



Overview of proposed Lower Colorado River Basin Drought Contingency Plan

Water Planning and Stewardship Committee

Item 9-1

November 7, 2016

Background

- Interim Guidelines (2007-2026)
 - Shortage triggers for Arizona & Nevada
 - Consultation if Lake Mead drops below 1,025'
 - Silent on additional delivery reductions
 - ~10% chance of Lake Mead reaching 1,020'

Background (Cont.)

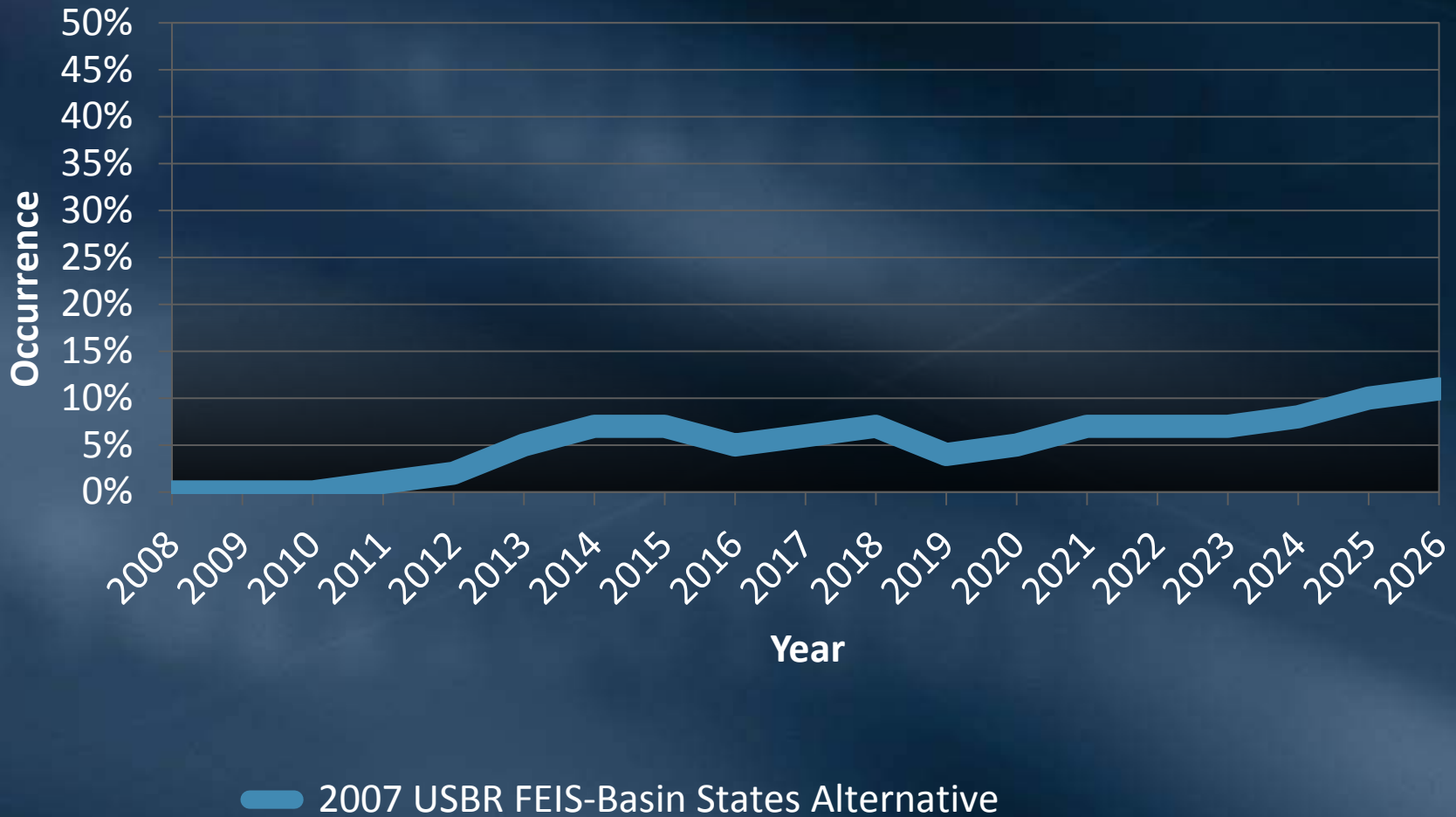
- Included Intentionally Created Surplus (ICS)
 - Key to filling CRA supplies in drought years
 - Metropolitan taken delivery of ~500,000 acre-feet
 - Arizona & California disagreed on how program would operate during shortages
 - Interim Guidelines do not address ICS delivery in shortage

Proposed Drought Contingency Plan

- Now ~25% chance of Lake Mead reaching 1,020'
 - Risks potentially greater from climate change
- MWD goals of proposed plan discussions
 - Continue cooperative collaboration on River
 - Reduce risk of Lake Mead falling to 1,020'
 - Resolve ICS delivery dispute

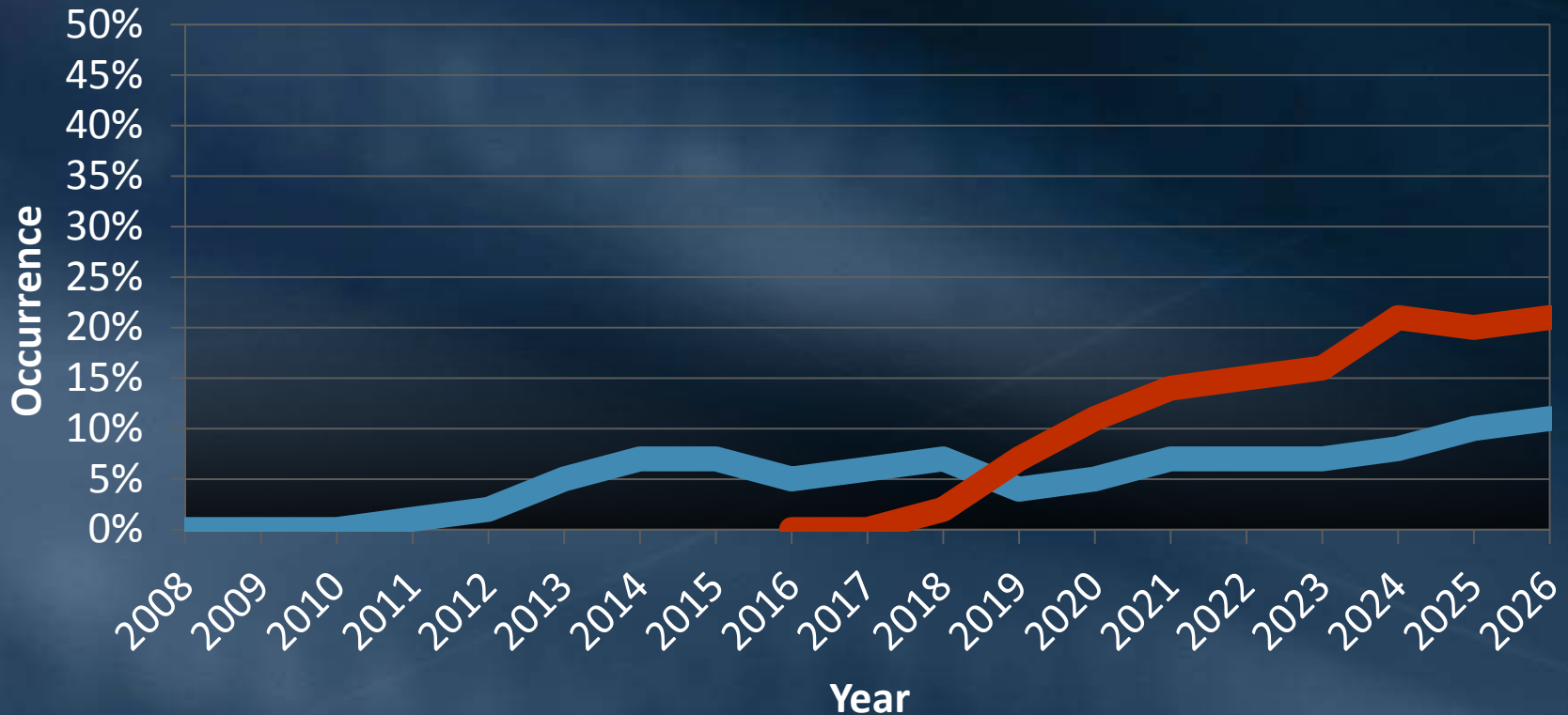
Probability of Lake Mead Elevation

Less than 1,020' in any month



Probability of Lake Mead Elevation

Less than 1,020' in any month

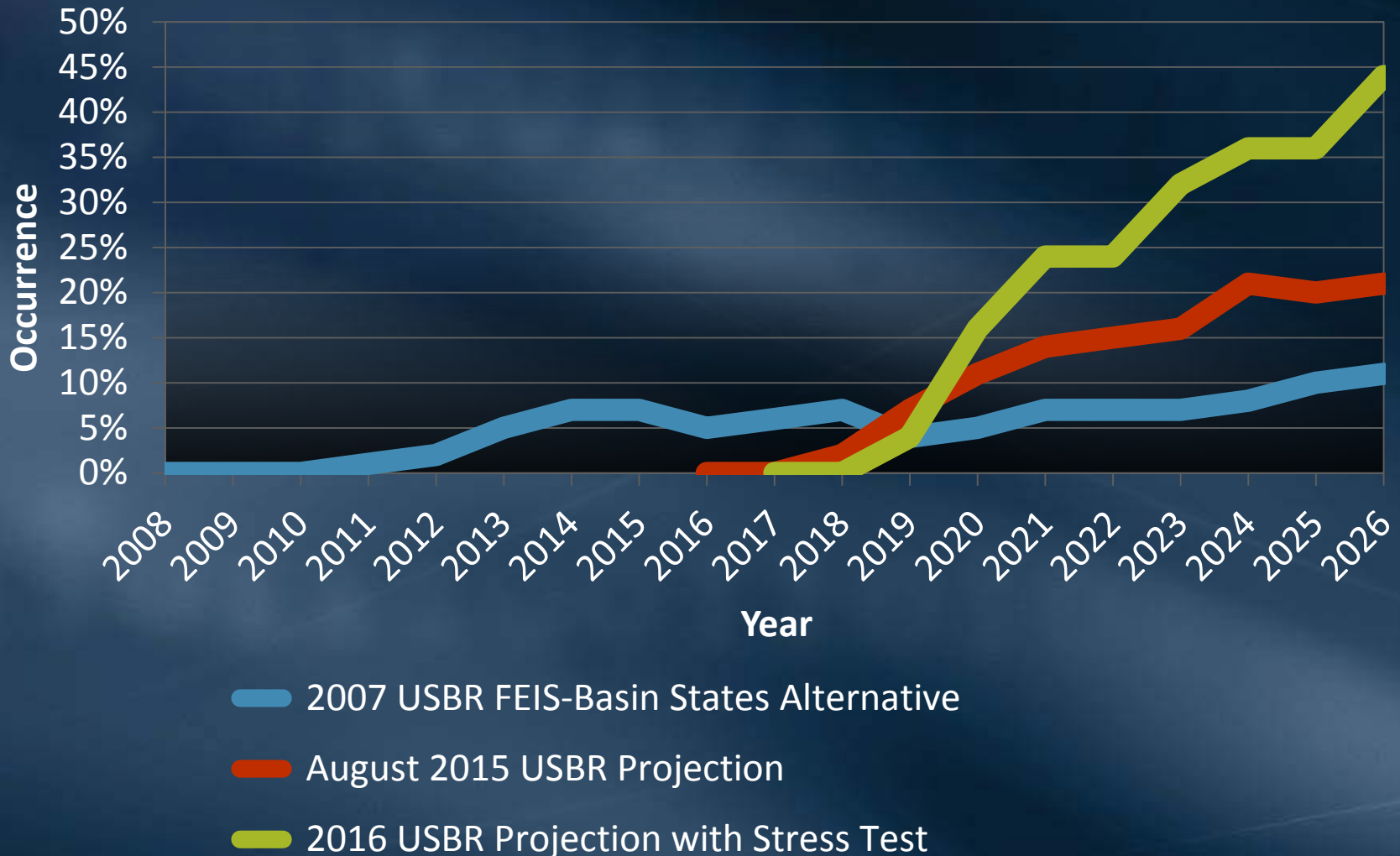


2007 USBR FEIS-Basin States Alternative

August 2015 USBR Projection

Probability of Lake Mead Elevation

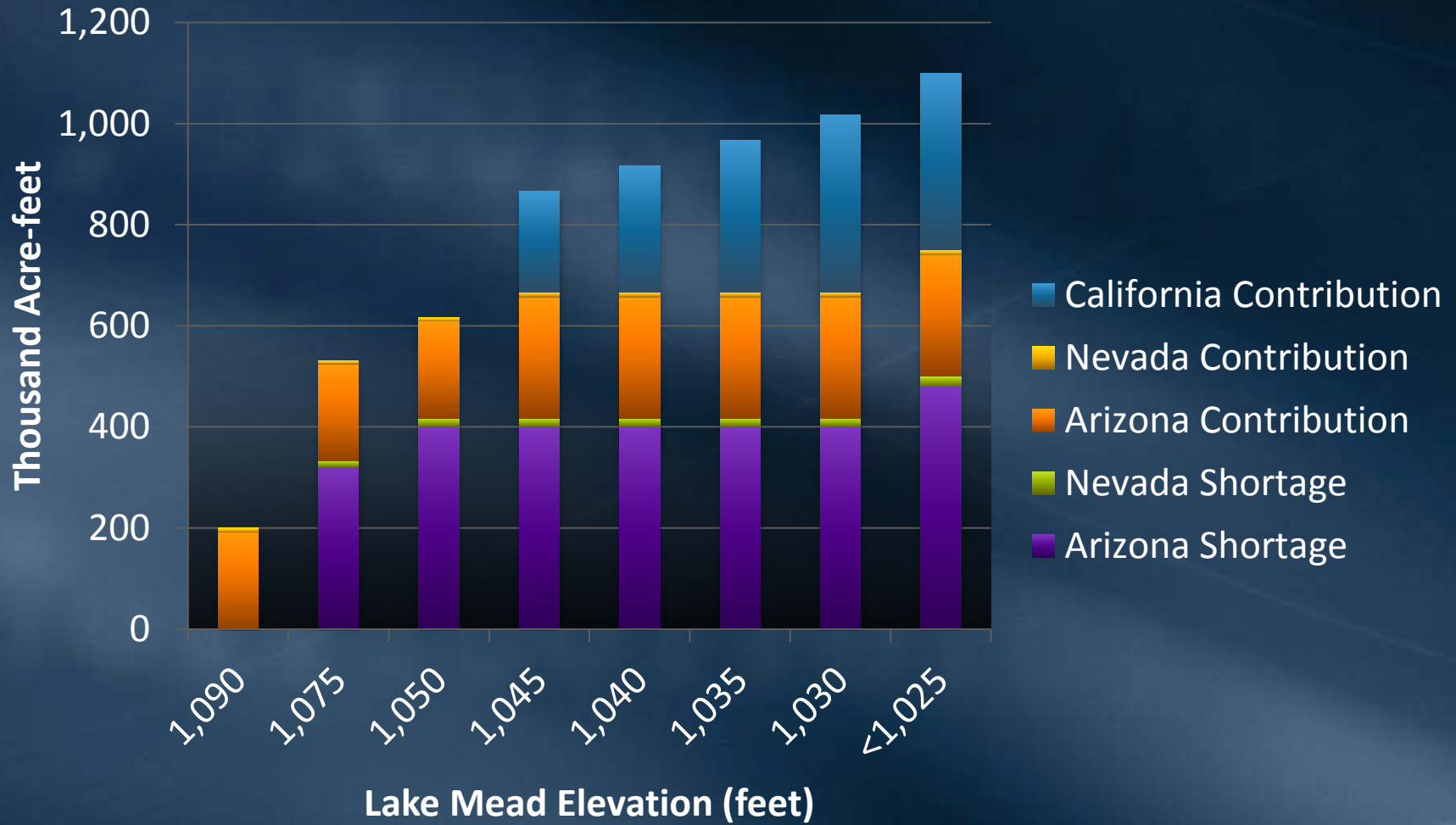
Less than 1,020' in any month



Summary of Proposed Plan

- Water use reductions triggers for each state
 - In addition to existing shortage amounts
- Cumulative cap on delivery reductions
- Delivery reduction amounts conditionally recoverable

Proposed Water Use Reductions



Summary of Proposed Plan (Cont.)

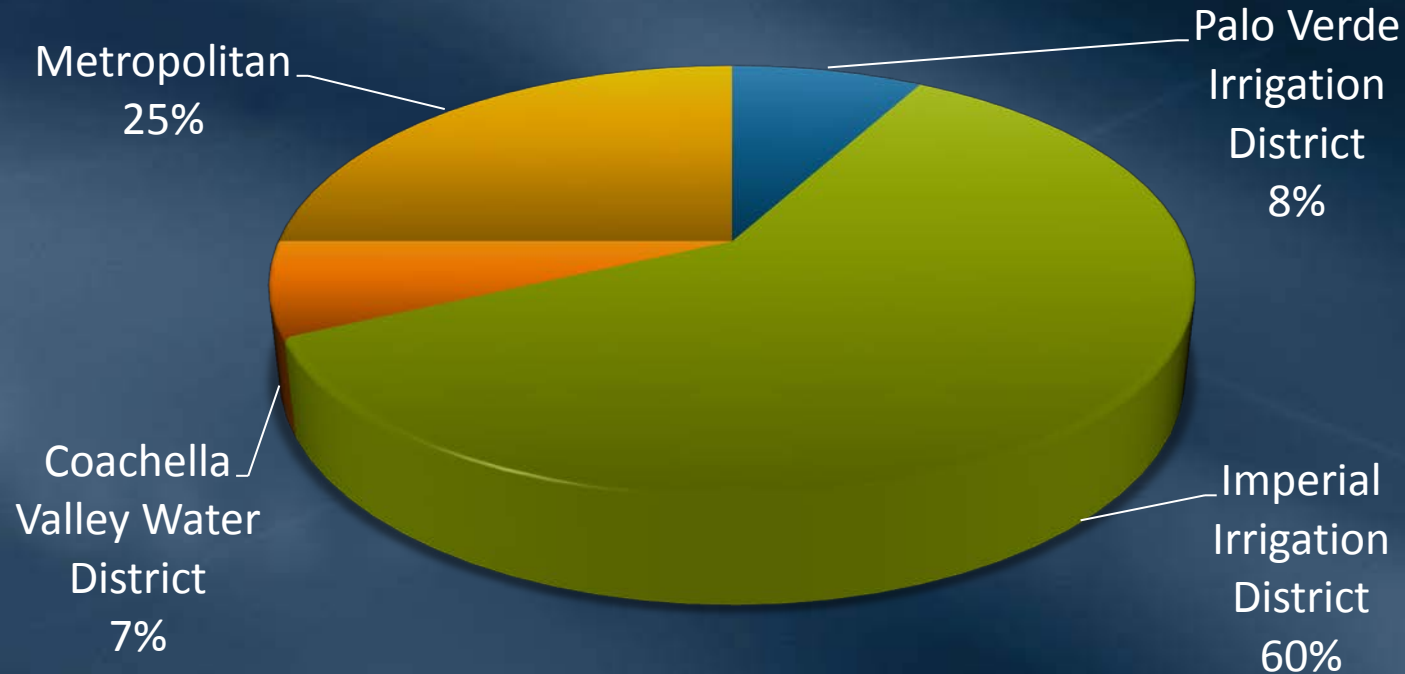
- Recovery of plan's delivery reductions
 - Access full reduction amount, to be returned within 1 year
 - Full reduction amount accessible if Lake Mead reaches 1,110'
 - If Lake Mead reaches 1,075':
 - Access full reduction amount, to be returned within 5 years, or
 - If not returned, subject to 20% system assessment

Summary of Proposed Plan (Cont.)

- ICS recoverable when Lake Mead above 1,025'
- Interstate banking/exchanges permitted when Lake Mead above 1,045'
- Binational exchanges permitted when Lake Mead above 1,025'

Proposed California Distribution of Contingency Plan Contributions

Delivery reductions* allocated:



*Reductions made by extraordinary conservation activities

Proposed Elements for California Implementing Agreements

- PVID – MWD Agreement
 - PVID to fallow additional land when triggered
 - MWD to reimburse PVID at following rate
 - PVID delivery reduction amount to accrue to MWD's account
- CVWD to reduce its call on 35,000 acre-foot QSA exchange agreement

Tentatively Proposed Elements for California Implementing Agreements

- Increased IID's ICS limits
- IID to implement additional water conservation measures to meet delivery reductions
- Verification committee established to determine amount of water conserved by IID programs

Tentatively Proposed Elements for CA Implementing Agreements (Cont.)

- Metropolitan may participate to fund a portion of IID conservation programs
 - Water added to IID's ICS account
 - Metropolitan has temporary access to water
 - IID responsible for any environmental mitigation

Probability of Lake Mead Elevation

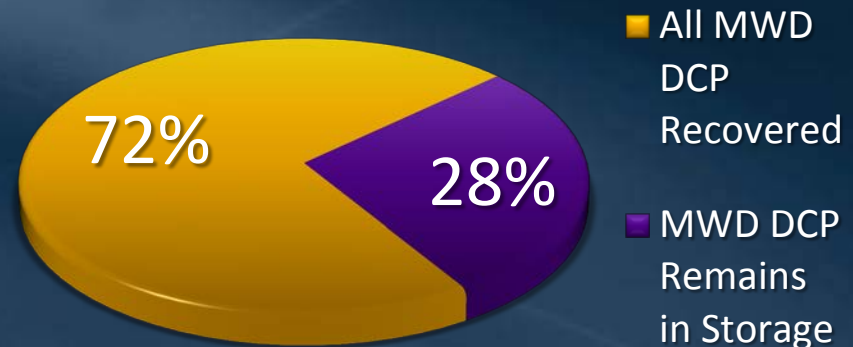
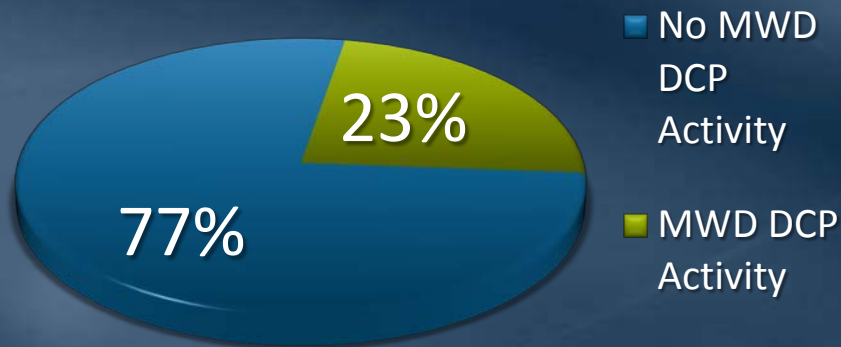
Less than 1,020' in any month



MWD DCP Reduction and Recovery

Likelihood of DCP Reductions*

Likelihood of DCP Recovery**

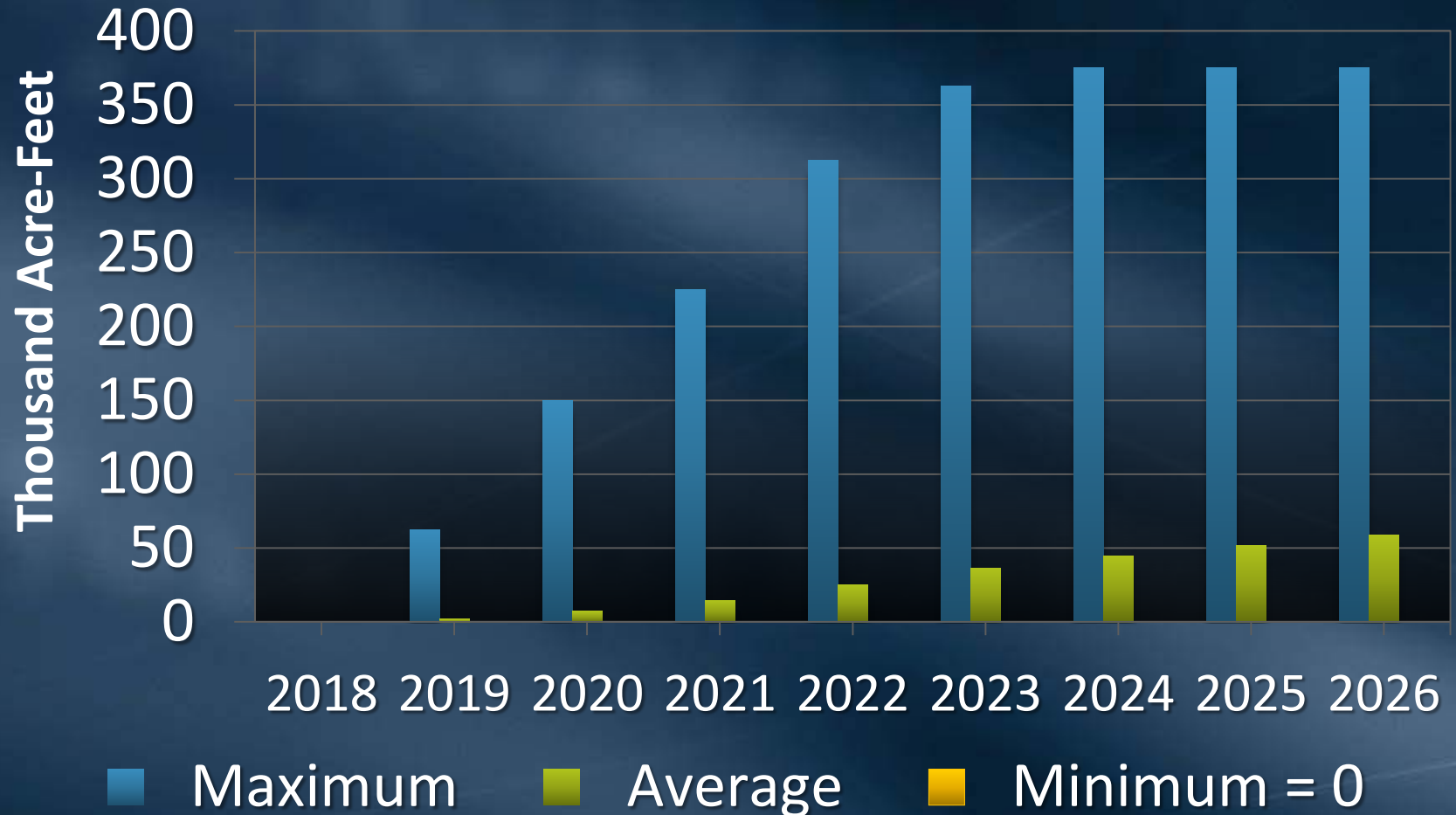


* Frequency based on 107 hydrologic traces

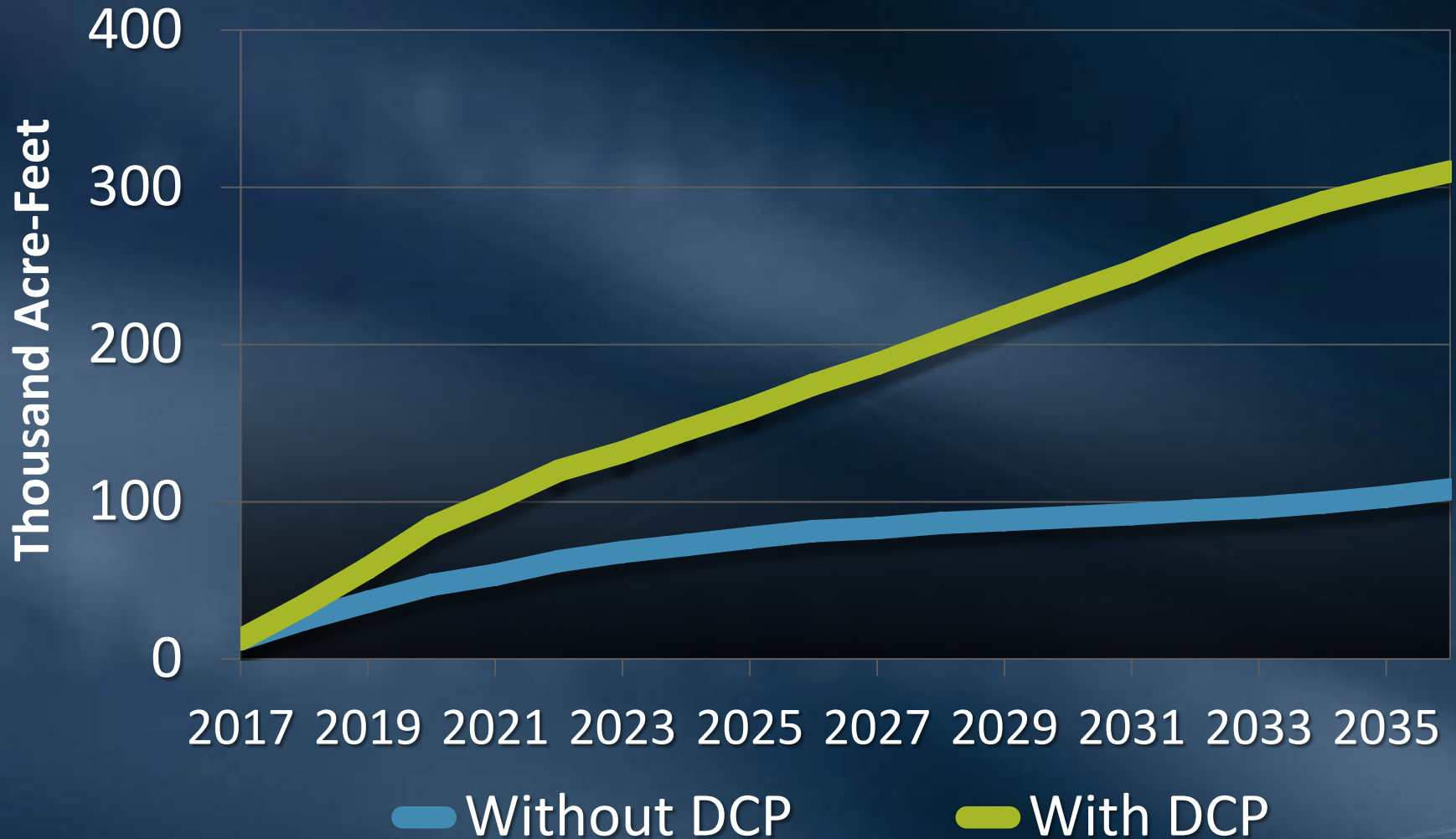
** Frequency based on 25 hydrologic traces with MWD DCP activity

Metropolitan DCP Contributions

Cumulative to the Year Shown



Cumulative Metropolitan ICS Takes



Summary of DCP Effects on MWD

- MWD could add water to Lake Mead
 - Ave. of 60 taf, up to 350 taf in driest scenario
- MWD could pay for additional ag conservation
- Reduced risk of Lake Mead reaching 1,020'
 - Stability on Colorado River
- Increased flexibility to help fill CRA (ICS, banking)
- Potential new supplies through CA agreements

