

# MAXIMIZING WATER DELIVERIES



## OPERATIONAL FAILURES TRIGGER FEDERAL REVIEW OF CENTRAL VALLEY PROJECT (CVP)

In accordance with the National Environmental Policy Act (NEPA), the Bureau of Reclamation is conducting an environmental analysis of potential modifications to the operations of the CVP, including the need to maximize water delivery, modify regulations, and evaluate stressors on fish populations.

### WHY THE BUREAU IS TAKING ACTION:

- State and federal regulatory actions have significantly reduced the **water available for delivery** south of the Sacramento-San Joaquin River Delta.
- Maximize water supply delivery, consistent with applicable law, contracts and agreements, considering new and/or modified storage and export facilities.
- Review and consider modifications to regulatory requirements
- Evaluate **stressors on fish** other than CVP and State Water Project operations, beneficial non-flow measures to decrease stressors, and habitat restoration, and other beneficial measures for improving targeted fish populations.



### RECENT HISTORY OF REGULATORY CONSTRAINTS ON WATER ALLOCATIONS

Percentage of South-of-Delta CVP Water Allocation to Agriculture



<https://www.usbr.gov/mp/cvp-water/docs/cvp-water-deliveries.pdf>

### POTENTIAL MODIFICATIONS BEING CONSIDERED:

- Increase storage capacity
- Increase export capabilities
- Generate additional water through optimal utilization, desalination, water conservation, or water reuse
- Modify operations of the CVP/SWP
- Habitat restoration to increase fish populations
- Modify facilities to reduce impacts to listed species

### STRESSORS ON NATIVE FISH POPULATIONS



Experts agree that there are numerous stressors that can lead to adverse effects on native fish populations. These include:

- CONTAMINANTS
- ALTERED NUTRIENT LOADS
- CHANGES IN FOOD AVAILABILITY AND QUALITY
- INTRODUCED FISHES
- IMPEDIMENTS TO PASSAGE, CHANGES IN OCEAN CONDITIONS, FISHING, AND HATCHERIES
- DISEASES
- CLIMATE CHANGE
- LOSS OF HABITAT
- ECOSYSTEM WATER QUALITY
- NON-NATIVE SPECIES
- HATCHERIES AND HARVEST MANAGEMENT

"5 Other Stressors." National Research Council. 2010. A Scientific Assessment of Alternatives for Reducing Water Management Effects on Threatened and Endangered Fishes in California's Bay-Delta. Washington, DC: The National Academies Press. doi: 10.17226/12881.