

# Telling Our Story: The Sacramento Valley



**NCWA**  
Northern California Water Association

In the pages that follow you will get a glimpse into the Sacramento Valley, how its leaders are cultivating a shared vision in the Sacramento Valley for a vibrant way of life, and the central role water serves—from ridgetop to river mouth—in bringing this special region to life.

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, healthy forests, wildlife refuges and managed wetlands, cities and rural communities, and vital 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 what's *essential* to California's future success and prosperity. Nourishment and sustenance from the fields, habitats for fish and wildlife, hydro-energy, recreation and a special quality of life—the Sacramento Valley is home to all of this, and more.

**We encourage you to learn about these documents and use them in any way helpful. Please click on the picture or text below to see the full document. You can also visit the NCWA website at [www.norcalwater.org/infographics](http://www.norcalwater.org/infographics), or contact [dochoa@norcalwater.org](mailto:dochoa@norcalwater.org).**

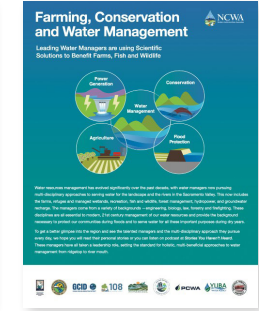
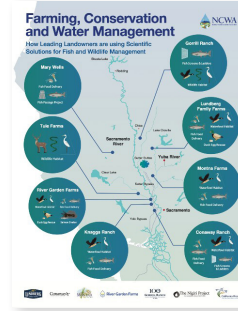
## #SourcingOur SustainableFuture

The Sacramento Valley is sourcing our sustainable future through responsible management of the essential resource that millions of birds, hundreds of thousands of fish, thousands of farms and millions of people all rely on—water!



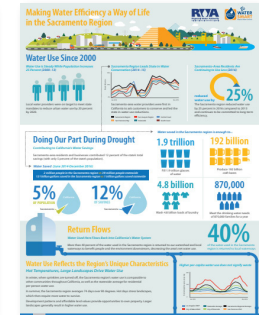
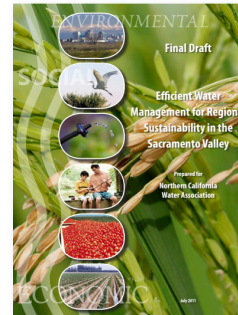
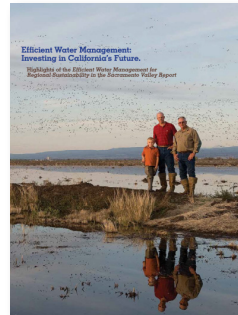
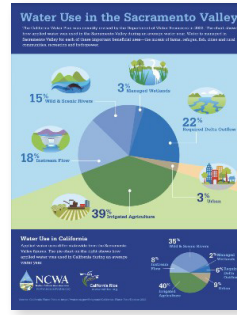
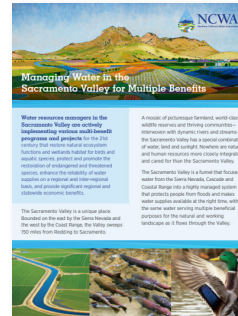
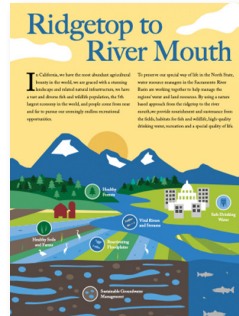
# Personal Stories: Landowner Conservation and Stewardship

- Personal Stories - Series
- Farming and Conservation (Landowners)
- Farming and Conservation (Conservationists)
- Farming and Conservation (Water Managers)

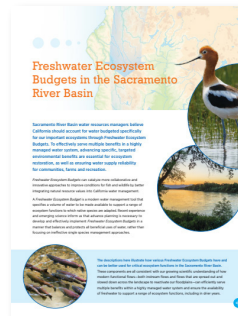
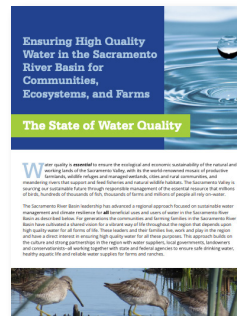


# Ridgetop to River Mouth Water Management for Multiple Benefits

- Ridgetop to River Mouth
- Water Management Investments
- Managing Water in the Sacramento Valley for Multiple Purposes
- Water Management in the Sacramento Valley (English and Spanish)
- Modern Functional Flows for the Sacramento Valley
- Water Use in California
- Efficient Water Management: Investing in California's Future
- Efficient Water Management for Regional Sustainability in the Sacramento Valley
- Making Water Efficiency a Way of Life in the Sacramento Region - RWA



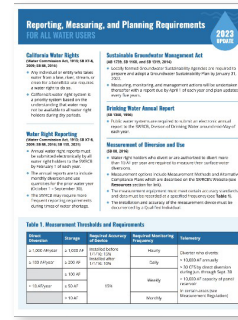
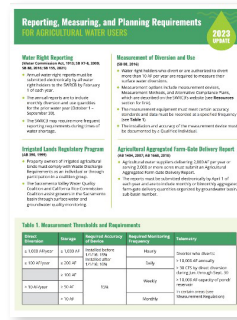
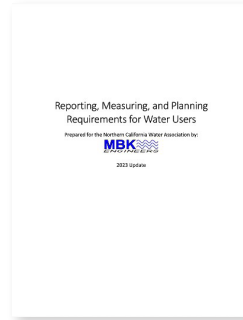
- Nature-Based Solutions: Enlisting Natural and Working Lands in the Sacramento River Basin in the Fight Against Climate Change
- Ensuring High Quality Water in the Sacramento River Basin for Communities, Ecosystems, and Farms
- Freshwater Ecosystem Budgets in the Sacramento River Basin





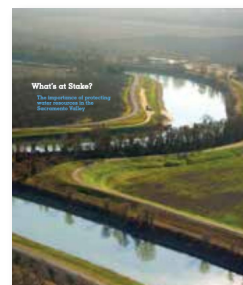
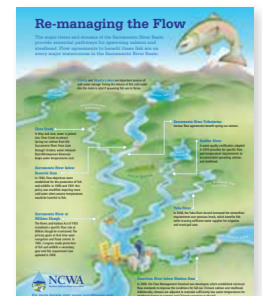
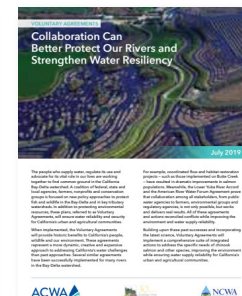
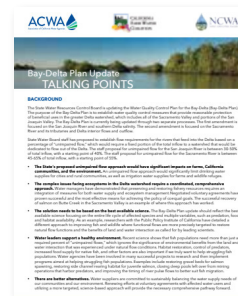
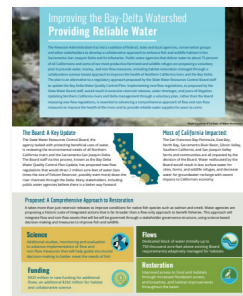
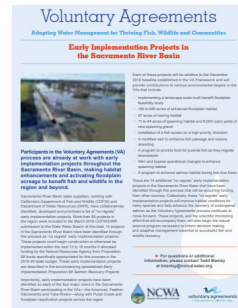
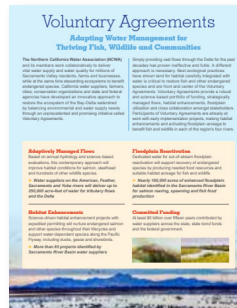
# Ridgetop to River Mouth Water Management for Multiple Benefits (Continued)

- Reporting, Measuring, and Planning Requirements for Water Users
- Reporting, Measuring, and Planning Requirements for Agricultural Water Users
- Reporting, Measuring, and Planning Requirements for All Water Users
- Video: Managing Water for Multiple Benefits



# Bay-Delta/Voluntary Agreements

- Healthy Rivers California
- Voluntary Agreements - Assets
- Voluntary Agreements - Early Implementation
- Voluntary Agreement - New Way Forward
- Versus: Uncovering Best Solutions for Fish, Wildlife and All Californians
- Improving the Bay-Delta Watershed: Providing Reliable Water
- Bay-Delta Water Quality Control Plan Update: How It Affects Californians
- Bay-Delta Plan Update Taking Points
- Collaboration Can Better Protect Our Rivers and Strengthen Water Resiliency
- Re-managing the Flow
- What's at Stake? The Importance of Protecting Water Resources in the Sacramento Valley







# Sacramento Valley Salmon Recovery Program

- Sacramento Valley Salmon Recovery Program
- 2021 Salmon Snapshot
- Salmon Life Cycle
- Butte Creek Salmon Recovery
- Aiding Salmon in the Upper Sacramento River
- Improving Conditions for Salmon
- Helping Salmon in the Sacramento Valley
- Re-managing the Flow
- Restoring the Salmon Runs: A time for Action
- River Garden Farms Salmon Habitat Restoration Project
- Protecting Fish
- Meridian Farms Water Company
- Natomas Mutual Water Company
- Freshwater Ecosystem Budgets in the Sacramento River Basin
- Bypasses and Fish Habitat
- Fish Food on Floodplain Farm Fields

**Sacramento Valley Salmon Recovery Program**

Local water management entities, conservation organizations and state and federal agencies have joined forces to create the Sacramento Valley Salmon Recovery Program, a collaborative effort to restore salmon populations and improve habitat in the Sacramento River Basin. This poster highlights the program's goals and the actions being implemented to support the National Marine Fisheries Service's recovery plan for the Sacramento River and the California National Resources Agency's sustainable young salmon farming strategy.

**Local water management entities, conservation organizations and state and federal agencies have joined forces to create the Sacramento Valley Salmon Recovery Program, a collaborative effort to restore salmon populations and improve habitat in the Sacramento River Basin. This poster highlights the program's goals and the actions being implemented to support the National Marine Fisheries Service's recovery plan for the Sacramento River and the California National Resources Agency's sustainable young salmon farming strategy.**

**2021 Salmon Snapshot**

Seeing the Whole Picture

A look at the entire salmon life cycle and the various factors that affect it at each stage in the Sacramento River.

Despite tremendous challenges and hardships, nature continues to demonstrate that they are a resilient species. This is a testament to the fact that there are still salmon in the Sacramento River. However, the challenges are still there, and we must continue to work together to ensure that the next generation of salmon is healthy and resilient.

**14,300** total estimated Chinook returned to spawn  
**12** years  
**215** to 1,122  
**2018** to **7,425**  
**2019** to **2021** total  
**75%** healthy

**Whitely 2%** of the returning 2021 chinook were **79%** from hatcheries. **21%** were from the wild. **79%** were from the wild. **21%** were from hatcheries.

**Spent three years** in the hatchery before returning to their natural habitat.

**SALMON LIFE CYCLE**

A circular diagram showing the stages of a salmon's life cycle: 1. Spawning & Egg, 2. Alevin, 3. Fry, 4. Puffball, 5. Smolt, 6. Ocean Rearing, 7. Adult Return.

**BUTTE CREEK SALMON RECOVERY**

A Lesson in Functional Flows

Butte Creek is a tributary of the Sacramento River. The Butte Creek Salmon Recovery Project is a collaborative effort to restore salmon populations and improve habitat in the Butte Creek watershed. This poster highlights the project's goals and the actions being implemented to support the National Marine Fisheries Service's recovery plan for the Sacramento River and the California National Resources Agency's sustainable young salmon farming strategy.

**Aiding Salmon in the Upper Sacramento River**

How various and diverse projects are working together to support salmon populations in the Upper Sacramento River.

**Support in the Upper River:**

The Upper Sacramento River is a critical habitat for salmon. The Sacramento River Salmon Recovery Program is a collaborative effort to restore salmon populations and improve habitat in the Upper Sacramento River. This poster highlights the program's goals and the actions being implemented to support the National Marine Fisheries Service's recovery plan for the Sacramento River and the California National Resources Agency's sustainable young salmon farming strategy.

**Sacramento River Basin Improving Conditions for Salmon**

The Sacramento River Basin is a critical habitat for salmon. The Sacramento River Basin Salmon Recovery Program is a collaborative effort to restore salmon populations and improve habitat in the Sacramento River Basin. This poster highlights the program's goals and the actions being implemented to support the National Marine Fisheries Service's recovery plan for the Sacramento River and the California National Resources Agency's sustainable young salmon farming strategy.

**HELPING SALMON IN THE SACRAMENTO VALLEY**

California River

California River is a critical habitat for salmon. The California River Salmon Recovery Program is a collaborative effort to restore salmon populations and improve habitat in the California River. This poster highlights the program's goals and the actions being implemented to support the National Marine Fisheries Service's recovery plan for the Sacramento River and the California National Resources Agency's sustainable young salmon farming strategy.

**Re-managing the Flow**

Re-managing the flow of water in the Sacramento River Basin is a critical step in restoring salmon populations and improving habitat. This poster highlights the program's goals and the actions being implemented to support the National Marine Fisheries Service's recovery plan for the Sacramento River and the California National Resources Agency's sustainable young salmon farming strategy.

**Restoring the Salmon Runs - a Time for Action**

Restoring the salmon runs in the Sacramento River Basin is a critical step in restoring salmon populations and improving habitat. This poster highlights the program's goals and the actions being implemented to support the National Marine Fisheries Service's recovery plan for the Sacramento River and the California National Resources Agency's sustainable young salmon farming strategy.

**River Garden Farms Salmon Habitat Restoration Project**

The River Garden Farms Salmon Habitat Restoration Project is a collaborative effort to restore salmon populations and improve habitat in the River Garden Farms area. This poster highlights the project's goals and the actions being implemented to support the National Marine Fisheries Service's recovery plan for the Sacramento River and the California National Resources Agency's sustainable young salmon farming strategy.

**Protecting Fish**

Protecting fish populations in the Sacramento River Basin is a critical step in restoring salmon populations and improving habitat. This poster highlights the program's goals and the actions being implemented to support the National Marine Fisheries Service's recovery plan for the Sacramento River and the California National Resources Agency's sustainable young salmon farming strategy.

**MERIDIAN FARMS WATER COMPANY**

Meridian Farms Water Company is a critical partner in the Sacramento Valley Salmon Recovery Program. This poster highlights the company's commitment to supporting the program's goals and the actions being implemented to support the National Marine Fisheries Service's recovery plan for the Sacramento River and the California National Resources Agency's sustainable young salmon farming strategy.

**NATOMAS CENTRAL MUTUAL WATER COMPANY**

Natomas Central Mutual Water Company is a critical partner in the Sacramento Valley Salmon Recovery Program. This poster highlights the company's commitment to supporting the program's goals and the actions being implemented to support the National Marine Fisheries Service's recovery plan for the Sacramento River and the California National Resources Agency's sustainable young salmon farming strategy.

**Freshwater Ecosystem Budgets in the Sacramento River Basin**

Managing freshwater ecosystem budgets in the Sacramento River Basin is a critical step in restoring salmon populations and improving habitat. This poster highlights the program's goals and the actions being implemented to support the National Marine Fisheries Service's recovery plan for the Sacramento River and the California National Resources Agency's sustainable young salmon farming strategy.

**Bypasses and Fish Habitat**

Managing bypasses and fish habitat in the Sacramento River Basin is a critical step in restoring salmon populations and improving habitat. This poster highlights the program's goals and the actions being implemented to support the National Marine Fisheries Service's recovery plan for the Sacramento River and the California National Resources Agency's sustainable young salmon farming strategy.

**Fish Food on Floodplain Farm Fields**

Managing fish food on floodplain farm fields in the Sacramento River Basin is a critical step in restoring salmon populations and improving habitat. This poster highlights the program's goals and the actions being implemented to support the National Marine Fisheries Service's recovery plan for the Sacramento River and the California National Resources Agency's sustainable young salmon farming strategy.

# Pacific Flyway

- Central Valley Refuge Needs
- A Freshwater Ecosystem Budget for Birds and the Pacific Flyway
- Pacific Flyway Habitat in the Sacramento Valley
- Centerpiece of the Pacific Flyway
- Wetland Areas and Rice Fields in the Sacramento Valley of California
- The Sacramento Valley and Waterfowl
- Why Spring Diversions on the Sacramento River Are Important to Serve Multiple Benefits

### Central Valley Refuge Needs

April 2011

There are two main types of refuges available in the Central Valley: waterfowl refuges and wildlife refuges. Waterfowl refuges are managed by the U.S. Fish and Wildlife Service and provide habitat for waterfowl and other migratory birds. Wildlife refuges are managed by the California State Parks and provide habitat for a wide variety of wildlife.

**North of Delta**

The Sacramento-San Joaquin River Delta is a critical habitat for many species of birds, including waterfowl. The Delta is a complex of waterways, wetlands, and islands that provide a rich and diverse environment for wildlife.

**Sacramento River**

The Sacramento River is a major waterway in the Sacramento Valley and provides habitat for many species of birds. The river is a complex of waterways, wetlands, and islands that provide a rich and diverse environment for wildlife.

**Delta**

The Delta is a complex of waterways, wetlands, and islands that provide a rich and diverse environment for wildlife. The Delta is a critical habitat for many species of birds, including waterfowl.

### A Freshwater Ecosystem Budget for Birds and the Pacific Flyway

Sacramento River Basin

January 2010

Ready for the Pacific Flyway, here we have a budget for the Pacific Flyway. This budget is a tool for understanding the needs of the Pacific Flyway and for developing strategies to meet those needs.

**THE PACIFIC FLYWAY ECOSYSTEM**

The Pacific Flyway is a critical habitat for many species of birds, including waterfowl. The flyway is a complex of waterways, wetlands, and islands that provide a rich and diverse environment for wildlife.

### Pacific Flyway Habitat in the Sacramento Valley

Conservation programs for birds in the Sacramento Valley are critical to the success of the Pacific Flyway. These programs provide habitat for birds and help to ensure the long-term health of the flyway.

**Conservation Programs**

- Wetland Restoration
- Waterfowl Refuge Management
- Wildlife Habitat Conservation

### CENTERPIECE OF THE PACIFIC FLYWAY

Sacramento Valley

The Sacramento Valley is a critical habitat for many species of birds, including waterfowl. The valley is a complex of waterways, wetlands, and islands that provide a rich and diverse environment for wildlife.

**Conservation Programs**

- Wetland Restoration
- Waterfowl Refuge Management
- Wildlife Habitat Conservation



### The Sacramento Valley & Waterfowl

California's Sacramento Valley is a rich and diverse environment for waterfowl. The valley is a complex of waterways, wetlands, and islands that provide a rich and diverse environment for wildlife.

**Waterfowl**

Waterfowl are a critical part of the Pacific Flyway and provide a rich and diverse environment for wildlife. The valley is a complex of waterways, wetlands, and islands that provide a rich and diverse environment for wildlife.

### Why Spring Diversions on the Sacramento River are Important to Serve Multiple Benefits

TCOA

NCWA

Spring diversions on the Sacramento River are important to serve multiple benefits. These diversions provide water for agriculture, industry, and domestic use, while also providing habitat for birds and other wildlife.

**Benefits**

- Providing water for agriculture, industry, and domestic use
- Providing habitat for birds and other wildlife
- Providing water for recreation and other uses

# Sustainable Groundwater

- Sustainable Groundwater Management
- The State of Sacramento Valley Groundwater
- Looking at Groundwater Sustainability through a Local Lens
- Sacramento Valley Groundwater Assessment

### A PATHWAY FOR THE FUTURE: Sustainable Groundwater Management in the Sacramento Valley

March 2012

Sustainable groundwater management is a critical part of the future of the Sacramento Valley. This report provides a pathway for the future and outlines the steps that need to be taken to ensure the long-term health of the valley.

### FACT SHEET: The State of Sacramento Valley Groundwater

NCWA

July 1, 2017

This fact sheet provides a snapshot of the current state of groundwater in the Sacramento Valley. It outlines the challenges that the valley faces and provides a roadmap for the future.

### Looking at Groundwater Sustainability through a Local Lens

Vignettes on Local Groundwater Conditions in the Sacramento Valley: 2017-18

This report provides a local lens on groundwater sustainability in the Sacramento Valley. It outlines the challenges that the valley faces and provides a roadmap for the future.

### Sacramento Valley Groundwater Assessment Active Management - Call to Action

Prepared for Northern California Water Association

June 2014

This report provides a call to action for active management of groundwater in the Sacramento Valley. It outlines the challenges that the valley faces and provides a roadmap for the future.



# Sites Reservoir

- Sites Reservoir Provides Significant Public Benefits and Has Strong Statewide Support
- Sites Reservoir: Increasing Drier Year Supplies
- Sites Reservoir: Water for the Environment
- Building the Sites Reservoir
- Sites Reservoir: Good for California
- Sites Reservoir Project: Offstream Water Storage

**Sites Reservoir Provides Significant Public Benefits and Has Strong Statewide Support**

When California's water supply is stressed, Sites Reservoir provides a critical water supply for the Sacramento River Delta. The reservoir is a key component of the state's water infrastructure and provides a reliable source of water for the Delta's agricultural and urban communities.

**Key Benefits:**

- Provides a reliable source of water for the Delta's agricultural and urban communities.
- Provides a critical water supply for the Sacramento River Delta during dry years.
- Provides a key component of the state's water infrastructure.

**Sites Reservoir - Increasing Drier Year Supplies**

Water scarcity has been a California concern for decades. Sites Reservoir provides a critical water supply for the Sacramento River Delta during dry years. The reservoir is a key component of the state's water infrastructure and provides a reliable source of water for the Delta's agricultural and urban communities.

**Key Facts:**

- Provides a reliable source of water for the Delta's agricultural and urban communities.
- Provides a critical water supply for the Sacramento River Delta during dry years.
- Provides a key component of the state's water infrastructure.

**Sites Reservoir - Water for the Environment**

Water for the environment is a critical component of the state's water infrastructure. Sites Reservoir provides a reliable source of water for the Sacramento River Delta during dry years. The reservoir is a key component of the state's water infrastructure and provides a reliable source of water for the Delta's agricultural and urban communities.

**Key Facts:**

- Provides a reliable source of water for the Delta's agricultural and urban communities.
- Provides a critical water supply for the Sacramento River Delta during dry years.
- Provides a key component of the state's water infrastructure.

**Building the Sites Reservoir - Water for Our Cities, Farms and Wildlife**

Building the Sites Reservoir is a critical component of the state's water infrastructure. The reservoir is a key component of the state's water infrastructure and provides a reliable source of water for the Delta's agricultural and urban communities.

**Key Facts:**

- Provides a reliable source of water for the Delta's agricultural and urban communities.
- Provides a critical water supply for the Sacramento River Delta during dry years.
- Provides a key component of the state's water infrastructure.

**Sites Reservoir: Good for California**

Building Sites Reservoir is critical to a more reliable water supply. The reservoir is a key component of the state's water infrastructure and provides a reliable source of water for the Delta's agricultural and urban communities.

**Key Facts:**

- Provides a reliable source of water for the Delta's agricultural and urban communities.
- Provides a critical water supply for the Sacramento River Delta during dry years.
- Provides a key component of the state's water infrastructure.

**Sites Reservoir Project - Offstream Water Storage**

The Sites Reservoir Project is a critical component of the state's water infrastructure. The reservoir is a key component of the state's water infrastructure and provides a reliable source of water for the Delta's agricultural and urban communities.

**Key Facts:**

- Provides a reliable source of water for the Delta's agricultural and urban communities.
- Provides a critical water supply for the Sacramento River Delta during dry years.
- Provides a key component of the state's water infrastructure.

# Dry Year Planning

- Dry Year Impacts in the Sacramento River Watershed
- Planning for a Dry Year in the North State
- Drought, Flood and Fire: Managing Extreme Events in the Sacramento River Basin

**An Unprecedented Year: Dry Year Impacts in the Sacramento River Watershed**

California is experiencing one of the driest years in its history. The Sacramento River Watershed is facing significant water shortages, which are impacting the state's agricultural and urban communities.

**Key Facts:**

- California is experiencing one of the driest years in its history.
- The Sacramento River Watershed is facing significant water shortages.
- These shortages are impacting the state's agricultural and urban communities.

**Planning for a Dry Year in the North State**

Water supplies throughout the North State have plummeted for dry years in California. This infographic provides a detailed look at the water supply situation in the North State and offers strategies for managing a dry year.

**Key Facts:**

- Water supplies throughout the North State have plummeted.
- This infographic provides a detailed look at the water supply situation.
- It offers strategies for managing a dry year.

**Drought, Flood, and Fire: Managing Extreme Events in the Sacramento River Basin**

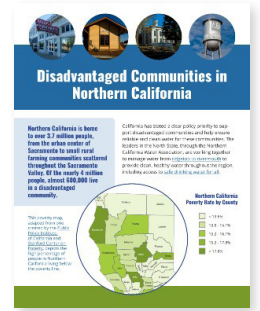
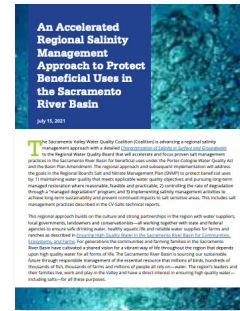
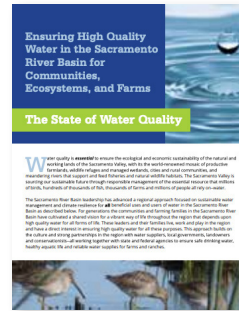
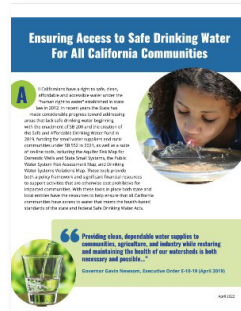
Water management in the Sacramento River Basin has always been defined by dramatic variability in climate and conditions. This infographic provides a detailed look at the challenges of managing extreme events in the Sacramento River Basin and offers strategies for managing these events.

**Key Facts:**

- Water management in the Sacramento River Basin has always been defined by dramatic variability in climate and conditions.
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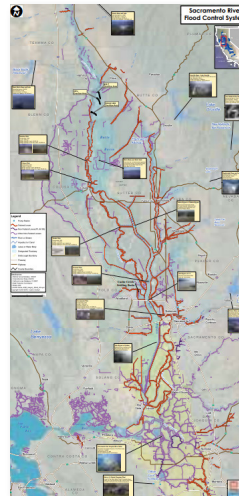
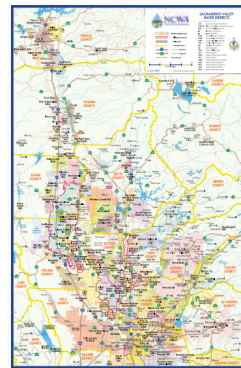
# Drinking Water / Water Quality

- Ensuring Access to Safe Drinking Water for All California Communities
- Ensuring High Quality Water in the Sacramento River Basin for Communities, Ecosystems, and Farms
- An Accelerated Regional Salinity Management Approach to Protect Beneficial Uses in the Sacramento River Basin
- Safe Drinking Water Resources Available
- Disadvantaged Communities in Northern California



# Maps

- Water District Map
- Flood System Map



# NCWA

- Mission Factsheet
- Who We Are Factsheet
- Strategic Planning and 2021 Priorities
- Video: Inspiration for NCWA
- Video: NCWA Generations

