



**A. Reso No. 23-45, 2020 Urban
Water Management Plan**

**B. Reso No. 23-46, Water
Shortage Contingency Plan**

November 14, 2023

Urban Water Management Plan

Public Hearing Agenda

- Revisions UWMP
- UWMP Act Overview
- Population and Demand Assessment
- SBX7-7 GPCD Targets
- Water Supplies and Demands
- Water Shortage Contingency Planning

UWMP Revisions

- Section 5.1 was modified – SB X 7-7 Calculations
- Sections 5.1.3 and 5.1.5 were removed (El Rancho)
- Figure 3-2 was updated. Service Area Boundary
- Appendix B was modified – SB X 7-7 Calculations

The conclusions of the chapters and the report remain the same

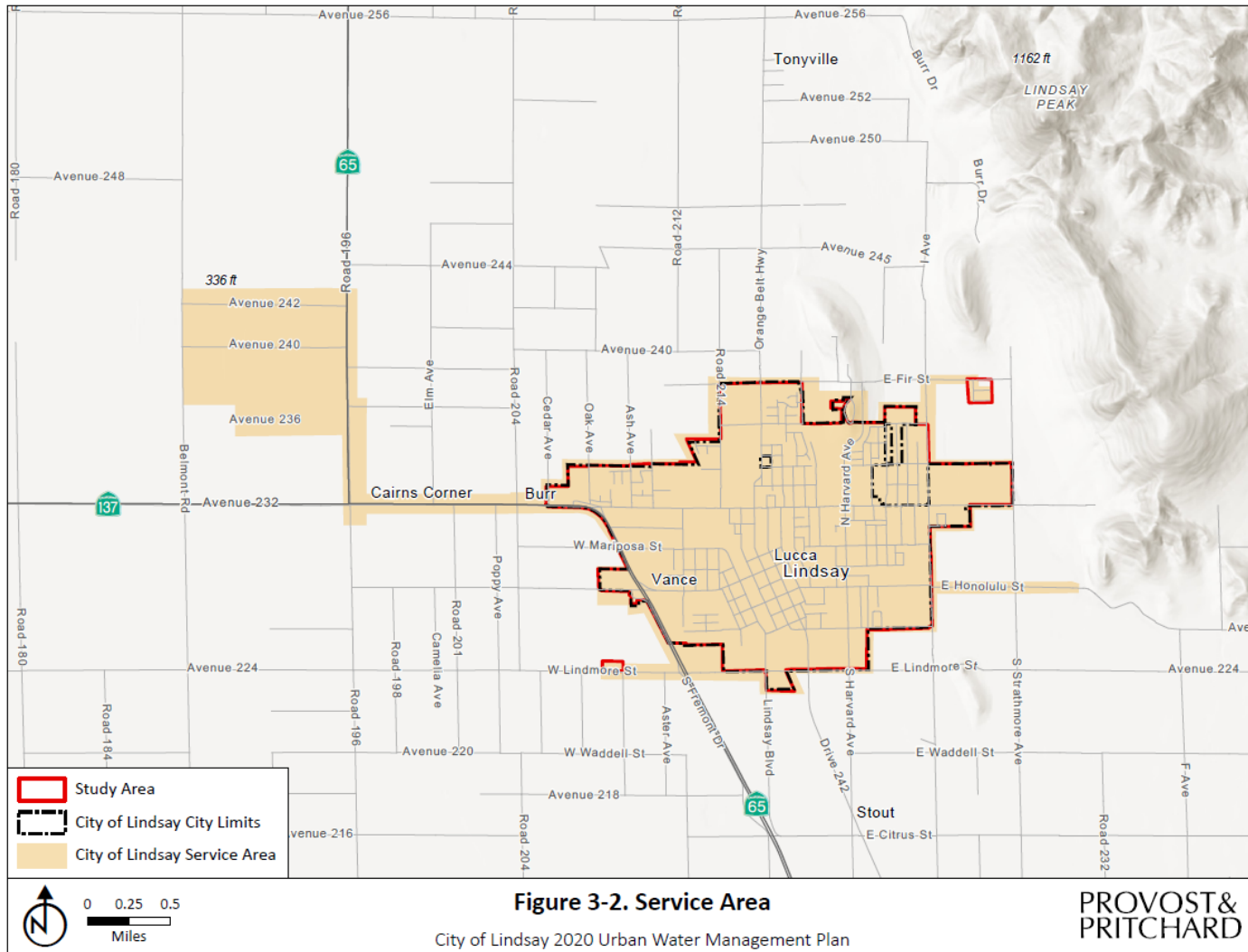
What is an Urban Water Management Plan?

- Plan that provides a general framework for long-term water resource planning (20 years)
- Required by all urban water suppliers with $\geq 3,000$ service connections or supplying $\geq 3,000$ acre-feet per year (AFY)
- Completion required for State grant and loan eligibility
- Update required every five years
- UWMP Submittal Deadline: July 1, 2021

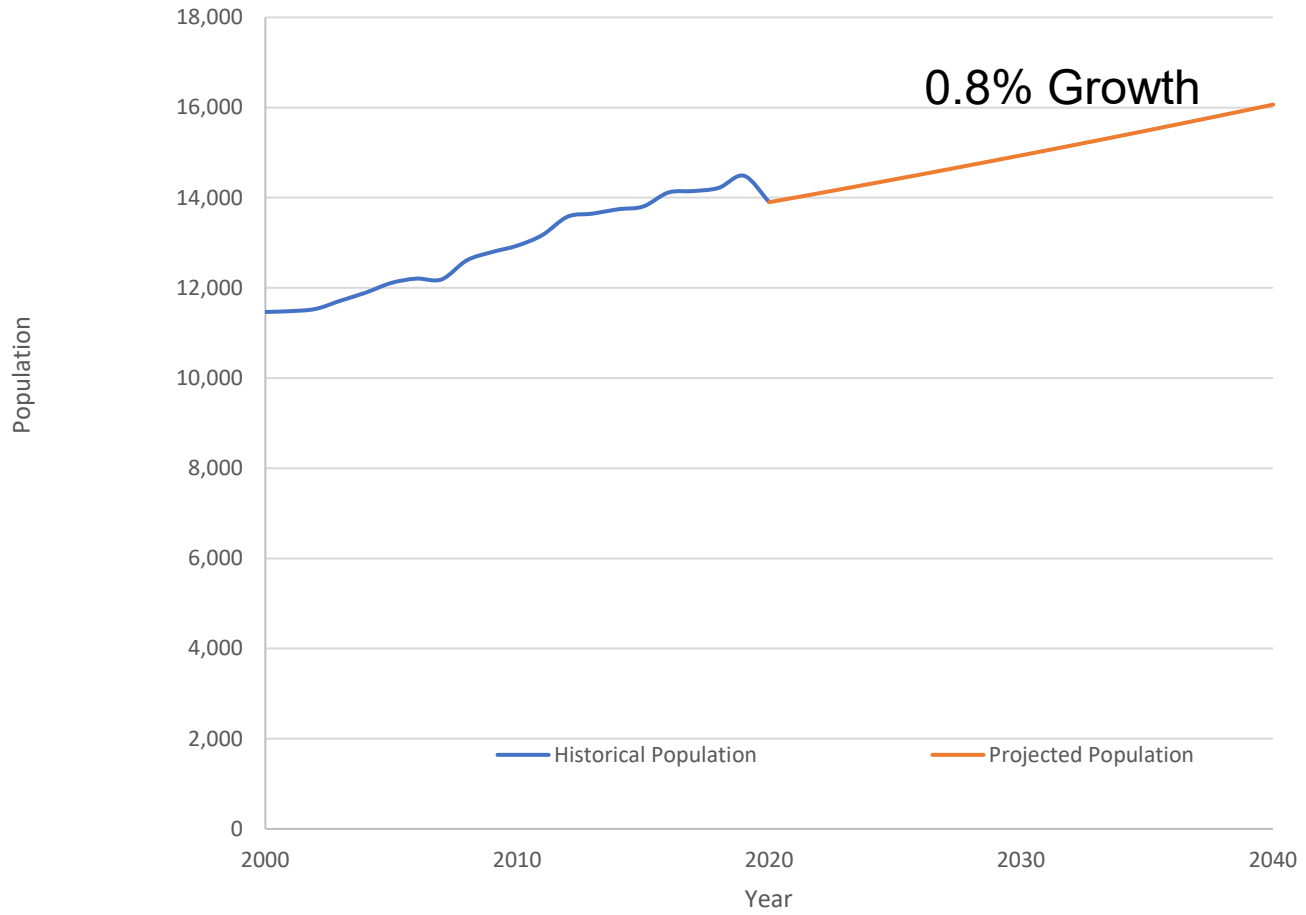
Why are UWMPs Developed?

- 1983 Urban Water Management Planning Act
- To identify relationships between supply and demand
- To provide detailed description of all supply sources
- To identify conservation programs and plans for shortages
- To address water quality issues
- To describe how demand will be met through time, in all hydrologic year types

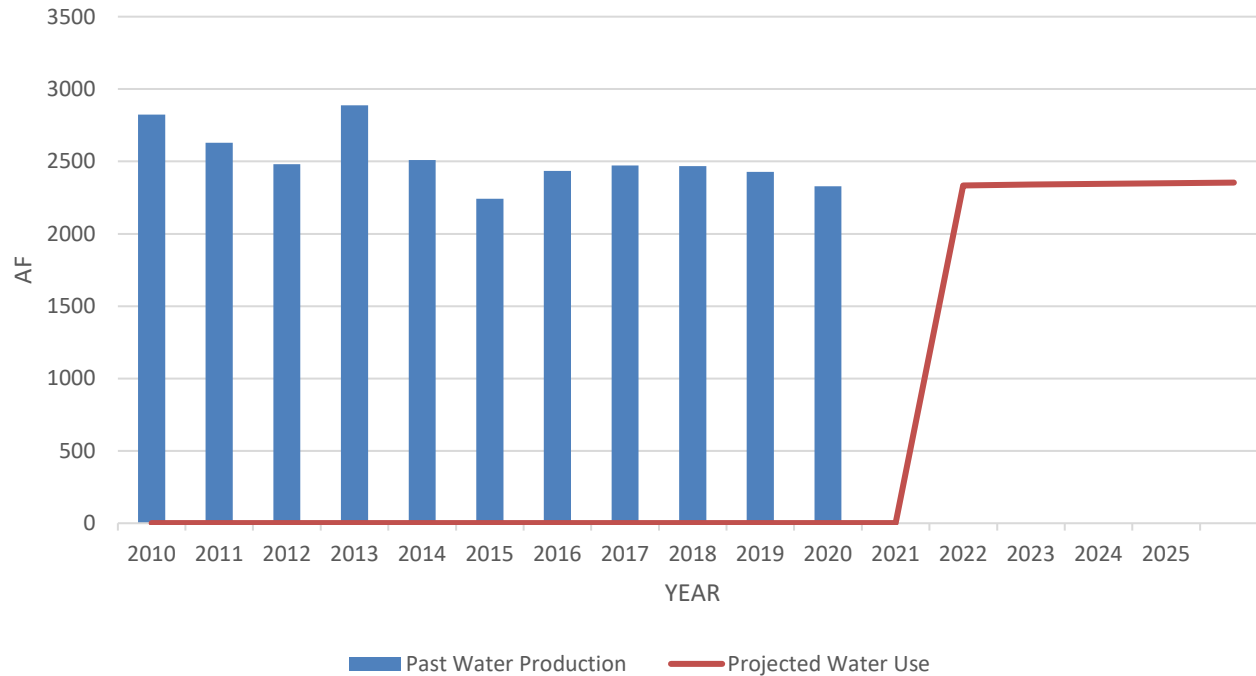
3. System Description



Current and Projected Population



4. System Demand-Current and Projected



5. SBX7-7 Compliance and Targets

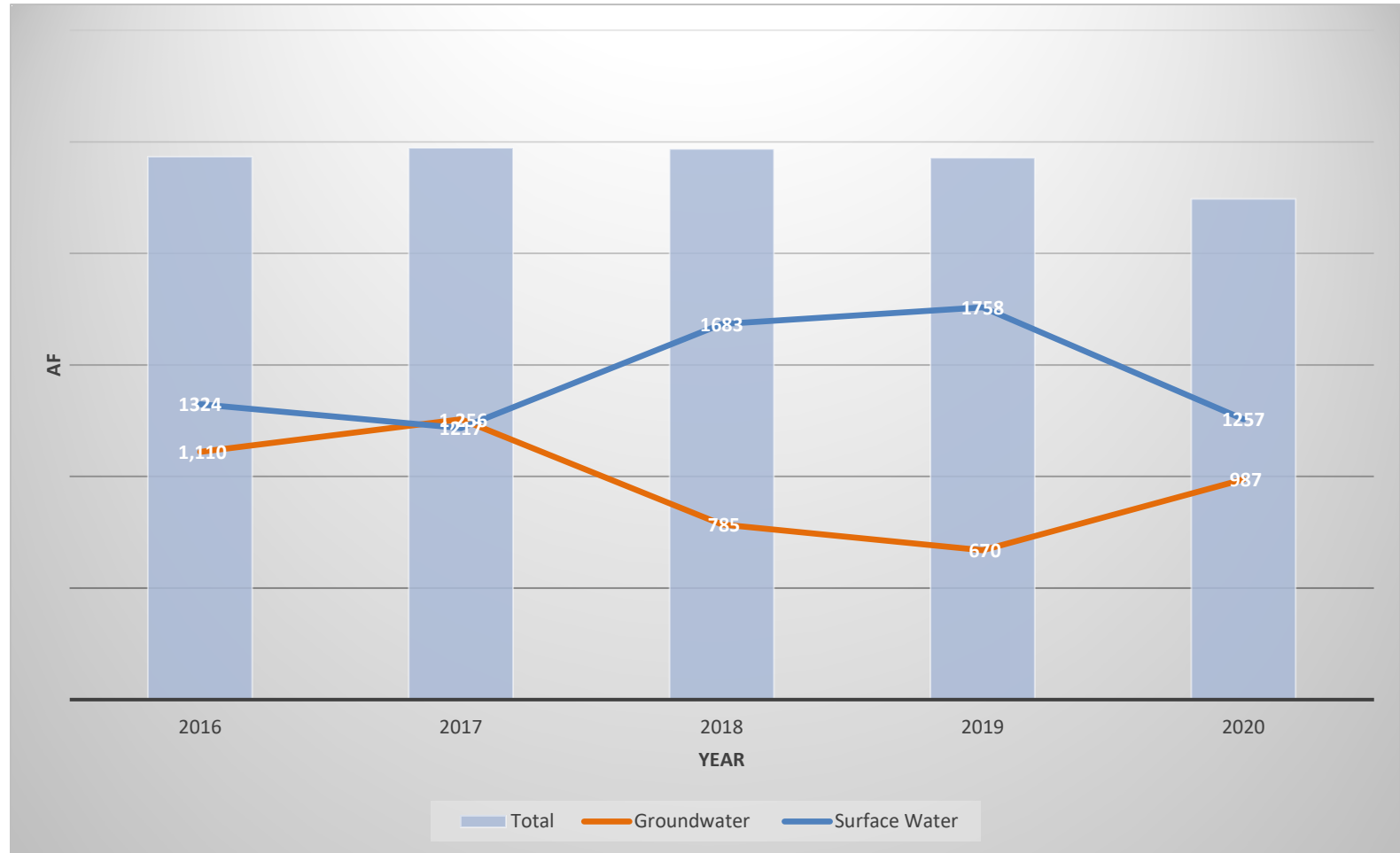
- Water Conservation Act of 2009
 - Requires reduction in per-capita water use of 20% by 2020 from baseline
- 2020 UWMP requires:
 - Compliance with 2020 Target

SBX7-7 Calculations

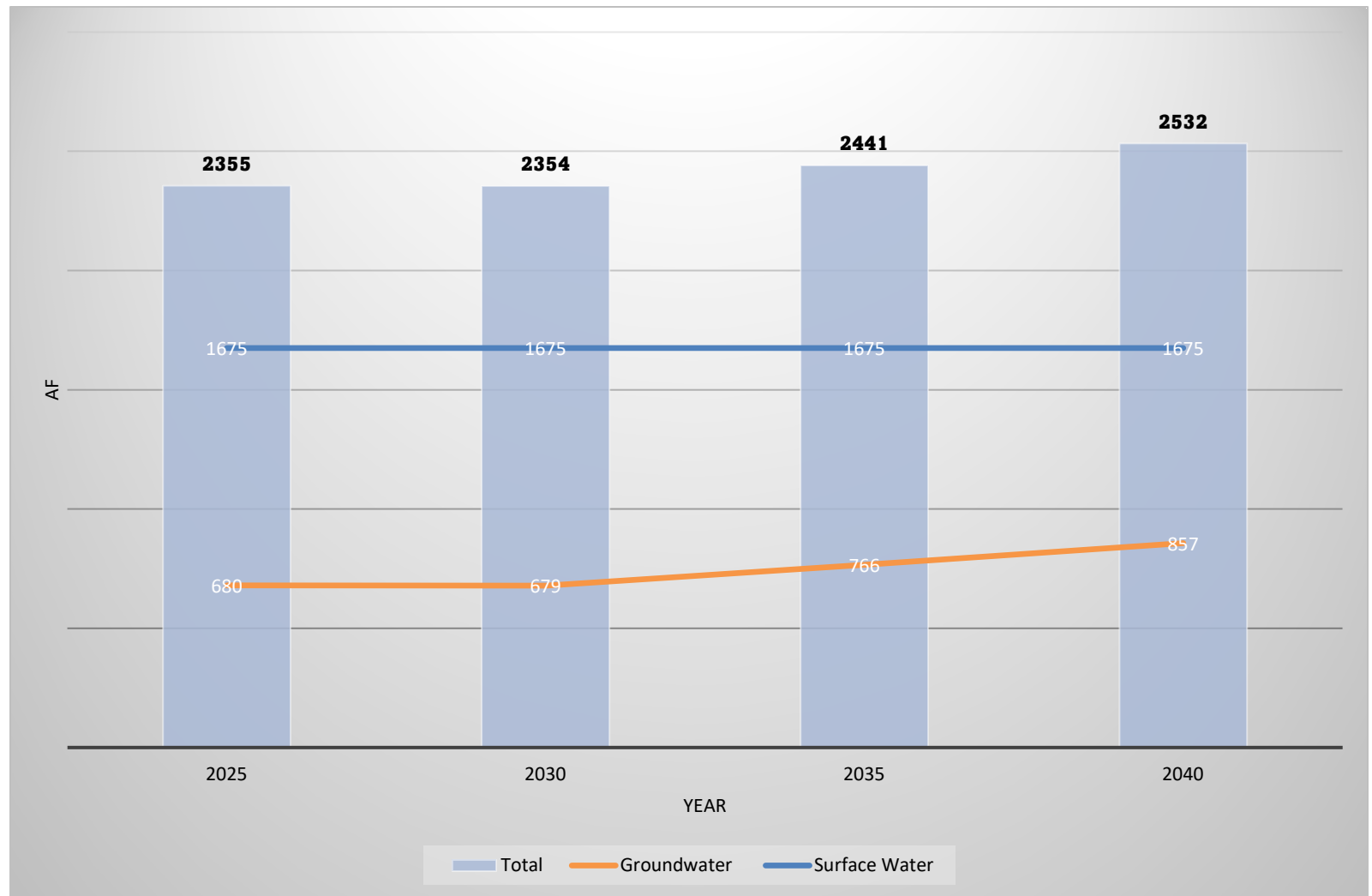
SBX7-7 Category	Water Use (GPCD)
Baseline Water Use	189
2020 Target	151
2020 Actual Water Use	150

The City has met its 2020 Target.

6. System Supplies; Water Supply Portfolio



2045 Water Supply Portfolio



7. Water Supply Reliability

Factors

1. Legal
2. Environmental Constraints
3. Infrastructure
4. Water Quality
5. Climatic Variations

Reliability by Type Year

1. Average Year
2. Single-dry Year
3. Multi-dry year

Average Year Supply and Demand



Single-Dry Year Supply and Demand

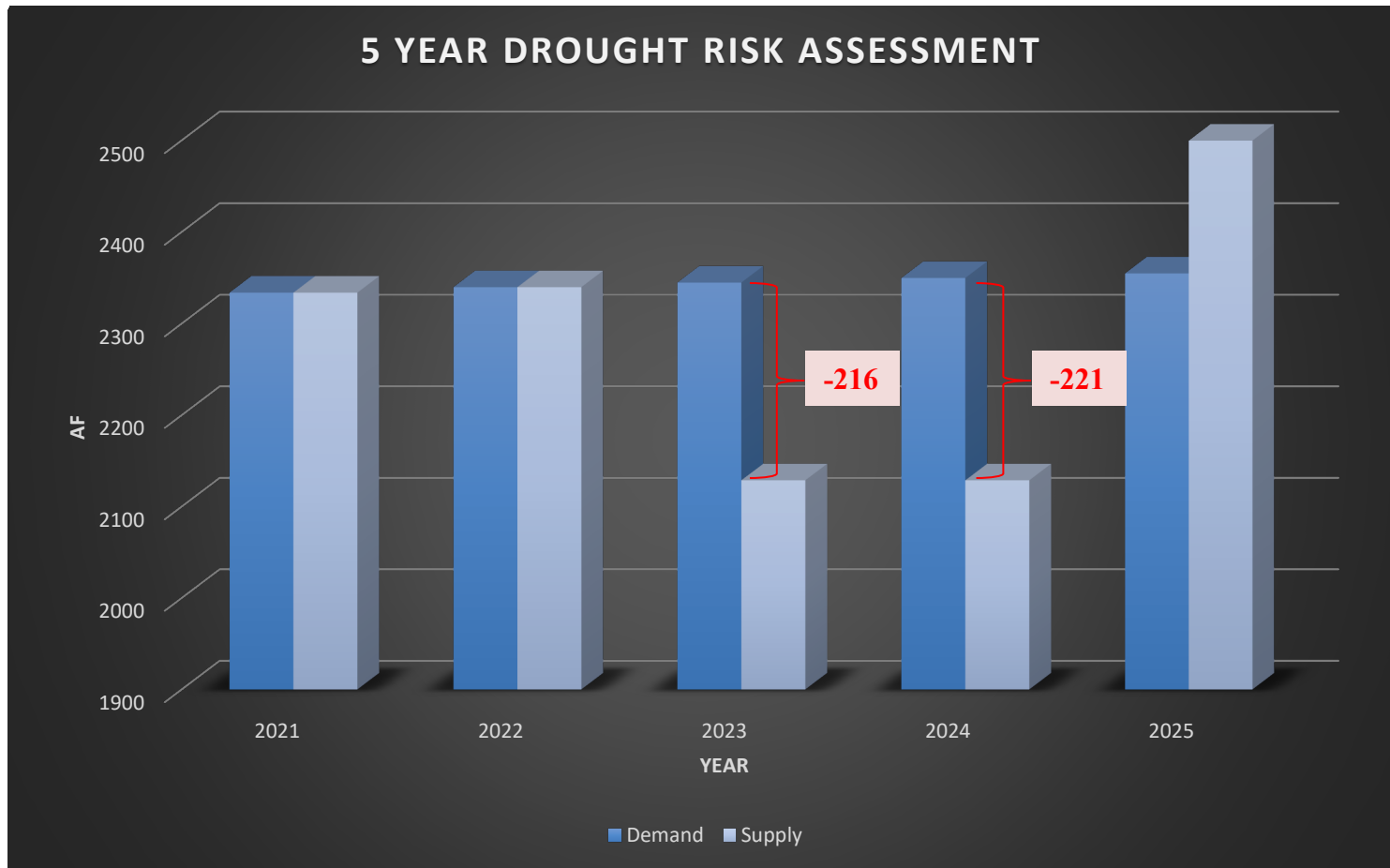


Multiple-Dry Year Supply and Demand

Table 7-4: Multiple-Dry Year Supply and Demand Comparison (Submittal Table 7-4)

		2025	2030	2035	2040
First Year	Supply Totals	2,355	2,354	2,441	2,532
	Demand Totals	2,355	2,354	2,441	2,532
	Difference	0	0	0	0
Second Year	Supply Totals	2,355	2,354	2,441	2,532
	Demand Totals	2,355	2,354	2,441	2,532
	Difference	0	0	0	0
Third Year	Supply Totals	2,129	2,354	2,441	2,532
	Demand Totals	2,355	2,354	2,441	2,532
	Difference	(226)	0	0	0
Fourth Year	Supply Totals	2,129	2,354	2,441	2,532
	Demand Totals	2,355	2,354	2,441	2,532
	Difference	(226)	0	0	0
Fifth Year	Supply Totals	2,355	2,354	2,441	2,532
	Demand Totals	2,355	2,354	2,441	2,532
	Difference	0	0	0	0

Drought Risk Assessment



8. Water Shortage Contingency Planning (Separate Document)

- Have stages of action that address a reduction of 50% in water supply
- Ordinance/Resolution adopting the WSCP
- Emergency Outage Scenarios
- Assess Worst-Case Scenario
- In-depth Seismic Evaluation of Facilities
- Regional Emergency and Power Outage Scenarios

Water Shortage Stages

Table 4-1: Water Shortage Stages (DWR WSCP Submittal Table 8-1)

Shortage Stage	Percent Supply	Water Supply Condition
1	<10%	Available water production is up to 10% less than the estimated monthly demand.
2	10-20%	Available water production is up to 20% less than the estimated monthly demand.
3	20-30%	Available water production is up to 30% less than the estimated monthly demand.
4	30-40%	Available water production is up to 40% less than the estimated monthly demand.
5	40-50%	Available water production is up to 50% less than the estimated monthly demand.
6	>50%	Available water production is greater than 50% less than the estimated monthly demand.

Water Shortage Stages

Stage 1: (Up to 10% Reduction of Normal Water Supply)

VOLUNTARY

Stages 1 & 2 Water Conservation						
<u>Sunday</u>	<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>	<u>Saturday</u>
Odd	No Watering	All	All	All	All	Even

Stage 2: (Up to 20% Reduction of Normal Water Supply)

ENFORCED

Stages 1 & 2 Water Conservation					5 DAY WATERING	
<u>Sunday</u>	<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>	<u>Saturday</u>
Odd	No Watering	All	All	All	All	Even

Stage 3: (Up to 30% Reduction of Normal Water Supply)

Stage 3 Water Conservation					3 DAY WATERING	
<u>Sunday</u>	<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>	<u>Saturday</u>
Odd	No Watering	Even	Odd	Even	Odd	Even

Stage 4: (Up to 40% Reduction of Normal Water Supply)

Stage 4 Water Conservation					2 DAY WATERING	
<u>Sunday</u>	<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>	<u>Saturday</u>
Odd	No Watering	Even	Odd	No Watering	No Watering	Even

Water Shortage Stages

Stage 5: (Up to 50% Reduction of Normal Water Supply)

Stage 5 Water Conservation					1 DAY WATERING	
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
No Watering	No Watering	Even	No Watering	Odd	No Watering	No Watering

Stage 6: (Greater than 50% Reduction of Normal Water Supply)

- No outdoor irrigation of landscaping or vegetation except for food crops.
- Outdoor water use for emergency purposes shall be by permit only, after review and approval by CSPD Director.
- City Parks, schools, and similar establishments may water once per week by permit only, after review and approval by CSPD Director.
- No new water connections shall be permitted.

9. Demand Management Measure Requirements

- Must describe the Foundational DMMs:
 - ✓ Water Waste Prevention Ordinances
 - ✓ Metering
 - Conservation Pricing
 - ✓ Public Education and Outreach
 - ✓ Programs to Assess and Manage Distribution System Real Loss
 - ✓ AWWA Water Loss Audit
 - ✓ Water Conservation Program Coordination and Staffing Support
 - ✓ Other DMMs that have a significant effect on water use
 - ✓ Mandatory Conservation Plan-Watering Schedule
 - ✓ Rebate Program; Turf, Toilet, and Showerheads

Next Steps

- Q&A
- Public Comment Period
- Consider Adoption
 - A. Resolution No. 23-45 Adopting the 2020 Urban Water Management Plan w/Revisions recommended by the DWR.
 - B. Resolution No. 23-46 Adopting the 2020 Water Shortage Contingency Plan
- Submittal to:
 - ✓ Department of Water Resources