

SacPAS: Central Valley Prediction and Assessment of Salmon through Ecological Data and Modeling for In-Season Management

Mission: Provide web-based services to link data and science to in-season management.

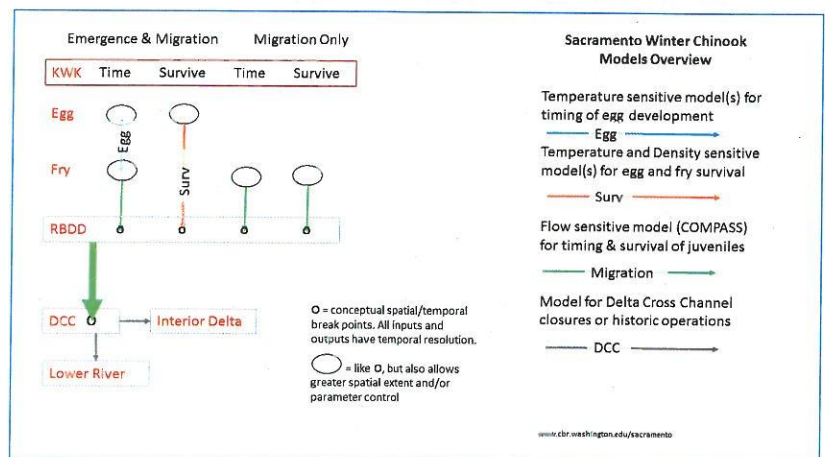
This website provides monitoring, evaluation, and web-based data products and services for primary and associated activities funded by the U.S. Bureau of Reclamation (USBR) and mandated by the Endangered Species Act (ESA). It serves as a means by which information integration services can be provided to the Central Valley Project Improvement Act (CVPIA) and ESA participants. Web-based services relate fish passage to environmental conditions and provide resources for evaluating the effects of river management and environmental conditions on salmon passage and survival.

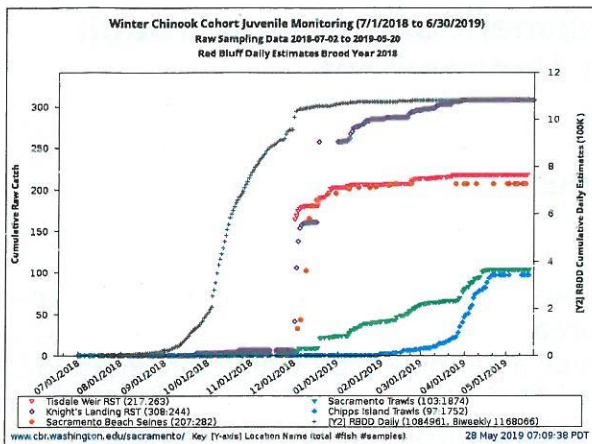
Data Queries & Alerts

Provides a publicly accessible, web-based query and reporting system of historical and current fish, environmental, and hydrologic information, vital to year-round planning and adaptive management of the Central Valley Project and State Water Project. Data uploads provide the most up-to-date data as it is made available, whether it be daily, biweekly, monthly or annually. Basic conditions, performance measures, and threshold-based alerts are available through data aggregation and analysis of environmental conditions.

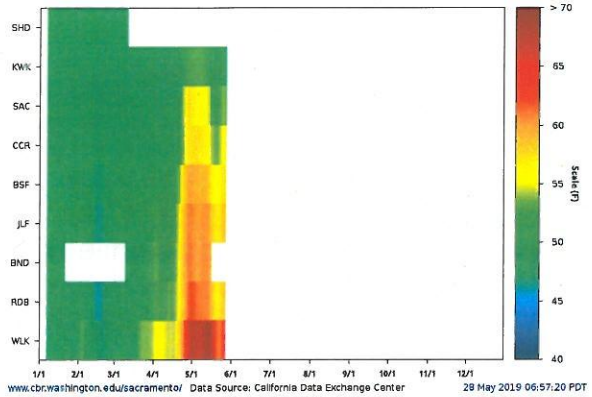
Fish Model

Adapts a smolt passage model based on NOAA's Comprehensive Passage (COMPASS) Model to characterize movement and survival of juvenile fish through the Sacramento River system. The model uses available data from long-term monitoring sites and forecasts where available. Physical data may include water velocity, temperature, and flow. Biological data may include timing and location of spawning, and fish passage observations. User controls for fish movement, survival and other sub-models make this a flexible tool for river management, scenario evaluation and analysis. SacPAS Fish Model User's Manual.





2019 Sacramento River 7DADM Water Temperature (F)
Shasta Dam to Wilkins Slough



Recent Updates

SacPAS Fish Model v.2: Spawning to Emergence & In-river Migration, Fish Model

Beta version for testing and evaluation. Includes: temperature sensitive model(s) for timing of egg development; temperature and density sensitive model(s) for egg and fry survival; flow sensitive model (COMPASS) for timing and survival of juveniles; and model for Delta Cross Channel closures or historic operations. 10 January 2019.

Loss and Salvage Detail Table, Data Queries & Alerts

Detailed Loss and Salvage for Clipped and Unclipped Chinook and Steelhead at SWP and CVP Delta Fish Facilities including WY2018 genetic information where provided. 24 August 2018.

CWT SAR, Data Queries & Alerts

Smolt-to-Adult Ratio (SAR) Estimates for Coded Wire Tag implemented for 10 Sacramento and San Joaquin hatchery programs. 29 May 2018.

CDFW GrandTab, Data Queries & Alerts

Annual update of CDFW GrandTab California Central Valley Chinook Population Database report uploaded to SacPAS database. 8 May 2018.

Juvenile Monitoring & Sampling, Data Queries & Alerts

Latest Monitoring Dates in SacPAS Database:

- Red Bluff Diversion Dam RST: 2019-05-20
- Tisdale Weir RST: 2019-05-17
- Knight's Landing RST: 2019-05-21
- Sacramento Trawls (@ Sherwood Harbor): 2019-05-17
- Sacramento Beach Seines: 2019-05-15
- Chipps Island Trawls: 2019-05-17
- Mossdale Trawls: 2019-05-09

- SWP & CVP Non-Clipped Older Juvenile Chinook Loss: 2019-04-20
- SWP & CVP Non-Clipped Fry/Smolt Chinook Loss: 2019-05-23
- SWP & CVP Non-Clipped Steelhead Loss: 2019-05-17
- SWP & CVP Exports: 2019-05-23

SacPAS: Central Valley Prediction & Assessment of Salmon, University of Washington, Columbia Basin Research, www.cbr.washington.edu/sacramento/

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