



Los Angeles
Department of
Water & Power

LADWP's Stormwater Capture Program

Joint Informational Hearing
Senate Governance and Finance and
Natural Resources and Water Committees
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Sources of Water for Los Angeles



Sierra Mountains

Bay Delta

LA Aqueduct

State Water Project

Colorado River Aqueduct

Local Groundwater, Stormwater, Conservation & Recycling





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Water Supply Reliability Challenges



- Environmental Degradation*
- Sea Level Rise*
- Climate Change*
- Seismic Risk*

Threats to Imported Water



**Local Groundwater Contamination
& Basin Urbanization**

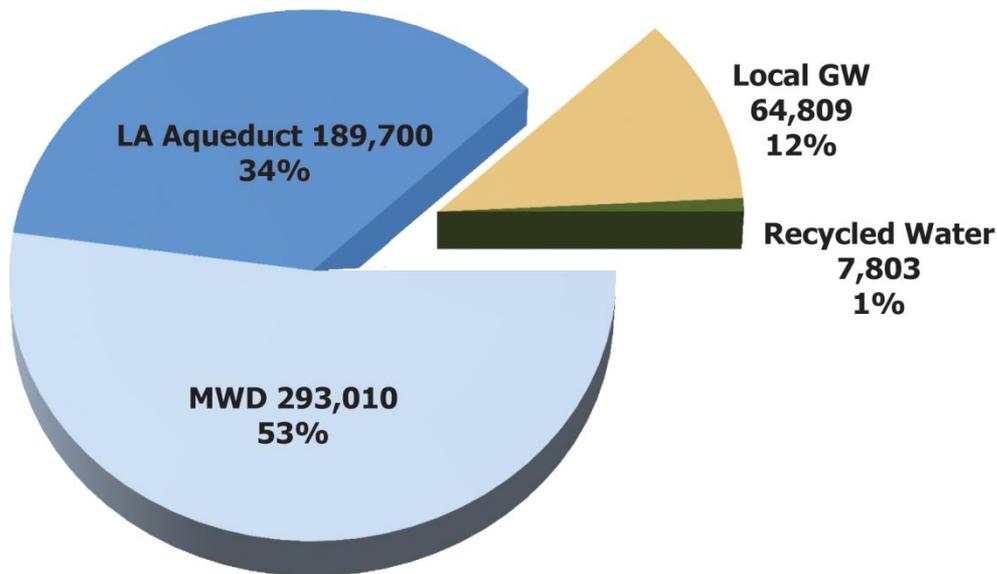


Rising Purchased Water Costs

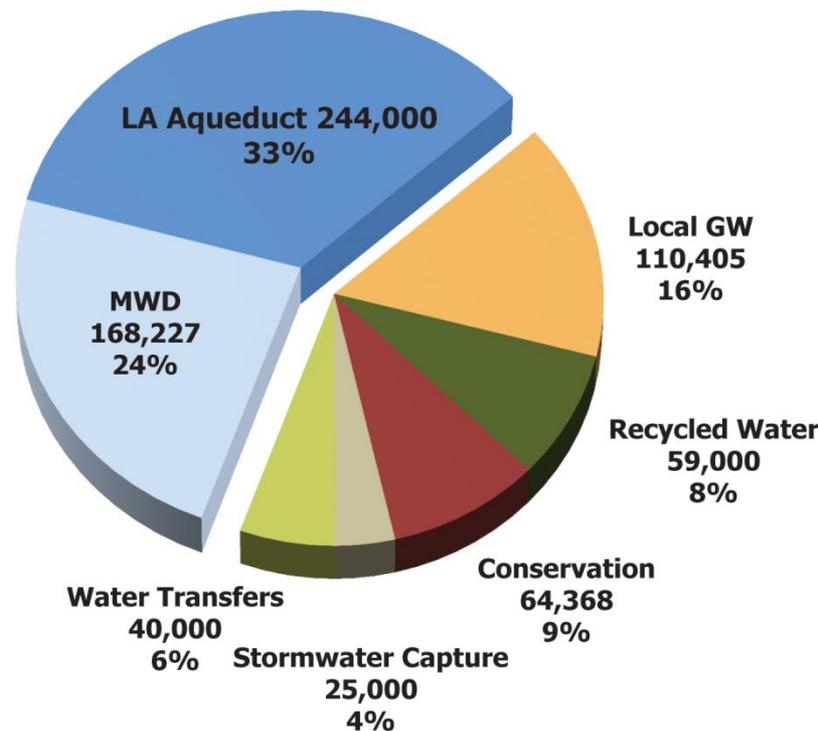


Future Water Supply Reliability

FYE 2010 - 2014 Average
Total: 553,876 AFY



Fiscal Year 2034 - 35
Total: 711,000 AFY



Stormwater Capture

Dam Improvements



Centralized



CAPTURE



Distributed

Cisterns



Spreading Basins



Rain Gardens



Rain Barrels



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Centralized Stormwater Projects

- On average, 27,000 acre-feet per year have been recharged through spreading ground operations in the San Fernando Basin from 1968 through 2013
- *50% increase in capture efficacy per inch of rain over the past 40 years*





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Distributed Stormwater Projects

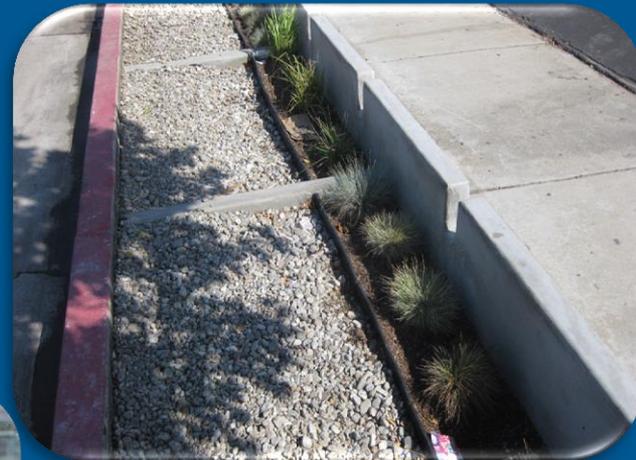


North Hollywood
Alleys



Sun Valley Park

Elmer Avenue Retrofit

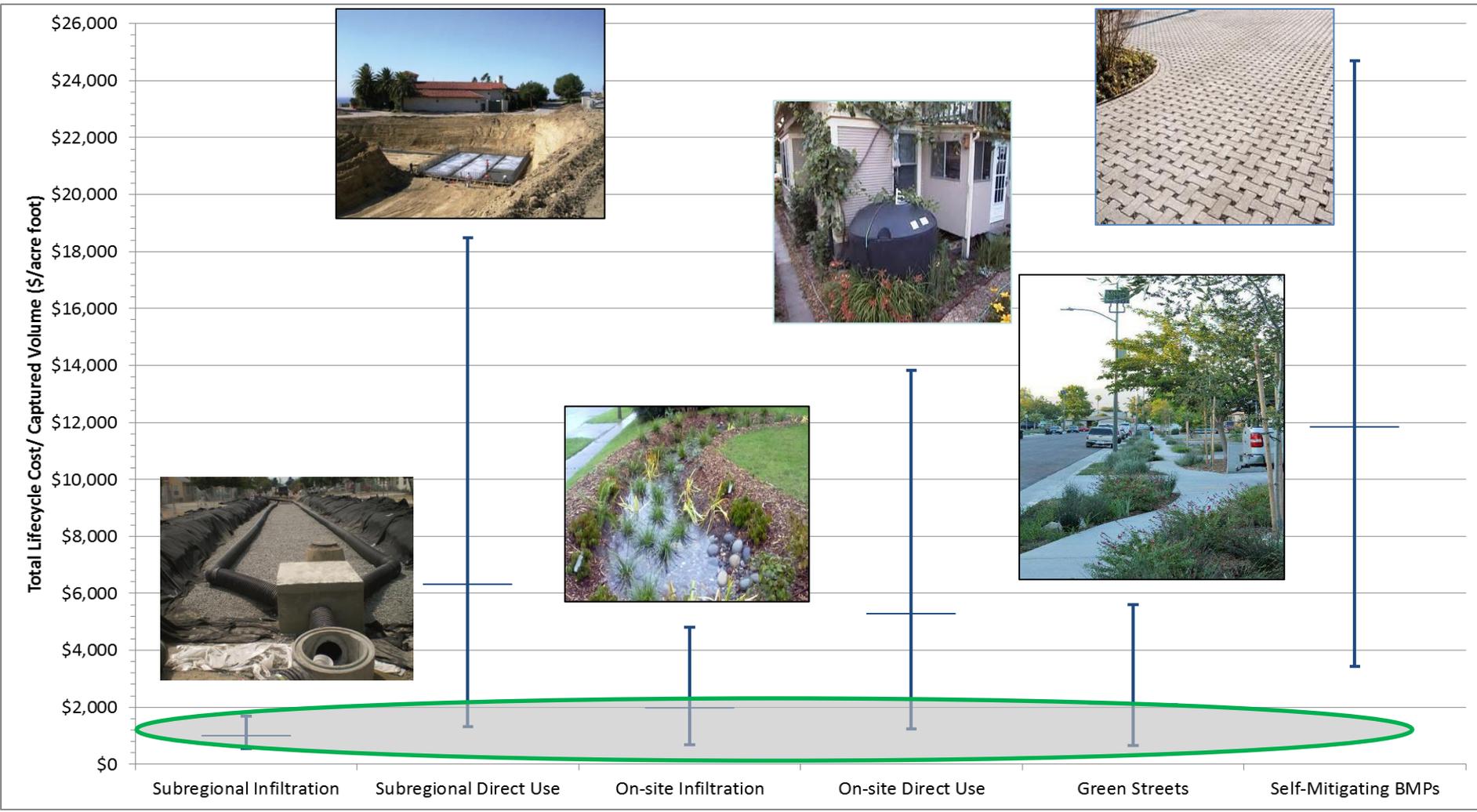


Glenoaks and Sunland
Street Improvements

LADWP created the Watershed Management Group in 2008 to assist with watershed wide infiltration and direct use.



Range of Lifetime Costs/AF For Various Capture Projects



Stormwater Capture Master Plan

GOALS

- Quantify stormwater capture potential
- Identify new projects/programs
- Prioritize based on water supply criteria
- Develop cost/benefits for proposed projects/programs
- Define timing and key milestones
- Tentative Completion Date: June 2015

PARTNERS





LADWP's Planning Efforts For Stormwater Capture Projects

- Hydrology analysis to determine water supply benefits
- Cost of project and project's lifetime/operation and maintenance
- Business Case
 - Cost per acre-foot per year
 - Internal rate of return
 - Payback period
 - Funds (grants) availability based on type of project
 - Comparison of cost and benefit
 - Partnership
 - Development of cost curves

