

EXECUTIVE SUMMARY

OVERVIEW

This 2008 Urban Water Management Plan (UWMP) has been prepared for the City of Fresno by West Yost Associates (WYA) in accordance with the requirements of the California Urban Water Management Planning Act. This 2008 UWMP addresses current and projected future water supply availability and reliability and provides a comparison with current and projected future water demands through the year 2030. This 2008 UWMP also describes the City's current and planned water conservation programs, and provides a water shortage contingency plan for implementation in the event of a severe water shortage or water supply emergency.

This 2008 UWMP includes a future water supply plan for the City which includes a diversified portfolio of water supplies (including treated surface water, groundwater, and recycled water) and an aggressive water conservation plan to reduce water demands throughout the City's water service area. The water conservation plan takes an incremental, but realistic, approach to an aggressive long-term goal, reducing the per capita water consumption by 20 percent and balancing aquifer usage. However, the Fresno City Council has expressed their desire to raise expectations for water conservation for City-owned properties and operations. This self-imposed objective is to be considered an example to the community and citizens that the City of Fresno is making water resource management a priority. The City will also strive to go above and beyond the conservation programs proposed in this 2008 UWMP..

It should also be noted that the City's water supply plan and water conservation plan, presented herein, is consistent with Governor Arnold Schwarzenegger's February 2008 call for reducing per capita water use statewide by 20 percent by 2020.

Information and data presented in this 2008 reflects the information and data available at the time of preparation and generally reflects available water supply production and demand data through December 2007. Water supply and demand projections are provided in five-year increments to the year 2030 to provide for a 20+ year planning horizon.

This 2008 UWMP was adopted by the Fresno City Council on August 19, 2008, and supersedes all previous UWMPs prepared by the City.

COMPLIANCE WITH THE UWMP ACT

This 2008 UWMP has been prepared in accordance with the requirements of the California Urban Water Management Planning Act, first established in 1983 and amended numerous times since then, with guidance from the California Department of Water Resources *Guidebook for Preparation of a 2005 Urban Water Management Plan* (DWR Guidebook) dated January 2005. The DWR Guidebook provides detailed information and suggestions to comply with the UWMP Act requirements. Table ES-1 provides a cross-reference between the DWR-suggested tables and the tables provided in this UWMP. The chapters and sections of this UWMP also contain references to the provisions of the UWMP Act in *italics* to demonstrate compliance with the UWMP Act.

Table ES-1. DWR Guidebook Table Cross-References

Table Title	DWR Table Number ^(a)	City of Fresno UWMP Table Number
Coordination with Appropriate Agencies	Table 1	Table 2-1
Population – Current and Projected	Table 2	Table 3-2
Climate	Table 3	Table 3-6
Current and Planned Water Supplies	Table 4	Table 4-18
Groundwater Pumping Rights	Table 5	Table 4-9
Amount of Groundwater Pumped	Table 6	Table 4-10
Amount of Groundwater Projected to be Pumped	Table 7	Table 4-11
Supply Reliability	Table 8	Table 5-6
Basis of Water Year Data	Table 9	Table 5-7
Describe the factors resulting in inconsistency of supply	Table 10	Table 5-8
Transfer and Exchange Opportunities	Table 11	Table 4-16
Past, Current and Projected Water Deliveries	Table 12	Table 6-6
Sales to Other Agencies	Table 13	Table 6-7
Additional Water Uses and Losses	Table 14	Table 6-8
Total Water Use	Table 15	Table 6-9
Evaluation of Unit Cost of Water that would result from Non-Implemented DMMs and Planned Water Supply Projects and Programs	Table 16	Table 8-6
Future Water Supply Projects	Table 17	Table 4-15
Opportunities for Desalinated Water	Table 18	Table 4-17
Agency Demand Projections Provided to Wholesale Provider	Table 19	Not Applicable
Wholesaler Identified and Quantified the Existing and Planned Sources of Water Available to Your Agency	Table 20	Not Applicable
Wholesale Supply Reliability	Table 21	Not Applicable
Factors Resulting in Inconsistency of Wholesaler’s Supply	Table 22	Not Applicable
Water Supply Shortage Stages and Conditions	Table 23	Table 9-1
Three-Year Estimated Minimum Water Supply	Table 24	Table 9-3
Preparation Actions for a Catastrophe	Table 25	Table 9-4
Mandatory Prohibitions	Table 26	Table 9-5
Consumption Reduction Methods	Table 27	Table 9-9
Penalties and Charges	Table 28	Table 9-10
Proposed Measures to Overcome Revenue Impacts	Table 29	Table 9-13
Proposed Measures to Overcome Expenditure Impacts	Table 30	Table 9-13
Water Use Monitoring Mechanisms	Table 31	Table 9-16
Recycled Water Plan Participating Agencies	Table 32	Table 10-1

Table Title	DWR Table Number ^(a)	City of Fresno UWMP Table Number
Wastewater Collected and Treated	Table 33	Table 10-2
Disposal of Wastewater	Table 34	Table 10-3
Recycled Water Uses – Actual	Table 35a	Table 10-4
Recycled Water Uses – Potential	Table 35b	Table 10-6
Projected Future Use of Recycled Water in Service Area	Table 36	Table 10-7
Recycled Water Uses – 2000 Projection Compared with 2005 Actual	Table 37	Table 10-5
Methods to Encourage Recycled Water Use	Table 38	Table 10-8
Current and Projected Water Supply Changes Due to Water Quality	Table 39	Table 5-9
Projected Normal Water Year Supply	Table 40	Table 7-1
Projected Normal Water Year Demand	Table 41	Table 7-2
Projected Normal Water Year Supply and Demand Comparison	Table 42	Table 7-3
Projected Single Dry Year Water Supply	Table 43	Table 7-4
Projected Single Dry Year Water Demand	Table 44	Table 7-5
Projected Single Dry Year Supply and Demand Comparison	Table 45	Table 7-6
Projected Supply During Multiple Dry Year Period Ending in 2010	Table 46	Table 7-7
Projected Demand During Multiple Dry Year Period Ending in 2010	Table 47	Table 7-8
Projected Supply and Demand Comparison During Multiple Dry Year Period Ending in 2010	Table 48	Table 7-9
Projected Supply During Multiple Dry Year Period Ending in 2015	Table 49	Table 7-10
Projected Demand During Multiple Dry Year Period Ending in 2015	Table 50	Table 7-11
Projected Supply and Demand Comparison During Multiple Dry Year Period Ending in 2015	Table 51	Table 7-12
Projected Supply During Multiple Dry Year Period Ending in 2020	Table 52	Table 7-13
Projected Demand During Multiple Dry Year Period Ending in 2020	Table 53	Table 7-14
Projected Supply and Demand Comparison During Multiple Dry Year Period Ending in 2020	Table 54	Table 7-15
Projected Supply During Multiple Dry Year Period Ending in 2025	Table 55	Table 7-16
Projected Demand During Multiple Dry Year Period Ending in 2025	Table 56	Table 7-17
Projected Supply and Demand Comparison During Multiple Dry Year Period Ending in 2025	Table 57	Table 7-18
Projected Supply During Multiple Dry Year Period Ending in 2030	Optional	Table 7-19
Projected Demand During Multiple Dry Year Period Ending in 2030	Optional	Table 7-20
Projected Supply and Demand Comparison During Multiple Dry Year Period Ending in 2030	Optional	Table 7-21

(a) DWR Guidebook for Preparation of a 2005 Urban Water Management Plan, January 2005.