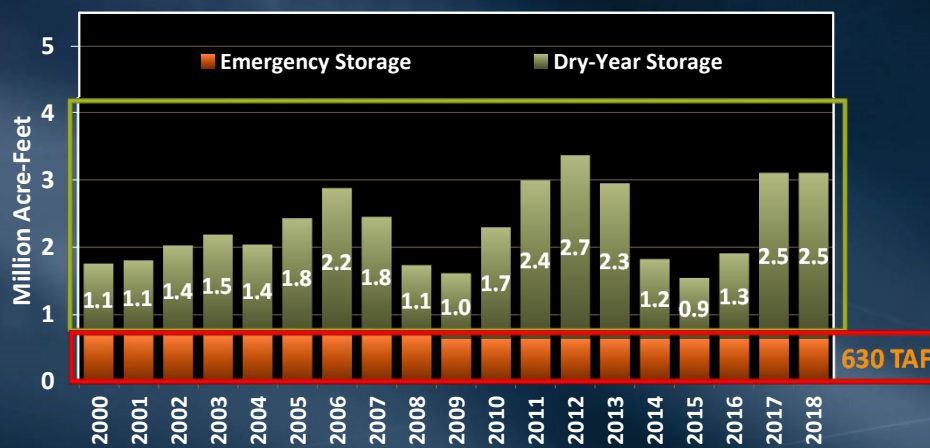




Evaluation of Regional Storage Portfolio Metropolitan's Emergency Storage Objective

MWDOC Workshop Meeting
April 3, 2019

Historic Metropolitan Dry-Year and Emergency Storage



Is 630 TAF still right planning level for emergency storage?

- Plans for damage to all imported water aqueducts
- Full evaluation last completed in May 2010
- Update this storage planning level based on:
 - New seismic information
 - Latest planning assumptions (2015 IRP)
 - Changed conditions at local level

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Slide 3

April 3, 2019

Aqueducts cross San Andreas Fault to deliver imported supplies to the region



We reviewed emergency storage criteria and recommend updates

Outage Period

Retail Demand Reduction

Local Supply Production



MWDOC Board Workshop

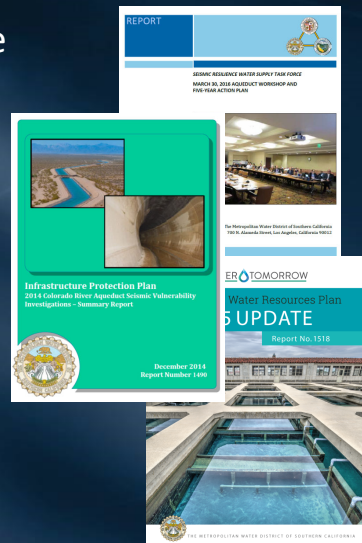
Slide 5

April 3, 2019

Outage Period

Period of time imported water aqueducts are out of service

- Findings from Seismic Resilience Taskforce
 - DWR, LADWP, Metropolitan
 - M7.8 ShakeOut scenario
 - Vulnerability assessments and estimated restoration timelines
- Lessons learned from recent years of drought and supply challenges



Outage Period

Period of time imported water aqueducts are out of service

- Current criteria is 6 months outage for all imported supply aqueducts
- New criteria:
 - **6 months:** Areas served by CRA and most areas served by East Branch
 - **12 months:** Areas served by West Branch and Los Angeles Aqueduct
 - **Effect:** Increases emergency storage need if all other factors remain constant

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April 3, 2019

Retail Demand Reduction

Mandatory reduction on retail demand during outage period

- Current criteria is 25% reduction
 - **Based on retail demands in IRP**
- Update focused on reducing outdoor use
- New criteria:
 - **25% to 35%** to be reasonable range



Local Supply Production

Level of local supply production by MAs during outage period

- Current criteria is 100% local production
 - Member agencies to produce local supplies at IRP level
- Update considered damage to local facilities and variable duration of repair
- New criteria:
 - Local production level at **80% to 100%**

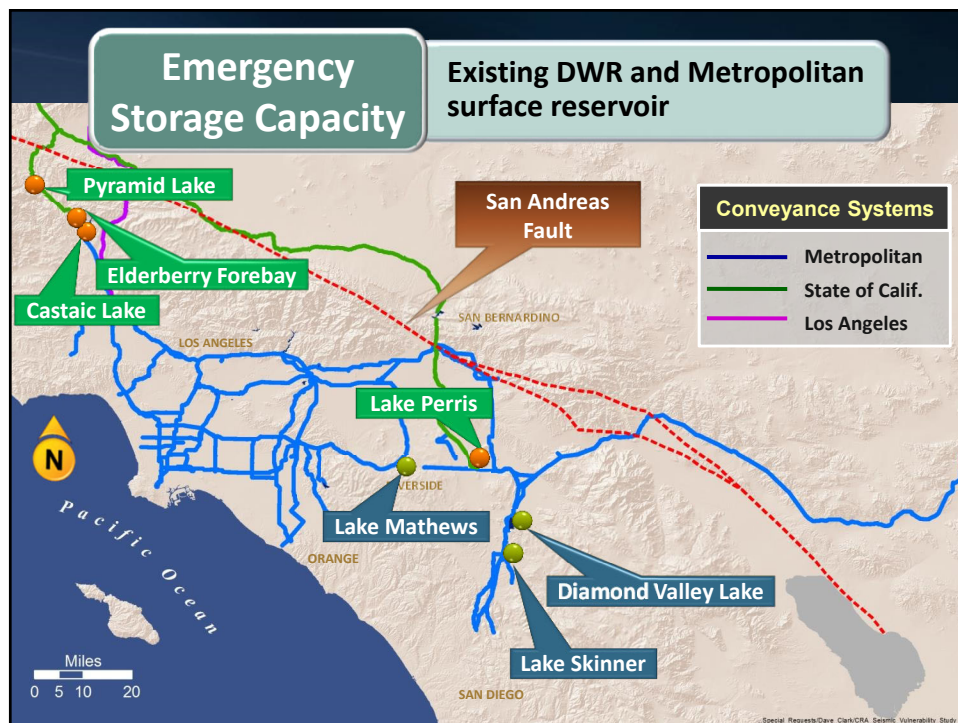


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What is the status of evaluating new storage planning level?

- White paper drafted and reviewed
- Emergency storage volume is likely to increase
- Continuing discussions of local storage with some member agencies

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April 3, 2019

We updated the emergency criteria

	Current	Draft Recommendation
Outage Period	• 6 months	• 6 months: CRA, EB • 12 months: WB, LAA
Retail demand Cutback	• 25%	• Range: 25% to 35%
Local Supply Production	• 100% MAs reported in IRP	• Range: 80% to 100%
Emergency Storage Capacity in Existing Reservoirs	• DWR and Metropolitan surface reservoir	• Follow-up: Spatial and System Analysis
		Periodic Update of Emergency Storage

Next Steps

- Emergency Storage Objective
 - Board Information in May 2019
 - White paper documents the updated emergency criteria and storage objective
- Review dry-year storage
 - Spatial and distribution system analyses
 - Evaluation of existing Metropolitan storage programs

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April 3, 2019

