San Diego County Water Authority
2015
Urban Water Management Plan

IRWM Regional Advisory Committee
August 3, 2016
Background

- Update required by law every 5 years
- Purpose and importance has grown since first required 30 years ago
- Required to be eligible to receive funding or drought assistance from state
- Coordination with member agencies critical element
Water Authority 2015 UWMP Update

- Includes normal and dry year regional demand projections
- Identifies projected water resources mix for the San Diego region
- Assesses supply reliability through scenario analysis
- Foundational document for other Water Authority long-range planning efforts
  - Facilities Master Plan, Long-Range Financing Plan and Integrated Regional Water Management Plan
UWMP’s Relationship to IRWM Program

• 2013 IRWM Plan is an umbrella document that encompasses multiple plans, including Water Authority’s UWMP

• IRWM Program provides funding for various types of local supply projects, including:
  • Recycled water
  • Surface water
  • Groundwater
  • Brackish groundwater
  • Seawater desalination
  • Water conservation
UWMP’s Six Main Elements

- **Demand Forecast**
  - Econometric Model utilizing SANDAG Regional Growth Forecast

- **Water-Use Efficiency**
  - Include passive and active savings
  - Ensure retail compliance with SBX7-7

- **Water Supplies**
  - Water Authority and member agency supplies

- **Water Resource Mix**
  - Resource mix to meet demands in normal and dry water years

- **Scenario Planning**
  - Process to manage supply uncertainties associated with resource mix

- **Shortage Planning**
  - Contingency analysis to address shortages due to drought, catastrophe or other event
What’s Changed from Water Authority
2010 UWMP to 2015 UWMP

- SANDAG Regional Growth Forecasts
  - Lower population estimates due to 2010 Census
  - Slower near-term economic growth resulting from “Great Recession”

- Conservation Savings
  - Bottom-up modeling approach
  - Savings not limited to SBX 7-7 compliance level

- Emergence of Potable Reuse as a significant new planned local supply for the region
  - Greater volumes and more certainty vs. 2010 UWMP
What’s Changed from Water Authority 2010 UWMP to 2015 UWMP

- New Regional Resources On-Line
  - Claude “Bud” Lewis Carlsbad Desalination Plant
  - San Vicente Carryover Storage
Decrease in Water Authority Long-Range Demand Forecast

![Graph showing demand reduction and forecast with a 326 TAF Reduction between 2010 UWMP and 2015 UWMP over the years 2020 to 2040.](Image)
Increasing San Diego County's Water Supply Reliability through Supply Diversification

1991

- **550 TAF**
  - Metropolitan Water District: 550 TAF (95%)
  - 28 TAF (5%)

Total = 578 TAF

2015

- **305 TAF**
  - Metropolitan Water District: 305 TAF (57%)
  - 100 TAF (19%)

Total = 533 TAF

2020*

- **126 TAF**
  - Metropolitan Water District: 126 TAF (21%)
  - 80 TAF (14%)

Total = 588 TAF

2035*

- **88 TAF**
  - Metropolitan Water District: 88 TAF (13%)
  - 80 TAF (12%)

Total = 694 TAF

* Includes verifiable and additional planned local supply projects from 2015 UWMP

(TAF=Thousand Acre-Feet)
2015 UWMP Status

- Adopted by Board on June 23, 2016
- Submitted to DWR on June 28, 2016
- [www.sdcwa.org/uwmp](http://www.sdcwa.org/uwmp)