



MWDOC's 2020 Final UWMP, WSCP, and 2015 Addendum




Municipal Water District of Orange County

Board of Directors | May 19, 2021

Updates Since P&O Committee

- ◆ One comment received - Mesa Water Comment Letter dated May 18, 2021, received prior to close of business on May 18, 2021.
- ◆ Staff has not received any additional comments on the 2020 UWMP, 2020 WSCP, or 2015 Addendum from other agencies, stakeholders, or the public.
- ◆ Table C-1 in Appendix C of the 2020 UWMP was updated to reflect updated values as a result of a clerical error.






**MAKING WATER CONSERVATION
A CALIFORNIA WAY OF LIFE**

Primer of 2018 Legislation on Water Conservation and Drought Planning
Senate Bill 606 (Hertzberg) and Assembly Bill 1668 (Friedman)

Major New Elements of the 2020 UWMP


- ▶ **Major Changes due to SB 606 & AB 1668**
 - ▶ Addition of a five dry-year analysis on the reliability assessment
 - ▶ Drought Risk Assessment for certification of water supplies for the upcoming year.
 - ▶ Inclusion of Water Loss Reporting
 - ▶ Major Changes to Water Shortage Contingency Plans
- ▶ **Delta Stewardship Council Policies**
 - ▶ Appendix C – Reduced Reliance on the Delta

PREPARED BY



California Department of Water Resources


AND




State Water Resources Control Board

NOVEMBER 2018

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MWD OC's Regional Approach



- ▶ MWD OC's UWMP is a regionally focused plan
- ▶ Provides analysis and information at the regional level
 - ▶ Water Demand Projections and supply analysis
 - ▶ SBx7-7 by 2020 – O.C. Regional Alliance
 - ▶ Water Use Efficiency activities and efforts
- ▶ Coordination of Water Shortage Contingency Plans & Model Drought Ordinance

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MWDOC 2020 UWMP

- 💧 MWDOC's UWMP demonstrates the supply capabilities to meet expected demands from 2025 to 2045 under average, single-dry year, and five dry-year conditions
- 💧 Includes MET's 2020 UWMP supply conditions assumptions which ensures reliability
- 💧 Includes OCWD's and other groundwater basin management estimates
- 💧 Includes key assumptions in Orange County Reliability Study
- 💧 Includes local demand and supply information from the Member Agencies
- 💧 Water Shortage Contingency Plan will now be "stand alone"



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Imported Supplies - Metropolitan

- 💧 MWDOC's Supply and Demand analysis is specific to imported water
- 💧 MET's 2020 UWMP analysis shows sufficient supplies to meet all anticipated demands in all water year conditions
- 💧 Includes the most recent information from DWR and MET on export deliveries from the SWP
- 💧 Does not include supplies from the Delta Conveyance Project
- 💧 Integrates MET's water shortage contingency plan including their water supply allocation plan and six standard shortage levels



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Future Local Projects

Orange County Water District

- UWMP assumes a Basin Pumping Percentage (BPP) of 85% starting in 2025 and covering the 25 year planning horizon per OCWD
- Inclusion of OCWD/OCSD Groundwater Replenishment System (GWRS) final expansion

Recycled Water & Groundwater Recovery Projects

- Coordination with member agencies and wastewater districts



Ocean Desalination

- Description of the efforts in Doheny and Huntington Beach

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MWDOC Service Area Demands

- 2020 MWDOC UWMP Demands are based on a collaboration between CDM Smith Member Agency Demands and the Member Agencies
 - For agencies that submitted their own projections for demands, those were used in-lieu of CDM Smith's.
- Dry Year Analysis
 - Based on the 2016 OC Reliability Study
 - Single Dry Year = FY 2013-14
 - Five Dry Years = FY 2011/12-FY 2015-16
 - Conservative Scenario of a 6% increase in demands during dry years



MWDOC's Demands



MWDOC Service Area Water Supply Projections (AF)

Water Source	2020	2025	2030	2035	2040	2045
OCWD Basin GW	192,652	231,936	236,430	236,506	236,280	236,274
Non-OCWD GW	21,267	22,734	24,747	24,763	24,740	24,890
Recycled Water	42,330	52,017	53,891	56,926	57,043	57,094
Surface Water	9,897	4,700	4,700	4,700	4,700	4,700
Imported (Retail M&I)	142,879	119,743	120,573	123,502	123,107	122,819
Total M&I Demand	409,025	431,130	440,341	446,398	445,870	445,778
Imported Irvine Lake Fill (Non-M&I)	649	4,017	4,017	4,017	4,017	4,017
Imported GW Replenishment (Non-M&I)	18,027	51,600	51,600	51,600	51,600	51,600
Total non- M&I Demand	18,676	55,617	55,617	55,617	55,617	55,617
Total Water Demand	427,701	486,747	495,958	502,014	501,487	501,394

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MWDOC's Supply and Demand Assessment



Five Dry Years Supply and Demand Comparison

		2025	2030	2035	2040	2045
First year	Supply totals	172,611	176,121	177,446	179,846	179,449
	Demand totals	172,611	176,121	177,446	179,846	179,449
	Difference	0	0	0	0	0
Second year	Supply totals	175,094	176,297	178,067	179,762	179,389
	Demand totals	175,094	176,297	178,067	179,762	179,389
	Difference	0	0	0	0	0
Third year	Supply totals	177,578	176,473	178,688	179,678	179,328
	Demand totals	177,578	176,473	178,688	179,678	179,328
	Difference	0	0	0	0	0
Fourth year	Supply totals	180,061	176,649	179,309	179,594	179,267
	Demand totals	180,061	176,649	179,309	179,594	179,267
	Difference	0	0	0	0	0
Fifth year	Supply totals	182,545	183,425	186,530	186,110	185,806
	Demand totals	182,545	183,425	186,530	186,110	185,806
	Difference	0	0	0	0	0

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MWDOC Water Shortage Contingency Plan

- 💧 Stand Alone Document that can be update outside of the 2020 UWMP
 - 🔥 Standardized for the six standard levels 10%, 20%, 30%, 40%, 50%, and greater than 50%
 - 🔥 Inclusion of a 0% shortage level that contains permanent water use efficiency measures
 - 🔥 Inclusion of procedures and process for an annual water supply and demand assessment
 - 🔥 Includes shortage response actions and estimates of potential to close the supply gap for several major actions
- 💧 MWDOC's WSCP will help to "fold into" the Member Agency Plan's



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Appendix C – Reduced Reliance on the Delta (New)

- 💧 Agencies participating in a covered action in the Delta must comply with Delta Stewardship Council (DSC) Policies
- 💧 DSC Policy WR-P1 - *Reduce Reliance on the Delta Through Improved Regional Water Self-Reliance*
- 💧 Metropolitan, MWDOC, and the retail agencies are all required to complete Appendix C
- 💧 MWDOC has been closely coordinating with Metropolitan
 - 🔥 Appendix C in MWDOC's 2020 UWMP reflects MWDOC investments in conservation and member agency projects that have reduced reliance on the Delta
- 💧 MWDOC's 2020 Appendix C will be appended to the 2015 UWMP to ensure compliance with WR P1

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Reduce Reliance on the Delta

- 💧 Near-term (2025) –regional self-reliance is expected to increase by 243 TAF from the 2010 baseline
 - 🔥 Represents about 37 percent of 2025 normal water year retail demands compared to the baseline
- 💧 Long-term (2040) –Regional self-reliance is expected to increase by nearly 265 TAF from the 2010 baseline
 - 🔥 Represent about 38 percent of 2040 normal water year retail demands compared to the baseline
- 💧 MWD and its Member Agencies have made significant efforts in Conservation and local projects to increase Regional self-reliance



Comments Received (Summarized)

- 💧 IRWD (2 Comment Letters)
 - 🔥 Clarification of IRWD related sections
 - 🔥 Clarification of language related to regional projections
- 💧 OCWD (2 Comment Letters)
 - 🔥 Updated information for groundwater related sections & additional clarification
 - 🔥 Huntington Beach Desalination consideration in the UWMP tables
- 💧 SCAG
 - 🔥 Recommendation to consider RHNA 6th cycle in the UWMP



Changes between Draft and Final UWMP

2020 UWMP

- Updated Groundwater Replenishment information from OCWD.
- Changes to reflect Member Agency comments

2020 WSCP

- Updated Shortage Communication Protocols
- Updated Emergency Response sections & references
- Clarification within the shortage levels

Appendix C (2015 Addendum)

- Updated Metropolitan table
- Updated MWDOC table to reflect new replenishment information



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Process

March 12	Release of Internal Draft of the MWDOC 2020 UWMP
March 18	Presentation of Draft UWMP at Member Agency Manager Meeting
March 29	Deadline for Member Agency comments to be considered for the Public Review Draft
April 5	Public Review Draft presented at the MWDOC Planning and Operations Committee
April 23	Deadline for Comments on the Public Draft of the UWMP
May 3	Final UWMP at MWDOC Planning and Operations Committee
May 19	Final UWMP Public Hearing and Adoption
July 1	Deadline to submit UWMP, WSCP, and Addendum to DWR



Staff Recommendation

(1) Open the public hearing (as noticed) regarding MWDOC's Proposed 2020 Urban Water Management Plan, MWDOC's proposed 2020 Water Shortage Contingency Plan, and Addendum to MWDOC's 2015 Urban Water Management Plan, to receive input from the public; and

(2) Adopt the following three (3) resolutions, in the general form presented, with amendments if necessary:

- a. Resolution adopting MWDOC's 2020 Urban Water Management Plan
- b. Resolution adopting MWDOC's 2020 Water Shortage Contingency Plan
- c. Resolution adopting an Addendum to the MWDOC 2015 Urban Water Management Plan



Questions?

- 💧 Staff is available for any questions



Backup



RHNA-6th Cycle Background

- 💧 Regional Housing Needs Assessment (RHNA) is mandated by State housing law and quantifies the need for housing within each city during a specific planning period.
- 💧 Every city must **plan** for its RHNA allocation by ensuring there is enough sites and zoning capacity to accommodate their RHNA allocation
- 💧 RHNA-6th cycle spans 2021-2029
- 💧 The Southern California Association of Governments is the planning agency that distributes the final allocation.
- 💧 Private sector ultimately responsible for building housing units.



RHNA-6th Cycle

- 💧 RHNA housing units allocated to cities are an output of SCAG's RHNA methodology, which includes population projections as an input variable.
- 💧 RHNA Process for land use agencies
 - 🔥 Six months for Housing Elements (Oct 2021)
 - 🔥 Three years for update zoning (2024)
- 💧 RHNA allocations may affect future iterations of the population and housing projections
 - 🔥 After cities update their General Plan Housing Elements & Zoning
- 💧 Jurisdictions will provide updated information to CDR & SCAG during next population iteration
 - 💧 6th cycle will be incorporated into 2025 & 2030 UWMP



RHNA & Water Projections

- 💧 Important to have the local land use agencies go through their process for official incorporation into the CDR population projections.
- 💧 This process will clarify the following issues:
 - 🔥 Many of the Orange County Jurisdictions are built out
 - 🌱 Understanding what is being replaced and to what density is important to understanding water use
 - 💧 Critical to understand the split between Multi-Family and Single Family Development
 - 🔥 Overcrowding is important to understand in relation to water use
 - 🌱 May be more housing units but may not be a one-to-one increase in population
- 💧 New development is much more efficient with code based standards than older development that may be replaced

