

Summary of CVP and SWP delta operations on salmonids (*as of November 07, 2025*)

BDO Science Division, *Data is preliminary and subject to change*

Executive Summary

DCC gates are currently closed and is the controlling factor. Gates will continue to operate in accordance to Table 3-6 in the Proposed Action.

Winter-run

Winter-run catch is high at delta entry monitoring locations. No loss has yet to occur at export facilities.

Central Valley Steelhead

Central Valley Steelhead catch is low and no loss has yet to occur at export facilities.

Delta Hydrodynamics

Operational and Regulatory Conditions

DCC gates are the current controlling factor. See most recent weekly outlook for more information.

Current Conditions

Current inflow at Freeport in the Sacramento River and Vernalis in the San Joaquin River is xx and xx. Most recent 5-day and 10-day OMRI measurements were xx and xx respectively, and most recent export data were xx for Jones Pumping Plant and xx for Henry O. Banks Pumping Plant.

Zone of Influence

Current conditions at Freeport and Vernalis indicate that delta hydrology falls within the ‘lolo’ category (see appendix for hydrology bin definitions). This category is characterized by significant sensitivity in the zone of influence to changes in OMRI, where the zone of influence expands more greatly than wetter hydrologies as OMRI becomes more negative.

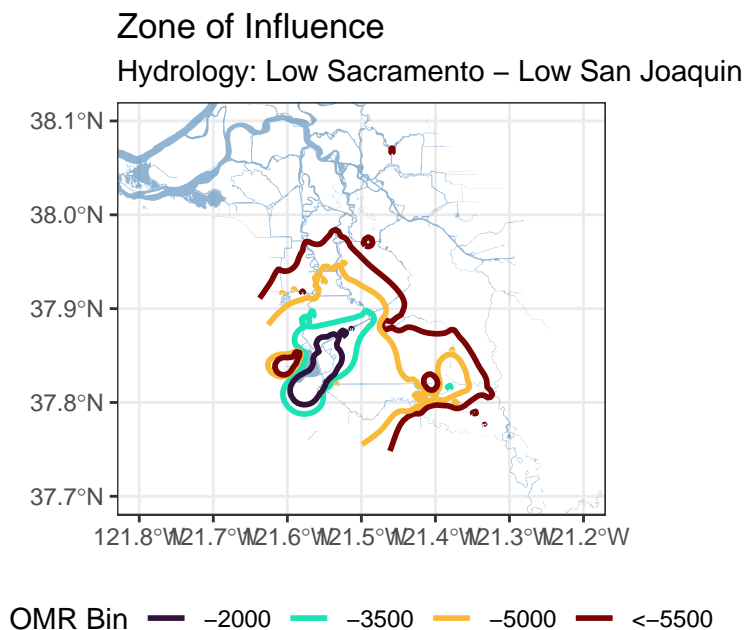


Figure 1: Modeled Zone of Influence at different OMRI scenarios based on current inflow hydrology from the Sacramento River and San Joaquin River

Natural Winter-run Chinook

Current Status

Give update on migration, salvage, monitoring, and STARs patterns.

Historically, as of Nov 06, 18.5% of length-at-date (LAD) winter-run have entered the delta based on Knights Landing RST catch, 0.9% have exited the delta based on Chipps Island Trawl Catch, and 0.0% of DNA confirmed winter-run have been salvaged.

Table 1: Average Percent of annual emigrating population for unclipped LAD winter-run captured at the following locations and LAD and DNA confirmed winter-run salvaged at SWP and CVP Delta facilities for the past 10 years.

Species	Red Bluff Diversion Dam	Tisdale RST	Knights Landing RST	Sac Trawl (Sher- wood)	Chipp's Island Trawl	Salvage
Chinook, LAD Winter-run, Unclipped	80.8%	18.3%	18.5%	7.6%	0.9%	0.0%
Chinook, DNA Winter-run, Unclipped (Water Year)						0.0%

Annual Loss

Cumulative loss as of x.date is xx and is xx% of thresholds.

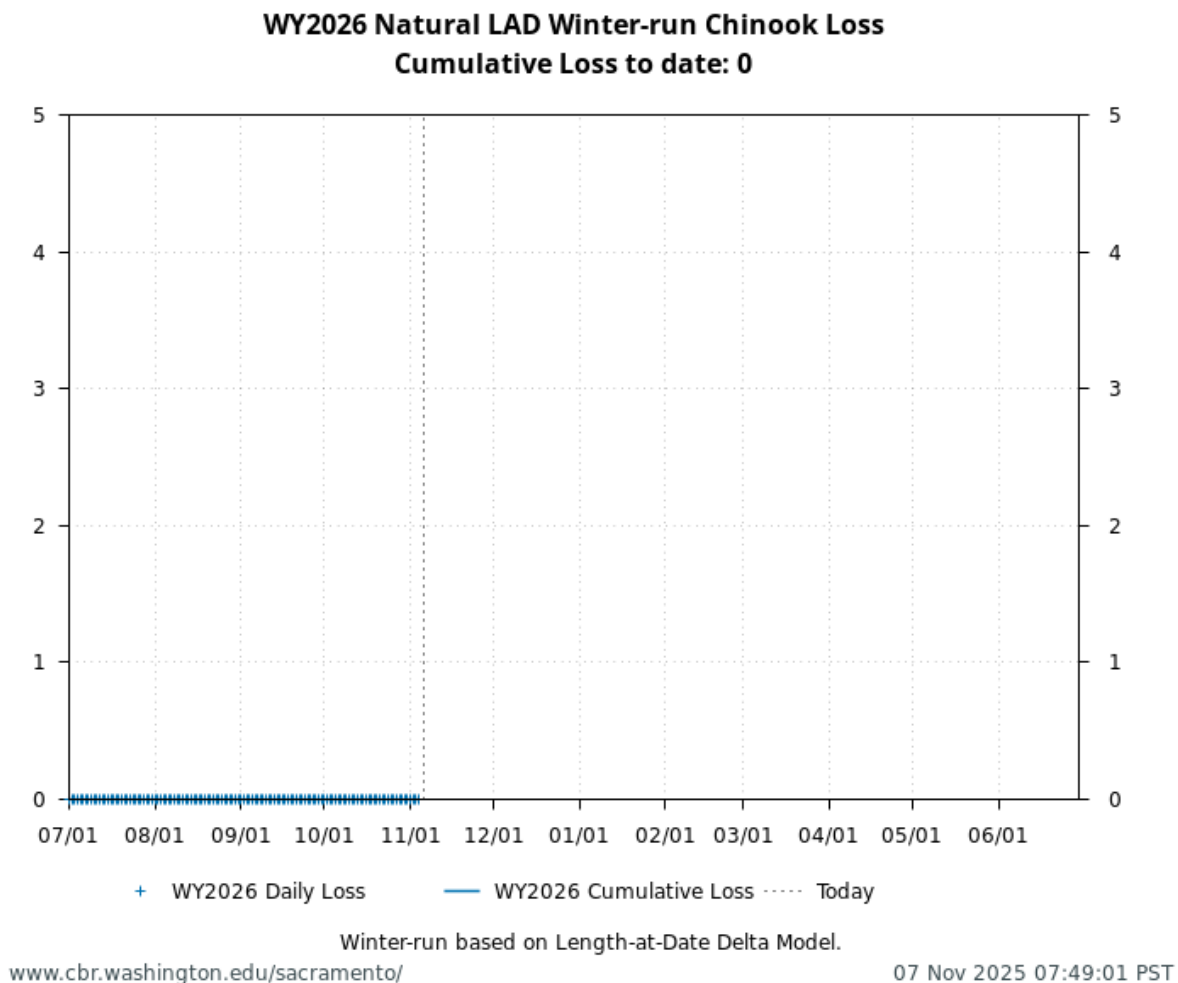


Figure 2: Cumulative loss of natural-origin winter-run for WY 2026. Cumulative loss is based on genetically confirmed winter-run captured in salvage or length-at-date winter-run in which genetic confirmation was unable to be obtained

STARs

The Delta STARs Model is an individual-based simulation model that predicts survival, travel time, and routing of juvenile salmon migrating through the Sacramento–San Joaquin River Delta.

Overall Survival: Median survival of daily cohorts for all routes combined

Delta STARS Model -

Predicted Natural Winter-run Chinook Daily Cohorts Passage, Knights Landing to Chipps Island

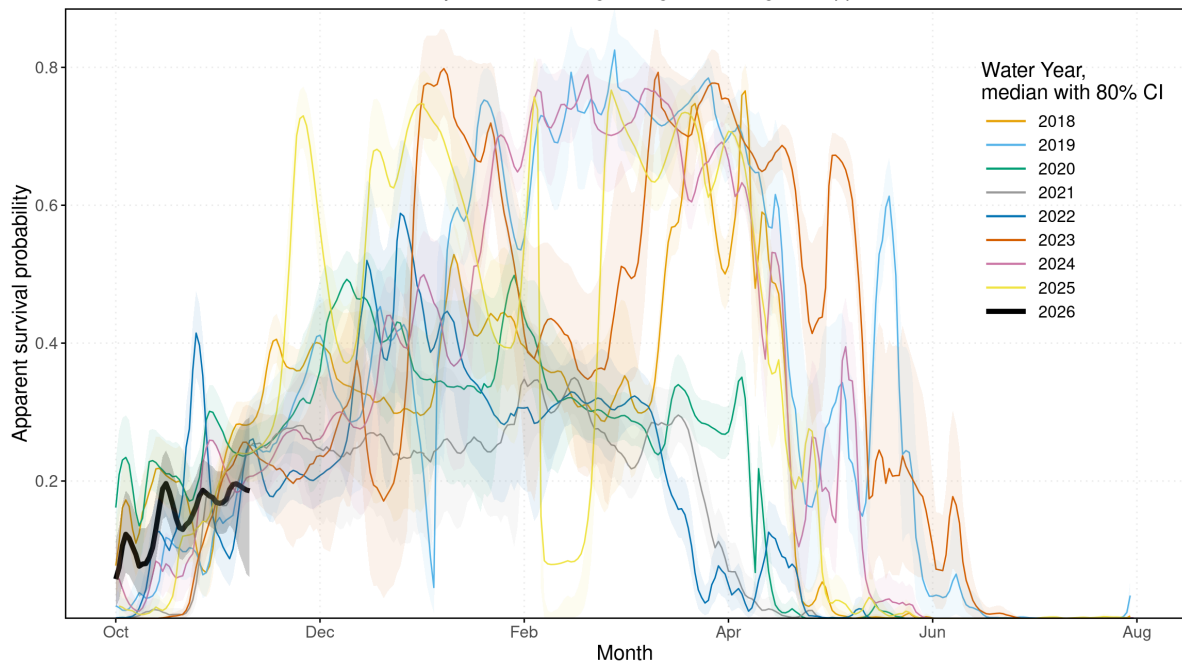


Figure 3: Estimated overall winter-run survival from Knights Landing to Chipps Island. Black line indicates the current water-year, and other colored lines correspond to past water years.

Interior Delta Route-specific Survival Probability: Median survival of daily cohorts using the Interior Delta STARS Model - Predicted Natural Winter-run Chinook Daily Cohorts Passage, Knights Landing to Chipps Island

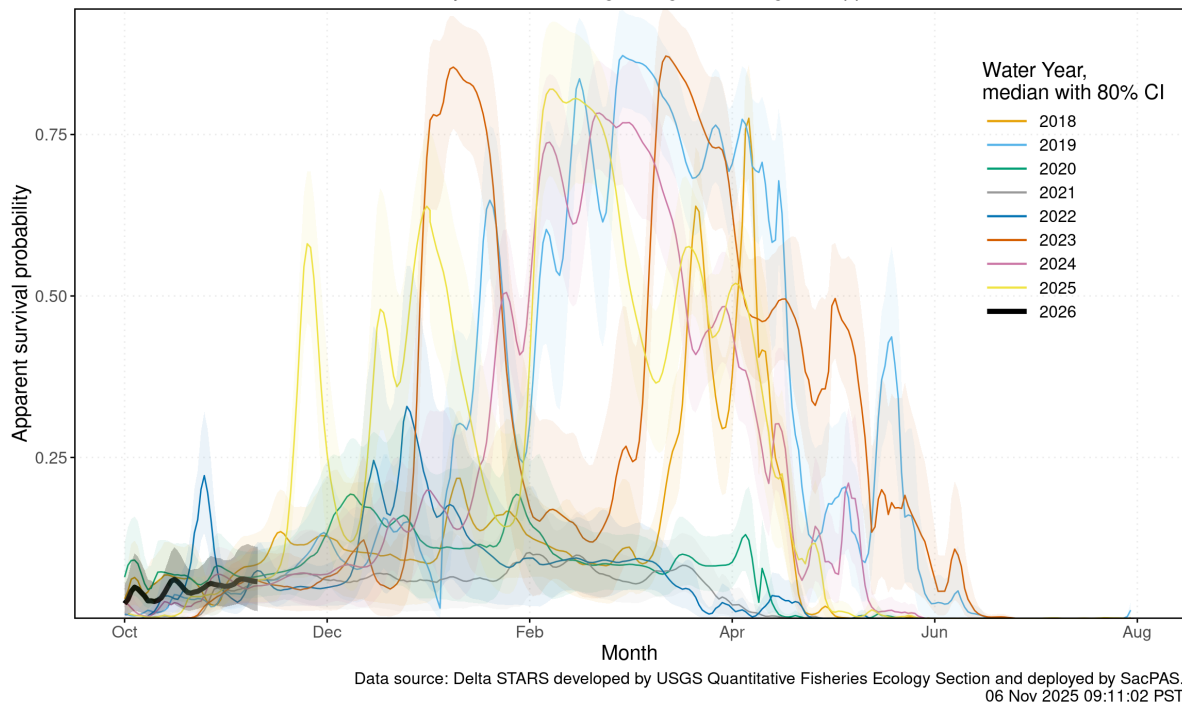


Figure 4: Estimated survival from Knights Landing to Chipps Island of simulate winter-run cohorts that route through the interior delta. Black line indicates the current water-year, and other colored lines correspond to past water years.

Interior Delta Route-specific Probability: Proportion of daily cohorts using the Interior Delta route
Delta STARS Model -
Predicted Natural Winter-run Chinook Daily Cohorts Passage, Knights Landing to Chipps Island

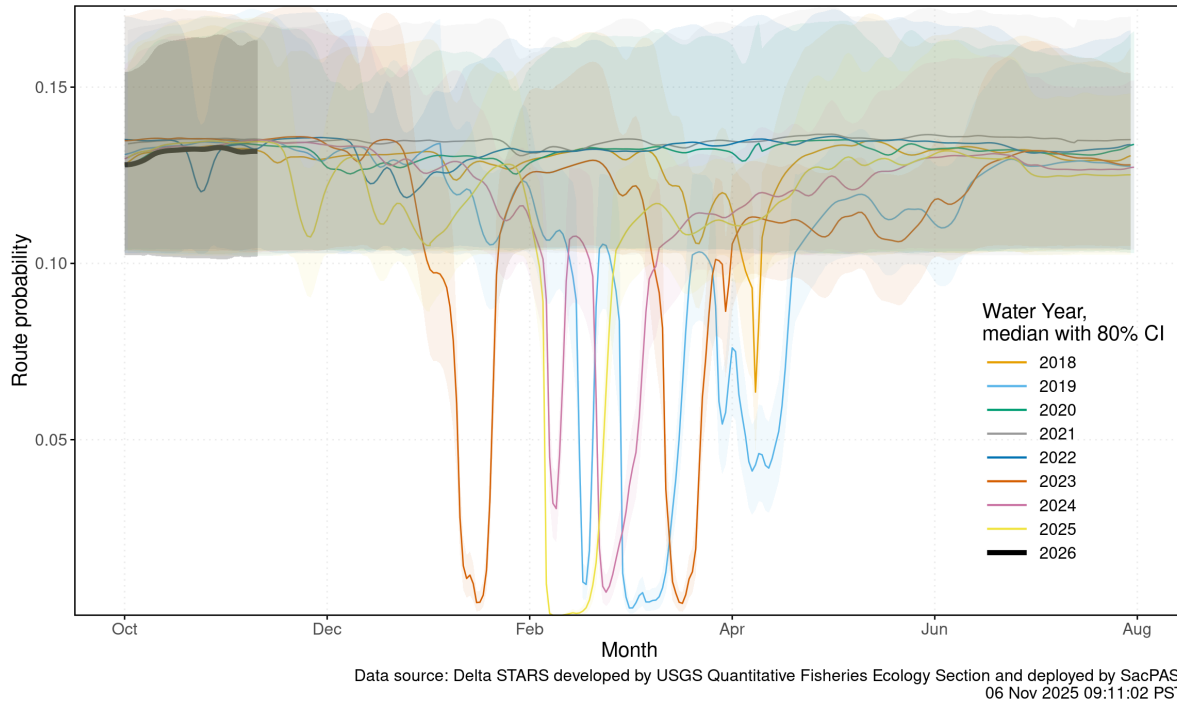


Figure 5: Estimated probability of winter-run routing into the interior delta. Black line indicates the current water-year, and other colored lines correspond to past water years.

DCC Gate Closures

Early Season Migration

Early season migration thresholds have not been triggered.

Hatchery Winter-run Chinook

Current Status

Give update on migration, salvage, monitoring, and telemetry findings.

As of Sys.Date() 500,000 hatchery winter-run have been released into the Sacramento River on February 15, 2025 and 50,000 have been released into Battle Creek on March 21, 2026. JPEs are 80,000 and 10,000 for the respective releases with annual loss thresholds of 150 fish for the Sacramento Release and 10 fish for the Battle Creek Release.

Central Valley Steelhead

Current Status

Give update on migration, salvage, monitoring of clipped and unclipped steelhead.

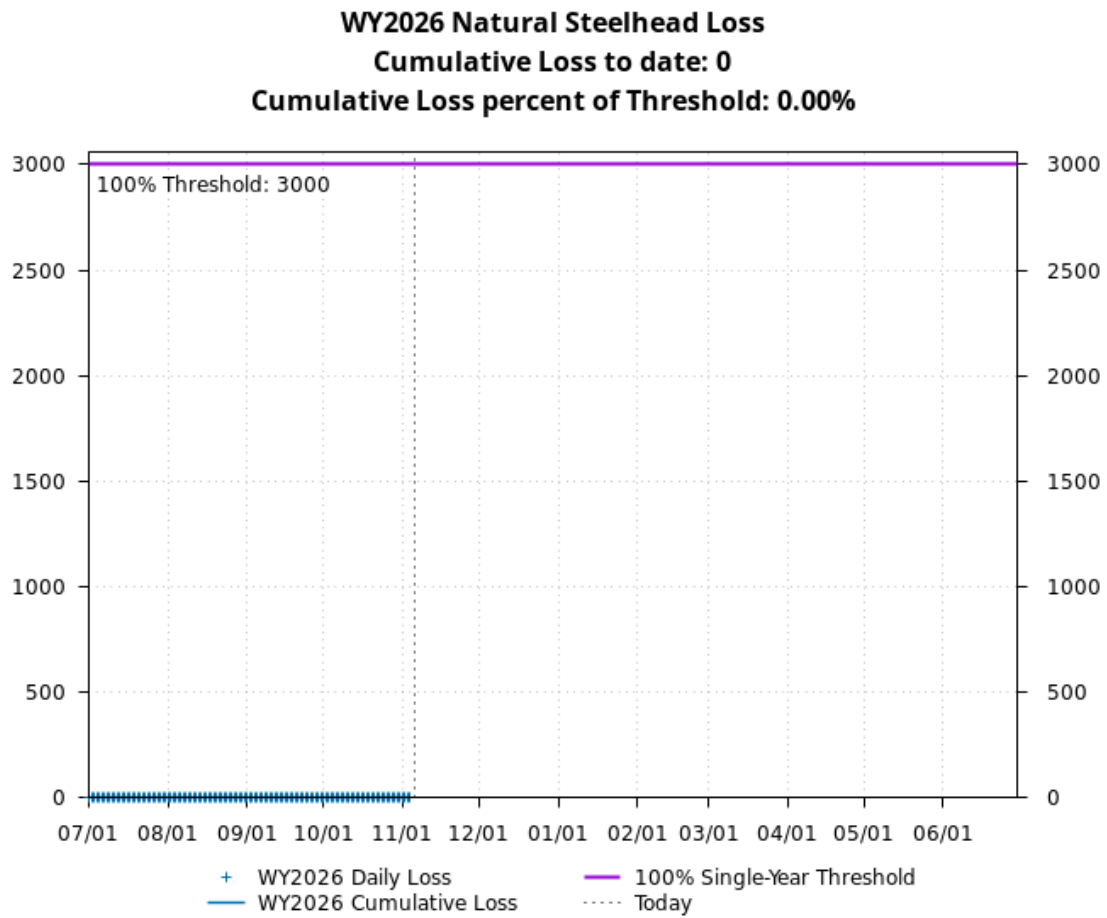
Historically, as of Nov 06, 0% of CCV steelhead have entered the delta based on Knights Landing RST catch, 0% have exited the delta based on Chipps Island Trawl Catch, and 0.3% have been salvaged.

Table 2: Average Percent, with 95%CI, of annual emigrating population for unclipped CCV steelhead captured at the following locations and salvaged at SWP and CVP Delta facilities for the past 10 years.

Species	Red Bluff Diversion Dam	Tisdale RST	Knights Landing RST	Sac Trawl (Sher- wood)	Chipps Island Trawl	Salvage
Steelhead, Unclipped						0.3%

Annual Loss

Cumulative loss as of x.date is xx and is xx% of thresholds.



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Figure 6: Cumulative loss of natural-origin and hatchery steelhead for WY 2026.

Appendix

References