



2020 Urban Water Management Plan, 2020 Water Shortage Contingency Plan, & 2015 Addendum

Palmdale Water District

June 14, 2021



PALMDALE WATER DISTRICT
A CENTURY OF SERVICE

Urban Water Management Plan Public Hearing Agenda

- UWMP Act Overview
- Population and Demand Assessment
- SBX7-7 GPCD Targets
- Water Supplies and Demands
- Water Shortage Contingency Planning
- 2015 UWMP Addendum
- Next Steps
- Public Comment Period and Q&A

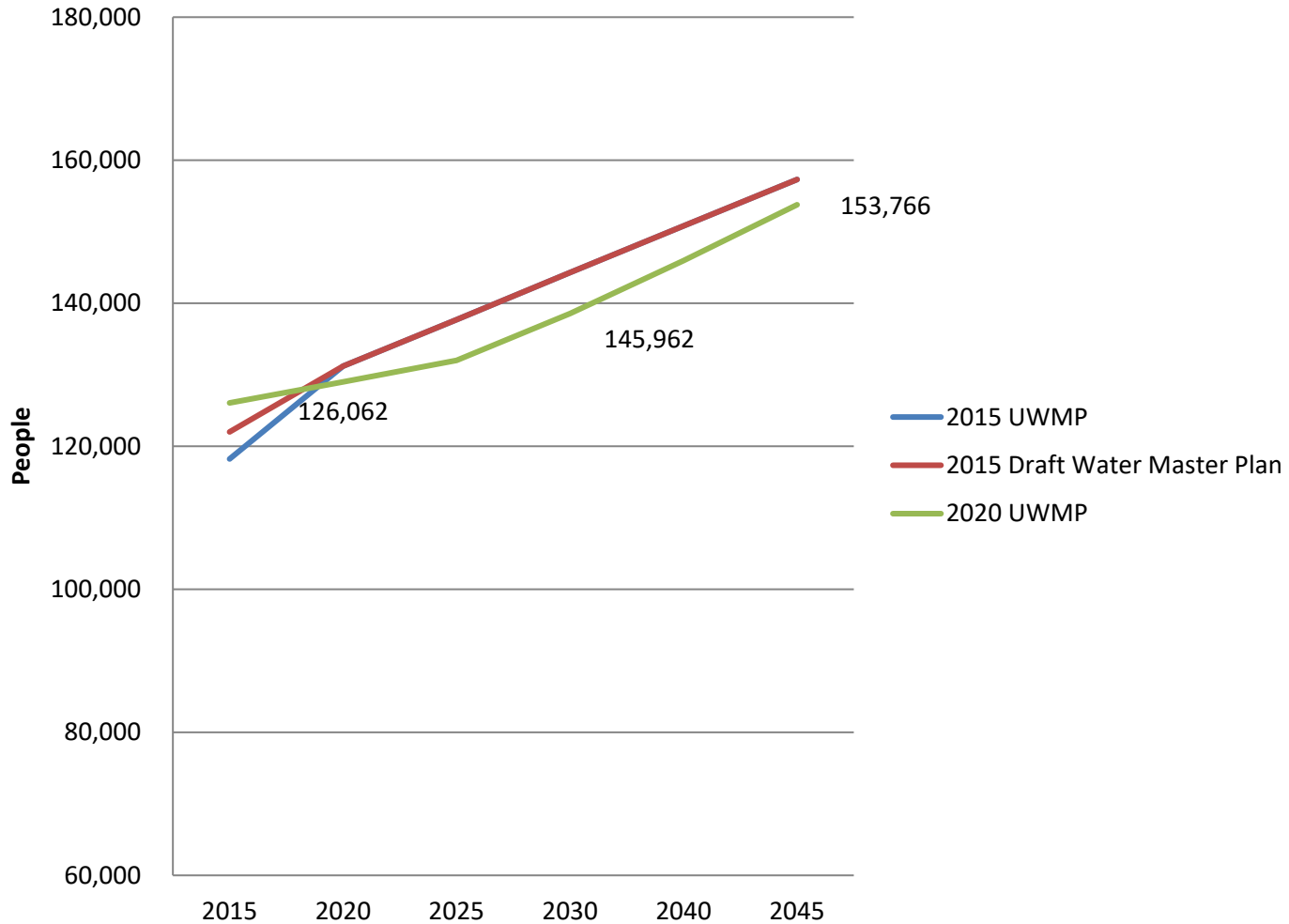
What is an Urban Water Management Plan?

- Plan that provides a general framework for long-term water resource planning (20 to 25 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

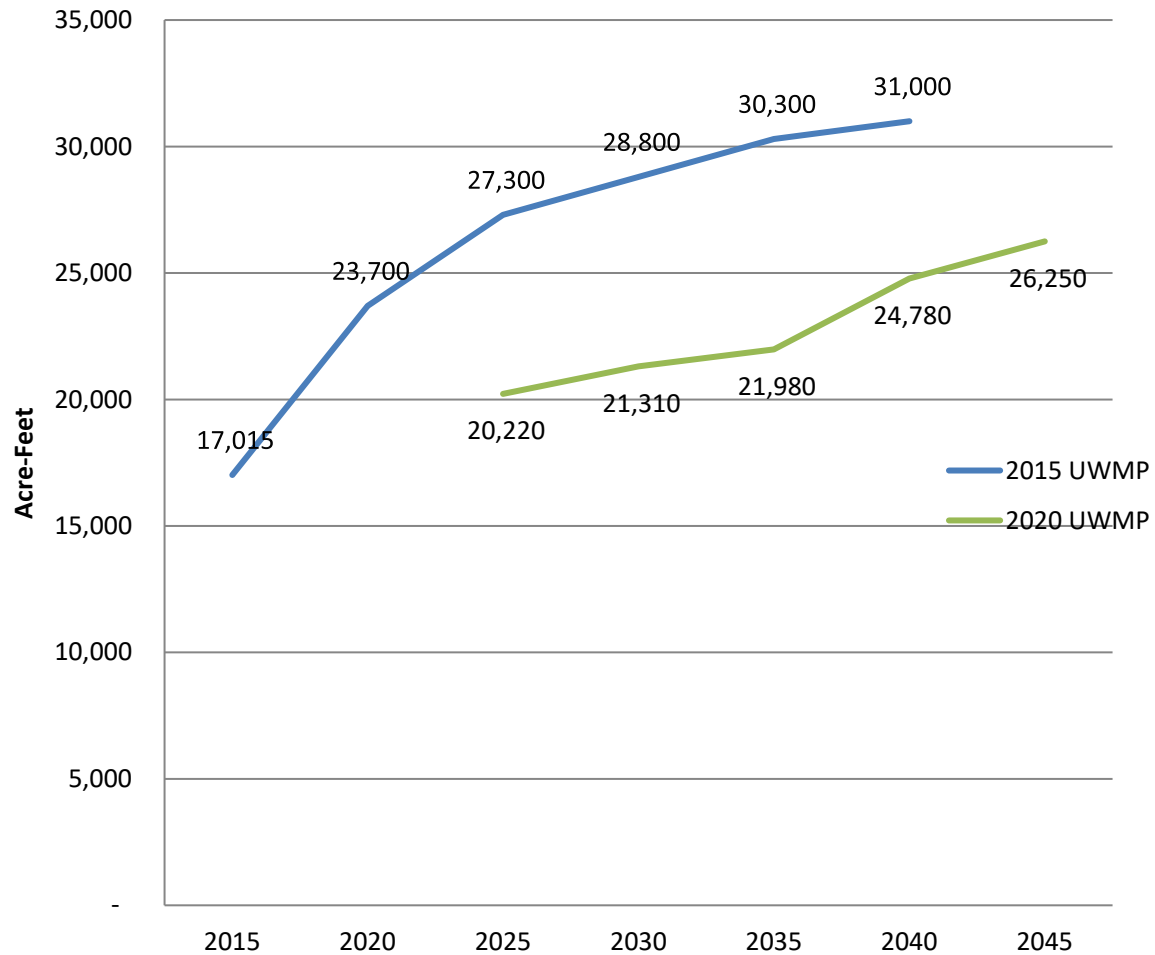
Why are UWMPs Developed?

- 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

Current and Projected Population



Current and Projected Demand



SBX7-7 Compliance and Targets

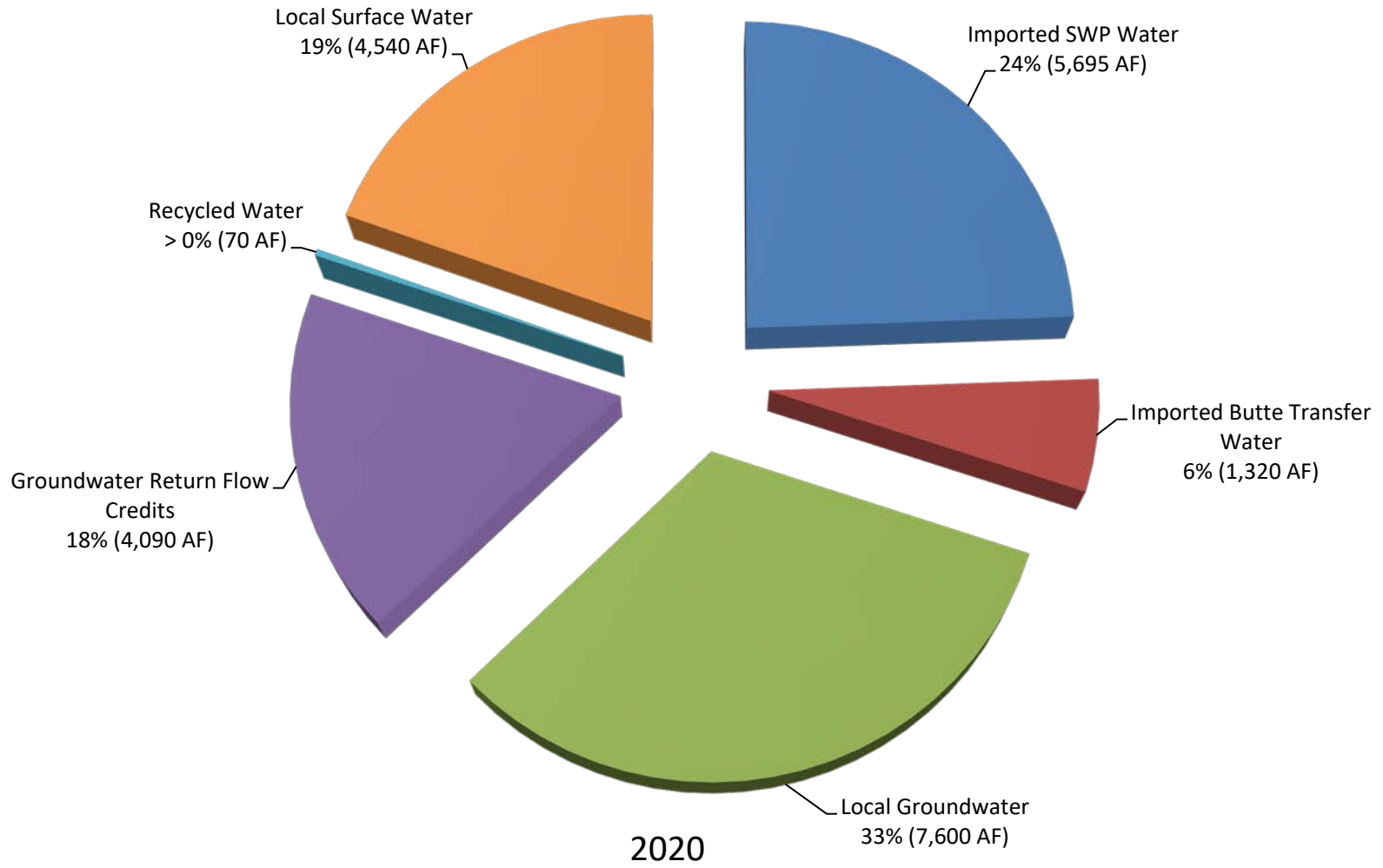
- Water Conservation Act of 2009
 - Requires reduction in per-capita water use of 20% by 2020 from baseline (20x2020)
 - Targets (2015 and 2020) first reported in 2010 UWMP
- 2020 UWMP requires:
 - Compliance with 2020 Target

SBX7-7 Calculations

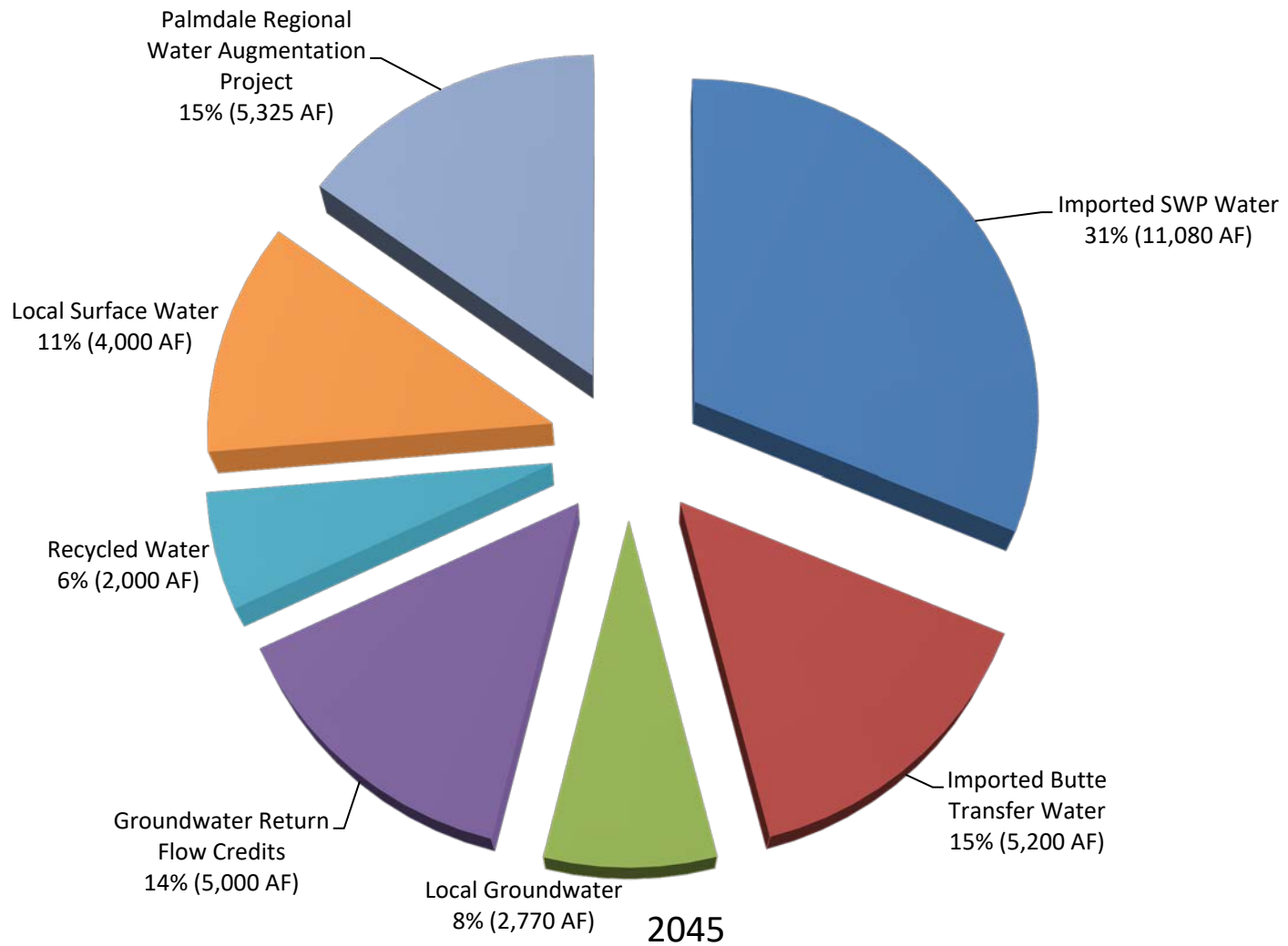
SBX7-7 Category	Water Use (GPCD)
Baseline Water Use	231
2020 Target	185
2020 Actual Water Use	165

The District has met its 2020 Target.

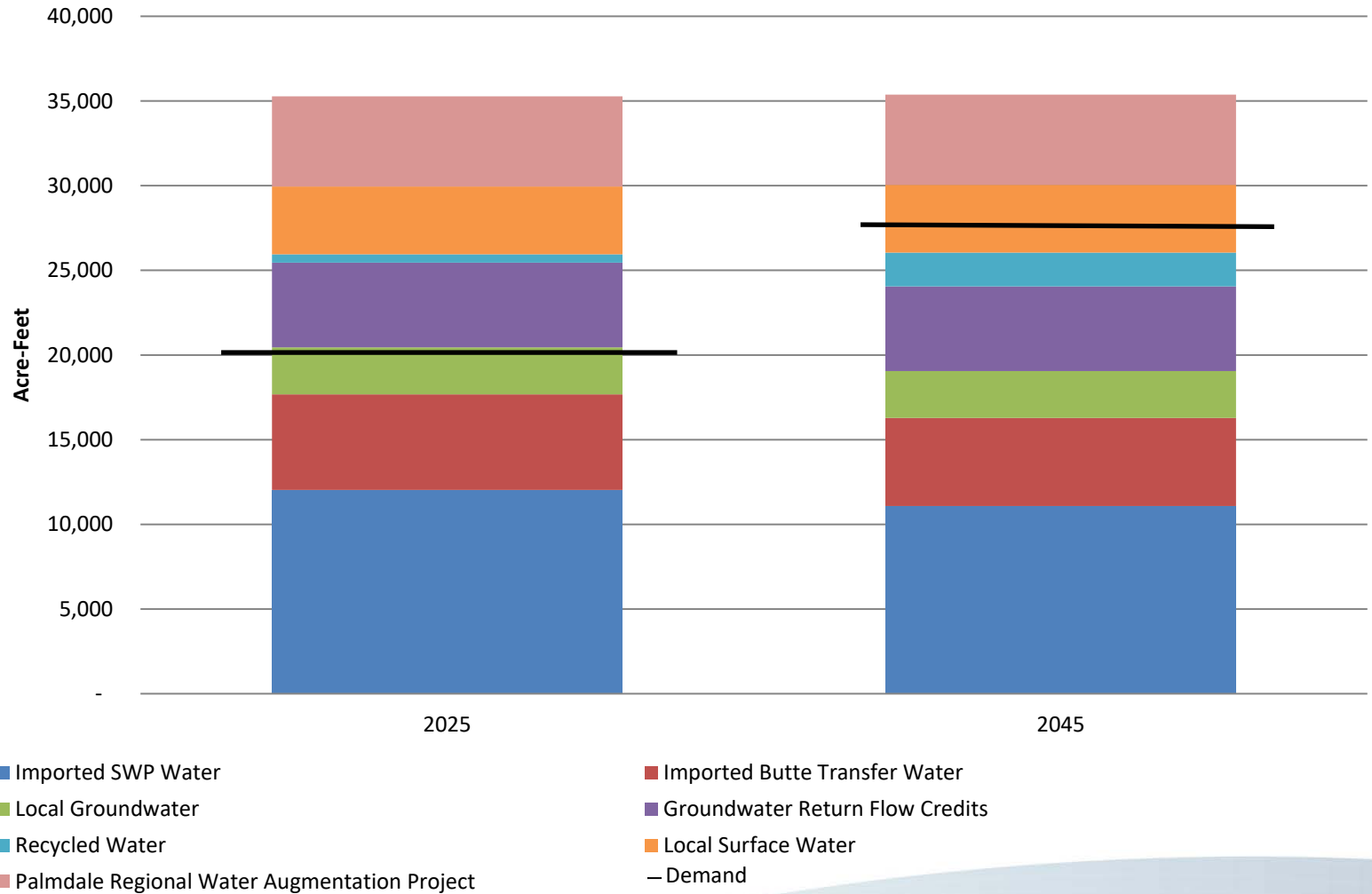
2020 Water Supply Portfolio



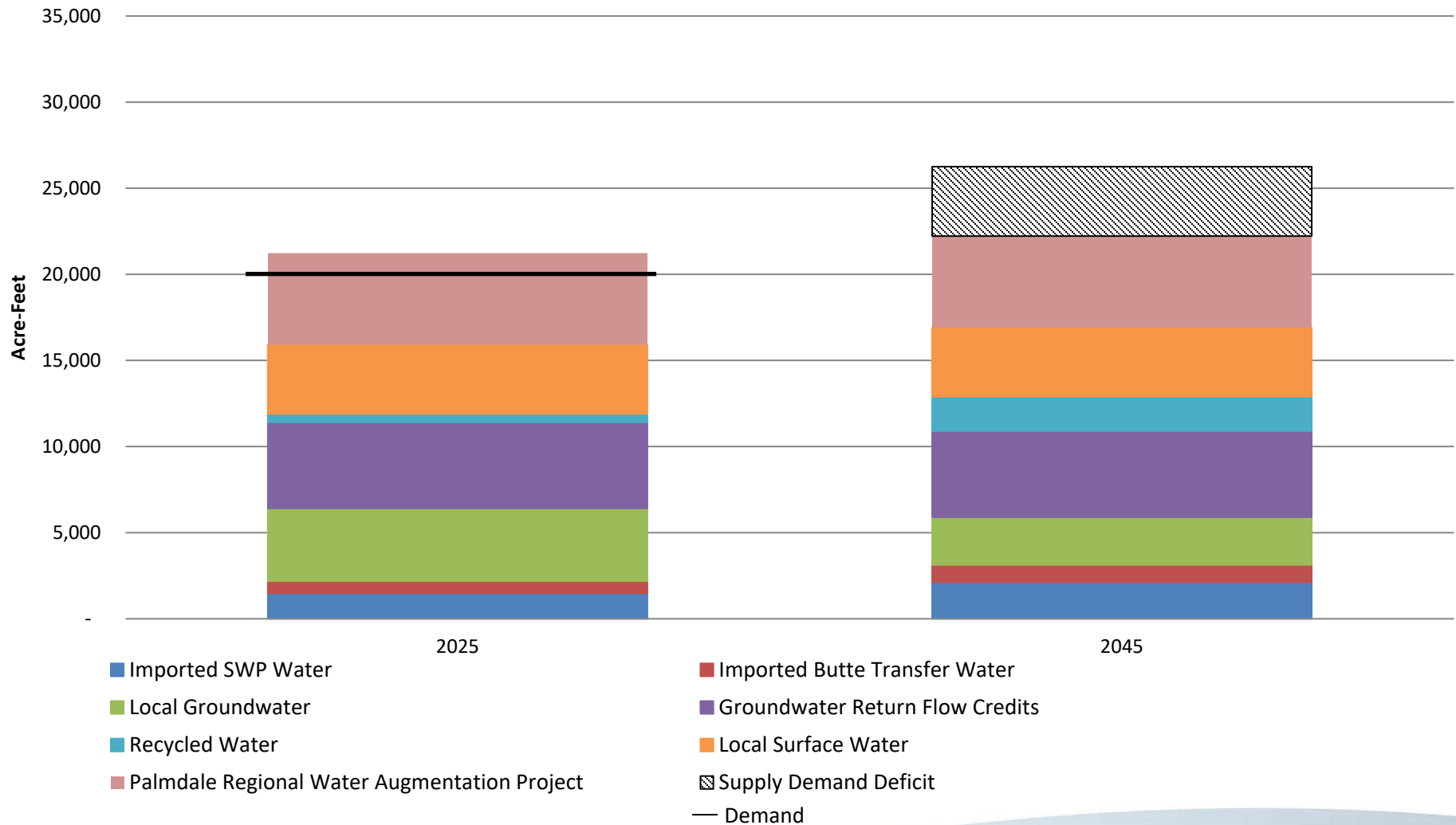
2045 Water Supply Portfolio



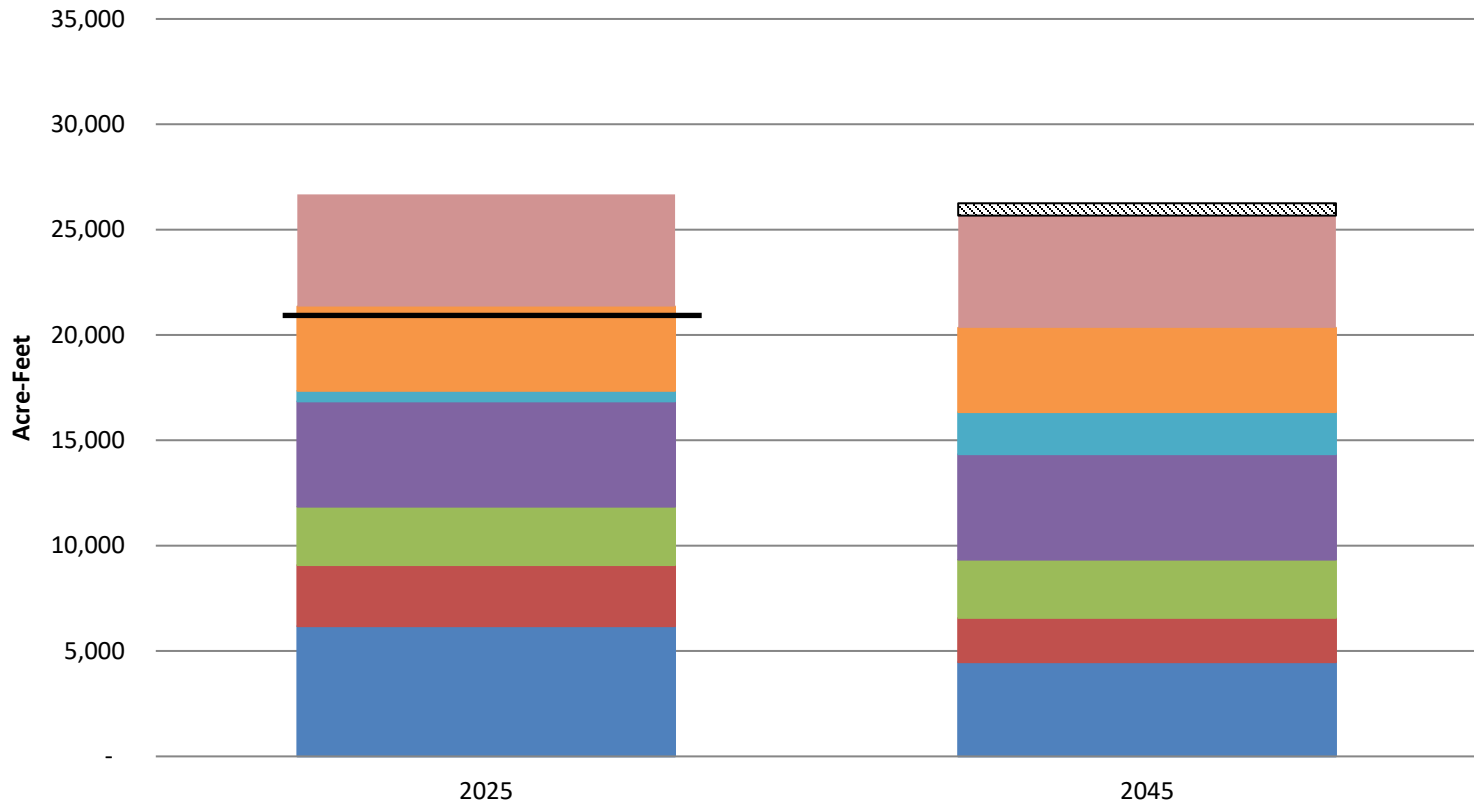
Normal Year Supply and Demand



Single-Dry Year Supply and Demand

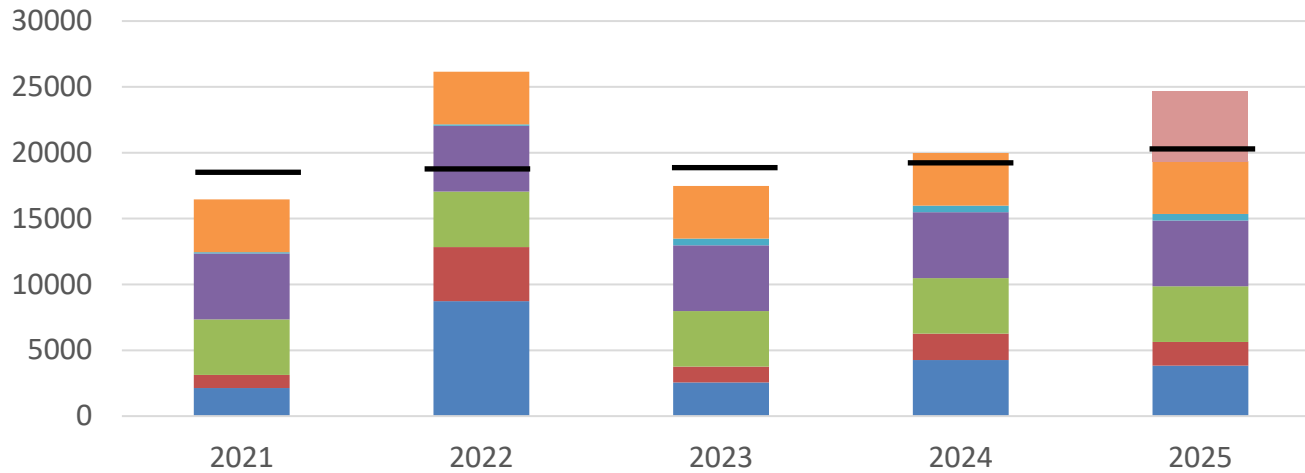


Multiple-Dry Year Supply and Demand



- Imported SWP Water
- Imported Butte Transfer Water
- Local Groundwater
- Groundwater Return Flow Credits
- Recycled Water
- Local Surface Water
- Palmdale Regional Water Augmentation Project
- Supply Demand Deficit
- Demand

Drought Risk Assessment



- Palmdale Regional Water Augmentation Project
 - Recycled Water
 - Local Groundwater
 - Imported SWP Water
- Local Surface Water
 - Groundwater Return Flow Credits
 - Imported Butte Transfer Water
 - Demand

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

Water Shortage Contingency Planning

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

2015 UWMP Addendum

- Sacramento-San Joaquin Delta Reform Act of 2009 requires PWD to reduce reliance on water from the Delta
- Requires state and local public agencies proposing a 'covered action' in the Delta prepare written certification of consistency with the legislation
- Covered actions include importing water from the Delta, transfers, exchanges, including State Water Project supply
- Required for the 2020 UWMP update
- DWR recommends amending the 2015 UWMP or including an addendum in the 2015 UWMP Delta Reliance info from the 2020 UWMP

Next Steps

- Public Comment Period
- Consider Adoption/Amendment
- Submittal to:
 - ✓ Department of Water Resources
 - ✓ State Library
 - ✓ Cities of Lancaster and Palmdale
 - ✓ Los Angeles County Department of Regional Planning
- Q&A

Public Comment Period and Q&A