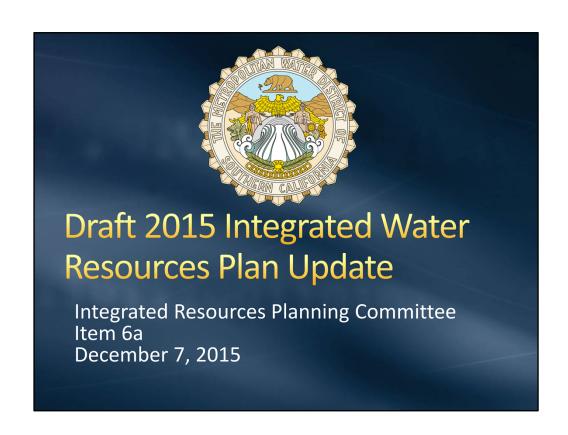
# IRP Committee Item#6a Subject: Draft 2015 Integrated Water Resource Plan Update Purpose: The purpose of this item is to transmit the Draft 2015 IRP Update report

# IRP Committee Item #6a Summary This oral report provides an overview of the Draft 2015 IRP Update. This overview includes a look at the structure and main message items of the Draft 2015 IRP Update report.





## Background & Changed Conditions

### **Background & Changed Conditions**

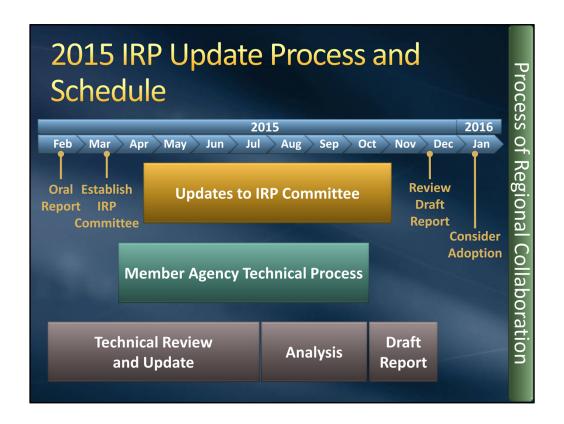
Changes Since the 2010 IRP Update

- Demands
  - Lower demographic projections
  - Significant new conservation savings
- Local supplies
  - Some new supplies coming online
  - Major reductions in groundwater projections
- Delta fix
  - Projected yield of SWP is lower
- Additional risks to consider

**Process of Regional Collaboration** 

- The 2015 IRP Update Approach
- Board of Directors Oversight and IRP Committee
- Collaboration with Member Agencies
- Public Outreach

Process of Regional Collaboration



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

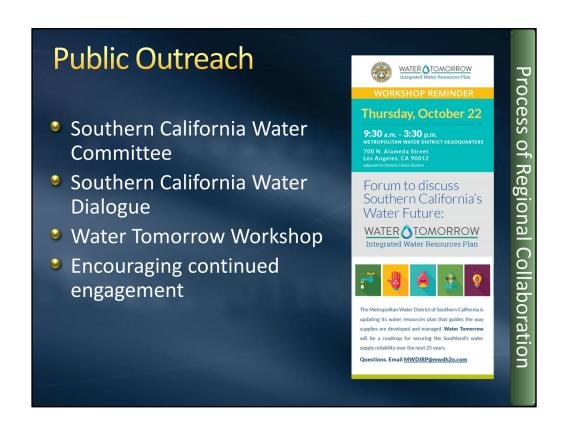
### Board -

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



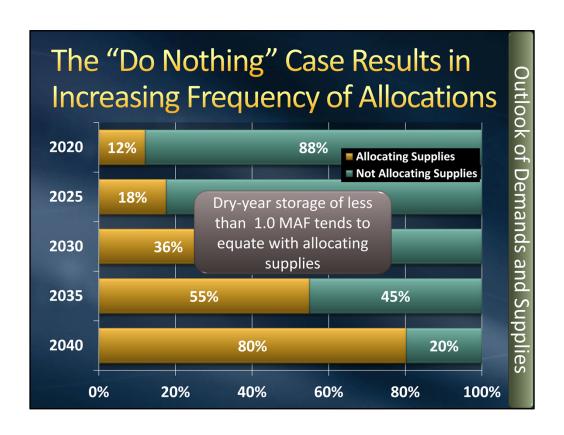
SCWC – June "drought proof strategy" 150 people SCWC - August future of outdoor water conservation 125 people SCWD – September overview of IRP and technical analysis 75 people Workshop – 450 people

Continued engagement – public speakers for community and business Social media Innovation game

### Outlook of Demands and Supplies

### **Outlook of Demands and Supplies**

- Description of Water Conservation
- Description of Regional Water Resources
- Forecasting the Regional Need
- Imported Supply Forecasts
- Remaining Need: The Regional Water Balance
  - Analysis of the "Do Nothing" Case



### An Adaptive Management Strategy

- Resource and Conservation Reliability Targets
  - Reliability with Target Development: The "IRP Approach" Case
  - Transfers and Exchanges Strategy
- Additional Risk and Uncertainty
  - Potential development needed to meet risks and uncertainties
  - Future Supply Actions

Colorado River Aqueduct

- Develop sufficient base supply programs to ensure a minimum of 900 TAF of diversions
- Maintain flexible programs to ensure access to 1.2 MAF of diversions in dry-years

CRA (MAF)	2016	2020	2025	2030	2035	2040
Minimum Diversion Target	0.90	0.90	0.90	0.90	0.90	0.90
Dry-Year Diversion Target	1.20	1.20	1.20	1.20	1.20	1.20

State Water Project

- Manage flow and export regulations through collaborative science-based approaches
- Pursue a long-term Delta solution through continued participation in the California WaterFix/California EcoRestore efforts

SWP (MAF)	2016	2020	2025	2030	2035	2040
Minimum Deliveries	0.21	0.23	0.23	0.31	0.31	0.31
Average Deliveries	1.20	0.98	0.98	1.21	1.21	1.21
Maximum Deliveries	2.02	1.70	1.70	1.86	1.86	1.86

### Conservation

- Pursue additional savings through the State's Model Water Efficient Landscape Ordinance
- Continue device-based programs in support of achieving conservation targets
- Ensure consistency with 20x2020 goals

Conservation (MAF)	2016	2020	2025	2030	2035	2040
Total Conservation Target	1.03	1.10	1.20	1.31	1.40	1.52

An Adaptive Management Strategy

**Local Supplies** 

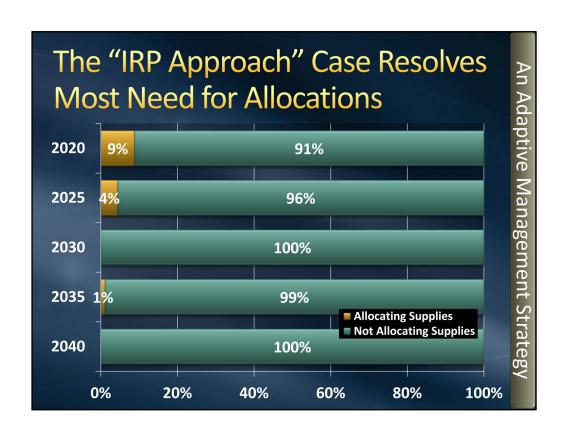
- Ensure that the total local supply production target is reached
  - 2.43 MAF by 2040
  - 230 TAF increase projected from 2016 to 2040
- Recognize risks and potentially develop additional supplies
  - 2014 actual local supplies were only 1.95 MAF

Local Supplies (MAF)	2016	2020	2025	2030	2035	2040
Total Local Supply Target	2.20	2.31	2.36	2.39	2.41	2.43

### Draft 2015 IRP Update Targets Total Supply Reliability

Total (MAF)	2016	2020	2025	2030	2035	2040
Retail Demands before Conservation	4.88	5.22	5.39	5.53	5.66	5.79
Total Conservation Target	1.03	1.10	1.20	1.31	1.40	1.52
Retail Demands after Conservation	3.84	4.12	4.19	4.22	4.26	4.27
Minimum CRA Diversion Target	0.90	0.90	0.90	0.90	0.90	0.90
Average Year SWP Target	1.20	0.98	0.98	1.21	1.21	1.21
Total Local Supply Target	2.20	2.31	2.36	2.39	2.41	2.43
Total Supply Reliability Target	4.30	4.19	4.24	4.50	4.52	4.54

An Adaptive Management Strategy



### Transfers and Exchanges Strategy

- Develop a comprehensive strategy to address near-term needs and build storage
  - Focus on obtaining additional supplies in normal and wet years
- Ensure strategy works in conjunction with Metropolitan and local storage

Message, we are prepared for a dry year!

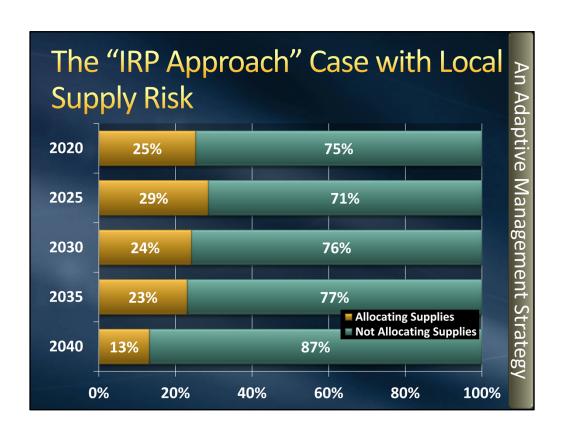
2013 ending balance - 2.353 MAF, rounds to 2.4 MAF

Outlook of Demands and Supplies

# An Adaptive Management Strategy

### Additional Risk and Uncertainty

- Climate change
- Water quality
- Regulatory and operational changes
- Project construction and implementation
- Infrastructure reliability and maintenance
- Demographic growth and uncertainty



# An Adaptive Management Strategy

### **Future Supply Actions**

- Low cost/low risk actions to prepare for additional development as needed
  - Recycling, groundwater recovery, stormwater, seawater desalination
  - Formerly known as "Foundational Actions"
- Categories of Future Supply Actions
  - Public Outreach
  - Legislation/Regulation
  - Technical Studies/Support
  - Land/Resource Acquisition

### Closing Materials

- Information for Future Discussions
  - A Glance at Future Resource Development Costs
  - Monitoring Uncertainty and Identifying Vulnerability
- Findings and Conclusions

Closing Materials

### Appendices

### 2015 Draft IRP Update Appendices

- Additional Background
- 2015 IRP Update Issue Paper Addendum
- Central Valley Storage and Transfer Programs
- In-Region Storage Programs
- Local Resource Projects
- Regional Demographic Projections
- Econometric Demand Model
- Demand Forecast Methodology

2015 Draft IRP Update Appendices

- Conservation Savings Model
- Imported Supply Forecasts
- IRPSIM Model
- Cost Data

pendices

### **Next Steps**

- Incorporate feedback back from today's IRP Committee meeting
- January 11, 2016 consider adoption of the 2015 IRP Update

