Imported Water Committee

Update on WSDM and Status of Emergency Water Conservation Program

Item 6a

September 12, 2022

WSDM Update

WSDM Supply Demand Balance

Recent Weather Conditions

Flash flooding washes out part of Interstate 10 in Riverside County as wild weather continues

Credit: Los Angeles Times

Even higher temps expected on Labor Day as SoCal heat wave sets records

Credit: Los Angeles Times

WSDM Supply Demand Balance

Regional View

Million Acre-Feet (y-axis: 0.0, 0.5, 1.0, 1.5, 2.0)

483 TAF Supply/Demand Gap

Includes: 134 TAF of HH&S Supply

Reflects: -63 TAF of Higher Priority Water Use Adjustment

SWP Supply

Colorado River Supply

1.71 MAF Current Demand Forecast on Metropolitan

1.22 MAF Current Supply Estimate

WSDM Supply Demand Balance

Regional View

Million Acre-Feet

- 2.0
- 1.5
- 1.0
- 0.5
- 0.0

483 TAF Supply/Demand Gap

Storage

Includes: 134 TAF of HH&S Supply

SWP Supply

Reflects: -63 TAF of Higher Priority Water Use Adjustment

Colorado River Supply

1.71 MAF Current Demand Forecast on Metropolitan

1.22 MAF Current Supply Estimate

Additional Updates

Upper Feeder Shutdown

- Emergency shutdown began September 6th
  - Emergency repair to critical MWD infrastructure
  - Approximate duration of two weeks
- Shutdown increases use of SWP supplies
  - Affected member agencies are those who receive water from Weymouth
- Metropolitan called for a complete ban on outdoor watering for the affected member agencies
- DWR approved request for additional Human Health & Safety water to address Upper Feeder shutdown

Additional Updates

Colorado River

- USBR's August 24-month study released on August 16th
  - Study results determine operating conditions of the Colorado River for CY 2023
- USBR declared first-ever Level 2A shortage for CY 2023
  - Arizona, Nevada, and Mexico will be required to make DCP contributions next year
  - California will not be required to make such contributions

Emergency Water Conservation Program Update

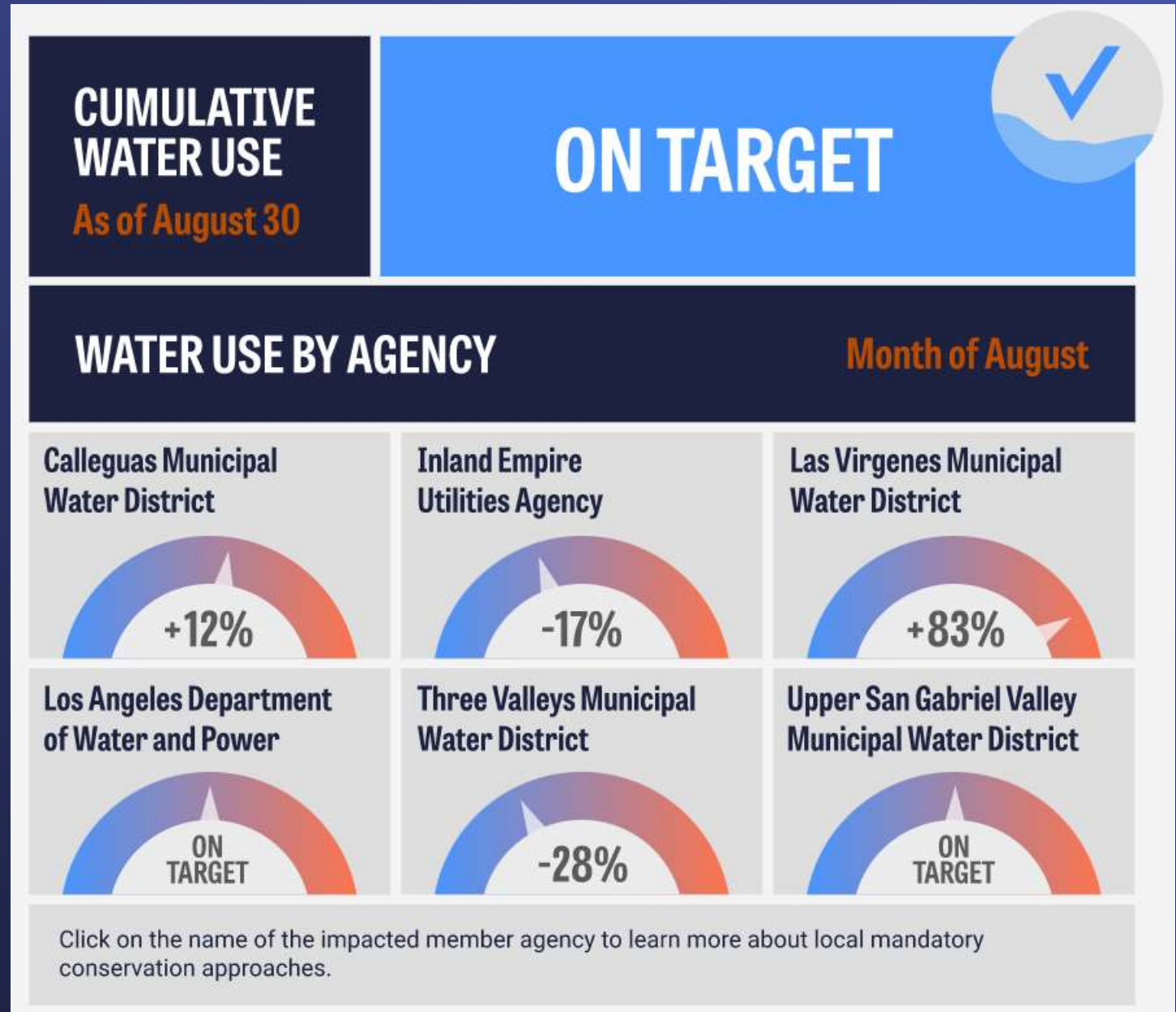# Emergency Water Conservation Program

August Update

- August Path Compliance

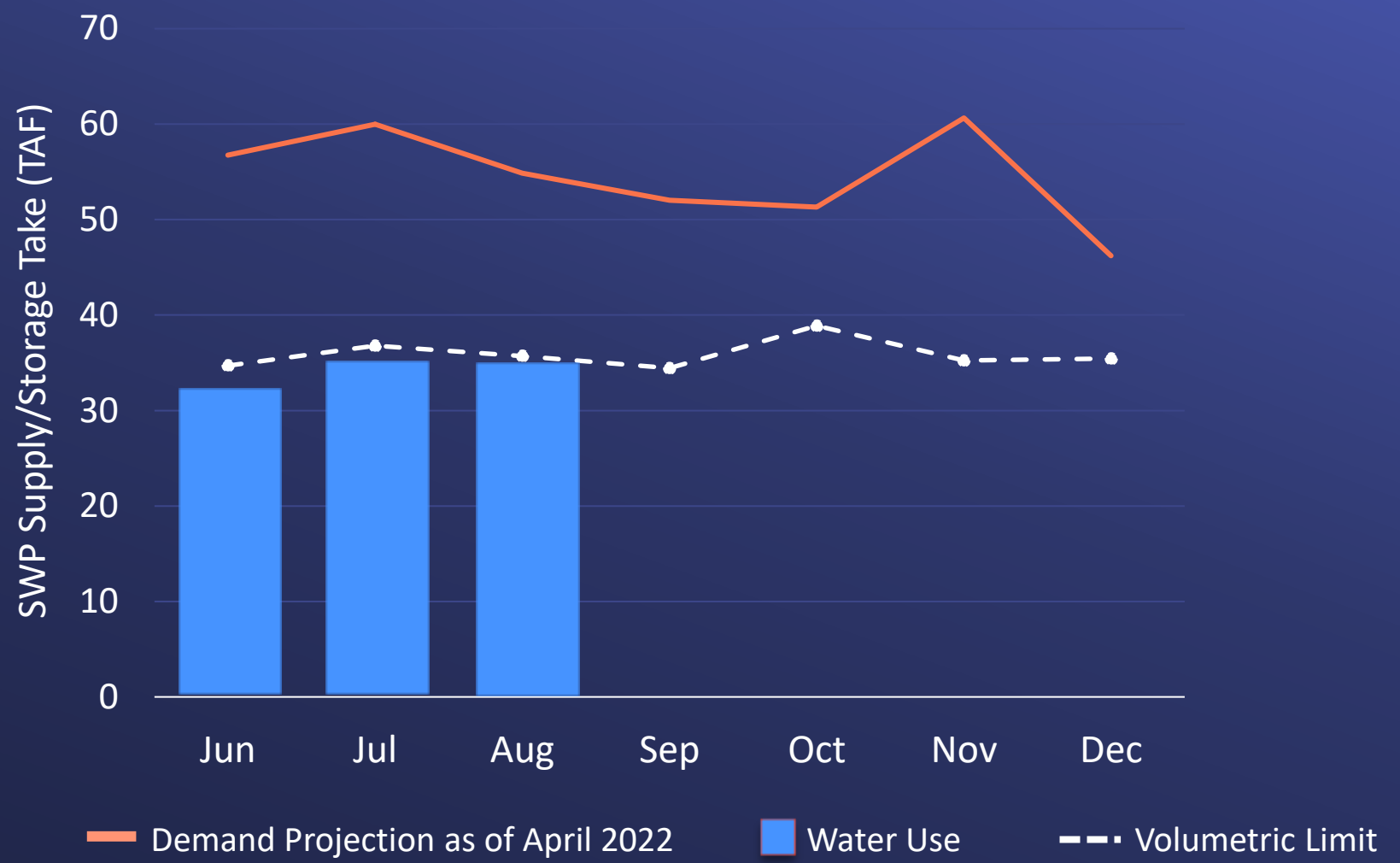| PATH 1	PATH 2
Las Virgenes MWD Three Valleys MWD Calleguas MWD*	City of Los Angeles Inland Empire Utilities Agency Upper San Gabriel Valley MWD

5 of 19 Calleguas water purveyors are Path 2

- No penalties issued for any Path 2 member agencies for the month of August

- Path 1 one-day-a-week watering continues through month of October

Emergency Water Conservation Program

External Tracking

CUMULATIVE WATER USE
As of August 30

ON TARGET ✓

WATER USE BY AGENCY — Month of August

Calleguas Municipal Water District: +12%

Inland Empire Utilities Agency: -17%

Las Virgenes Municipal Water District: +83%

Los Angeles Department of Water and Power: ON TARGET

Three Valleys Municipal Water District: -28%

Upper San Gabriel Valley Municipal Water District: ON TARGET

Click on the name of the impacted member agency to learn more about local mandatory conservation approaches.

Emergency Water Conservation Program

SWP Dependent Area Demands on Metropolitan

All SWP Dependent Agencies: June to December 2022
as of August 31

Performance	-3,257 AF	-3% under
Cumulative Use	103,940 AF	1,130 AF/day
Remaining Volumetric Limit	147,250 AF	1,207 AF/day

Total 2022 Projected Demand: **381,758 AF**

Total 2022 Volumetric Limit: **251,190 AF**

Cumulative Acre-Feet

Projected Demand   Cumulative Daily Deliveries   ⋯⋯ Guidance Line
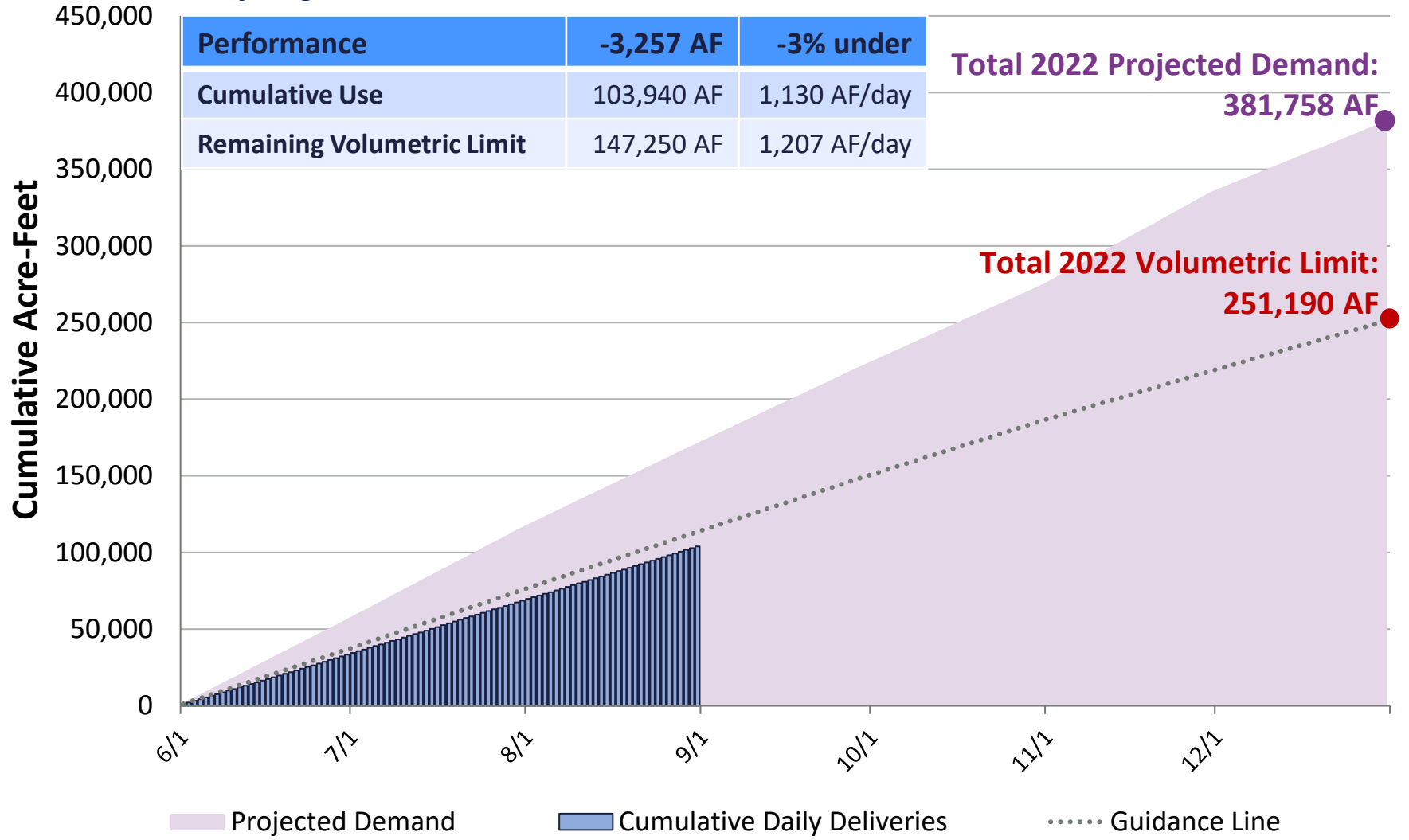
*Demand projection as of April 26, 2022

All SWP Dependent Agencies Weekly Water Use Tracking

June to December 2022
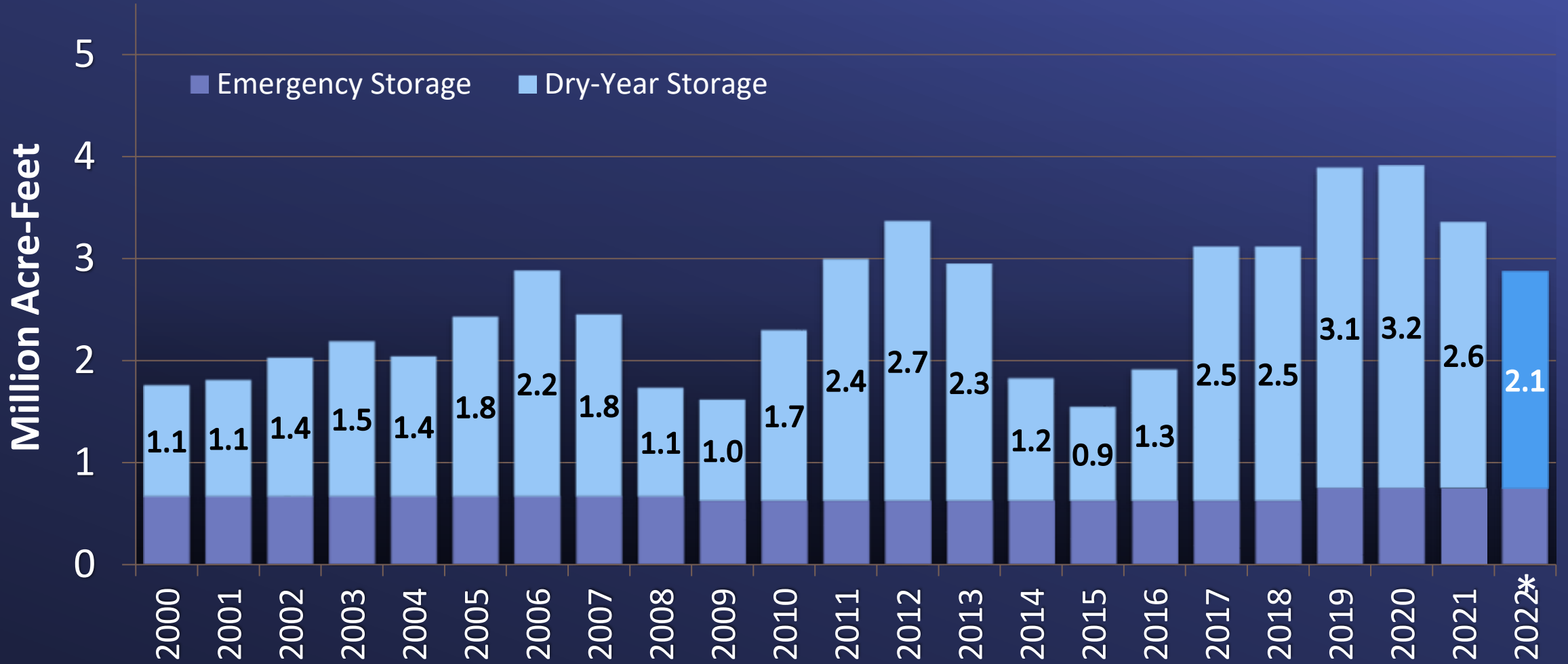
Timeline of Activity and Key Decision Points

Weekly Tracking Update

(Water use will be tracked for all affected agencies against their volumetric limit regardless of path selection)

JUN	JUL	AUG	SEP	OCT	NOV	DEC

Commencement of Emergency Conservation Water Program

Begin zero-day outdoor watering *(if needed)*

Begin Volumetric Limit for all *(if needed)*
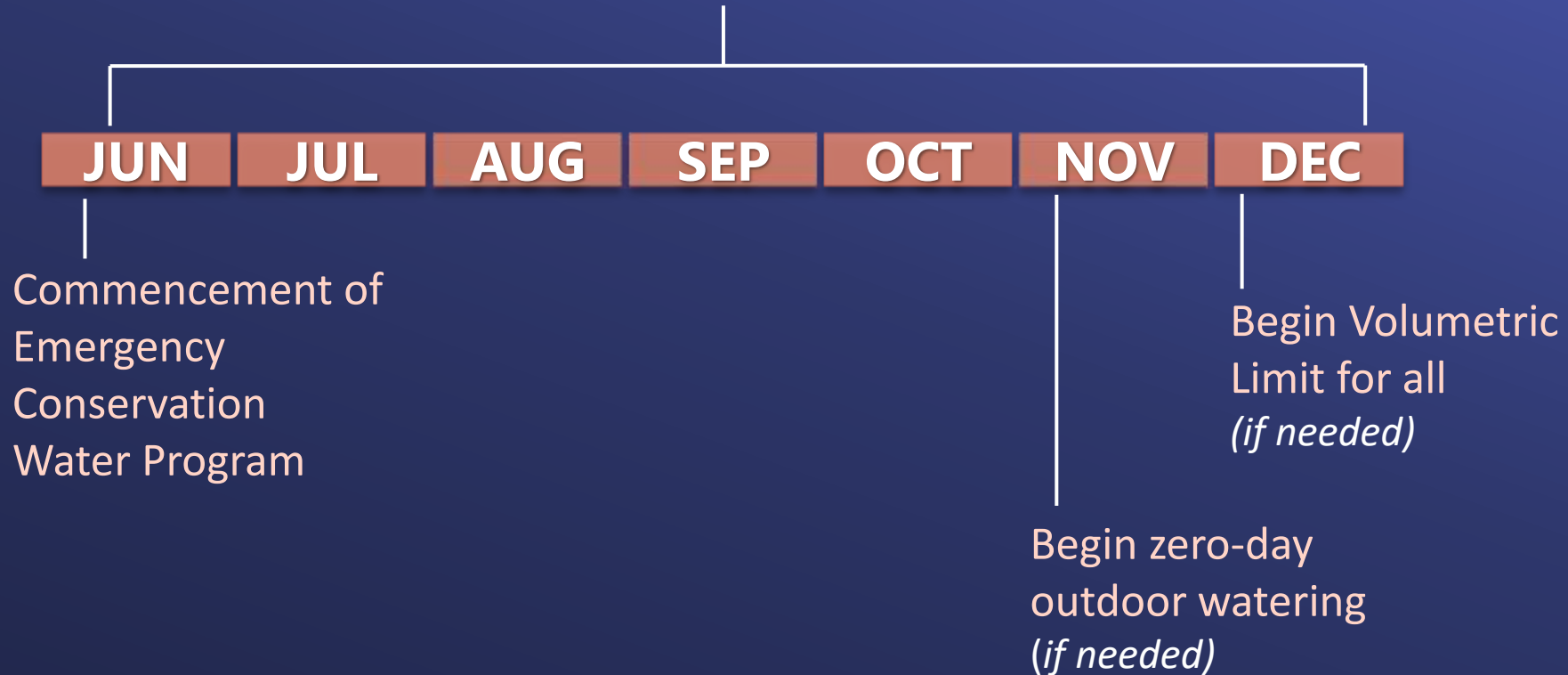
Planning for Calendar Year 2023

2022 Storage Projected to be 2.1 MAF
End of Year Balances
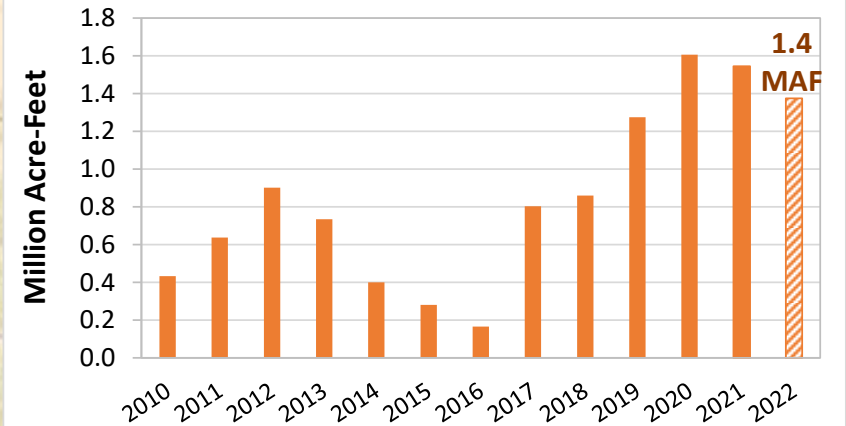
Million Acre-Feet

Legend: ■ Emergency Storage ■ Dry-Year Storage

Year	Value
2000	1.1
2001	1.1
2002	1.4
2003	1.5
2004	1.4
2005	1.8
2006	2.2
2007	1.8
2008	1.1
2009	1.0
2010	1.7
2011	2.4
2012	2.7
2013	2.3
2014	1.2
2015	0.9
2016	1.3
2017	2.5
2018	2.5
2019	3.1
2020	3.2
2021	2.6
2022*	2.1

Estimate – May change based on supply/demand conditions

End of Year Storage by Region

SWP End-of-CY Storage Level
Million Acre-Feet
0.46 MAF

CR End-of-CY Storage Level
Million Acre-Feet
1.4 MAF

In-Region End-of-CY Storage Level
Million Acre-Feet
0.29 MAF

SWP Carryover (surface water)

SWP Banking (groundwater)

Flex Storage (surface water)

Lake Mead (surface water)

DWCV (groundwater)

DVL, Lake Mathews, Lake Skinner, CUP (ground and surface water)

NV

UT
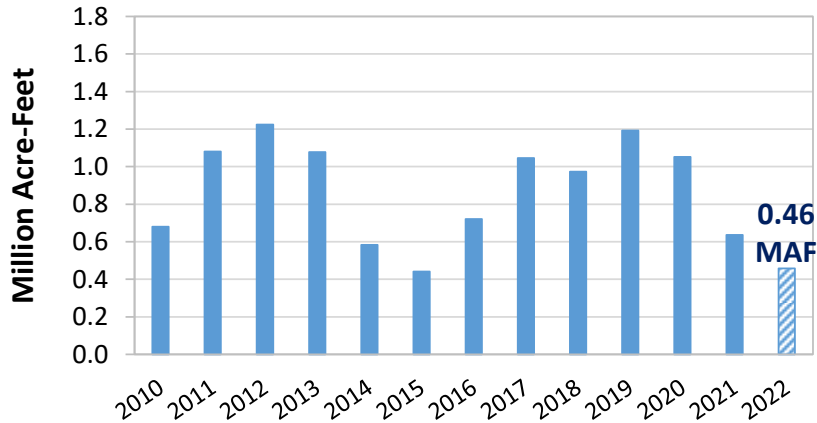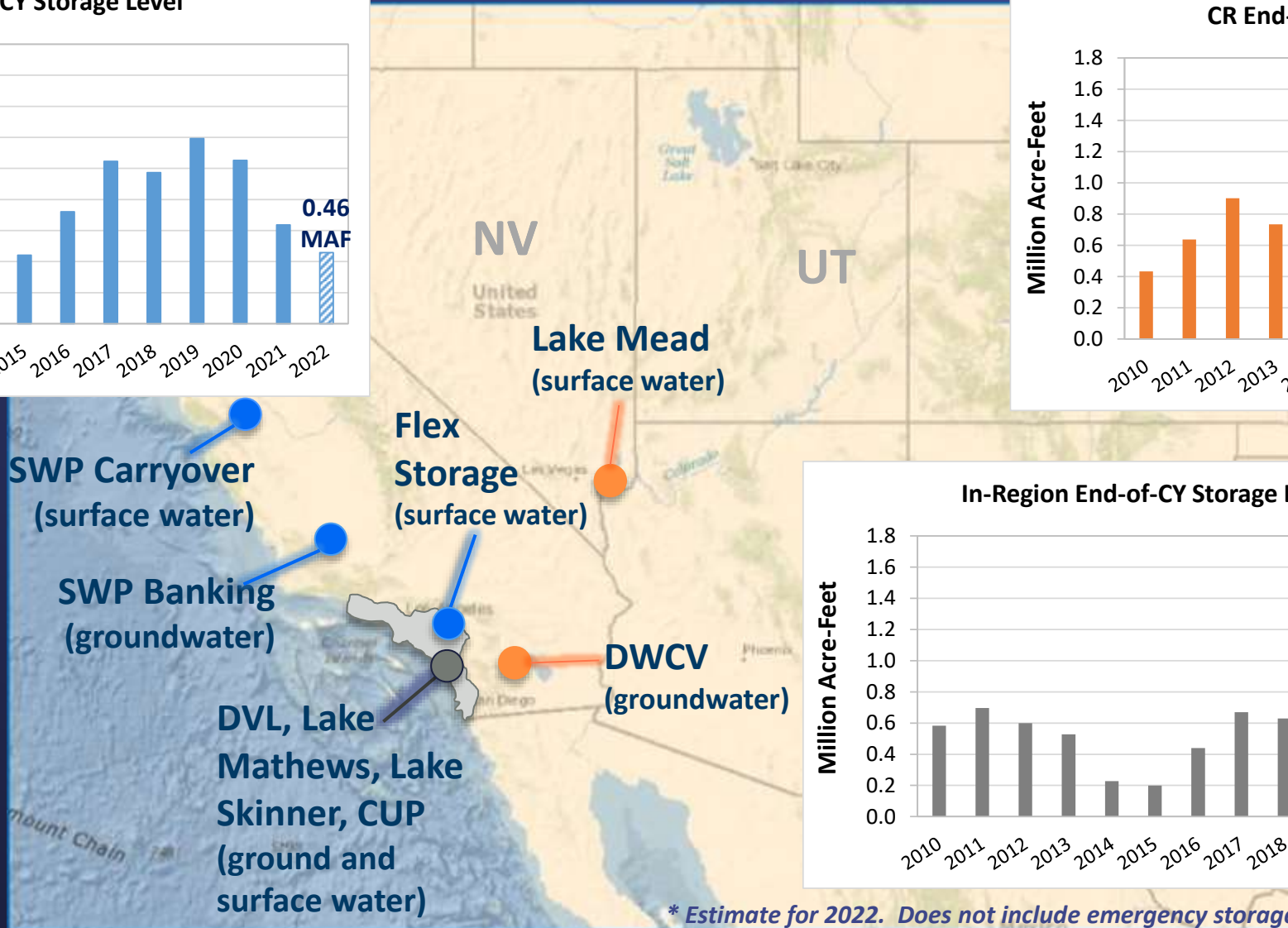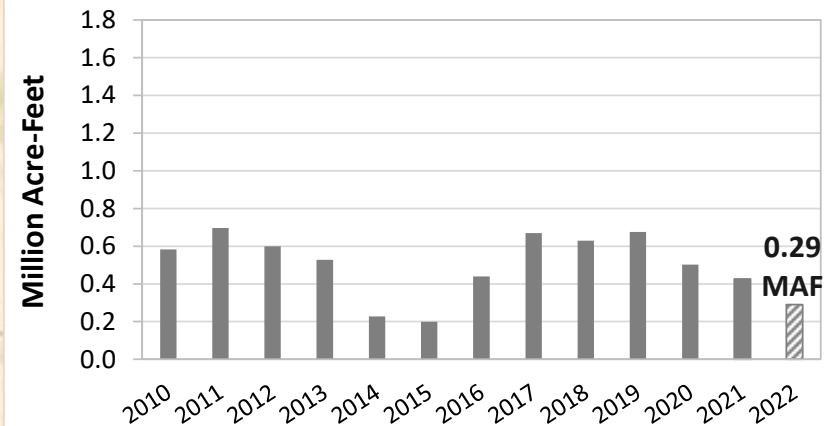
Estimate for 2022. Does not include emergency storage.

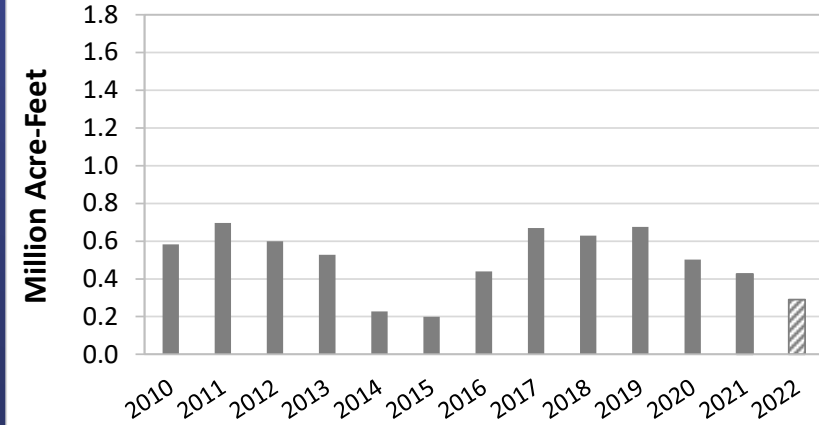# Not All Storage Available for MWD's Demands

CR End-of-CY Storage Level (Million Acre-Feet, 2010–2022)

SWP End-of-CY Storage Level (Million Acre-Feet, 2010–2022)

In-Region End-of-CY Storage Level (Million Acre-Feet, 2010–2022)
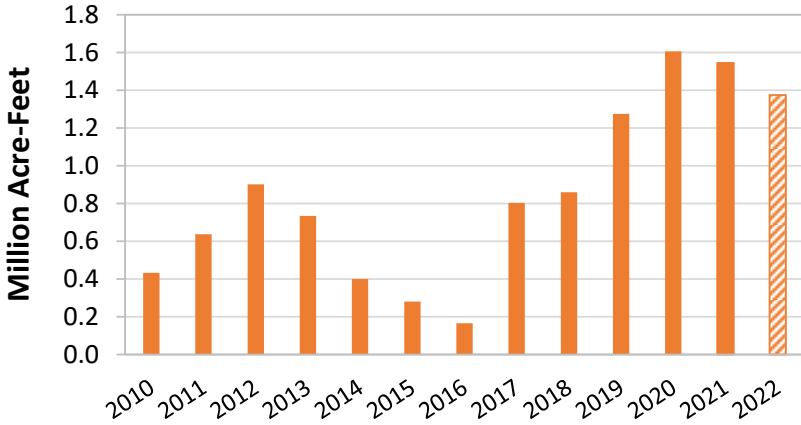
2023 CR Max Take Capacity: ~410 TAF
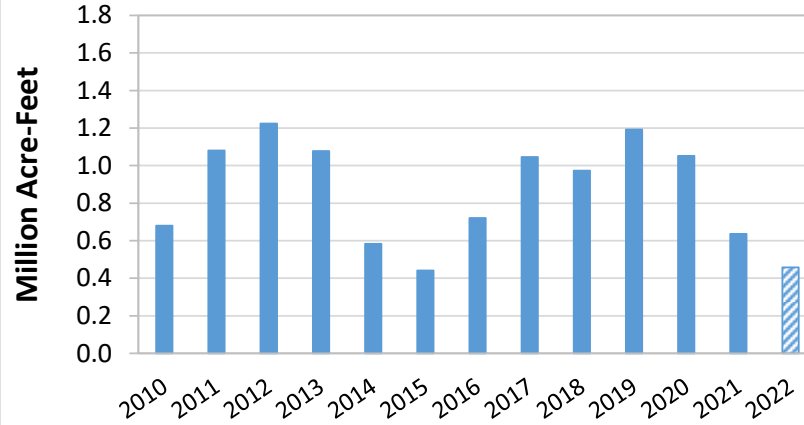
2023 SWP Max Take Capacity: ~86 TAF

2023 In-Region Max Take Capacity: ~290 TAF

- Lake Mead storage needed to satisfy future DCP contributions and obligations

- Low SWP and in-region storage levels have prompted necessary discussions on regionwide allocations for 2023

* Take capacity estimates assume 5% 2023 SWP allocation. CR and in-region capacities are subject to reductions due to operational constraints.

Next Steps

- Continue to evaluate EWCP path compliance and potential penalties

- Continue transmittal of weekly EWCP reports
  - EWCP weekly report reflecting data from June 1 – September 13 tentatively scheduled for transmittal on September 14, 2022

- Ongoing coordination
  - 2023 EWCP parameters and potential regionwide allocation
  - Other system limitations impacts