Imported Water Committee

Update on WSDM and Status of Emergency Water Conservation Program

Item 6b
October 10, 2022
1. Water Year 2021/22 Recap
2. WSDM Update
3. Emergency Water Conservation Program Update
4. Planning for Calendar Year 2023
Water Year 2021/22 Recap
Water Year 2021/2022

Peak Snowpack and Runoff Conditions

- 61% Peak Snowpack
- 60% WY Runoff
- 91% Peak Snowpack
- 63% WY Runoff
Water Year 2021/2022

Continuation of Below Average Runoff

Sacramento River Runoff

Powell Unregulated Inflow
WSDM Update
WSDM
Supply
Demand
Balance

Regional
View

Current Supply Estimate: 1.28 MAF

Current Demand Forecast on Metropolitan Colorado River Supply:

- SWP Supply: Includes 134 TAF of HH&S Supply
- Colorado River Supply: Reflects -16 TAF of Higher Priority Water Use Adjustment

Supply/Demand Gap: 1.69 MAF
WSDM Supply Demand Balance

Regional View

- 413 TAF Supply/Demand Gap
  - Includes: 134 TAF of HH&S Supply
  - Reflects: -16 TAF of Higher Priority Water Use Adjustment

- 1.69 MAF Current Demand Forecast on Metropolitan
- 1.28 MAF Current Supply Estimate

- Colorado River Supply
- SWP Supply
- Storage

Current Supply Estimate: 413 TAF

Million Acre-Feet
Additional Updates

Upper Feeder Shutdown

- Emergency shutdown began September 6\textsuperscript{th} and concluded September 19\textsuperscript{th}
- Emergency repair to critical MWD infrastructure
- Approximately 12 TAF of SWP supplies used during shutdown
- Affected member agencies were those who receive water from Weymouth
- DWR approved additional Human Health & Safety water request for shutdown
• Human Health and Safety (HH&S) calculation per DWR guidelines:

  2023 Population
  55 gallons per person per day

  Local Supply Available for HH&S

  Unmet HH&S Need

• 2023 HH&S developed in coordination with SWP Dependent Area agencies

• Metropolitan submitted the assessment for the SWP Dependent Area for October 1st deadline
Emergency Water Conservation Program Update
Emergency Water Conservation Program

September Update

• September Path Compliance

<table>
<thead>
<tr>
<th>PATH 1</th>
<th>PATH 2</th>
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<tbody>
<tr>
<td>Las Virgenes MWD</td>
<td>City of Los Angeles</td>
</tr>
<tr>
<td>Three Valleys MWD</td>
<td>Inland Empire Utilities Agency</td>
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<tr>
<td>Calleguas MWD*</td>
<td>Upper San Gabriel Valley MWD</td>
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</tbody>
</table>

*6 of 19 Calleguas water purveyors are Path 2

• No penalties issued for any Path 2 member agencies thus far

• Path 1 one-day-a-week watering continues through month of November
Emergency Water Conservation Program

SWP Dependent Area Demands on Metropolitan

Demand Projection as of April 2022

*Note: Reduced demands in September stemmed from high turbidity in Castaic Lake and operational decisions by member agencies to reduce deliveries from Metropolitan.
**All SWP Dependent Agencies: June to December 2022**

*as of September 30*

<table>
<thead>
<tr>
<th>Performance</th>
<th>-11,811 AF</th>
<th>-8% under</th>
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<tr>
<td>Cumulative Use</td>
<td>129,825 AF</td>
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<td>Remaining Volumetric Limit</td>
<td>121,365 AF</td>
<td>1,319 AF/day</td>
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</table>

Total 2022 Projected Demand: 381,758 AF

Total 2022 Volumetric Limit: 251,190 AF

Performance -11,811 AF -8% under Cumulative Use 129,825 AF 1,064 AF/day Remaining Volumetric Limit 121,365 AF 1,319 AF/day

*Demand projection as of April 26, 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
Commencement of Emergency Conservation Water Program

JUL

AUG

SEP

OCT

NOV

DEC

Begin zero-day outdoor watering (if needed)
Planning for Calendar Year 2023
2022 Storage Projected to be 2.2 MAF
End of Year Balances

Million Acre-Feet

Emergency Storage  Dry-Year Storage


1.1 1.1 1.4 1.5 1.4 1.8 2.2 1.8 1.1 1.0 1.7 2.4 2.7 2.3 1.2 0.9 1.3 2.5 2.5 3.1 3.2 2.6 2.2

* Estimate – May change based on supply/demand conditions
End of Year Storage by Region

**SWP End-of-CY Storage Level**

- 2023 SWP Max Take Capacity: ~99 TAF

**CR End-of-CY Storage Level**

- 2023 CR Max Take Capacity: ~410 TAF

**In-Region End-of-CY Storage Level**

- 2023 In-Region Max Take Capacity: ~306 TAF

- Estimate for 2022. Does not include emergency storage.
Planning for 2023

Three Major Water Supply Problems Impacting 2023

1) Acute shortage of supplies to meet demands in SWP Dependent Area
   - Very low initial SWP Table A allocation expected
   - Depleted SWP system storage

2) Deteriorating Colorado River supply conditions and conservation mandates
   - Level 2A Lower Basin shortage
   - Lake Mead storage needed to satisfy future DCP contributions and obligations

3) Downward trend for in-region storage reserves
   - Depleted MWD storage
Planning for 2023

All Three Problems Are Impacted by 2023 SWP Supplies

- **Low 2023 SWP:**
  - Extend the implementation of the EWCP
  - Continue to rely on Colorado River supplies as a baseload
  - Continue to drawdown regional storage

- **High 2023 SWP:**
  - Meet demands and recover storage in SWP Dependent Area
  - Reduce pressure and allow blending with Colorado River supplies
  - Stabilize and recover regional storage
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 – October 11 tentatively scheduled for transmittal on October 12, 2022

• Ongoing coordination
  • Discussions with member agencies
    • 2023 EWCP parameters
    • Potential regionwide allocation approaches
  • Other system limitations impacts