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Coping with Water Scarcity in River Basins  
Worldwide: Lessons Learned from Shared  
Experiences (Martz Summer Conference, June  
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6-9-2016

# SLIDES: Arizona Contributions to Address Lake Mead's Structural Deficit

Amy McCoy

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# Arizona Contributions to Address Lake Mead's Structural Deficit

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2016 Martz Summer Conference | June 9, 2016

*Amy McCoy, Director  
Aylward + McCoy & Pilz Consulting LLC*



# Lower Basin Allocations from Lake Mead

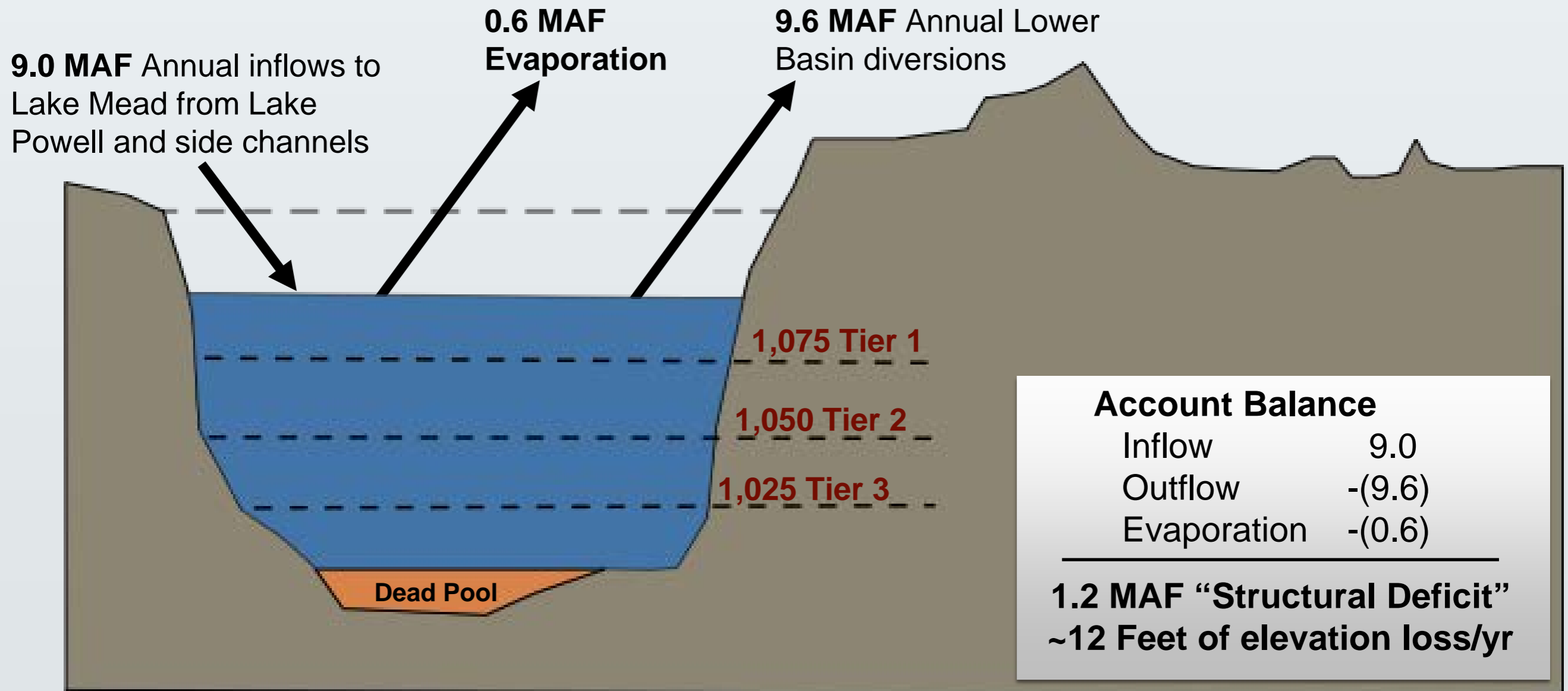
California 4.4 maf  
 +  
 Arizona 2.8 maf  
 +  
 Mexico 1.4 maf  
 +  
 Nevada 0.3 maf

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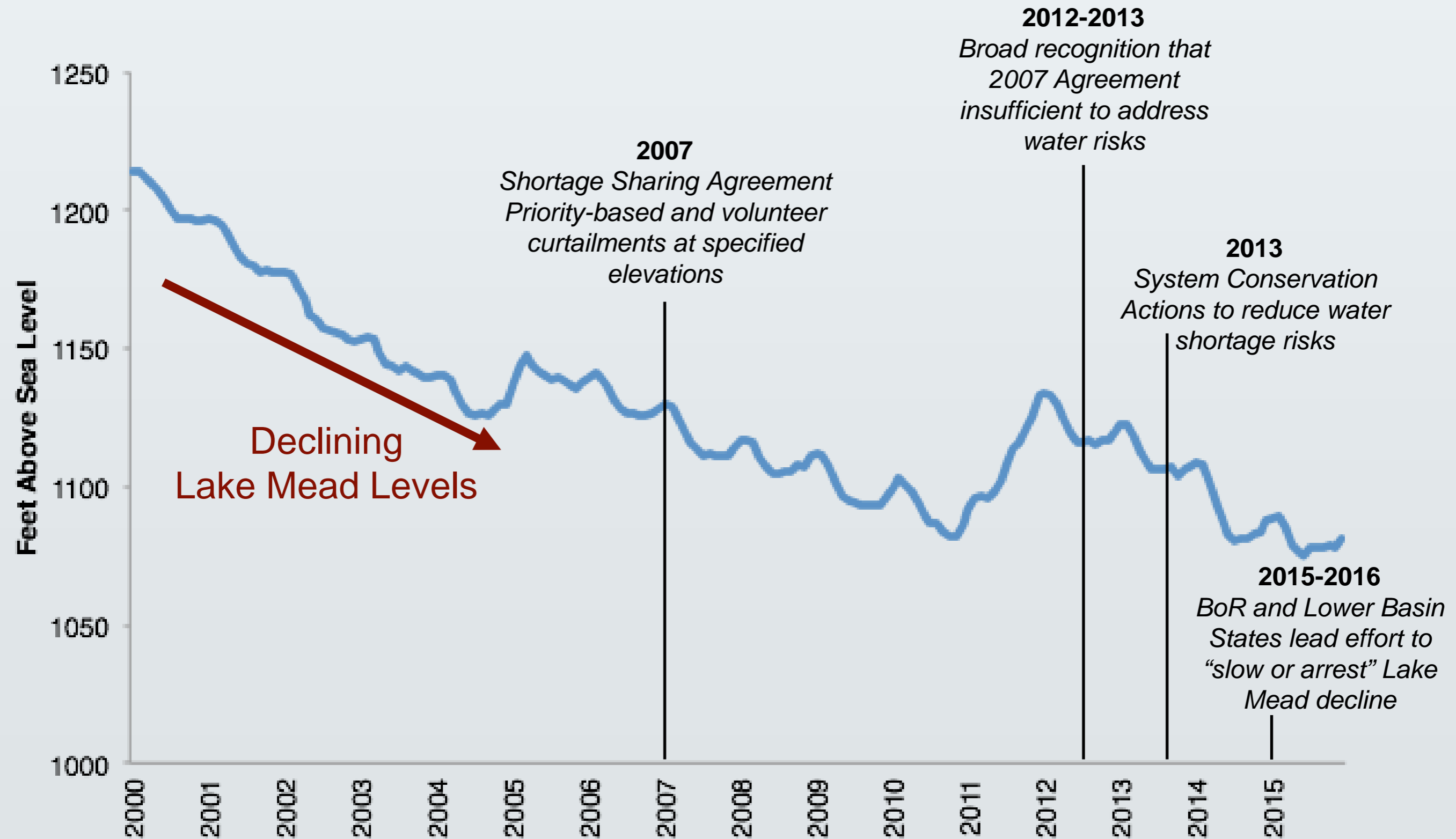
Lower Basin ~9.0 maf

Map Source:  
[www.newyorker.com/magazine/2015/05/25/the-disappearing-river](http://www.newyorker.com/magazine/2015/05/25/the-disappearing-river)

# Lake Mead Structural Deficit



# Response to Structural Deficit



# Proposed Lower Basin Drought Contingency Plan

## *Potential Shortage Sharing Among All Users*

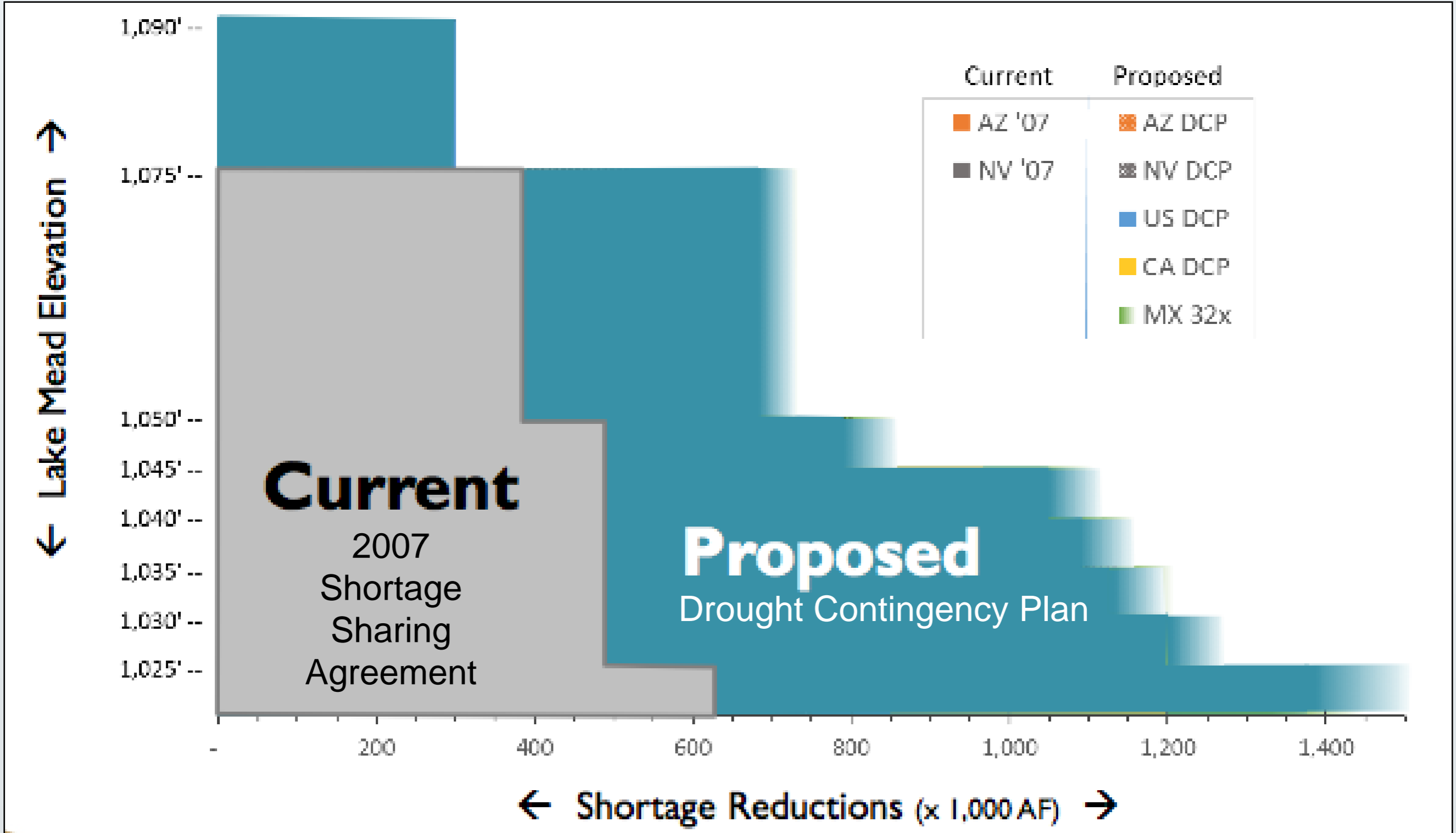
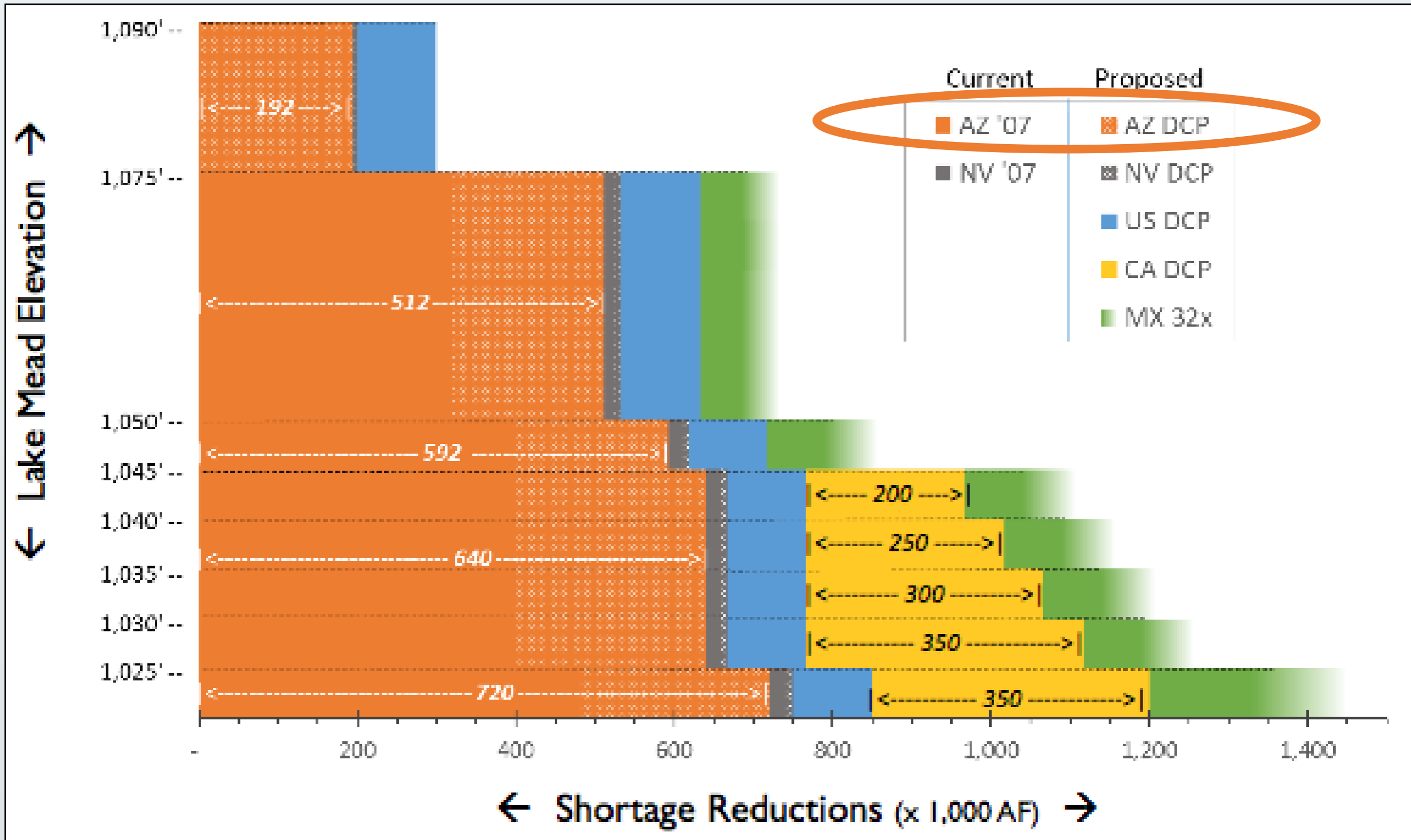


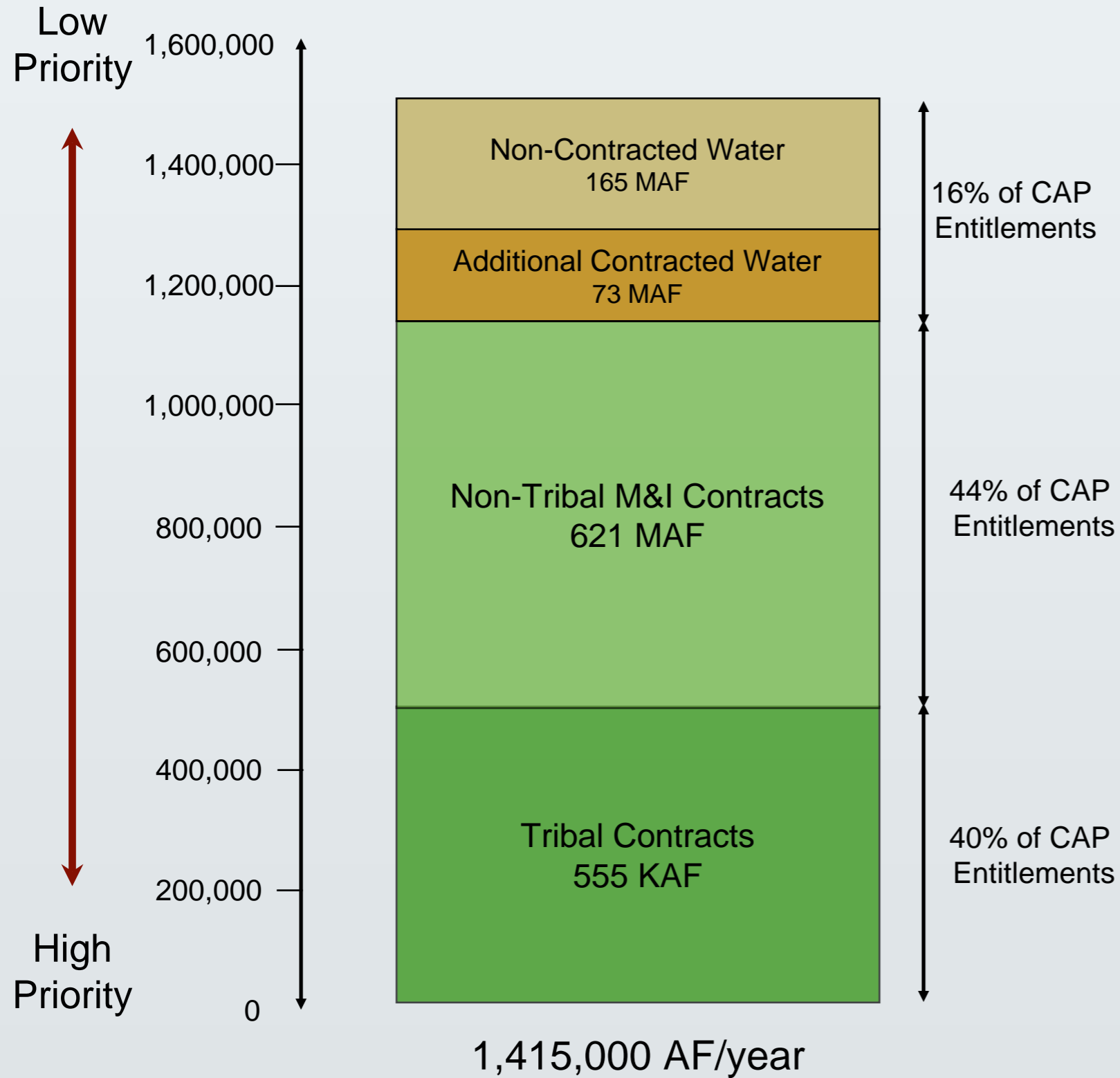
Figure Source: CAP Board Meeting, May 8, 2016

# Implications for Arizona

## Greatest volume of curtailments

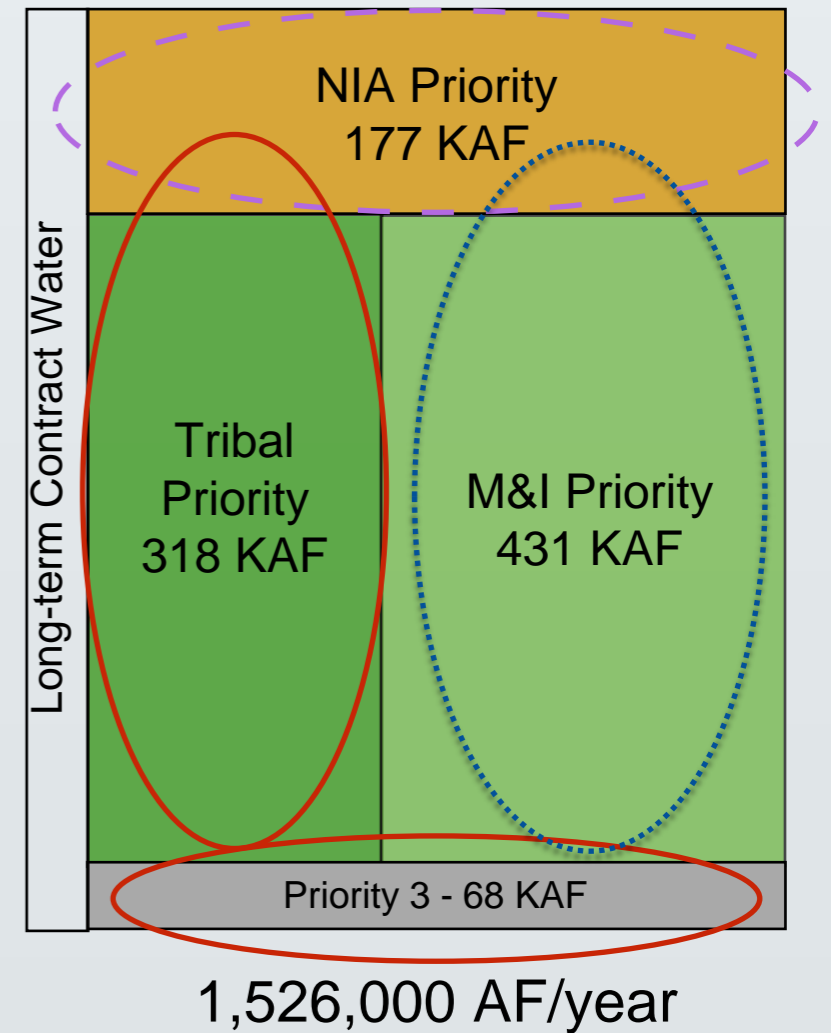
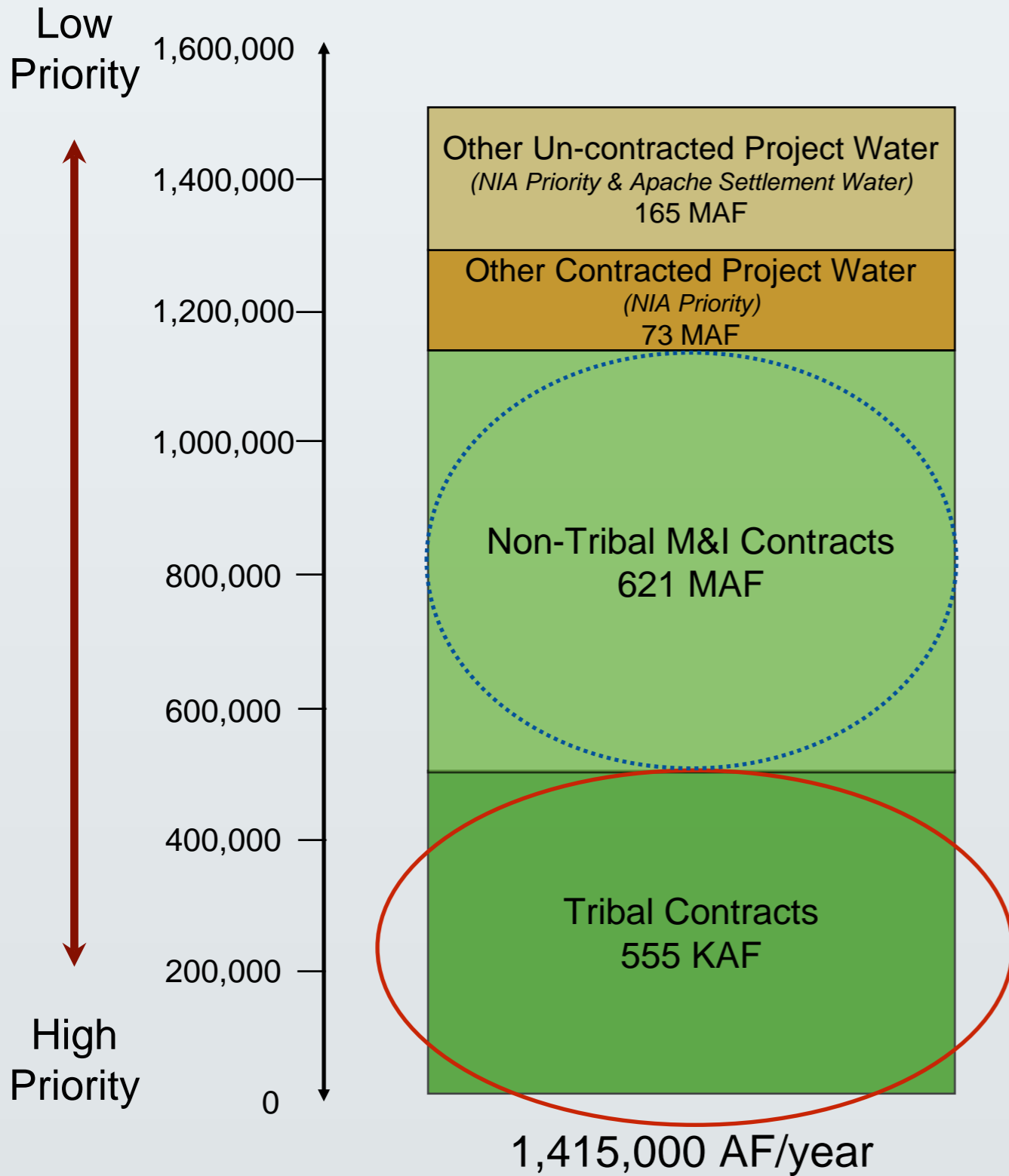


# 2015 CAP Entitlements

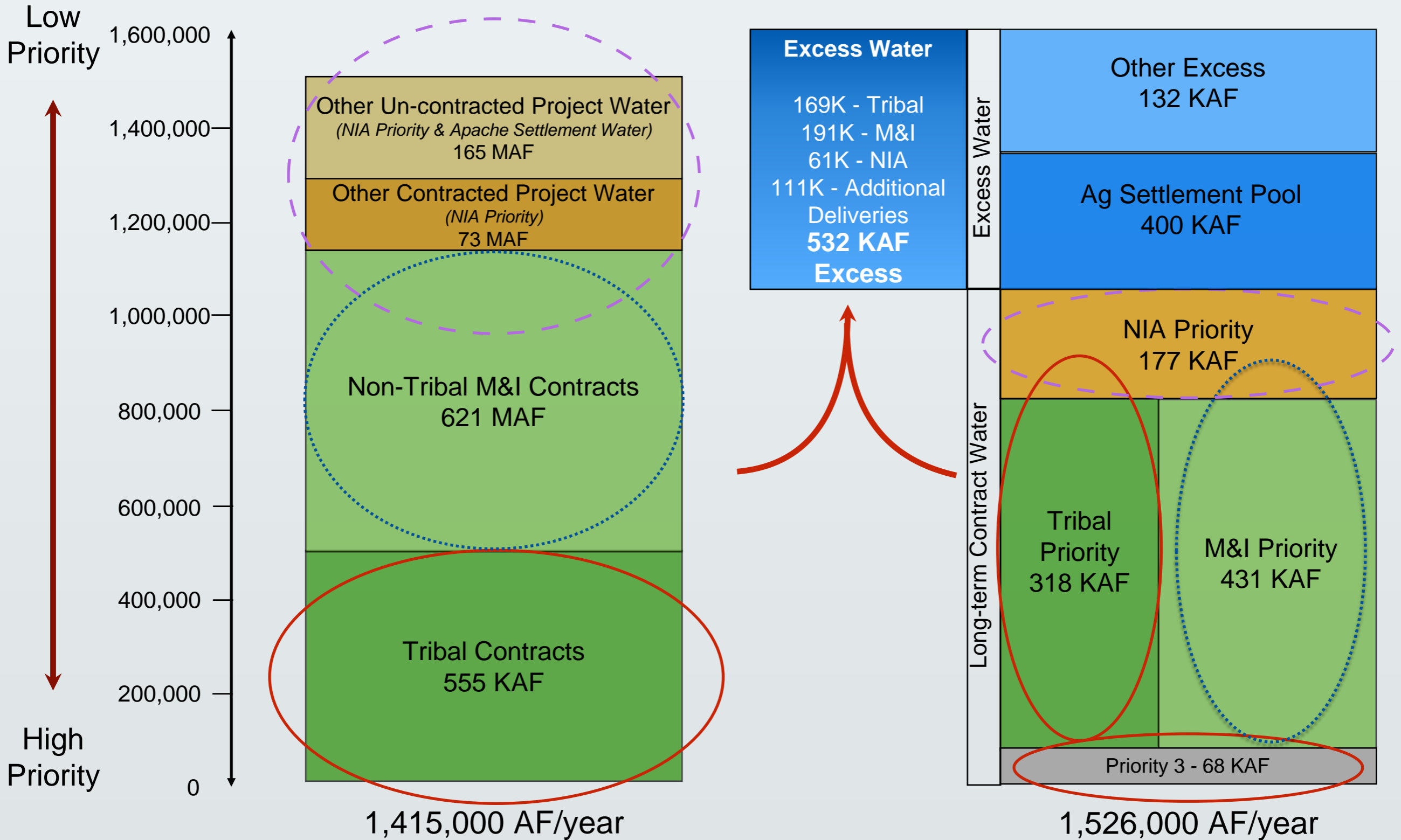




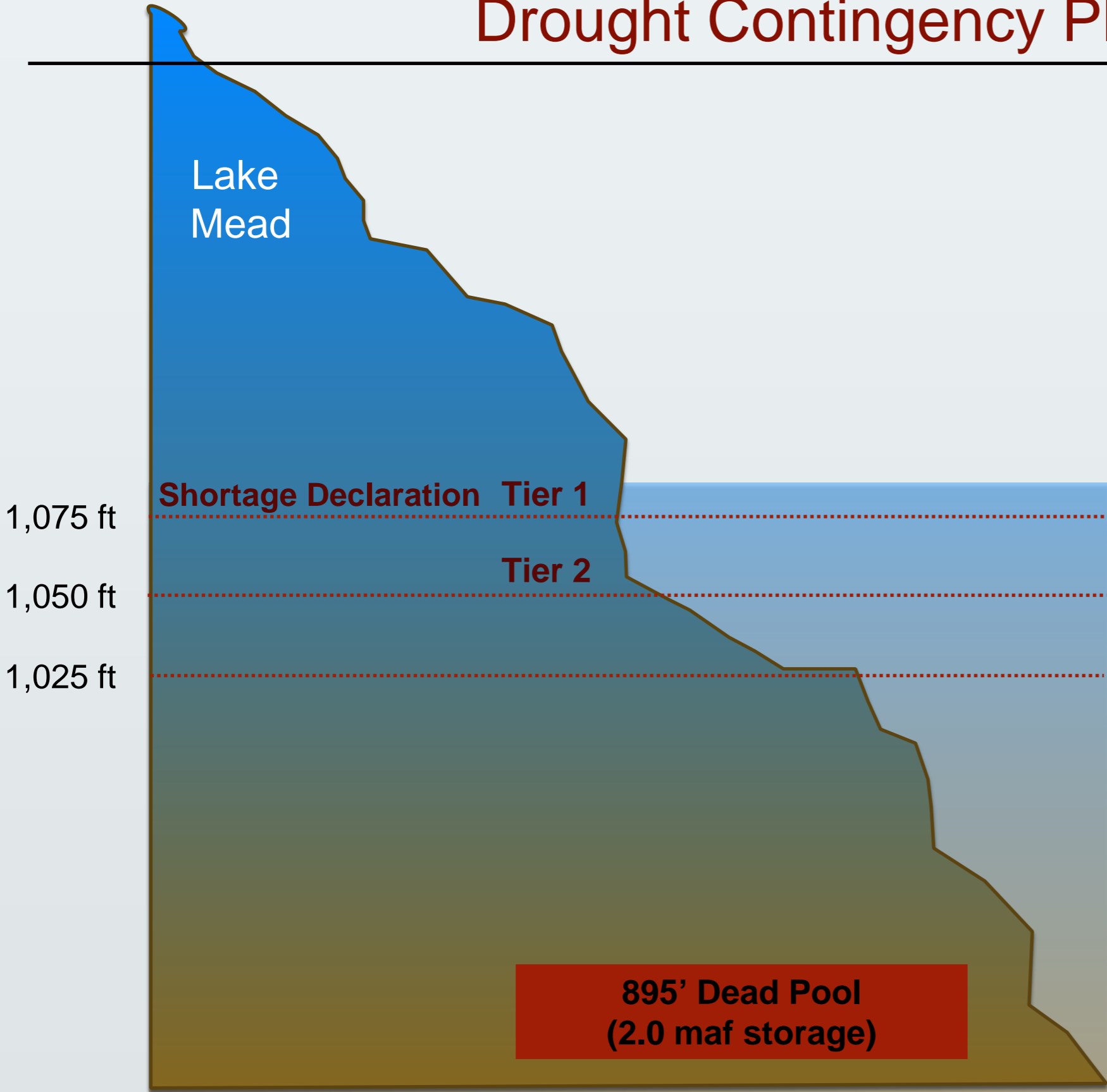
# 2015 CAP Deliveries



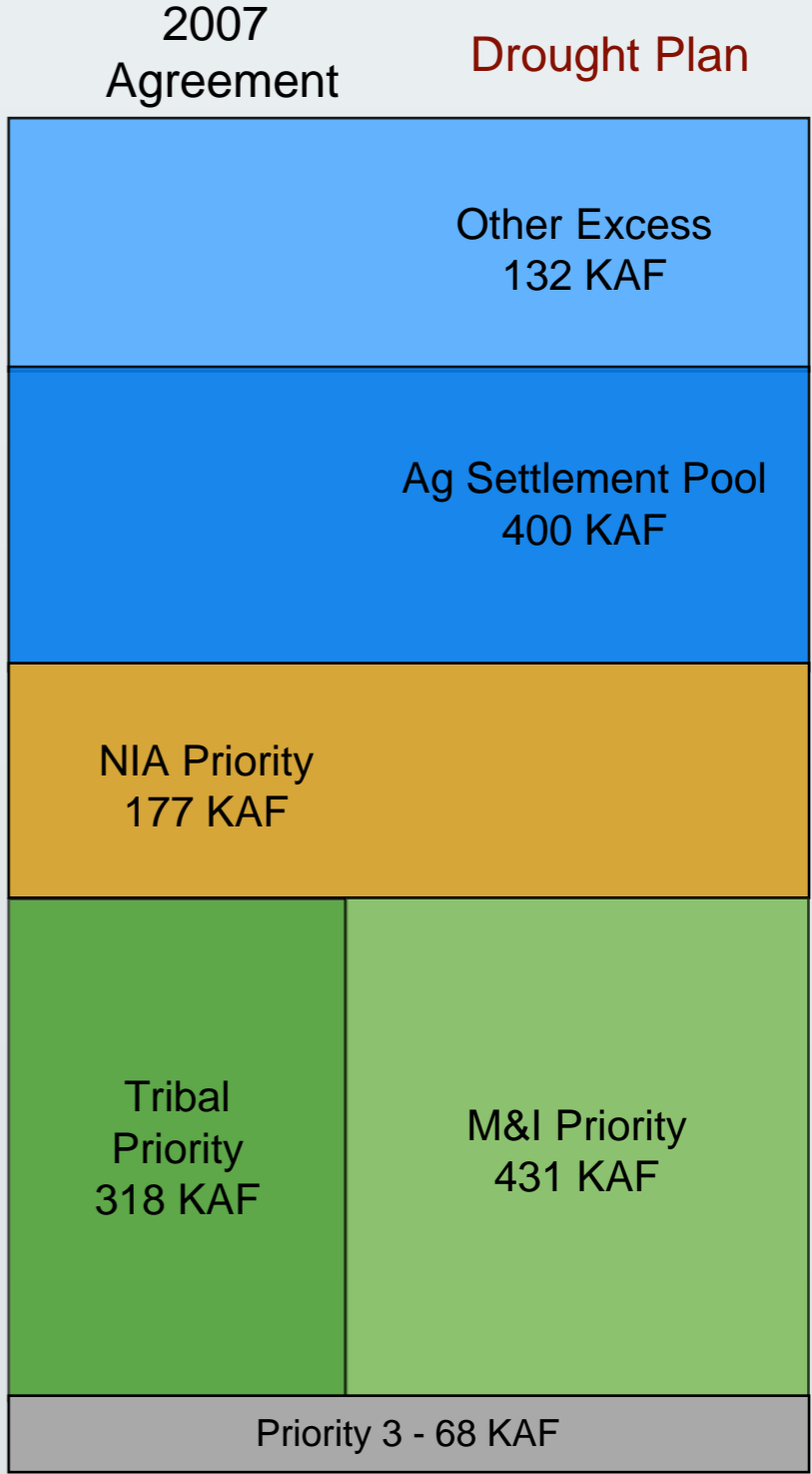
# 2015 CAP Deliveries



# 2007 Agreement + Drought Contingency Plan



## CAP Curtailments



# 2007 Agreement + Drought Contingency Plan

## Tier 1 Curtailments

Lake  
Mead

Shortage Declaration Tier 1

Tier 2

1,075 ft

1,050 ft

1,025 ft

**895' Dead Pool  
(2.0 maf storage)**

## CAP Curtailments

2007  
Agreement

Drought Plan

Tier 1  
300,000 AF  
Curtailment

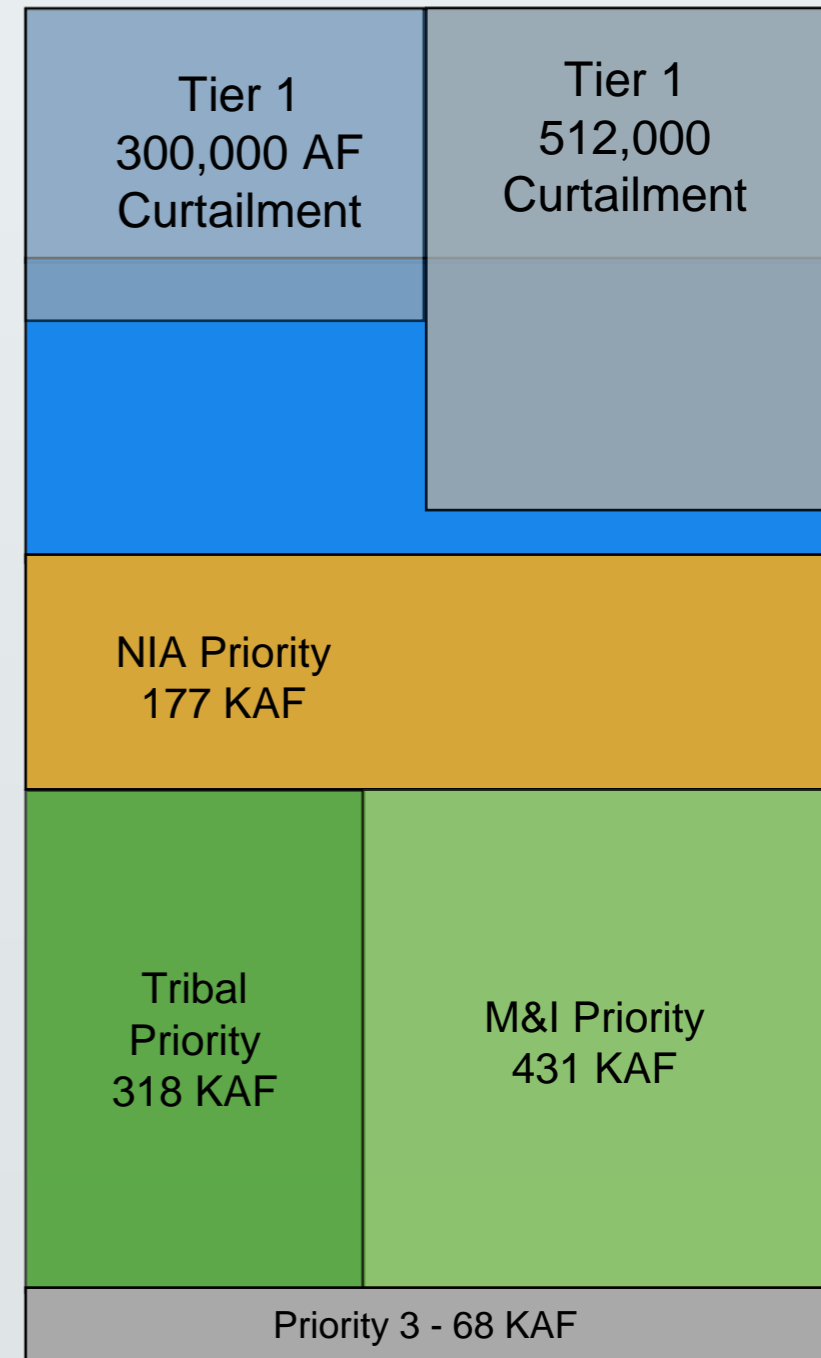
Tier 1  
512,000  
Curtailment

NIA Priority  
177 KAF

Tribal  
Priority  
318 KAF

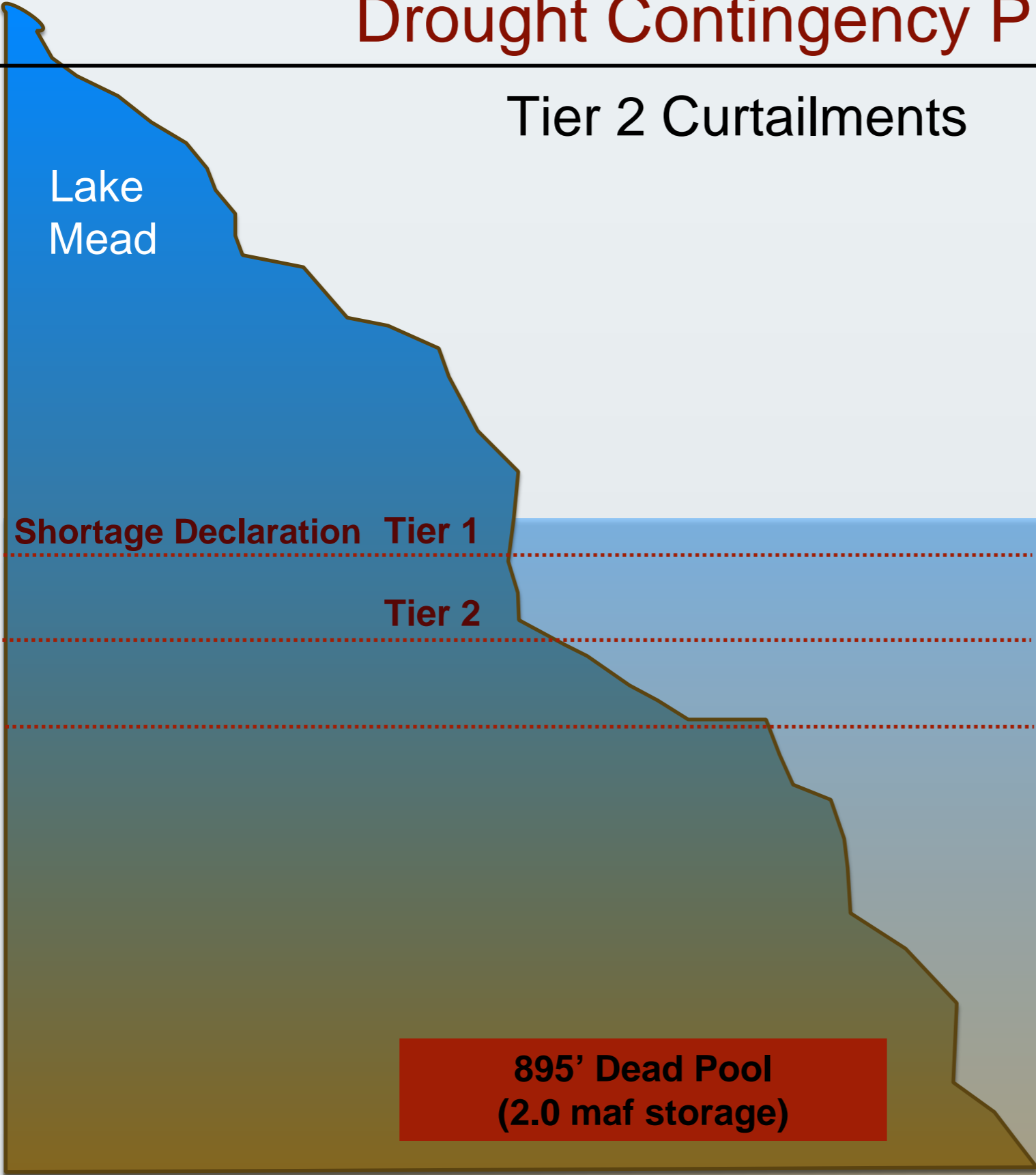
M&I Priority  
431 KAF

Priority 3 - 68 KAF



# 2007 Agreement + Drought Contingency Plan

## Tier 2 Curtailments



## CAP Curtailments

2007 Agreement      Drought Plan

Tier 2 400,000 AF Curtailment	
	Tier 2 From 592,000 AF
	↓
NIA Priority 177 KAF	720,000 AF
Tribal Priority 318 KAF	M&I Priority 431 KAF
Priority 3 - 68 KAF	

# How Can Arizona Absorb the Curtailments Outlined under the Drought Contingency Plan?

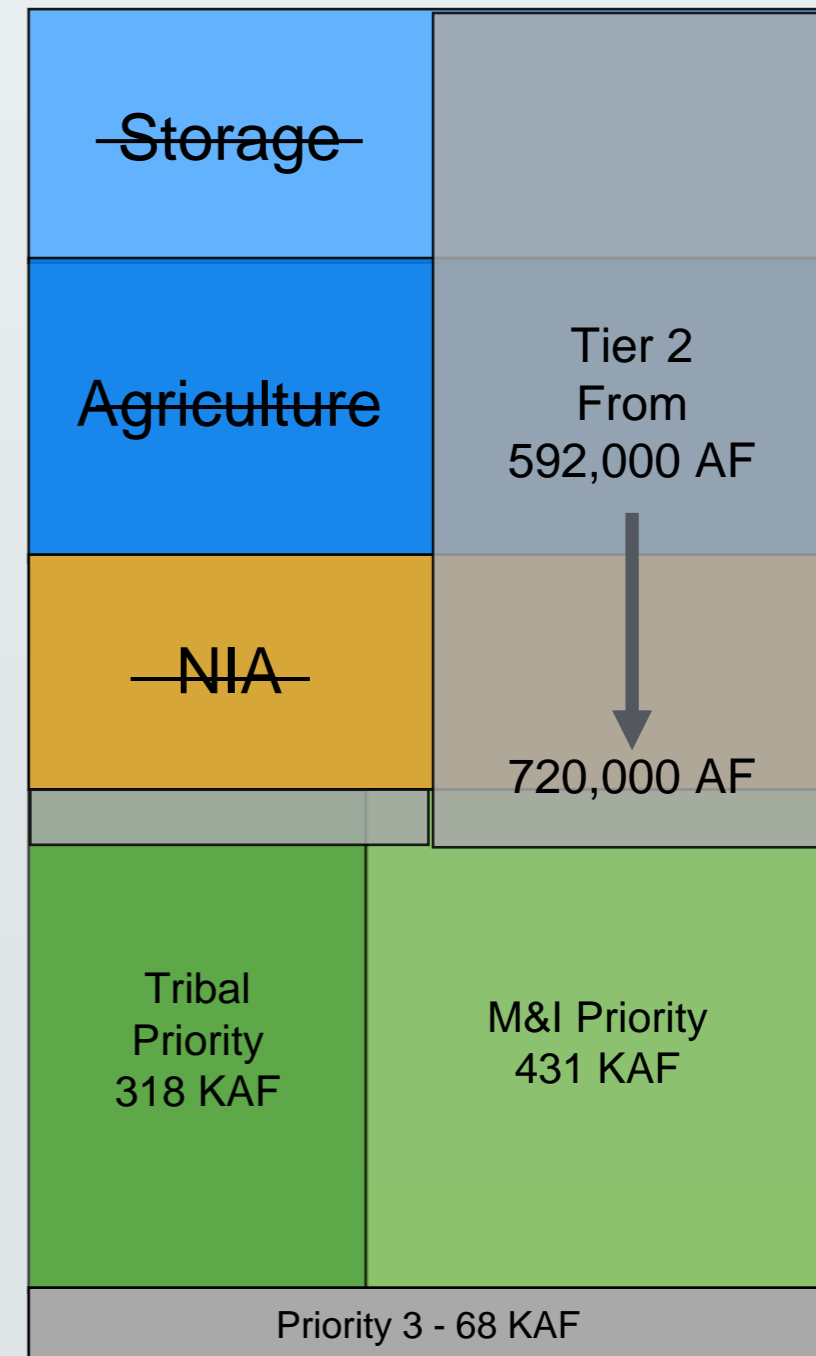
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“There are opportunities to lessen those effects and, more importantly, to spread the consequences more equitably among agriculture, municipalities and tribes. To that end, I have begun to reach out to water managers in Arizona to explore a collective and voluntary sharing of the impacts and benefits of this potential new agreement.”

*Tom Buschatzke*

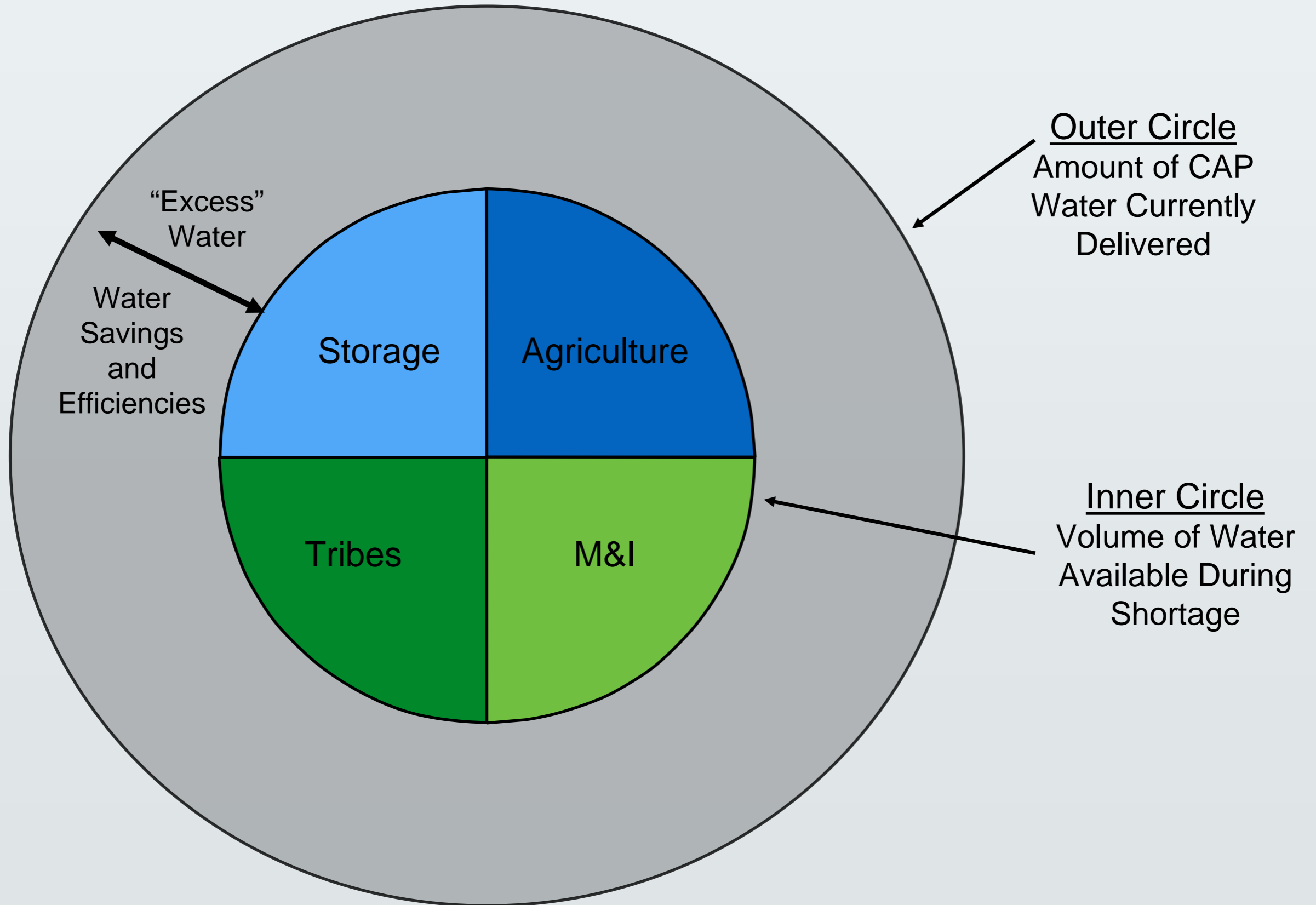
*Director of the Arizona Department of Water Resources,  
April 22 2016 in the Arizona Republic*

## CAP Curtailments



# “Share the Burden”

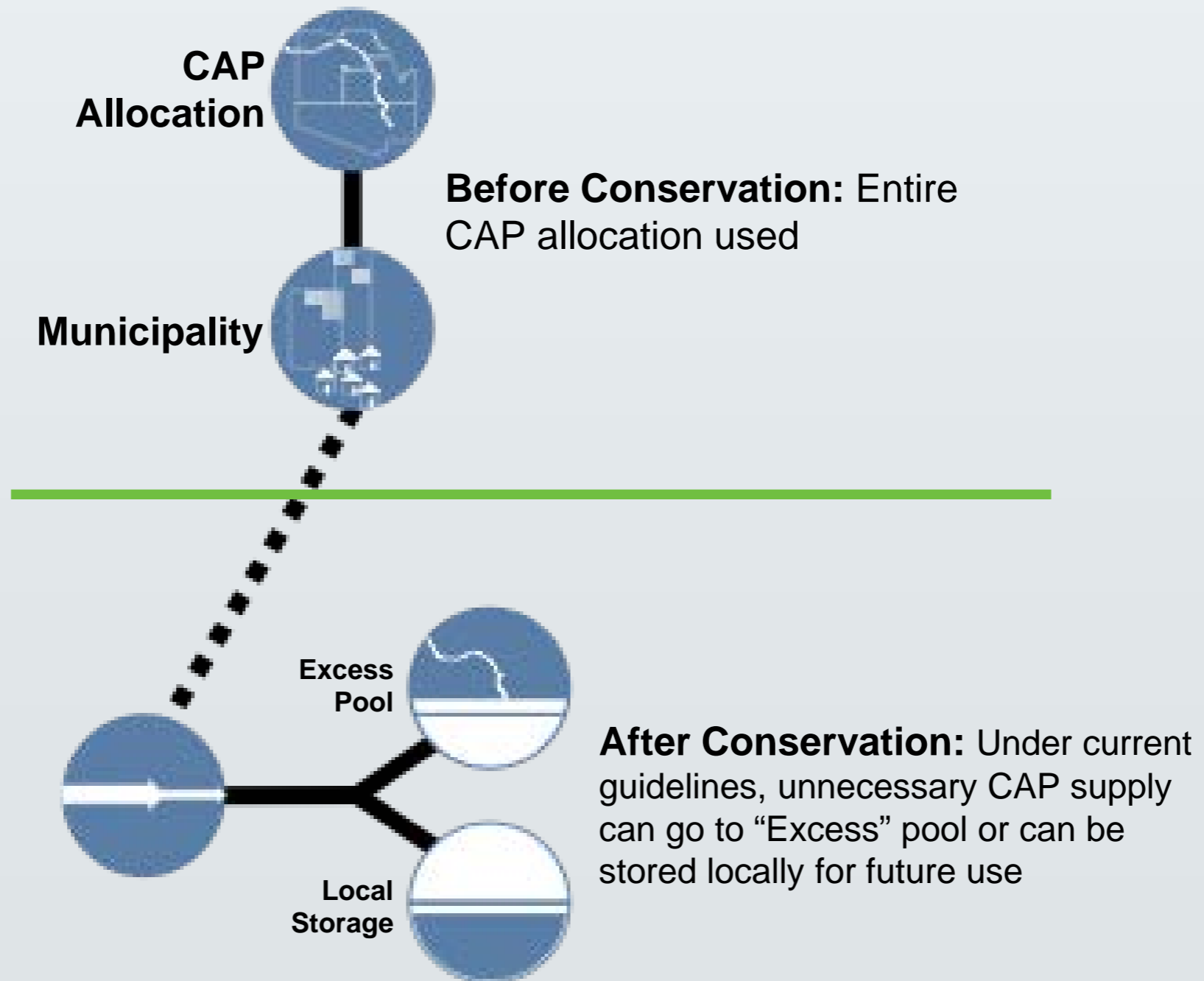
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# “Share the Remaining Water”



Reducing Demand Increases Flexibility

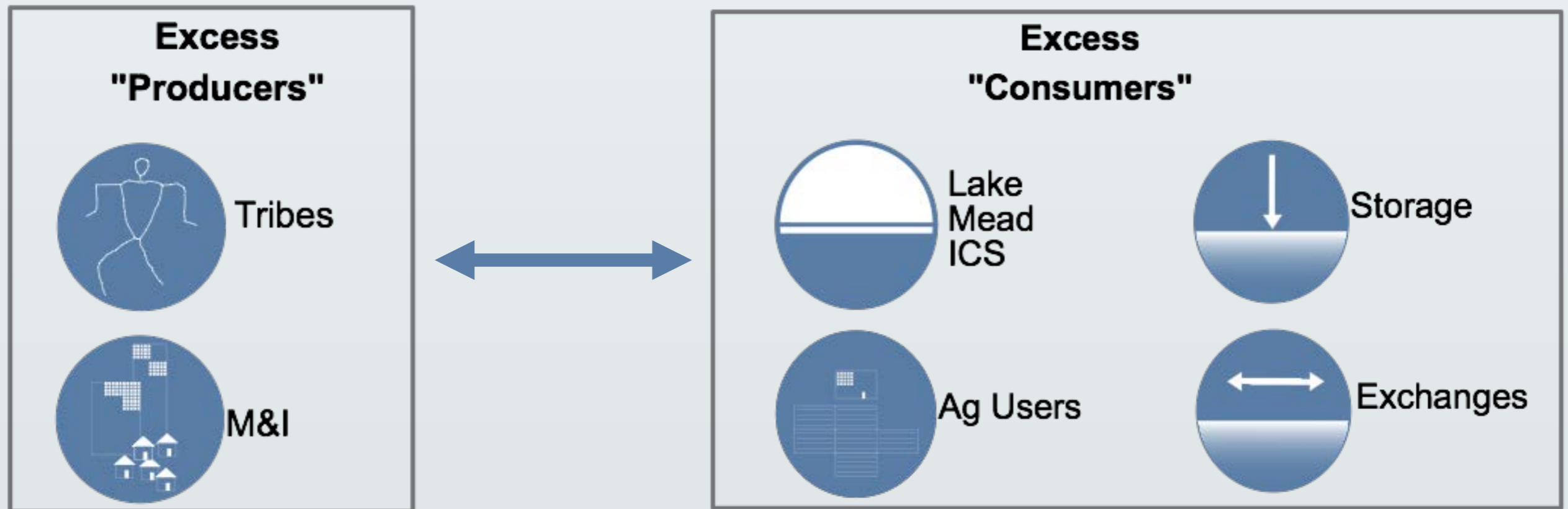




# “Share the Remaining Water”

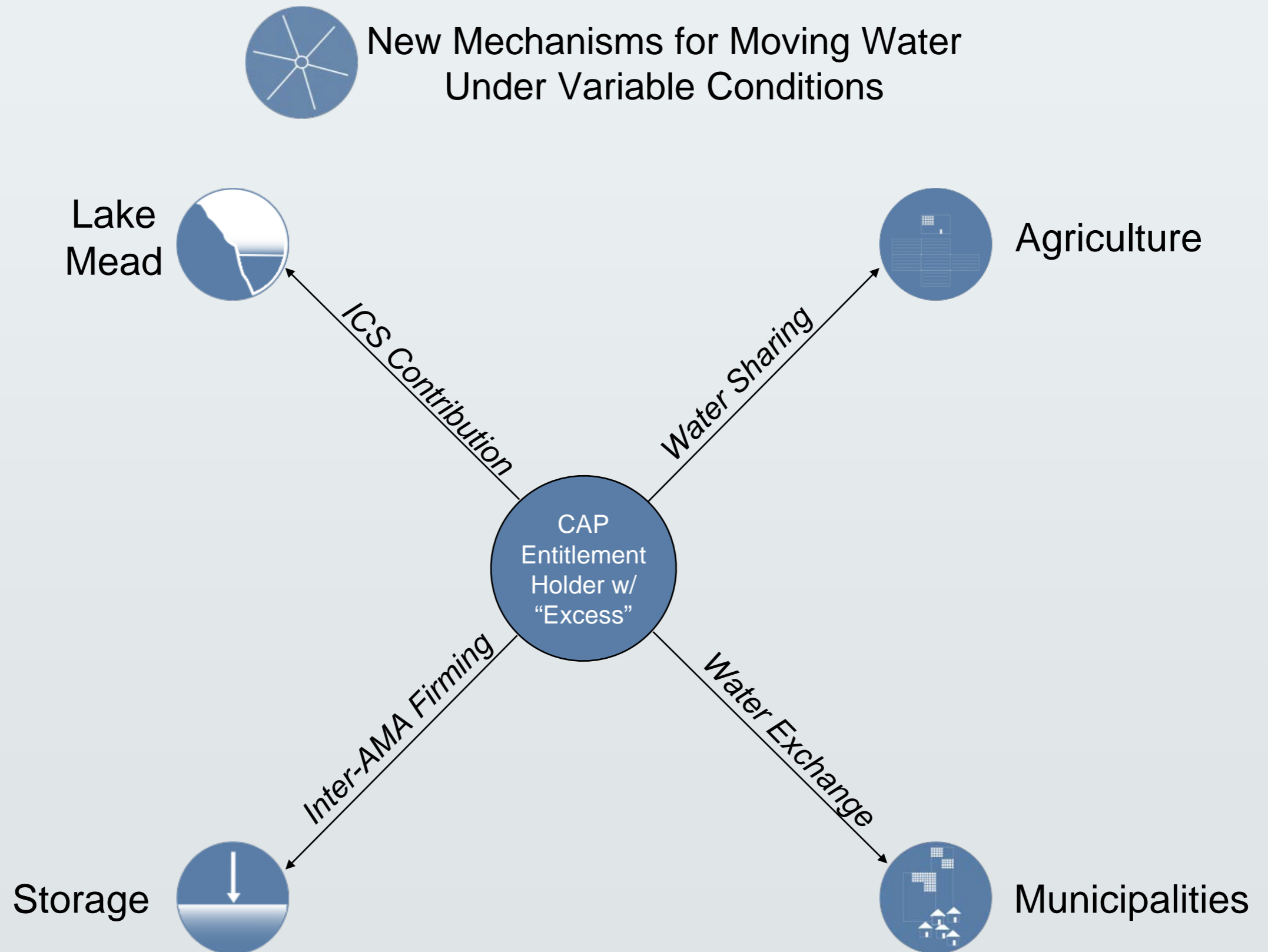


Increased Flexibility in Local Supplies



# “Share the Remaining Water”

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# Thank you

*"It's all a question of story. We are in trouble just now because we do not have a good story. We are in between stories. The old story, the account of how the system came to be and how we fit into it, is no longer effective. Yet we have not learned the new story."*

*~ Thomas Berry ~*