Joint Informational Hearing
Senate Governance and Finance and
Natural Resources and Water Committees
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LADWP’s Stormwater Capture Program
Sources of Water for Los Angeles

- LA Aqueduct
- Colorado River Aqueduct
- State Water Project
- Sierra Mountains
- Bay Delta
- Local Groundwater, Stormwater, Conservation & Recycling
- Conservation & Recycling
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

- LA Aqueduct: 189,700 (34%)
- MWD: 293,010 (53%)
- Local GW: 64,809 (12%)
- Recycled Water: 7,803 (1%)

Fiscal Year 2034 - 35
Total: 711,000 AFY

- LA Aqueduct: 244,000 (33%)
- MWD: 168,227 (24%)
- Local GW: 110,405 (16%)
- Recycled Water: 59,000 (8%)
- Water Transfers: 40,000 (6%)
- Stormwater Capture: 25,000 (4%)
- Conservation: 64,368 (9%)
Stormwater Capture

Centralized

Spreading Basins

Dam Improvements

Distributed

Cisterns

Rain Gardens

Rain Barrels
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
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

- Subregional Infiltration
- Subregional Direct Use
- On-site Infiltration
- On-site Direct Use
- Green Streets
- Self-Mitigating BMPs
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
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