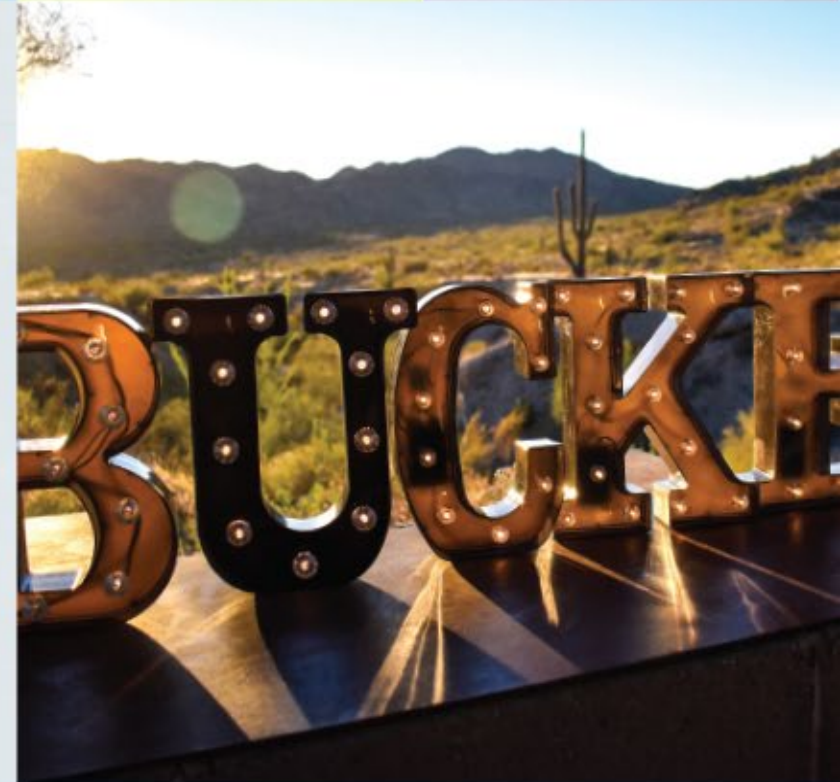


Drought Management Plan Update

Alisha Solano, Water Resources Director

June 7, 2022





- State Mandated Drought Management Plan Adopted 2005
- Changes to Portfolio

History

Drought Management Plan Purpose

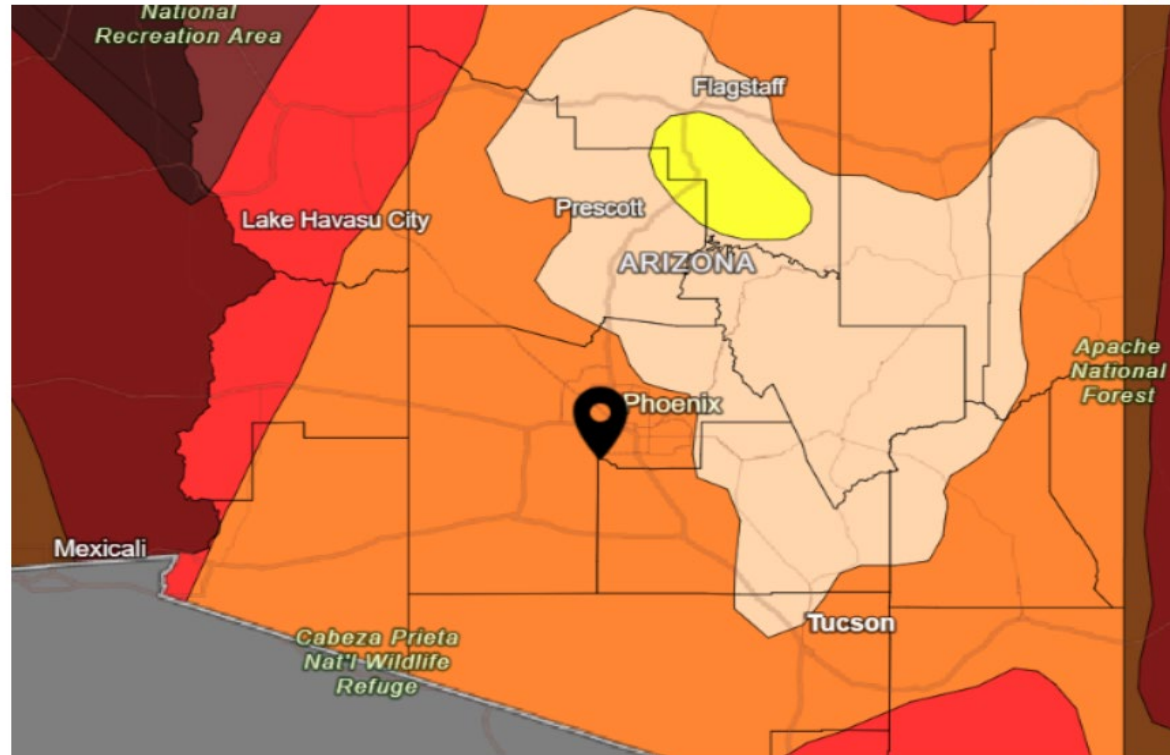
- Required Criteria:
 - Define conditions of an emergency
 - Specify actions to take
- City's Goals
 - Preserve essential public services
 - Minimize adverse impacts to the water supply
 - Maintain public health and safety
 - Maintain economic stability

Why Now?



Arizona Drought Conditions

U.S. Drought Monitor



U.S. Drought Monitor for Maricopa County



Source(s): NDMC, NOAA, USDA
Updates Weekly - 05/31/22

[Drought.gov](https://www.drought.gov)

AZ is currently in a Tier 1 Water Shortage

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ENVIRONMENT

Will Colorado River shortages limit water use? Arizona cities seek 'culture change' first

Brandon Loomis
Arizona Republic

Published 3:00 p.m. MT May 4, 2022

FEATURE

The unprecedented water crisis of the American Southwest

A prolonged drought has sapped the once-vigorous Colorado River, threatening the water supply of millions

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f t e

Tier 1 water shortage impacts Arizona agriculture

2022 water restrictions will come from CAP supply



Colorado Tier 2 Shortage



- Impact to some central Arizona municipalities and tribes
- Buckeye's reliance on CAP limited
- Reduction in NIA water
- August 2022 review

Impacts to the City of Buckeye

River shortages cause other agencies to pump more ground water

- Depletes the aquifer
- Creates fissures



Photo found online at Bjdrilling.com, 2022

Water Grant Opportunities

- Billions Available for Infrastructure
 - WaterSMART
 - Water Resiliency
 - Infrastructure Improvement Act



Updates to the Drought Management Plan

- Functionality, appearance, and consistency
- Added new and existing water supplies
 - NIA – water 2,786 AFY
 - CAP 237 AFY
 - Reclaimed Water

Drought Management Plan Levels

- Plan has 4 levels:
 - Level 1: Water Awareness
 - Reduce demand 5%
 - Focus on customer education and voluntary water reductions
 - Level 2: Water Restrictions
 - Reduce demand 10%
 - Vehicle washing is reduced, no ornamental fountains using potable water, odd/even water days



Drought Management Plan Levels

- Level 3: Water Reductions

- Reduce demand 20%
- Vehicles only washed for safety, cannot refill swimming pools spas, etc., landscape irrigation down to once a week

- Level 4: Water Curtailments

- Reduce demand 40%
- Potable water may not be used for construction, dust control, or street sweeping, only landscaping using non-potable water can be irrigated



Criteria

- City Manager may declare or rescind Drought Management Plan
 - Level 1:
 - Water demand = water production
 - Level 2:
 - Water demand > water production for 3 consecutive days

Criteria

- Level 3:
 - Water demand > water production for 2 consecutive weeks
- Level 4:
 - Water curtailments when any of the following conditions occur:
 - (1) water demand > production by 30% for 2 consecutive days or
 - (2) water reduction steps in level 3 are insufficient to reduce water demands or
 - (3) catastrophic water supply failure

Where is Buckeye?

- Water demand < water produced
 - System is constantly monitored
 - Able to move water throughout the system
 - Current standards have built in redundancy
- Daily balance



What are others doing?

- Implemented Level One of Drought Management Plan:
 - Scottsdale (August 2021)
 - Mesa & Tucson (May 2022)
 - Tempe & Phoenix (June 2022)
- Discussions ongoing for movement into level one across the valley

Recommendation

- Water Resources recommends Council approve the City of Buckeye Water Resources Drought Management Plan Update

Questions?

Enforcement

- Consistent with 17-5 Water Uses, Restrictions and Conservation
 - Section 17-5-28 – Violations and Penalties
 - Except as otherwise provided in this chapter, any person found in violation of any provision of [Article 17-5](#) shall first be issued a notice of violation and provided 30 days in which to correct the violation. If the violation is not corrected within the 30-day period, the violation shall be a civil offense and subject to civil penalties as a first offense in an amount of \$150.00. A second or subsequent violation of any provision of [Article 17-5](#) within an 18-month period shall be a civil offense and subject to civil penalties in an amount of \$300.00, and \$500.00 for a third and subsequent offense.
 - (Ord. No. [10-21](#), § 5, 12-7-2021)