



# Weekly Fish and Water Operations Outlook

6/10/2025 – 6/16/2025

## 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

Warm and dry conditions with above normal temperatures to start the week. As ridging breaks down during the middle of the week, cooler temperatures with breezy onshore flow are expected.

## 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        | <ul style="list-style-type: none"> <li>• Current Release: 150 cfs</li> <li>• Anticipated Weekly Range of Releases: 150 cfs to 500 cfs</li> </ul>  | <ul style="list-style-type: none"> <li>• Adult spring-run Chinook Salmon are migrating to the creek and holding.</li> <li>• Spring, fall, and late fall-run Chinook Salmon fry are rearing and emigrating.</li> <li>• <i>O. mykiss</i>/steelhead are rearing and emigrating.</li> </ul> <p>(Updated 5/13/2025)</p>   |
| Sacramento River   | <ul style="list-style-type: none"> <li>• Shasta Storage: 4.096 MAF</li> <li>• Current Release: 9,000 cfs</li> <li>• Anticipated Weekly Range of Releases: 9,000 cfs to 10,000 cfs.</li> </ul> | <ul style="list-style-type: none"> <li>• Spring-run Chinook adults are migrating upstream and holding.</li> <li>• Winter-run Chinook adults are beginning to spawn and have been holding in the system some months now.</li> <li>• Late fall-run Chinook fry are rearing and emigrating downstream.</li> <li>• 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.</li> <li>• <i>O. mykiss</i>/steelhead eggs incubating and hatching and fry are rearing and emigrating.</li> <li>• White sturgeon are currently spawning and larvae are moving downstream.</li> <li>• Larval Green Sturgeon are hatching (as observed by USFWS) and redistributing from spawning and incubation areas in low numbers</li> </ul> <p>(Updated 6/9/2025)</p> |

| Tributary/Division | Anticipated Weekly Ranges   | Related Environmental and Fish Conditions  |
|--------------------|---|--|
| Feather River      | <ul style="list-style-type: none"> <li>• Oroville Storage: 3.406 MAF</li> <li>• Current Release: 3,500 cfs</li> <li>• Anticipated Weekly Range of Releases: 2,800 cfs to 4,500 cfs</li> <li>• Daily temperature maximum: 56 +/- 4 degrees F at Fish Hatchery</li> </ul> | <ul style="list-style-type: none"> <li>• Spring-run and fall-run Chinook Salmon juveniles are migrating downstream and based on seasonal timing most are anticipated to be out of the system.</li> <li>• Spring-run Chinook Salmon adults are migrating upstream and holding.</li> <li>• <i>O. mykiss</i> are emerging and migrating downstream.</li> <li>• Sturgeon have been detected in multiple locations throughout the river. White and Green Sturgeon are currently in spawning season.</li> </ul> <p>(Updated 6/10/2025)</p> |
| American River     | <ul style="list-style-type: none"> <li>• Folsom Storage: 905 TAF</li> <li>• Current Release: 2,500 cfs</li> <li>• Anticipated Weekly Range of Releases: 2,500 cfs</li> </ul>  | <ul style="list-style-type: none"> <li>• Fall-run Chinook Salmon Fry are migrating downstream in low numbers. Most have already exited the system.</li> </ul> <p>(Updated 6/2/2025)</p>  |
| Stanislaus River   | <ul style="list-style-type: none"> <li>• New Melones Storage: 1.885 MAF</li> <li>• Current Release: 1,700 cfs</li> <li>• Anticipated Range of Weekly Releases: 700 cfs to 1,700 cfs</li> </ul>  | <ul style="list-style-type: none"> <li>• Juvenile and adult <i>O. mykiss</i> are present.</li> <li>• <i>O. mykiss</i> are spawning and fry are emerging</li> <li>• Fall-run Chinook fry are migrating downstream.</li> </ul> <p>(Updated 6/2/2025)</p>   |

| Tributary/Division | Anticipated Weekly Ranges   | Related Environmental and Fish Conditions  |
|--------------------|---|--|
| Delta              | <ul style="list-style-type: none"> <li>• Freeport: 12,000 to 14,000 cfs</li> <li>• Vernalis: 1,400 to 2,200 cfs</li> <li>• Delta Outflow index: 7,100 to 7,900 cfs</li> <li>• Combined Exports: 4,800 to 6,500 cfs</li> <li>• JPP: 2,700 to 3,200 cfs</li> <li>• CCF: 2,100 cfs to 3,300 cfs</li> <li>• Expected Daily OMR Index Values: -4,600 to -5,100 cfs</li> <li>• DCC Gates: Closed Monday through Thursday. Open Friday through Sunday</li> <li>• X2 = 79 km</li> <li>• Tides: Transition from Spring to Neap; Full Moon on June 11.</li> </ul> | <ul style="list-style-type: none"> <li>• YOY Chinook Salmon are migrating through the Delta and exiting the system.</li> <li>• Adult Delta smelt were last detected by EDSM on 3/17/25 in the SDWSC. 20-mm survey has detected three larval Delta smelt in the SDWSC and Central and South Delta. The most recent detections were on 4/14/25.</li> <li>• 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.</li> <li>• Cumulative adult Delta smelt salvage is 17. One larval Delta smelt was detected in larval sampling at TFCF on 4/16/25.</li> <li>• Larval white sturgeon have been detected in the Sacramento River and Miner Slough.</li> <li>• 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.</li> <li>• Juvenile longfin smelt have been detected in South and Central San Francisco Bay, San Pablo Bay, Chipps Island, Suisun Marsh, and Suisun Bay.</li> <li>• Adult longfin smelt were last detected May 7 at Chipps Island.</li> <li>• Adult, juvenile, and larval LFS have been detected in salvage. Cumulative adult LFS salvage = 8 and cumulative juvenile LFS salvage = 204.</li> </ul> <p>(Updated 6/9/2025)</p> |

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<br><br>Annual thresholds<br>50%= 277 fish<br>75%= 415 fish<br>100%= 554 fish | Loss= 28.82 (5.2% of threshold)<br><br>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 = 600 (20% of threshold) as of 6/02/25                                     | Salvage possible at reduced rates         | 6/2/25    |
| Steelhead Weekly Loss Threshold  | 7-day rolling sum of steelhead salvage exceeds loss of 120 fish   | No exceedances – 7 day rolling sum as of 6/02/25 = 2.72                                 | Salvage possible at reduced rates         | 6/2/25    |
| Sacramento River Hatchery winter-run Chinook salmon (JPE= 135,342)     | Annual thresholds<br>50%= 81 fish<br>75%= 122 fish<br>100%= 162 fish                                    | Loss = 216.58 (133%)<br>50%= exceeded 3/18<br>75%= exceeded 3/19<br>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)<br><br>-Hatchery-origin Winter-run Loss Threshold: 0.12% of JPE (162.41)<br><br>-Battle Creek Loss threshold: 0.12% of JPE (3.44) | Confirmed Genetic WR Annual Loss = 28.82<br><br>Hatchery origin Winter-run Loss = 216.58<br><br>Battle Creek Winter-run Loss = 0 | Unlikely to observe salvage of natural or hatchery - origin winter-run based on historical salvage. | 6/9/25       | 50%, 75%, and 100% of the LSNFH loss threshold was hit on 3/18/25, 3/19/25, and 3/22/25 respectively.<br><br>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:<br>[Annual Loss Threshold (based on JPE surrogate) x 50% of Annual Loss Threshold x Winter-run in Delta (based on Column E)] | 4/2/25-6/30/25 Threshold: 0 | Based on salvage thru 6/1/25 7-day LAD loss: 0.00<br><br>Total loss of 7 day rolling sum (includes genetically confirmed): 0 | 6/9/25       | 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) | Natural-origin: Oct. – June 30<br><br>Hatchery-origin: Nov. 1 – June 30 | Natural-origin: In effect<br><br>Hatchery-origin: In effect | Yearling spring run surrogates:<br>Group 1: 1,747.23 (0.25% of 698,892 fish released)<br>Group 2: 193.39 (0.25% of 77,355 fish released)<br>Group 3: 186.10 (0.25% of 74,725)<br>YOY spring run surrogates:<br>Group 1: 1,191.85 (0.25% of 476,741)<br>Group 2: 1,189.58 (0.25% of 475,831)<br>Group 3: 1,260.76 (0.25% of 504,304)<br>Group 4: 1,737.93 (0.25% of 695,170)<br>Group 5: 940.31 (0.25% of 376,122)<br>Group 6: 920.22 (0.25% of 368,085) | Yearling spring-run Surrogates:<br>Current Loss for Group #1 through 5/18/25: 1,050.61 (60.13% of the loss threshold)<br>Current Loss for Group #2 through 5/18/25: 72.52 (37.50% of the loss threshold)<br>Current Loss for Group #3 through 5/18/25: 43.33 (23.28% of the loss threshold)<br>YOY Spring-run Surrogates:<br>Current loss for FR YOY spring-run surrogate Group 1: 16.56 (1.39 % of the loss threshold)<br>Current loss for FR YOY spring-run surrogate Group 2: 110.14 (9.26 % of the loss threshold)<br>Current loss FR YOY spring-run surrogate Group 3: 0<br>Current loss CNFH YOY spring-run surrogate Group 4: 0<br>Current loss FR YOY spring-run surrogate Group 5: 0<br>Current loss FR YOY spring-run surrogate Group 6: 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<br><br>Action triggered on Dec. 16, implemented from Dec. 19 through Jan 1, 2025 | - 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]  | FPT 3-day avg.<br><br>Flow = Not relevant<br><br>Turbidity = 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) | Not active; offramped as 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)<br>-OBI, OSJ, and HOL turbidity > 12 FNU<br><br>-Vernalis flow > 10,000 cfs (temporary offramp); < 8,000 cfs (reinstated) | OSJ Turbidity = Not relevant<br>HOL Turbidity = Not relevant<br>OBI Turbidity = Not relevant<br>3-d SJJ temp = Not relevant<br>3-d RVB temp = Not relevant<br><br>Vernalis Flow = 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 $\leq 1\text{m}$<br><br>-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 | Secchi depth = 141 cm (20-mm Survey 6)<br><br>Rio Vista flows = 6,564 cfs<br><br>Vernalis flows = 2,025 cfs | N/A          | 6/9/25       | 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 $> (\text{Age } 1 + \text{LFS Index}/20) + 1 = 181$ fish | Cum LFS salvage greater than 60mm = Not relevant | 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.<br><br>Triggered on 1/19 and 1/28.<br>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<br><br>-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 average QWEST = -839 cfs<br><br>Larval/juvenile (>20mm) 809 + 812 catch (20-mm 6) = 0<br><br>Cumulative juvenile (>20mm) salvage = 204<br><br>Rio Vista flows = 6,564 cfs<br><br>Vernalis flows = 2,025 cfs | N/A          | 6/9/25       | 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<br><br>Flow Conditions: Not met<br><br>Survey Conditions: Met | -YOY WS detected in one of the listed north or central Delta survey stations in the last 90 days<br><br>- Mean total exports for the last 90 days $\geq 14,296.76 + (-0.41) \times (90\text{-day average Vernalis flow})$ | YOY WS detections= 20-mm station 707 on 4/3/25<br>90-Day Avg Vernalis flows = 2,515 cfs<br>90-Day Avg Exports = 4,244 cfs | More YOY detections possible<br>Flow/Exports conditions unlikely to meet criterion | 6/9/25       | Survey Conditions met until 7/2/2025<br><br>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<br>-QWEST is > +1,500 cfs<br>-X2 is < 81 km<br>- Daily average turbidity at OSJ, HOL, and OBI are < 12 FNU<br>-Higher level of outflow available for diversion due to storm flows<br>-Measurable amount of precipitation has occurred<br>-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)<br>-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<br>No COA's are controlling operations | 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             | <p>Smelt:</p> <p>-Daily mean water temperature at Clifton Court Forebay (CLC) is &gt; or equal to 25°C for 3 consecutive days</p> <p>Salmonids:</p> <p>-Daily mean water temperature is &gt; 22.2 C at Mossdale and Prisoners Point for 7 days (can be non-consecutive).</p> | <p>Smelt: CLC temperatures (°C) 6/6-6/9: 24.1, 24.2, 23.7</p> <p>Salmonids: Prisoners Point days of exceedance of 22.2 C: 6/1, 6/2, 6/3, 6/4, 6/5</p> <p>Mossdale days of exceedance of 22.2 C: None</p> | OMR Management will likely not end this upcoming week | 6/9/2025     | N/A      |

| 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.<br>Dry year: ratio of Vernalis flow to SWP and CVP combined exports shall be 2 to 1.<br>Below Normal year: ratio of Vernalis flow to SWP and CVP combined exports shall be 3 to 1.<br>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 6/9/2025) | Status |
|---------------------------------|--------|------------------------|--------|
| SWP regular counts, CWT reading | Delta  | Active                 | 1      |
| SWP larval sampling             | Delta  | Inactive since 5/30    | 4      |
| CVP regular counts, CWT reading | Delta  | Active                 | 1      |
| CVP larval sampling             | Delta  | Inactive since 5/30    | 4      |

| <b>Monitoring survey</b>  | <b>Region</b>    | <b>Notes (as of 6/9/2025)</b> | <b>Status</b> |
|---|------------------|-------------------------------|---------------|
| 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  | 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       | Active                        | 1             |
| 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             |
| Feather River (lower CDFW) RST                                  | Sacramento River | Not Active                    | 4             |



| Monitoring survey                                      | Region            | Notes (as of 6/9/2025) | Status |
|--|-------------------|------------------------|--------|
| 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)