

WATER CONSERVATION UPDATE

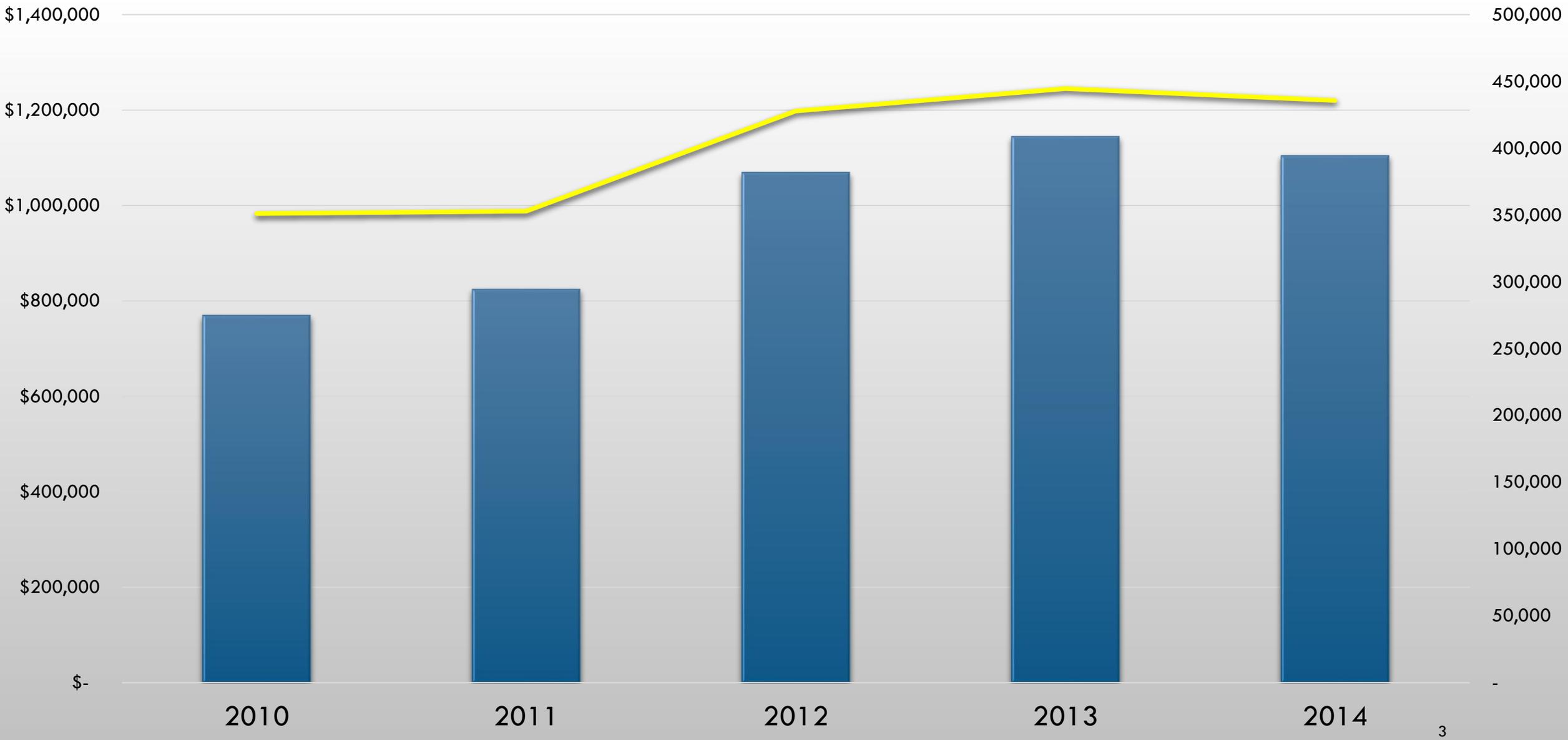
ORANGE UNIFIED SCHOOL DISTRICT



HOW MUCH WATER DOES ORANGE UNIFIED USE?



OUSD 5 Year Water Usage/Expenditures



■ Cost — Usage

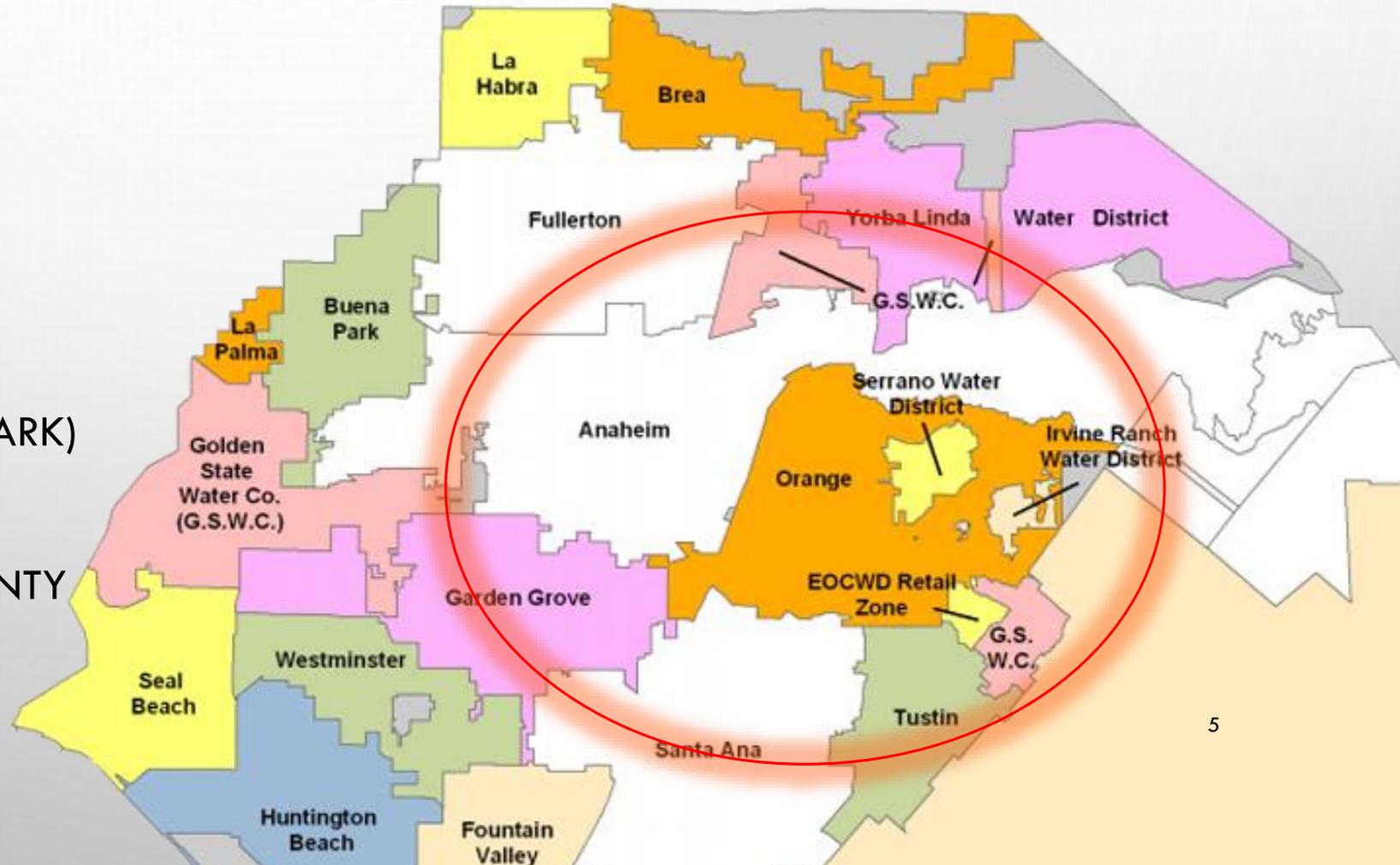
*Average Usage in Gallons – 293m per year

BACKGROUND INFORMATION

- JERRY BROWN ISSUED AN EXECUTIVE ORDER (B-29-15) AS A RESPONSE TO THE DROUGHT
 - APPLICABLE CODES/LAWS – GOVT. CODES 8558(B), 8571, 8567, AND THE CONSTITUTION.
 - INCLUDES SCHOOLS, GOLF COURSES, CEMETERIES, RESIDENTIAL AND COMMERCIAL.
 - TERM –
 - VALID FROM JAN 17, 2014 TO FEBRUARY 28, 2016
 - ACTION –
 - CALLS FOR A 25% REDUCTION OF POTABLE WATER
 - CALLS FOR REPLACEMENT OF 50 MILLION SQUARE FEET OF LAWNS STATEWIDE

OUSD WATER SUPPLIERS

- THE CITY OF ORANGE
- THE CITY OF ANAHEIM
- THE CITY OF SANTA ANA
- THE CITY OF GARDEN GROVE
- SERRANO WATER DISTRICT (VILLA PARK)
- *ALL SUPPLIED BY THE MUNICIPAL WATER DISTRICT OF ORANGE COUNTY



WATER CONSERVATION PROGRAMS

- PAST
 - DROPS PROGRAM (25.5 MILLION FOR SCHOOLS) ENDED JANUARY 15, 2015.
- CURRENT
 - LOCAL WATER PURVEYORS GRANTS
- FUTURE
 - PROPOSITION 1 (THE WATER BOND) PASSED 2014 ELECTION



Drought Response Outreach Program for Schools

- DROPS HAD GRANTS TO:
 - REDUCE STORMWATER POLLUTION
 - WATER CONSERVATION
 - WATER SUPPLY AUGMENTATION
 - ENERGY SAVINGS
 - AWARENESS OF WATER RESOURCE SUSTAINABILITY
 - REDUCED DRY WEATHER RUNOFF

M.W.D.O.C. CURRENT (LOCAL) REBATE PROGRAMS



Turf Removal



Smart Irrigation
Timers

Program/Device	Rebate
Smart Watering Clocks	Up to \$35 per station
Soil Moisture Sensors	Up to \$35 per station
Low Use Rotating Nozzles	\$4 per nozzle
Low Use Large Rotating Nozzles	\$13 per set
In Stem Flow Regulators	\$1 Each
Drip Irrigation	\$.20 per square foot
Turf Removal	\$2 per square foot



Spray
Nozzles



Sprinkler Nozzles

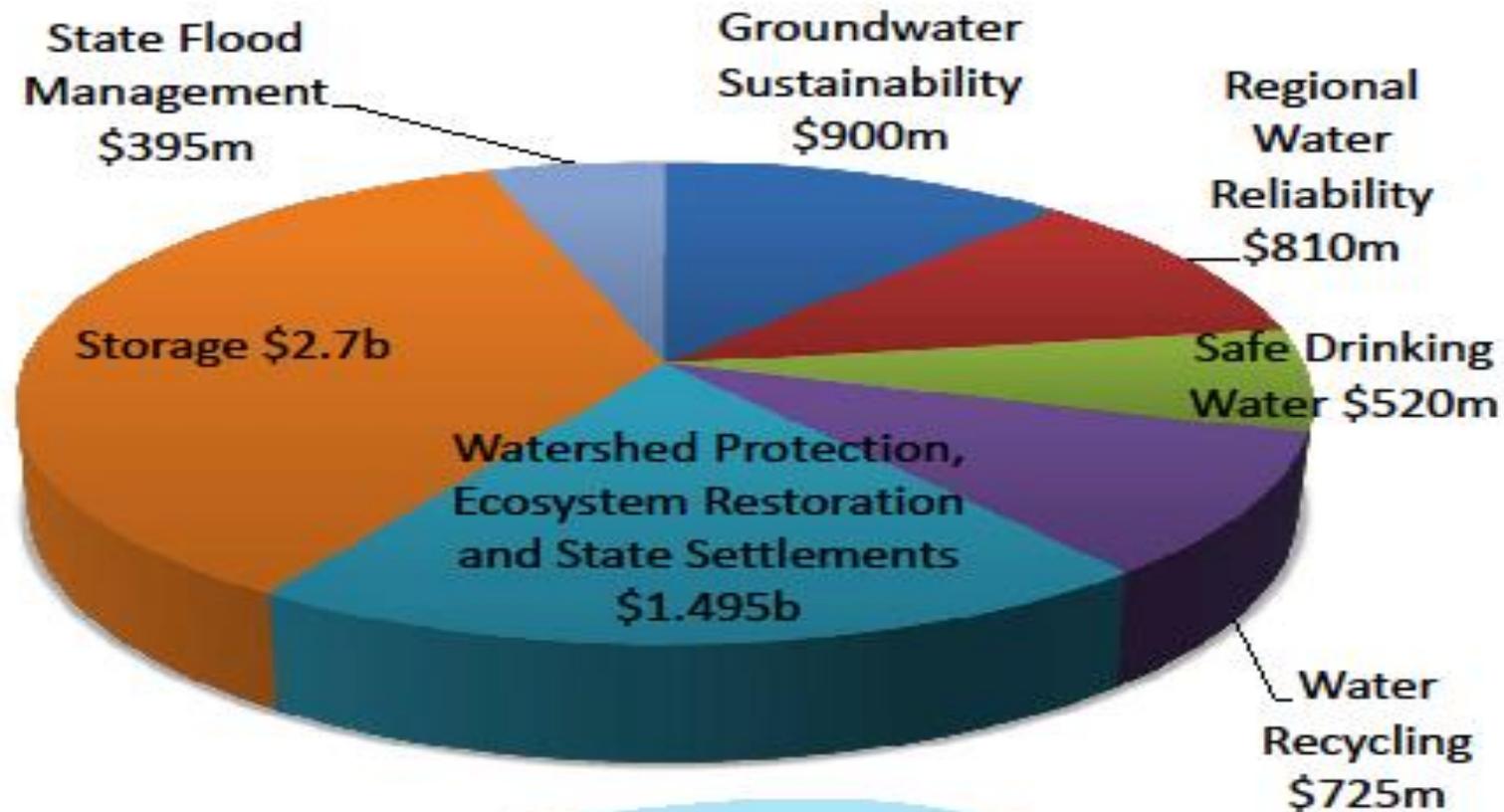
PROPOSITION 1 (THE WATER BOND) 7.545B

- INVESTS IN WATER PROJECTS AND PROGRAMS AS PART OF A COMPREHENSIVE, STATEWIDE PLAN
- FUNDS STRATEGIES FROM CONSERVATION TO RECYCLING TO WATER STORAGE TO GROUNDWATER CLEANUP
- INTENDED TO LEVERAGE ADDITIONAL LOCAL / REGIONAL FUNDS FOR TOTAL INVESTMENT OF \$25 BILLION-\$30 BILLION TO ADDRESS CALIFORNIA'S WATER NEEDS



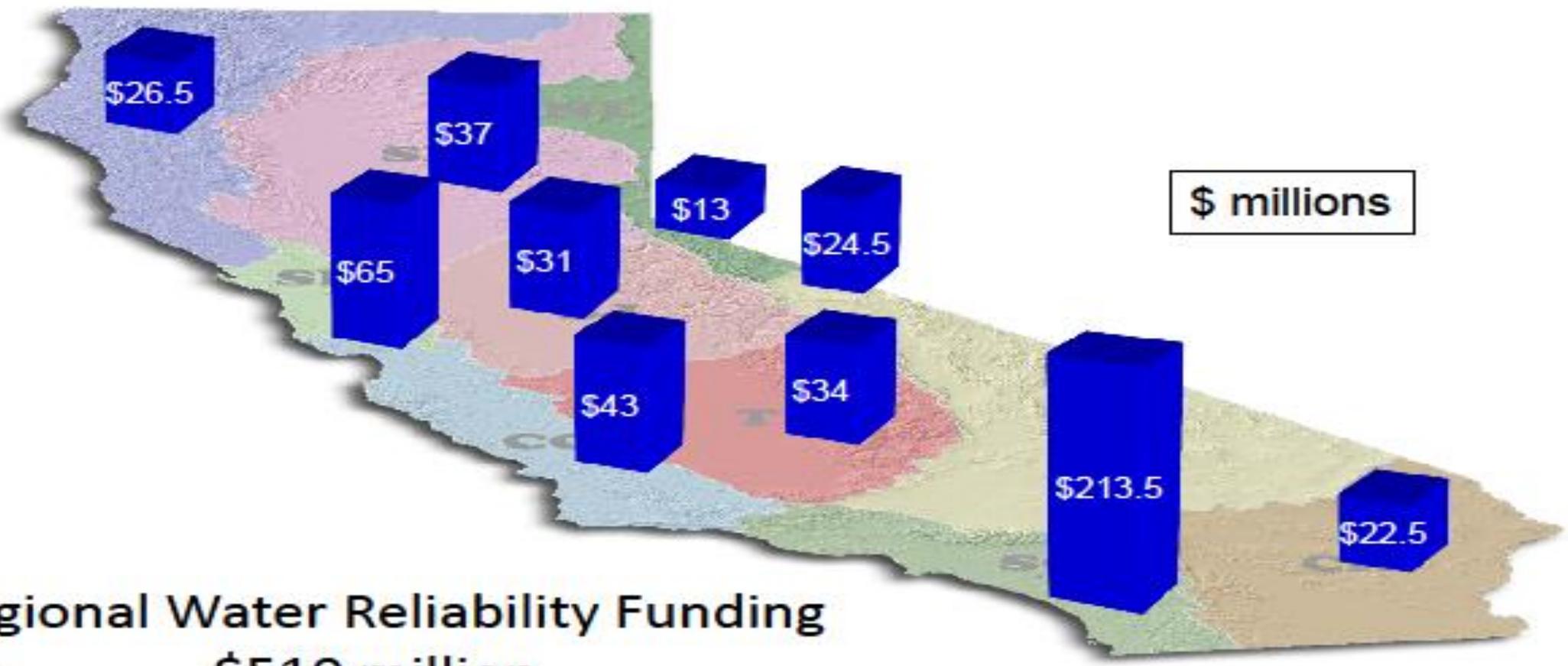
Proposition 1 Funding Categories

Total Expenditures = \$7.545 billion



Proposition 1 Regional Allocations

In addition to providing funds for statewide grants and programs, Proposition 1 dedicates funding to specific hydrologic regions



Regional Water Reliability Funding
\$510 million

WHAT HAS THE DISTRICT ALREADY DONE IN RESPONSE?

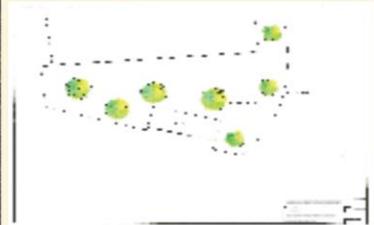
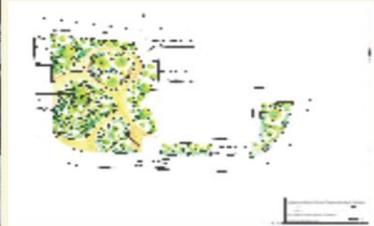
- DRIP IRRIGATION SYSTEM INSTALLED AT LAMPSON ELEMENTARY
- SMART IRRIGATION CLOCKS INSTALLED AT TWO SCHOOLS
- ALL LEAKS ARE REPAIRED AS SOON AS REPORTED
- USAGE IS MONITORED BY THE DISTRICTS ENERGY MANAGER
- THE FACILITIES DEPARTMENT IS WORKING WITH THE STATE WATER BOARD, THE MUNICIPAL WATER DISTRICT, AND ORANGE COUNTY PUBLIC WORKS DEPARTMENT FOR PROPOSITION 1 FUNDING.

WHAT NEW CONSERVATION EFFORTS ARE OUT THERE?

- SOIL WETTING AGENTS
 - POLYMER INJECTED THROUGH CORE AERATION
- INFILTRATION BIOSWELLS
 - FILTRATION SYSTEM FOR RUNOFF BEFORE ENTERING WATERSHED
 - CAN BE UNDER PARKING LOTS OR FIELDS
 - OAK PARK UNIFIED INSTALLED USING LOCAL BOND FUNDS
- DESALINATION
- RECLAMATION PLANTS
- WATER RETENTION

LEDESMA LANDSCAPE PROJECT

- Water Conservation Project at Fernando R. Ledesma High School - Funded by the San Gabriel Water District



COMPLETE

QUESTIONS?



Matthew C. Strother
Executive Director of Facilities and Planning
mstrother@orangusd.org