

Municipal Water District of Orange County

IRP Committee Discussions

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of Southern California

January 4, 2017

Integrated Resources Plan Strategy

Water Use Efficiency

- Reduce Per Capita Water Use
- Shift Focus To Outdoor Water Use

Local Resources

- Incentives and Partnerships To Increase Local Supply Production

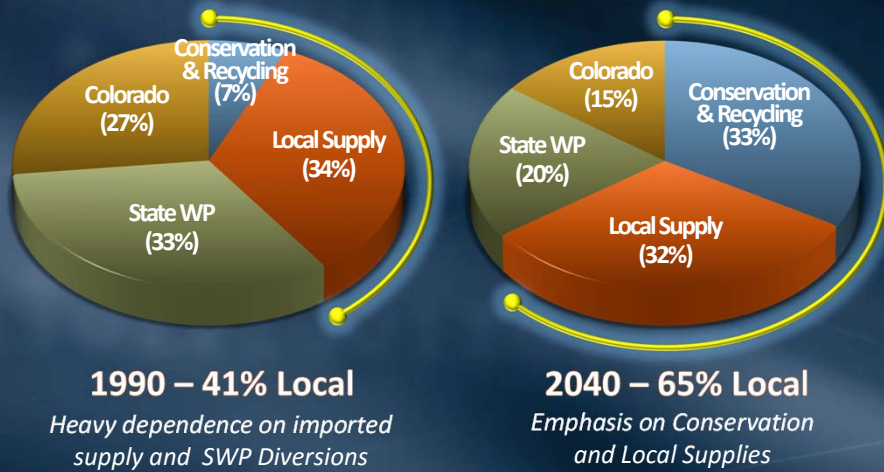
SWP

- Pursue Improvements In Bay-Delta To Stabilize Supplies

CRA

- Develop Dry-Year Supply Programs To Secure Minimum of 900,000 AF/Year

The Water Portfolio Is Changing

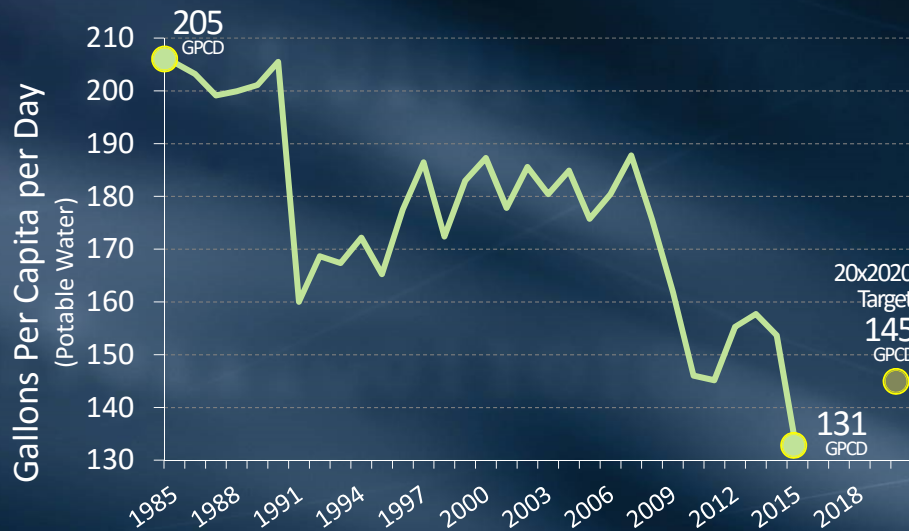


How Is The Plan Working?

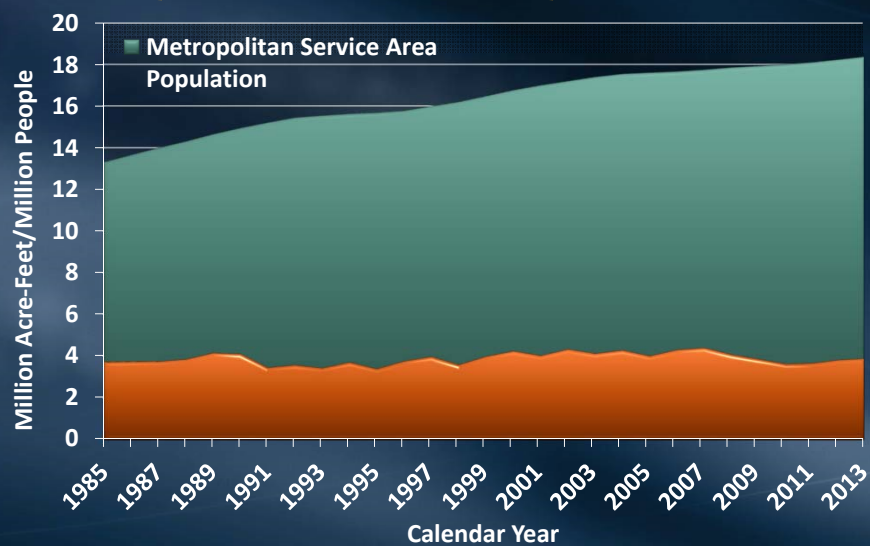
Focus: Conservation and Local Resources

Great Progress In Water Use Efficiency

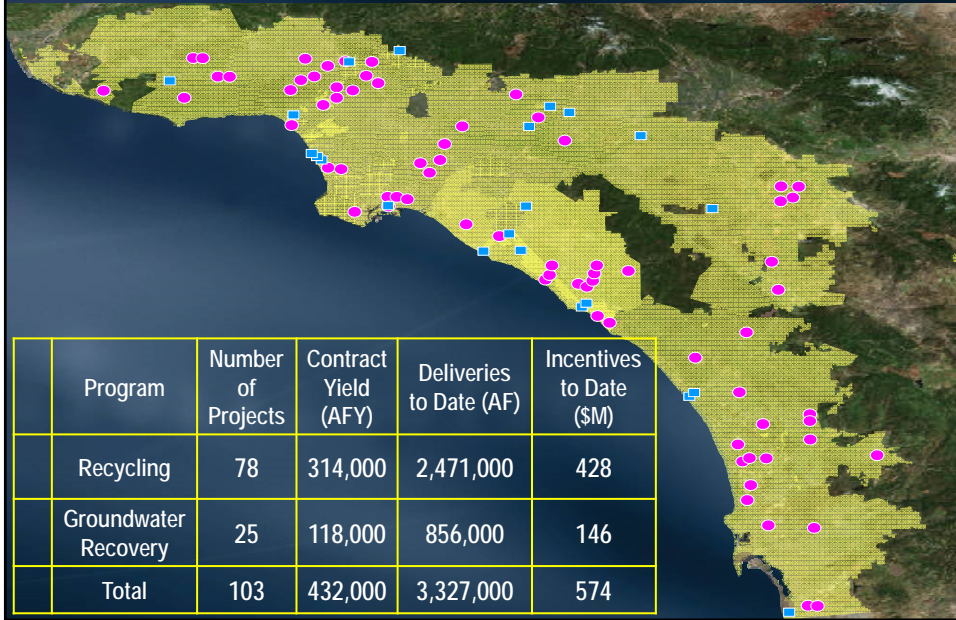
Potable Gallons Per Capita Per Day



Demands Remain Flat Even As Population Grew By 5 Million

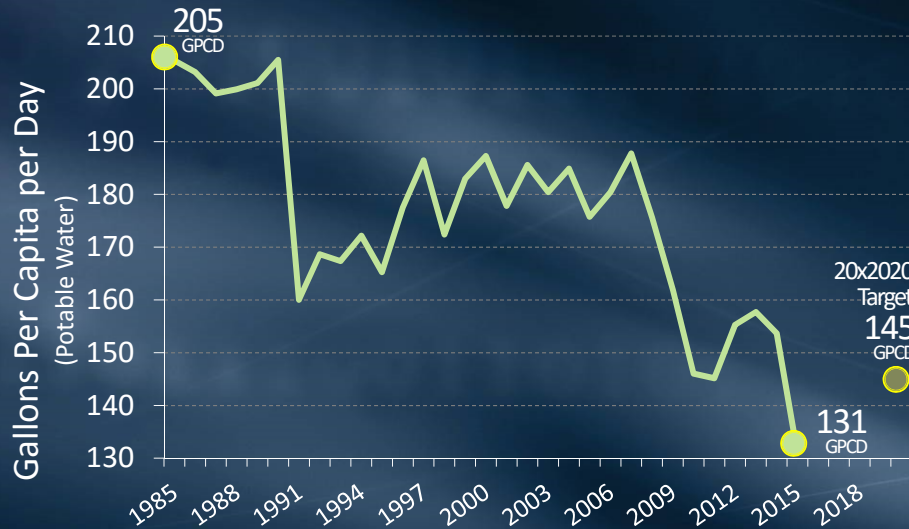


Metropolitan Funds Local Supplies



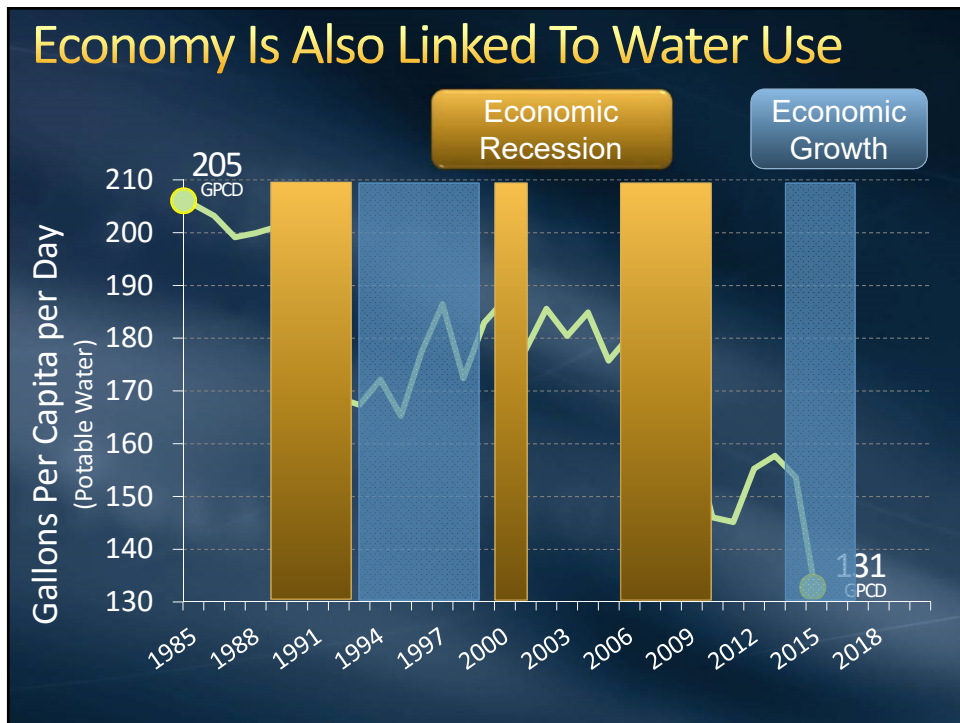
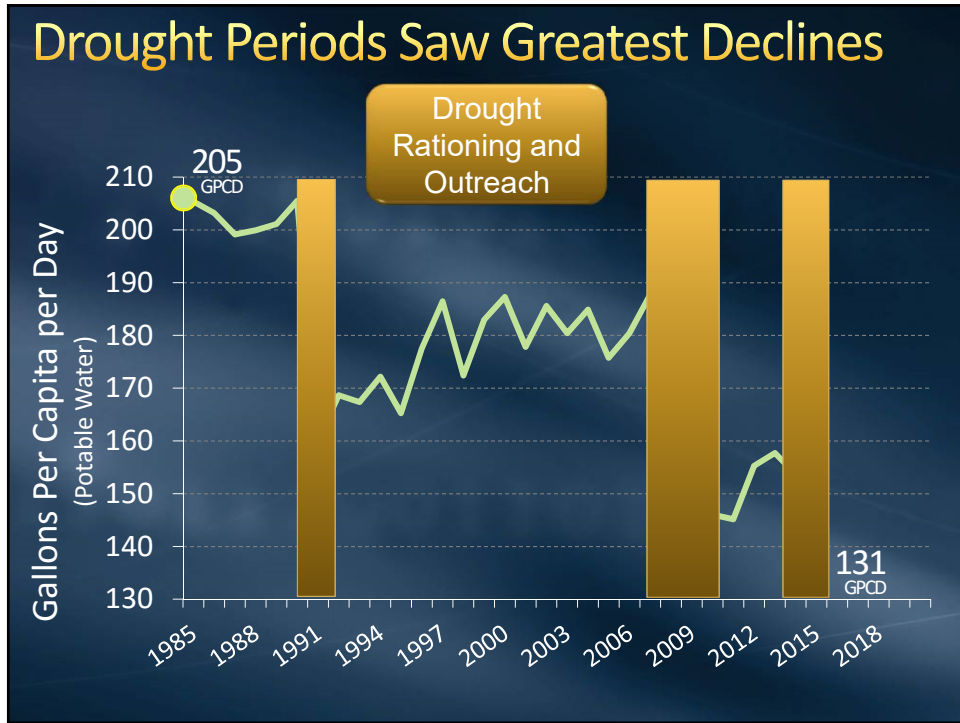
Many Factors Affect
Regional Per Capita Use

Reducing Regional Per Capita Use



MWD Conservation Incentives Increased

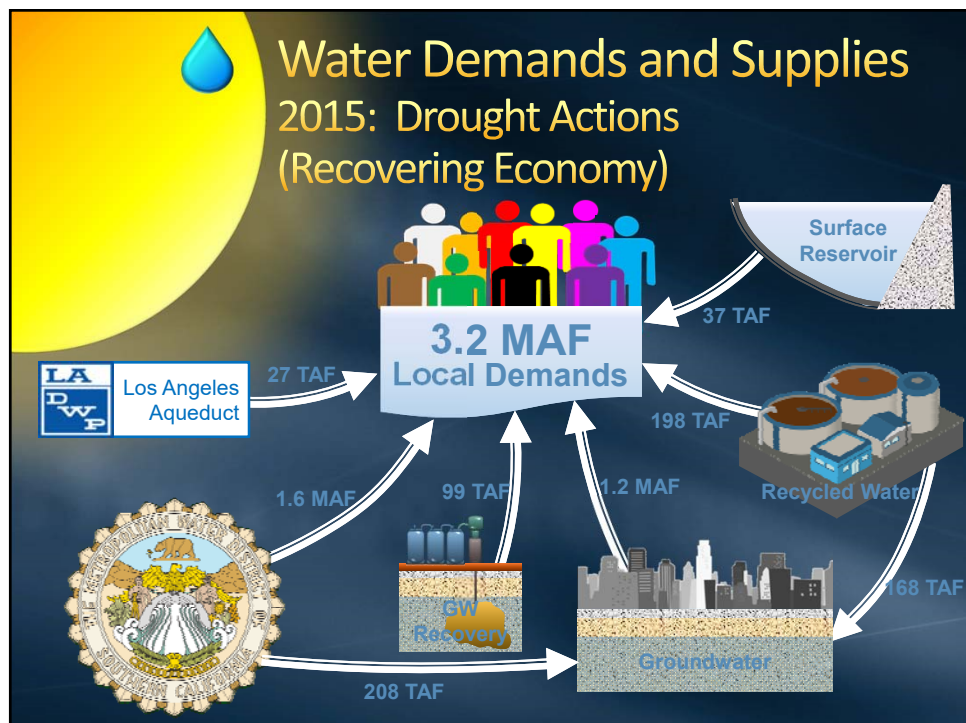
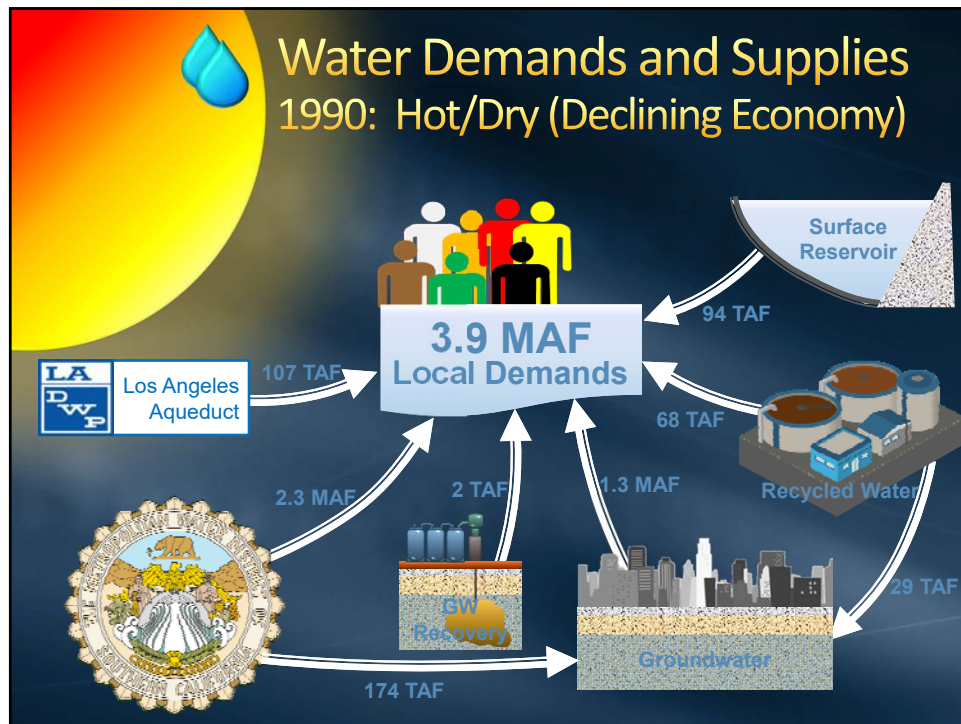




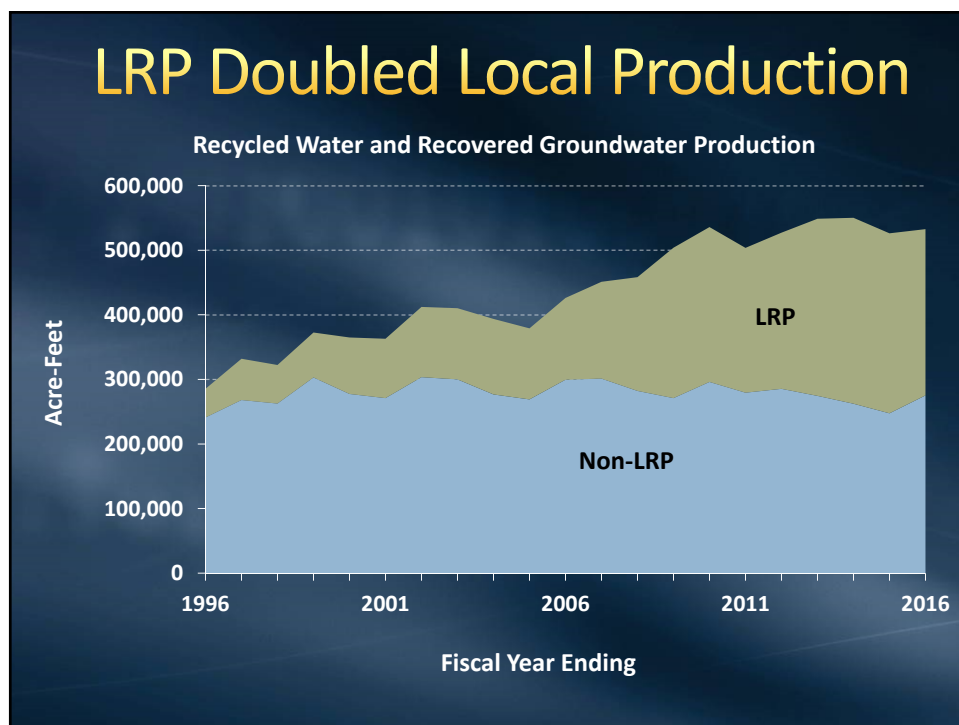
Conservation – Next Steps

- Peer review of conservation incentive program
- Implications of new State regulations
 - Sample budgets for areas within MWD
 - Should Metropolitan help agencies comply? If yes, then how should conservation program adjust?
- Continue to focus on outdoor water use
 - Much to learn in the coming years as a result of turf removal programs and media campaigns
- Future recommendations to Board as needed

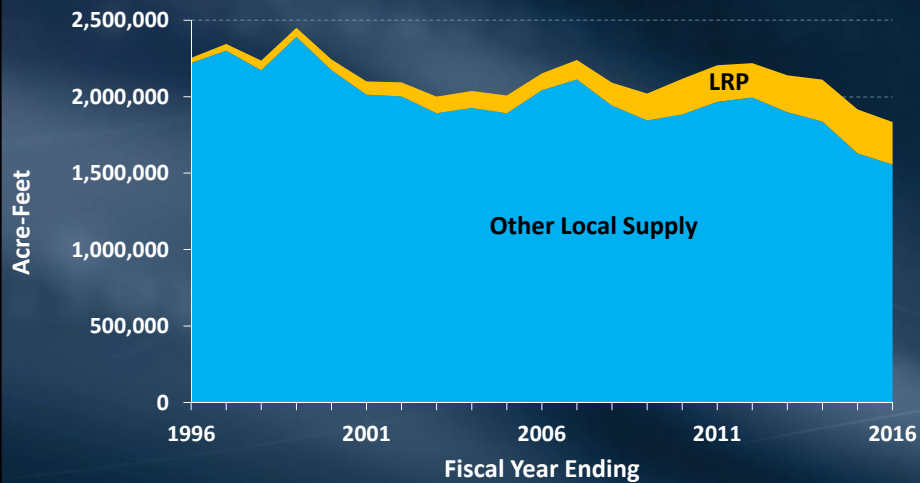
Is The Way We Get Water
Really Changing?



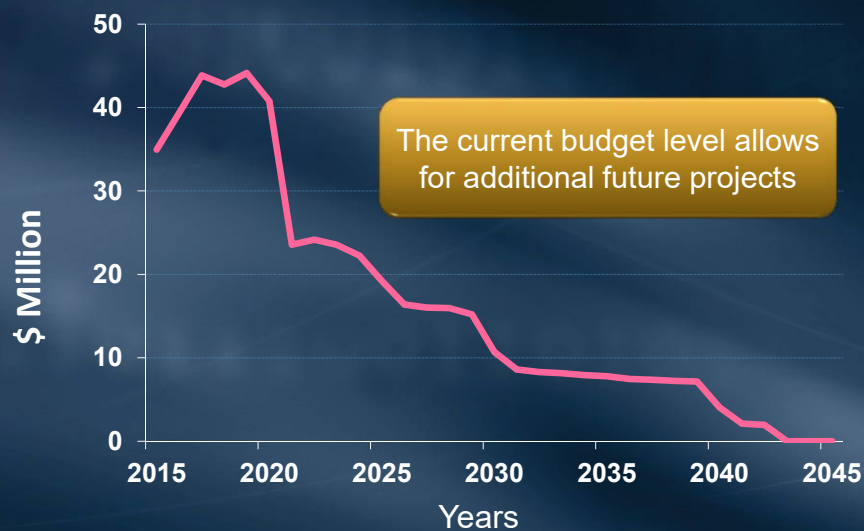
Focus On Increasing Local Supplies Within The Region



LRP Has Slowed the Decline of Local Supplies



Projected LRP Expenditures With Current Contracts



Local Resources – Next Steps

- Local resource program has helped
 - LRP was just refined at the end of 2014
 - New projects have started coming in
- Are there other steps MWD should take to help encourage “net” increases in local resources?
 - Direct development of projects
 - Reimbursable services are available
 - Changes to allocation method or other policies?

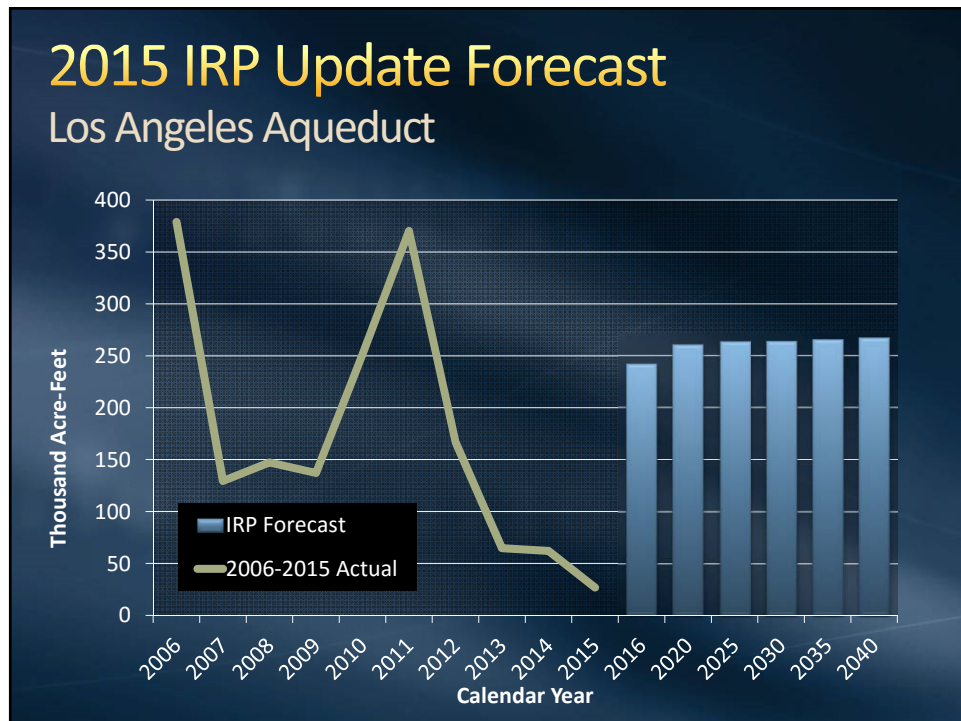
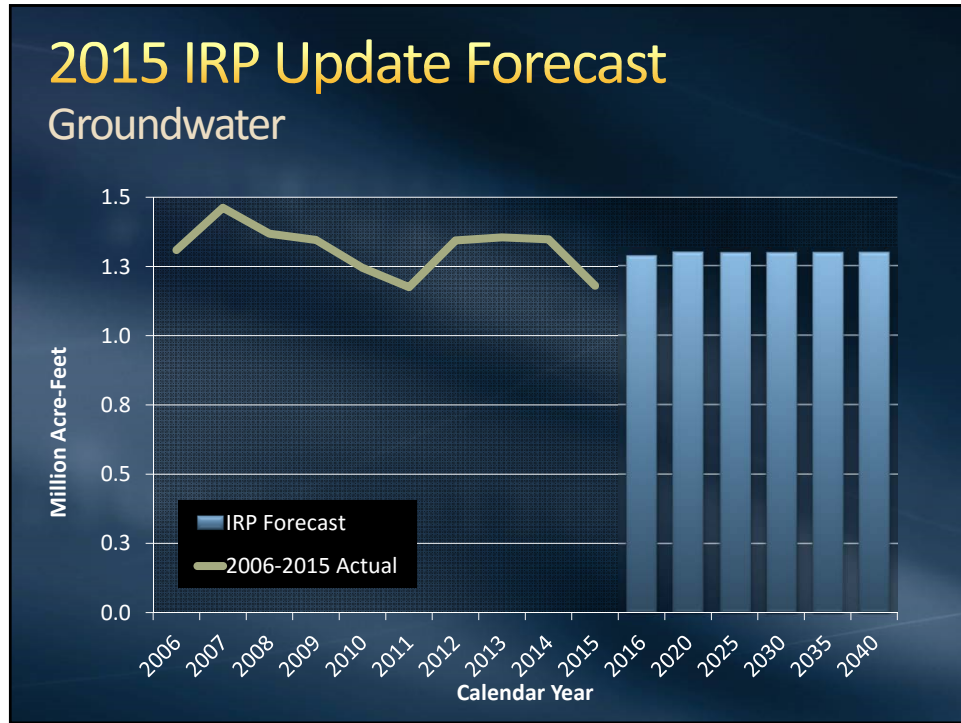


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IRP Targets & Actual Local Supply Production

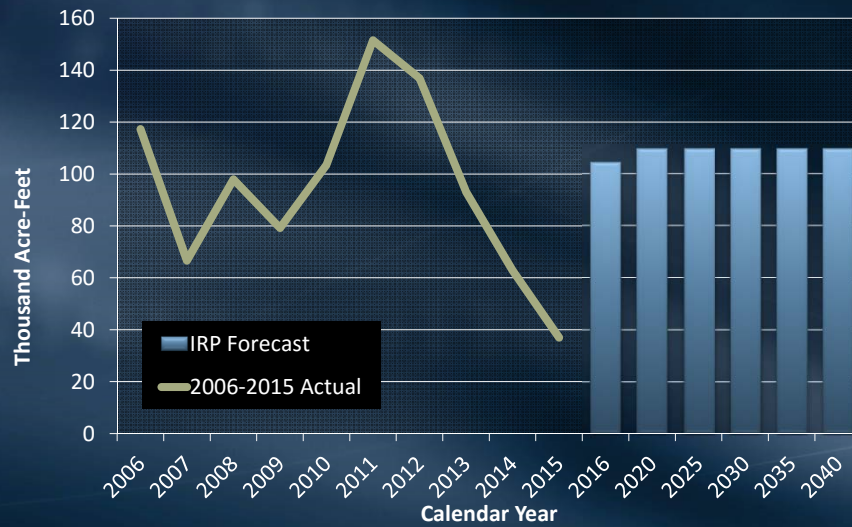
2015 IRP Update Forecast & Targets Total Local Supplies





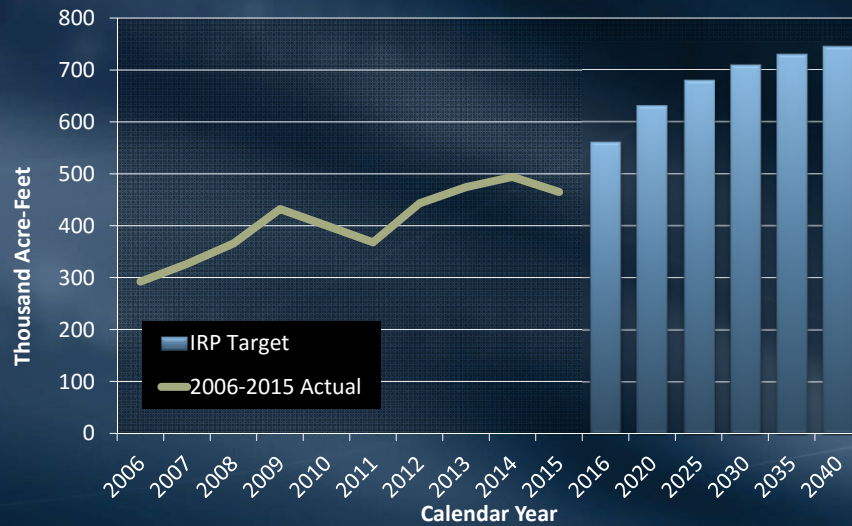
2015 IRP Update Forecast

Surface Water

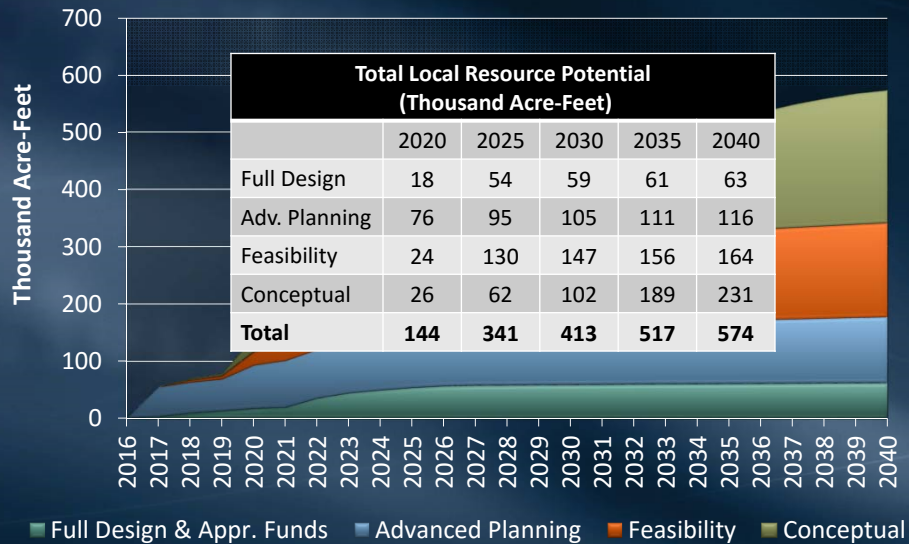


2015 IRP Update Target

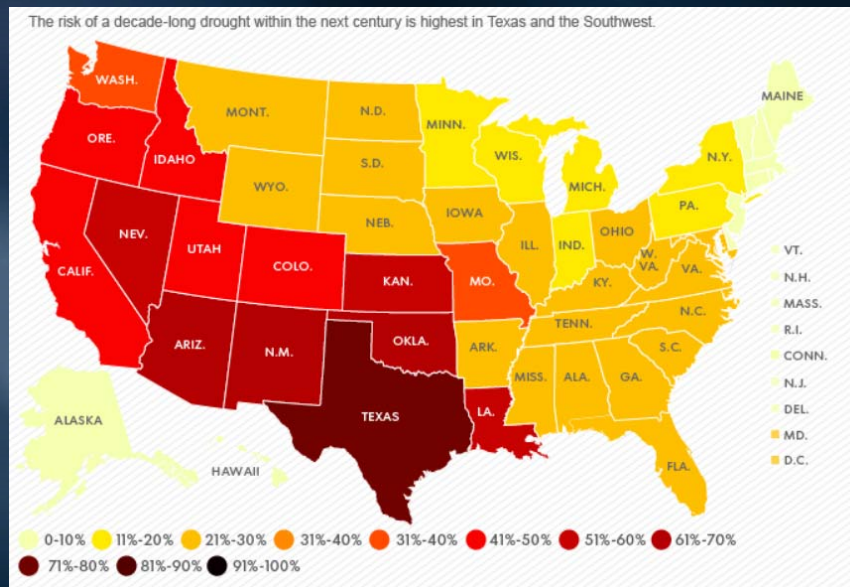
Recycling, Groundwater Recovery & Desalination



Inventory of Potential Local Projects 2015 IRP Update



Future Droughts



Lamont Doherty Earth Observatory of Columbia University; U.S. Drought Monitor; Cornell University
Doyle Rice, Frank Pompa and Julie Snider, USA TODAY





We Have A Roadmap To Reliability

1. Increase local supplies within the region
2. Improve State Water Project system to capitalize on wet/normal year supplies (Cal Water Fix)
3. Secure at least 900 thousand acre-feet of annual Colorado River supplies even in shortage conditions
4. Focus on outdoor water use to further reduce per capita water use
5. Change State regulations to recognize local supply and conservation investments

The Future: Weather Conditions Will Be More Extreme

2015 IRP Update Targets

Local Supplies

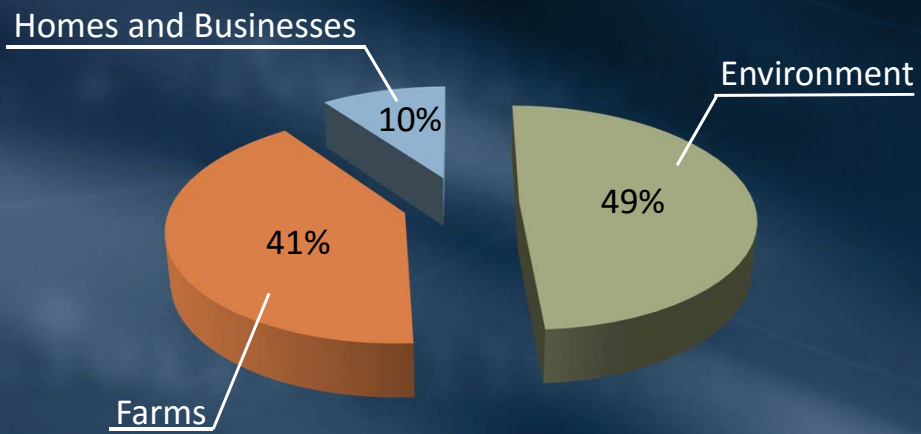
Ensure that the total local supply production target is reached

- 2.43 MAF on average by 2040
- 230 TAF increase projected from 2016 to 2040

Recognize risks and potentially develop additional supplies

Local Supplies (MAF)	2016	2020	2025	2030	2035	2040
Total Local Supply Target	2.20	2.31	2.36	2.39	2.41	2.43

California Water: How It's Used



Source: California Water Plan Update 2013