## PRELIMINARY DATA: Assessment for Delta Operations on ESA and CESA-listed Osmerids

Last updated: *November 18, 2025*

### Executive Summary

Section 3.13.3.4.1 of the Proposed Action and Section 8.1.4. of the Incidental Take Permit provide that during Old and Middle River (OMR) Management, the California Department of Water Resources, in coordination with Reclamation, shall provide State Water Project (SWP) and Central Valley Project (CVP) operational outlooks and assessments on a weekly basis to Water Operations Management Team (WOMT).

- OMR Season has not yet begun for Delta Smelt but First Flush could occur starting Dec 1
- Freeport flows and turbidity do not indicate First Flush
- No Delta Smelt salvage has been observed this water year

### Operational and Regulatory Conditions

- See current Weekly Fish and Water Operations Outlook document.
- Additional information also available on the SacPAS SMT page.

### Environmental Conditions

#### Weather Forecasts

- **Stockton, CA**:
  - Wednesday Night: Showers likely, mainly after 4am. Increasing clouds, with a low around 50. Light southeast wind. Chance of precipitation is 60%. New precipitation amounts of less than a tenth of an inch possible.
  - Thursday: Showers likely, mainly before 10am. Mostly cloudy, with a high near 56. South southeast wind around 5 mph. Chance of precipitation is 60%.
- **Antioch, CA**:
  - Wednesday Night: Rain likely, mainly after 4am. Mostly cloudy, with a low around 53. South southwest wind 5 to 7 mph. Chance of precipitation is 60%. New precipitation amounts of less than a tenth of an inch possible.
  - Thursday: Rain likely, mainly before 10am. Mostly cloudy, with a high near 54. South southeast wind 9 to 11 mph. Chance of precipitation is 70%. New precipitation amounts of less than a tenth of an inch possible.

- Weather forecasts for Stockton, CA and Antioch, CA as of November 18, 2025.

## Delta Smelt

### Biological

- **Delta Smelt Life Stages:** Juvenile, Adult
- **Abundance estimate:** 3371 (95% CL: 506 to 11,786) as of the week of November 10–14, 2025
- **Releases:** A total of 67,583 hatchery Delta Smelt have been released for WY 2026. The most recent releases of 67,583 fish occurred in Belden's Landing boat ramp in Suisun Marsh on Nov 05, 2025 to Nov 04, 2025.
- **Delta Smelt count:** 14 adult Delta Smelt and 11 juvenile Delta smelt have been detected this water year. See Table 1 for recent detections, Figure 1 for spatial distribution, and Figure 2 for temporal distribution.
- **Delta Smelt salvage:** 0 Delta Smelt have been salvaged, and the cumulative seasonal salvage is 0.

### Notes

- Since there are few recent detections of Delta Smelt, the Smelt Monitoring Team's capacity to estimate where they are within the Delta is limited.
- See SacPAS SMT Page for additional details on releases and detection in surveys and salvage.
- Historical salvage trends can be found at: SacPAS Salvage Timing

Table 1: Delta Smelt Detections in the last 2 weeks. Fork Length > 58mm = Adult, Fork Length 20-58mm = Juvenile, Fork Length < 20mm = Larva.

| Survey | Date | Region | Stratum | Life Stage | Catch |
|---|---|---|---|---|---|
| edsm | 2025-11-06 | West | Suisun Marsh | Adult | 9 |
| edsm | 2025-11-06 | West | Suisun Marsh | Juvenile | 10 |
| edsm | 2025-11-10 | West | Suisun Marsh | Adult | 4 |
| edsm | 2025-11-10 | West | Suisun Marsh | Juvenile | 1 |
| edsm | 2025-11-17 | West | Suisun Marsh | Adult | 1 |

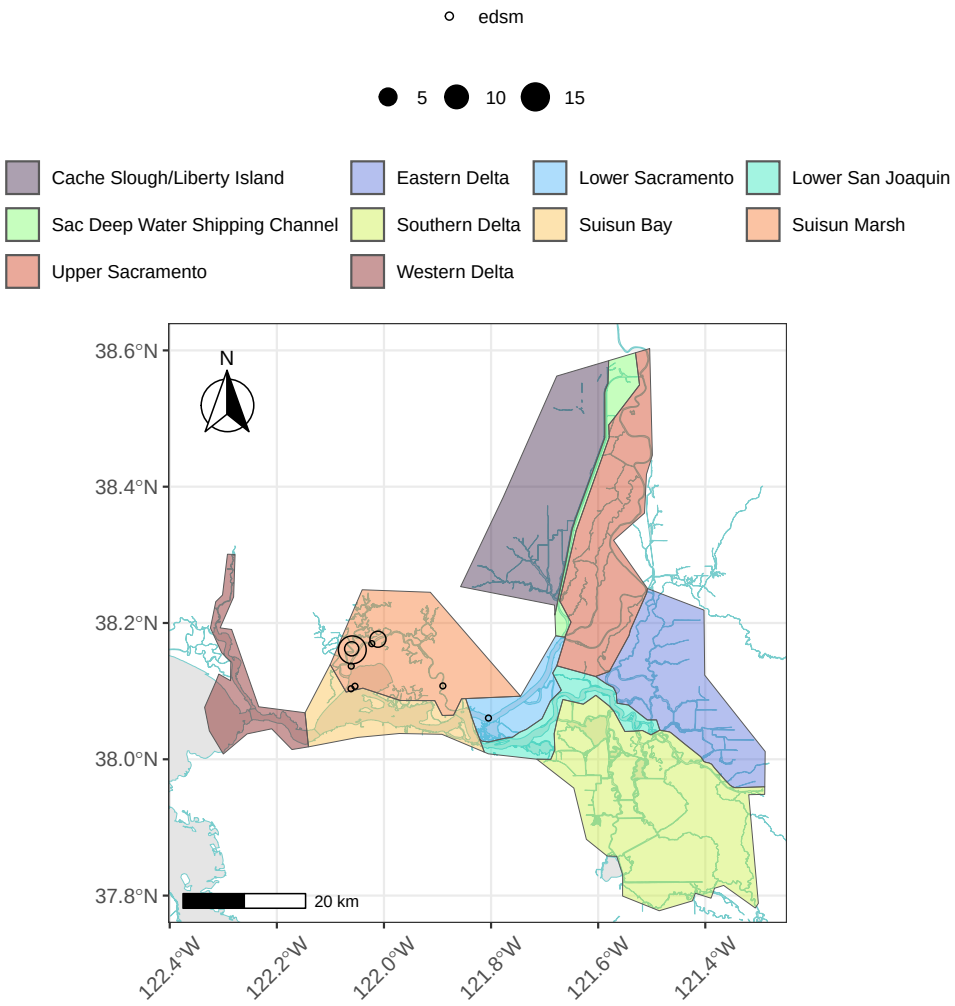



Figure 1: Delta Smelt Distribution for WY 2026

Table 2: Delta Smelt Water Year Totals by Life Stage

| Survey | Region | Life Stage | Total |
|---|---|---|---|
| edsm | West | Adult | 14 |
| edsm | West | Juvenile | 11 |

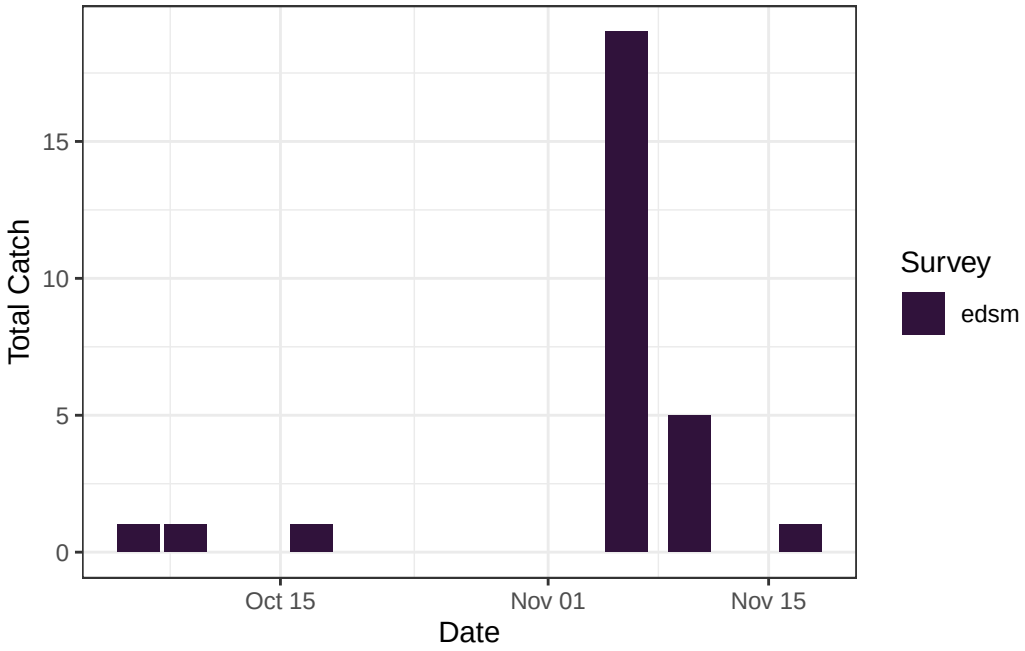


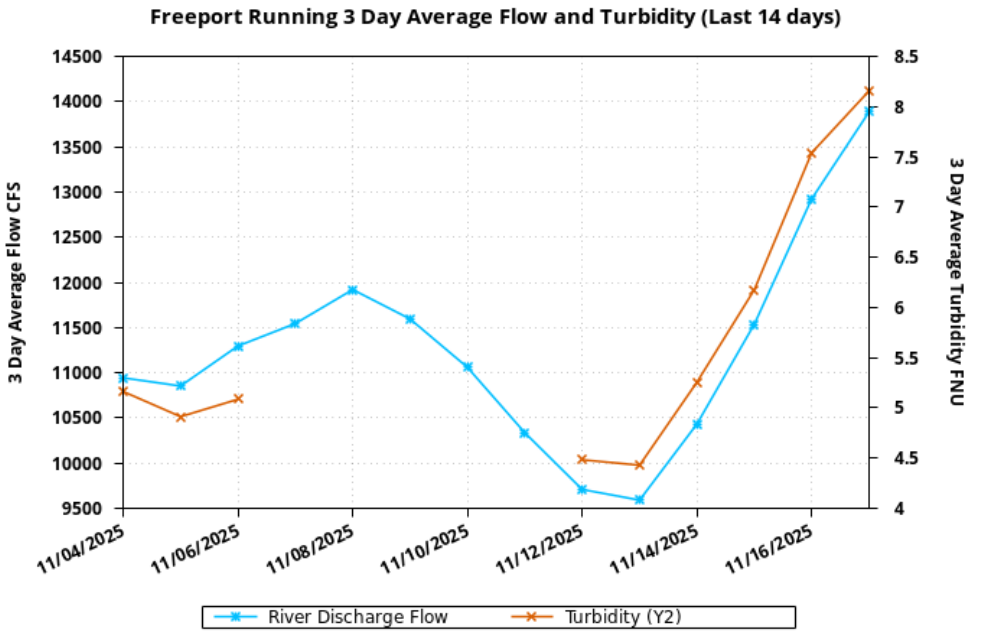

Figure 2: Time Series of Delta Smelt Catch, WY 2026

### Environmental

### First Flush

**Threshold**: 3-day avg FPT flow  25,000 cfs and 3-day avg FPT turbidity  50 FNU

- **FPT Flow (3-day average)**: 13886 cfs as of Nov 17, 2025
- **FPT Turbidity (3-day average)**: 8.16 FNU as of Nov 17, 2025




### Adult Delta Smelt Entrainment Action

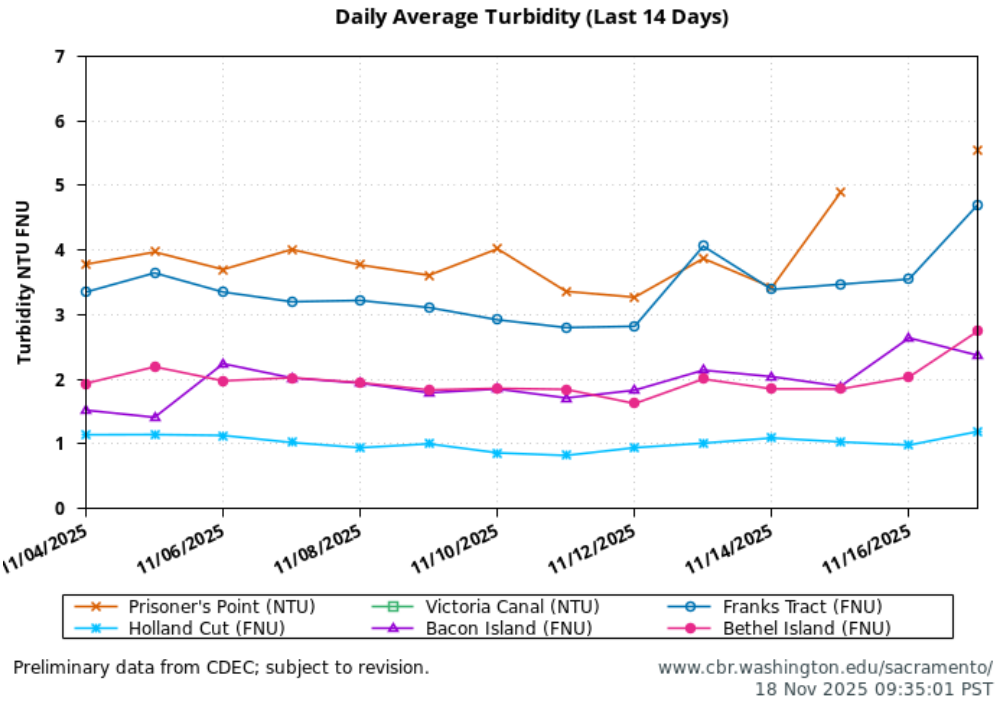
*Add JPF later*

**Threshold**: Turbidity  12 FNU at OBI, HOL and OSJ

- **OBI Turbidity**: 1.89, 2.64, 2.37 FNU as of Nov 17, 2025
- **HOL Turbidity**: 1.03, 0.98, 1.19 FNU as of Nov 17, 2025
- **OSJ Turbidity**: 3.47, 3.55, 4.7 FNU as of Nov 17, 2025

**Offramp Adult/Onramp Larval and Juvenile Protections** when RVB or SJJ $>$ 12°C

- **RVB temperature (3-day average)**: 15.67°C as of Nov 17, 2025
- **SJJ temperature (in the future)**:




- See Bay-Delta Live for recent Delta-wide turbidity conditions.
- Let's link to wind plot on the other SacPAS SMT page. Wind plot

### Larval/Juvenile Delta Smelt Entrainment Action

*Currently Secchi depth; add JPF, South Delta turbidity and PTM later*

- Not relevant

### Longfin Smelt

### Biological

- **Longfin Smelt Life Stages:** Juvenile, Adult
- **Longfin Smelt count:** 1 adult Longfin Smelt and 12 juvenile Longfin smelt have been detected this water year. See Table 3 for recent detections, Figure 3 for spatial distribution, and Figure 4 for temporal distribution.
- **Longfin Smelt salvage:** 0 Longfin Smelt have been salvaged, and the cumulative seasonal salvage is 0.
- Include plot of cumulative longfin salvage? Salvage plot code

Table 3: Longfin Smelt Detections in the last 2 weeks. Fork Length > 84mm = Adult, Fork Length 20-84mm = Juvenile, Fork Length < 20mm = Larva.

| Survey | Date | Region | Stratum | Life Stage | Catch |
|---|---|---|---|---|---|
| edsm | 2025-11-06 | West | Suisun Marsh | Juvenile | 1 |
| edsm | 2025-11-13 | West | Suisun Marsh | Juvenile | 5 |
| edsm | 2025-11-17 | West | Suisun Marsh | Adult | 1 |
| edsm | 2025-11-17 | West | Suisun Marsh | Juvenile | 6 |

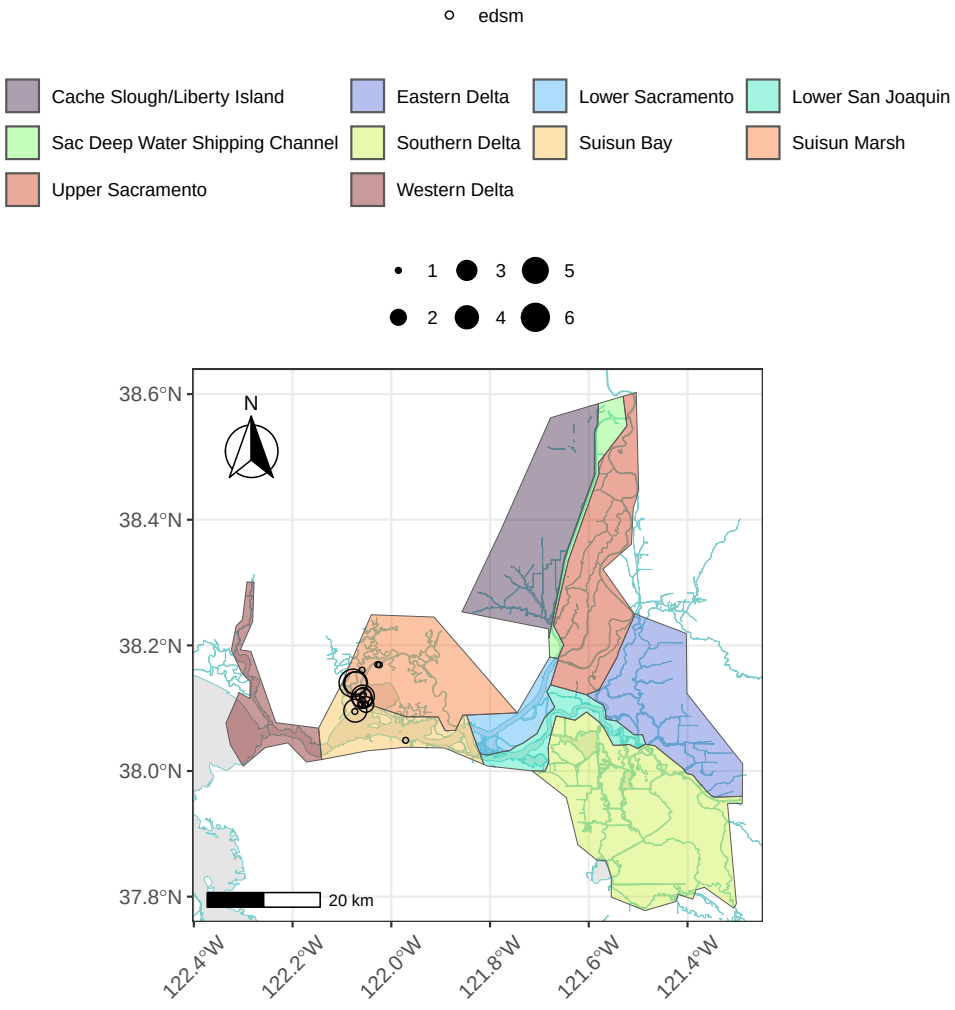



Figure 3: Longfin Smelt Distribution for WY 2026

Table 4: Longfin Smelt Water Year Totals by Life Stage

| Survey | Region | Life Stage | Total |
|---|---|---|---|
| edsm | West | Adult | 1 |
| edsm | West | Juvenile | 12 |

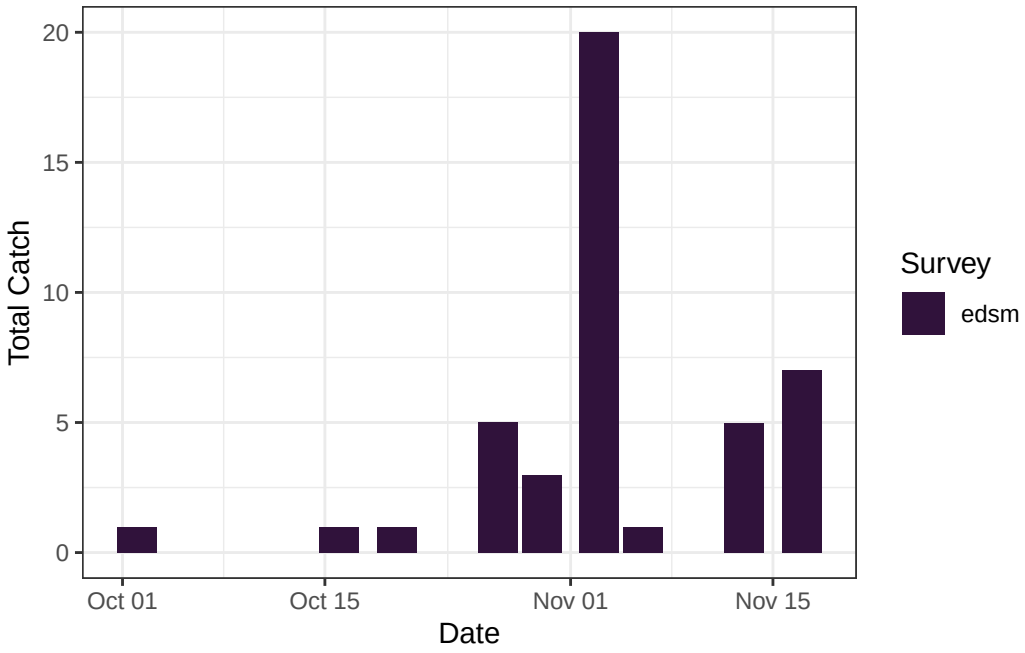



Figure 4: Time Series of Longfin Smelt Catch, WY 2026

### Environmental

### Adult Longfin Smelt Entrainment

- Jersey Point Flow:
  - Threshold: JPF $< 0$ cfs
  - Reclamation and DWR would compute JPF based on San Joaquin River Inflow at Vernalis, Cosumnes River Inflow, Mokelumne River Inflow, Calaveras River Inflow, Flow from Sacramento River through DCC, Flow from Sacramento River through Georgiana Slough, 65% of in-Delta precipitation, -65% of in-Delta diversions, and -Export Pumping at (Banks + Jones).
- Longfin Smelt salvage of age 1+ Longfin Smelt:

  - Threshold for OMR Season Start: 5% FMWT Index + 1
  - Threshold for Real-time: 5% Adult population abundance

### Larval/Juvenile Longfin Smelt Entrainment

- Jersey Point Flow:
  - Threshold: JPF<0 cfs
- Population model demonstrates need to reduce entrainment to avoid population decline

### End of Smelt OMR Management

- Not relevant

### References