

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

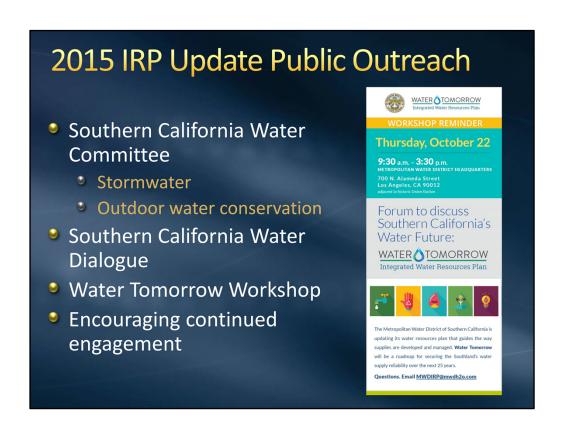
Board -

Reporting in Feb and March (IRP Committee)

Monthly Updates from MA tech process

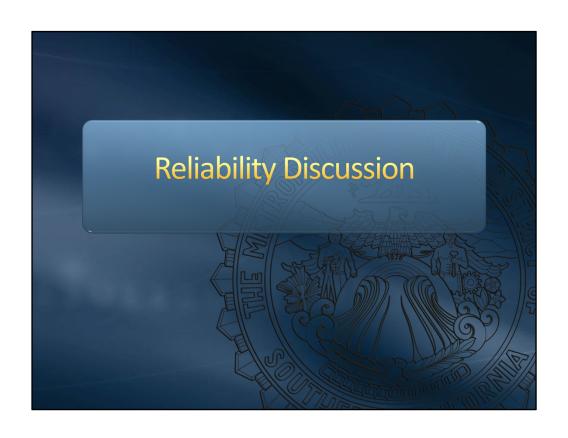
Wrapping up around the end of the year, head into Board Policy Process

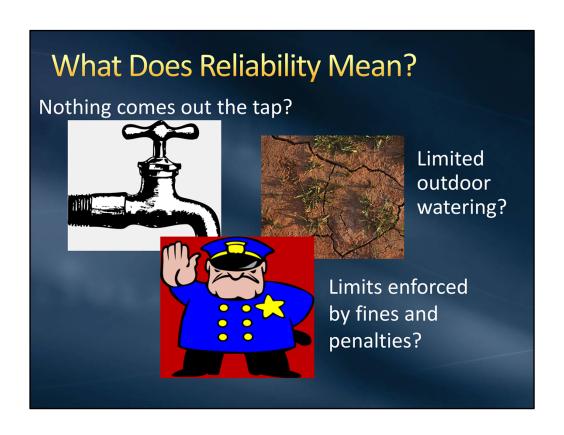
Following slides breakdown activities at Board and MA levels



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

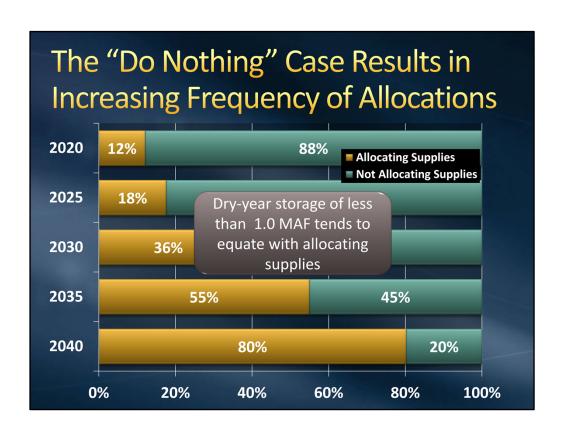




What is the Purpose of Reliability Analysis?

- Evaluates whether a supply mix meets demands in a manner consistent with reliability goals
- Serves as a test case
 - Tests supply and demand forecasts
 - Test ranges and variability due to climate and hydrologic factors sampled from 1922-2012
- Shows how many times out of 91 that there is no shortage, and what the resulting storage conditions are





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

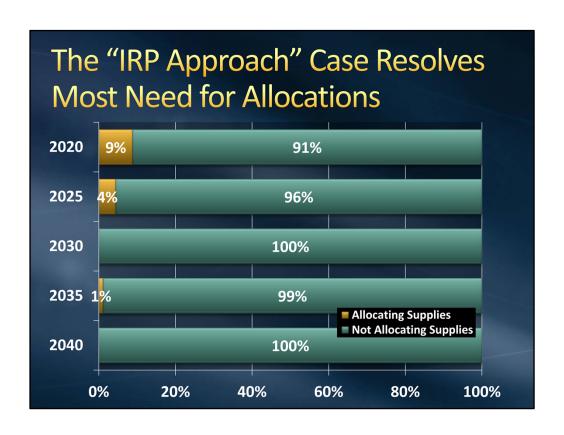
Local Supplies

- 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



Transfers and Exchanges Strategy

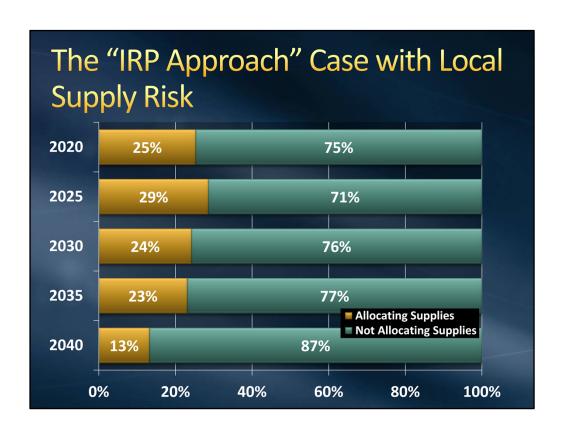
- Develop a comprehensive strategy to address near-term needs and build storage
 - Focus on obtaining additional supplies in normal and wet years
- Ensure strategy works in conjunction with Metropolitan and local storage

Message, we are prepared for a dry year!

2013 ending balance - 2.353 MAF, rounds to 2.4 MAF

Additional Risk and Uncertainty

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



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



Policy Issues Have Been Identified

- Policy issues were identified through IRP Committee discussion, IRP Technical Workgroup, IRP Issue Paper review, and public outreach
- Policy discussion and direction is needed to effectively implement IRP targets
 - Regional and retail water supply reliability
 - Conservation program and approach
 - Local Resources development and regional role
 - Storage management goals and operational framework
 - Transfers and Exchanges approach

Summary of Policy Questions

(Details Presented in December 2015)

- Regional and retail water supply reliability
 - Is reliability a guarantee?
 - What level of reliability should we plan for?
- Conservation program and approach
 - How do we achieve permanent reductions in outdoor water use in conjunction with MWELO?
- Local Resources development and regional role
 - What is the regional role in developing local water?

Summary of Policy Questions

(Details Presented in December 2015)

- Storage management and operational framework
 - How should regional and local storage work to meet reliability?
- Transfers and Exchanges
 - How can transfers and storage work together to improve reliability?

A Focus on Policy Principles

- Implementing the IRP Targets has been accomplished in the past through programs like the LRP and Conservation Credits Program
- Policy principles will help to guide in the review and reformation of program implementation
- Key Programs
 - Conservation Program
 - Local Resources Program/WSAP
 - WSDM Plan review for storage management
 - Water Transfers and Exchanges

Summary

- Metropolitan concluded a nearly one year technical update of the IRP with a January 2016 approval
- The 2015 IRP Update provides updated resource development targets
- Next steps include policy discussions to guide the implementation approaches

