



— BUREAU OF —
RECLAMATION

Weekly Fish and Water Operations Outlook

10/28/2025 – 11/3/2025

Water Project Operational Intent for Week

Current Central Valley Project (CVP) and State Water Project (SWP) operations are primarily governed by D-1641 standards such as required minimum Delta Outflow, the Rock Slough daily maximum salinity standard (250 Chlorides) and the maximum allowable Export/Inflow ratio of 0.65.

Biological Context

Migrating LAD winter-run Chinook salmon catch at Knight's Landing and Sacramento seine sites exceed criteria triggering Delta Cross Channel gate closure actions, but the DCC gates remain open due to ongoing exceedances of the water quality standard at the Rock Slough Intake.

Forecasted Weather

Lingering showers and winds through Monday evening, then dry and seasonable weather for the remainder of the week.

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: 225 cfs | Spring-run Chinook Salmon eggs are incubating. Adult fall-run Chinook Salmon are spawning and their eggs are incubating. O. mykiss/steelhead are entering the creek and migrating upstream. (Updated 10/20/2025) |

| Tributary/Division | Anticipated Weekly Ranges | Related Environmental and Fish Conditions |
|--------------------|--|--|
| Sacramento River | Shasta Storage: 2.567 MAF Current Release: 7,200 cfs Anticipated Weekly Range of Releases: 6,000 cfs to 7,200 cfs by Saturday | <p>Peak emigration period for Winter-run Chinook Salmon fry past RBDD (1000's/day).</p> <p>Sacramento River juveniles, length-at-date field identified spring-run Chinook salmon are being caught in increasing numbers. Genetic tissue sampling being conducted to confirm run as these are likely winter Chinook til about mid-November (in most years)</p> <p>Spring-run Chinook Salmon adults have completed spawning and eggs in the gravel.</p> <p>About 25% of winter-run Chinook Salmon juveniles are in the gravel and 75% of juveniles have emerged and will be migrating downstream past RBDD.</p> <p>Fall-run Chinook Salmon adults are actively holding and spawning currently. Eggs are in the gravel. Peak spawning is currently ongoing and will continue for the next 2-3 weeks. Based on historical observations, fall-run Chinook Salmon yearlings are expected to be migrating downstream.</p> <p>Late fall-run Chinook Salmon are migrating upstream from ocean. (Updated 10/28/2025)</p> |
| Feather River | Oroville Storage: 1.845 MAF Current Release: 2,450 cfs Anticipated Weekly Range of Releases: 2,400 cfs to 2,495 cfs Daily temperature maximum: 51 +/- 4°F at Fish Hatchery | <p>Fall-run Chinook Salmon are currently holding and spawning.</p> <p>Spring-run Chinook Salmon are currently spawning.</p> <p>Green Sturgeon holding at the outlet and Shanghai Bend. (Updated 10/14/2025)</p> |
| American River | Folsom Storage: 425 TAF Current Release: 1,000 cfs Anticipated Weekly Range of Releases: 1,000 cfs | <p>Fall-run Chinook Salmon adults are spawning. (Updated 10/28/2025)</p> |

| Tributary/Division | Anticipated Weekly Ranges | Related Environmental and Fish Conditions |
|--------------------|--|--|
| Stanislaus River | New Melones Storage: 1.617 MAF Current Release: 250 cfs Anticipated Range of Weekly Releases: 250 cfs to 1,500 cfs (Fall Pulse Flow) | Adult fall-run Chinook Salmon are spawning. (Updated 10/28/2025) |
| Delta | Freeport: 11,500 cfs to 12,500 cfs Vernalis: 1,600 cfs to 2,000 cfs Delta Outflow index: 6,000 to 9,000 cfs Combined Exports: 4,200 to 6,500 cfs JPP: 4,200 cfs CCF: 0 cfs to 2,500 cfs Expected Daily OMR Index Values: -2,900 to -5,600 cfs Rio Vista Flows: 5,800 cfs to 6,300 cfs DCC Gates: Open X2 > 81 km Qwest daily: 3327 cfs Qwest 7-day: 2203 cfs <ul style="list-style-type: none"> • Tides: Transition from Neap to Spring; First Quarter Moon on October 29. | <ul style="list-style-type: none"> • Winter-run Chinook salmon juveniles are migrating into the Delta. • Delta smelt observed in the confluence and Suisun Marsh on 10/6, 10/9, and 10/17. • Juvenile Green Sturgeon observed in salvage between 08/14/25 – 09/30/25. • (Updated 10/28/2025) |

Table 2a-b: WY 2025 relevant Fish and Environmental Criteria and Status in 2024 Reclamation LTO Action Cumulative loss for the duration of 2024 Biological Opinion began upon signature of ROD, 12/19/2024.

Table 2a: WY 2025 Salmonid Current Loss and Delta Smelt Abiotic Conditions. 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 | Annual = 14 3-year rolling average = 5 | WY 2026 salvage = 0 | Occasional salvage possible | 10/27/25 |
| Natural winter-run Chinook Salmon (JPE= TBD) | Incidental Take Limit= TBD Annual thresholds 50%= TBD 75%= TBD 100%= TBD | WY 2026 Loss= 0 | Salvage is unlikely in the upcoming week. | 10/27/25 |

| Species/run | Threshold | Current Status | Weekly Trend | Updated |
|--|--|---|---|----------|
| DCC Gate Catch Index Closure | Knights Landing Catch Index OR Sacramento Catch Index ≥ 3 AND D-1641 Criteria are met | KLCI (5.2) and SCI (4) was most recently exceeded on 10/27/25. Exceedances also occurred on 10/22/25, 10/23/25 and 10/24/25. D-1641 criteria not met as of 10/27/25 (Rock Slough Chloride > 250 mg/L) | Catch at delta entry monitoring locations are expected to continue at elevated rates. | 10/28/25 |
| Natural Steelhead | 100% threshold = 3,000 | WY 2026 loss = 0 | Salvage is unlikely in the upcoming week. | 10/27/25 |
| Steelhead Weekly Loss Threshold | 7-day rolling sum of steelhead salvage exceeds loss of 120 fish | 7 day rolling sum as of 6/16/25 = 0 | Salvage is unlikely in the upcoming week. | 10/27/25 |
| Sacramento River Hatchery winter-run Chinook salmon | TBD | TBD | None released yet | 10/27/25 |
| Battle Creek Hatchery winter-run Chinook salmon | TBD | TBD | None released yet | 10/27/25 |
| Proposed Action Hatchery yearling spring-run Chinook salmon surrogates | TBD | TBD | None released yet | 10/27/25 |
| Delta Smelt | See Table 3b | See Table 3b | See Table 3b | 10/27/25 |
| Longfin Smelt | See Table 3c | See Table 3c | See Table 3c | 10/27/25 |

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 | Not 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 | 10/27/25 | N/A |
| Winter-run Annual Loss (8.4.3) | July 1 - Jun. 30 | In Effect | Natural-origin Winter-run Loss Threshold: TBD <ul style="list-style-type: none"> • Hatchery-origin Winter-run Loss Threshold: TBD • Battle Creek Loss threshold: TBD | Confirmed Genetic WR Annual Loss = 0 Hatchery origin Winter-run Loss = 0 Battle Creek Winter-run Loss = 0 | Unlikely to observe salvage of natural winter-run based on historical salvage. | 10/27/25 | N/A |
| 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 | 10/27/25 | Will be in effect from 11/1/25 |

| 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 | Not 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)] | N/A | N/A | 10/27/25 | N/A |
| 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: Not in effect | N/A | N/A | Yearling natural spring-run salvage possible in next week | 10/14/25 | No scheduled spring-run surrogate group releases |

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 | 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 | 10/14/25 | N/A |

| Action | Timeframe | Current Action Status | Threshold(s) | Current Relevant Data | Weekly Trend | Last Updated | Comments |
|---|---|-----------------------|---|-----------------------|--------------|--------------|----------|
| 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) | Not active | 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) <ul style="list-style-type: none"> OBI, OSJ, and HOL turbidity>12 FNU Vernalis flow >10,000 cfs (temporary offramp); <8,000 cfs (reinstated) | N/A | N/A | 10/14/25 | N/A |
| Larval and Juvenile Delta smelt Protection (8.4.1) | After Adult Delta smelt Entrainment Protection ends | Not active | SLS/20mm Secchi depth for 12 south delta stations <= 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 | N/A | N/A | 10/14/25 | N/A |

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 = 181 fish | N/A | N/A | 10/14/25 | N/A |
| Larval and Juvenile Longfin Smelt Entrainment Protection (8.4.2) | Jan. 1 – Jun. 30 | Not active | <ul style="list-style-type: none"> • 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 | N/A | N/A | 10/14/25 | 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 | Active; not triggered Flow Conditions: Not met Survey Conditions: Not Met | <ul style="list-style-type: none"> 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 = 872cfs 90-Day Avg Exports = 9,744cfs | YOY detections possible Flow/Exports conditions unlikely to meet criterion | 10/28/25 | 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 | N/A | N/A | N/A | 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 | 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). | N/A | N/A | N/A | N/A |
| 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 4 to 1 | 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 10/28/2025) | 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 | Not Active | 4 |
| Fall Mid-water Trawl | Delta | Active | 1 |
| 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 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 | Not Active | 4 |
| Deer Creek RST | Deer Creek | Not Active | 5 |
| Yuba River (Hallwood) RST | Yuba River | Active | 1 |
| Butte Creek Carcass Surveys | Butte Creek | Active | 1 |
| Butte Creek RST | Butte Creek | Active | 1 |

| Monitoring survey | Region | Notes (as of 10/28/2025) | Status |
|---|-------------------|---------------------------------|---------------|
| Yolo Bypass Rotary Screw Trap | Yolo Bypass | Not Active | 4 |
| Yolo Bypass Beach Seine | Yolo Bypass | Active | 1 |
| Yolo Bypass Fyke Trap | Yolo Bypass | Active | 1 |
| 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 | Active | 1 |
| Feather River (upper DWR) RST | Sacramento River | Not Active | 4 |
| 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 | 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 | Active | 1 |

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