

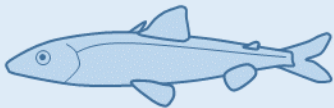


2019 Competitive Research Awards

The Delta Stewardship Council (Council), the California Department of Fish and Wildlife, and the U.S. Bureau of Reclamation (Reclamation) are pleased to award approximately \$17 million to fund 26 critical scientific studies in the Sacramento-San Joaquin River Delta and Suisun Marsh over the next three years. Of these, the Delta Science Program is awarding approximately \$9.6 million to fund 15 projects, with Reclamation contributing almost \$2 million toward four of these projects.

“With these new projects, we expect to fill important knowledge gaps that will continue to allow decision makers to make forward-looking management decisions based on the best available science”
– Delta Lead Scientist John Callaway

Research topics include:

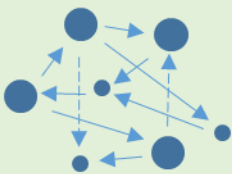


Native Fish

Enhanced monitoring and knowledge on how tides and flows influence salmon to better guide water project operations.

Improved green sturgeon monitoring methods to support their recovery and management.

New tools to distinguish different runs of Chinook salmon to improve our ability to protect their diversity.



Food Webs

Fill knowledge gaps about food web dynamics to determine if food availability is a limiting factor in fish recovery.



Levees

New methods for levee hazard assessments to ensure wise investments.



Climate Change

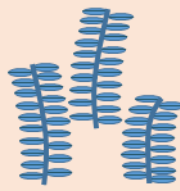
A multi-year carbon budget for a tidal marsh that will help managers better predict how climate change affects carbon capture.

More



Restoration

How habitat restoration affects the food web, allowing for better restoration project location and design.



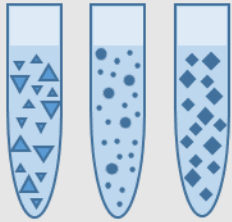
Aquatic Vegetation

Satellite-based monitoring of vegetation to measure progress toward restoration habitat goals.



Recreation

Quantifying the economic benefits of hunting on restored sites as a means to evaluate multi-benefit projects.



Water Quality

How combinations of contaminants affect fish health to guide fish recovery plans and pesticide regulations.

Fill knowledge gaps about nutrients, sediment, mercury, and salinity to enhance monitoring tools for improved water quality management.

Projects went through a rigorous and competitive selection process by multiple panels of subject matter experts and were chosen based on their potential to fulfill knowledge gaps and needs identified by the 2017-2021 **Science Action Agenda**. The Science Action Agenda prioritizes and aligns science actions to inform management decisions for the Sacramento-San Joaquin Delta. The five Science Action Agenda action areas are:



Human Dimensions



Science Synthesis



Habitat Restoration



Stressors, species, and communities



Monitoring, data management, and modeling

<http://deltacouncil.ca.gov/delta-science-joint-proposal-solicitation>
<http://scienceactionagenda.deltacouncil.ca.gov/>