

TRI-CITY WATER SAVERS

City of Dana Point ♦ City of San Clemente ♦ City of San Juan Capistrano ♦ South Coast Water District

WATER SUPPLY UPDATE

Mike Dunbar, General Manager
South Coast Water District
H2O for HOAs Water Forum
March 22, 2012

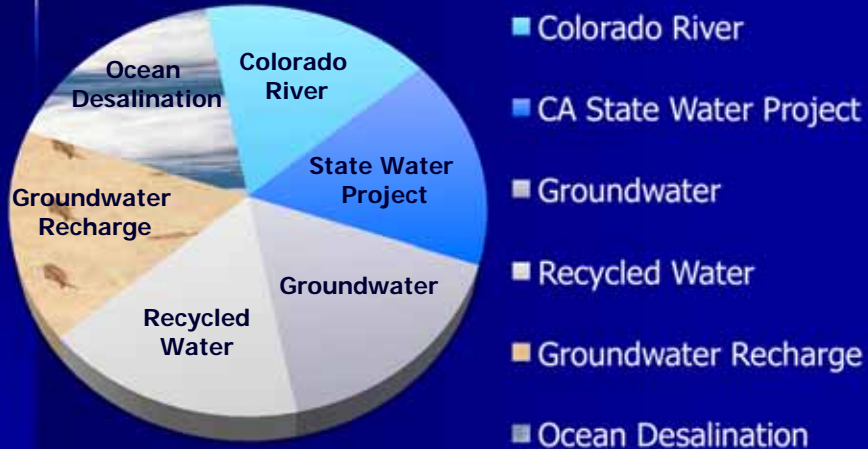
South OC Water Providers: Integrated Water Planning

- City of San Clemente
- City of San Juan Capistrano
- South Coast Water District
- Laguna Beach County WD
- Moulton Niguel Water District
- El Toro Water District
- Santa Margarita Water District
- Trabuco Canyon Water District



Members of the Municipal Water District of Orange County

Sources of Water Supply (current and potential)



Where Orange County Gets its Water

Imported Drinking Water

328,000 AFY

- Colorado River
- CA State Water Project
- Transfers/Storage

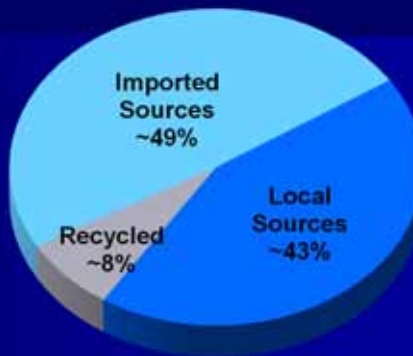
Local Drinking Water

290,000 AFY

- Groundwater
- Surface water

Local Recycled Water

50,000 AFY for Irrigation and Groundwater Recharge

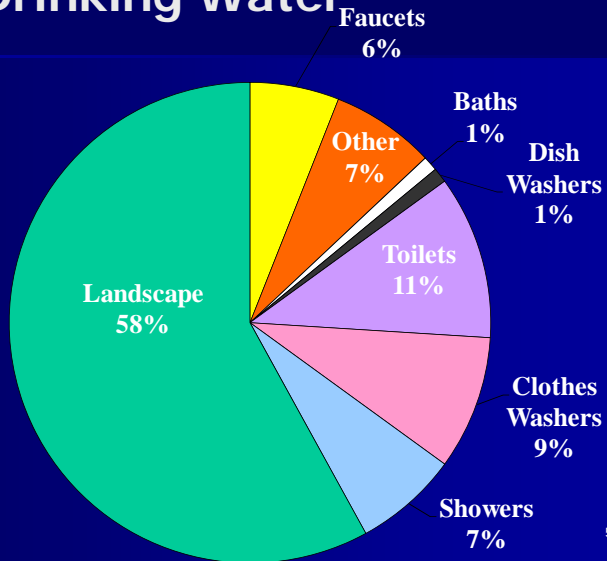


Total Water Demand
668,000 AFY
(Acre Feet per Year)

Landscaping is the Major Use of OC Drinking Water

And a MAJOR contributor to Urban Runoff!

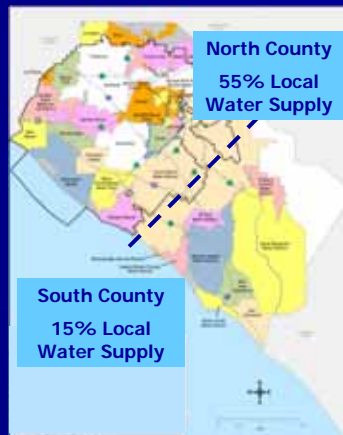
Source: AWWARF Residential End Uses of Water, 1999



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North vs. South County Water Supply

- North Orange County
 - 45% imported water
 - 55% local water
- South Orange County
 - 85% imported water
 - 15% local water



South County: 85% of our Water is Imported



Imported Water Provider: Metropolitan Water District of So Cal

State Water Project Challenges – Something's "Fishy"

- 2/3s of the state relies on Delta water
- Need to fix Sacramento-San Joaquin Delta/fragile levees -- est. \$20 billion over 20 years
- Delta Smelt and other "fishy" pumping restrictions today



Colorado River Water Supply Challenges

- Limited by 1922 allocation compact (7 states, Mexico)
- Booming growth in Southwest US competes for water
- Multi-year drought
- Water quality issues



Some will never run out of money for water



South County: Only 15% of our Water Supply is Local

- Challenges:
 - Imported water supplies are decreasing, uncertain and rising in cost
 - Developing & expanding local water supplies takes time, money & political will
- Goal:
 - We must diversify our water supply with local water sources that are under our control, reliable, drought-proof and ready as emergency back up

South County Water Reliability Options – now and for the future

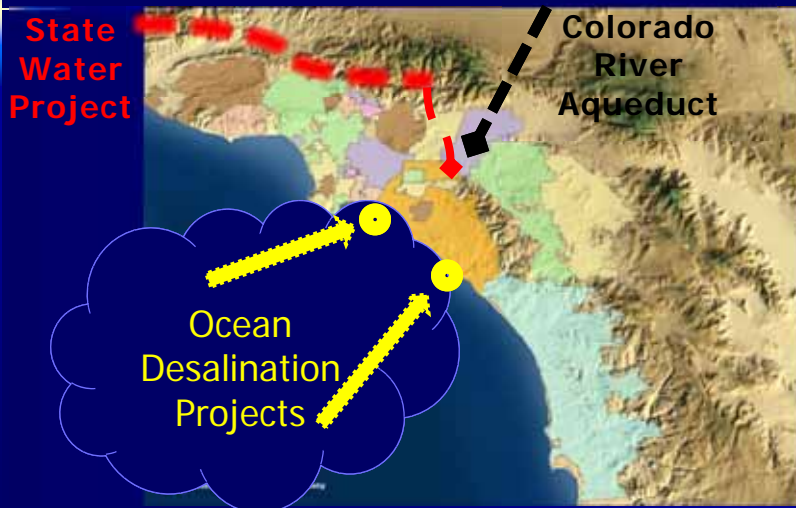
- Improved Water Storage/Systems
 - More tanks and reservoirs
 - Irvine Interconnection Expansion
 - Baker Water Treatment Facility
 - Second Lower Cross Feeder project
- New/Expanded Local Water Supply
 - Recycled water for irrigation
 - San Juan Groundwater Basin
 - Cadiz, Strand Ranch
 - *And Ocean Desalination . . .*

We're sitting next to the world's largest reservoir



New supply and storage

OC Desal Projects Future Local Water Supplies



South Orange Coastal Ocean Desalination Project

- 15 million gallons per day of new water could meet ~25% of 2025 water demand for:
 1. Laguna Beach County WD
 2. Moulton Niguel WD
 3. City of San Clemente
 4. City of San Juan Capistrano
 5. South Coast WD



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Challenges to Ocean Desalination

- Permitting
- Regulations
- Environmental & Energy Impacts
- Political Will
- Funding sources



South County: Filling the Water Supply Gap

- Efficient water use & greater use of recycled water for irrigation is necessary -- but not sufficient to fill the supply gap now or in the future
- We need new/expanded sources of local water
- Additional water storage is valuable – but only if there's water to store!



**WHISKEY'S FOR DRINKING,
WATER'S FOR FIGHTING**

MARK TWAIN

QUESTIONS?