



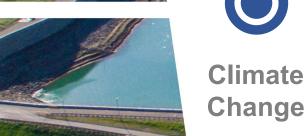
The Los Vaqueros Reservoir Expansion is an innovative and collaborative solution to benefit the regional ecosystems and create a climate-resilient water supply for more than 11 million Californians.





Unprecedented Challenges Require Regional Partnerships







Increasing Regulatory Constraints



Degrading Ecosystems



Shifting
Population and
Strained Local
Economies



Why Los Vaqueros Reservoir Expansion?

Collaborative solution to create climate-resilient water supply

- Expand storage in strategic location
- Leverage existing facilities to create a regional connected system
- Provide access to additional intakes in the Delta and lower Sacramento River
- Broad multi-benefits and partnership













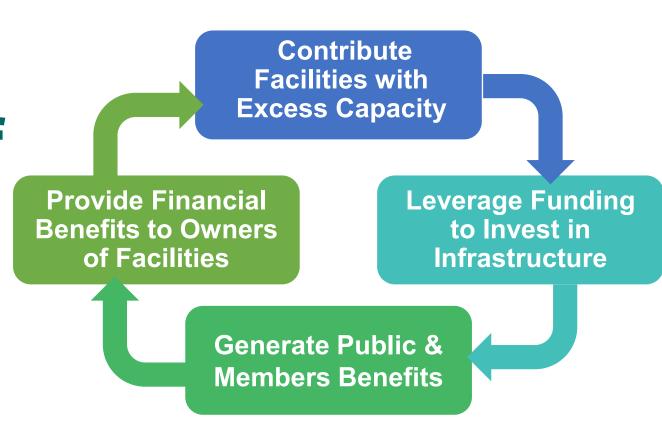
Los Vaqueros Reservoir, a Contra Costa Water District Success Story

- Watershed of 18,500 acres surrounding the 1,900-acre Reservoir for protection of water quality, sensitive species, and habitat.
- CCWD successfully financed and implemented the original 1998 dam, intake, and conveyance construction, the 2009 new intake, and the 2012 dam raise which was completed on schedule and under budget.





Benefits of Excess Capacity







A History of Los Vaqueros Reservoir

1988

CCWD's Customers approved funding for the Project.

1998

Construction completed and operations begin. (100,000 acre-feet, 192 feet dam).

2009

CCWD completed mid-river intake.

2018

WSIP Funding Conditional Eligibility Federal Feasibility (275,000 acre-feet, 55 feet raise).

2025

Execute Project agreements, & secure funding.

Construction began.

1994

CCWD voted in support of expansion studies

2003

CCWD expand Reservoir to 160.000 acrefeet (34 feet raise).

2012

JPA formed.

2021

Begin Construction Los Vaqueros Reservoir Expansion.

2026











Multi-agency effort with broad state, federal, and environmental stakeholder support.

- Develop water supplies for environmental water management
- Increase municipal, industrial, and agricultural water supply reliability
- All while continuing to deliver the benefits CCWD customers invested in when building Los Vaqueros Reservoir.



Regional Partnerships









- 1. Alameda County Water District
- Contra Costa Water DistrictCity of Brentwood
- 3. East Bay Municipal Utility District
- 4. Grassland Water District
- 5. San Francisco Public Utilities Commission Bay Area Water Supply & Conservation Agency
- San Luis & Delta-Mendota Water Authority
 Byron Bethany Irrigation District
 City of Tracy
 Del Puerto Water District
 Panoche Water District
 Westland Water District
- 7. Santa Clara Valley Water District
- 8. Zone 7 Water Agency





Refuges & Ecosystem Benefits



South of Delta Wildlife Habitat: 95% Loss Since 1850

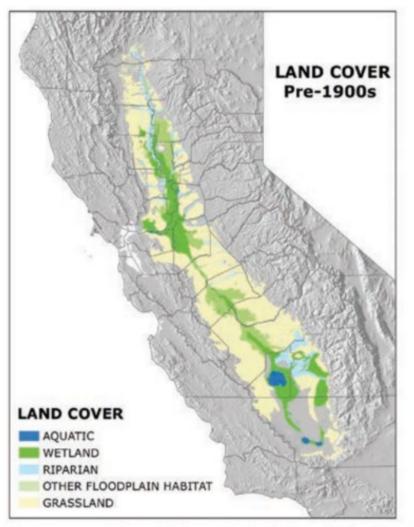


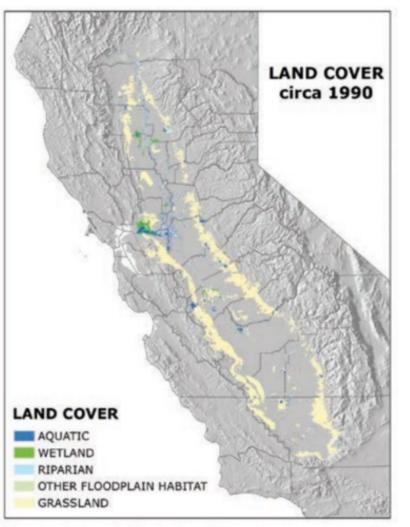












Disappearance of Central Valley wetlands © Central Valley Historic Mapping Project, California State University, Chico, Geographic Information Center, 2003

Sacrament San Joaquin River Delta Stockton @ Modesto Freitas Unit West Bear Creek Unit China Island Unit-East Bear Creek Unit **Kesterson Unit** San Luis Unit **Grassland North** Los Banos Wildlife Refuge Volta Wildlife Area Merced National Wildlife Refuge **Grassland South** · Fresno Mendota Wildlife Area **(43)** Kings Rive Visalia • **Pixley National** Kettleman Wildlife Refuge City federal refuges state wildlife areas **Kern National** local/private refuges Wildlife Refuge Bakersfield

South of Delta Wildlife Refuges













Wetlands of International Importance



Western
Hemispheric
Shorebird Reserve







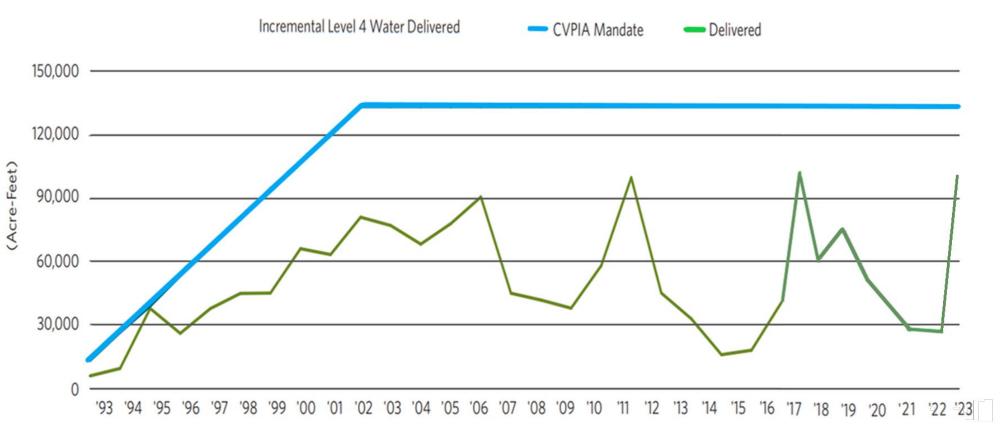






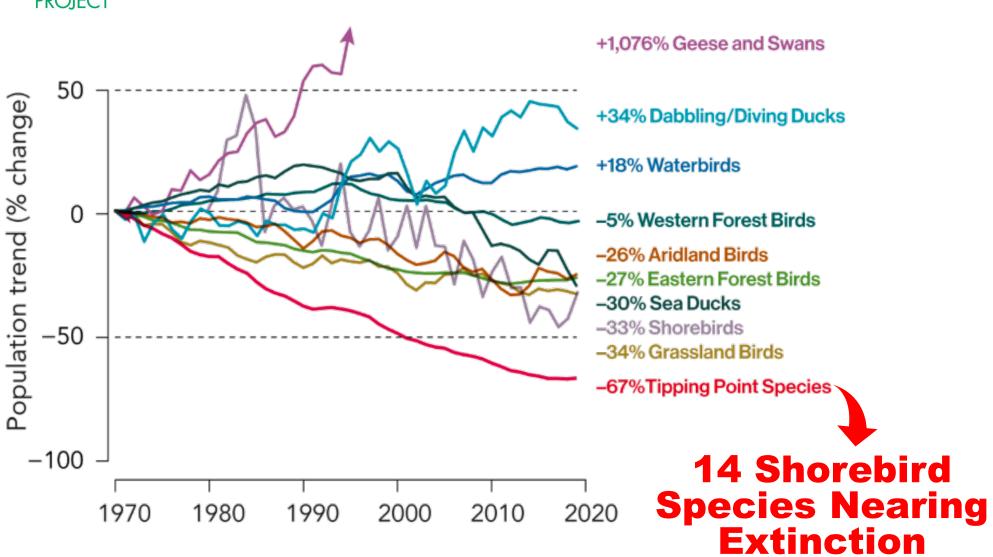








State of the Birds Report 2022







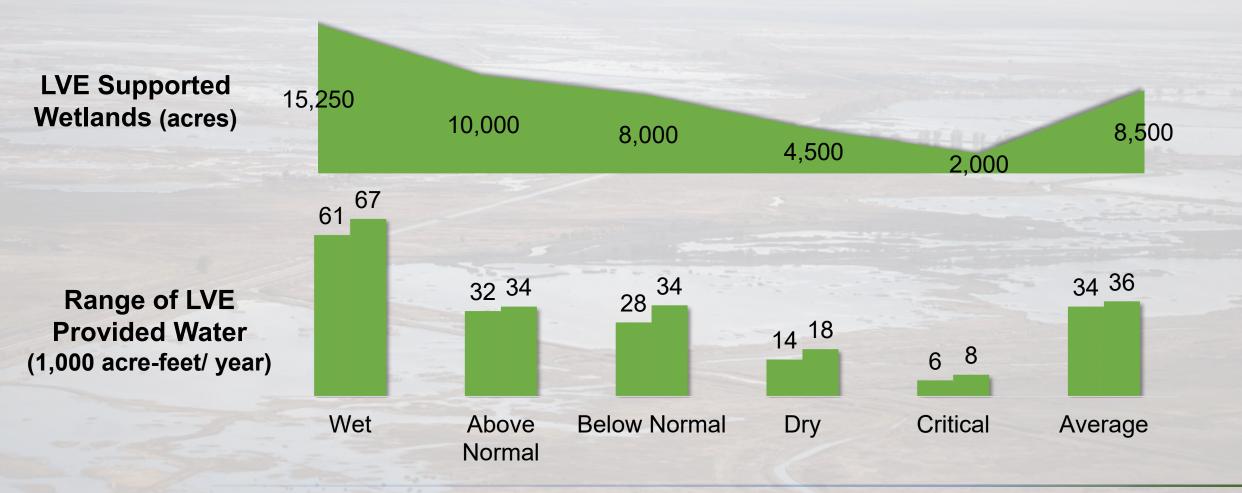






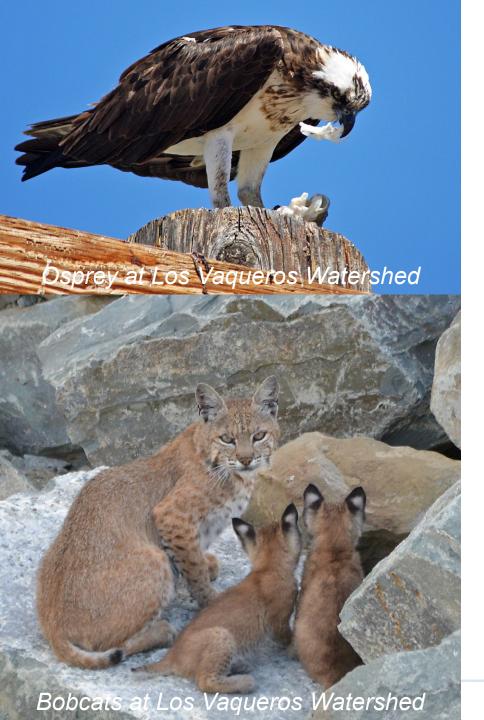


South of Delta Wildlife Refuge Benefits from the Los Vaqueros Reservoir Expansion





State & Federal Benefits



Access to Funding



The multi-agency partnerships and broad range of benefits developed because of the Los Vaqueros Reservoir Expansion project have allowed the program to secure, otherwise inaccessible, public investments.



Federal Benefits



Ecosystem

- Improves water supply for south of Delta wildlife refuges and access to storage to optimize delivery of water supplies.
- Addresses long-standing unmet CVPIA mandate for Refuge water supplies.

Water Supply Reliability

 Potential to enhance south of Delta Central Valley Project deliveries.



State Public Benefits



Ecosystem

- Water supply for south of Delta wildlife refuges and access to storage to optimize delivery of water supplies.
- Improved survival of salmonids migrating through Delta by reducing entrainment at Rock Slough intake.

Emergency Response

- Improves drought preparedness and resilience.
- Non-drought emergency access to storage and conveyance during Delta outage emergencies due to natural disasters or infrastructure failures.

Recreation

- Enhance recreation at reservoir & Watershed
- Helps implement State's resiliency portfolio





- Creates up to 13,000 construction and suppliers related jobs.
- Boosts local tax revenues during project construction.
- Supports long-term economic stability by ensuring a reliable water supply, crucial for region's agricultural and industrial sectors.





Operational & Water Supply Benefits

Member Benefits



Increased Water Supply Reliability

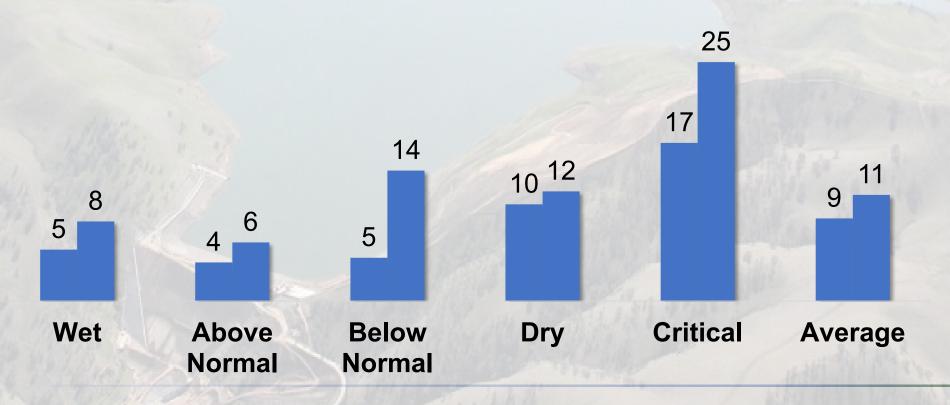
- Drought preparedness and resilience.
- Emergency storage during natural disasters or infrastructure failure.
- Diversify members water supplies.
- Facilitate transfers and exchanges.
- Improve climate change resiliency.







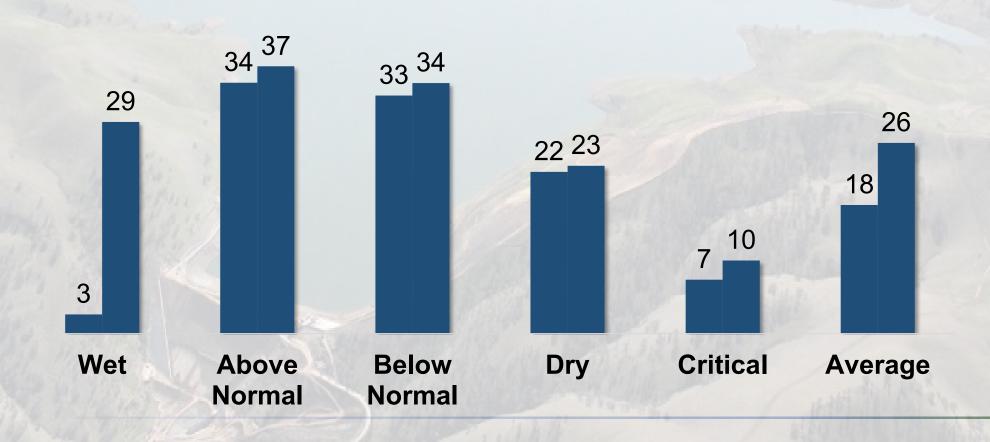
 The expanded storage will allow Members to optimize use of existing and new sources of supplies, enhance supply reliability, and increase drought protection.





Range of Agricultural Water Supply Benefits

 Members will use CCWD's excess intake capacity to access North of Delta water supplies when Delta conveyance constraints make them otherwise inaccessible.





A Systemwide and Regional Win-Win



Systemwide and Regional Operational Benefits

Improves operational flexibility of the statewide water system:

- Additional system storage at key location.
- Ability to move water around south of Delta State & Federal pumps.

Systemwide and Regional Connectivity Benefits









Leverages existing facilities to create a regional connected system:

- Physical interties between multiple agencies
- Maximizes use of existing regional facilities
- Local storage to leverage uses of other supply sources
- Part of Bay Area Regional Reliability
 Program
 - Improves operational flexibility of the statewide water system

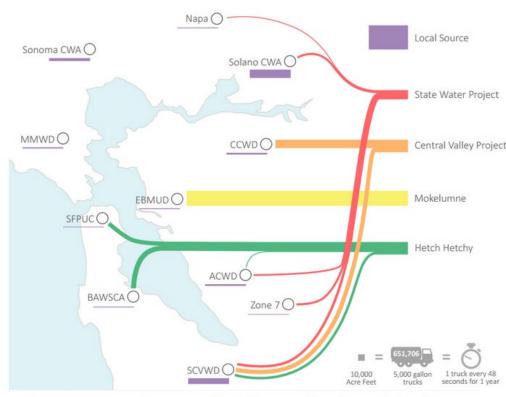
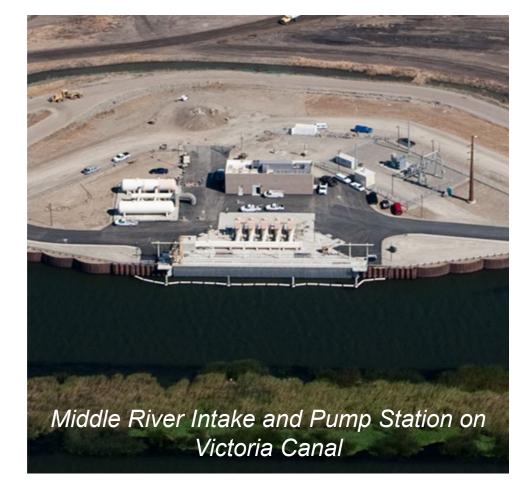


Figure Source: ABAG Infrastructure Vulnerability & Interdependency Study (2014)





- ✓ Members benefit from access to excess capacity at CCWD's and EBMUD's facilities.
- ✓ Opportunities to modernize and enhance CCWD's and EBMUD's existing facilities.
- Support recovery of some of CCWD's and EBMUD's investments in the constructed facilities.
- Members will share the O&M expenses for some of CCWD and EBMUD facilities.





Collaborating Agencies



CONTRA COSTA WATER DISTRICT





San Francisco Public Utilities Commission

























EBMUD





Valley Water





A rare opportunity.





Additional Resources



Proposed Facilities





- Expand Los VaquerosReservoir from 160 to 275TAF
- Add pipeline, connecting to the California Aqueduct
- Add/upgrade pumping facilities
- Implement EBMUD system improvements to support deliveries to Project Partners
- Reoperate existing CCWD and EBMUD facilities

