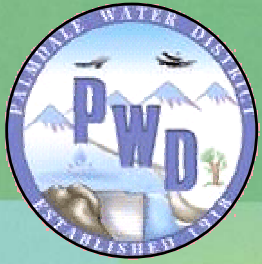


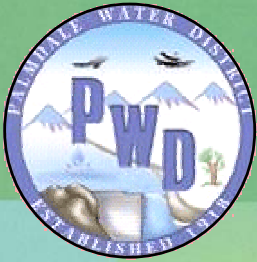
Palmdale Water District

Vision of the Future

July 26, 2006



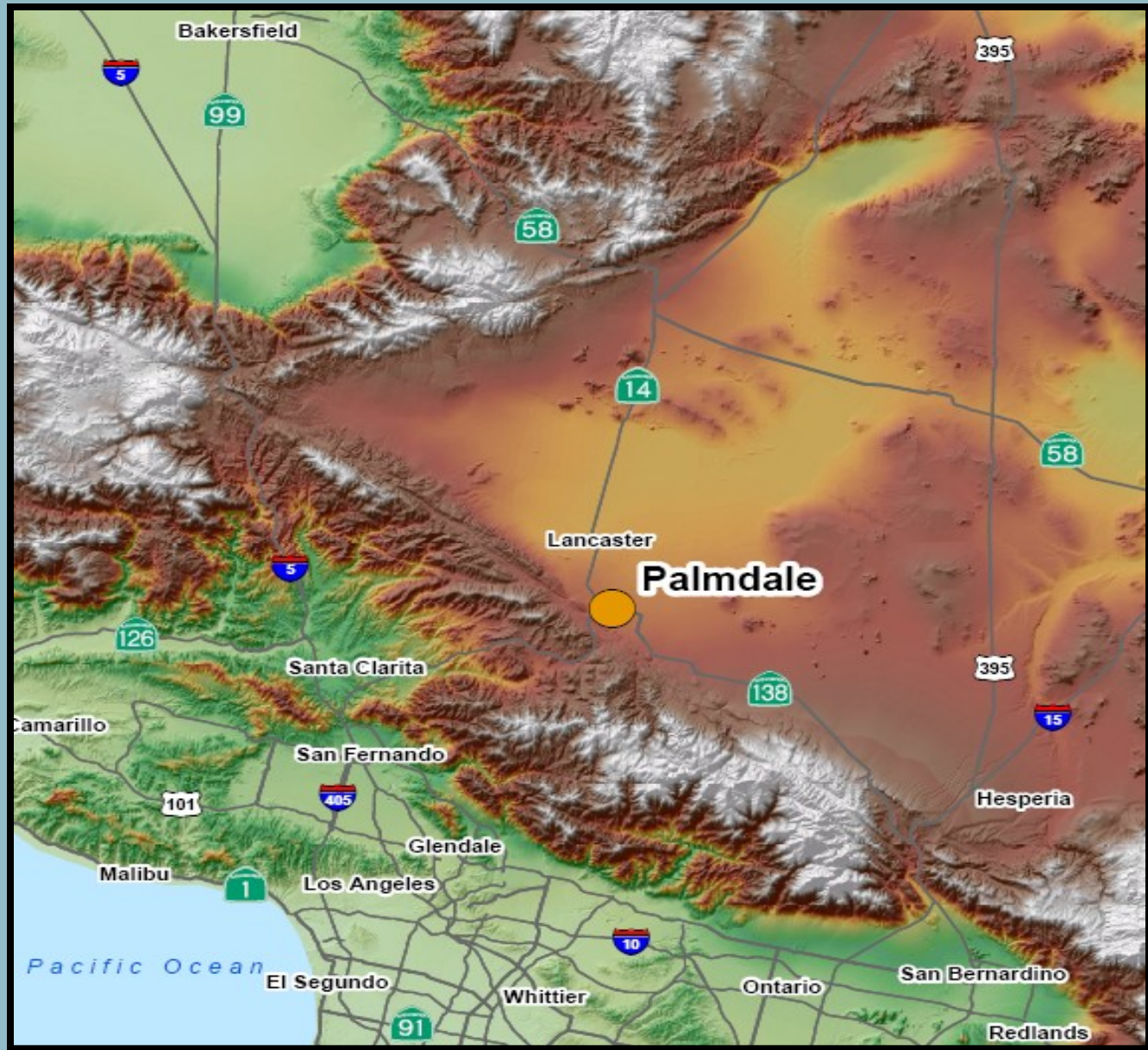
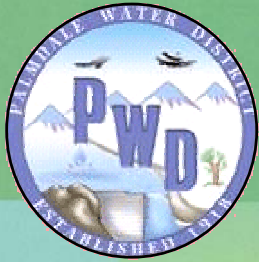
- **PWD Overview & General History**
- **Past Planning Activities**
- **2006 Strategic Plan**
- **2005 Urban Water Management Plan**
- **Questions**

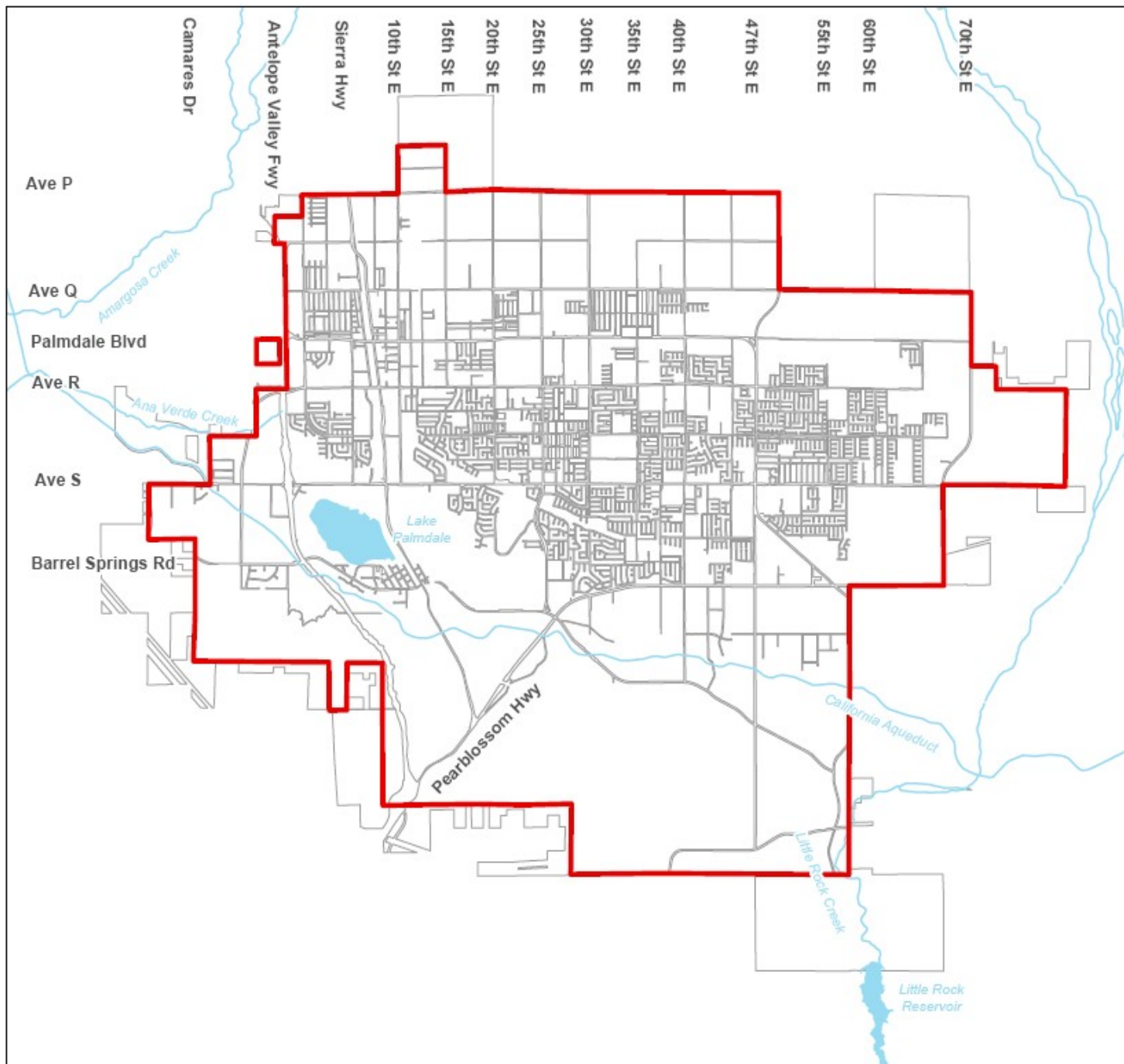


General District Information


- **Located within the Southern Antelope Valley**
- **Encompasses Approximately 140 square miles**
- **Primary service area includes central and southern portions of the City of Palmdale and adjacent unincorporated areas of Los Angeles County**
- **Elevations range from 2,600 to 3,800 ft above sea level**
- **Approximately 110,000 people served through 26,000 service connections**
- **Maximum Day Demand of 42 MGD (2006)**
- **Potable Water Storage of 44 MG (52 MG by Fall, 2006)**
- **Raw Water Storage of 7,750 acre-feet**







Legend

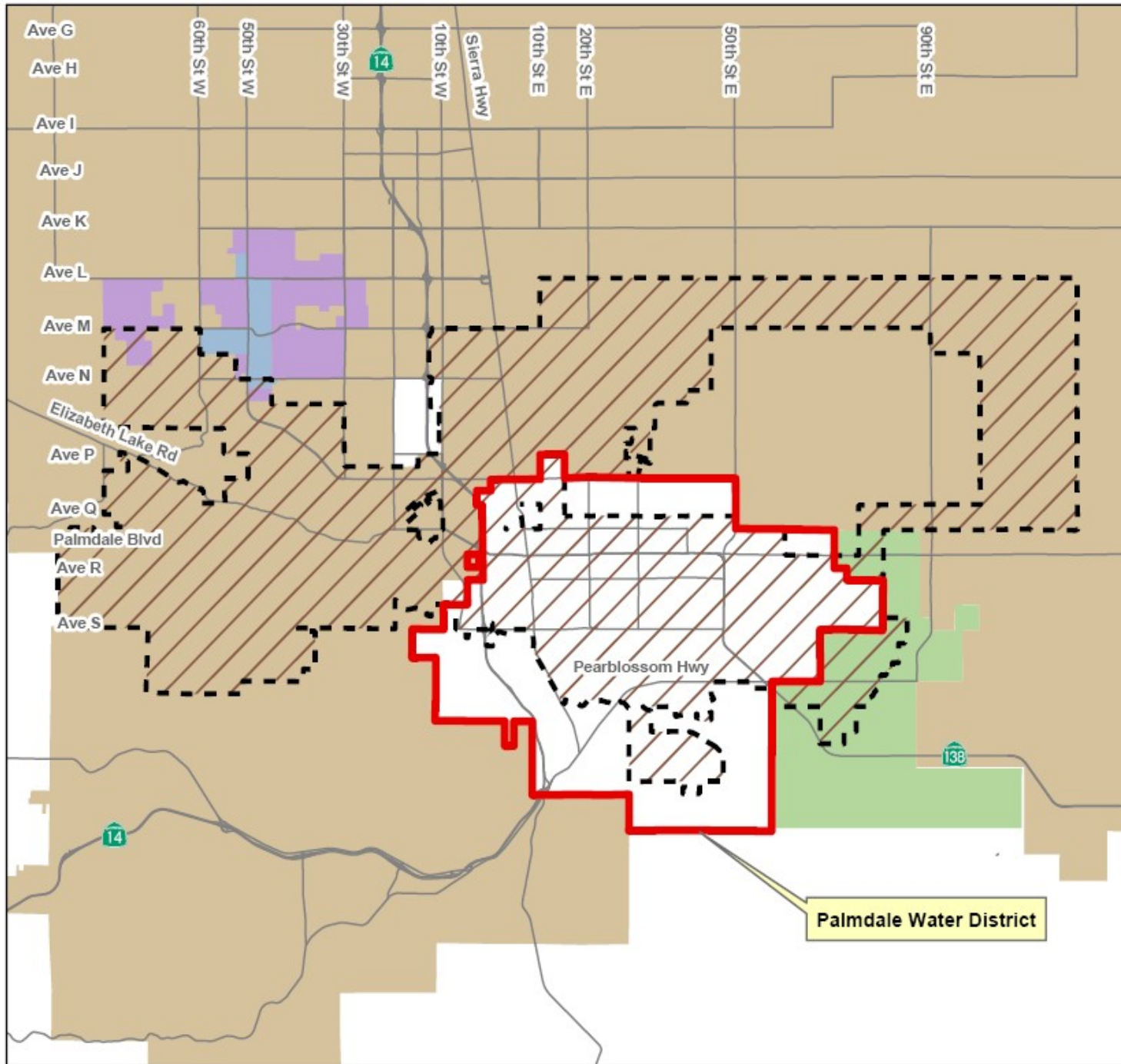
-  Waterways
-  Palmdale Water District Primary Service Boundary



**FIGURE 2.2
SERVICE AREA MAP**

**2005 URBAN WATER
MANAGEMENT PLAN**

PALMDALE WATER DISTRICT



Legend

- City of Palmdale
- Palmdale Water District Primary Service Boundary
- Major Roads

Adjacent Districts

- Antelope Valley - East Kern Water Agency
- Littlerock Creek Irrigation District
- Palm Ranch Irrigation District
- Quartz Hill Water District

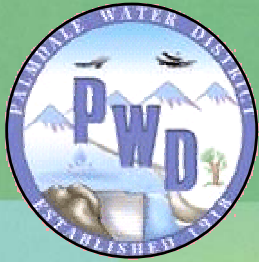
Miles
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**FIGURE 2.3
PALMDALE BOUNDARIES**

**2005 URBAN WATER
MANAGEMENT PLAN**

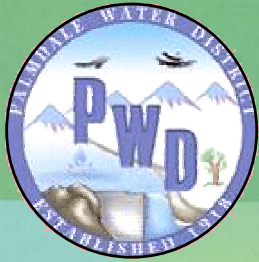
PALMDALE WATER DISTRICT



General History

- Formed as private irrigation company in 1880's
- Constructed first Palmdale Lake Dam, Littlerock Creek Diversion structures, and canals
- Formed as a public agency in 1918 by a vote of the people and partnered with Littlerock Creek Irrigation District to construct Littlerock Dam
- Continued serving both agriculture and urban customers through early 1960's when agricultural demand ended
- Became a State Water Project Contractor in early 1960's for future water supply
- Responded to increasing urban demands through facility planning and implementation

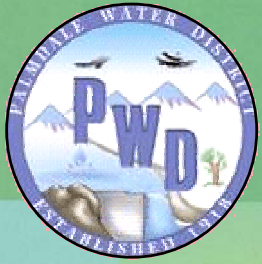




Historic Planning Overview

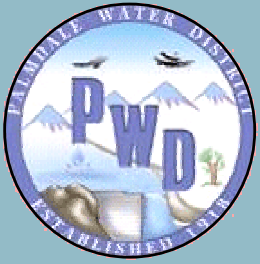
- 1982 – Water System Master Plan
- 1989 – Water System Master Plan Update
- 1990 – Urban Water Management Plan
- 1995 – Urban Water Management Plan
- 1996 – Water System Master Plan
- 2000 – Urban Water Management Plan
- 2001 – Water System Master Plan Update
- 2005 – Urban Water Management Plan
- 2006 – Five-Year Strategic Plan
- *2006-2007 – Water System Master Plan*





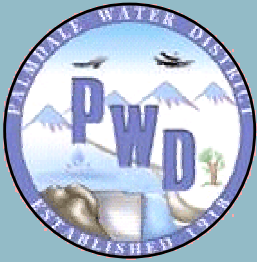
2006 Strategic Plan

Adopted February, 2006



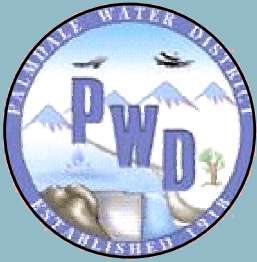
Mission Statement

The Mission of the Palmdale Water District is to provide high quality water to our current and future customers at a reasonable cost.



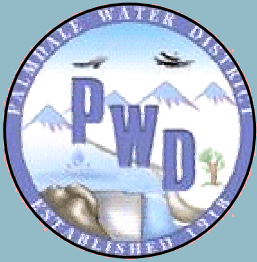
Vision Statement

The PWD will strive for excellence in providing high quality, reasonably priced water in a growing Antelope Valley by being a strong advocate for our customers in local water issues, public education, asset management, water conservation, planning and securing additional water supplies, continuing our commitment to operate efficiently with the help of emerging technologies, challenging, motivating, and rewarding our employees and offering premium customer service in all we do.



Core Values

- *Continuous Improvement*
 - *Efficiency*
 - *Fiscal Responsibility*
- *Natural Resource Management*
 - *Customer Service*
 - *Water Conservation*
- *Safe, Productive & Rewarding Working Environment*
 - *Integrity*
 - *Stakeholder Trust*

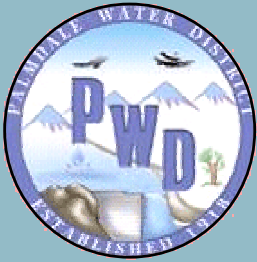


Strategic Elements and Goals

7 STRATEGIC ELEMENTS

Regulatory Compliance
Natural Resources Management
Infrastructure Management
Personnel Management
Administrative Management
Financial Management
Customer Service

Over 30 Specific Goals based on these Elements



Strategic Element

Strategic Goals

1.0 Regulatory Compliance

- 1.1 Meet stage 2 DBPR maximum contamination levels (MCL's)
- 1.2 Comply with Initial Distribution System Evaluation (IDSE) requirements
- 1.3 Obtain CalFed Bay Delta "Water Conservation Certification"
- 1.4 Develop and prepare an Urban Water Management Plan
- 1.5 Update and maintain the Emergency Response Plan (ERP)
- 1.6 Monitor and participate in emerging regulations

2.0 Natural Resources Management

- 2.1 Ensure adequate water supplies for existing and future customers
- 2.2 Improve reliability of groundwater
- 2.3 Develop recycled water as a water source
- 2.4 Use renewable energy sources for all new facilities as appropriate

3.0 Infrastructure Management

- 3.1 Plan for improvements and expansion of the existing water delivery infrastructure
- 3.2 Develop a headquarters/ maintenance yard facilities master plan
- 3.3 Develop a preventive maintenance program
- 3.4 Maintain Littlerock reservoir storage capacity
- 3.5 Improve the security of PWD facilities

4.0 Personnel Management

- 4.1 Develop a broad based employee communication plan
- 4.2 Design and launch a new employee orientation
- 4.3 Review and formalize hiring, interviewing and selection procedures
- 4.4 Perform annual compensation reviews
- 4.5 Design a succession plan for the entire district
- 4.6 Design a workplace health implementation program
- 4.7 Design and implement a staffing master plan
- 4.8 Develop a function specific employee training plan and training policy

5.0 Administrative Management

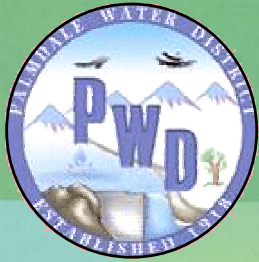
- 5.1 Maintain existing Employee Manual
- 5.2 Maintain existing Rules and Regulations Manual
- 5.3 Introduce a Board "Code of Conduct" manual or policy section
- 5.4 Perform comprehensive organizational structure review
- 5.5 Perform regular maintenance on District job descriptions

6.0 Financial Management

- 6.1 Integrate strategic planning process with annual budgeting
- 6.2 Provide proper communication for the budget
- 6.3 Institute revenue plan
- 6.4 Establish a reserve policy/guidelines
- 6.5 Review and update CIP/water resource fee

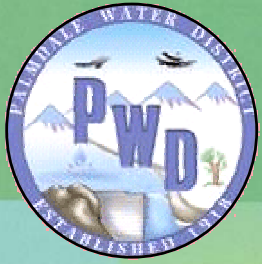
7.0 Customer Service

- 7.1 Provide customer service training to appropriate District employees
- 7.2 Design and implement customer communications plan
- 7.3 Conduct customer survey



2005 Urban Water Management Plan

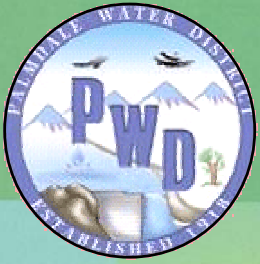
December 12, 2005



Outline

- **Purpose**
- **Agency Coordination**
- **Historical and Project Population**
- **Water Supply Sources**
- **Historical Water Production**
- **Projected Demand**
- **Future Water Supply Sources**
- **Demand Management Measures**
- **Supply & Demand Comparison**



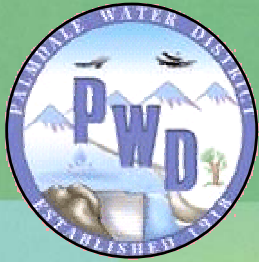


Purpose of UWMP

The purpose of the Urban Water Management Plan (UWMP) is to:

- Maintain efficient use of urban water supplies
- Continue to promote conservation programs and policies
- Ensure that sufficient water supplies are available for future beneficial use
- Provide a mechanism for response during water drought conditions



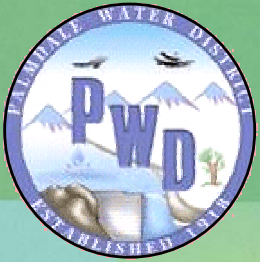


Agency Coordination

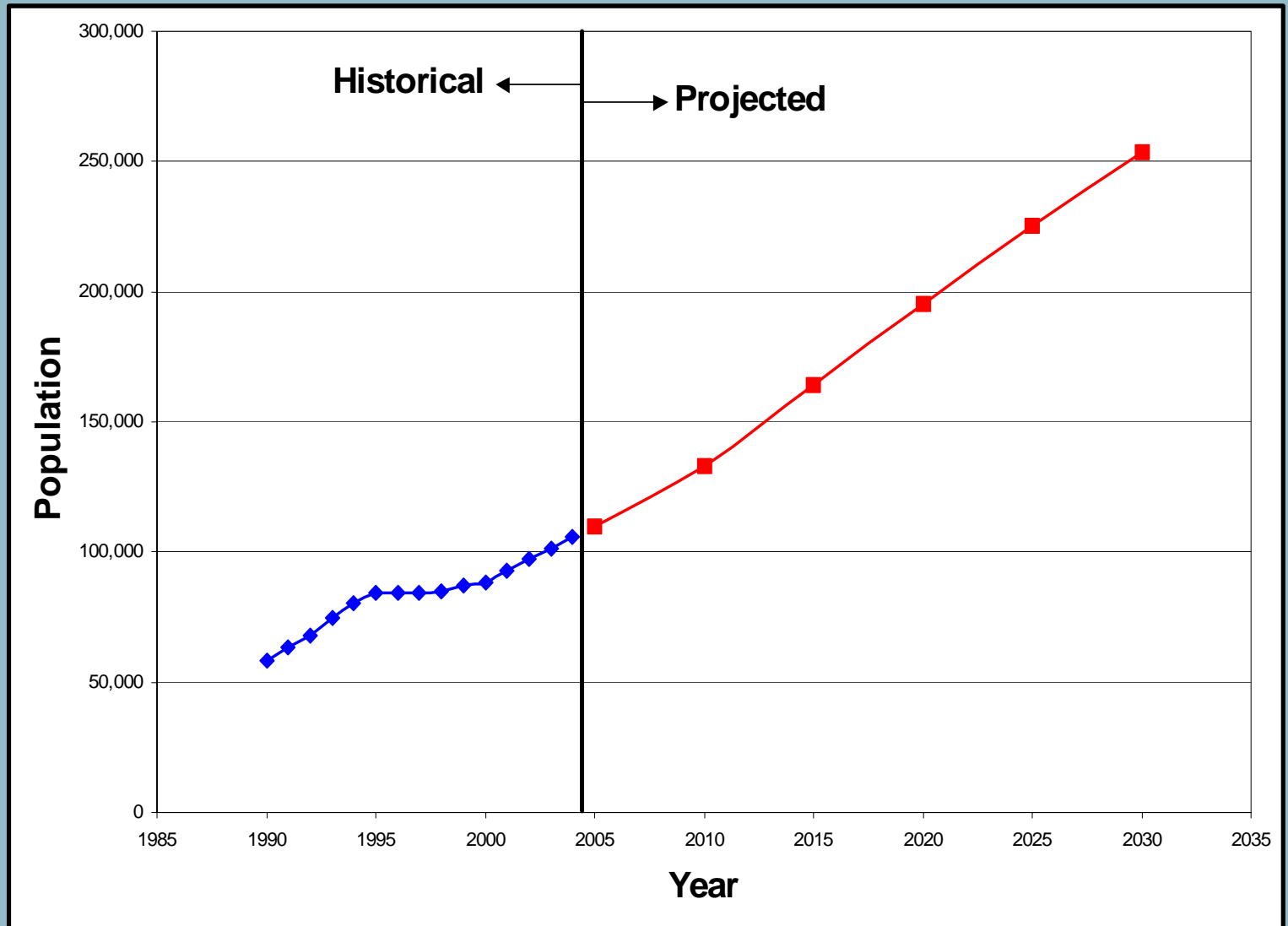
The following agencies were notified and provided access to copies of the Public Review Document of the District's 2005 UWMP:

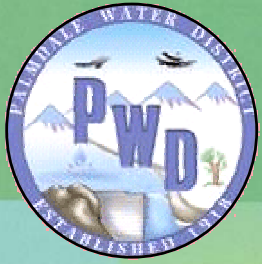
- City of Palmdale
- Los Angeles County Department of Regional Planning
- Littlerock Creek Irrigation District
- Los Angeles County Waterworks District
- LA County Farm Bureau
- Building Industry Association of Southern California
- Los Angeles County Sanitation Districts
- Antelope Valley – East Kern Water Agency
- Quartz Hill Water District
- Rosamond Community Services District
- Los Angeles Department of Airports





Historical & Projected Population





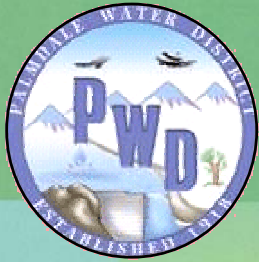
Water Supply Sources

The District currently receives water from three sources:

- Littlerock Creek Dam & Reservoir
- State Water Project
- Groundwater

This set of water supplies is unique in the Antelope Valley for the purposes of preparing an Urban Water Management Plan.

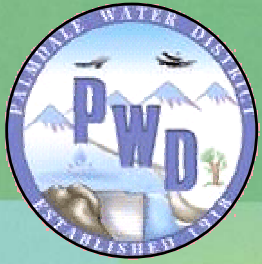




Littlerock Creek Dam & Reservoir

- Runoff from Littlerock and Santiago Canyons in the Angeles National Forest is intercepted by the Littlerock Creek Dam & Reservoir
- Maximum Diversion – 5,500 acre-feet for both PWD and LCID.
- LCID is currently entitled to 1,000 acre-feet or 25% of the yield, whichever is less.
- Raw Water is conveyed to Palmdale Lake for treatment and use via the Palmdale Ditch

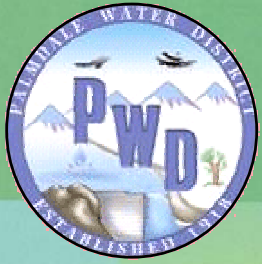




State Water Project

- Imports water from Northern California to Southern California via the California Aqueduct
- Current Table “A” allotment – 21,300 acre-feet
- Water is conveyed to Palmdale Lake via a pipeline from the California Aqueduct





Groundwater

- The District operates 25 active wells scattered throughout the service area
- Basin is not yet adjudicated, but is undergoing litigation
- Groundwater is chlorinated prior to being placed in the distribution system

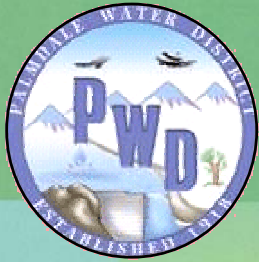


Historical Water Production

Deliveries from the SWP began in 1985. Since then, approximately 40 to 50% of the water delivered is groundwater; the remaining is surface water (both local and imported).

The District goal is to meet a minimum of approximately 60% of its average demand with surface water.

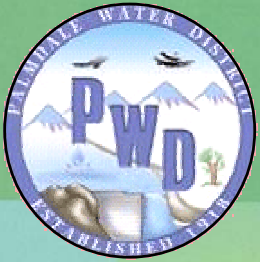




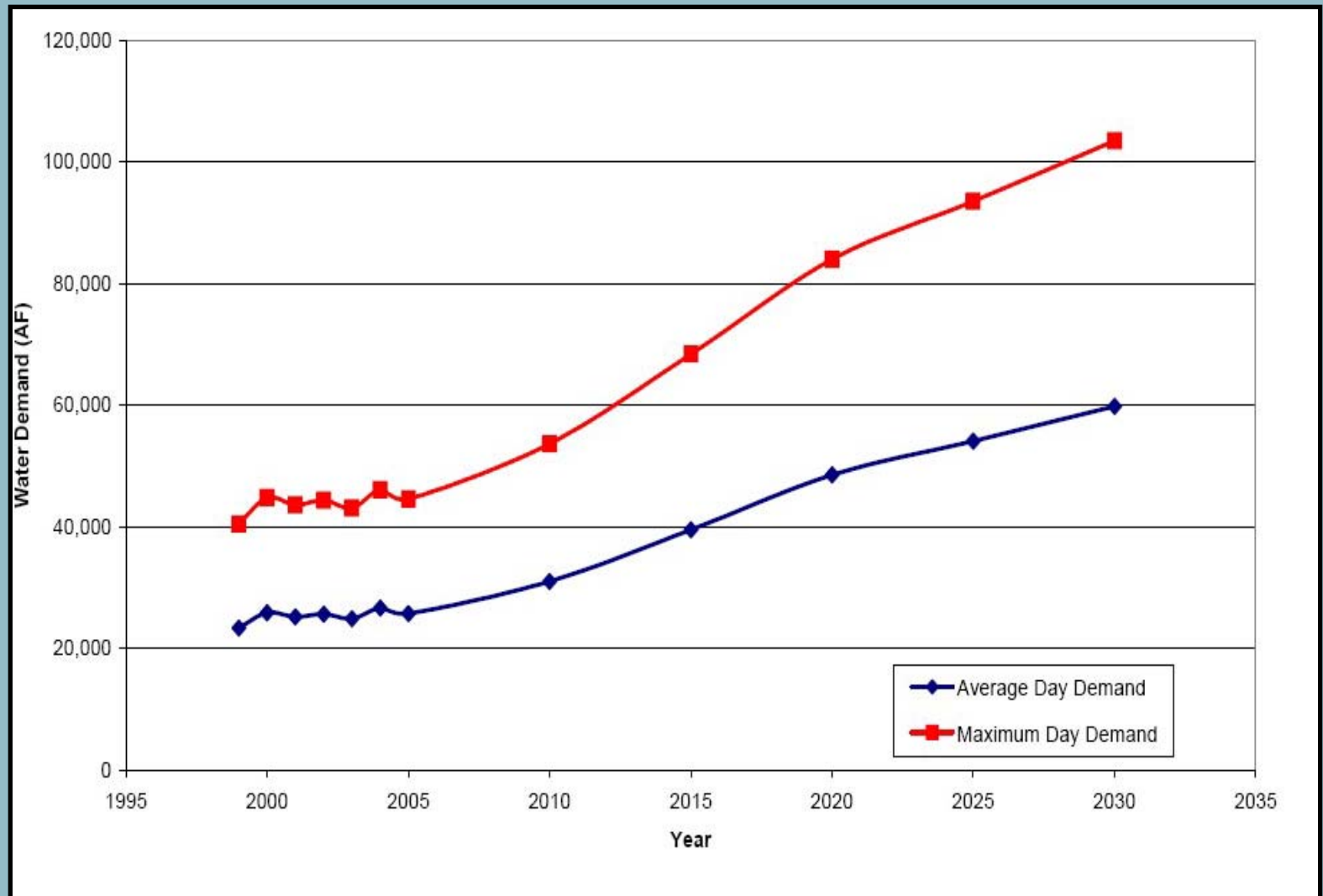
Projected Demand

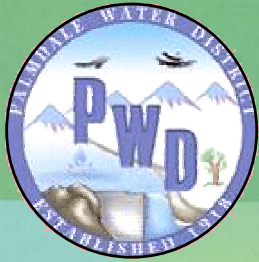
The District's future water requirements were estimated based on projected development. Based on these projections, it is estimated the District's 2030 Average Day Demand and Maximum Day Demand will approach 53.4 MGD (59,837 af/yr) and 92.4 MGD (103,518 af/yr), respectively.





Historical & Projected Demand

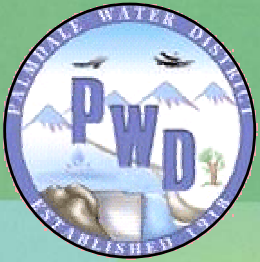




Future Water Supply Sources

- **Long Term Reliability and Supply Water Transfers** – Transfers to increase SWP reliability and transfers to provide additional supply for storage, blending, etc.
- **Additional SWP Table “A”** – Increase supply and California Aqueduct capacity from current 21,300 a-f
- **Recycled Water**
 - Irrigation - The District estimates 3,873 AF will be used for irrigation when tertiary treated effluent is available for distribution. The District is working with other local agencies on the planning of a community-wide recycled water backbone system
 - Permitted Groundwater Recharge - The District estimates that beginning in 2015, 10,000 AF of recycled water will be used to replenish the aquifer. This will allow the District to pump additional groundwater
- **Demand Management or Conservation**

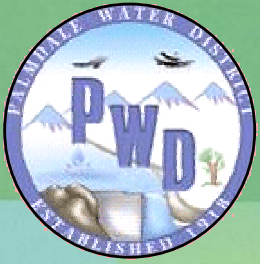




Demand Management Measures

Demand Management Measure	Implemented	Not Implemented/ Planning to Implement
DMM1 – Water Survey Programs	≤	
DMM 2 – Residential Plumbing Retrofit	≤	
DMM 3 – Water System Audits	≤	
DMM 4 – Metering with Commodity Rates	≤	
DMM 5 – Landscape Irrigation Programs	≤	
DMM 6 – Washing Machine Rebate Program		≤
DMM 7- Public Information	≤	

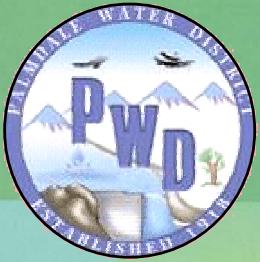




Demand Management Measures

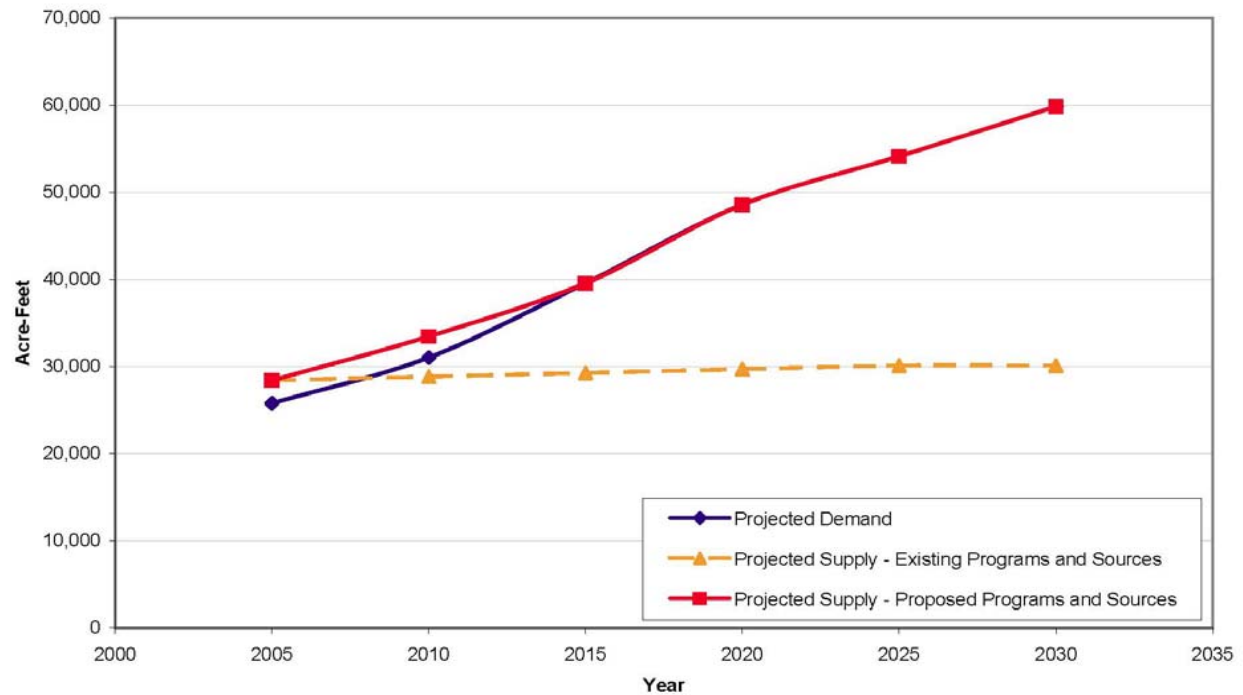
Demand Management Measure	Implemented	Not Implemented/Planning to Implement
DMM 8 – School Education	≤	
DMM 9 – Commercial, Industrial & Institutional Programs	≤	
DMM 10 – Wholesale Agency Programs	Not Applicable	Not Applicable
DMM 11 – Conservation Pricing	≤	
DMM 12 - Water Conservation Coordinator	≤	
DMM 13 – Water Waste Prohibition	≤	
DMM 14 – Ultra Low Flush Toilet Replacement		≤

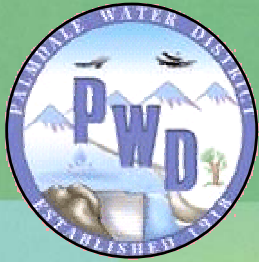




Supply & Demand Comparison

Figure 6.1
Projected Supply and Demand Comparison





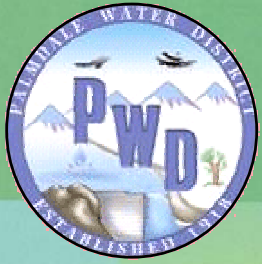
Palmdale Water District

2006 Strategic Plan

2005 Urban Water Management Plan

Available at www.palmdalewater.org





Questions ?

