Draft 2010 Integrated Water Resources Plan Update

IRP Steering Committee July 13, 2010

The Draft IRP Report Was Released July 2, 2010

Section 1 – History, Background, and Status

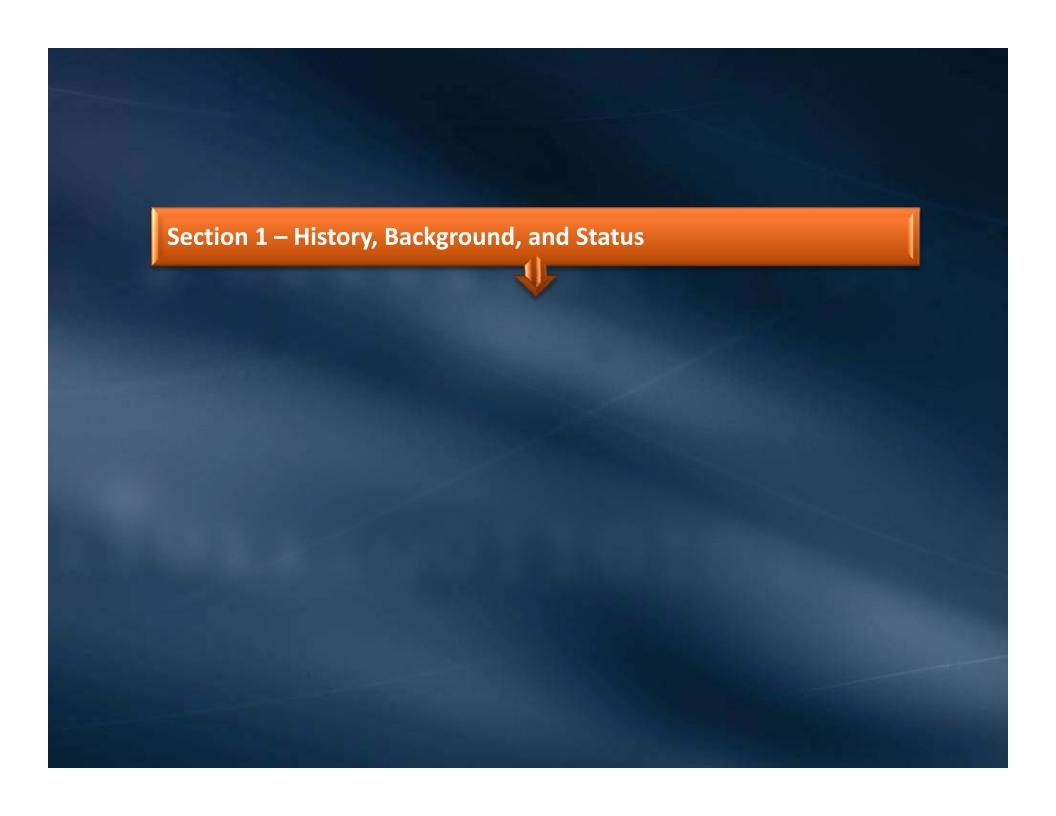
Section 2 — Developing a Collaborative Regional Process

Section 3 – Integrating a Policy Approach for Metropolitan's Role

Section 4 – Core Resources Strategy

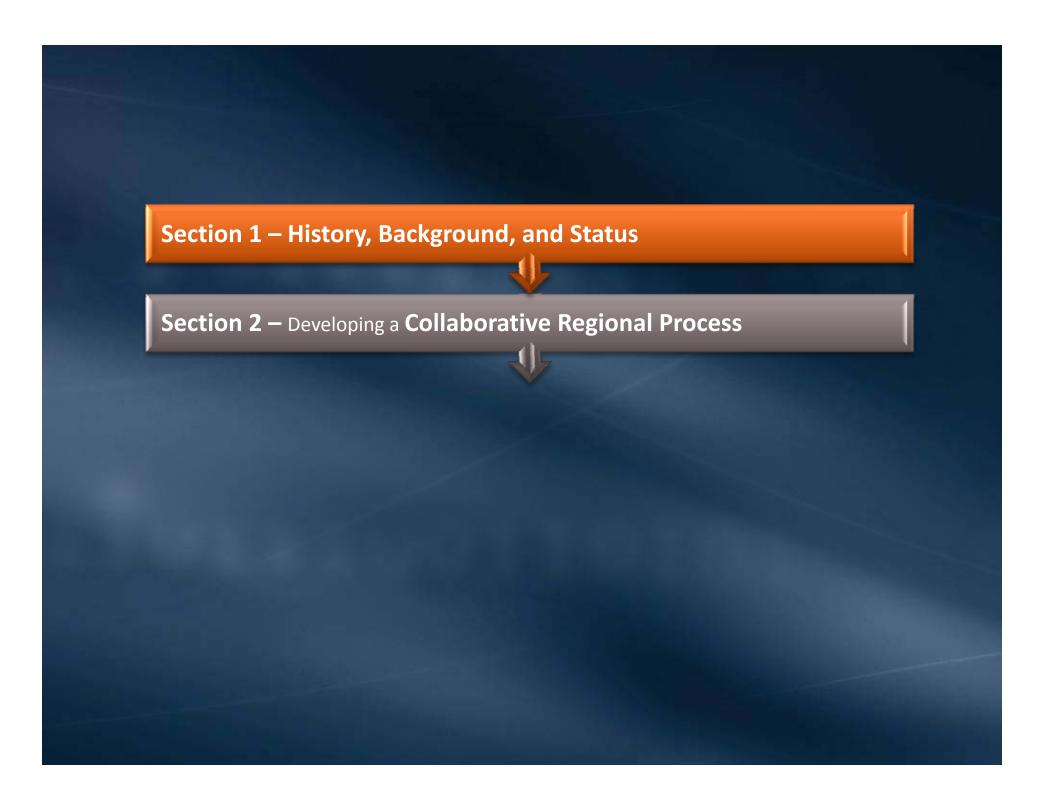
Section 5 — Making an Adaptive Management Approach work

Section 6 –Findings and Conclusions



Water Supply Reliability Policies

- Laguna Declaration that stated Metropolitan will "provide its service area with adequate supplies of water to meet expanding and increasing needs."
- Metropolitan Mission Statement that it will "provide its service area with adequate and reliable supplies of high-quality water to meet present and future needs."
- IRP Reliability Goal that "Metropolitan and its member agencies will have the full capability to meet full-service demands at the retail level under all foreseeable hydrologic conditions."



Regional Stakeholders Came Together to Discuss Integrated Planning

Collaborative
Process

Board Oversight

- Stakeholder Forums
- TechnicalWorkgroups
- Board's StrategicPolicy Review
- Stakeholder Feedback
 - Uncertainty
 - New Supplies
 - Partnerships

Public Forums

Web-based access

Member agency and other hosted forums (i.e. city councils, boards)

IRP Steering Committee

Stakeholder Forums

Member agencies

Basin managers

IRWMPs

Elected officials

Planning Comm.

Regulatory agencies

Community groups

DWR

USBR

Technical Process

Oversight and workgroups

Member agency

Other agency staff

Metropolitan staff

Consultants



A Number of Possible Roles Were Considered for Metropolitan

Imported Focus

- Limited role in regional reliability
- Focus on Delta
 Fix

Current Approach

- Maintain & develop resources
- Provide local resource incentives
- Complete Delta improvements

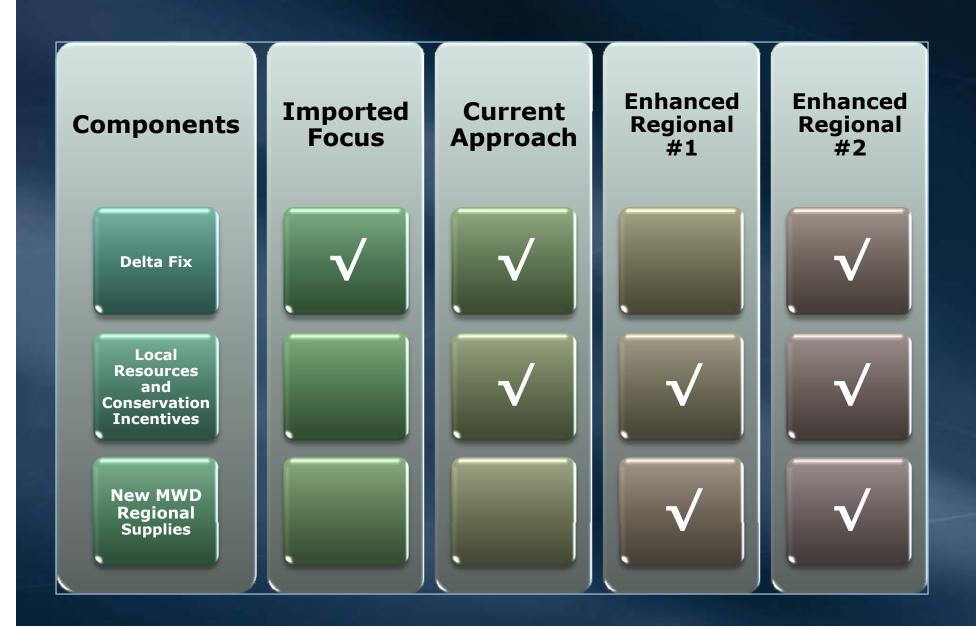
Enhanced Regional #1

- Maintain & develop resources
- Delta improvements not completed
- Develop largescale local projects

Enhanced Regional #2

- Maintain & develop resources
- Develop largescale local projects
- Delta improvements complete

Evaluation of Metropolitan's Regional Role





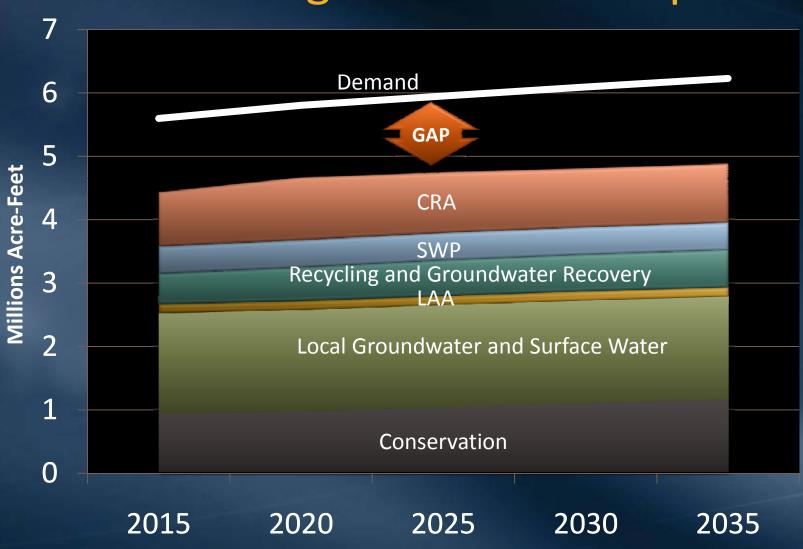
Section 2 – Developing a Collaborative Regional Process



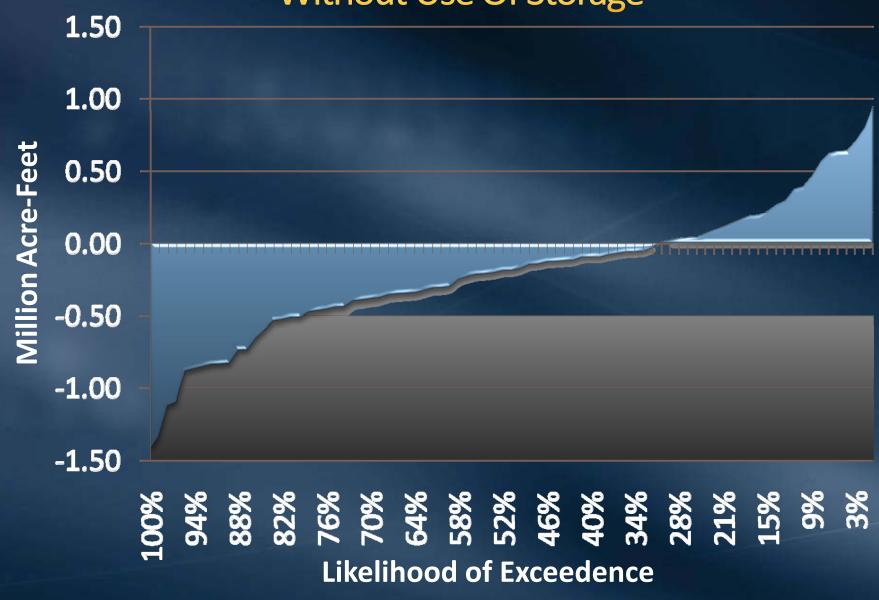
Section 4 – Core Resources Strategy



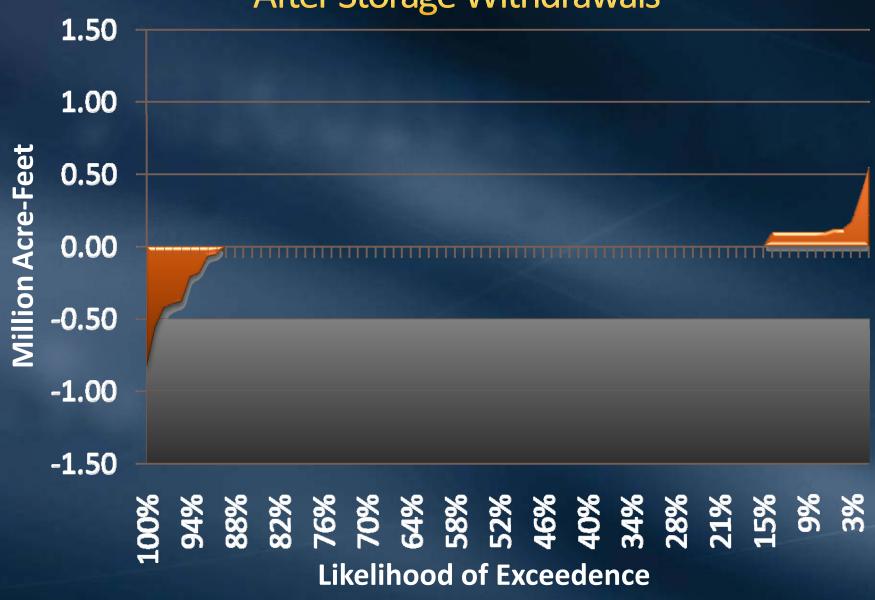
A Supply Gap Would Exist In Dry Years Under Existing Resource Development



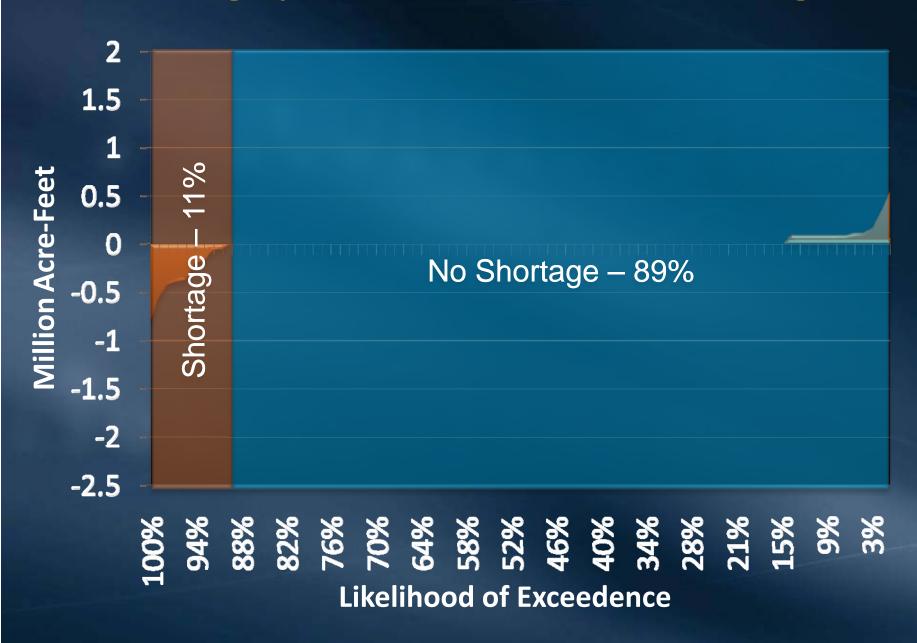
2015 Reliability Under Existing Resource Development Without Use Of Storage

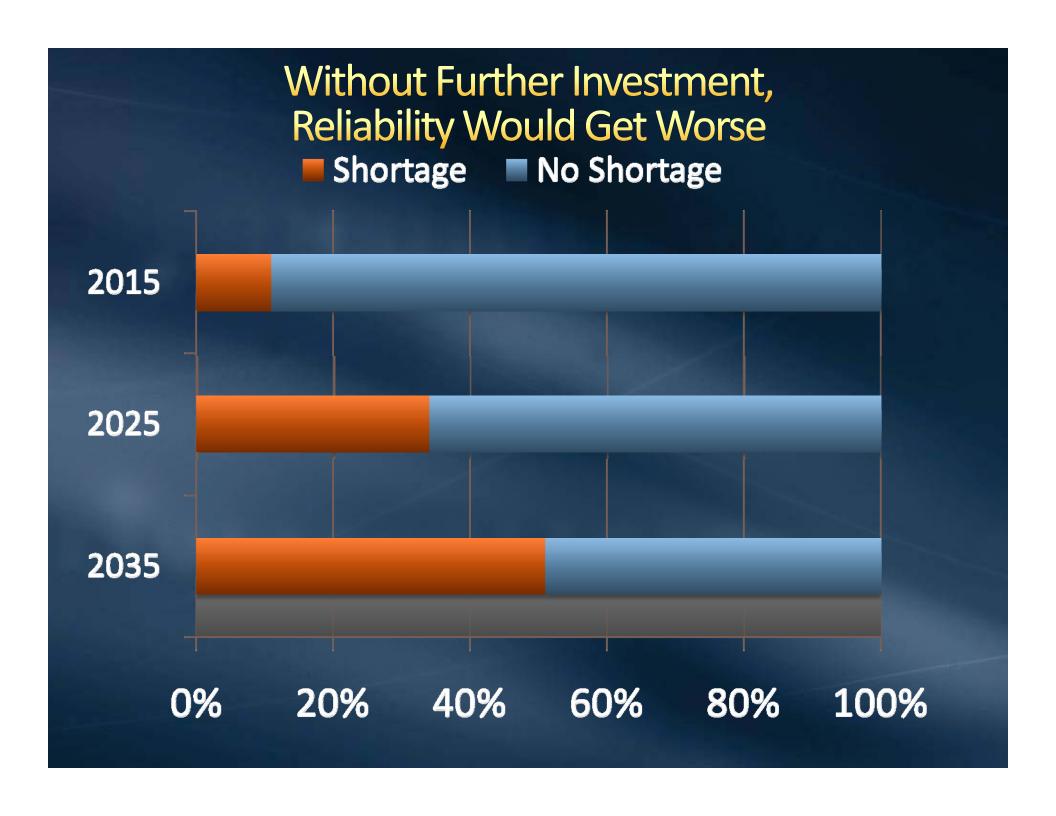


2015 Reliability Under Existing Resource Development After Storage Withdrawals



A Roughly One In Ten Chance Of Shortage





Existing Resources Under Future Uncertainties

- Under the existing level of resource development without future efforts:
 - Metropolitan would not meet its reliability goals under various future scenarios
 - Local and regional storage would not be replenished
- Challenges and Changed Conditions
 - Climate Change
 - Bay-Delta
 - Endangered Species Act Restrictions
 - Economy

A Core Resources Strategy Can Provide Reliability

Core Resources Strategy to Provide Future Reliability

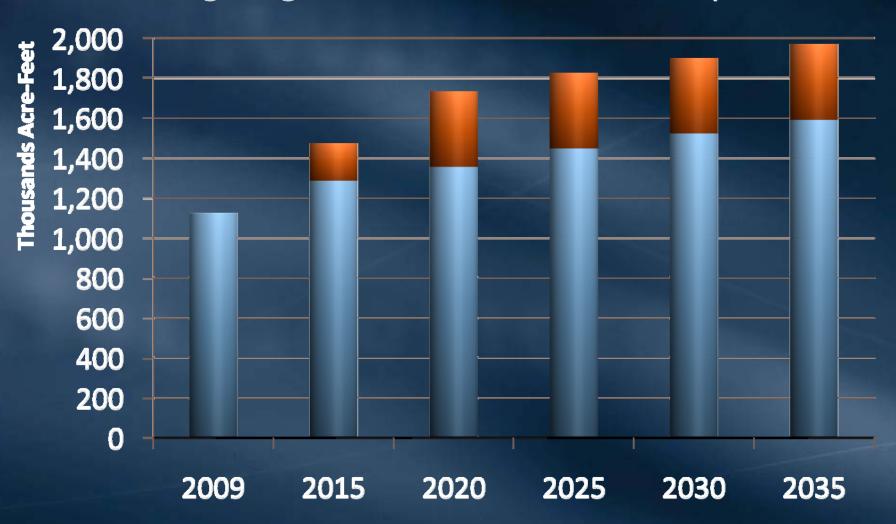


A Comparison of IRP Local Resource Development Targets for 2025



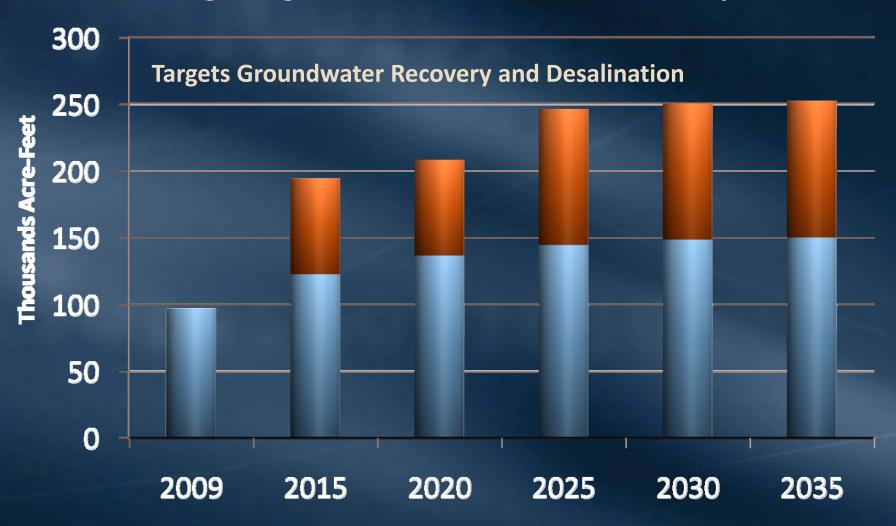
Water Use Efficiency Targets (Meeting the 20% By 2020 Retail Compliance)

Existing Programs Additional Development



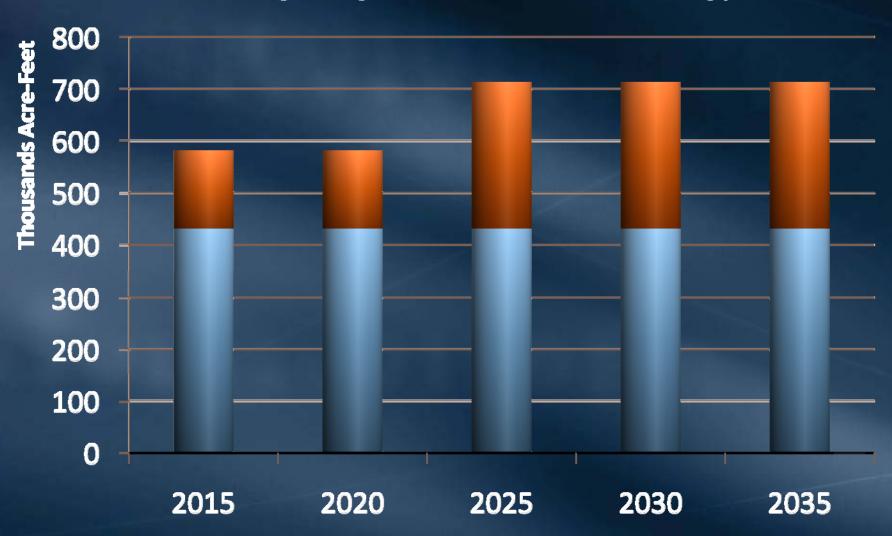
Local Resource Targets (Increasing Local Yield To Reflect Contracts)

Existing Programs Additional Development



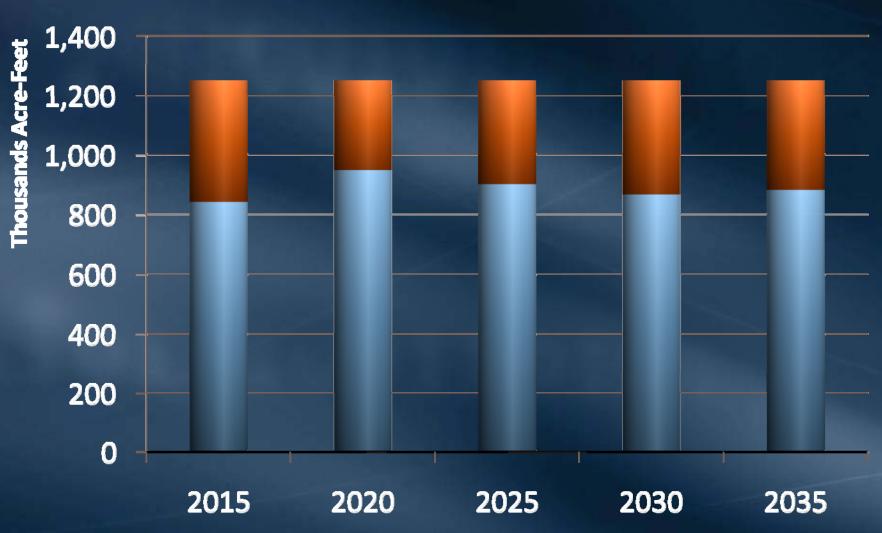
Dry-Year State Water Project Targets (Complete Delta Improvements)

Existing Programs Core Strategy

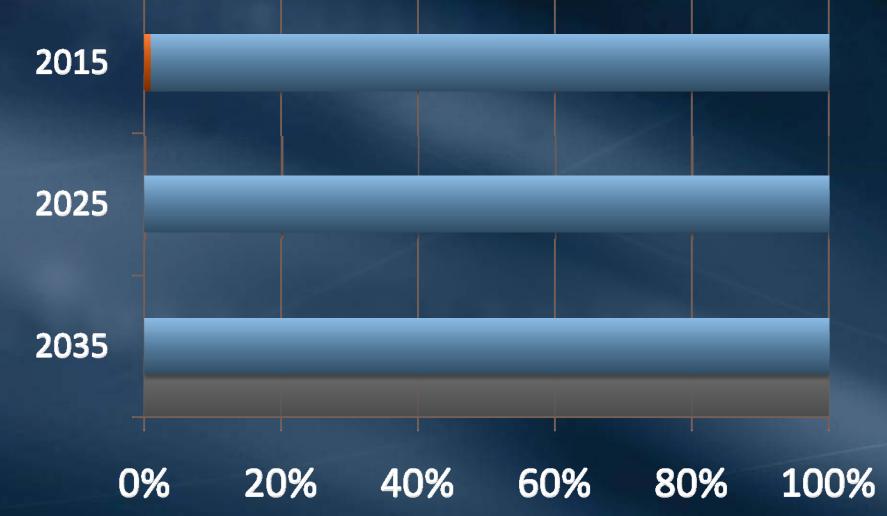


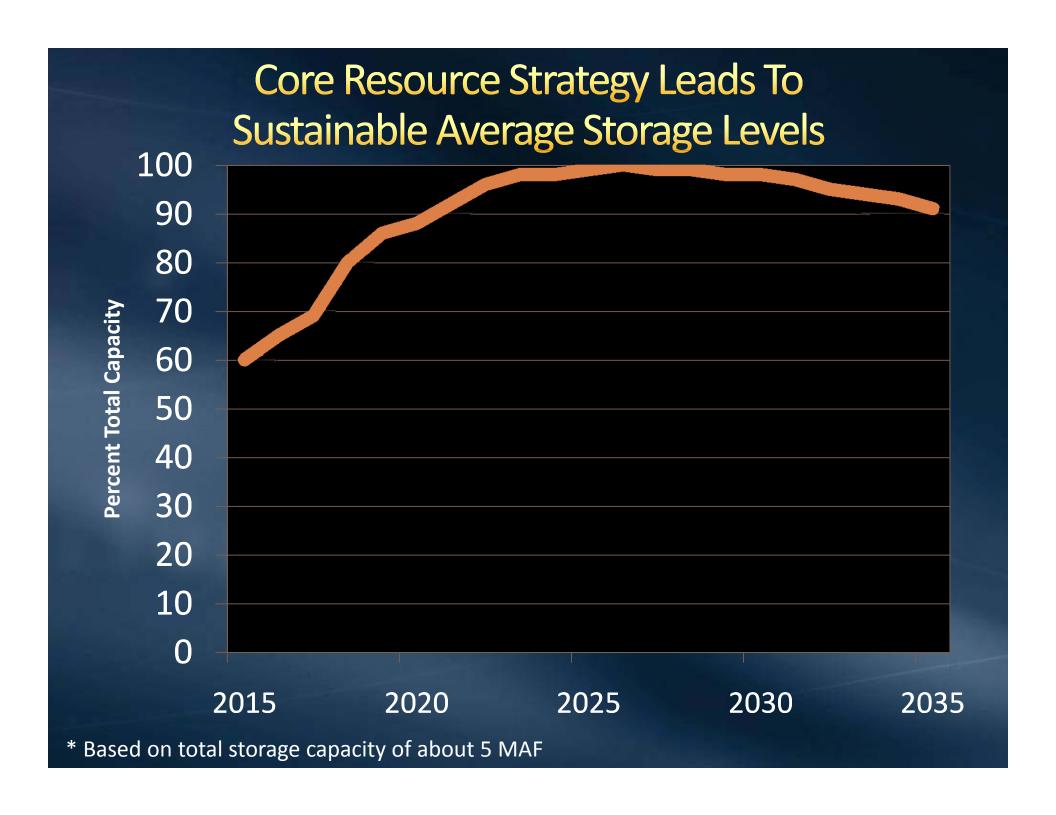
Colorado River Aqueduct Targets (A Full CRA In Dry Years)

Existing Programs Core Strategies



Reliability Improves Under Core Resource Strategy Shortage No Shortage 2015





Core Resource Strategy Targets Total Production (Acre-Feet)

	2015	2020	2025	2030	2035
20% by 2020 Water Use Efficiency	1,473,000	1,732,000	1,825,000	1,899,000	1,968,000
Local Resources Augmentation	194,000	208,000	246,000	250,000	252,000
SWP Dry-Year Supply	581,000	581,000	713,000	713,000	713,000
CRA Dry-Year Supply	1,250,000	1,250,000	1,250,000	1,250,000	1,250,000
Total	3,498,000	3,771,000	4,034,000	4,112,000	4,183,000

The Future Is Uncertain: Beyond Forseeable Hydrologic Conditions

Uncertainty Comes In Many Forms

- Climate Change
- Statewide Initiatives
 - Delta Improvements
 - "20x2020"
- Endangered Species Act Restrictions
- Economy

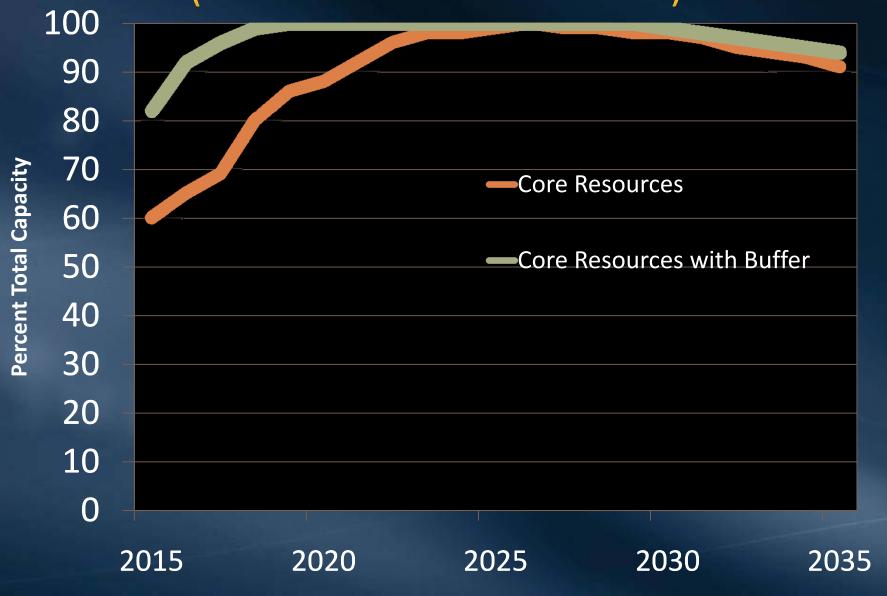
Implementing A Supply Buffer Can Help Manage Uncertainty

- 2004 Update
 - Planning Buffer: focus on identifying supplies, but not implementation
- 2010 IRP Update
 - Implement an Operational Buffer
 - Components of Adaptive Management Approach
 - 10% of total retail demand
 - Regional collaboration on 20X2020 conservation legislation
 - Adaptive actions on local supply development

How Could A 500 TAF Buffer Be Implemented?

- Water Use Efficiency: Up to 200 TAF additional (Inc. Conservation and Recycling)
 - Create a goal to reduce <u>regional</u> per capita water use by 20% from a baseline
 - Saves an additional 200 TAF above retail compliance with 20% by 2020 requirements
- Local Resources: Up to 300 TAF additional (Inc. GW Recovery, Recycling, Desalination, etc.)
 - Investigate regional partnerships for local resource development
 - Review incentive programs and rate impacts
 - Bring new projects forward for Board consideration as required and as feasibility is assessed





The Draft IRP Report Was Released July 2, 2010

Section 1 – History, Background, and Status



Section 2 — Developing a Collaborative Regional Process



Section 3 – Integrating a **Policy Approach for Metropolitan's Role**



Section 4 – Core Resources Strategy



Section 5 – Making an Adaptive Management Approach work



Advancing Action Plan for Future Change

- Storm water capture
- Gray water systems
 - Metropolitan can work with regional stakeholders to improve the feasibility of these potential alternatives
- Low-regret foundational actions
 - Improve regulatory environment
 - Potential pilot studies
- Help to prepare these alternatives for implementation, if needed in the future

Overview of IRP Strategy: A Plan For Reliability

Component 1

Core Resources Strategy

- 20% x 2020 Retail Compliance
- Fix the Delta
- Dry-Year CRA
- Local Projects

Component 2

Buffer Implementation

- 20x2020 Regional Target
- Water Transfers
- Aggressive adaptive actions
- Up to 10% of retail demand

Component 3

Foundational Actions

- Implement lowregret foundational actions
- Monitor key vulnerabilities
- Initiate adaptive resource options if conditions justify

The Plan Extends Reliability Goals and Planning

- The Core Resources Strategy ensures: that "Metropolitan and its member agencies will have the full capability to meet full-service demands at the retail level under all foreseeable hydrologic conditions."
- Implementation of a Buffer ensures: that additional resources will be developed to effectively manage new challenges and change
- Foundational Actions ensure: that Metropolitan and its member agencies can advance low regret actions to develop new supply options as needed to address future changes

Next Steps – Near Term

- Today: IRP Committee overview of Draft 2010 IRP
- July 16: Overview with member agencies
- July 21: Comments due from stakeholders
- July 27: Board Workshop on Draft 2010 IRP
- August 3-12: Stakeholder Forums