



The 2015 Integrated Water Resources Plan Update

Central Basin Municipal Water District
May 20, 2015

Integrated Resources Planning



Metropolitan's IRP

- Provides a long-term plan out through 2035
- Develops regional goals for water supply and demand management
- Sets a framework for the development of implementation approaches
 - Conservation/WUE Strategy
 - Local Resources Partnerships
 - Imported Supply Development
 - Storage Management

The Integrated Resources Plan Reliability Goal

1996 IRP and 2004 IRP Update:

“Through the implementation of the IRP, Metropolitan and its member agencies will have the full capability to meet full-service demands at the retail level under all foreseeable hydrologic conditions”

IRP History

- 1996 IRP
 - Established MWD's role as a regional water planner
 - Introduced a diversified portfolio approach
 - Established targets for major resource categories
- 2004 IRP Update
 - Placed further emphasis on conservation and local resources development
 - Introduced the concept of a "planning buffer"

1996 IRP

- Following drought of the late 80's early 90's Metropolitan embarked on it's first IRP process
- Developed through an extensive multi-year stakeholder process, completed in 1996
- Represented a shift in metropolitan's role from supplemental supplier to regional water planning agency
- Defined reliability objectives for next 20 years
- Established a diversified portfolio approach with a preferred resource mix, and set resource development targets to meet reliability objectives into the future

2004 Update

- Reaffirmed objectives of 1996 IRP and adjusted for changed conditions
- Called for additional investments in water conservation, recycling, and storage and transfers
- Established a "Planning Buffer" that identified areas for additional development if needed

IRP History

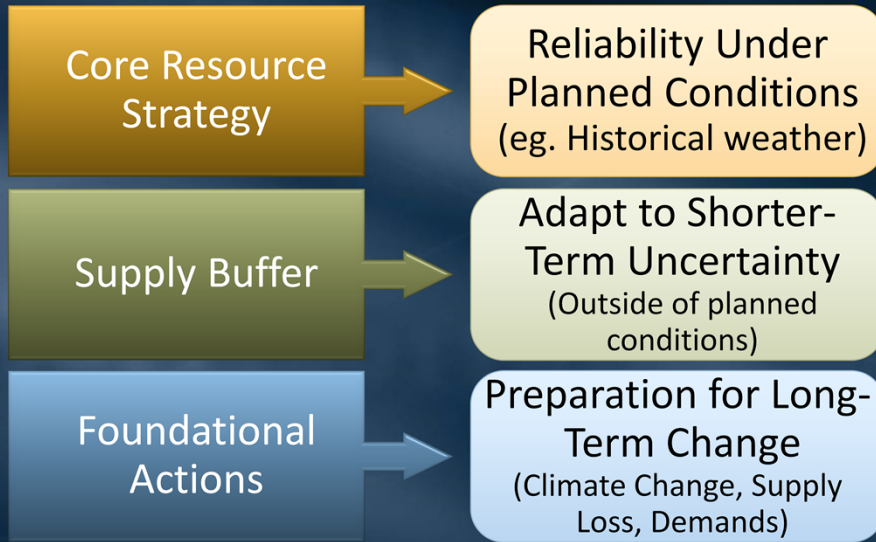
- 2010 IRP Update
 - Introduced an adaptive management approach
 - Seeks to stabilize imported supplies and meet growth through water use efficiency and local resources

2010 Update

- Introduced an adaptive approach to manage uncertainties, I will go into this in a bit more detail shortly
- Overall approach is to stabilize imported supplies and meet growth in the region through WUE and Local Resources

IRP Adaptive Management Approach

Blueprint for Adapting to Change



IRP Development Goals

Water Use Efficiency

- Achieve a 20% reduction in GPCD as a region by 2020

Local Resources

- Develop ~100 TAF through incentives and partnerships

SWP

- Seek short, mid, and long-term Delta improvements

CRA

- Develop Dry-Year supply programs to fill the aqueduct when needed

Water Use Efficiency

Conservation and recycling to achieve a 20% reduction at the regional level
Commitment is above and beyond 20x2020 legislation

Local Resources

Sought to develop just over 100 TAF of additional local supplies through groundwater recovery, seawater desalination, and recycling

State Water Project

Pursue short, mid, and long-term improvements to help stabilize delta supplies

Short-term examples: emergency preparedness actions, Complete BDCDP

Mid-term examples: Implement BDCP, implement flood control protection

Long-term examples: Water supply conveyance, ecosystem restoration

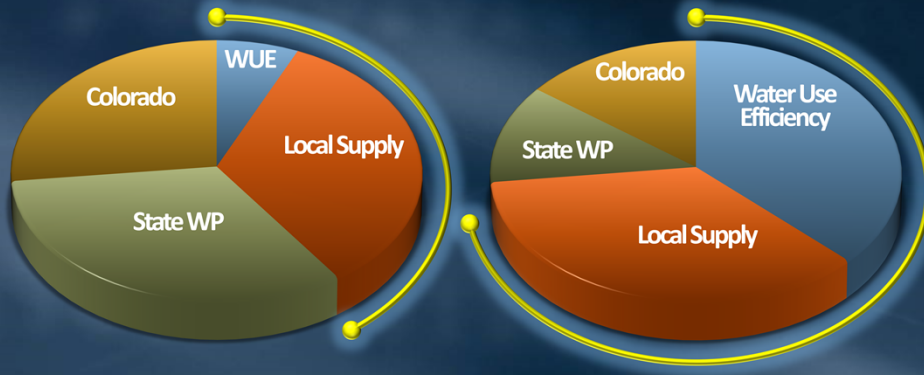
Colorado River

Continue to develop dry-year supply programs on the Colorado River System

Provide flexibility in conjunction with Lake Mead ICS to provide a full CRA as needed

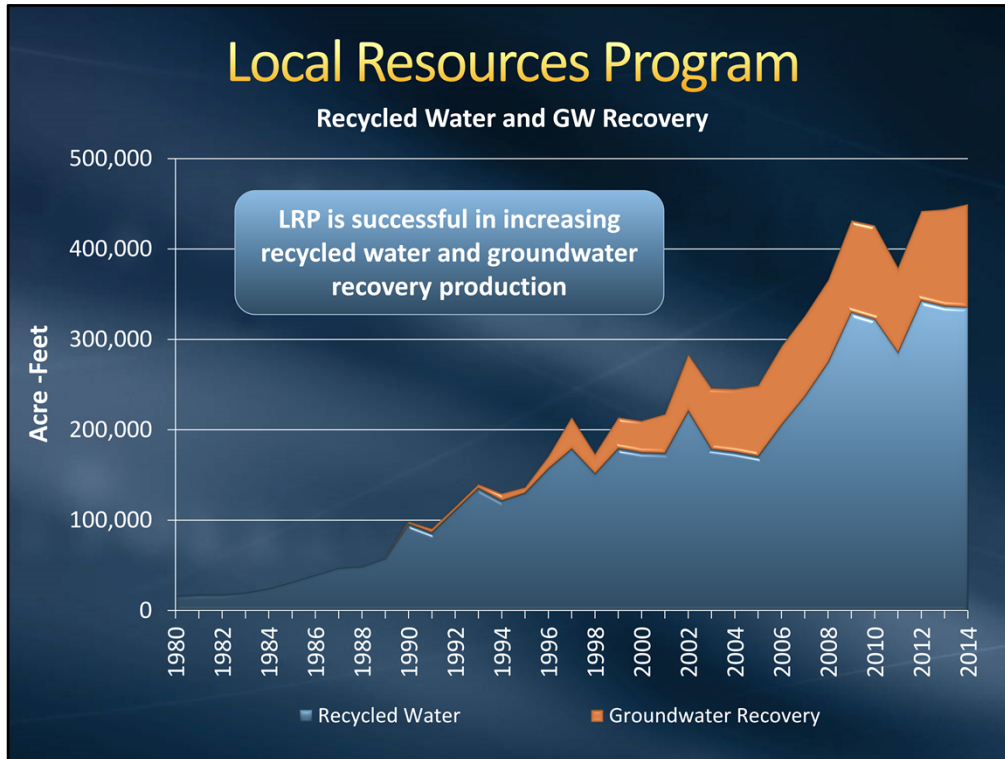
Diversification of Water Portfolio

Integrated Water Resource Plan (IRP)



Early 1990's
Heavy dependence on imported supplies

2035 IRP Strategy
Emphasis on conservation, recycling, & local supplies



Let's look at the impact of the LRP.

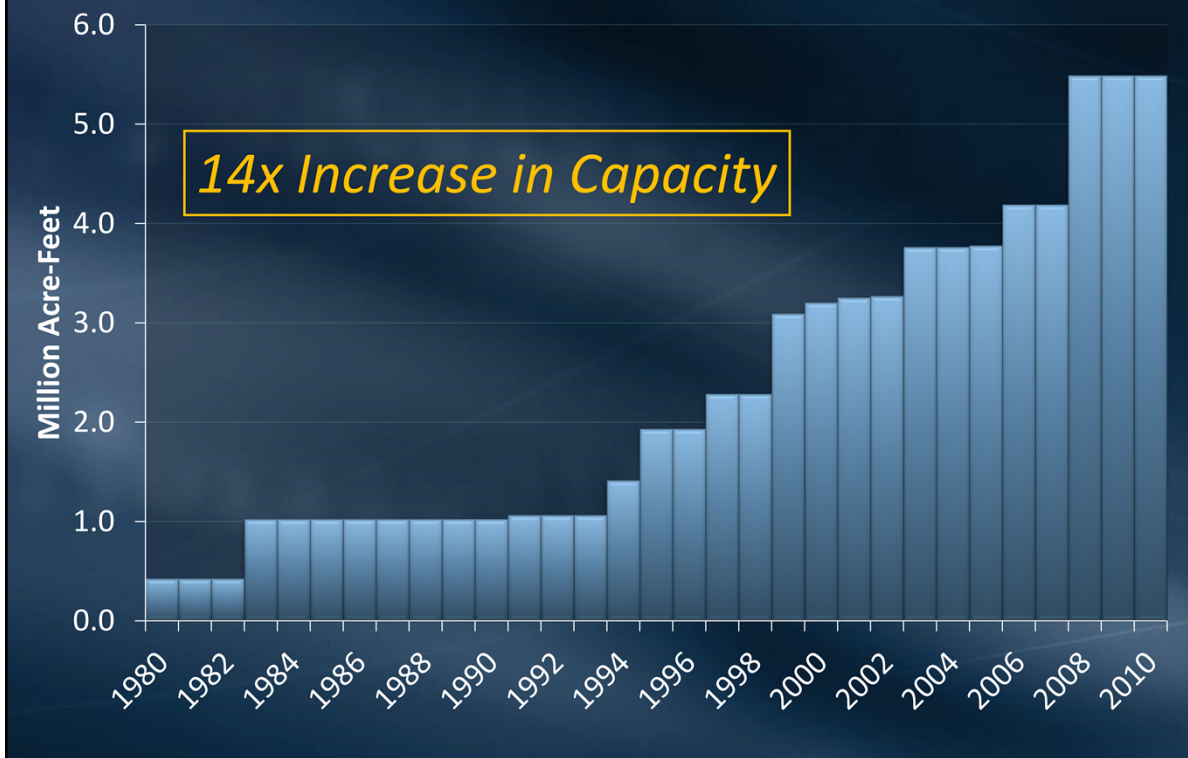
This graphic shows the development of RW and recovered GW.

Since 1982, the program has successfully increased production of our local supplies.

More than half of the recycled water and recovered groundwater shown here is as a result of the LRP.

So now lets look at the impacts of this development on our local supplies.....

Metropolitan's Storage Capacity



1980 – Lake Matthews and Skinner

1990 – Desert and Coachella

1995 – North Las Posas and Semitropic, Castaic and Perris under Monterey Agreement

1998 - Arvin Edison

2000 – DVL

2003 – Kern-Delta and Prop 13 conjunctive use programs

2006 – Mojave Demo and Additional Prop 13 conjunctive use programs

2007 – Lake Mead Demo

2008 – Established Lake Mead storage (1.5 MAF Capacity 400AF max draw)

2010 IRP Update Summary

- Improved IRP framework for adaptability
 - Supply Buffer + Foundational Actions
- Local Resources and Conservation to meet growth and manage short-term risk
- Outlined a strategy for identifying and monitoring uncertainty and vulnerability
- April IRP Committee
 - Review of 2010 IRP Targets and Current Conditions

2015 IRP Update



2015 IRP Update Process

- The IRP Update is split into a two-part process
- Technical update
 - Metropolitan staff and member agencies
- Resource policy issues discussion
 - Board process
- Both efforts will have extensive interaction with the Board through the IRP Committee

Staff is proposing that IRP Update be completed in a two phase process

The first phase will be a Technical Update of the IRP

- This effort would largely involve metropolitan staff and member agencies
- I will show you a proposed schedule at the end of the presentation

The second phase of the update would begin following completion of the Technical Update

- This effort would largely be a board process to discuss policy issues
- And would be fed by discussions raised in the technical process

Both phases will have extensive interaction through the IRP subcommittee

- ???

IRP Technical Update Goals

- Review and update IRP resource targets
- Assess strategy for managing short and long term uncertainty
 - Core Resources Strategy
 - Supply Buffer
 - Foundational Actions
- Review IRP resource issue papers
- Communicate technical findings and identify policy needs for Board policy discussions

So let's focus in more detail on the Technical Update portion of the IRP Update

Our goals for the IRP Technical Update process include:

- Completing a full review and update of all of the resource targets from the 2010 IRP Update
- Working with the IRP subcommittee to identify policy issues to feed the subsequent board process

Homework Items

- Inventory of Local Resources Projects
- Conservation Model Assumptions
- Demographics Data Handout
- Local Resources Issue Paper Addendum

Homework to be emailed

Local Projects Inventory (Each MA)

Inventory, Timing, Yield, Category, Costs, etc.

Conservation Model Assumptions (WUE group)

Demographics Data Handout (Each MA)

IRP Issue Papers Review (Designated groups)

All future meetings will be noticed.

Local Resources Issue Paper Addendum

Purpose

To help inform future water resource decisions by identifying current and potential issues, opportunities, and actions

Overall Deliverable

A concise local resources issue paper addendum (that includes all resource areas)

Local Resources Issue Paper Addendum

Conservation

Groundwater

Recycled Water

Desalination

Stormwater

Graywater

Synergy

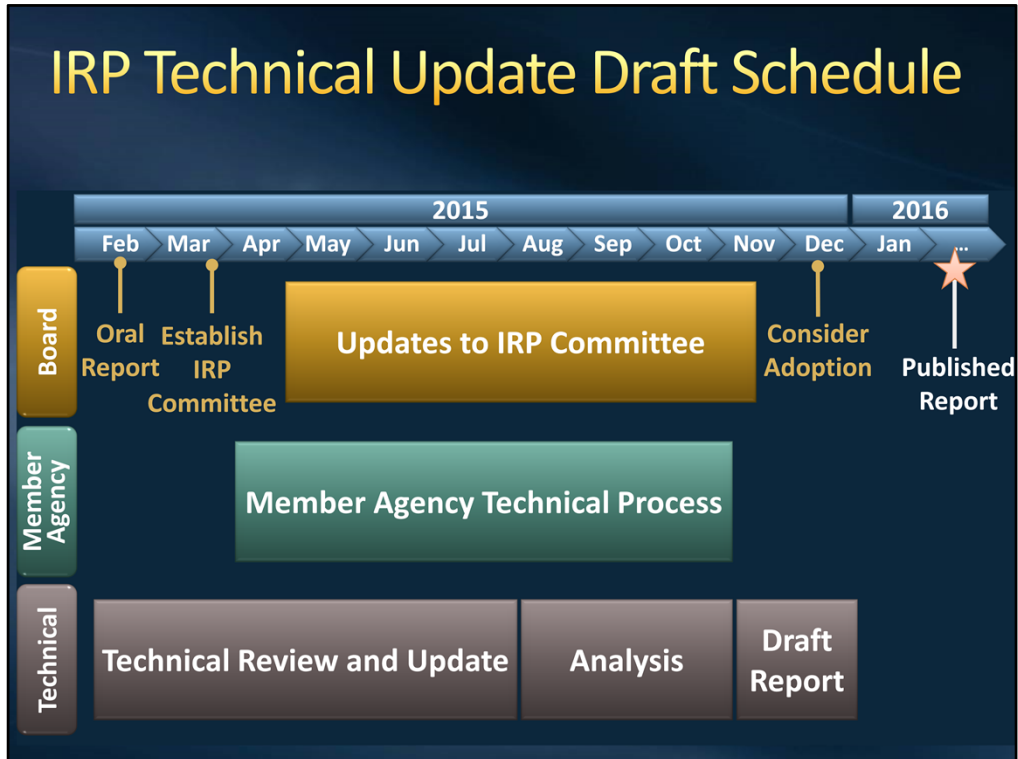
Approach for Policy Issues in IRP

- Collect issues from technical process discussions
 - Member Agency Workgroup Meetings
 - Water Use Efficiency Meetings
- IRP Committee
- Public outreach
- Review in monthly updates to IRP Committee
- Present inventory of issues with final results in the fall (Oct-Nov)
- IRP Committee decides which issues continue to Board Policy Process

Collect issues at each meeting

Review with committee

Organize and present by topic or category in the fall



Internal Process –
Ongoing

MA Technical Process –
MA workgroup meetings twice a month April through August, as needed through October
WUE meetings monthly standing meeting April through July

Board –
Reporting in Feb and March (IRP Committee)
Monthly Updates from MA tech process
Wrapping up around the end of the year, head into Board Policy Process

Following slides breakdown activities at Board and MA levels

