
CAP
CENTRAL ARIZONA PROJECT

# Central Arizona Project

- Historical Information
  - Authorized by 1968 Basin Project Act
  - Substantially completed in 1993
  - Responsible for repaying reimbursable costs to the U.S.

- Physical Characteristics
  - 336 mile aqueduct
  - 15 pumping plants
  - Lake Pleasant (system storage/release)
  - Primarily powered through Navajo Generating Station (NGS)
  - Diverts remainder of Arizona's Colorado River Apportionment

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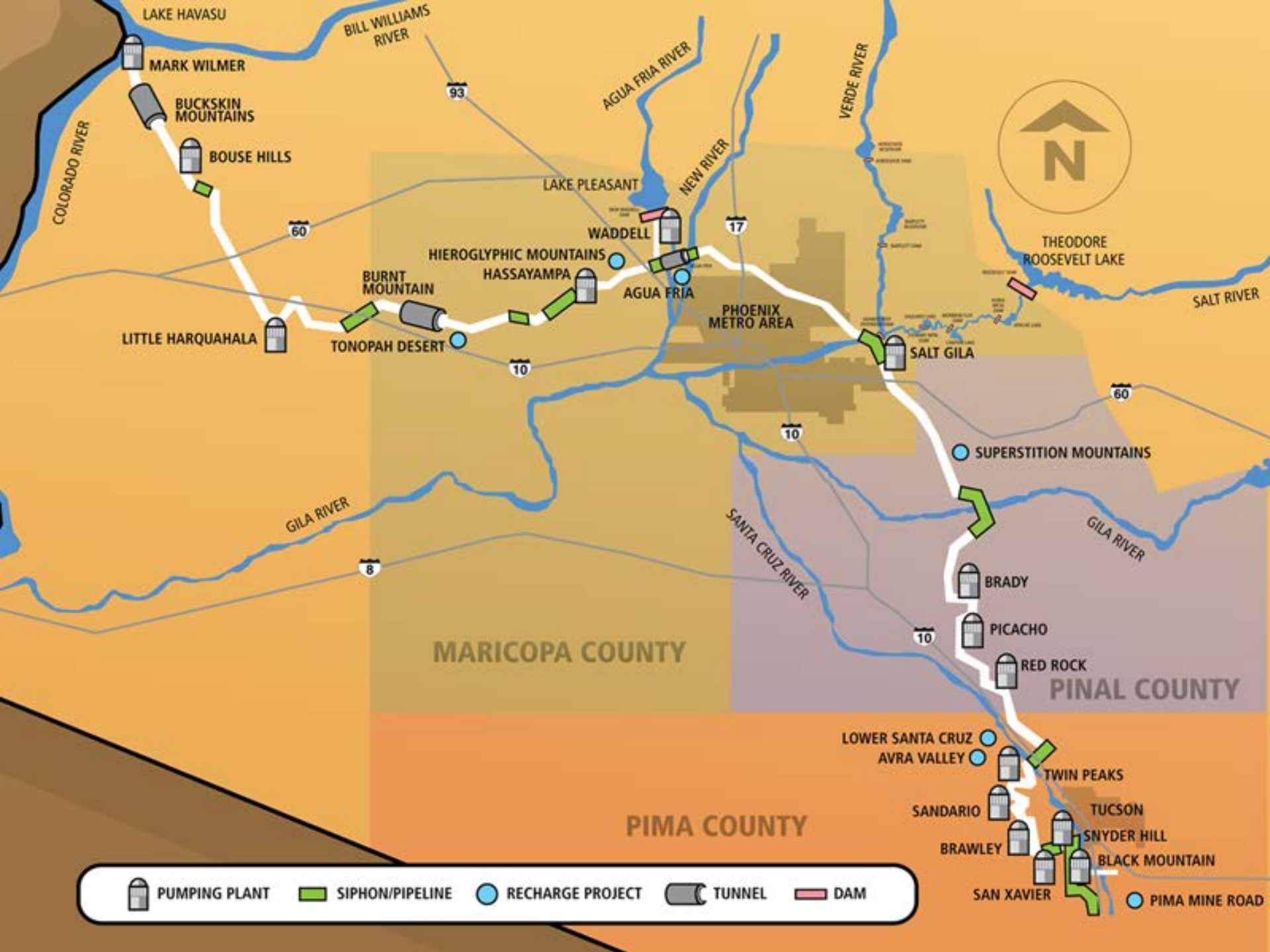

LAKE HAVASU
BILL WILLIAMS RIVER
MARK WILMER
BUCKSKIN MOUNTAINS
BOUSE HILLS
COLORADO RIVER
93
AGUA FRIA RIVER
VERDE RIVER
N
LAKE PLEASANT
NEW RIVER
WADDELL
17
THEODORE ROOSEVELT LAKE
60
HIEROGLYPHIC MOUNTAINS
HASSAYAMPA
BURNT MOUNTAIN
AGUA FRIA
PHOENIX METRO AREA
SALT RIVER
LITTLE HARQUAHALA
TONOPAH DESERT
10
SALT GILA
60
10
SUPERSTITION MOUNTAINS
GILA RIVER
SANTA CRUZ RIVER
GILA RIVER
8
BRADY
PICACHO
10
RED ROCK
MARICOPA COUNTY
PINAL COUNTY
LOWER SANTA CRUZ
AVRA VALLEY
TWIN PEAKS
SANDARIO
TUCSON
SNYDER HILL
BRAWLEY
BLACK MOUNTAIN
SAN XAVIER
PIMA MINE ROAD
PIMA COUNTY
PUMPING PLANT
SIPHON/PIPELINE
RECHARGE PROJECT
TUNNEL
DAM

# Colorado River Allocations

**Upper Basin – 7.5 MAF**

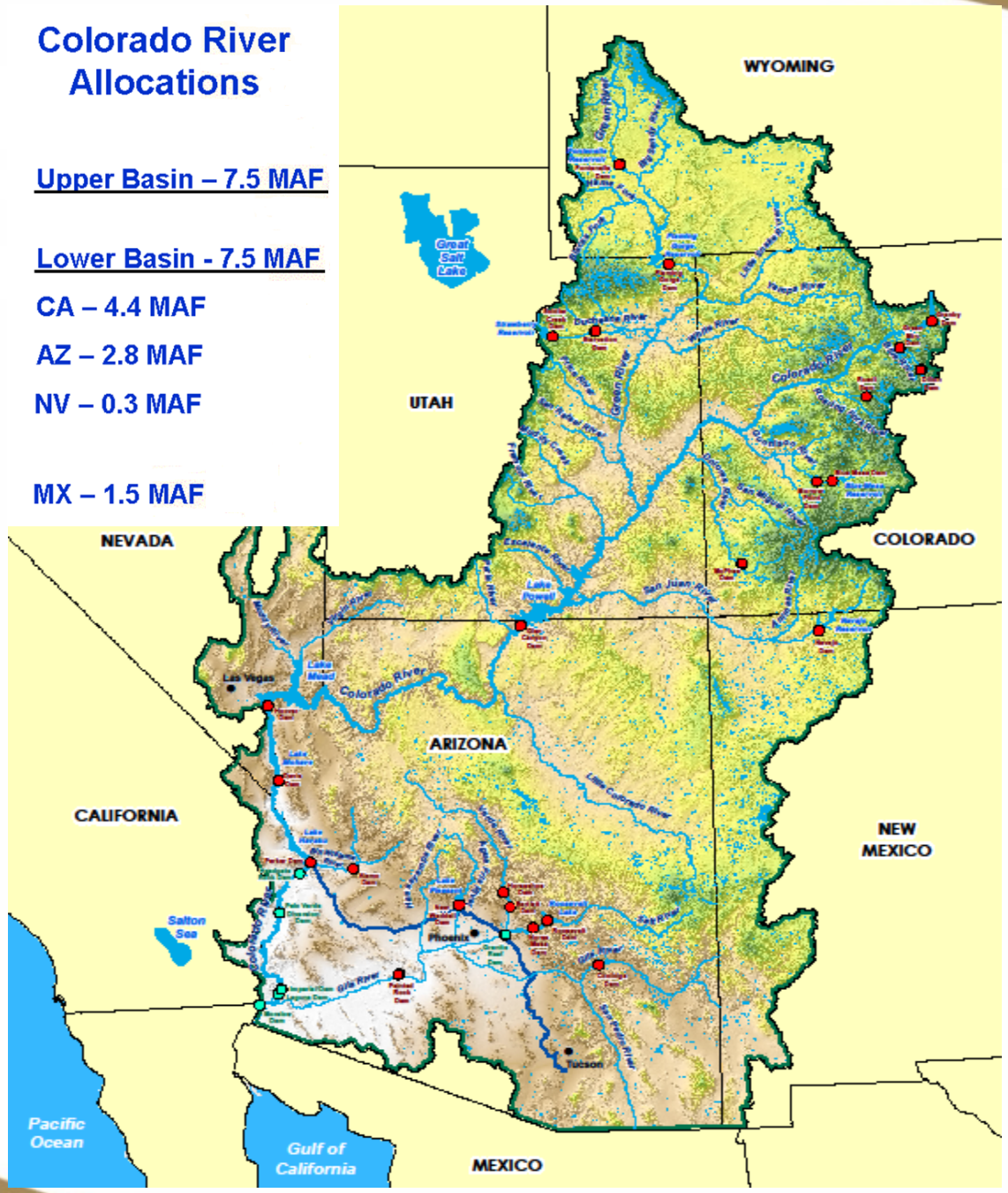
**Lower Basin - 7.5 MAF**

CA – 4.4 MAF

AZ – 2.8 MAF

NV – 0.3 MAF

MX – 1.5 MAF

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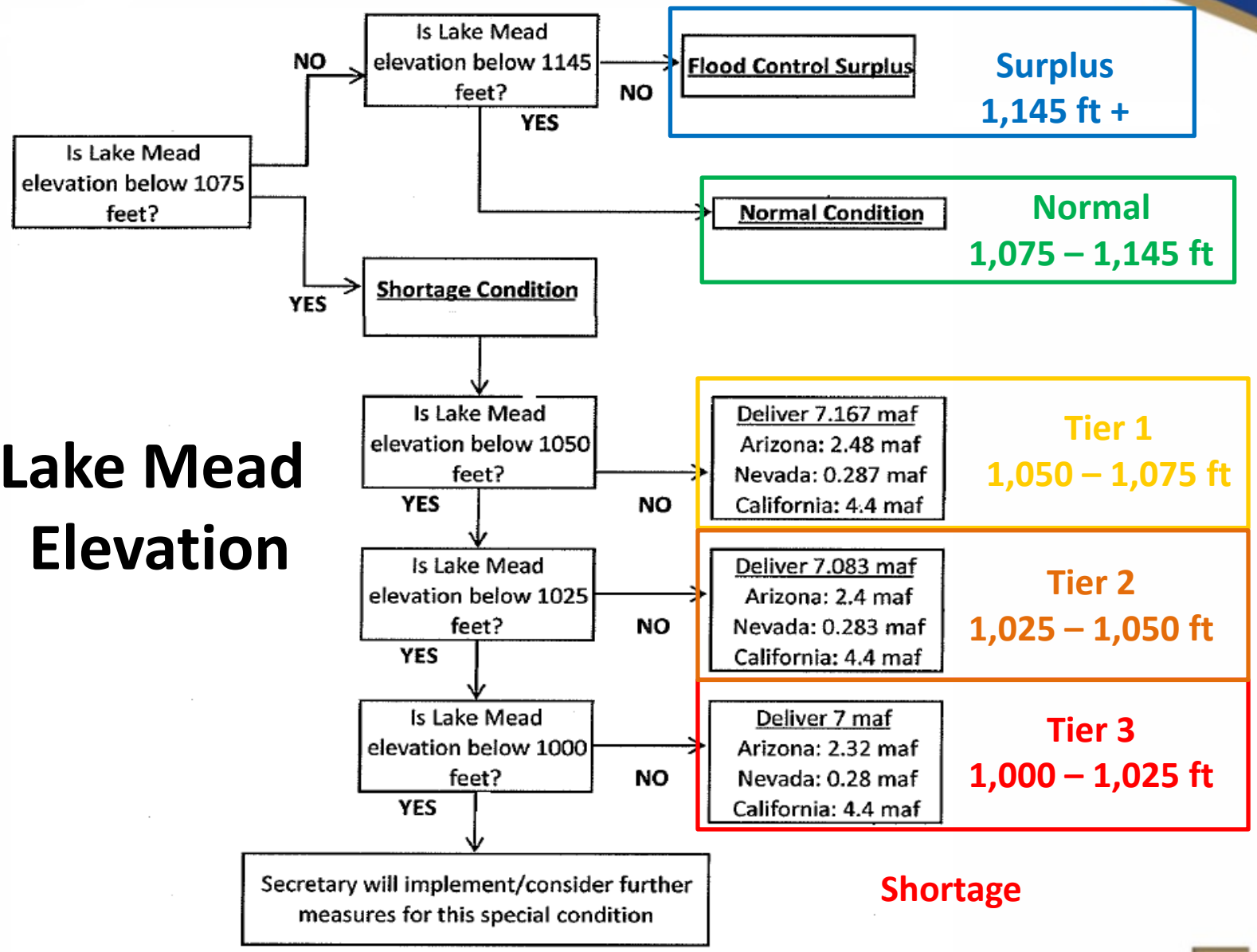
# Lake Mead Elevation

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# Arizona Priorities for Colorado River Water

| Priority Tier | Type of Contracts | Major Users |
|---|---|---|
| P1 | Present Perfected Rights | CRIT, YCWUA |
| P2/P3 | Equal Priority Contracts | YMIDD, WMIDD |
| P4 | Post-1968 Contracts | MVIDD, CAP |
| P5/P6 | Unused/Surplus Water | APS, MCWA |

# CAP Service Area Priorities

| Priority Tier | Type of Use | Major Users |
|---|---|---|
| 1 | On-River P3 | Indian Ag, PHX-Metro Cities |
| 2 | CAP M&I and Indian | Indian Ag, Tucson/PHX-Metro Cities |
| 3 | CAP NIA | Irrigation, PHX-Metro Cities |
| 4 | Excess | Irrigation, Water Storage |

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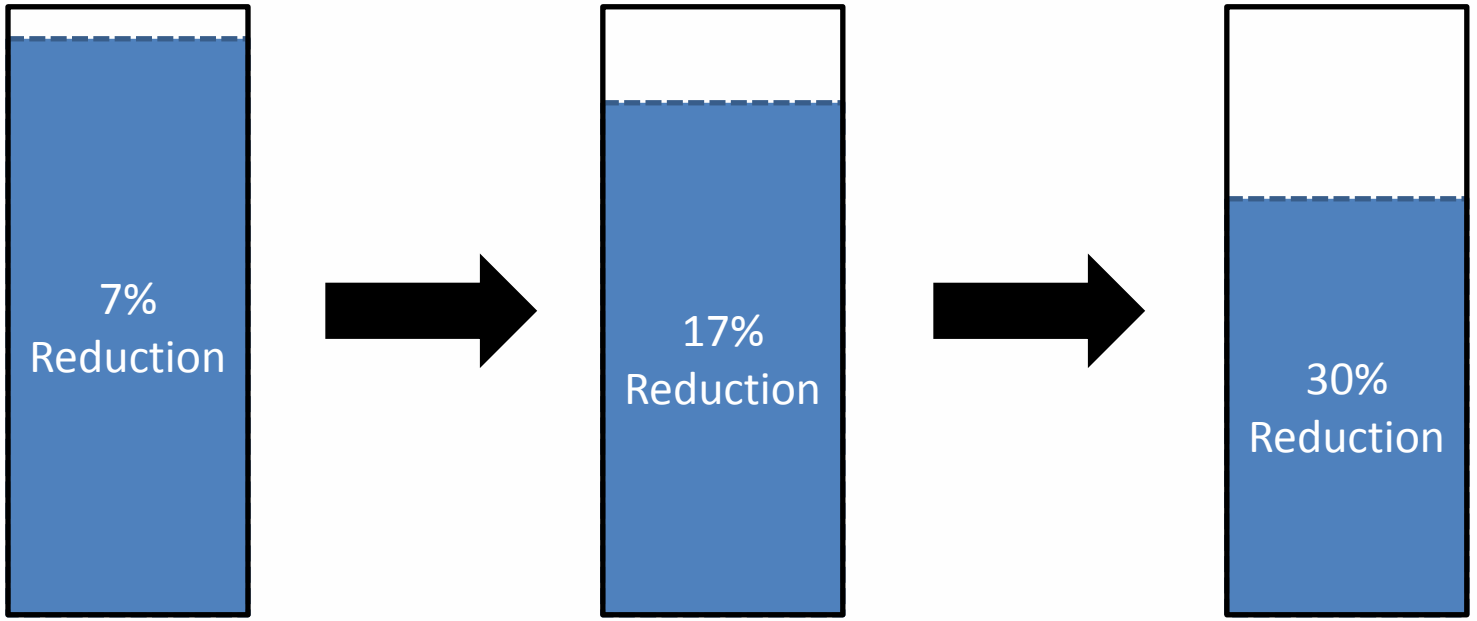
# Impact of Water Shortage due to Climate Change

To put it in perspective…




Under current water use, a reduction of 7% in Colorado River water supply in the Lower Basin results in a reduction of 30% for water available to Central Arizona (CAP)

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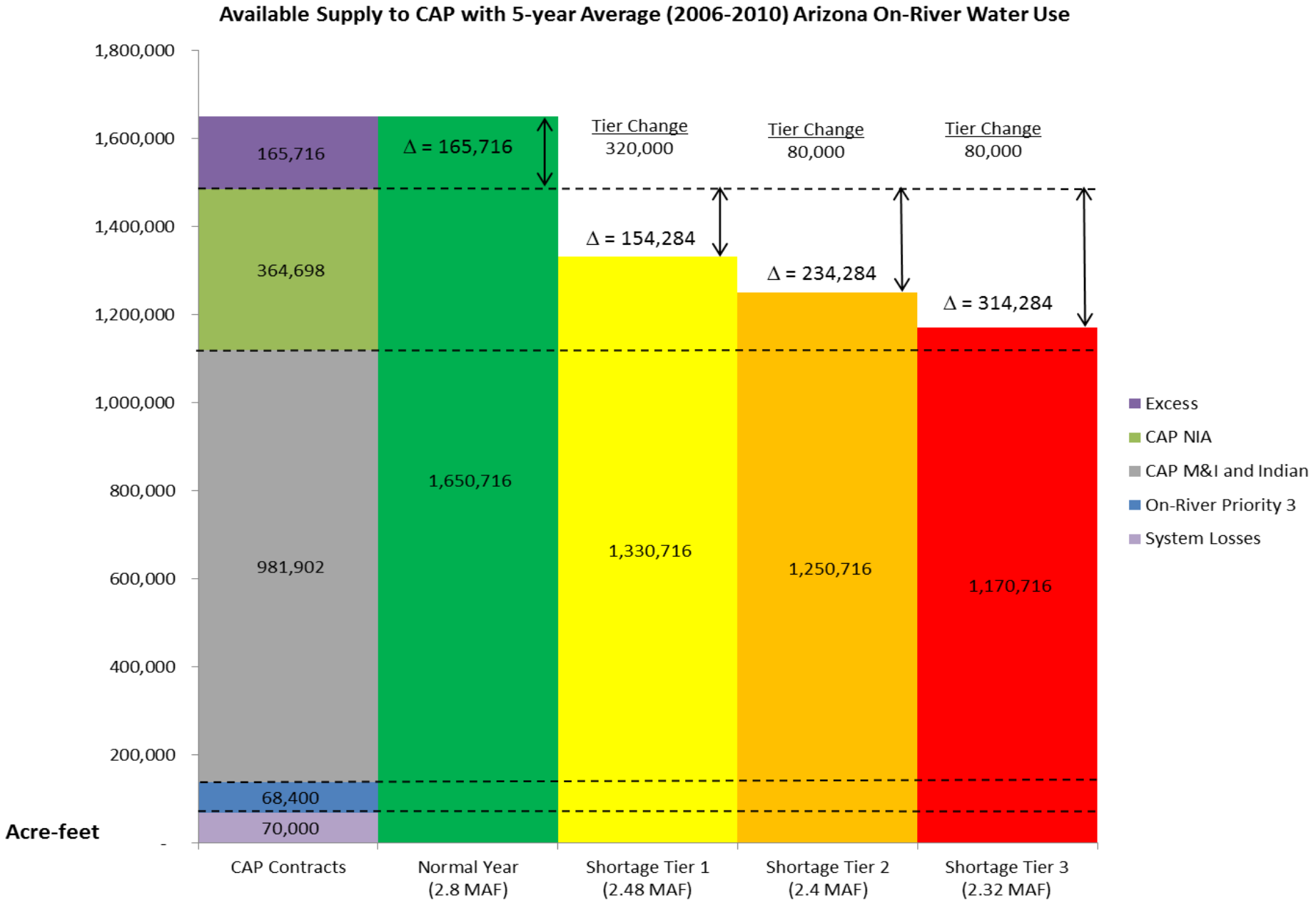
# Impact to CAP Service Area



# Preparing for Climate Change

## Planning

- Research Activities
  - Climate Change
- Feasibility Studies
  - Basin Study
- Water Consv. Technology
  - Desal, Ag, M&I


## Adaptation

- Augmentation
  - Weather Modification
  - Desalination
- Conservation
  - Brock Reservoir
  - Minute 319 (Binational Agreement)
  - Vegetation Management
- Storage
  - Arizona Water Banking
  - Recharge Projects

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