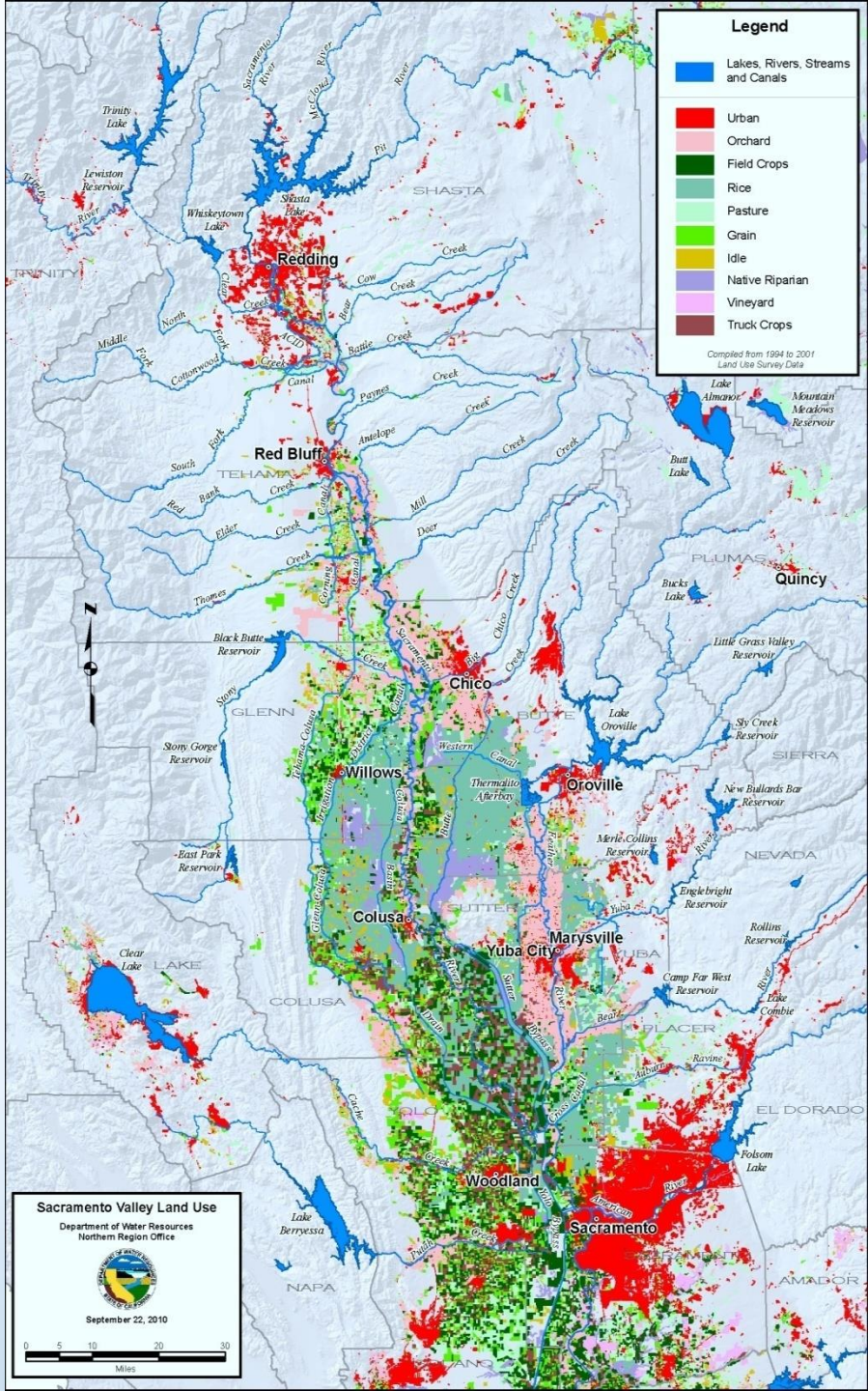
Water Education Foundation

October 21, 2015

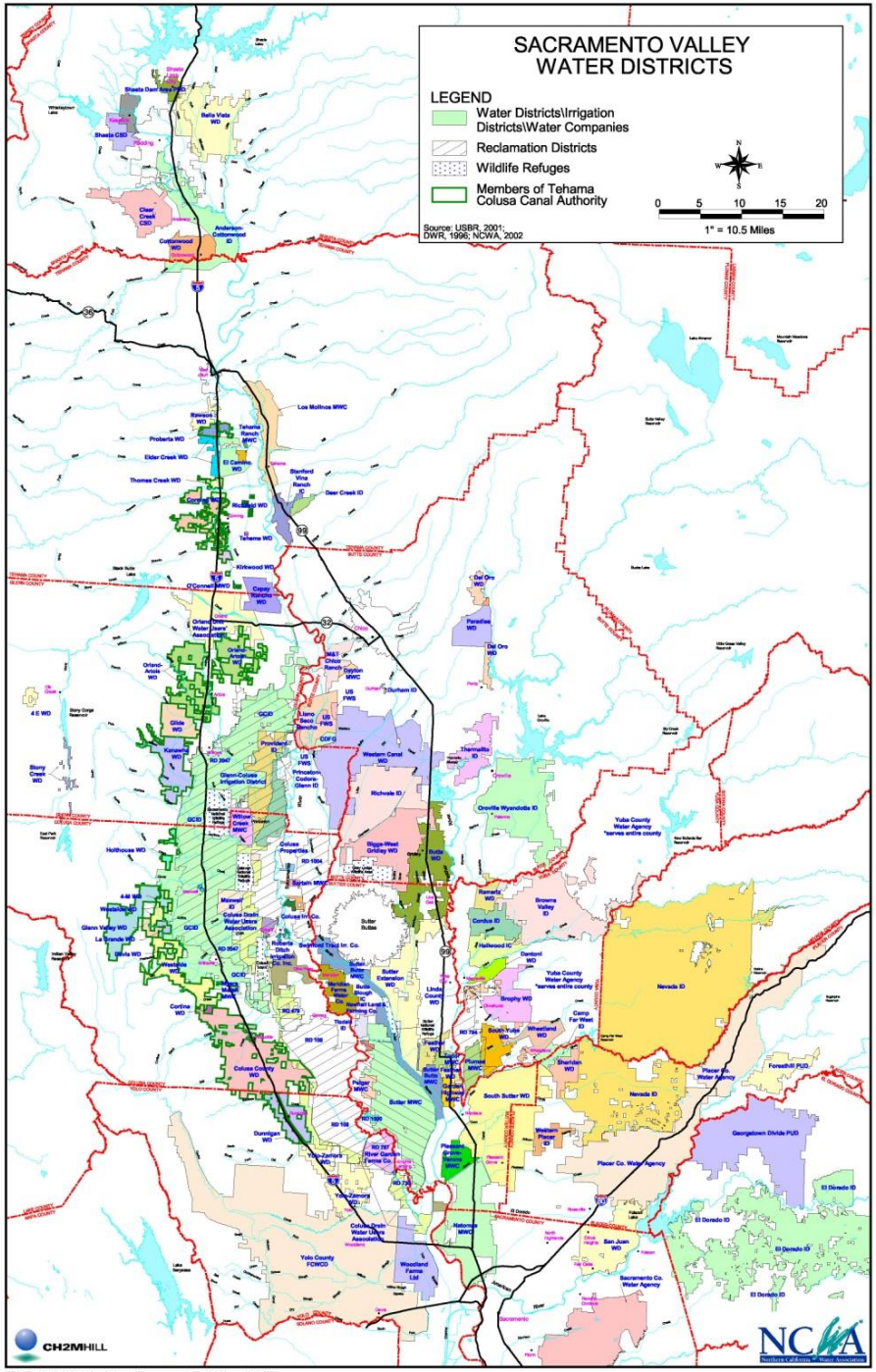
Sacramento Valley –
A truly unique and exceptional place

Sacramento Valley Hydrologic Region – Land Uses

- Urban
- Agriculture
  - — By crop type
- Wetlands



Water Resources Management Entities



Sacramento Valley Sustainability Initiative

Provide a sustainable water supply for the unique mosaic of farm lands, wildlife refuges, managed wetlands and high quality rivers and streams that support waterfowl habitat and spawning grounds for numerous fish species and the cities and rural communities that make up this special region.

Sacramento Valley

Several million acres of **family farms** that provide the economic engine for the region through the production of rice, trees, and various row crops that serve as a working landscape and pastoral setting and provide valuable habitat for waterfowl along the Pacific Flyway.

Sacramento Valley

Habitat for 50% of the *threatened and endangered* species in California, including the winter-run and spring-run salmon, steelhead and many other fish species.

Sacramento Valley

Six 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.

Sacramento Valley

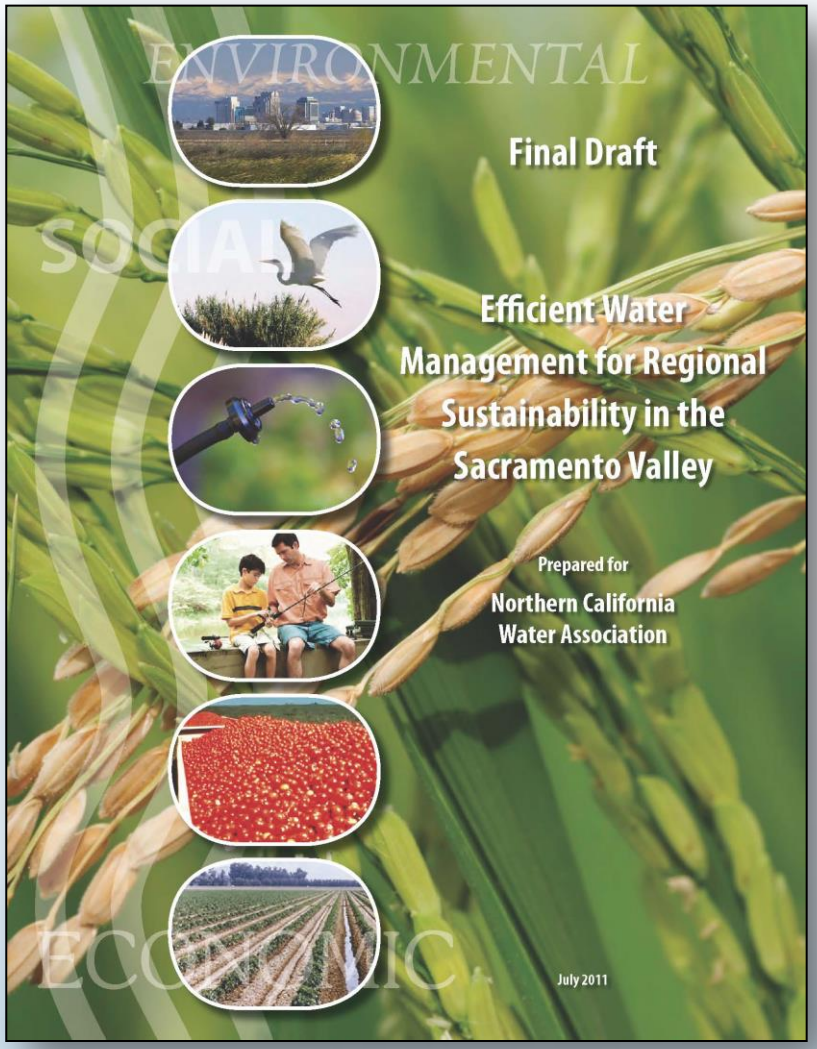
The **small towns and rural communities** that form the backbone of the region, as well as the **State Capital** that serves as the center of government for the State of California.

Sacramento Valley

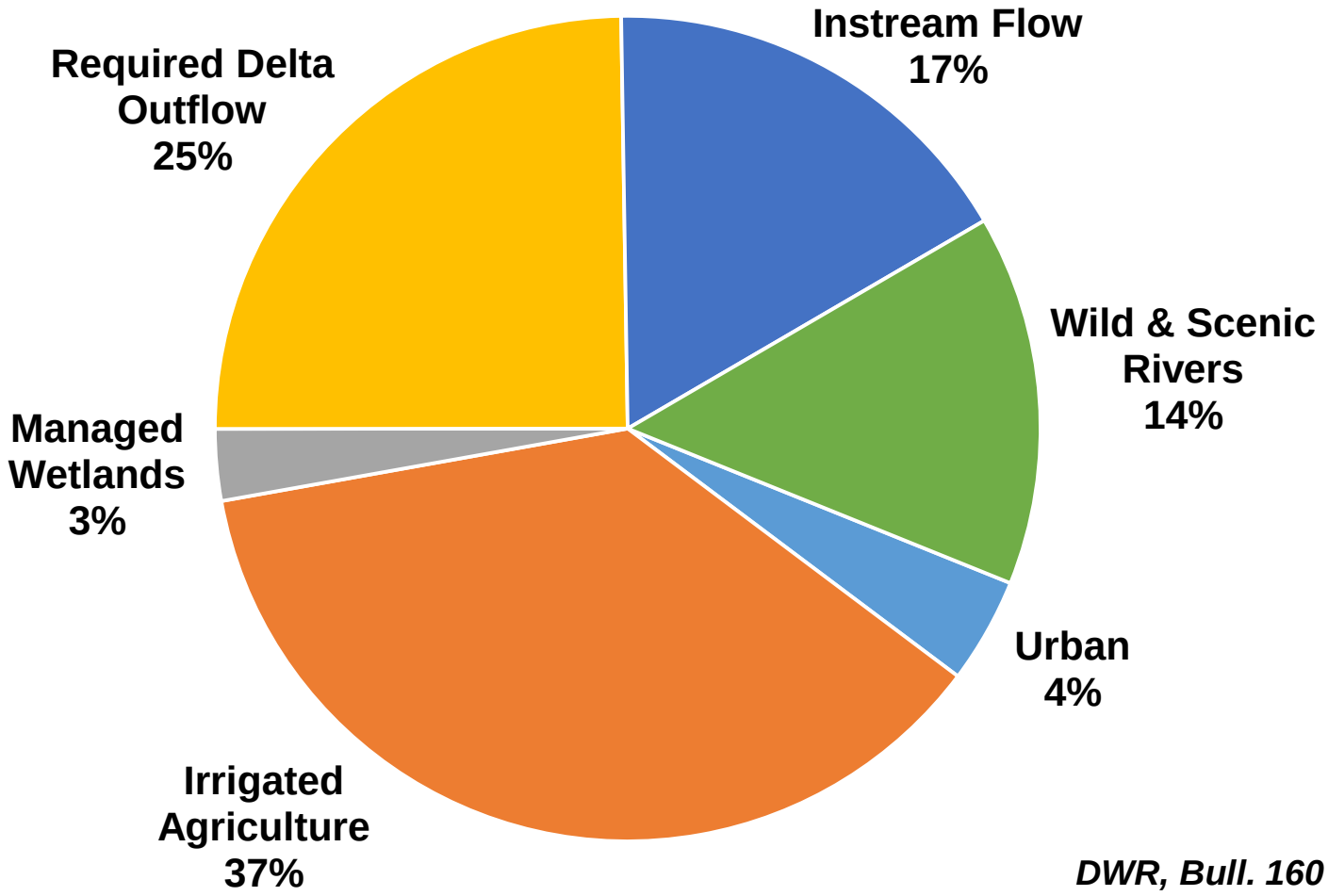
The forests, meadows and canyons in the watersheds of the Sierra Nevada and Coast Range.

Cornerstone for Central Valley/ State Water Projects

The Context for Water Management in the Sacramento Valley

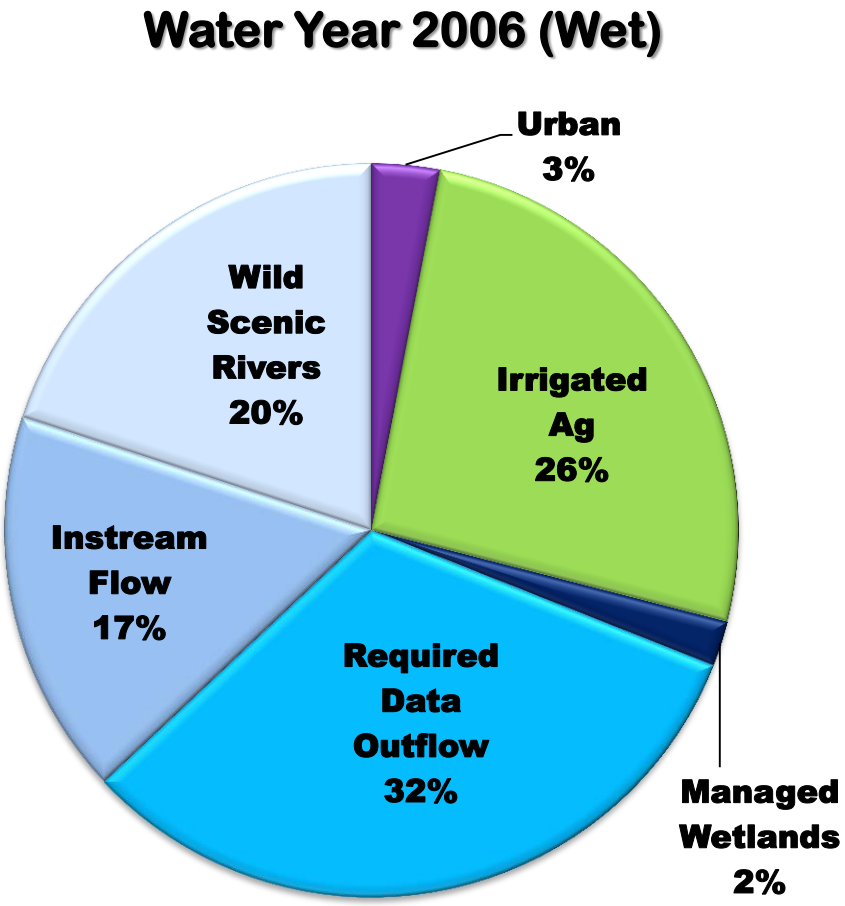


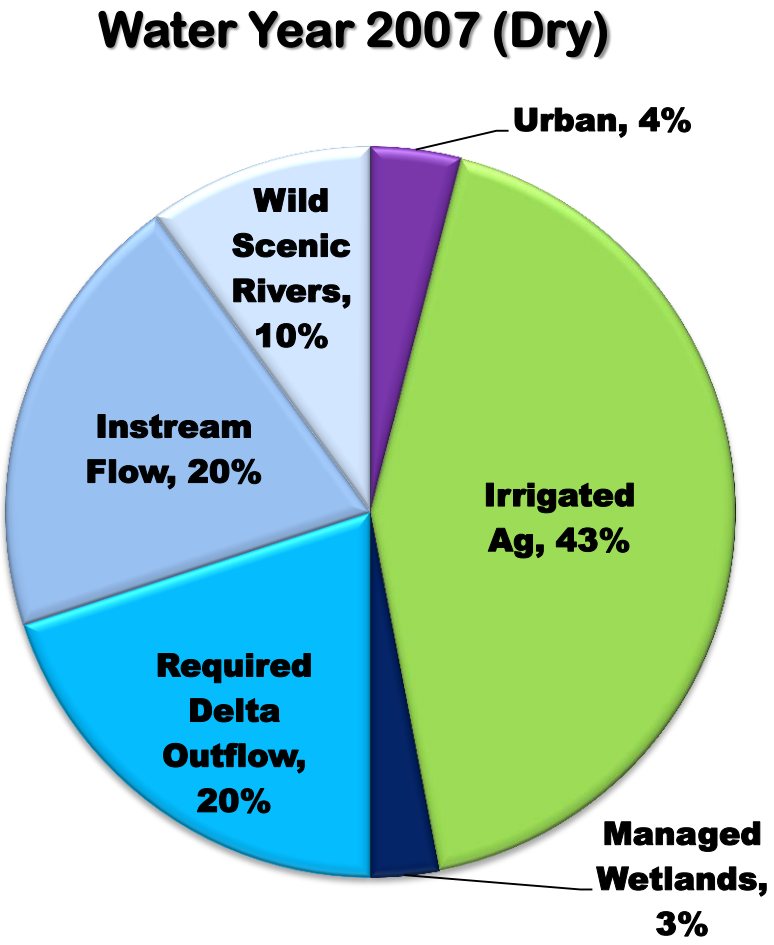
Sacramento River Hydrologic Region Water Use



DWR, Bull. 160

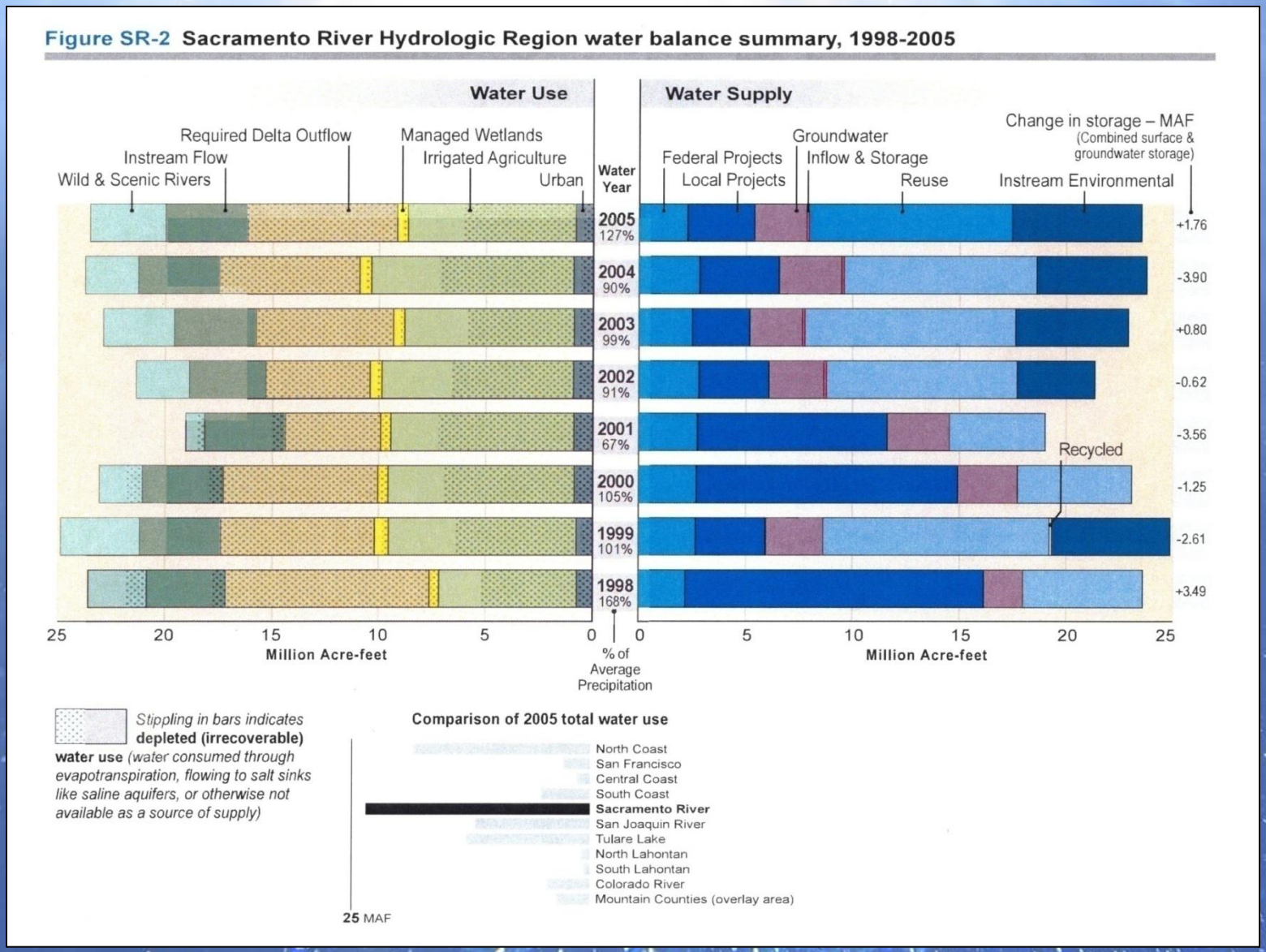
Sacramento Valley Applied Water Use in Wet and Dry Water Years





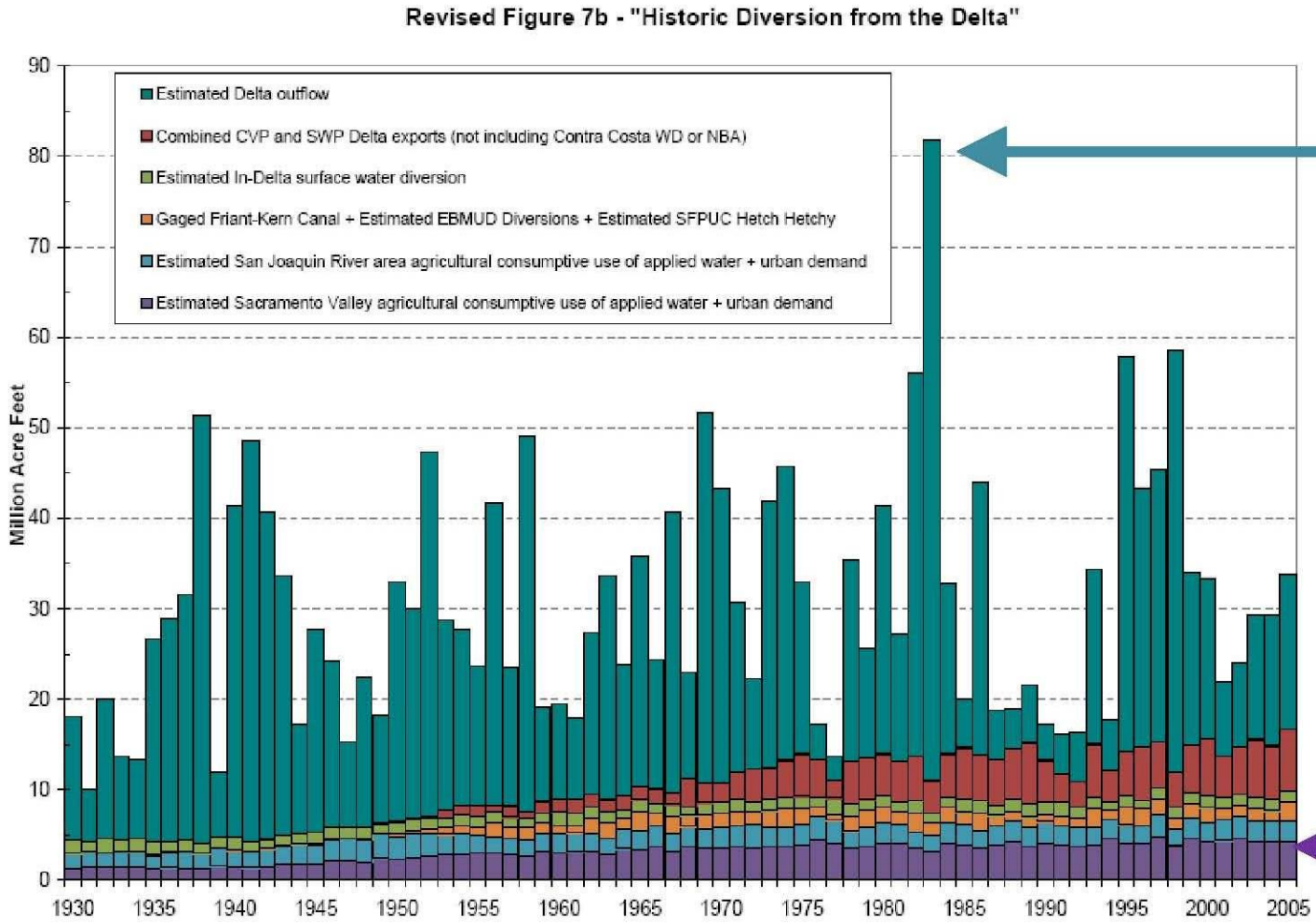
The charts above display applied water use in the Sacramento River Hydrologic Region for wet (2006) and dry (2007) water years. As you would expect, the increase in the percentage of applied water use for urban and irrigated agriculture is attributed to the ability of groundwater and storage to meet these applied water needs. In 2007, net groundwater extraction increased by 483,000 acre-feet and federal project releases increased by 199,000 acre-feet. Instream water supply decreased by 6,713,000 acre-feet from 2006 to 2007 (12,901,000 acre-feet in 2006 and 6,188,000 in 2007).

A Region in Balance?



Stable Sacramento Basin Water Use

Delta Vision Blue Ribbon Task Force (2007):



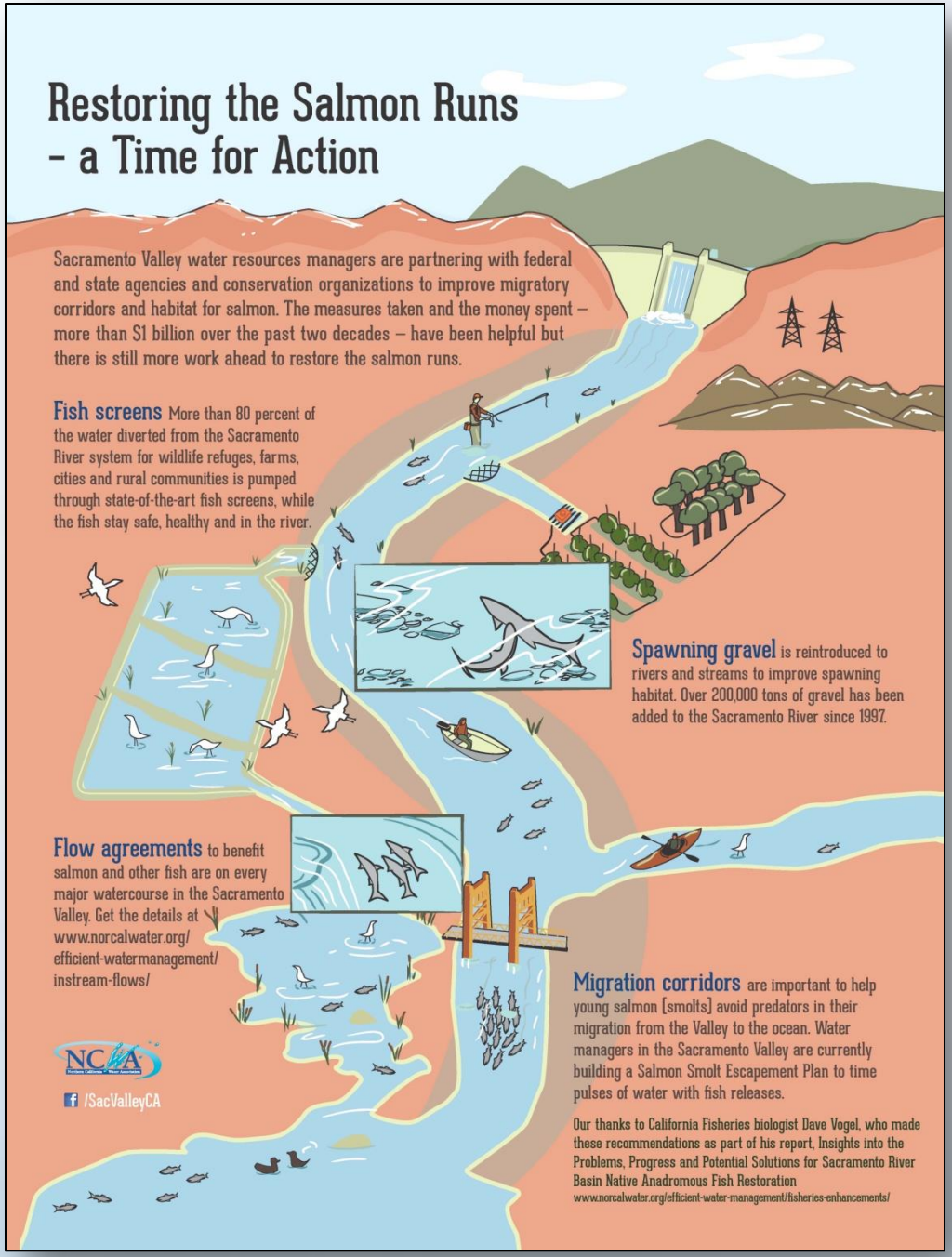
Hydrology is the biggest variable

Sacramento Basin use has been essentially constant since the mid-1970's

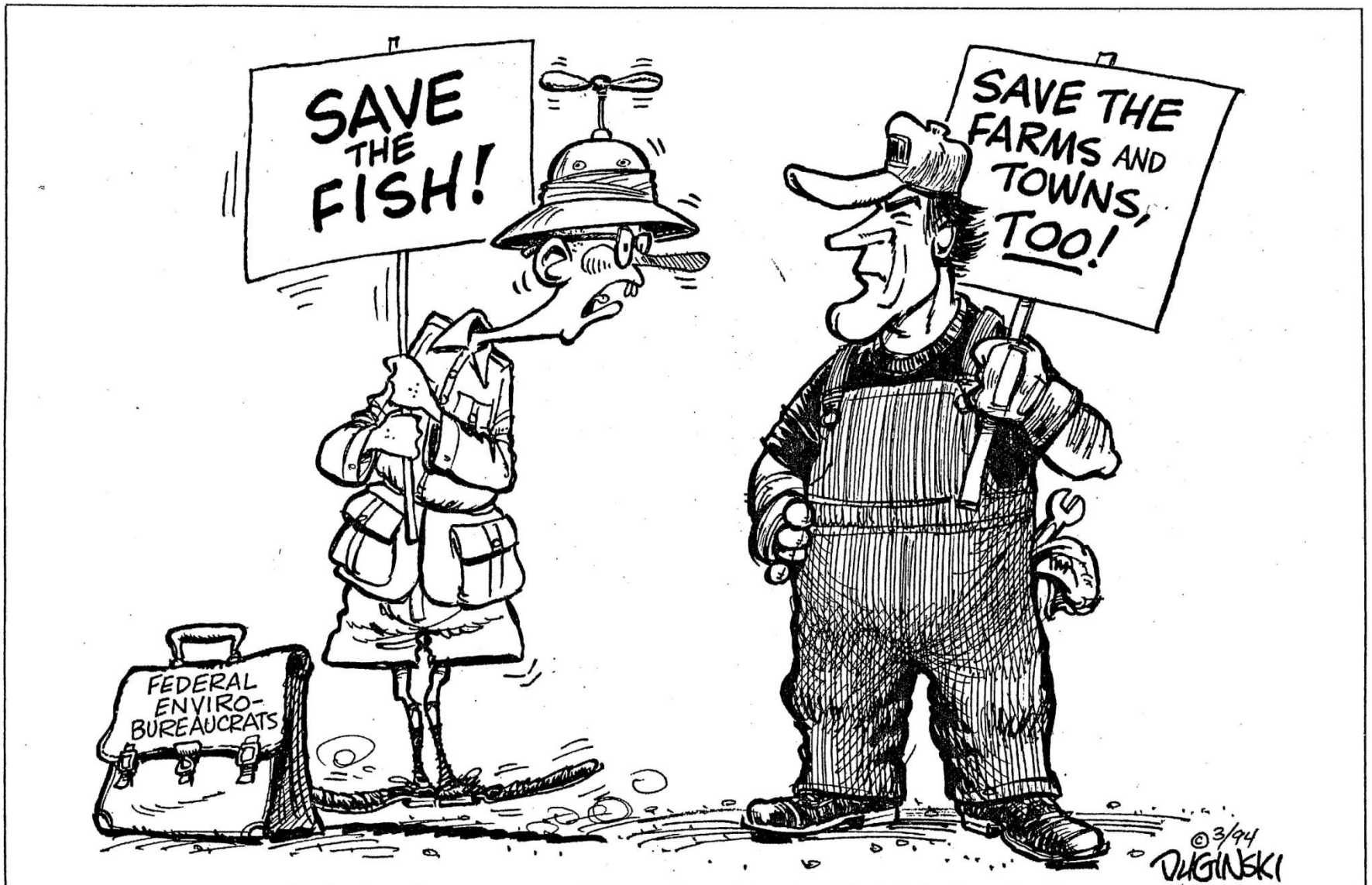
The Context for Water Resources Management Decisions

- Hydrology of the Sacramento Valley – a "flow through" system
- Goal is sustainability
- Better understand trade-offs among beneficial uses
- Only water lost is through consumption
- Timing opportunities - contribute to fish passage, habitat and water quality improvements

Restoring the Salmon Runs

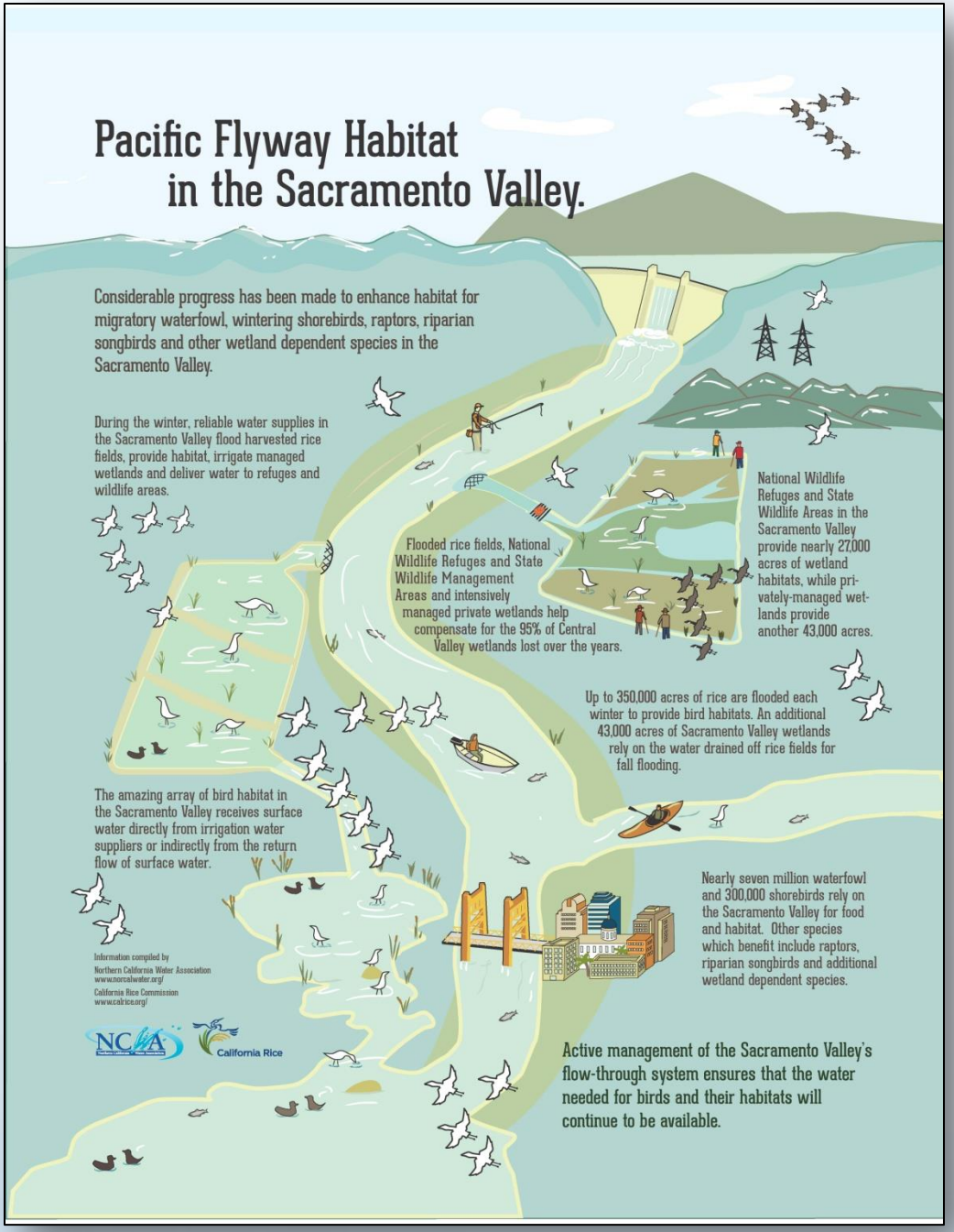


Re-Managing the Flow

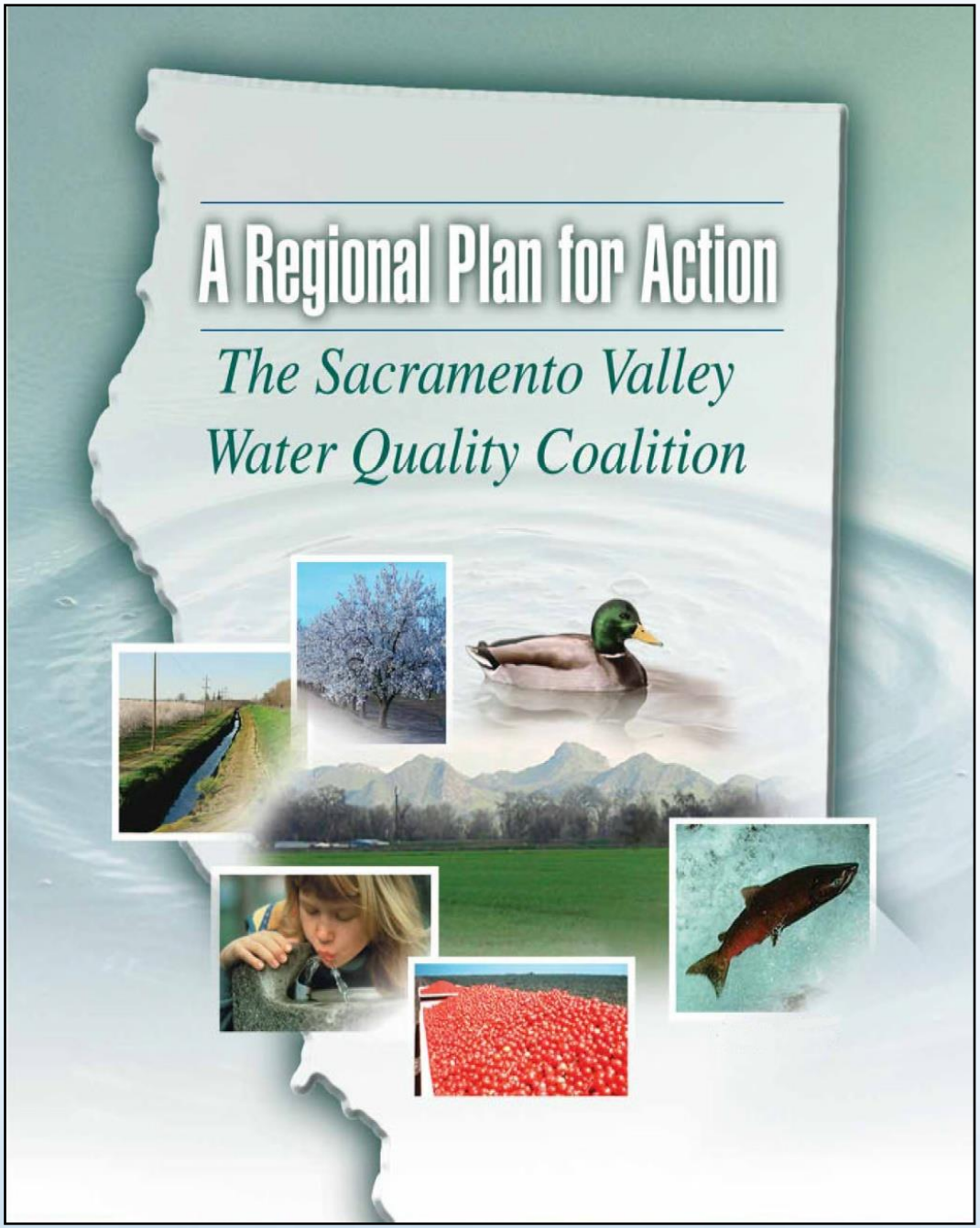


'I do too know something about water! I drink *Perrier*!'

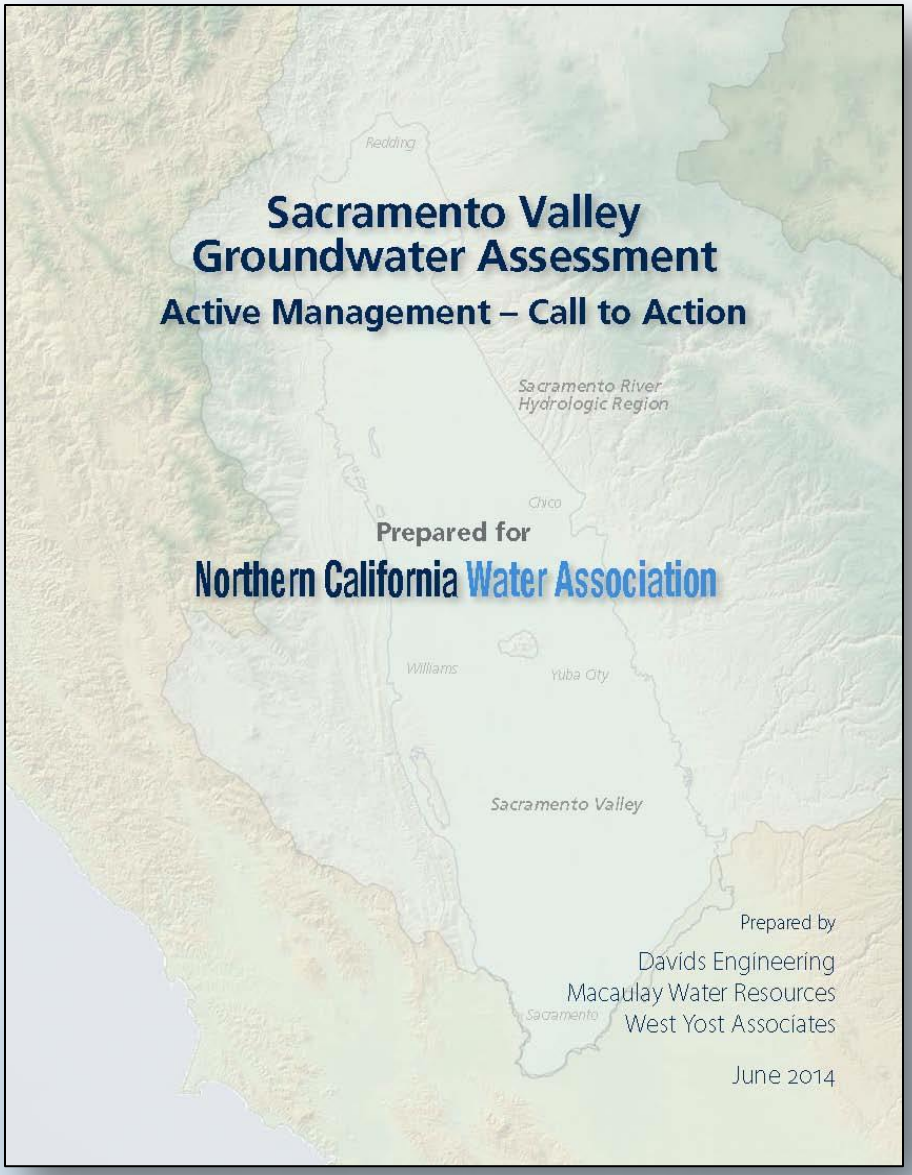
Pacific Flyway Habitat



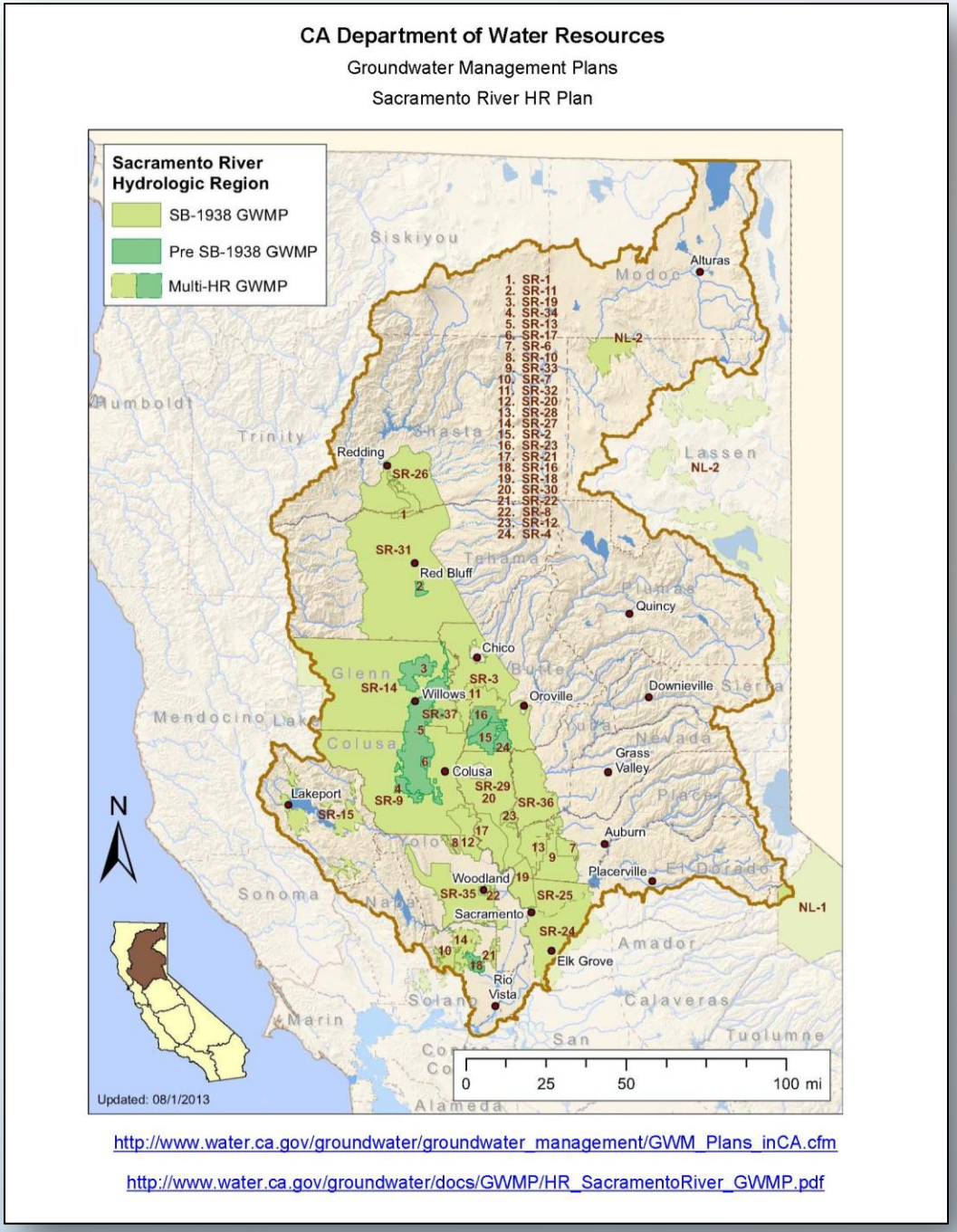
Improving Water Quality



Active Groundwater Management



Local Groundwater Management



http://www.water.ca.gov/groundwater/groundwater_management/GWM_Plans_inCA.cfm

http://www.water.ca.gov/groundwater/docs/GWMP/HR_SacramentoRiver_GWMP.pdf

Sites Reservoir

California Water Security

Vote **YES** on **Prop.1**

Paid for by Sac Valley Water & Rice for Prop 1

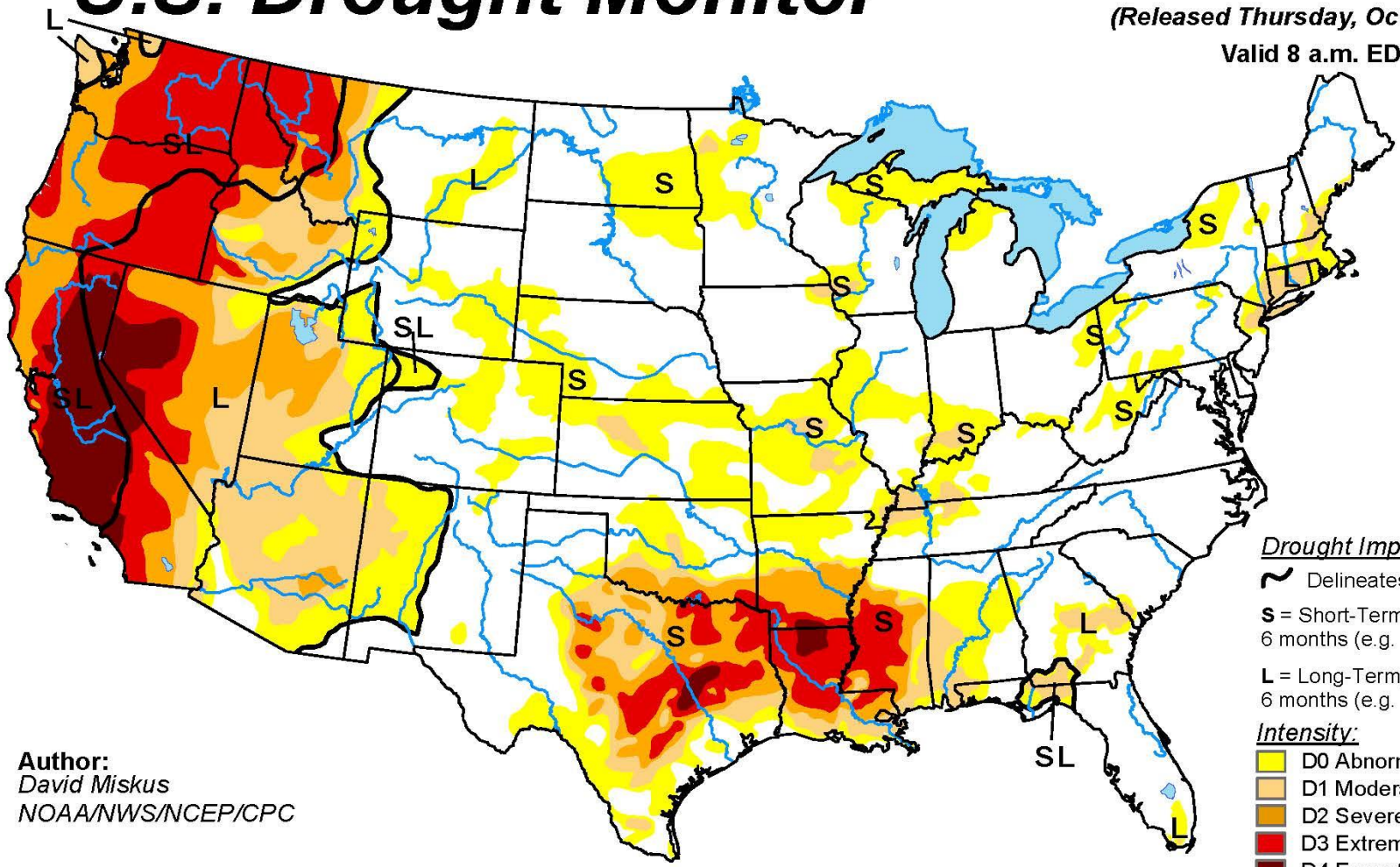
GREENBERG — VENTURA COUNTY STAR '07
www.venturacountystar.com/greenberg
steve@greenberg-art.com

U.S. Drought Monitor

October 13, 2015

(Released Thursday, Oct. 15, 2015)

Valid 8 a.m. EDT



Author:
David Miskus
NOAA/NWS/NCEP/CPC

Drought Impact Types:

~ Delineates dominant impacts

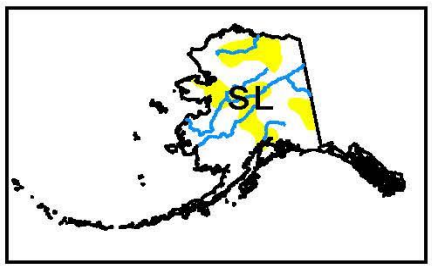
S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)

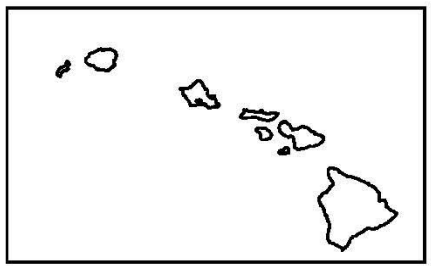
L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

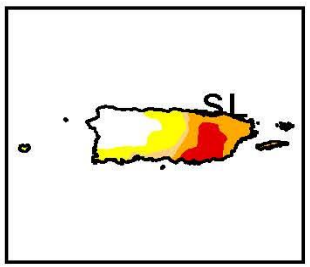
Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



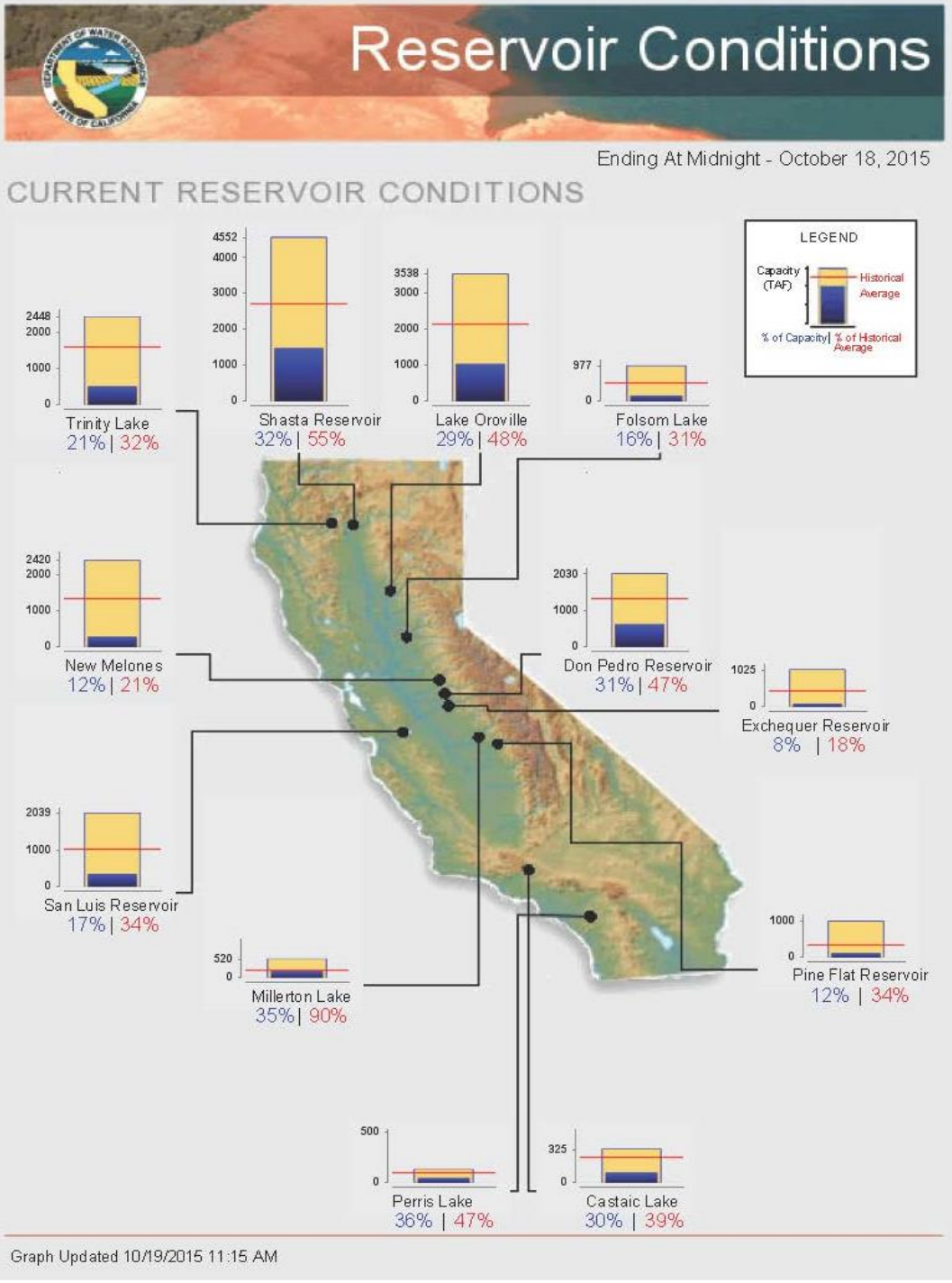




USDA National Drought Mitigation Center

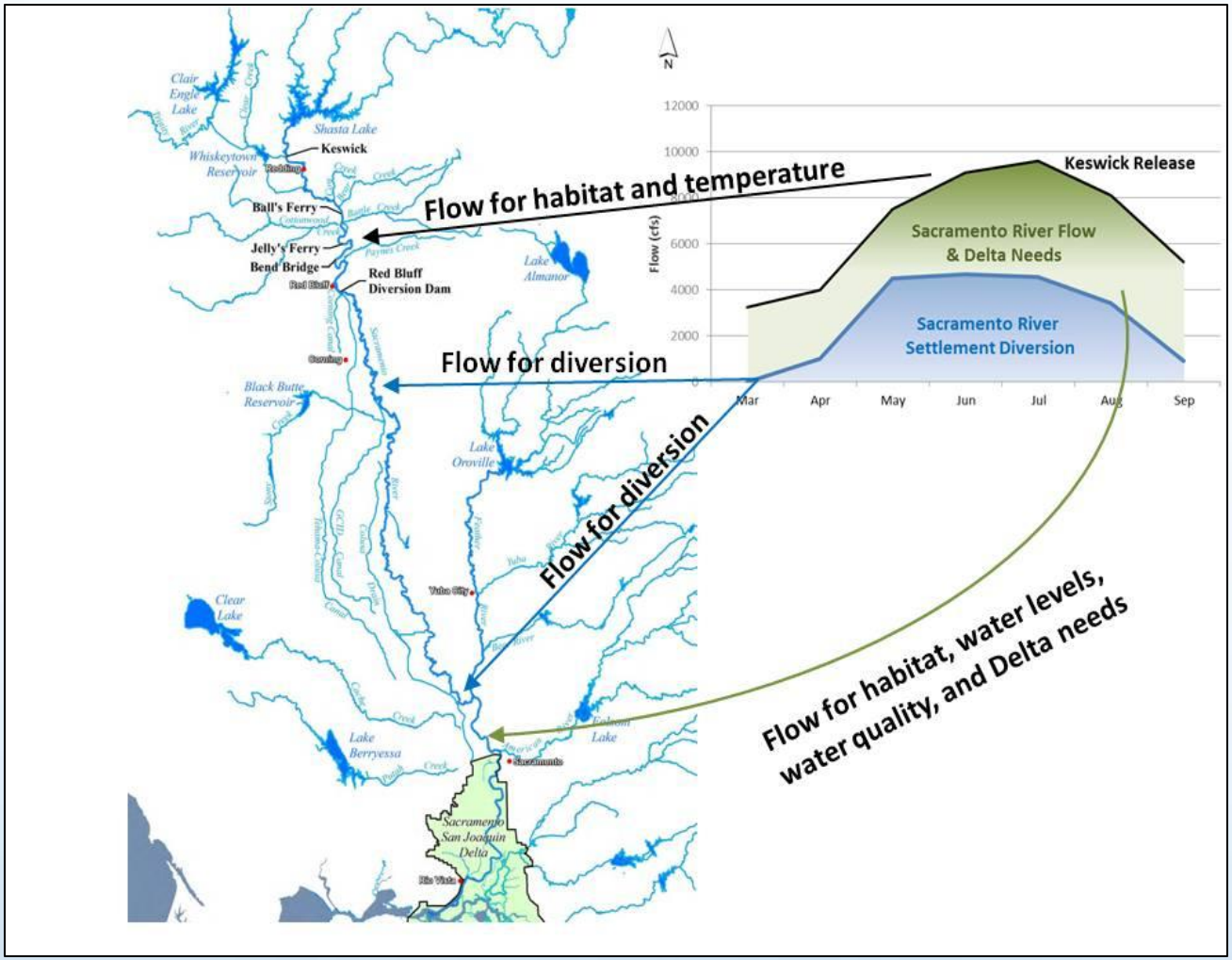
http://droughtmonitor.unl.edu/

Current Reservoir Conditions



Surface Water Allocations

Water Serving Triple Duty in the Sacramento Valley



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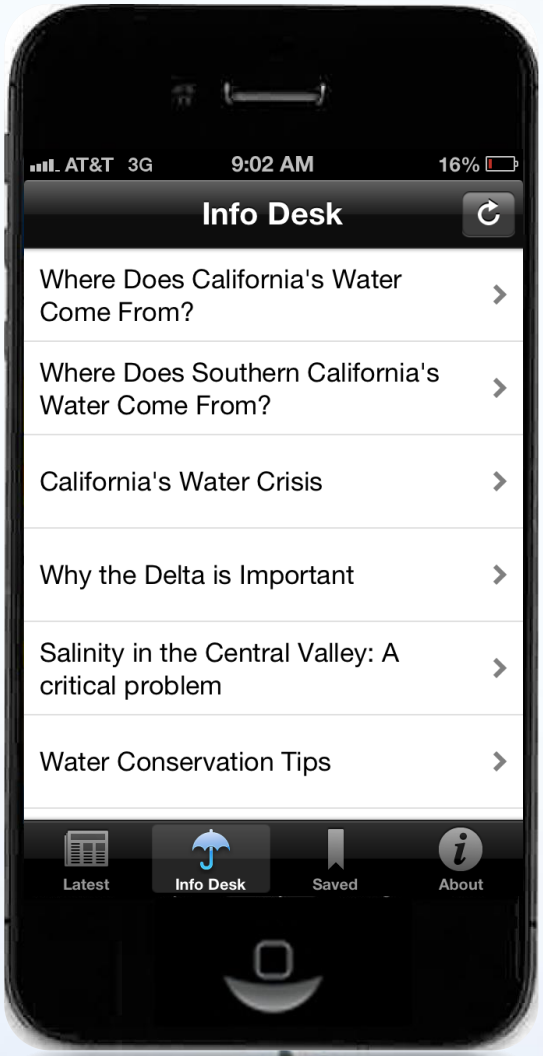
Aquafornia

AQUAFORNIA
The California Water News Blog

www.aquafornia.com



Voices from the Valley

www.norcalwater.org

Blogs from the Valley

NCWA Honors

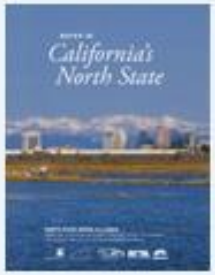
At NCWA's 20th Annual Meeting Joe Scalmamani and George Basye were honored with the Innovative Water Management Water Award and the Will S. Green Award.

Visit the Blogs »

Featured Items

Water Conservation & Efficiency in the Sac Valley: Active Water Resources Management in a Flow-Through System.

DOWNLOAD »



Water in California's North State

For more information please visit northstatewater.org

DOWNLOAD »

David Guy's Blog

This blog explores the intersection between water, food and the environment — with a focus on the increasing challenges facing California and our efforts to manage and preserve our natural resources for present and future generations.

MORE »

California Rice

AQUAFORNIA
The California Water News Blog
by the Water Education Foundation

Think about…

- Special nature of the region
- Highly managed system
- Integrated nature of system
- Operation of CVP/SWP
- Are we in balance?
- Partnerships
- Creativity within legal framework
- Passion for the region