

Mostly dry weather with a gradual warming trend throughout the week. Chances of patchy fog through midweek and light showers in the foothills and mountains on Wednesday.

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	<ul style="list-style-type: none"> • Current Release: 300 cfs • Anticipated Range of Weekly Releases: 300 cfs 	<ul style="list-style-type: none"> • Spring-run Chinook Salmon juveniles are rearing and out-migrating • Fall-run Chinook Salmon eggs are hatching and juveniles emerging and out-migrating. • Adult O. mykiss/steelhead are spawning and eggs are incubating. • Adult Late fall-run Chinook Salmon are spawning and eggs are incubating • (Updated 01/12/2026)
Sacramento River	<ul style="list-style-type: none"> • Shasta Storage: 3.847 MAF • Current Release: 5,000 cfs • Anticipated Weekly Range of Releases: 4,000 cfs to 10,000 cfs 	<ul style="list-style-type: none"> • LAD juvenile spring-run Chinook salmon are emerging and migrating downstream • Most winter-run Chinook salmon have migrated downstream past RBDD. • Fall-run Chinook salmon are out-migrating in increasing numbers. • Late fall-run Chinook Salmon are migrating upstream. Some are preparing to spawn, while others are actively spawning. Early eggs are in the gravel. • (Updated 03/2/2026)
Feather River	<ul style="list-style-type: none"> • Oroville Storage: 2.956 MAF • Current Release: 10,000 cfs • Anticipated Weekly Range of Releases: 6,000 cfs to 10,000 cfs • Daily temperature maximum: 55° Fat Fish Hatchery 	<ul style="list-style-type: none"> • Fall-run Chinook Salmon spawning is complete. Juveniles emerging and migrating downstream. • Spring-run Chinook Salmon juveniles are migrating downstream • Adult O. mykiss are migrating upstream. • (Updated 03/2/2026)

Tributary/Division	Anticipated Weekly Ranges	Related Environmental and Fish Conditions
American River	<ul style="list-style-type: none"> • Folsom Storage: 660 TAF • Current Release: 2,850 cfs • Anticipated Weekly Range of Releases: 1,000 to 2,850 cfs 	<ul style="list-style-type: none"> • Fall-run Chinook Salmon spawning has ended. • Fry are emerging and beginning to migrate downstream. • (Updated 03/2/2026)
Stanislaus River	<ul style="list-style-type: none"> • New Melones Storage: 1.840 MAF • Current Release: 200 cfs • Anticipated Range of Weekly Releases: 200 cfs 	<ul style="list-style-type: none"> • Adult fall-run Chinook Salmon spawning has likely ended, carcass surveys are complete. • Eggs are incubating in the gravel. • Spring-run fry are emerging and moving downstream. • Fall-run fry are also likely moving downstream with the increases in flow. • (Updated 1/26/2026)
Delta	<ul style="list-style-type: none"> • Freeport: 35,000 cfs to 65,000 cfs • Vernalis: 5,000 cfs to 7,000 cfs • Delta Outflow index: 35,000 to 75,000 cfs • Combined Exports: 7,200 to 8,700 cfs • JPP: 4,200 cfs • CCF: 3,000 cfs to 4,500 cfs • Expected Daily OMR Index Values: - 3,500 cfs to - 5,000 cfs • Rio Vista Flows: 30,000 cfs to 65,000 cfs • DCC Gates: Closed • X2 at 56 km • Qwest daily: 9,900 cfs • Qwest 7-day (through 3/2): 8,700 cfs • Qwest Forecasted Range of 7-day: 6,000 cfs to 9,000 cfs • JPF: 7,000 cfs to 10,000 cfs • Tides: Transition from Spring to Neap; Full Moon on March 3. 	<ul style="list-style-type: none"> • LAD spring-run and winter-run Chinook salmon juveniles are being observed migrating and rearing by monitoring surveys. • 163,349 unmarked Delta smelt were released in fall 2025. A total of 40 adult and 30 juvenile Delta smelt have been observed in Suisun Marsh, the lower Sacramento River and the SDWSC. The most recent observations were of four adults and one juvenile in Suisun Marsh on 02/25/2026 and 03/02/2026. • A total of 273 sub-adult and adult Longfin Smelt have been observed in the Chipps Island Trawl for WY2026, with the last detection being on 02/27/2026. • SLS 5 (2/23-2/27) detected 4 larval Longfin Smelt in the lower San Joaquin River. SLS 4 (2/9-2/12) detected 1038 larval Longfin Smelt, primarily west of the Confluence. • (Updated 03/2/2026)

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 = 6	Occasional salvage possible	1/20/26
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 loss= 4 LSNFH loss = 0	Continued salvage at increased rate *LAD WR was salvaged but genetically identified as Spring-Run	3/2/26
Central Valley Steelhead	¹ Clipped = 3565 ² Unclipped = 5914	Hatchery Loss = 828 (13.55% of threshold) Natural-origin loss = 164 (3.10%)	Salvage of clipped and unclipped fish is likely to continue in the upcoming week.	03/2/26
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	Salvage is possible in the upcoming week.	03/02/26

Species/run	Threshold	Current Status	Weekly Trend	Updated
First Flush (onset of Entrainment Management Season)	Freeport flows \geq 25,000 cfs AND Freeport turbidity \geq 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 \geq 12 FNU in OMR corridor UNTIL Average water temperatures at Jersey Point or Rio Vista \geq 12°C (53.6°F) for 3 consecutive days	Not active Jersey Point temp: 12.05 °C on 2/10 12.09 °C on 2/11 12.13 °C on 2/12	Turbidity is low- moderate	2/23/26
Delta smelt larvae and juveniles	After onset of spawning, if JPF < 0 AND turbidity is \geq 12 FNU in the south Delta	Active, not triggered Daily JPF: 9,820cfs Avg turbidity in south Delta: (as of 2/11/26) 5.7 FNU	Turbidity in south Delta is low-moderate	3/3/26
Longfin smelt adults	If JPF < 0 and assessment indicates annual loss will exceed 5% of adult population abundance	Active, not triggered Daily JPF: 9,820 cfs Annual loss of adult LFS: 0	No WY26 salvage to date	3/3/26
Longfin smelt larvae and juveniles	If JPF < 0 and population model indicates need to reduce entrainment to avoid population decline	Active, not triggered Daily JPF: 9,820cfs	No WY26 salvage to date	3/3/2026

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

²No 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	3/2/26	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 = 28.64 Hatchery origin Winter-run Loss = 0 Battle Creek Winter-run Loss = 0	Salvage of natural winter-run is likely in the next week based on seasonal migration timing and loss over the previous week.	3/3/26	LAD WR were salvaged at Delta fish facilities last week but and 2 were confirmed as CHNWR (fish from 2/24/26, and 3/2/26). Still awaiting genetic result from 1 LAD WR from 3/2/26 salvage.

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 9 (2/26-3/4): 0.1280 x 0.5 x 5,287.26 = 338.38 Upcoming: Week 10 (3/5-3/11): 0.0977 x 0.5 x 5,287.26 = 258.28	7 day rolling sum on 3/2/26 (with salvage from 3/2/26): 19.92	Salvage of natural winter-run is likely in the next week based on seasonal migration timing and loss over the previous week	3/2/26	LAD WR were salvaged at Delta fish facilities and 2 were confirmed to be WR after genetical analysis. Still awaiting genetic result from 1 LAD WR from 3/2/26 salvage.
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: 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	Confirmed loss for Group 1: 0 Confirmed loss for Group 2: 261.65 Confirmed loss for Group 3: 35.08	Yearling natural spring-run salvage possible in next week	3/2/26	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 >= 25,000 AND [three-day Freeport turbidity running avg >=50 NTU OR Smelt Monitoring Team recommendation]	N/A	N/A	1/20/26	N/A
Adult Delta Smelt Entrainment Protection (“Turbidity Bridge Avoidance”) (8.3.2)	After First Flush or Dec. 20 until 3-day average temperatures at Jersey Point (SJJ) or Rio Vista (RVB) exceed 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	2/23/26	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	COA 8.4.1: Active, temporarily off-ramped by high flows at Vernalis and Rio Vista	SLS/20mm Secchi depth for 12 south Delta stations ≤ 1 m 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	SLS/20mm Secchi depth for 12 south Delta stations = 0.85 m (SLS 5) Rio Vista: 78,201 CFS Vernalis: 6,944 CFS	Expected to be high flow offramped this week	3/2/26	SLS 5 was on the water 2/23/2026 - 2/25/2026

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	COA 8.3.3: Not Active due to it being past the active time period.	Cum. salvage > (Age 1+ LFS Index/20) +1 = 125	Cum. Salvage = 0	No salvage expected	3/2/26	August - December Index = 2479.2
Larval and Juvenile Longfin Smelt Entrainment Protection (8.4.2)	Jan. 1 - Jun. 30	COA Active, temporarily off-ramped by high flows at Vernalis and Rio Vista Vernalis: 6,944 CFS	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 >55,000 cfs or Vernalis flows >8,000 cfs (temporary offramp); <40,000 cfs (Rio Vista) or <5,000 (Vernalis) reinstated	7-day avg QWEST = +8,593 cfs SLS 5 catch at: 809 = 4 812 = 0 Rio Vista: 78,201 CFS	QWest expected to decrease, high flow offramped	3/2/26	SLS 5 was on the water 2/23/26-2/25/26

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	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 $\geq 14,296.76 + (-0.41) * (90\text{-day average Vernalis flow})$	YOY WS detections= None in last 90 days 90-Day Avg Vernalis flows = 3,336cfs 90-Day Avg Exports = 6,085cfs	YOY detections possible Flow/ Exports conditions unlikely to meet criterion	3/03/26	Survey and 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	<ul style="list-style-type: none"> • 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 	<p>7-day avg QWEST = 2,800 cfs</p> <p>X2 = 55 km</p> <p>Daily avg turbidity: OSJ: 7.85 FNU HOL: 5.52 FNU OBI: 5.59 FNU</p> <p>Cumulative Loss of yearling SR surrogates: 224.05</p>	N/A	32/23/2026	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	Not in effect	<p>Smelt: Daily mean water temperature at Clifton Court Forebay (CLC) is > or equal to 25°C for 3 consecutive days</p> <p>Salmonids: Daily mean water temperature is > 22.2 C at Mossdale and Prisoners Point for 7 days (can be non-consecutive).</p>	N/A	N/A	N/A	N/A
Spring Outflow (COA 8.12.1)	April 1 – May 31	Not in effect	<p>Critical year: ratio of Vernalis flow to SWP and CVP combined exports shall be 1 to 1.</p> <p>Dry year: ratio of Vernalis flow to SWP and CVP combined exports shall be 2 to 1.</p> <p>Below Normal year: ratio of Vernalis flow to SWP and CVP combined exports shall be 3 to 1.</p> <p>Above Normal/Wet year: ratio of Vernalis flow to SWP and CVP combined exports shall be 4 to 1</p>	N/A	N/A	N/A	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 3/3/2026)	Status
SWP regular counts, CWT reading	Delta	Active	1
CVP regular counts, CWT reading	Delta	Active	1
Smelt Larval Survey	Delta	Active	1
LES	Delta	Not Active	4
20mm Survey	Delta	Not Active	4
Fall Mid-water Trawl	Delta	Not Active	4
Summer Towntnet 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 (20mm begins March 30)	1
EMP	Delta	Active	1
Mossdale Trawls	Delta	Active (USFWS)	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	Active	1
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
Yolo Bypass Beach Seine	Yolo Bypass	Active	1
Yolo Bypass Fyke Trap	Yolo Bypass	Active	1

Monitoring survey	Region	Notes (as of 3/3/2026)	Status
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	Active	1
Feather River Carcass Survey (fall-run Chinook Salmon)	Sacramento River	Active	1
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	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.