Orange County Water Reliability Study 2015

Municipal Water District of Orange County



OCWD Groundwater Basin MET & Import Supplies

Ocean &
Brackish
Desalination

Water
Transfers &
Exchanges

Earthquake Emergency Preparedness

BDCP

Water Recycling

Broad Topics Affecting Water Reliability in OC

DECISION MAKING

Stormwater Urban Runoff

Santa Ana River

FUNDING & Willingness to Pay

Climate Variability

Water Use Efficiency



Water Supply Reliability Results from the Collective Work at All Levels

Types of Reliability MET System Supply **MWDOC** Local & OCWD



The OC Water Reliability Study is NOT intended to:

- Dictate what agencies in Orange County do
- Mandate decisions
- Supplant work being performed by others in the County
- Reinvent the Wheel



Approach for the Study

- Use information already developed by others to the extent possible
- Bring ALL of the information together in one location to help inform future decisions
- Add NEW information, as appropriate
- Add analysis and perspective
- Share the reliability outlook for OC

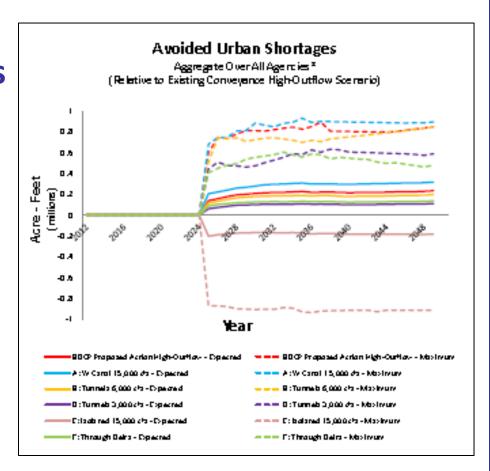


Main Study Objectives

- 1. Evaluate System and Supply Reliability Issues in Orange County
 - What are our areas of deficiencies and what investments will be most beneficial?
- 2. Examine policy issues at MET that can affect investments being made in Orange County
 - What elements should be considered in decisionmaking
- 3. Develop Solutions/Recommendations from an Orange County Perspective
 - What is the payback on investments?

Key Aspects

- 1. Demands and Water Use Efficiency Efforts in the County
- 2. Imported Supplies
- 3. Santa Ana River Supplies by OCWD
- 4. Other Local Supplies
- 5. Decision-Making Framework

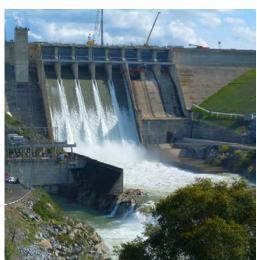


Imported Water Supply Issues

- Typically, imported water supplements local supplies in meeting demands:
 - What is our existing and projected reliability?
 - What can be done to improve the reliability for Orange County?
 - What happens if:
 - BDCP does not move forward?
 - Climate change impacts supplies and demands?
 - We experience extended droughts?
 - The SWP is out of operation for an extended period?

Categories of Project Options

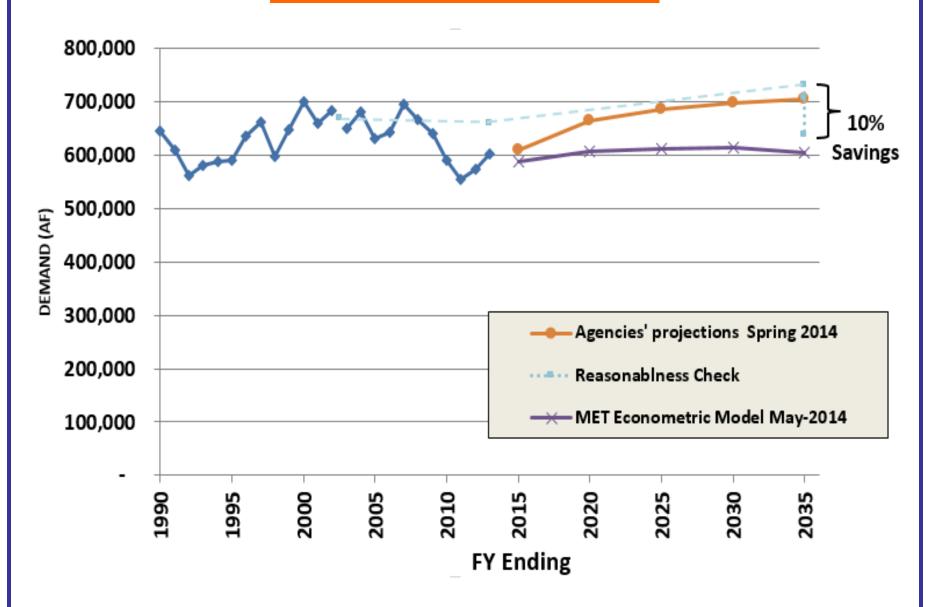
- Purchase MET Water
 - Contract for a Higher Reliability from MET (concept)
- Ocean Desalination
- OCWD Basin Options (Working with OCWD)
 - Conjunctive Use Storage of Imported Water for emergency supplies to South OC
- Recycling Projects (outside of OCWD)
- San Juan Basin Options
- Water Exchanges and Transfers



Types of Questions to be Addressed

- Should we rely only on MET to meet our future needs? Why or why not?
- Is ocean desalination a good investment for OC?
 Why or why not? Under what conditions?
- Can conjunctive use arrangements be further developed to help with emergency supplies to SOC? What benefits accrue to the OCWD basin?
- Should OC be pursuing water transfers and storage options?
- Others

Water Demands in OC



Policy Issues Regarding Imported Supplies

- Local Supply Benefits during water shortage situations
 - MET's allocation formula based on "NEED"
 - "Extraordinary" Water Supplies during water shortages
 - Regional vs Local Benefits of NEW Projects
- Coordination to Avoid Over or Under Investing
 - MET as the Regional Supplier in the Integrated Resources
 Plan
 - Level and Extent of MET Storage for Managing Supplies
 - Incentives Provided by MET

Policy Issues Regarding Imported Supplies

- Future Planning
 - Extended Drought Planning Criteria
 - Water Supply and Storage Buffer Amounts/Risk Analysis
 - Decision-making process



Member Agency Involvement

- OCWD efforts are key with respect to the groundwater basin and SAR Watershed
- Take advantage of work already done by OCWD, MWDOC, IRWD, MNWD, MET, SJBA and others
- Form Workgroup to meet with Consultant on Scope and Approach and on Critical Issues
- Volunteers to date include:
 - SMWD
 - LBCWD
 - IRWD
 - MNWD
 - ETWD

- Mesa Water
- HB
- Anaheim
- OCWD
- MWDOC
- NWRI (if needed)



Schedule

- Meet with Workgroup of Member Agencies to review scope of work
- Consultant Selection to MWDOC Board August 20
- Complete GAP Analysis and begin project evaluations – January 2015
- Complete Study June 2015
- Proceed with Recommendations

Questions

