

APPENDIX 1-F(ii)

Record (attendance, presentation, and videotape) of the Community Information Meetings

**DVDs of recording of May 12, 2005 and August 18, 2005
Community Information Meetings on file with MWDOC Library**

Urban Water Management Plan Meeting

8/18/2005

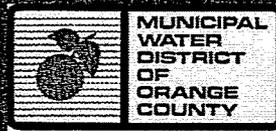
Name	Company	Address	City	State	Zip	Email
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Alicia Wilcox	SCG-RIVERS	AD BRYAN, SUN CREST	CA	CA	92614	Fulltime@Fulltime.com
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**Urban Water Management Plan Meeting
5/12/2005**

Name	Company	Address	City	State	Zip	Email
ED BOYCE	MUDOC					
Richard Lopez		9062 Kukulaj Dr.	Huntington Beach	ca	92646	
Jeff Lazenski	City of La Habra	621 West Lambert Rd	La Habra	CA	90631	jeff@lahabracity.org
John STEPHENSON	MANWD	37500 La Brea Rd.	Laguna Niguel	ca	92677	stephen@manwd.com
DEAN ALBRIGHT	HBST	17301 BREPA LN	HB	CA	92644	
Karen Tschetter	Dean Foods	6400 Keyo Ave	Brea Park	CA	92620	Karen.Tschetter@deanfoods.com
Howard Tolusow	CITY OF HB					
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Sean Finnigan	MWD		Brea Park	CA		
NINA SPANGLER	RISK MANAGEMENT PROF	2705 Tuckermud Rd #220	Mission Viejo	CA	92691	nina@spanglerrisk.com
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*Municipal Water District
of Orange County*

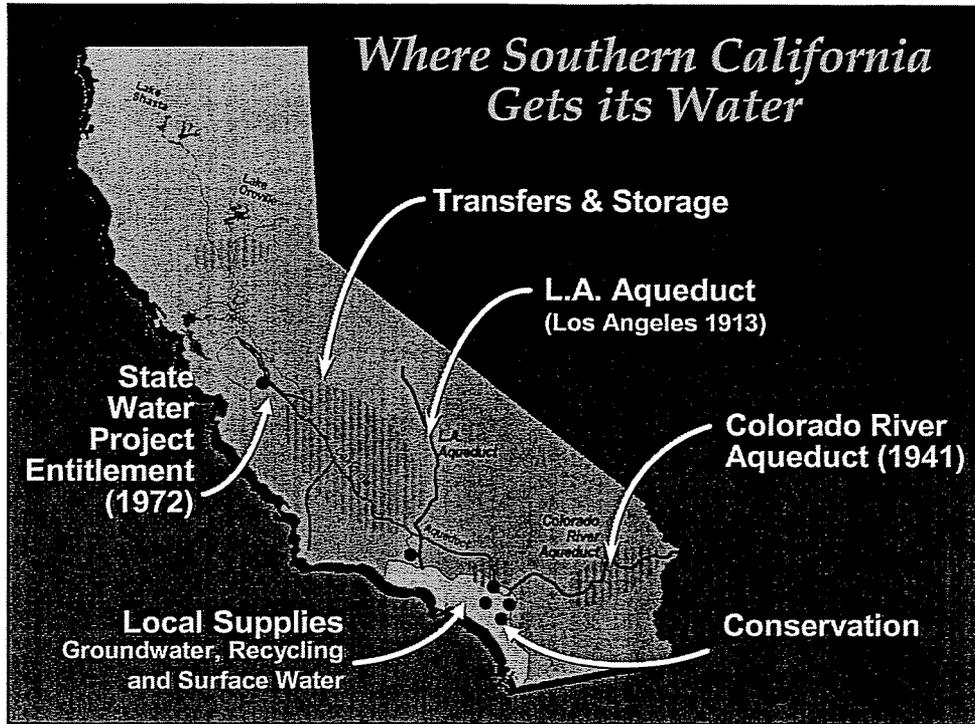
*Regional Urban Water
Management Plan*



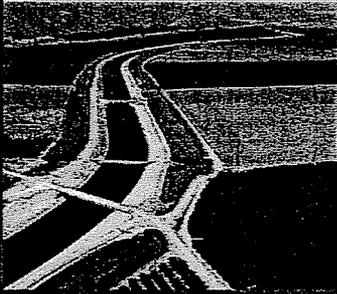
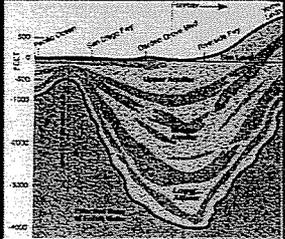
*Municipal Water District
of Orange County*

*Water Reliability Challenges
and Solutions*

Matt Stone
Associate General Manager



Orange County's Water Sources

Imported Water

- From Northern CA, Colorado River
- Provided by Metropolitan Water District of Southern California
- Managed by Municipal Water District of Orange County
- Anaheim, Fullerton, Santa Ana

Groundwater

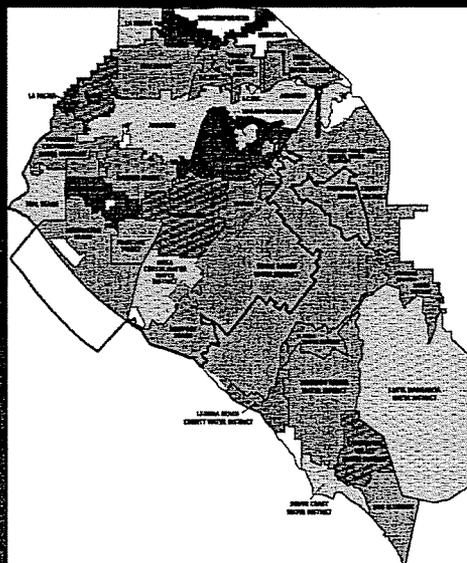
- Managed by O.C. Water District
 - Filled with Santa Ana River and surplus imported water
- San Juan Basin
- La Habra Basin

Municipal Water District of Orange County

- Imported water wholesaler and resource planning agency
- Formed in 1951
- Metropolitan Water District of Southern California member agency
- Governed by seven-member elected Board of Directors
- 25 fulltime employees

Municipal Water District of Orange County

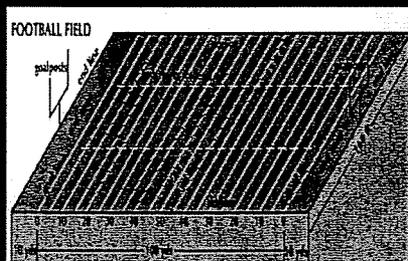
- 30 cities, retail water agencies
- Service area population:
2.2 million
- Service area:
600 square miles



Working with MWDOC's 30 Member Agencies

- Represent Orange County interests at Metropolitan Water District
- Water reliability efforts
- Emergency preparedness
- Grant funding
- Speak as "one voice" in Sacramento, Washington D.C.
- Cooperative public education programs

Acre-foot of Water

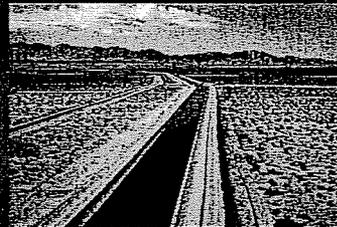


- 326,000 gallons
- Enough water to cover 1 acre to a depth of 1 foot
- One-year supply of water for two families of four

Orange County Water Facts

700,000 acre-feet of water per year

- North/Central County
 - Groundwater
 - Imported water
 - Recycled water
- South County
 - Imported water
 - Recycled water
 - Limited groundwater



Cost of Water (per acre-foot)

- Imported.....\$494 - \$575
 - Colorado River
 - State Water Project
- Local Groundwater.....\$286 - \$311
- Water Use Efficiency.....\$165 - \$730
- Water Reclamation..... \$500 - \$1,200
- Seawater Desalination..... \$1,000 - \$1,300
- Impaired Groundwater Cleanup
(via groundwater treatment).....\$300 - \$700

Challenges to Northern California Water

San Francisco Bay/ Sacramento - San Joaquin River Delta

- Hub of State's water system
- Degraded ecosystem
- Water quality issues
- Supply impacted by endangered species
- Long-term stability of levee system

State
Water
Project

Sacramento

San Francisco

Los
Angeles
Aqueduct

Los
Angeles
Colorado
River
Aqueduct

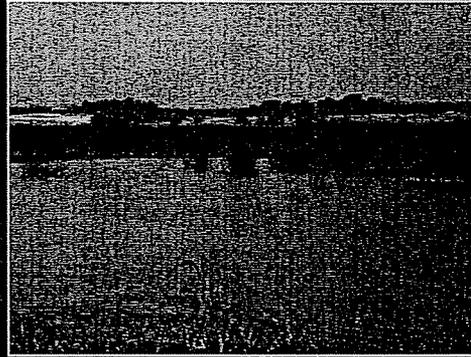
Challenges to Colorado River

- Growth in other basin states
- Over allocation
- Impact of drought
- Mexico
- Water quality



Local Groundwater Issues

- Groundwater basin over-drafted
- Reliability of Santa Ana River
- Limited groundwater in South County
- Opportunities to clean up poor quality groundwater sources



Factors Impacting Orange County's Future Water Supplies and Cost

- Increasingly stringent water quality requirements
- Water security investments
- Need to make appropriate investments to ensure water reliability
- Competition for supplies among agricultural, urban and environmental needs
- Increased cost for imported water supplies
- Aging water facilities and infrastructure
- Population growth and increasing demands

*Planning + Investment =
Reliability*

*Orange County's
Water Reliability Efforts*

- Develop additional storage for emergencies
- Improve interconnections in regional system
- Develop new sources of water that also improve system reliability
- Collaboration with water retailers
- Alternative sources of supply
 - San Juan Capistrano Desalter
 - Ocean water desalination
 - Groundwater Replenishment System (recycled water)
 - Other water recycling programs

Water Use Efficiency

- \$6-\$7 million spent annually on programs
- Collaborative partnerships
 - U.S. Bureau of Reclamation
 - Environmental Protection Agency
 - State of California
 - Metropolitan Water District
 - Orange County Water District
 - Orange County Sanitation District
 - Local retail agencies
 - Cities
 - County of Orange

Water Use Efficiency (cont'd)

- Ultra low-flow toilets, showerheads
- Water-saving clothes washers
- Commercial, industrial and institutional plumbing fixture rebates
- Industrial process efficiency studies
- Weather-based irrigation controllers
 - SmarTimer Program
- Landscape Performance Certification Program
- Residential landscape design, irrigation classes

“Perhaps no single issue facing California today is more controversial or more complex than the proper stewardship of the state’s water resources.”

“California Water – Myths, Facts, Reality and the Future”
Former Senator Jim Costa

Overview

2005 Regional Urban Water Management Plan (RUWMP)

I-Wen Yang
Principal Engineer

Statewide Urban Water Management Planning

- Coordinated statewide effort conducted every five years
 - Mandated by California law
- Quantifies statewide water demand and resources
- Provides framework to better manage statewide water resources
- Ensures water resources can accommodate planned statewide growth

Goals of Regional Planning Efforts

- Assist and encourage integrated water management planning
 - Can be a key component of the Integrated Regional Water Management Plan (IRWMP)
- Serve as a long-range planning document
 - Identify areas for appropriate investments in water reliability
- Closely tie land-use planning and water supply reliability
 - Serve as a source document for cities and counties as they prepare their General Plans

Goals of Regional Planning Efforts

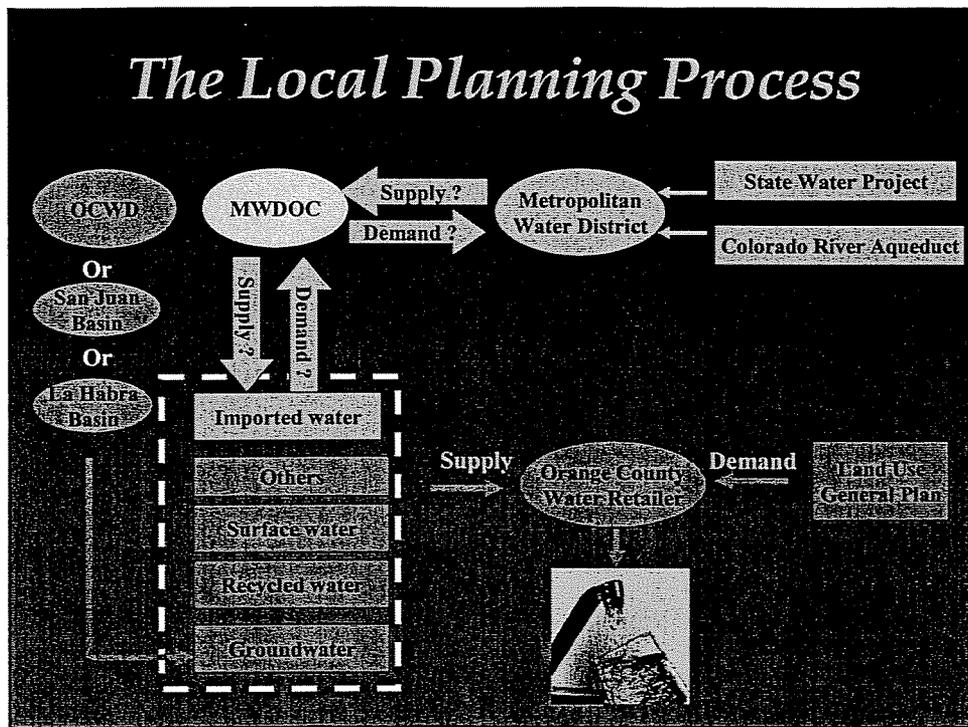
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- Provide source documents upon which water supply agencies complete:
 - Water supply assessments
 - Verification of water supply

Planning Participants

- Urban water supplier
 - “...either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually”*
- Land use planning agency
- General public

The Local Planning Process



Topics to be Included

- Sources of water
- Water demand
- Reliability of water service
- Impact of water quality on reliability
- Planning tools/programs currently in place to maximize resources
- Water conservation efforts
- Contingency plan for water shortages
- Potential investments
- Community involvement and input

Public Involvement in Local Planning Effort

- Submit comments as we begin planning process
- Give input as we compile Orange County plan
- Participate in meetings
- Review, comment on Draft Plan

Schedule

Milestone	Date
First Information Meeting	May 12
Technical Meetings with MET and Member Agencies	May and June
Report Writing	June and July
Second Information Meeting	Mid July
Internal Review Draft; DWR Pre-review	August
Presenting Draft Plan to MWDOC P&O Committee	September 5
Distribute Draft Plan (Begin 30-day comment period)	Mid September
Public Hearing (End comment Period)	Mid October
Presenting Final Plan to MWDOC P&O Committee	November 7
MWDOC Board Adopts Plan	November 16
Submit Plan to DWR	December

Plan Oversight

- Department of Water Resource
 - Reviews plans for completeness
 - Notifies urban water suppliers
 - Provides report to CA legislature detailing status of UWMPs

What's Important to You?

MWDOC Contact

Michelle Tuchman

Municipal Water District of Orange County

10500 Ellis Ave

Fountain Valley, CA 92728

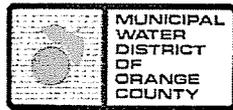
714/593-5014

mtuchman@mwdoc.com

*Municipal Water District
of Orange County*

*Update on
2005 Urban Water
Management Plan*

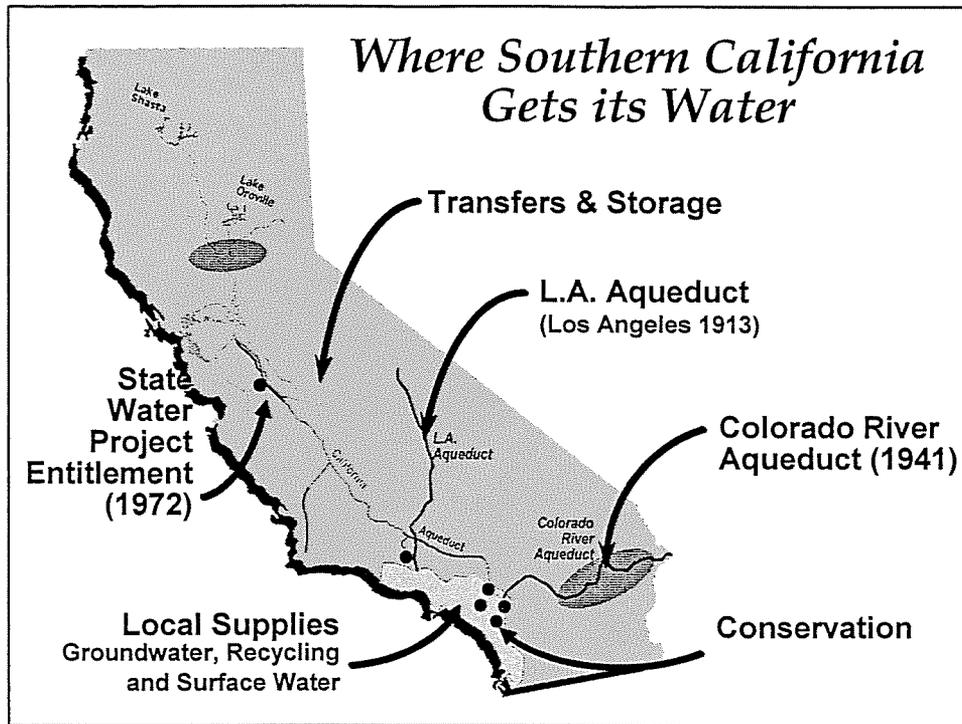
August 18, 2005



*Municipal Water District
of Orange County*

*Update on
2005 Urban Water
Management Plan*

Matt Stone
Associate General Manager



Orange County's Water Sources

Imported Water

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Groundwater

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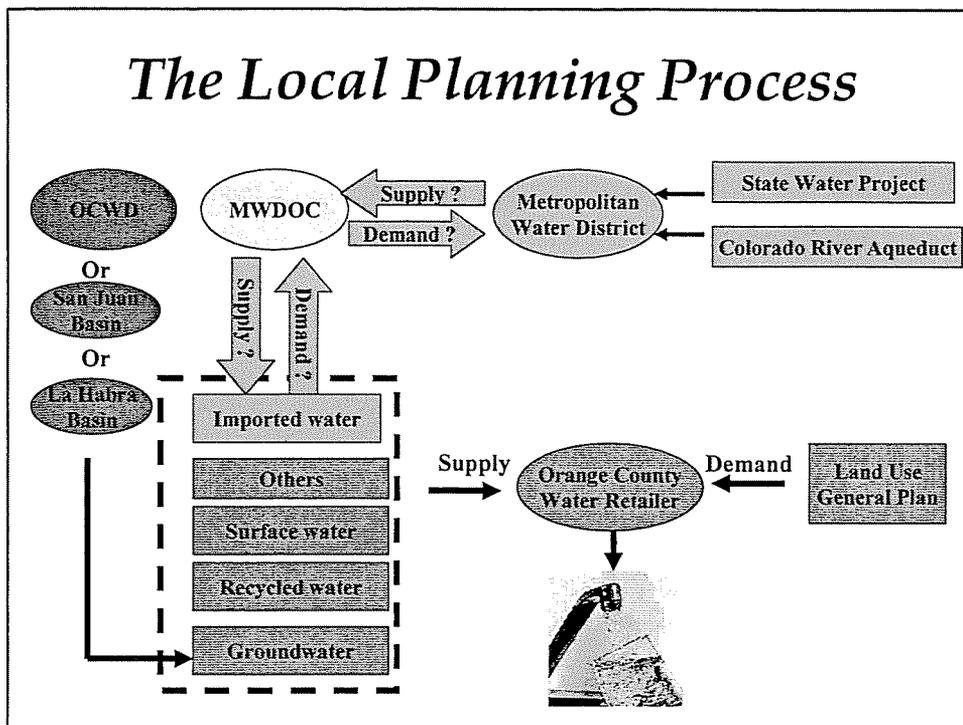
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- Contingency plan for water shortages
- Potential supply and reliability investments
- Community involvement and input

MWDOC's UWM Plan - Overview

- MWDOC service area only
- Information sources
 - Metropolitan Water District of So. California
 - Member agencies (retail agencies)
 - Orange County Water District (O.C. groundwater basin)
- Best available data at time of drafting
- Every effort made to coordinate information
- In event of discrepancy, local retail agency plan should be consulted

MWDOC's UWM Plan - Overview

(cont'd)

- Current and planned supplies only
 - Current – Imported water, surface water, groundwater basin
 - Planned – Groundwater Replenishment System
- Assess potential supplies
 - Transfers, desalination
- Plan does not eliminate need for project environmental review

May Information Meeting Recap

What's Important to You?

- Water Supply
- Water Quality
- Water Recycling
- Population Growth/Water Demand
- Other Areas of Concern

Progress Report:
Update

*2005 Urban Water
Management Plan (UWMP)*

August 18, 2005

I-Wen Yang
Principal Engineer



*Areas of Concern Addressed in
the Update of the Plan*

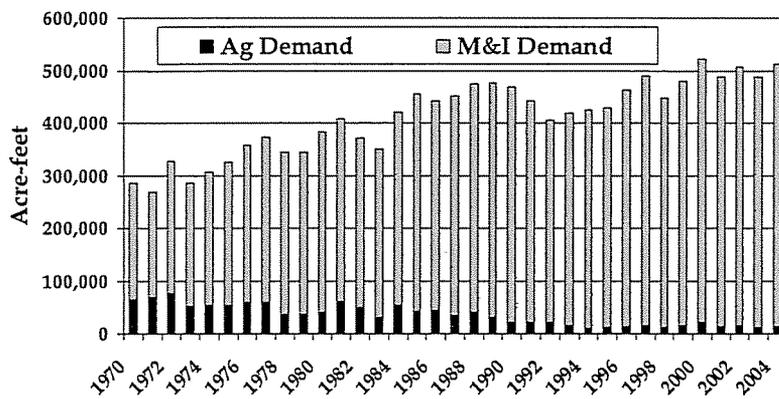
- Water Demand
- Water Supply
- Service Reliability Analysis
- Water Recycling
- Water Quality
- Water Conservation Programs



Water Demand

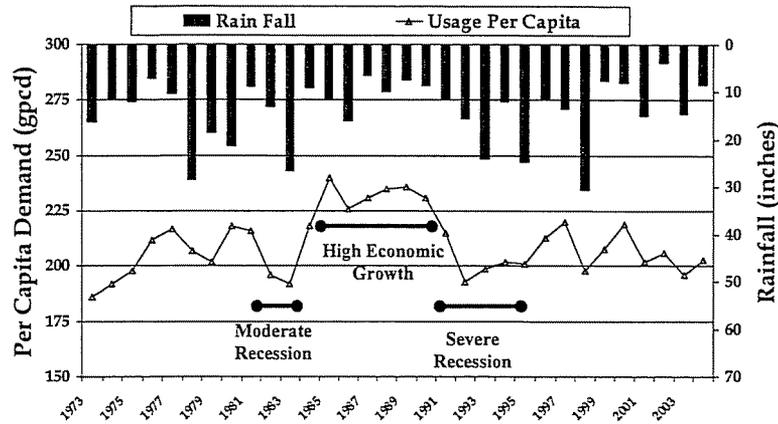


Water Demand Historical MWDOC Water Demand



Water Demand

MWDOC Historical Per Capita Use (gallon per person per day)



Water Demand

Water Demand Projection

- Municipal & Industrial Use (Two approaches were considered)
 - MWD-MAIN Forecast Model
 - MWDOC Member Agencies Projection
- Agriculture Use
 - MWDOC Member Agencies Projection



Water Demand

Approach 1 - MWD-MAIN

- Developed by Metropolitan Water District of Southern California
- Econometric based
 - Statistical – incorporates demographic and economic variables from regional planning agencies -Southern California Association of Governments (SCAG) and San Diego Association of Governments (SANDAG)
 - End-use – Estimates of water use by sectors
- Update with New SCAG/SANDAG forecasts every few years



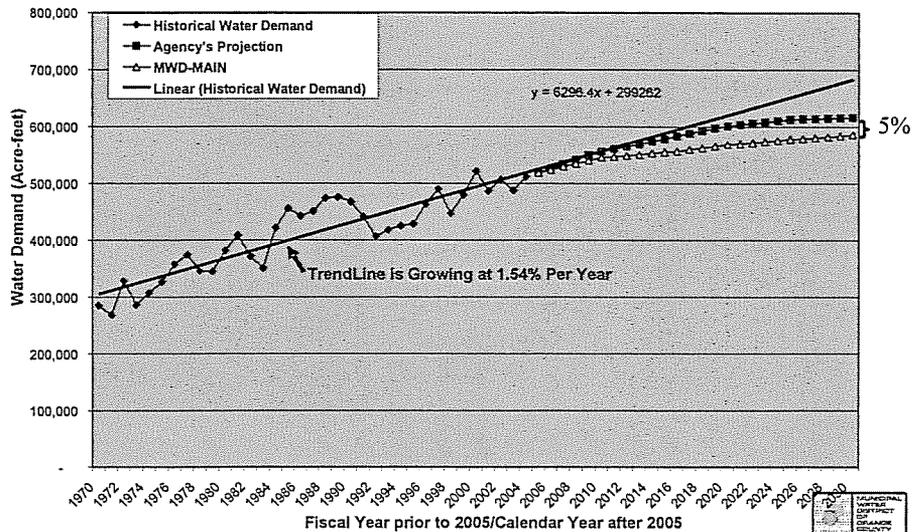
Water Demand

Approach 2 - Agency's Projection

- Requested 25-year retail demand projections from 30 MWDOC member agencies
- Methodologies, assumptions underlying projections vary from agency to agency, but all reflect an in-depth knowledge of the individual agency's service area
- Update annually



Water Demand Compare M&I Demand Projection MWD-MAIN vs. Agencies' Projections



Water Demand

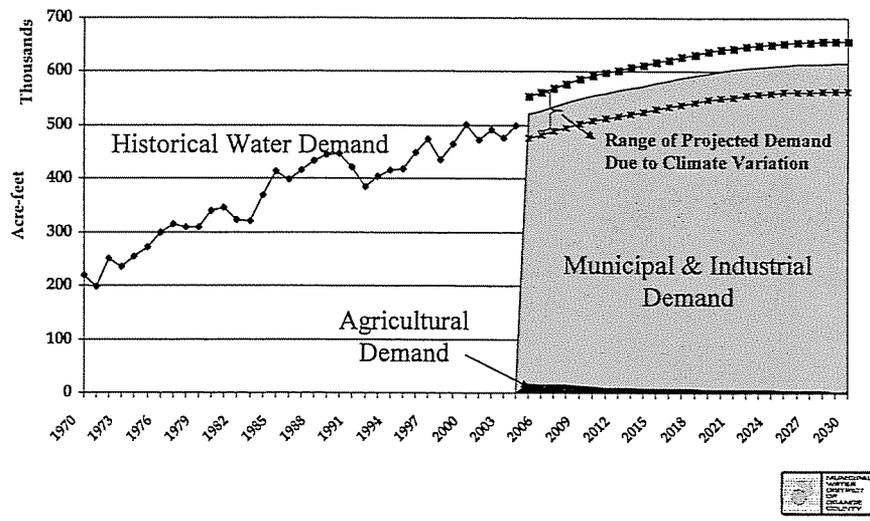
Deciding on M&I Demand Projection

- Results from the two approaches are close – approximately 5% difference
- Our Plan uses Agencies' Projections for the following reasons:
 - Yields to higher projection – more conservative
 - UWMP Act provides that a water wholesaler should quantify the availability of water based on projection done by its retail agency (Water Code Section 10631(k))
 - Maintain “consistency” in the regional planning



Water Demand

Summary - Retail Water Demand Projection



Water Demand

Summary - Demand Projection

- Future demand growth will increase at an average of 0.5% per year, as compared to historical demand growth of approximately 1.54% per year
 - More limitation on new land development (cost and environmental restriction)
 - Continued commitment of conservation
- Municipal and Industrial (M&I) demand will continue to grow; Ag demand will continue to decline (less than 0.5% of total demand by 2030)
- Long-term conservation measures are expected to maintain the M&I per capita use at approximately 210 gallon per capita per day



Water Supply



Water Supply

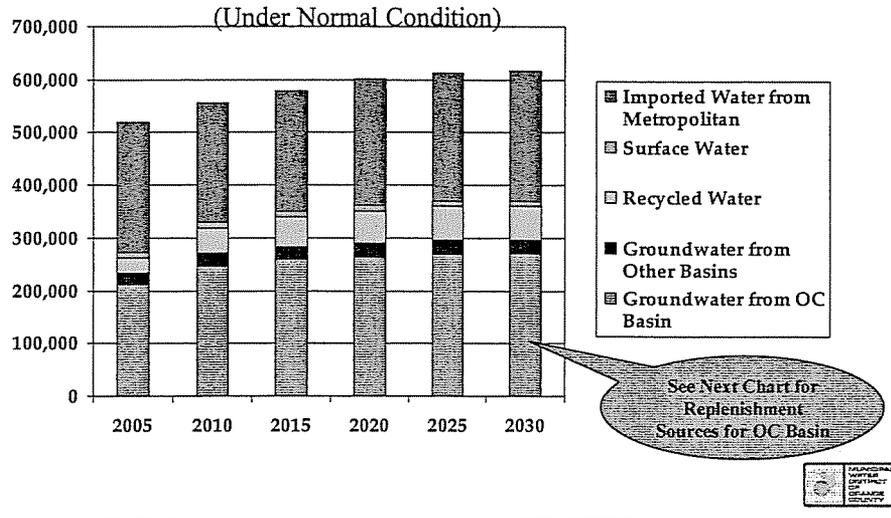
Sources of Water Supply Discussed in the Plan

- Local
 - Groundwater
 - Surface
 - Recycled Water
- Imported
 - Metropolitan Water District of Southern California
- Potential
 - Transfer
 - Desalination



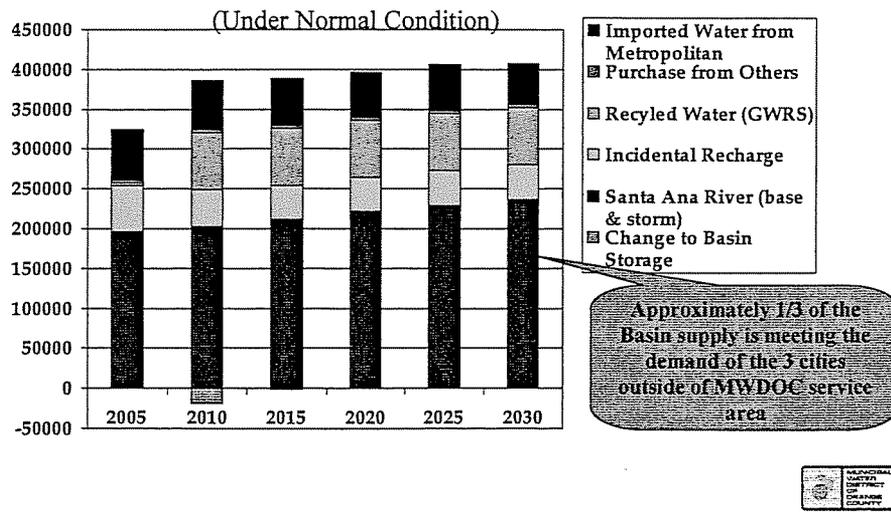
Water Supply

*Current and Planned Water Supplies
for Direct Consumption*



Water Supply

*Current and Planned Water Supplies
for Replenishing Orange County Groundwater Basin*



Water Supply

Potential Supplies

- Currently not included in the existing and planned resource mix:
 - Transfer and Exchange
 - Desalination



Water Supply

Transfer and Exchange Opportunities

- MWDOC and some member agencies are exploring long-term relationships with water suppliers in Northern California
 - South Feather Water and Power Agency
- Possible transfer of water across Metropolitan member agencies boundaries
 - City of Long Beach (recycled water)



Water Supply

Desalination Opportunities

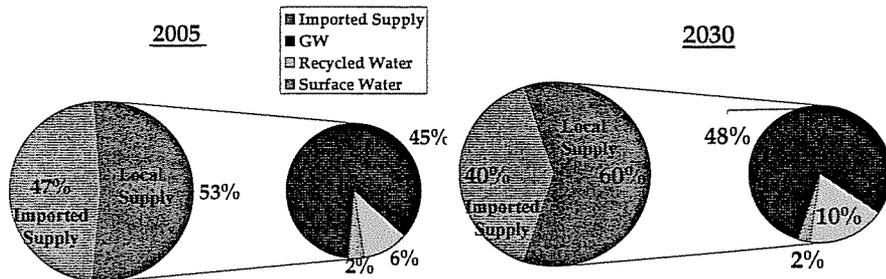
- 3 potential projects currently under investigation in MWDOC service area:
 - Poseidon Resources Corporation Proposed Project in Huntington Beach
 - Joint San Diego/Orange County Proposed Regional San Onofre Project
 - MWDOC Proposed Dana Point Ocean Desalination Project



Water Supply

Summary – Projected Water Supply

MWDOC and its member agencies are collectively working to improve water reliability by developing new local supplies, and thereby reduce the dependence on imported supply over time



Service Reliability Analysis



Water Reliability Analysis

Service Reliability Analysis

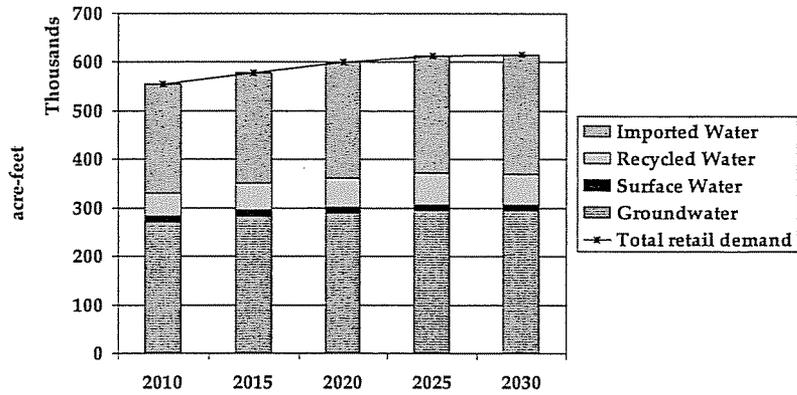
Plan assesses the reliability of MWDOC's water service to its customers during three water year scenarios:

1. Normal water year
2. Single dry water year
3. Multiple dry water year



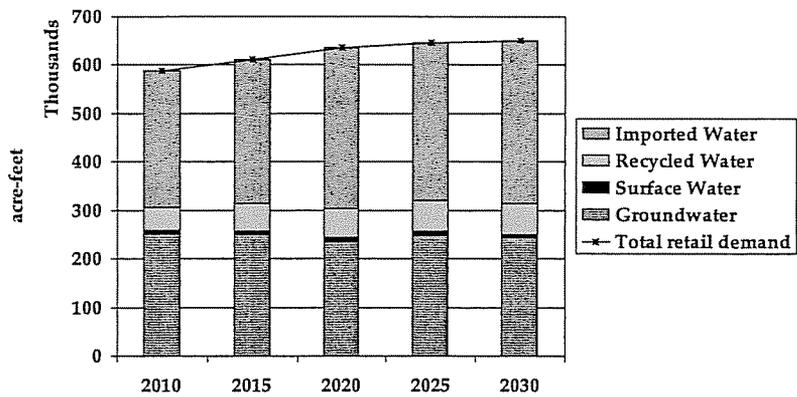
Water Reliability Analysis

Normal Water Year



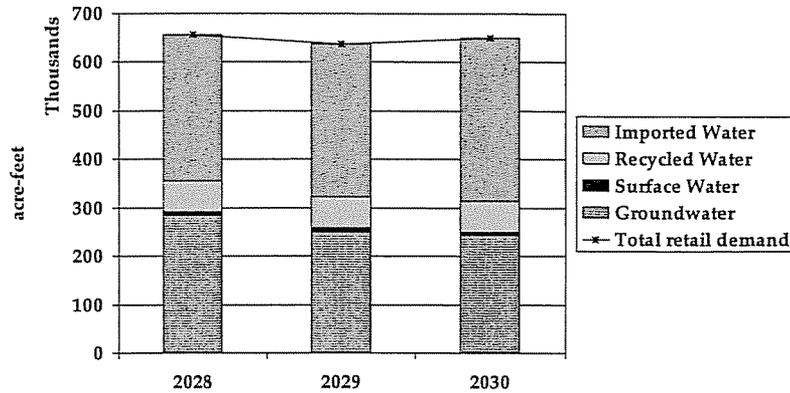
Water Reliability Analysis

Single Dry Year



Water Reliability Analysis

Multiple Dry Year Ending 2030



Water Reliability Analysis

Summary

- Local and imported supplies are projected to meet 100% of the demand in MWDOC service area under all three water year scenarios:
 - Normal year
 - Single dry year
 - Multiple dry year

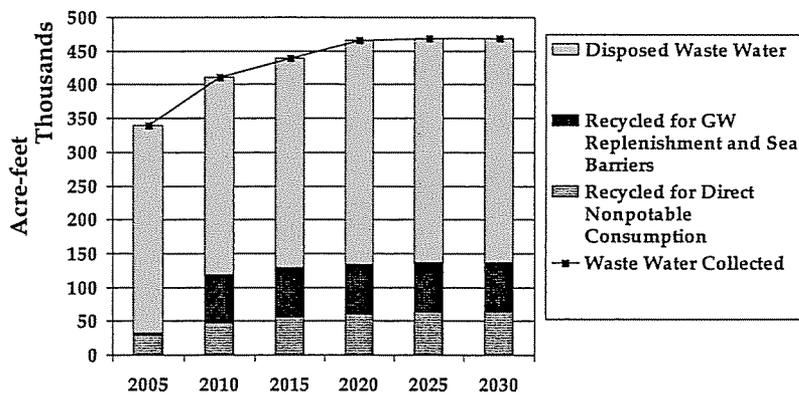


Water Recycling



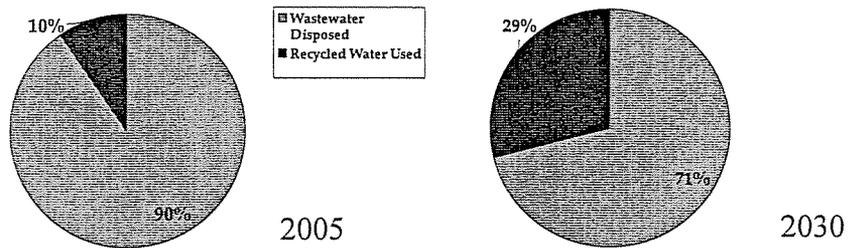
Water Recycling

Current and Projected Waste Water and Recycled Water



Water Recycling

Current, Projected Percent of Recycled, Disposed Wastewater



Water Recycling

Barriers to Expansion of Existing Recycled Water Uses

- Cost
 - Distribution network
 - Site retrofits
 - Operations and maintenance
- Public acceptance
- Water quality
 - Total Dissolved Solids (TDS)
 - Brine disposal
 - Health department regulation



Water Recycling

Encouraging Recycled Water Use

- Funding
 - Incentive programs and grants from local, state, and federal agencies
- Partnerships
 - Groundwater Replenishment System (OCWD, OCSD)
- Regulatory
 - Streamline regulatory requirements
- Brine Line Construction
 - State and federal assistance for the construction of brine lines
- Research
 - Address public concerns, develop new technology for cost reduction, and assess health effects to protect the public



Water Recycling

Summary – Future of Recycled Water

- Recycled water will become an important source of supply over time
- Programs and funding on the federal, state, and local level encourage the development of new recycling projects
- Cost and public acceptance are the two main stumbling blocks



Water Quality



Water Quality

Overview

- Reliability of water service not expected to be impacted by any known water quality issue in the region
- MWDOC does not own or operate any water facilities.
- Water quality monitoring is conducted by
 - OCWD - Orange County Groundwater
 - Metropolitan - imported water
 - Local agencies - other local supplies



Water Quality

Orange County Groundwater Basin

- Primary Drinking Water Standard Issues
 - Nitrate
 - Out of 500 plus production wells in the basin, 5 were detected with nitrate concentration exceeding the maximum contaminant level (MCL) set by Department of Health
 - Restoration Projects
 - Garden Gove Nitrate Removal Project
 - Tustin Main Street Treatment Plant



Water Quality

Orange County Groundwater Basin

- Primary Drinking Water Standard Issues *(cont'd)*
 - Volatile Organic Compounds (VOC)
 - Localized plumes were found within Irvine, Fullerton, Santa Ana
 - Restoration projects
 - River View Golf Club (existing)
 - Irvine Desalter (under construction)
 - Anaheim and Fullerton VOC Cleanup (Under planning)
 - MTBE
 - 2 wells were found exceeding MCL and are closed
 - MTBE was phased out as a gasoline additive
 - OCWD continues the monitoring effort to prevent future contamination



Water Quality

Orange County Groundwater Basin

- Secondary Drinking Water Standard Issues
 - Total Dissolved Solids (TDS)
 - Water recharge to basin has TDS greater than water extracted, creating long-term salt imbalance
 - Salt management projects
 - Irvine Desalter
 - Tustin Desalter
 - Other efforts
 - OCWD and MWDOC are working with Metropolitan to provide a blend of SWP and Colorado River water that will result in lower TDS
 - GWRS will provide a source of low TDS recharge water
 - Work with upper Santa Ana River Watershed to reduce TDS levels in the river



Water Quality

Orange County Groundwater Basin

- Secondary Drinking Water Standard Issues *(cont'd)*
 - Colored Groundwater
 - Located in deeper aquifer near the coast
 - Colored by the sediment of ancient redwood trees
 - Restoration projects
 - Mesa Consolidated Water District Colored Water Treatment
 - Irvine Ranch Water District Colored Water "Deep Aquifer Treatment System"



Water Quality

Orange County Groundwater Basin

- Unregulated “Notification Level” Issues
 - Pharmaceuticals, Personal Care Products, and Endocrine Disruptors
 - Impacts of traces of these compounds under research
 - OCWD is tracking potential regulations to determine impact on treatment process
 - GWRS treatment process removes these compounds
 - N-nitrosodimethylanmine (NDMA)
 - Found in one well – Mesa Consolidated Water District (MCWD)
 - MCWD operates an NDMA facility to remove the compound
 - Treatment process in GWRS removes NDMA



Water Quality

Imported Water

- Primary Standard Issue - Total Organic Carbon and Bromide
 - Mainly from State Water Project (SWP), when combined with disinfectants, such as chlorine, creates disinfection byproducts (DBPs) – carcinogen
 - Management actions:
 - Replace current process with ozone treatment at two Metropolitan treatment plants that solely treat SWP
 - Blend the combination of SWP and Colorado River (CRA) water to reduce levels of DBPs below regulatory requirements at the other 3 plants
 - Metropolitan plans to install ozonation facilities at the remainder of its treatment plants by 2009



Water Quality

Imported Water

- Secondary Standard Issue - Total Dissolved Solids
 - CRA has high TDS levels (averaging 650 mg/L) and SWP has relatively lower TDS level (250 to 325 mg/L)
 - Management actions:
 - Metropolitan adopted a Salinity Management Plan
 - Goal – 500 mg/L
 - Blending its source of water to meet salinity goals
 - Salinity Source Control Measures



Water Quality

Imported Water

- Notification Level Issue - Perchlorate
 - Detected at low levels in CRA and was traced to its source at Henderson, Nevada
 - Management Actions:
 - Remediation is conducted by Nevada Department of Environmental Management
 - Actively advocate for and track remediation efforts in the Las Vegas Wash
 - Take proactive approach to ensuring no water supply losses



Water Quality

Other Local Supplies

- City of San Juan Capistrano
 - Extract groundwater from San Juan Basin; high manganese, iron, and TDS levels
 - Installed wells with treatment capabilities, recently completed a desalter plant to reduce these contaminants in the supply
- City of San Clemente
 - Installed treatment facilities to remove high iron, manganese concentrations from the groundwater extracted from local basin
- Irvine Ranch Water District
 - Poor quality of local groundwater outside of Orange County Groundwater Basin. Current management strategies have taken this into account; would not rely on this source to meet its supply reliability



Water Quality

Other Local Supplies (cont'd)

- City of La Habra
 - Required to treat its local groundwater to reduce iron and hydrogen sulfide
- Santiago County Water District
 - Closed one well as local groundwater requires additional treatment; current water management plan does not incorporate this portion of supply
- Moulton Niguel Water District
 - Occasionally has complaints re odor or debris in the recycled system
 - Condition usually is alleviated by flushing the system



Water Quality

Summary

All known and foreseeable water quality issues are already incorporated into existing management strategies and are not expected to have an impact on water supply reliability



Water Conservation



Water Conservation

MDWOC's Main Efforts in Facilitating Conservation Programs

- Regional Program Implementation
 - Develop, obtain funding for, and implement regional Best Management Practice programs on behalf of all retail agencies in Orange County
- Local Program Assistance
 - Assist retail agencies to develop and implement local programs within their individual service areas
- Research and Evaluation
 - Research and evaluate potential and existing conservation programs; 3 studies completed are:
 - Orange County Saturation Study, 2001
 - Evaluation of the Landscape Performance Certification Program, 2004
 - Residential Runoff Reduction Study, 2004



Overview - Best Management Practices

BMP #	Efficiency Measures	Applies to:		MWDOC Regional Program
		Retailer	MWDOC (Wholesaler)	
1	Home Water Surveys	✓		x
2	Residential Plumbing Fixtures	75% Saturation Goal Achieved in 2001		
3	System Water Audits, Leak Detection and Repair	✓		✓
4	Metering with Commodity Rates	✓		
5	Large Landscape Conservation Programs	✓		✓
6	High-Efficiency Washing Machine Rebate Program	✓		✓
7	Public Information Program	✓	✓	✓
8	School Information Programs	✓	✓	✓
9	Commercial, Industrial, and Institutional Programs	✓		✓
10	Wholesale Agency Assistance Programs		✓	✓
11	Conservation Pricing	✓	✓	✓
12	Conservation Coordinator	✓	✓	✓
13	Water Waste Prohibition	✓		✓
14	Residential ULFT Replacement Programs	✓		✓



Water Conservation

Regional Programs to Facilitate Best Management Practice (BMP)

- **BMP #1 – Home Water Survey**
 - SmarTimer Rebate Program (since 2004)
 - Residential customers
 - Saves 41 gallons per day per installation
 - Reduces runoff and pollution by 49%
 - Protector Del Agua Irrigation Management Training (Residential)
 - Education on landscape water efficiency practices
 - Program consists of a series of four 4- hour classes:
 - Basic Landscape Design
 - Landscape Plants
 - Landscape Sprinkler Systems
 - Landscape Watering, Fertilizing



Water Conservation

Regional Programs to Facilitate Best Management Practice (BMP)

- **BMP #2 – Residential Plumbing Retrofit**
 - *2001 Orange County Saturation Study*
 - Achieved low-flow showerhead saturation at nearly 100% and 94% in single- and multi-family homes respectively
 - Redirect resources to other programs



Water Conservation

Regional Programs to Facilitate Best Management Practice (BMP)

- **BMP #3 – System Water Audits, Leak Detection, and Repair**
 - Annually the Orange County Water Agencies Water Rates, Water System Financial Information Survey
 - Estimates the volume and percent of unaccounted-for-water for each retail agency in the county



Water Conservation

Regional Programs to Facilitate Best Management Practice (BMP)

- **BMP #5 – Large Landscape Conservation Programs**
 - Protector Del Agua Irrigation Management Training for Commercial Participants
 - Provide four consecutive classes in landscape water management:
 - Irrigation Principles
 - Irrigation System Troubleshooting
 - Controller Programming
 - Irrigation Scheduling
 - Landscape Performance Certification Program
 - Assist water conservation through large landscape (approximately 765 gallon per meter per day)
 - Reduce volume of waste and to recycle organic materials for benefit of landscape
 - Identify landscape run-off sites and provide site-by-site remedies
 - SmartTimer Rebate Program



Water Conservation

Regional Programs to Facilitate Best Management Practice (BMP)

- BMP #6 – High Efficiency Washing Machine Rebate Program
 - Sponsor a regional rebate program, where Orange County residents are eligible to receive a \$100 rebate when they purchase a new High Efficiency Clothes Washer
 - 13,900 High Efficiency Clothes Washers have been installed in single-family homes through this program
 - These retrofits are saving more than 160 acre-feet of potable water per year



Water Conservation

Regional Programs to Facilitate Best Management Practice (BMP)

- BMP #7 – Public Information Programs
 - Public Affairs Workgroup
 - Poster/Slogan Contest
 - Local and Regional Events
 - Speakers Bureau
 - Facility Inspection Trips
 - Information Materials
 - Water Quality Reports
 - Media Relations



Water Conservation

Regional Programs to Facilitate Best Management Practice (BMP)

- **BMP #8 – School Education Programs**
 - MWDOC implemented one of the most successful and well-recognized water-education curriculums in Southern California
 - For more than 30 years, MWDOC teachers have educated more than 2.5 million Orange County students from K-12 about the water cycle, the importance of water, and our personal responsibility as environmental stewards
 - In 2004, MWDOC formed a partnership with the *Discovery Science Center* that has allowed both organizations to reach more Orange County students and provide them with even greater educational experience in the areas of water and science



Water Conservation

Regional Programs to Facilitate Best Management Practice (BMP)

- **BMP #9 – Commercial, Industrial, and Institutional Programs**
 - Sponsor "Save water – Save a Buck" Program
 - Began in 2002 and offers rebates to assist commercial, industrial, and institutional customers in replacing high-flow plumbing fixtures with low-flow fixtures
 - Retrofit devices under this program:
 - Ultra-Low-Flush Toilet
 - Ultra-Low-Flush Urinal or waterless Urinal
 - Flush Valve Retrofit Kit
 - Coin/Card-Operated High Efficiency Commercial Clothes Washer
 - Cooling Tower Conductivity Controller
 - Hospital X-ray Film Processor Re-circulating System
 - Water Pressurized Broom
 - This Program has retrofit more than 5,800 fixtures and saved more than 380 acre feet of potable water per year



Water Conservation

Regional Programs to Facilitate Best Management Practice (BMP)

- BMP #10 – Wholesale Agency Assistance Program
 - Implement Regional Programs
 - Provide Assistance to Local Agencies
 - Conduct research and evaluate existing and new programs



Water Conservation

Regional Programs to Facilitate Best Management Practice (BMP)

- BMP #11 – Conservation Pricing
 - Publish annually the Orange County Water Agencies Water Rates, Water System Operations, and Financial Information Survey
 - The survey documents rates charged and type of rate structures used by each retail agency
 - Surveys done over time show a slow progression of the retail agencies in Orange County moving away from uniform rates



Water Conservation

Regional Programs to Facilitate Best Management Practice (BMP)

- BMP #12 – Conservation Coordinator
 - Regional Coordinator
 - MWDOC Staff – Joe Berg (714) 593-5008



Water Conservation

Regional Programs to Facilitate Best Management Practice (BMP)

- BMP #13 – Water Waste Prohibitions
 - 2004 survey review and assess the existing prohibition regulation enacted by retail agencies
 - Finding showed most of the retail agencies were only in partial compliance with BMP requirement.
 - MWDOC staff work with retail agencies to develop a menu to augment existing local regulations to assure local regulation to be in compliance with BMP.
 - Water waste prohibition also reduces urban runoff



Water Conservation

Regional Programs to Facilitate Best Management Practice (BMP)

- BMP #14 – Residential Ultra Low Flush Toilet (ULFT) Replacement Programs
 - Has continuously implemented regional Ultra Low Flush Toilet Rebate and/or Distribution programs to residential homes over the past 13 years.
 - Develop, print, and provide marketing materials such as water bill inserts, direct mailers, or brochures for retail agencies to distribute to their customers
 - More than 351,000 high volume flush toilets have been replaced with ULFT saving more than 11,700 acre feet of potable water per year



Water Conservation

Summary

Though water savings is not quantified, MWDOC believes in the benefits of water use efficiency and is committed to continuing its sponsorship and participation in aggressive conservation programs



Schedule

Milestone	Date
First Information Meeting	May 12
Technical Meetings with MET and Member Agencies	May and June
Report Writing	June and July
Second Information Meeting	Mid Aug
Internal Review Draft; DWR Pre-review	August
Presenting Draft Plan to MWDOC P&O Committee	September 6
Distribute Draft Plan	Mid September
Public Hearing (End comment Period)	Mid October
Presenting Final Plan to MWDOC P&O Committee	November 7
MWDOC Board Adopts Plan	November 16
Submit Plan to DWR	December



What's Next?

- ◆ Release draft Plan for public review
- ◆ Finalize the Plan based on comments received
- ◆ Adopt and file the Plan



Comments and Questions



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