

LADWP's Stormwater Capture Program

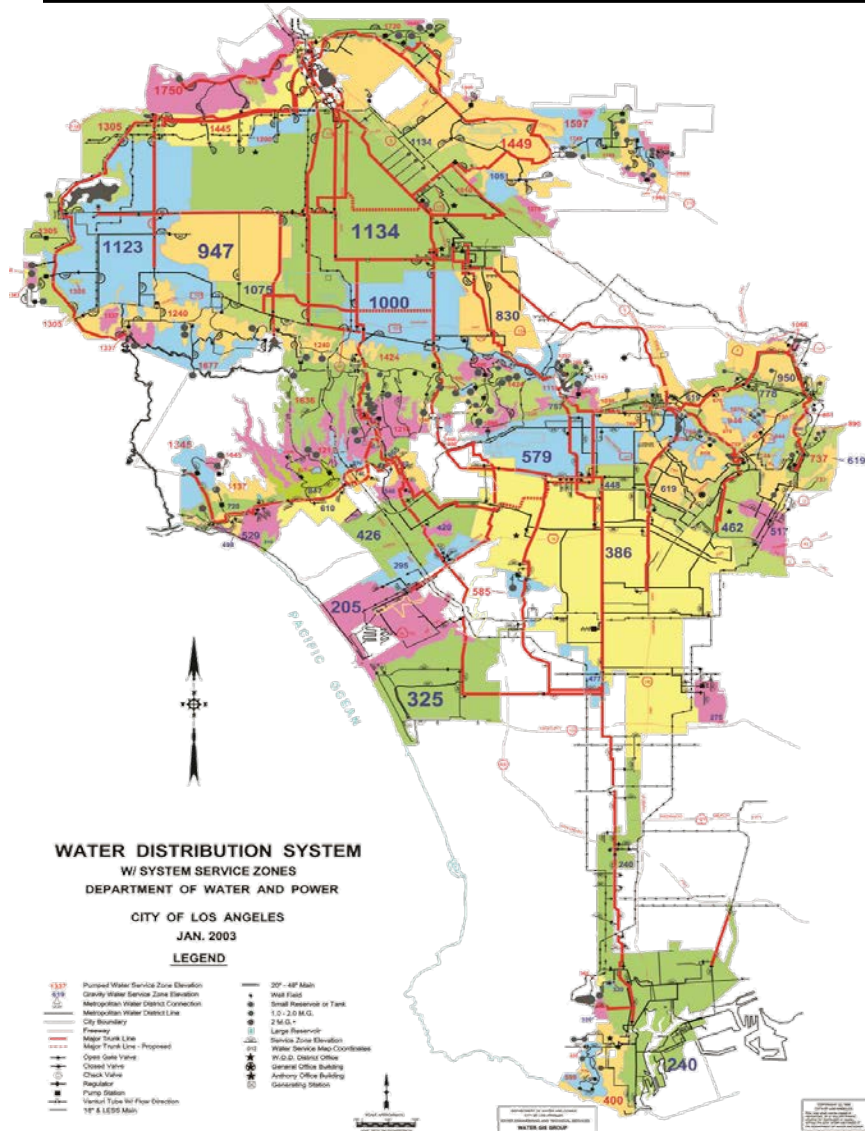
WEF Executive Briefing

March 23, 2017

David R. Pettijohn
Director of Water Resources

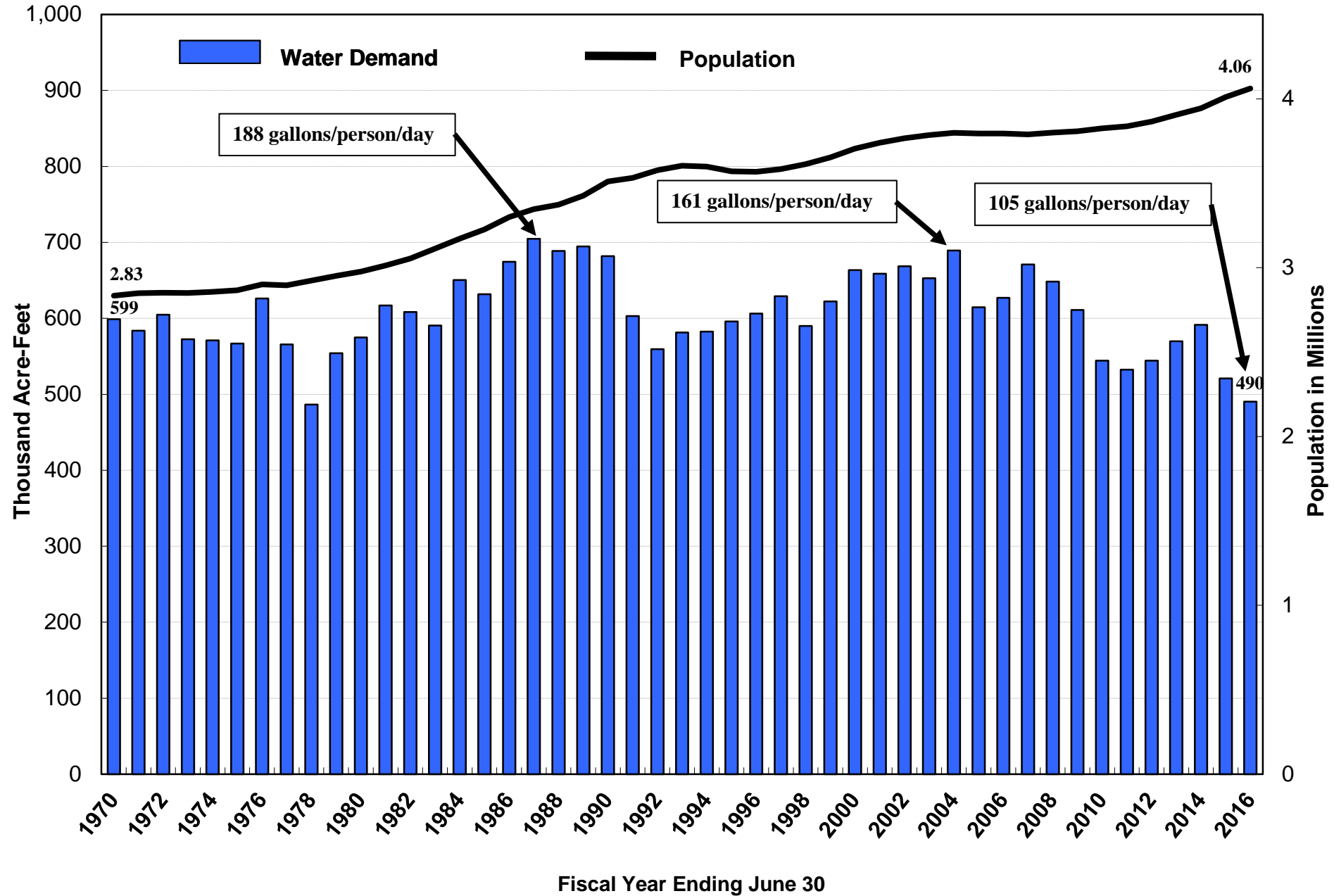
Putting Customers First 

LADWP Today

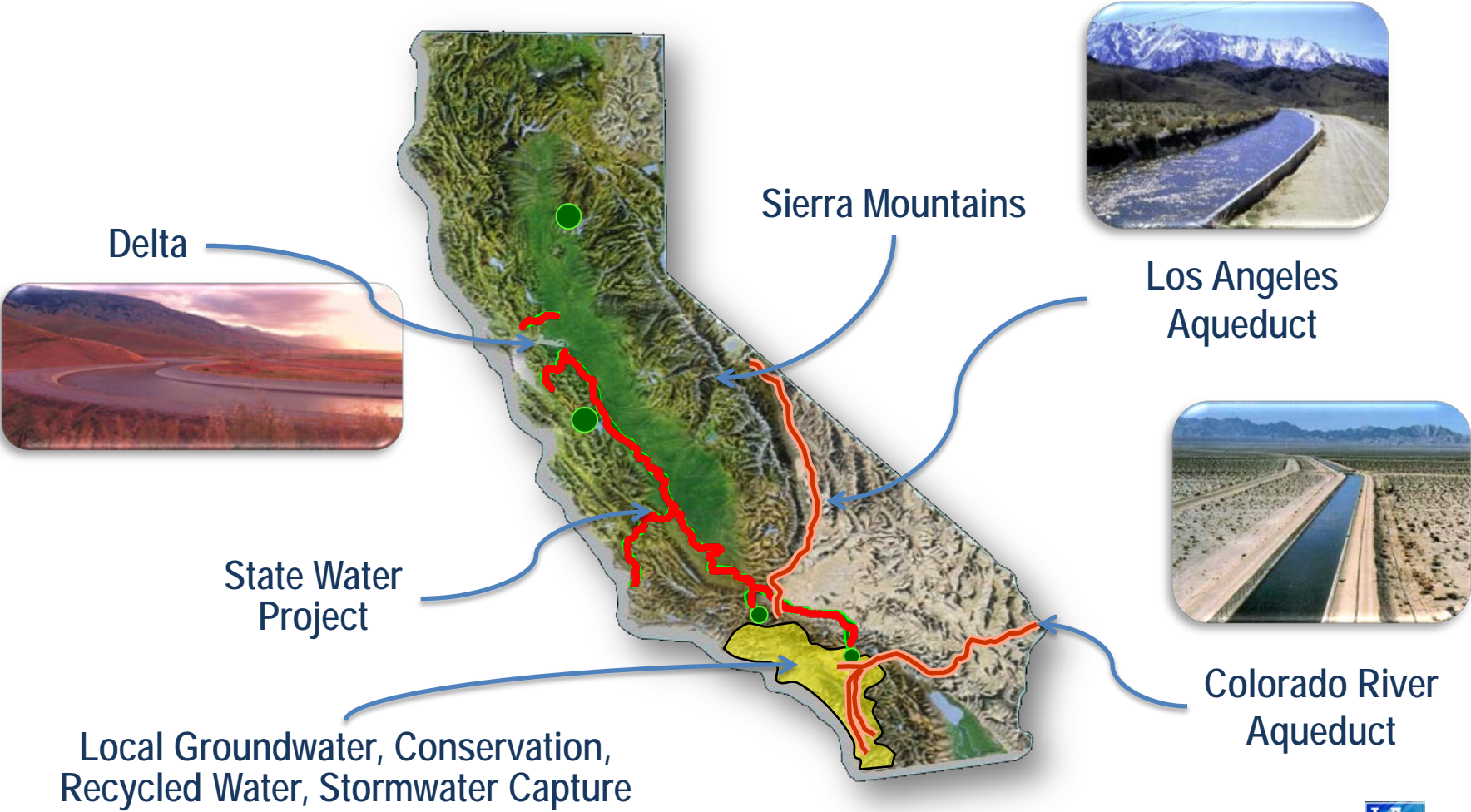


- Service area (472 square miles)
- Provide Water and Power to over 4 million people every day
- Over 485 million gallons of water delivered per day – 543,000 acre-feet per year

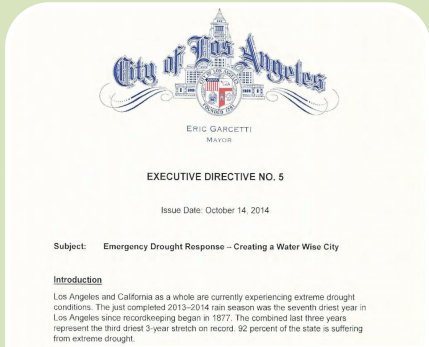
CITY OF LOS ANGELES WATER USE AND POPULATION



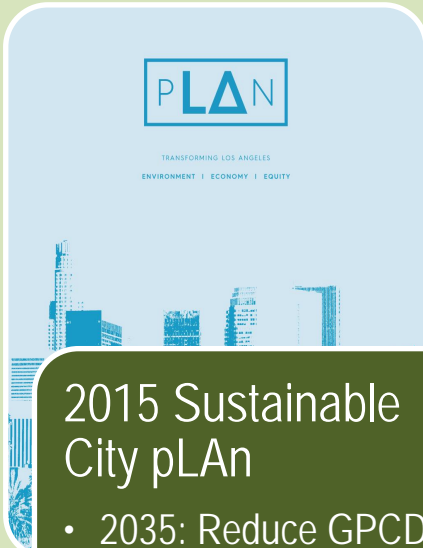
Water Sources and Reliability Challenges



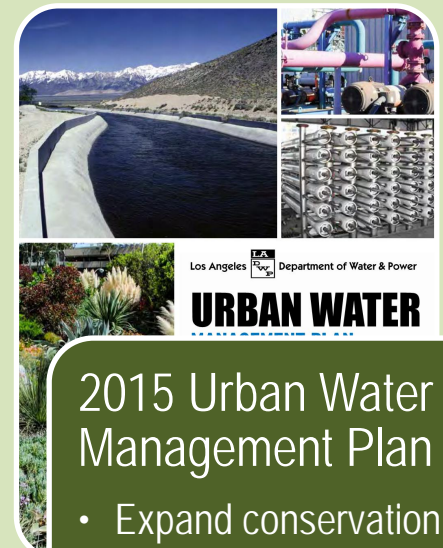
Local Water Supply Program Supports City's Sustainable Water Mandates



- 2014 Executive Directive No. 5
- 2017: Reduce GPCD by 20%
- Create an integrated strategy to increase local supplies



- 2015 Sustainable City pLAN
- 2035: Reduce GPCD by 25%
- 2025: Reduce purchased imports by 50%
- 2035: 50% of water locally sourced



- 2015 Urban Water Management Plan
- Expand conservation
- Expand recycled water
- Enhance stormwater capture
- Remediate contamination in groundwater basin

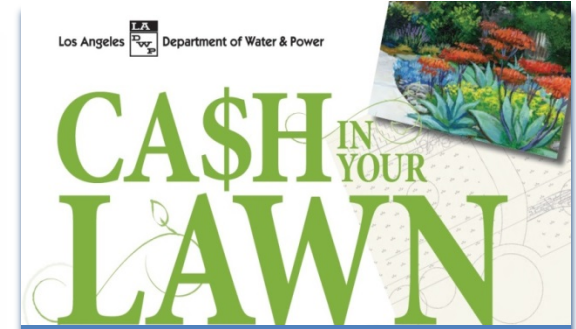
Local Water Supply Program



Recycled Water



Stormwater Capture



Water Conservation



SF Groundwater Basin Remediation

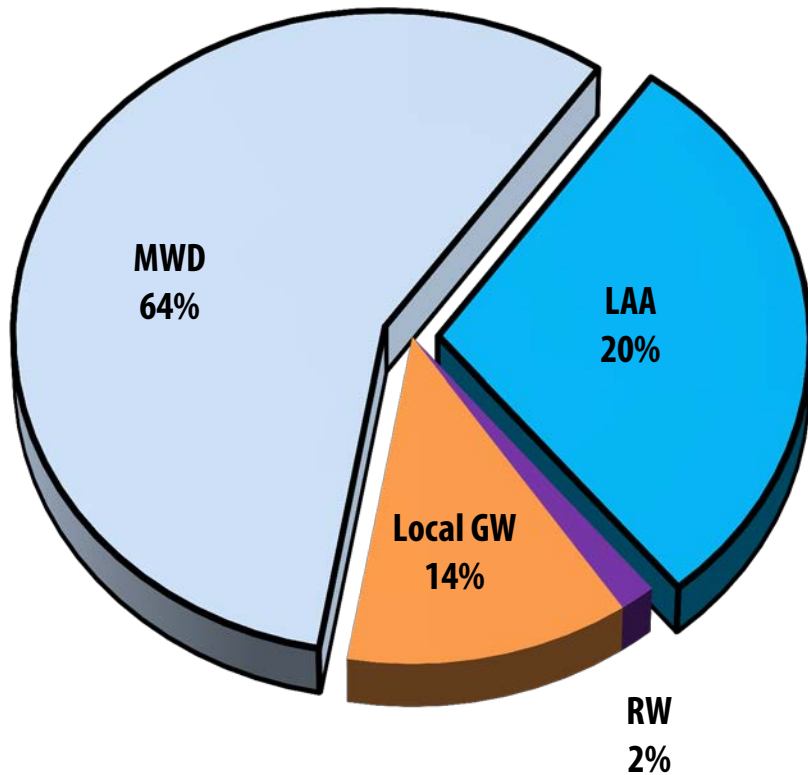


Local Water Supply Reliability

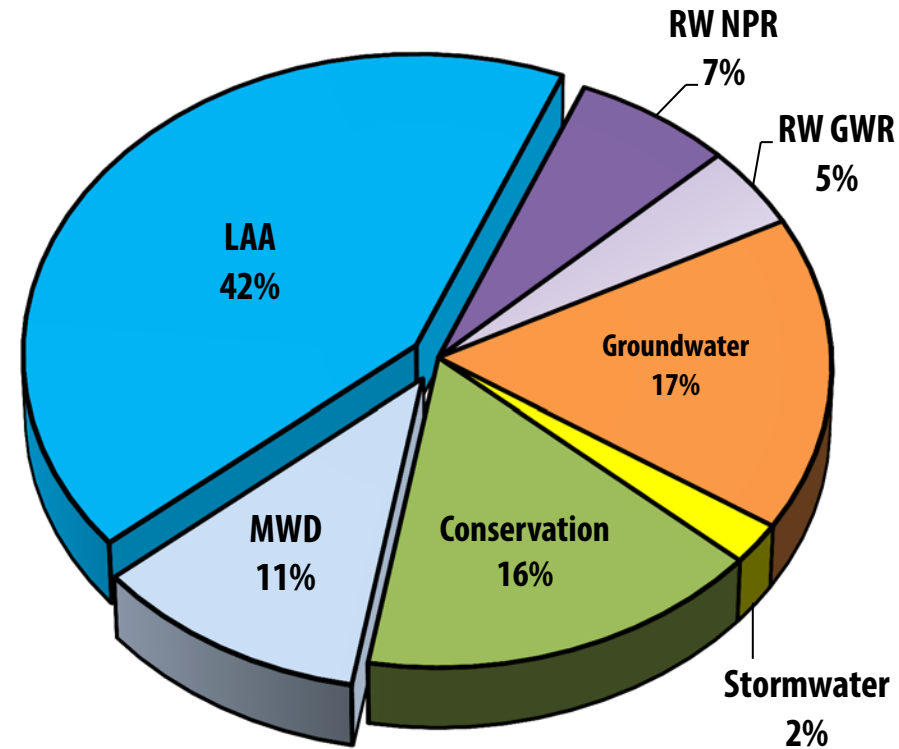


Overall Local Supply Goals

FYE 2012 - 16 Average
Total Demand: 542,700 AF



FYE 2040 Average
Total Production: 675,700 AFY

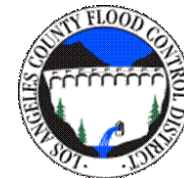


*Does not include 118,034 AF of historical conservation

LADWP's Stormwater Capture Master Plan



- Quantifying stormwater capture potential
- Identifying new project/programs/policies
- Prioritizing based on water supply criteria
- Developing costs/benefits for proposed projects/programs/policies
- Defining timing and key milestones
- Developing 5, 10, 15, and 20 year goals
- Defining partnerships



Stormwater Capture Program

SW Capture Potential: 68,000 – 114,000 AFY

Dam Improvements



Centralized



Spreading Basins

Dry Wells



Cisterns



Distributed



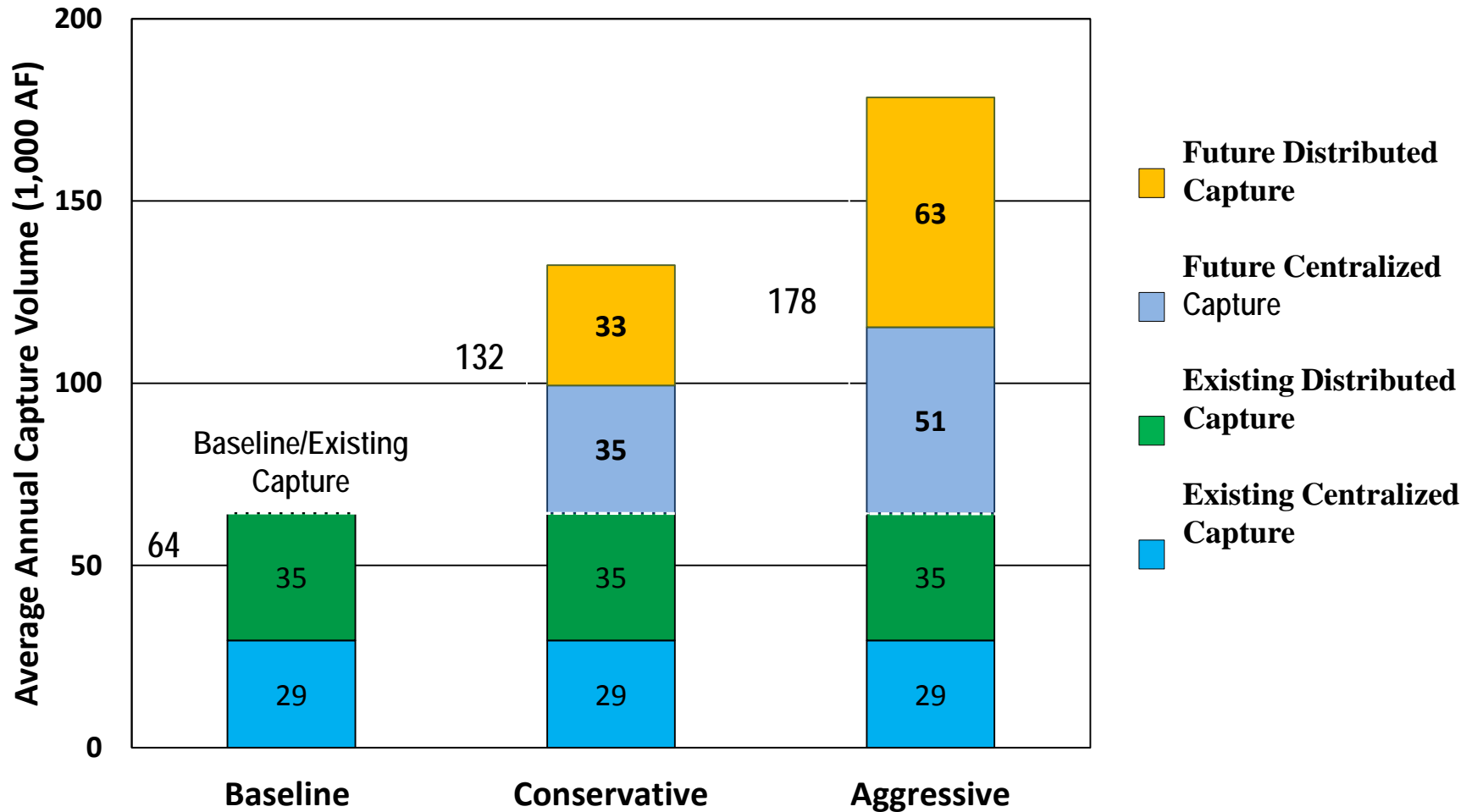
Green Streets

Rain Barrels

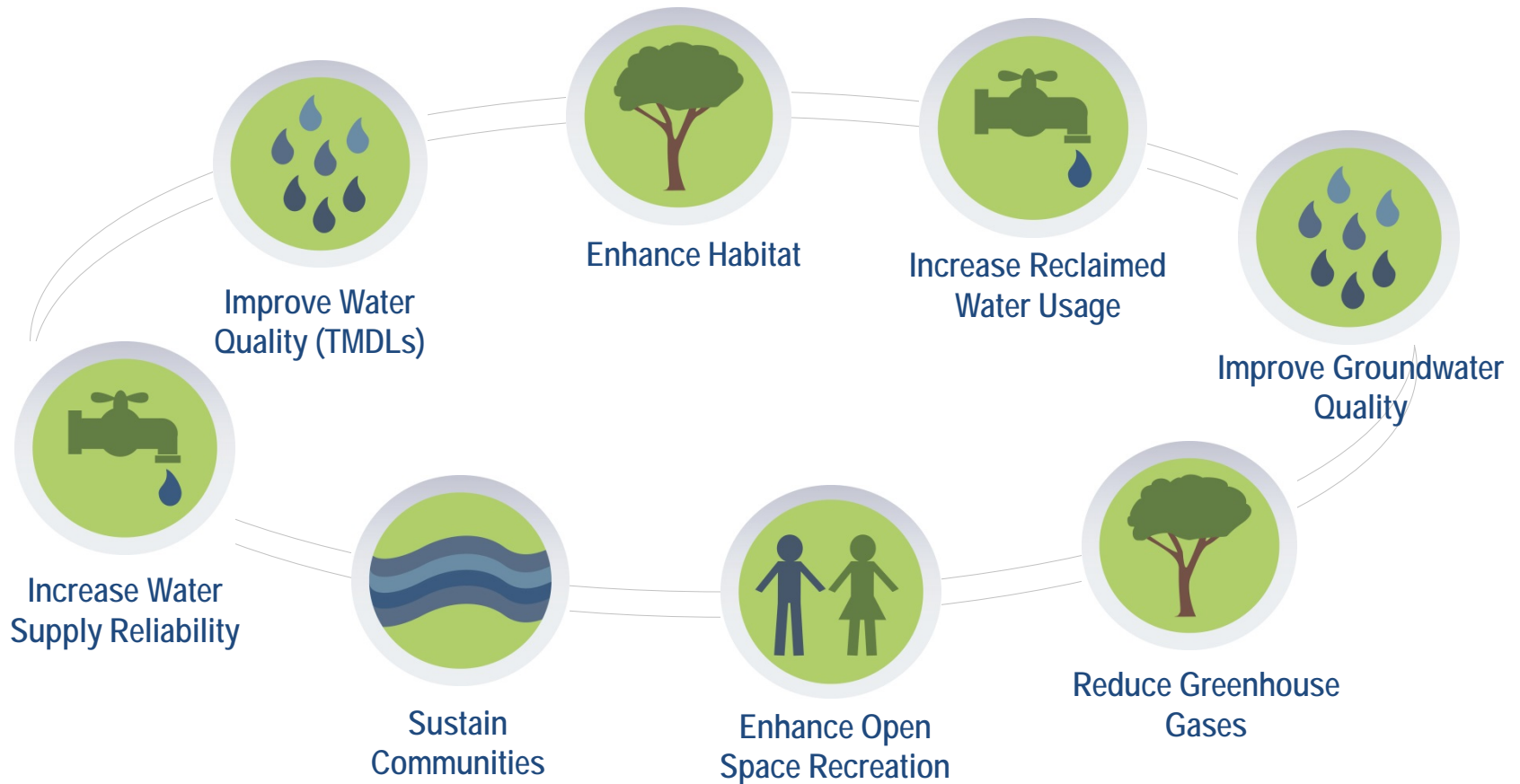


Stormwater Capture Potential

Distributed and Centralized Capture - 2035

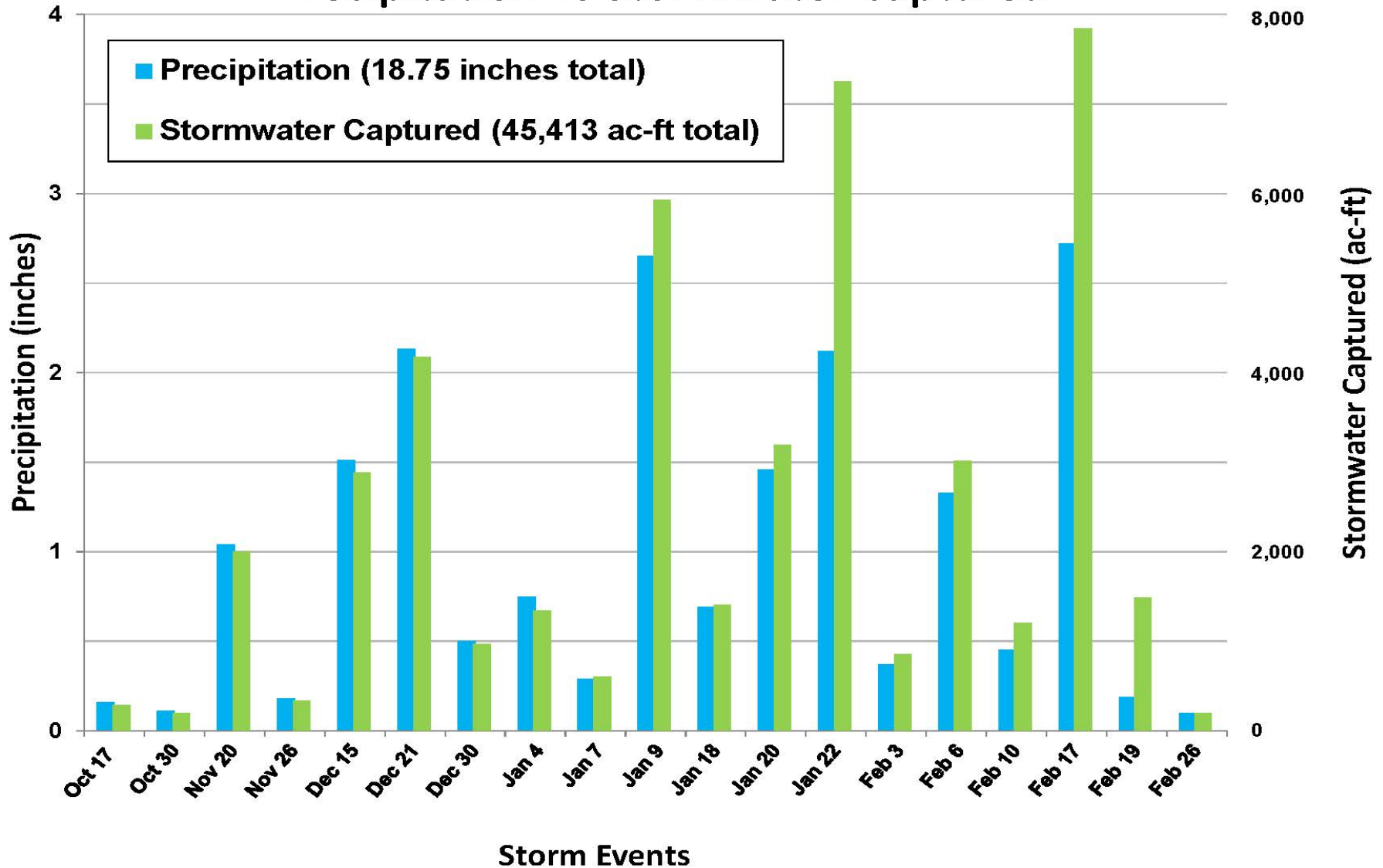


Ancillary Benefits of Stormwater Capture



Water Year 16/17

Precipitation vs Stormwater Captured



Hansen Spreading Grounds Improvement Project

Total Project Cost - \$9.7 M

LADWP Contribution	\$4.2 M
Completion Date	2013
Yield (AFY)	16,000
Cost per Acre-Foot (\$/AF)	\$40



Woodman Avenue Stormwater Capture Project

Total Project Cost - \$3.4 M

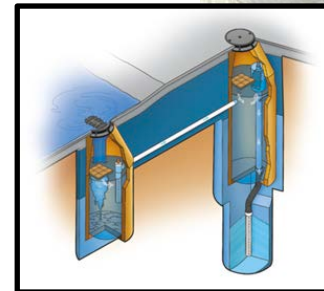
LADWP Contribution	\$1.2 M
Completion Date	2014
Yield (AFY)	55
Cost per Acre-Foot (\$/AF)	\$727



Sun Valley EDA Public Improvement Project

Total Project Cost - \$6.66M

LADWP Contribution	\$2.4 M
Completion Date	2016
Yield (AFY)	93
Cost per Acre-Foot (\$/AF)	\$645



Laurel Canyon Green Street Project

Total Project Cost - \$3.67 M

LADWP Contribution	\$1.5 M
Completion Date	2017
Yield (AFY)	40
Cost per Acre-Foot (\$/AF)	\$1220



Questions?

LADWP's Stormwater Capture Program

www.ladwp.com/stormwater

Stormwater Capture Master Plan

www.ladwp.com/scmp

