



# WATER IN SOUTH ORANGE COUNTY

## A CHANGING LANDSCAPE

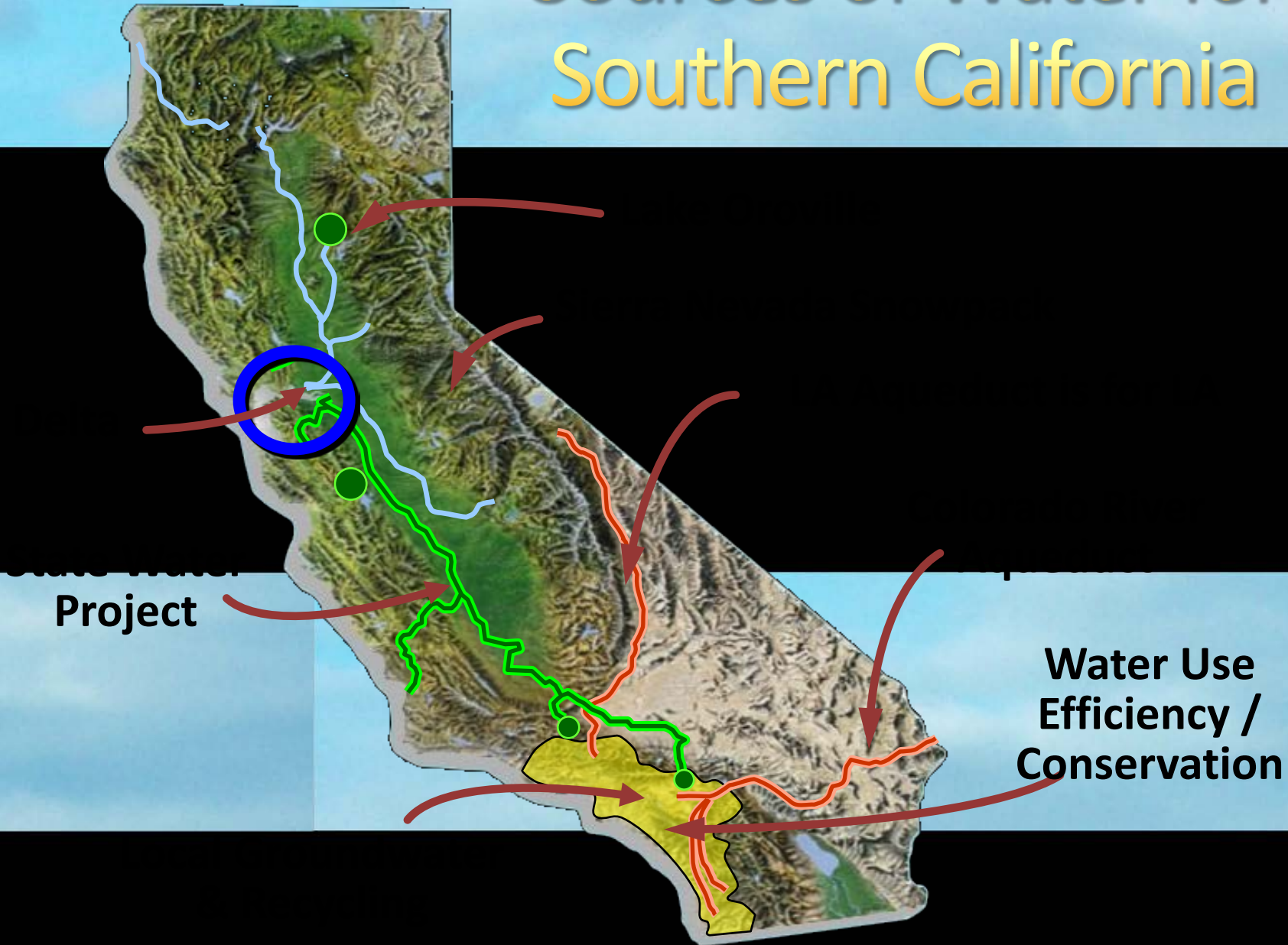


Keith Van Der Maaten, PE  
City of San Juan Capistrano  
Public Works and Utilities Director

# OVERVIEW

- 
- OUR WATER SUPPLY SOURCES
  - CURRENT WATER SUPPLY CONDITIONS
  - ACTIONS TO IMPROVE OUR WATER SUPPLY  
(QUANTITY AND QUALITY)

# Sources of Water for Southern California



# What's our Current Condition?

- California's water supplies continue to be severely depleted (limited snowpack, low reservoir levels)
- Drought conditions have persisted for the last three years
- Actions are needed to reduce the harmful impacts from the drought as the state heads into several months of typically dry conditions
- The duration of the drought is unknown

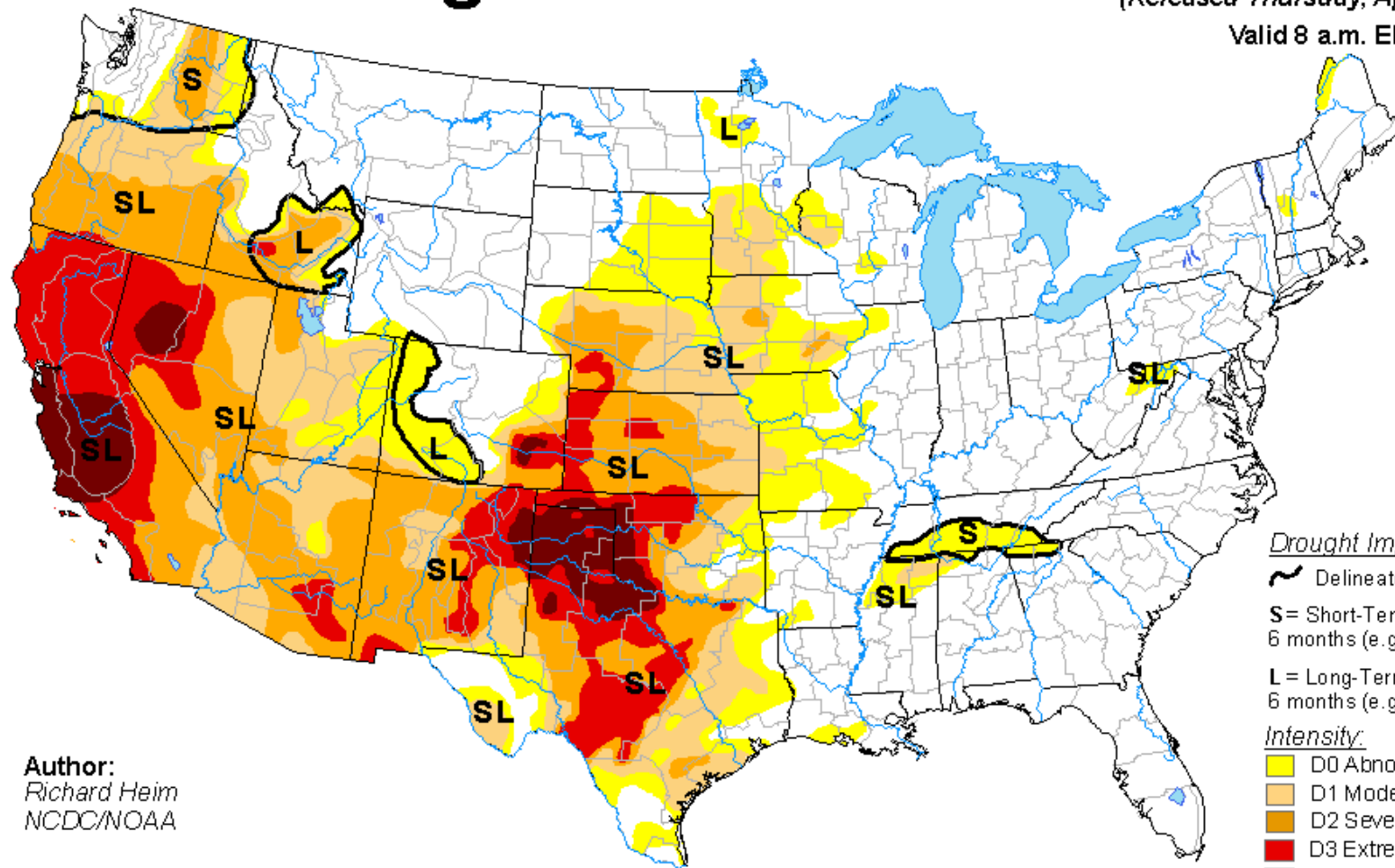


# U.S. Drought Monitor

April 22, 2014

(Released Thursday, Apr. 24, 2014)

Valid 8 a.m. EDT



Author:  
Richard Heim  
NCDC/NOAA

## 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:

Yellow D0 Abnormally Dry

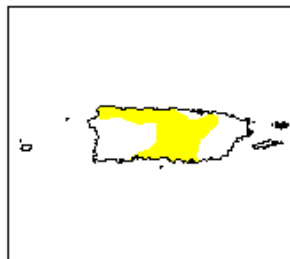
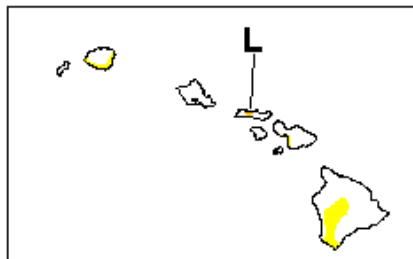
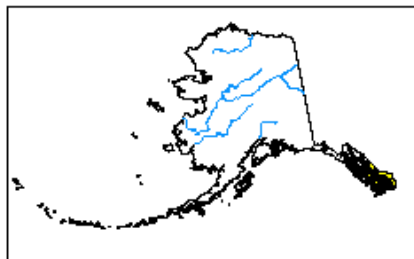
Light Orange D1 Moderate Drought

Dark Orange D2 Severe Drought

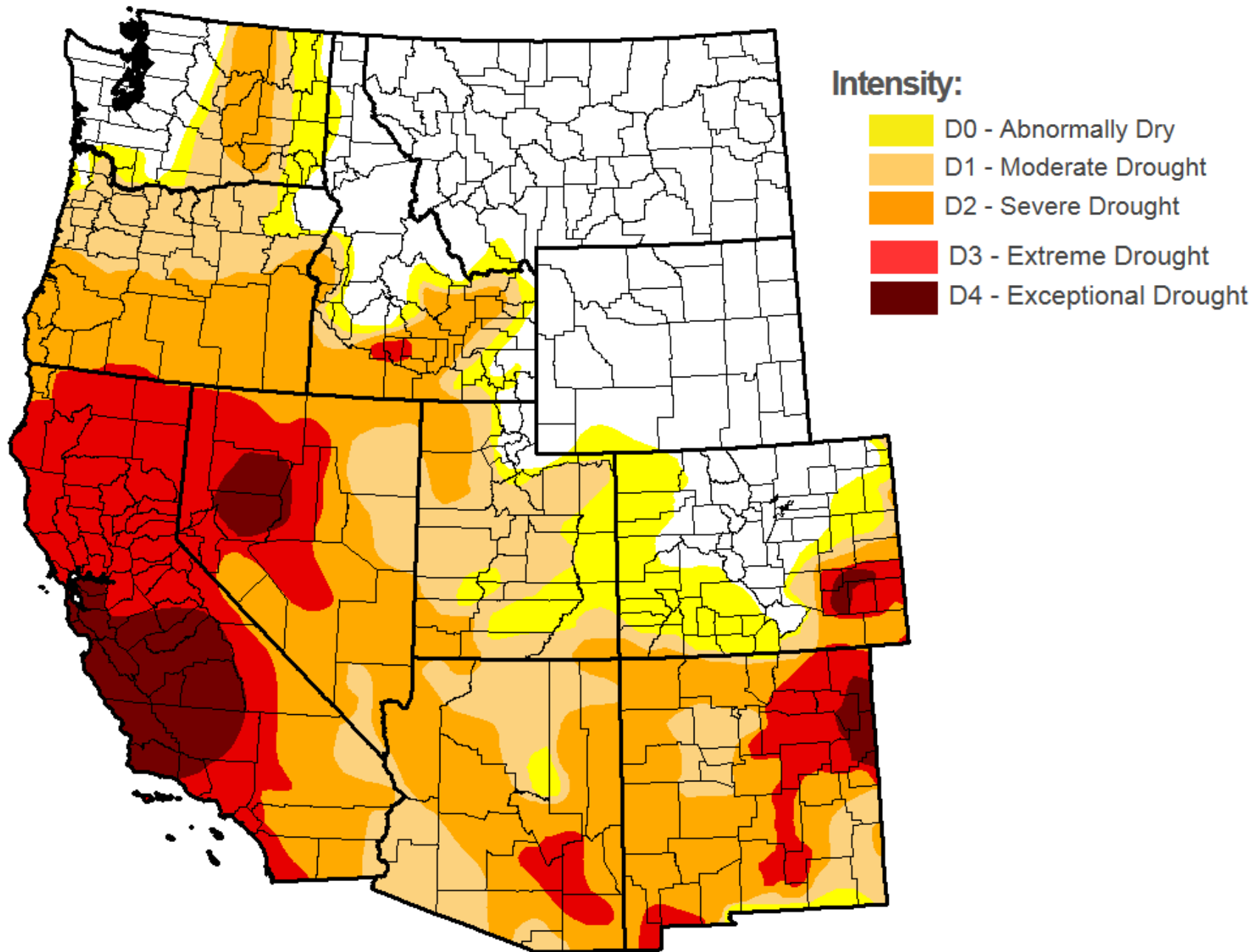
Red D3 Extreme Drought

Dark Red D4 Exceptional Drought

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



<http://droughtmonitor.unl.edu/>





# Governor's Drought Proclamations

- 
- January 17, 2014: Emergency Drought Declaration
    - Call for 20% reduction in use statewide
  - April 25, 2014: New Emergency Drought Declaration
    - Residents refrain from wasting water (e.g. watering sidewalks)
    - Parks, Sports Fields, Golf Courses reduce potable water use



# What are the Options?

- 
- Waste less (improve efficiencies)
  - Use less (increase conservation)
  - Increase local supplies
    - Recycling (reuse)
    - Groundwater
    - Desalination
      - Additional (new) supplies get more expensive



# Why is this Topic Important ?

(what is the value of water)

- Life and Health
- Environment

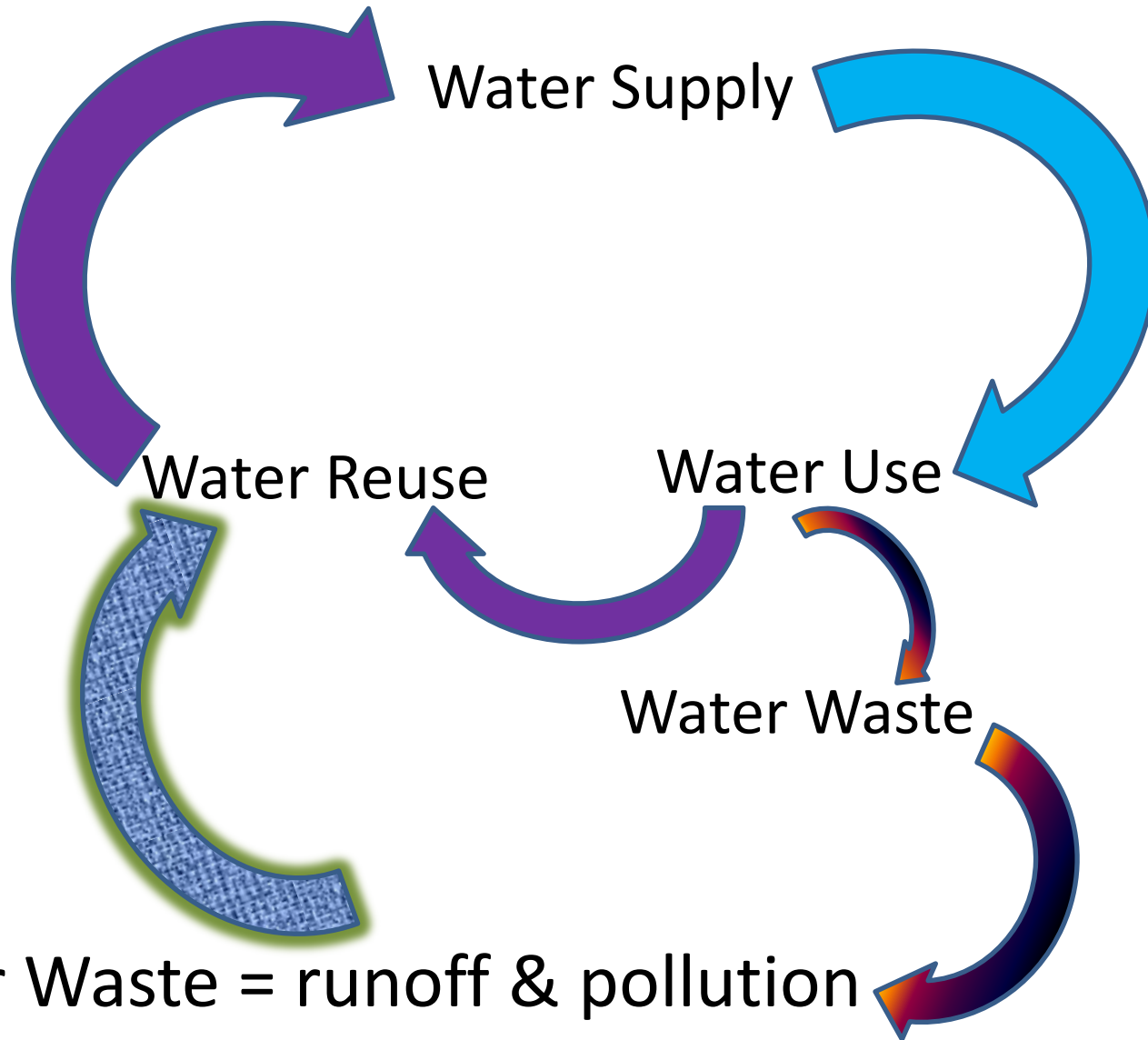
- Economy
- Recreation



# Waste = Runoff



# A New Water Cycle



Water Waste = runoff & pollution



# Actions (What can be done?)

- 
- **Install California Friendly Landscaping**
    - Jodie Cook, G3, [Green Gardens Group](#)
  - **Improve Water Use Efficiency**
    - Melissa Baum-Haley, Municipal Water District of Orange County
  - **Increase Recycled Water Use**
    - Andrew Kanzler, Water Conservation Analyst, City of San Clemente
  - **Manage Runoff and Overwatering**
    - New Regulations, Ziad Mazboudi, Senior Civil Engineer, City of San Juan Capistrano
    - Vector Management, Jared Dever, Director of Communication, OC Vector Control District
    - Integrated Pest Management, Darren Haver, Director of South Coast REC & UCCE Orange

I'LL HAVE A GLASS  
OF YOUR LAKE MEAD 2007  
AND SHE'LL HAVE A GLASS OF YOUR  
ARIZONA VINTAGE AQUIFER.  
AND BRING US A BOTTLE OF  
YOUR FINEST RECYCLED  
EFFLUENT 2020.

OF COURSE...  
COULD I  
INTEREST YOU IN  
A GLASS OF OUR  
DESALINATED  
PACIFIC  
2018?



FITZSIMMONS  
THE ARIZONA DAILY  
STAR 2014

WATER 2025