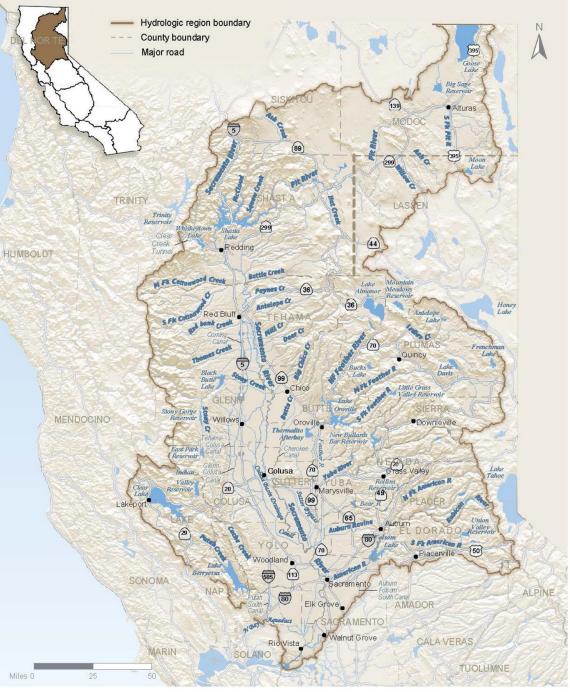


Valle de Sacramento Un lugar verdaderamente único y excepcional!



Sacramento Valley









Sacramento Valley

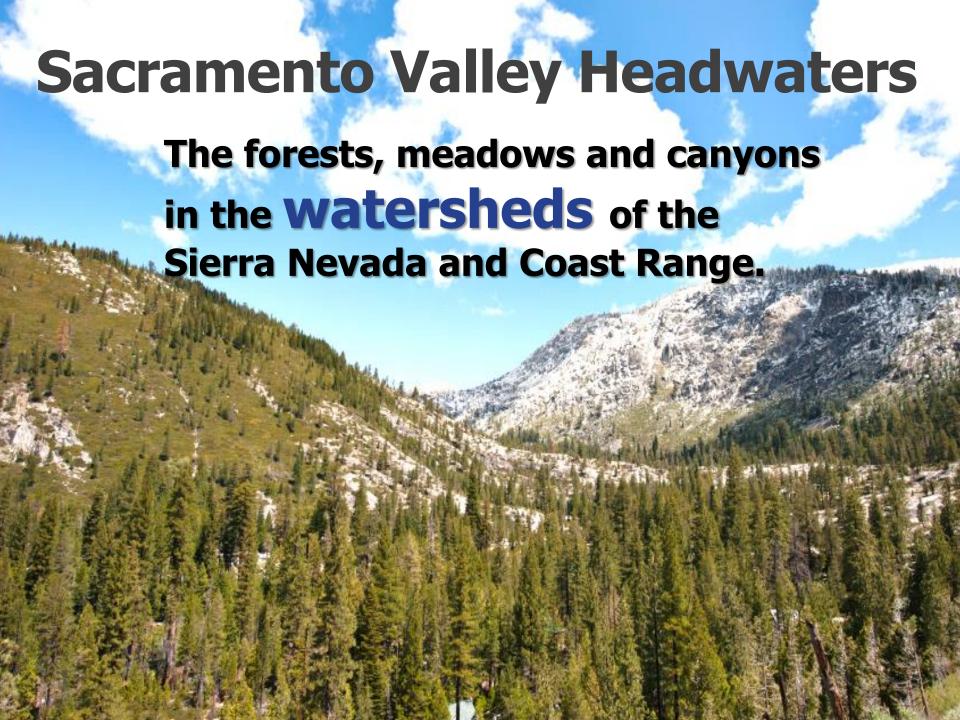
Seven National Wildlife Refuges, more than fifty state Wildlife Areas and other privately managed wetlands that support the annual migration of waterfowl, geese and shore birds in the Pacific Flyway. These seasonal and permanent wetlands provide 65% of the North American Waterfowl Management Plan objectives;

The transfer of the state of th

Sacramento Valley

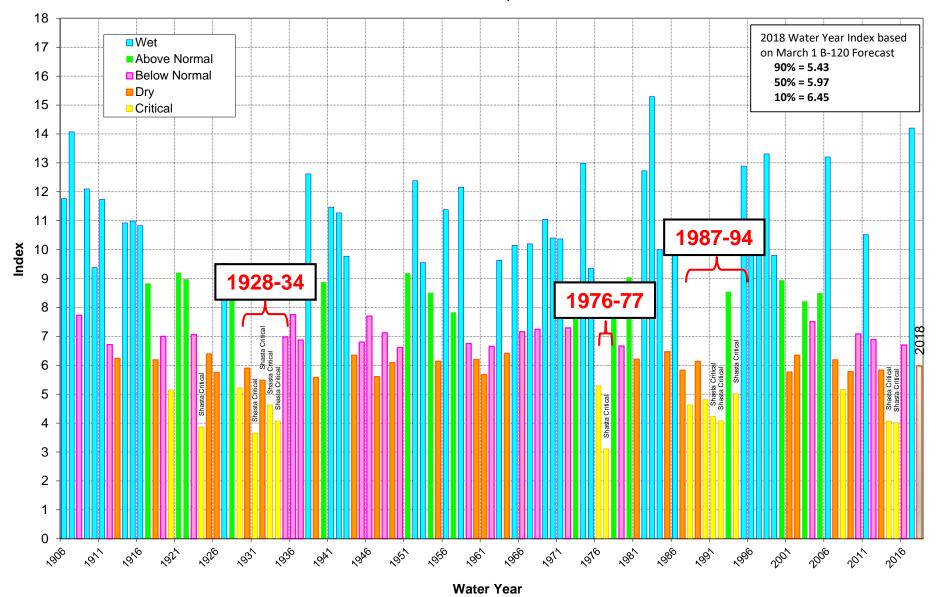
The small towns and rural communities that form the backbone of the region, as well as the State Capital that serves as the center of government for the State of California.





Sacramento Valley Water Year Type Index (40-30-30) 1906 - 2017

Based on Observed Unimpaired Runoff



Water Rights in the Sacramento Valley

- - Riparian Water Rights
 - Pre-1914 Water Rights
 - State Water Board Permits and Licenses
 - Central Valley Project Contracts
 - State Water Project Contracts
- Groundwater (8,000+...landowners)
 - Overlying
 - Appropriative





Accounting for every drop.

Water management in the Sacramento Valley.

In the Sacramento Valley, a highly efficient "flow-through" system allows water to move from mountains to ocean. Water resources managers work with the Valley's unique topography, geology and hydrology to gather, use and reuse this precious resource.

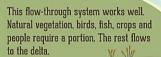
This system is the heart of the Valley's healthy ecosystem, diverse economy and rich recreational opportunities.

Rice is grown on dense clay soil which prevents seepage and ensures water is available for re-use downstream.





The water not used in one district is a source of water for others downstream.

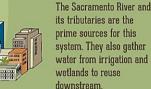




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Active management of the Sacramento Valley's flow-through system ensures that the water we need and the benefits we enjoy will continue to be available.

Information compiled by Northern California Water Association and California Rice Commission. Facebook.com/SacValleyCA





Dando cuentas por cada gota.

Manejo del agua en el Valle de Sacramento.

En el Valle de Sacramento, un sistema de "flujo continuo" altamente eficiente permite que el agua fluya de la montaña al mar. Los administradores de los recursos de agua trabajan con la singular topografía, geología e hidrología del valle para recolectar, usar y volver a usar este valioso recurso.

Este sistema es el corazón del saludable ecosistema, la economía diversa y las múltiples oportunidades recreativas del Valle.

El arroz se cultiva en una densa tierra gredosa, lo cual evita la filtración y garantiza que el agua esté disponible río abajo.



El agua que no se utiliza en un distrito es una fuente de agua para otros río abajo.

Este sistema de "flujo continuo" funciona bien. La vegetación natural, los pájaros, los peces, los cultivos y la gente requieren una parte. El resto fluye al delta.



Manejo del agua en el Valle de Sacramento.

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El Río Sacramento y sus tributarios son las fuentes principales para este sistema. Ellos también recogen agua de irrigación y de zonas pantanosas para volverla a utilizar río abajo.

Un manejo activo del sistema de "flujo continuo" del Valle de Sacramento asegura que el agua que necesitamos y los beneficios que gozamos continuarán disponibles.







Información compilada por la Asociación del Norte de California para el Manejo del Agua y la Comisión de California del Arroz.

Re-imagining our Water System

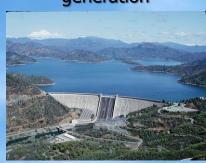




Salmon and steelhead rearing and spawning



Hydropower generation



Agricultural and M&I water supplies



Pacific Flyway migratory bird habitat and refuge deliveries



Recreation



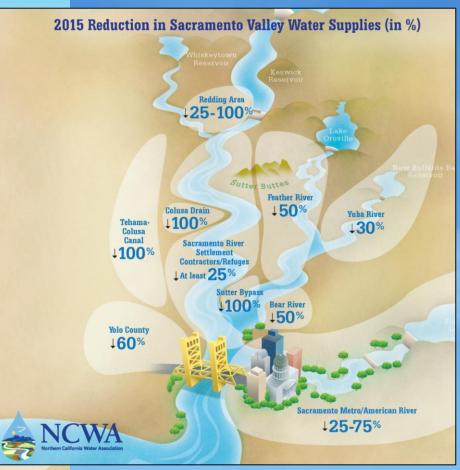
Water Rights System Worked in 2014-15

Planning for a Dry Year in the North State

Water suppliers throughout the North State have planned for dry years in California like 2015. 2015 Reduction in Sacramento Valley Water Supplies (in %) Water supplies in the Sacramento Valley With California enduring its have been reduced more than 25 percent in consecutive dry year, water every part of the Sacramento Valley this managers have been working o year-with many areas and people having state and federal agencies and co their surface supplies reduced 100 percent. partners to stretch every availab The severity of the cuts depends upon the water in creative ways to benefit Redding Area water rights or contract. These cutbacks 25-100% will have a negative impact on all the water uses in the region, including cities and rural communities, farms, fish, birds and recreation. California's water right system works-in a dry year like 2015, water suppliers have planned for reductions and they are able to develop alternative water management plans in response Feather River to the lack of surface water. ↓50% Colusa Drain Yuba River Tehama-1100% ↓30% Colusa Water rights and contracts Sacramento River are the foundation for water ↓100% Settlement operations throughout California. Contractors/Refuges The orderly implementation of Water suppliers in the North LAt least 25% the water rights system provides this year have also re-managed economic and environmental every watercourse for the benefit stability to address the current salmon (see back page) dry year challenges and prepare 1100% Bear River for future droughts. 150% **Yolo County** 160%

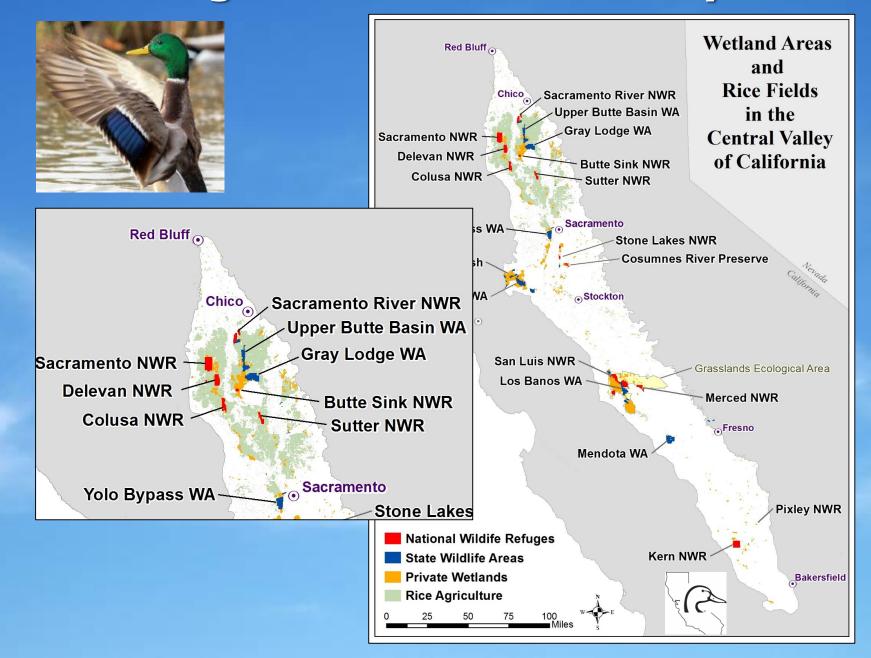
r more details visit http://www.norcalwater.org

nento Metro/American River



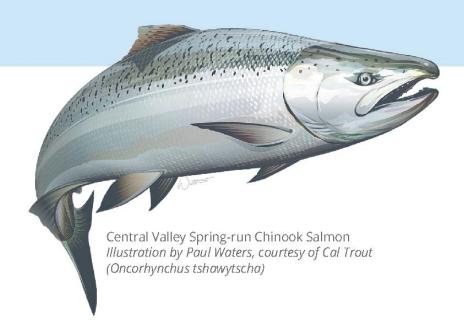
♦ The existing system of ecosystem protections relies heavily on constraining the exercise of water rights

The re-imagined water system integrates environmental water management into the water rights and water management system



A Water Budget for Freshwater Ecosystems Sacramento Valley Salmon Recovery Program

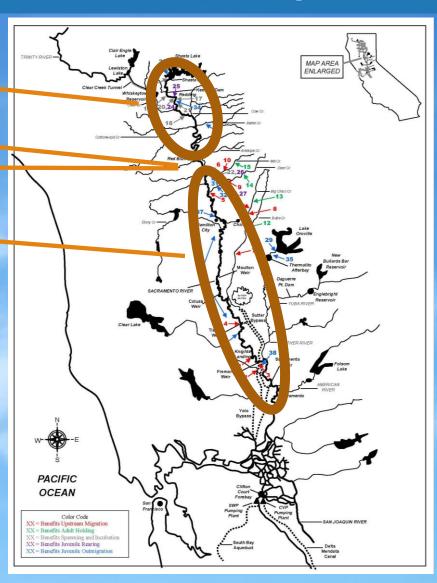
Local water management entities, conservation organizations and state and federal fisheries and water management agencies in 2014 joined together to form the Sacramento Valley Salmon Recovery Program, a collaborative partnership to complete projects and improve science to promote recovery of salmon and other species of fish in the region. These actions are implementing both the National Marine Fisheries Service's Recovery Plan for the Sacramento River and the California Natural Resources Agency's Sacramento Valley Salmon Resiliency Strategy.



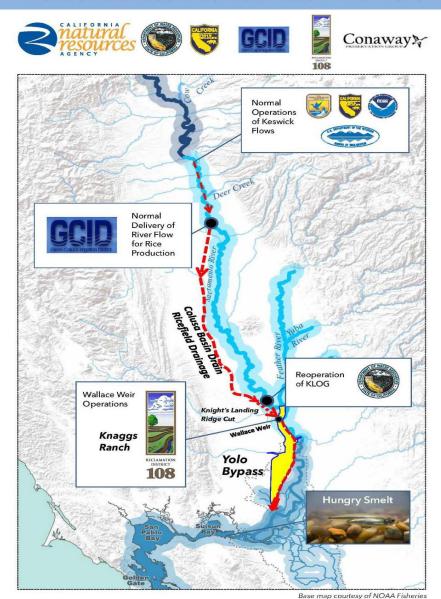
A Water Budget for Freshwater Ecosystems Sacramento Valley Salmon Recovery Program

- Upper River
- In-River
- **♦** Floodplains





Delta Smelt Food Web Flow Action - Fall 2018





Reactivating our Floodplains



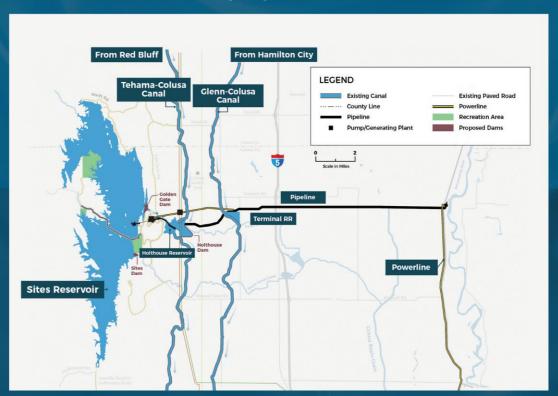
The Sacramento Valley is fertile ground for developing a new path forward for holistic water management that incorporates best available science and practical know-how of farm and refuge managers to reactivate the floodplain.



SITES RESERVOIR

Increasing Dry Year Supplies

Sites Reservoir is unique in many ways, carefully balancing the needs of both people and the environment





A proven approach

1965

Successes in the Sacramento Valley



By flooding farm fields and historic wetlands with just a few inches of water, a safe haven for wild birds was created. Today, hundreds of thousands of waterfowl return to Northern California as part of the Pacific Flyway, the environmental success story of our generation.

1985

2005

A proven approach

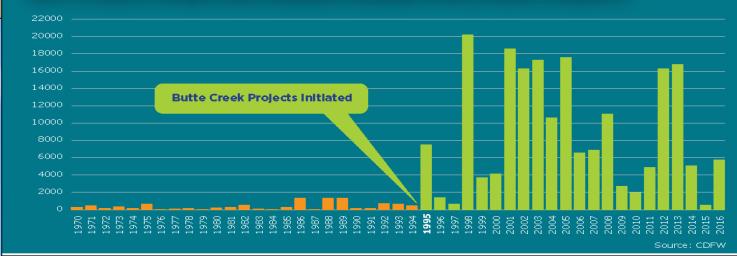
Successes in the Sacramento Valley

A few decades ago, only a few hundred fish returned to Butte Creek to spawn each year. Today, that number has jumped to more than 10,000. The reason? Butte Creek water has been combined with land and sun to provide a safe and bountiful place for fish to thrive.





BUTTE CREEK SPRING-RUN CHINOOK SALMON POPULATION ESTIMATES



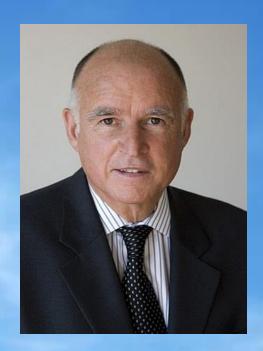
Water Transfers



The transition from the existing system of environmental protections to water budgets for freshwater ecosystems is best achieved by voluntary agreements as part of a comprehensive plan.

Governor Jerry Brown

State entities will encourage negotiated agreements among interested parties to implement flow and nonflow actions to meet regulatory standards and support all beneficial uses of water.





Governor Gavin Newsom

Our first task, our collective effort, must be to cross the finish line on real agreements to save the Sacramento-San Joaquin Bay-Delta. We must get this done for the resilience of our mighty rivers, for the stability of our agricultural sector, and for the millions and millions of people that depend on this water every day.







The New Way Forward

A global model

The Sacramento River Basin is participating in a new collaboration featuring science-based programs balancing human and wildlife needs while setting the course for 15 years of collaboration and commitment by local, regional, state and federal agencies. This is possible *only* through voluntary agreements, and offers a variety of benefits:



Positively impacts entire lifecycle of native fish from spawning grounds to San Francisco Bay



Recharges groundwater supplies



Safe, bountiful habitat for waterfowl and shorebirds



Improves timely flow and temperature schedules to benefit fish and wildlife



Produces billions of water bugs to feed endangered



Maintains flood control measures



Adds water to key points along the entire river system

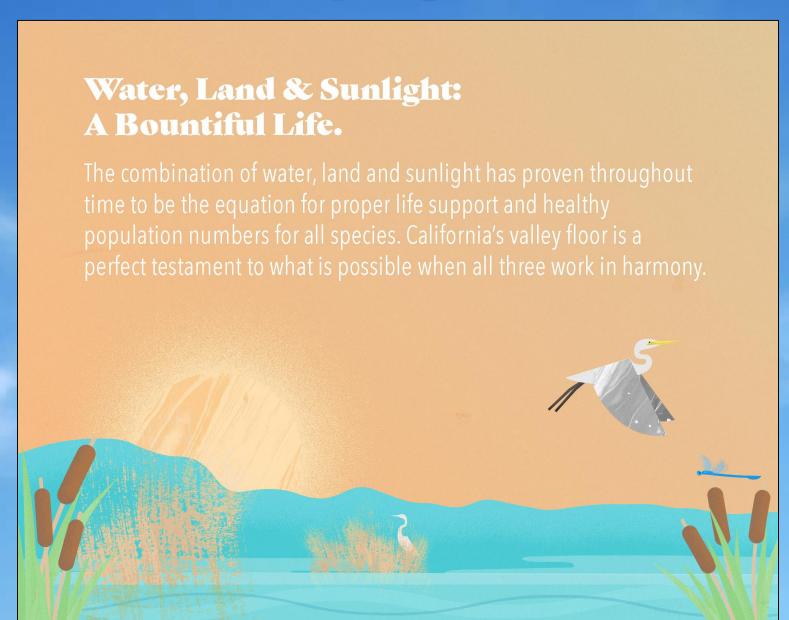


Enhances reservoir storage for critical times

Voluntary Agreement Portfolio

- **♦** Additional instream and out-of-stream flows
- **♦** Habitat Enhancements
- **▶** Endowed Funding
- **♦ Collaboration and Regional Governance**
- ♦ Robust and Structured Science Program
- **► Integration of Rivers**

Voluntary Agreements





El Valle de Sacramento

Como una huella dactilar humana, el Valle de Sacramento en California es verdaderamente único. A la vanauardia en sostenibilidad económica, es también un lugar excepcional para vivir, trabajar retine un mosaico mundialmente famoso de abundancia natural: tierras de cultivo productivas, refugios naturales y zonas pantanosas controladas, ciudades y comunidades rurales y ríos serpenteantes que apoyan y alimentan pesquerías y hábitats naturales. Por medio de una administración eficiente de los recursos de agua de la región, el Valle de Sacramento continuará generando lo que es esencial para un futuro exitoso y próspero para California. Alimentación y sustento de los campos, hábitats para peces y vida salvaje, recreación y una calidad especial de vida el Valle de Sacramento es el hogar para todo esto, y más...

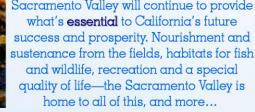


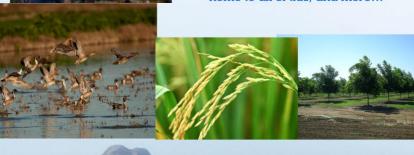


The Sacramento Valley

Like a human fingerprint, California's Sacramento Valley is truly unique. On the leading edge of ecological and economical sustainability, it's also an

exceptional place to live, work and raise a family. The Sacramento Valley joins together a world renowned mosaic of natural abundance: productive farmlands, wildlife refuges and managed wetlands, cities and rural communities, and meandering rivers that support and feed fisheries and natural habitats. Through efficient management of the region's water resources, the Sacramento Valley will continue to provide







Voices from the Valley

norcalwater.org

sacramentovalley.org





