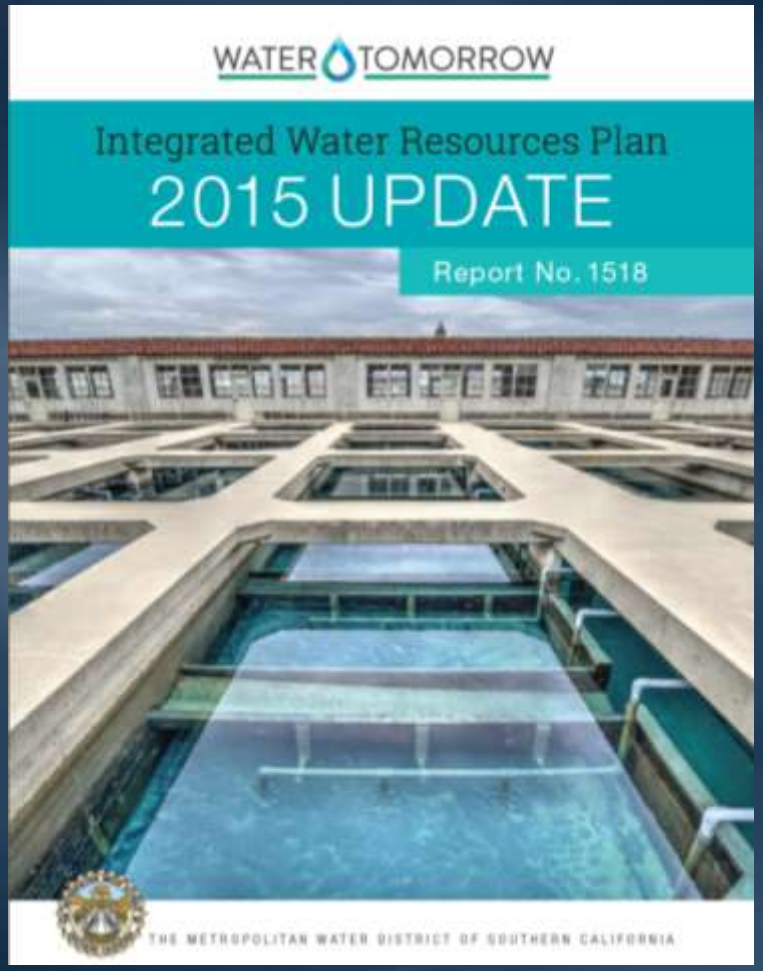
Report on Integrated Water Resources Plan Implementation

Water Planning & Stewardship Committee
Item 6d
February 12, 2018

Blueprint for Southern California Water Supply Reliability



- Long-term strategy adapting to changing conditions
- Diversified resource portfolio

Presentation Overview

- IRP resource goals and targets
- Progress update by resource
- Summary

The IRP Takes a Long View Taking Into Account Variability

2017

- Improved conditions
- Low demands
- Storage rebound

The Future

- Variable conditions

- Record Dry Conditions
- Drought Emergency
- Mandatory conservation
- Water Supply Allocation Plan

2015

IRP Resource Areas

Colorado River Aqueduct

State Water Project

Local Resources

Conservation

Colorado River Aqueduct

GOAL:
Protect and maintain supplies

2040 TARGET:
0.90 MAF avg. & wet
0.30 MAF additional dry supply

2017 Supplies: 1.12 MAF

Colorado River Aqueduct

GOAL:
Protect and maintain supplies

2040 TARGET:
0.90 MAF avg. & wet
0.30 MAF additional dry supply

LONG-TERM CHALLENGES

- Water demand by higher priority users
- Structural deficit
- Declining Lake Mead elevation

ACTIVITIES

- Conservation, transfer and exchange programs
- Land fallowing
- Lower CR Basin Drought Response MOU

State Water Project

GOAL:
Stabilize SWP supplies

2040 TARGET:
1.21 MAF average

2017 Supplies: 1.75 MAF

State Water Project

GOAL:
Stabilize SWP supplies

2040 TARGET:
1.21 MAF average

LONG-TERM CHALLENGES

- Regulatory constraints on operations
- Physical infrastructure vulnerability

ACTIVITIES

- California WaterFix
- California EcoRestore
- Regulatory processes and Delta science
- Water quality protection

Local Supplies

GOAL:
Maintain and develop new local supplies

2040 TARGET:
2.43 MAF

2016* Supplies: 1.85 MAF

* Data not available for 2017

Local Supplies

GOAL:
Maintain and develop new local supplies

2040 TARGET:
2.43 MAF

LONG-TERM CHALLENGES

- Declining groundwater basin levels
- Local projects may not produce as projected
- Upstream conservation may impact recycled water

ACTIVITIES

- GW masterplans
- 8 new projects approved for LRP funding
- 6 new LRP applications
- Regional Recycled Water Program (demo)

Conservation

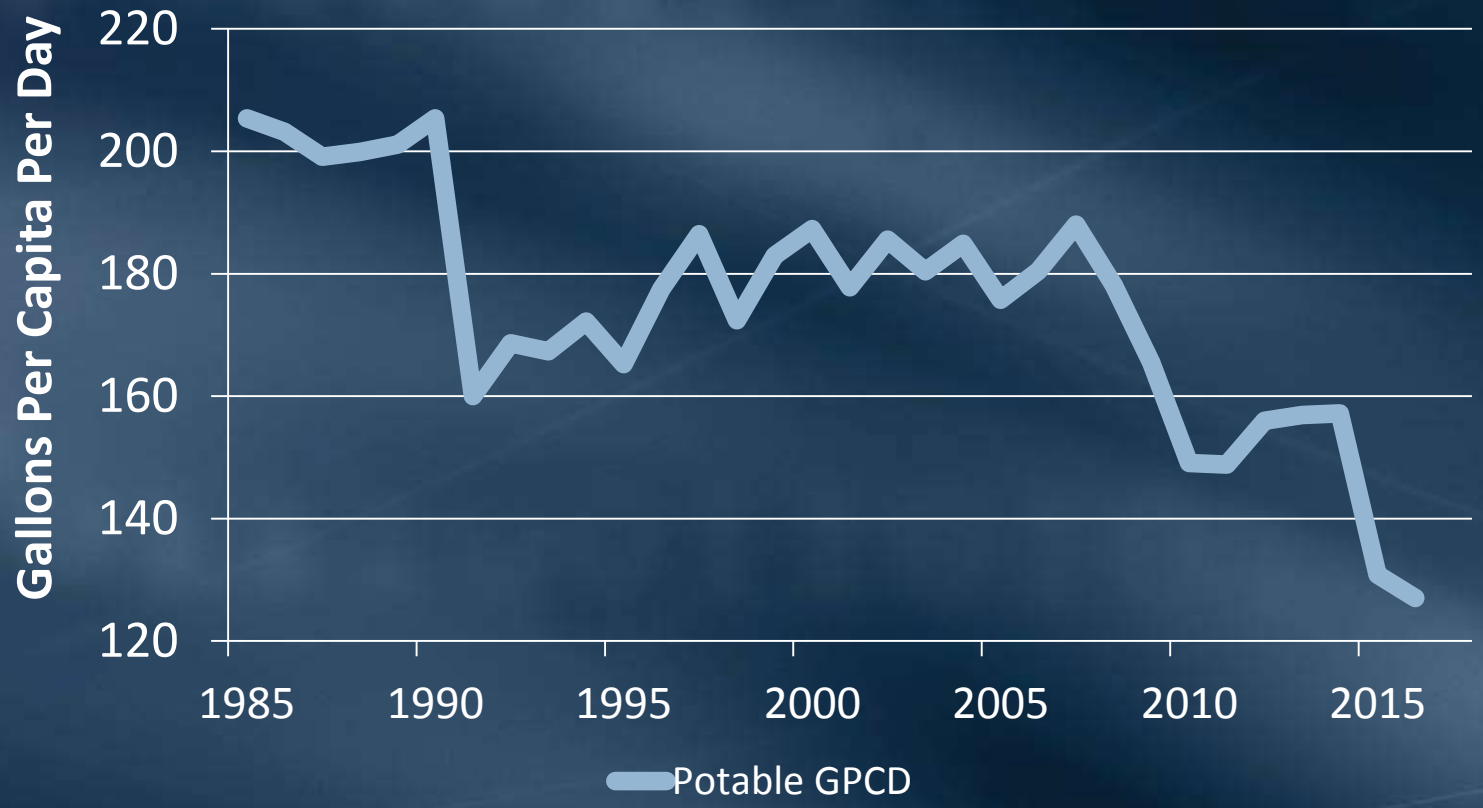
GOAL:
Achieve additional savings with emphasis on outdoor water use

2040 TARGET:
1.52 MAF

2017 Conservation: 1.01 MAF

Other Way to Track Water-Use Efficiency

- Potable per capita use reach a historical low



Conservation

GOAL:
Achieve additional savings with emphasis on outdoor water use

2040 TARGET:
1.52 MAF

LONG-TERM CHALLENGE

- Consumer awareness and perspective
- Voluntary conversion of existing landscapes

ACTIVITIES

- Program changes focused on landscape efficiency
- Developed program refinements and modifications
- Continue outreach and education

Summary

- The IRP takes a long view with 2040 targets
- Development towards targets are on track but have ongoing challenges
  - CRA: at risk from increased demands by higher priority users and structural deficit on the system
  - SWP: highly dependent on hydrology and environmental and regulatory constraints
  - Local supply: protecting against losses in existing sources and adding new supplies
  - Conservation: effectively reaching consumers to transform landscape efficiency
- Regional coordination and investment is key

THE METROPOLITAN WATER DISTRICT OF
SOUTHERN CALIFORNIA