SLIDES: What Ever Happened to the Soft Landing?: Coping With and Without Surplus Waters

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What Ever Happened to the Soft Landing?
Coping With and Without Surplus Waters

26th Summer Conference
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University of Colorado School of Law
Metropolitan Water District of Southern California

- 6 counties; 5,200 square miles
- 18 million people
- Regional economy: $822 billion
- Projected growth: ~240,000 people/year
- MWD provides nearly 60% of southern California’s supply
Where Southern California Gets its Water

- Local Supplies
- Groundwater & Recycling
- Transfers & Storage
- California Aqueduct
- Los Angeles Aqueduct
- Colorado River Aqueduct
- Conservation
The Soft Landing

- 2000-2004 Colorado River Basin drought eliminated the availability of surplus water in 2005
- Metropolitan chose to not divert available surplus water from October 2003 through 2004
- Metropolitan substituted other water supplies
Sources of Water Supply in MWD’s Service Area

- State Water Project
- Colorado River Aqueduct
- LA Aqueduct
- Local Supplies

Million Acre-Feet

Integrated Resources Plan

A diverse resource strategy reduces risk

- Colorado River
- State Water Project
- Storage & Transfers
- Recycling
- Groundwater Recovery
- Conservation
- Local Supplies
- Conjunctive Use
- Desalting
- Supply Options
Diverse Water Supply Portfolio

- **Hydrologically Dependent**
  - Local Surface & Ground Water
  - Colorado River Aqueduct
  - Los Angeles Aqueduct
  - California Aqueduct
  - In & Out of Service Area Storage
  - Conjunctive Use Programs
  - Operational Flexibility

- **Hydrologically Independent**
  - Conservation
  - Recycling
  - Contaminated Water Recovery
  - Transfers
  - Desalination
  - Land Management/Supply Programs/Ag-Urban Partnerships
  - Water Quality
Palo Verde Program

- Develops flexible and reliable water supply
- Stabilizes farm economy in the Valley
- Funds community improvement programs
- Provides up to 111,000 AF/yr
Canal Lining Projects

- Concrete lining
- Conserves seepage
  - SDCWA 77,000
  - SLR Parties 16,000
  - 93,000 AF/yr
- 2004 construction start
QSA Related Agreements

- 24 related agreements signed on October 10, 2003
  - Specifies exchange of IID/SDCWA transfer water (200,000 AF/yr)
  - Allocates water conserved by All American & Coachella canal lining projects
  - Requires IID to conserve water for CVWD and/or MWD for payments (100,000 AF/yr)
Other MWD Supplies

- Special surplus water
  - Restored access

- Shortage sharing/payback to Arizona
  - None, if MWD does not use special surplus

- Additional IID conserved water
  - Up to 1.6 MAF to MWD
  - Dependent on Salton Sea restoration
Ultimate Yield of QSA Transfer Programs Benefiting Metropolitan’s Service Area

- 110,000 AF/yr – MWD/IID conservation
- 200,000 AF/yr – IID/SDCWA Transfer
- 94,000 AF/yr – Canal lining to SDCWA & Settlement Parties
- 1.6 Million AF – Salton Sea mitigation / restoration
Water Supply Reliability

Current Performance:
- Stored water at the end of 2004 was 2.3 maf
- Potential water in storage at the end of 2005 is 2.7 maf

Potential Water in Storage (End of 2005)
- Greater than 10x Increase

Water in Storage (End of 2004)
- Semitropic, Castaic & Perris
- No. Las Posas
- Desert / Coachella
- Lake Mathews & Lake Skinner
- Kern Delta Prop. 13 Programs (start-up)
- San Bernardino Valley
- North Kern & Mojave Demo

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Greater than 10x Increase

Year
- '90
- '95
- '00
- '05
Dry-Year Supply Portfolio

San Joaquin Valley Transfers
- Kern Delta
- Semitropic
- Coachella
- Imperial
- Palo Verde
- Central Arizona
- Arvin-Edison
- San Bernardino
- Sacramento Valley Transfers
- DWR Drought Bank

MWD Service Area
- 7 existing GW programs
- 6 new GW programs
- 22 GW Recovery programs
- 53 Recycling projects
- Surface Reservoirs
- 5 desalination projects (proposed)

- Lake Mathews
- Lake Perris
- San Luis Reservoir
- Castaic Lake
- Skinner Res.
- Lake Mathews
- Diamond Valley Lake
- San Bernardino
- Imperial
- Coachella
- Palo Verde
- Mojave

Surface Reservoirs
Multi-year banking / transfer programs
Single-year options