



Update on Water Surplus and Drought Management

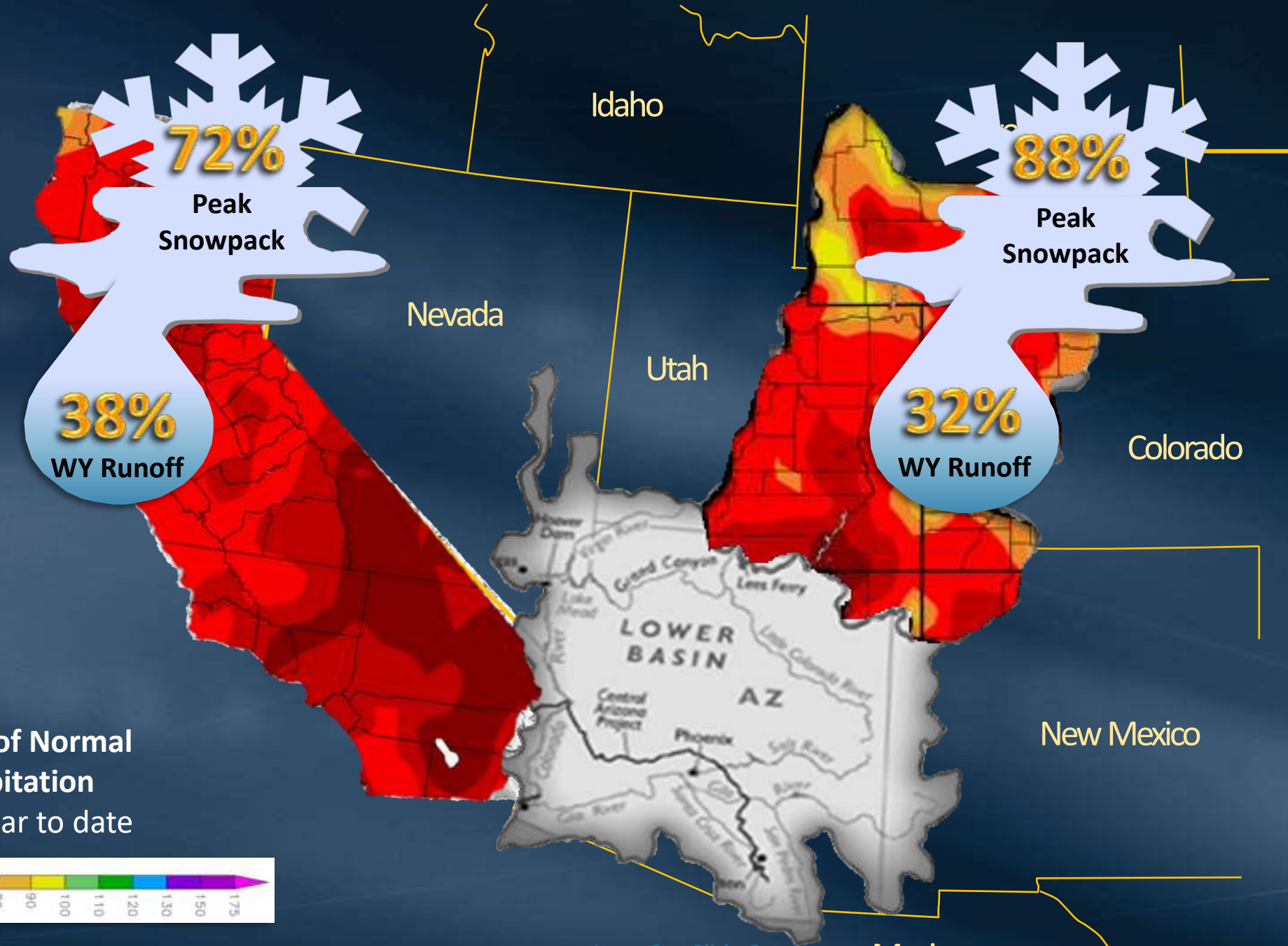
Water Planning and Stewardship Committee

Item 6a

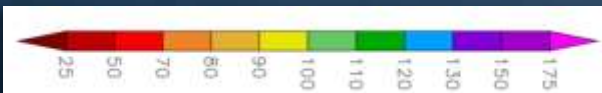
August 16, 2021

Outline

- Water Supply Conditions and Outlook
- State Actions in Response to Drought
- Supply/Demand Balances
- Water Surplus & Drought Management Actions



Percent of Normal
Precipitation
Water Year to date



Consecutive dry years taking its toll on imported water supply systems

- Snowpack in both imported water supply watersheds did not produce expected runoff
 - SWP allocation decreased from 10% to 5%
 - Colorado River Basin has been in a drought since 2000
- Second lowest runoff projected in the Upper Colorado River Basin
- Fourth lowest runoff projected for Northern Sierra



Lake Oroville storage drops to a record low on August 1



April 2021



July 2021



August 2021: Hyatt Power Plant Intake Structure – Lake Oroville

Lake Mead storage continues to drop to historic low levels



Bleak outlook for both imported water supplies

- Anticipating a zero percent initial 2022 SWP Allocation
 - Oroville storage may end the year at record low levels
 - Roughly even chance of receiving 20 percent or greater SWP Allocation for 2022
- Shortage declaration imminent for Lower Colorado River Basin
 - Reclamation's 24-Month Study continues to show Lake Mead and Lake Powell at historically low elevations and dropping
 - Shortage would go into effect in 2022

Statewide drought actions

- Currently 50 counties in drought emergency
 - Does not include the six counties in MWD service area
- SWRCB taking actions to preserve water supply in Shasta and Lake Oroville and protect the delta from salt water intrusion
 - Temporary Urgency Change Petition
 - Salinity Barrier installation
 - Water Unavailability Notice for Delta watershed water right holders
- On July 8, Governor Newsom issued an Executive Order calling for all Californians to voluntarily reduce water use by 15 percent from 2020 levels





Governor's call for voluntary reduction: an opportunity to show SoCal is part of the solution

- Southern California reduced water use over three decades, and especially since the last drought
- Governor's call for voluntary reductions departs from a "one size fits all" solution
- Voluntary action taken now supports the Administration, helps preserve regional storage, and prevents need for more stringent measures later
- Southern California can take forward-looking actions to address the current drought and not solely rely on past investments

Many targeted actions to respond to potential historic dry conditions began in January

Jan 2021	Feb 2021	Mar 2021	Apr 2021
<p>Began releases from DVL to serve connections on the Lakeview Pipeline</p>  <p>Minimize operational flow of SWP to areas that can receive both SWP and CRW</p>	<p>Metropolitan began pump-back operations at Lake Perris to withdraw flexible storage to meet Mills demands</p> 	<p>Returns from Semitropic Storage Program and Kern Delta Storage Program began</p>	<p>Began operating CRA at full capacity for the first time since 2015</p>  <p>Board voted to explore purchasing transfers north of the Delta</p> <p>Bulkheads installed to allow deliveries from DVL to Mills Plant</p> <p>Eastern MWD began shifting deliveries, when possible</p>

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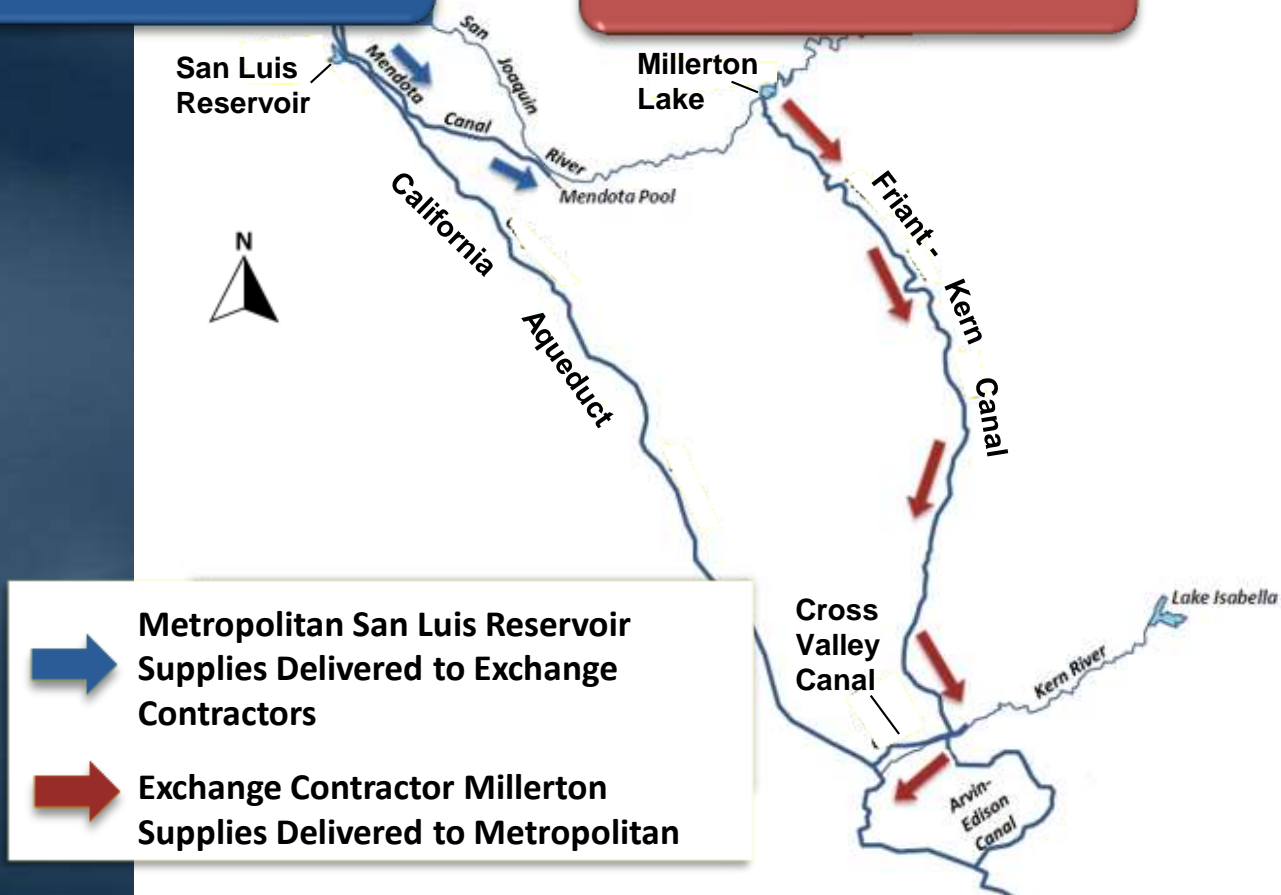
May 2021	Jun 2021	Jul 2021	Aug 2021
<p>Board approved new Operational Shift Cost Offset Program (OSCOP)</p>	<p>Greg Avenue pumping station tests completed and began operation</p>	<p>West Basin MWD began shifting demands</p>	<p>Began receiving exchange of surface water supplies from the Arvin-Edison Storage Program</p>
<p>Lakeview Pipeline improvements completed</p> 	 <p>Amended agreement with DWR to increase stated max flow rate for DVL to Mills Plant operation</p>	<p>LADWP began shift through OSCOP</p>	<p>Continue to discuss OSCOP potential with other member agencies</p>
<p>DVL to Mills Plant in operation for the first time in Metropolitan's history</p>			

Arvin-Edison Exchange/Recovery

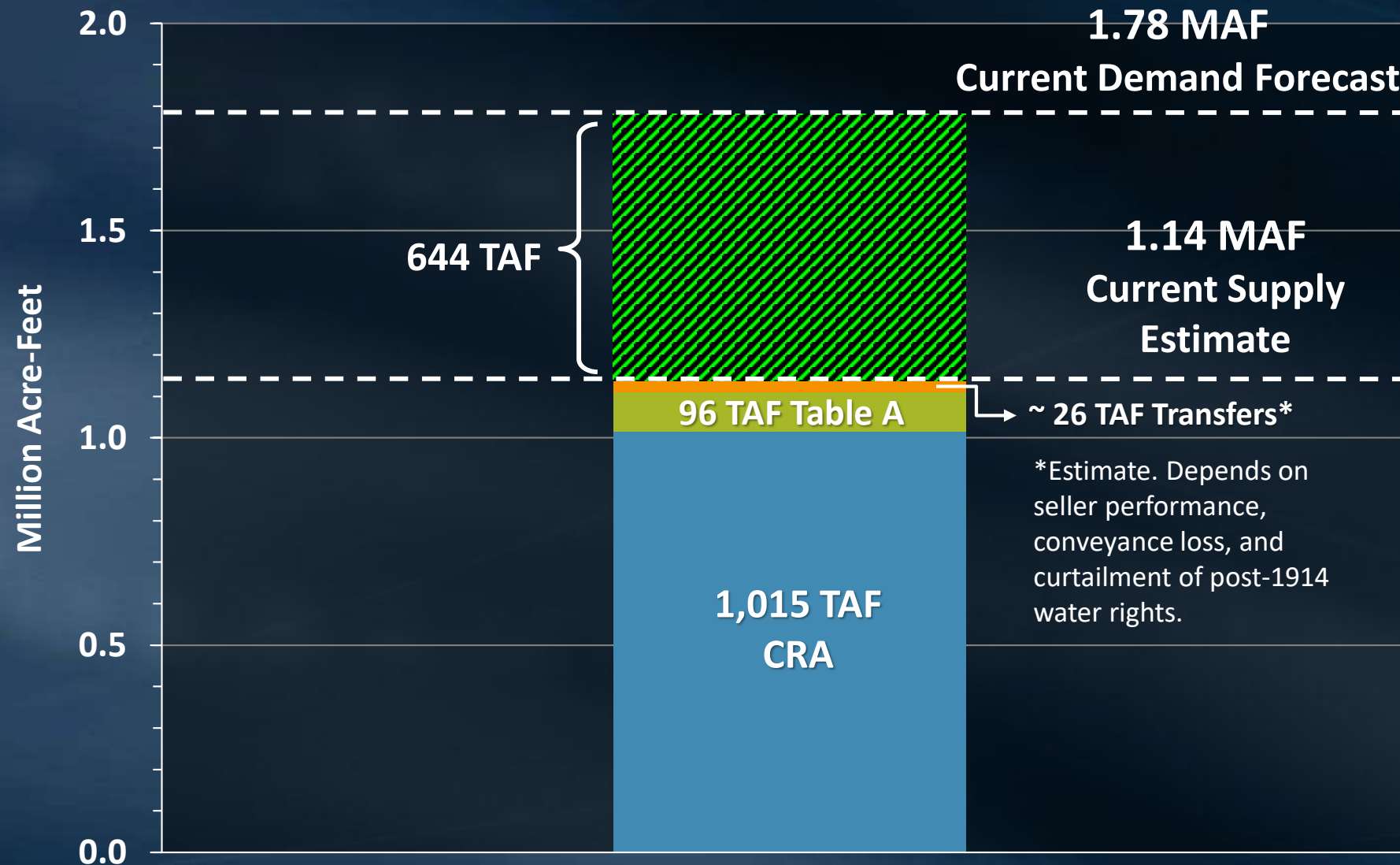
Exchange of Supplies between Metropolitan and Exchange Contractors

Put 9,000 AF to Arvin-Edison
for Exchange Contractors

Return 10,000 AF of surface
water from Arvin-Edison

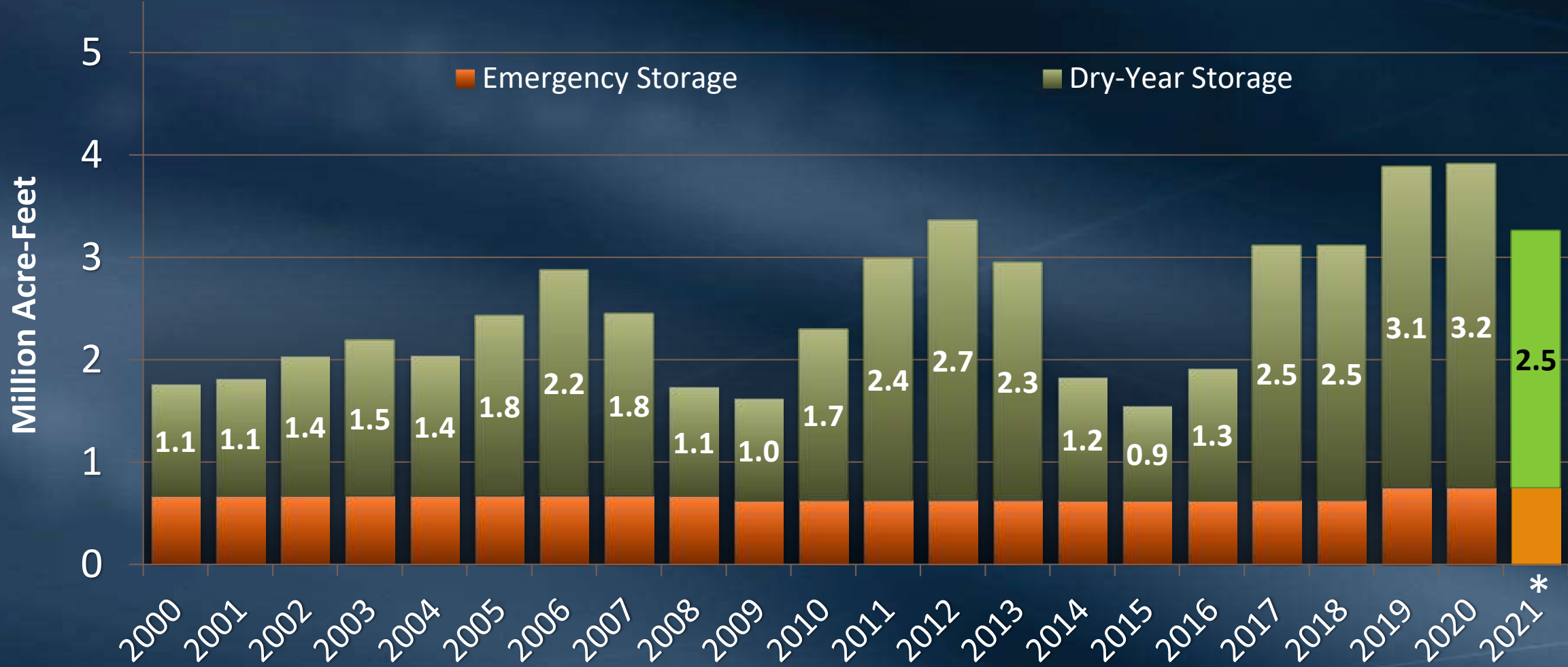


Drafting Storage in 2021 for Supply/Demand Balance



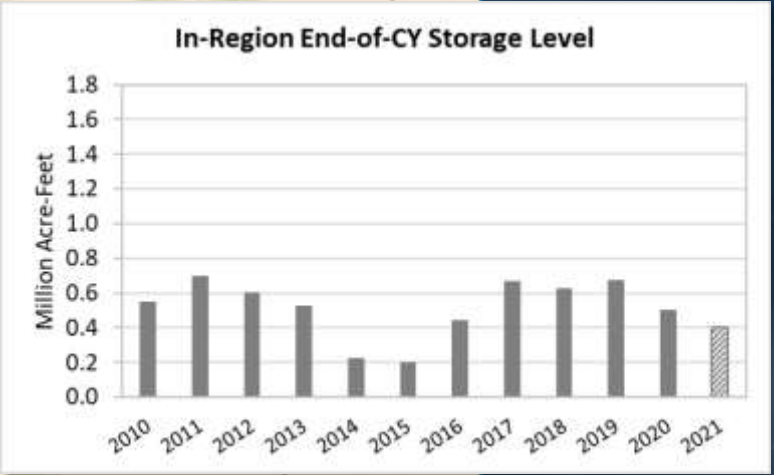
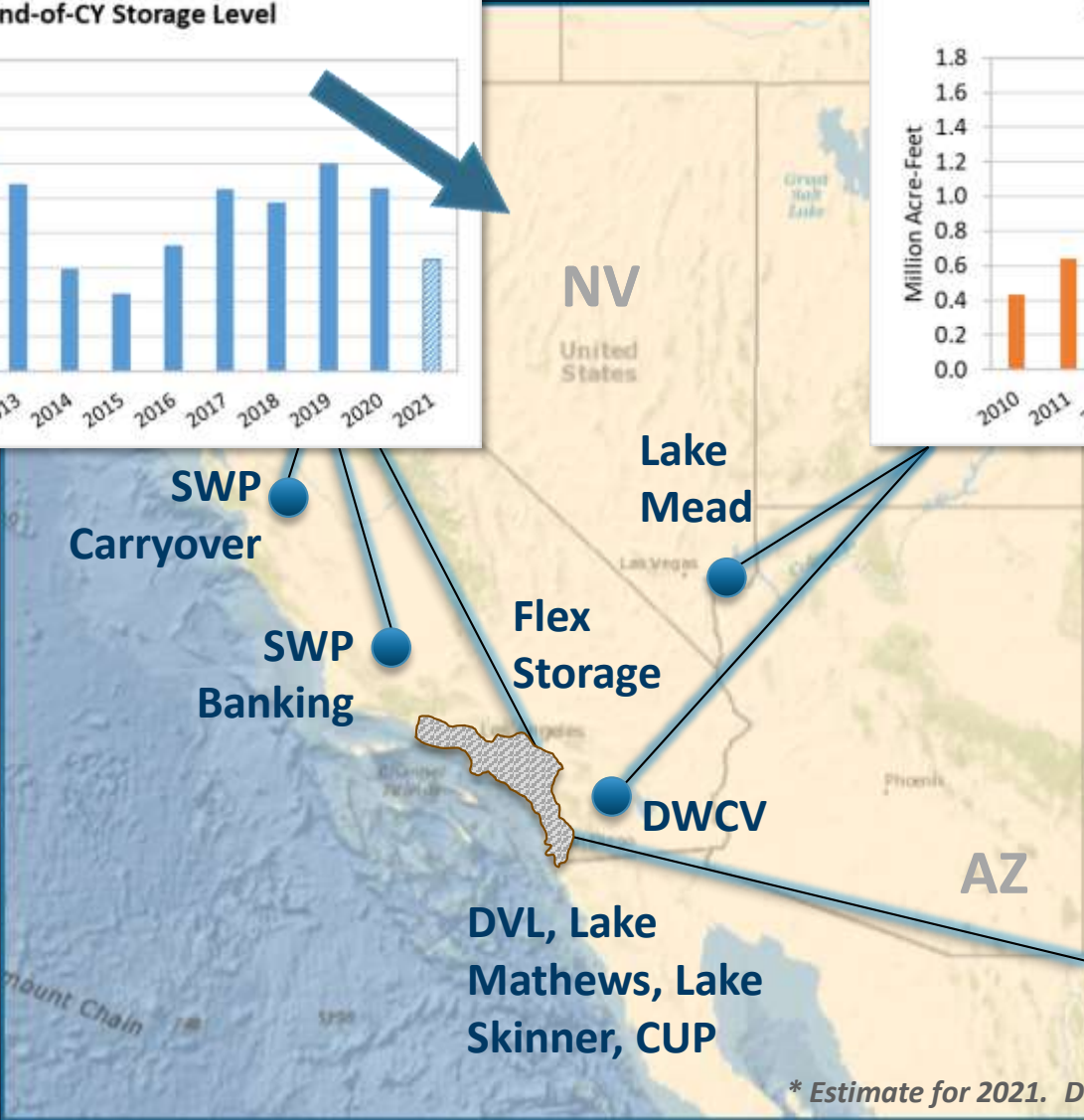
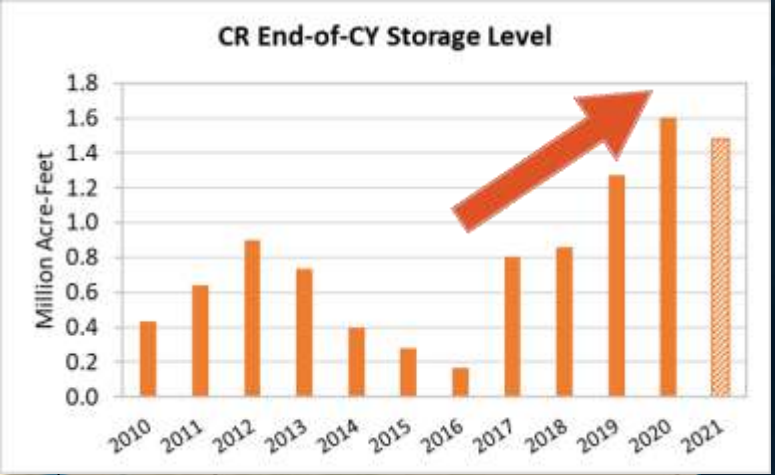
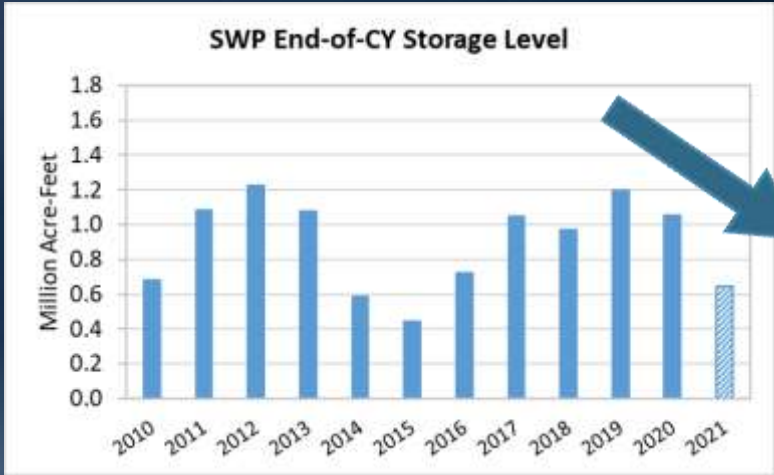
Metropolitan Storage Balances

End of Year Balances



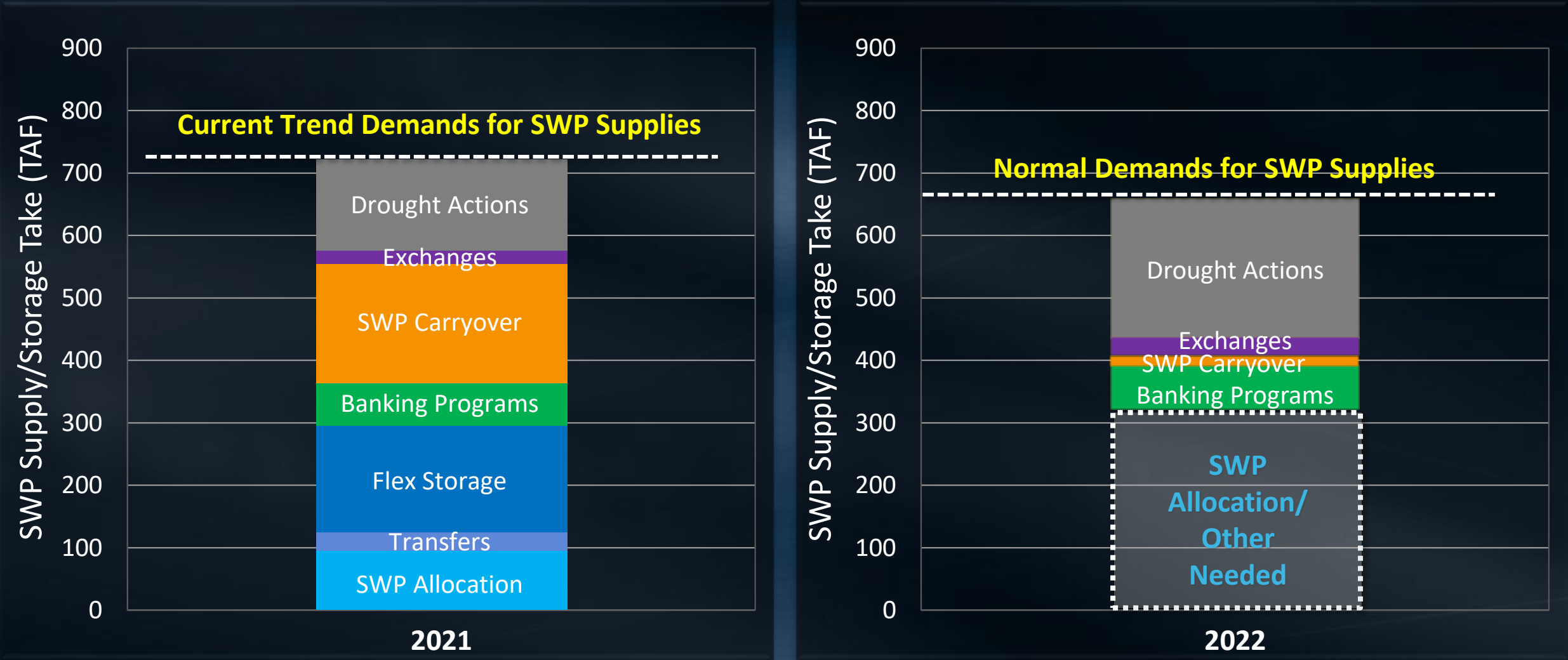
* Estimate – May change based on supply/demand conditions

Storage in SWP Accounts is Falling*



* Estimate for 2021. Does not include emergency storage.

Plausible near-term planning scenario for Metropolitan's SWP Exclusive Area



Moving to a Water Supply Alert is the logical next step to facilitate the region's continued water use efficiency successes

- bewaterwise.com
- Residential Programs
 - Turf Replacement Program
 - Indoor and Outdoor Device Rebates
- Commercial Incentives
 - Indoor and Outdoor Device Rebates
 - On-Site Retrofit Program
 - Water Savings Incentive Program



