

El Paso's Diversified Water Resources Portfolio

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Public Service Board

- The PSB sets policy, adopts fiscal budgets (\$266 million for FY2014), rates and fees, and approves an annual strategic plan for 4 utilities:
 - Water
 - Wastewater
 - Stormwater
 - Reclaimed Water
- EPWU provides water service to 95 percent of El Paso County (800,000+ residents)

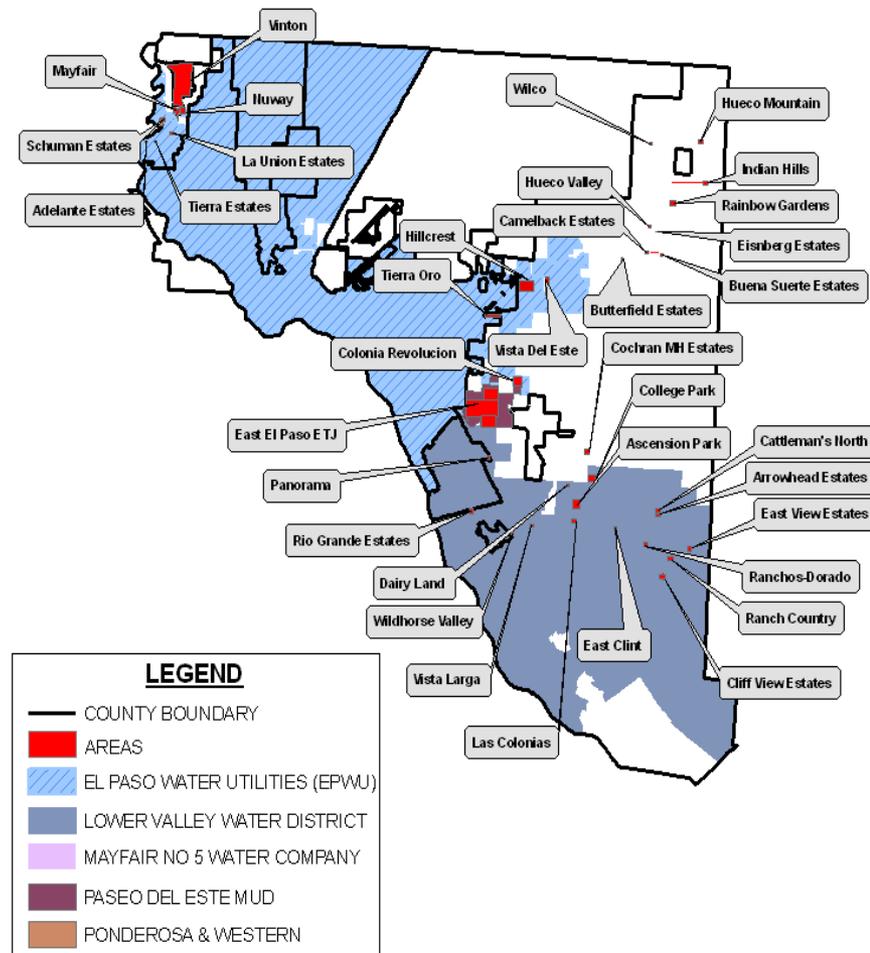


Water Utilities Role

- Continue to restructure and consider strategic, political, and regional issues
- Need to improve on ways to achieve greater consumer confidence
- Communication and public involvement programs have become a bigger part of overall budget(s)
- Diversification of water and energy resources is an essential planning objective
- Need to capitalize on technology

EPWU Provides Water Service to Outlying Areas & Assists in Managing Projects

**EP County - Unserved Colonias By Public Water System
(Less Than 5,000 people)**



Land Management

PSB owns the following for water rights:

- 25,000 acres in El Paso County
- 75,000 acres outside El Paso County (Texas)
- 880 acres in New Mexico



Water Resources



Regional Water Resources

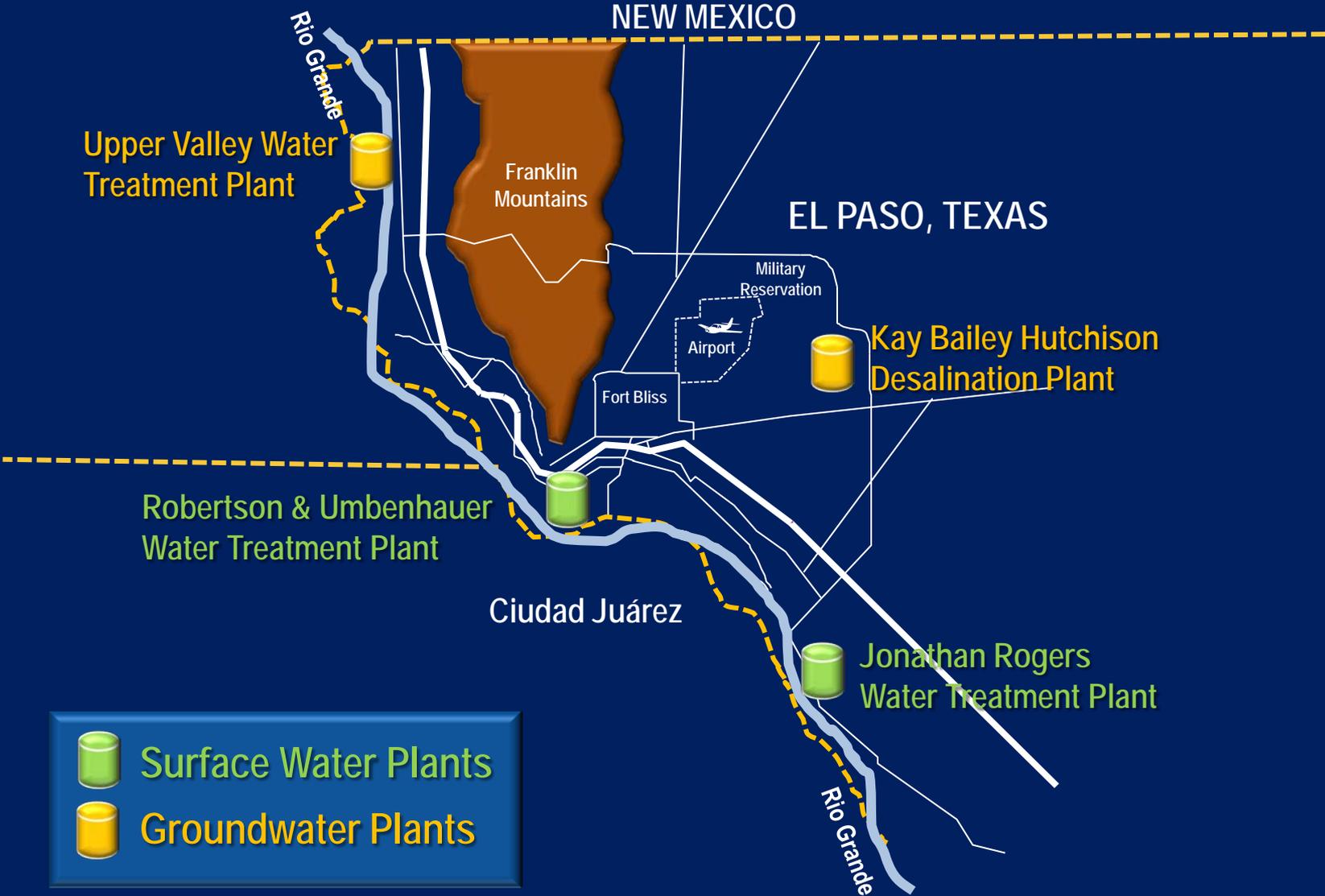


El Paso's Diversified Resources

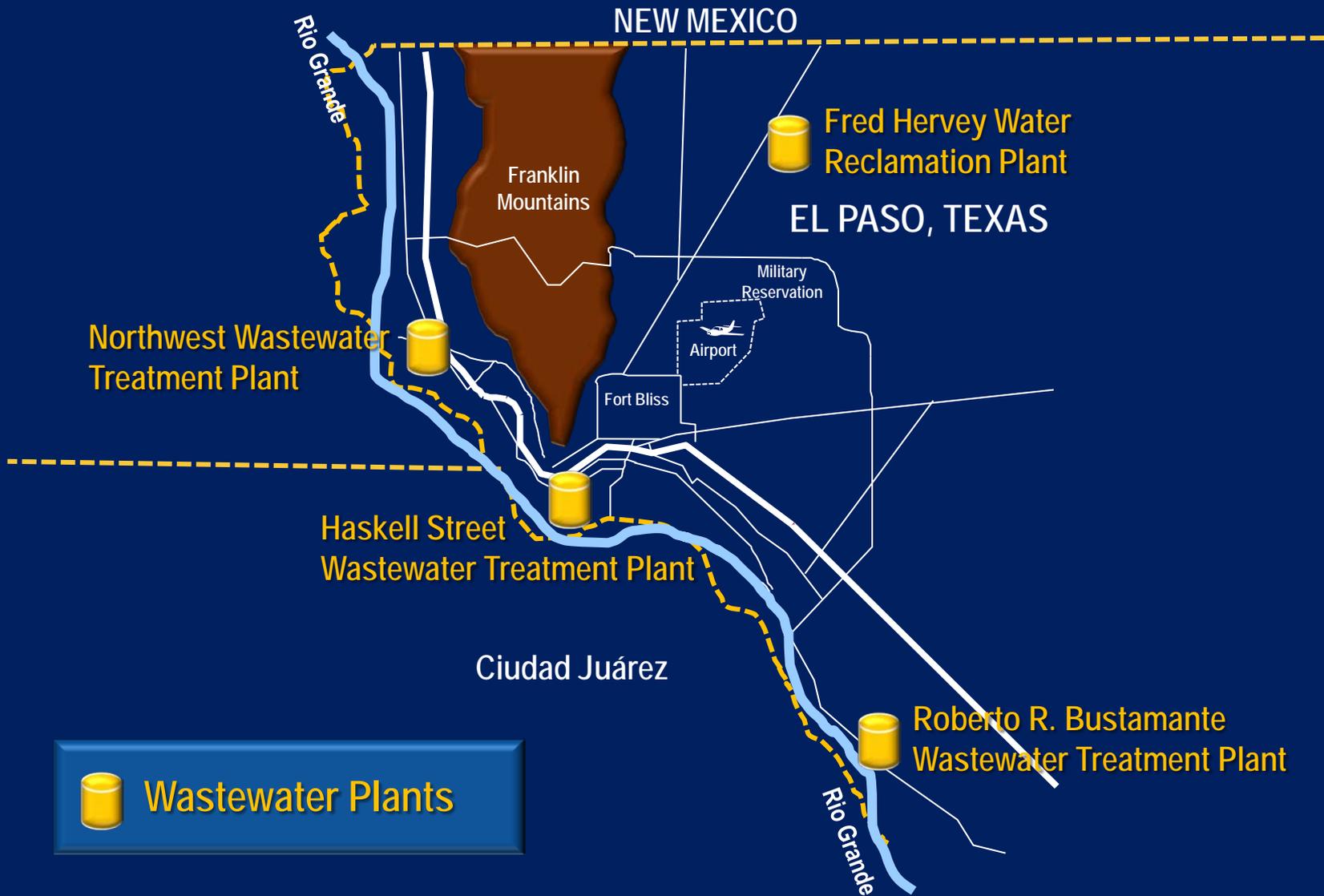
50-Year Water Resource Management Plan adopted in 1991



Water Treatment Plants



Wastewater Treatment Plants



EPWU Challenges

- Drought
- Growth
- \$800 million in capital improvement needs over the next 10 years
- Financial Obligations
- Energy
- Personnel – succession planning



Recent Drought Situation

- EPWU received reduced river water allocation
 - **6,500 AF** compared to usual 70,000 AF

(The lowest release since the inception of the project in 1906)





Drought History

1997

Only 3 of the past 16 years has runoff into Elephant Butte been above average

2005

2008

1998

1999

2000

2001

2002

2003

2004

2006

2007

2009

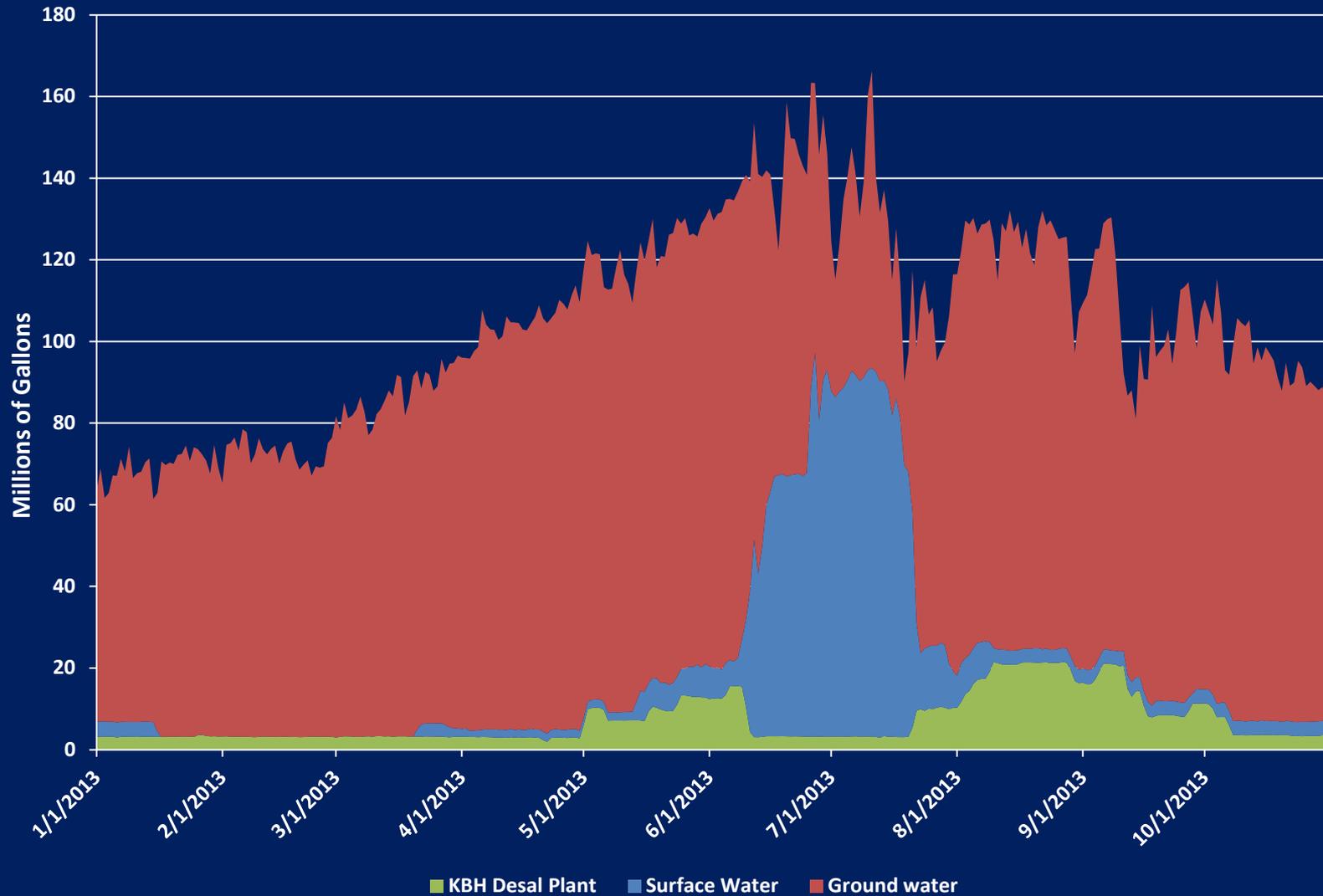
2010

2011

2012



2013 Water Production



2013-2014 Projects to Enhance Groundwater Delivery



- Implementation of water main projects to carry groundwater to central and downtown areas that heavily rely on river water
- New Wells (8 wells/2013 & 9 wells/2014)
- Potable reuse planning

Population

- Ending in 2013, Fort Bliss realized an increase of over 28,000 active duty personnel (30,000 additional family members) - the largest net gain from any military installation in America.
- The estimated population within the El Paso region is expected to more than double within the next 20 years.



Energy

Energy Needs

- EPWU has joined staff of Federal lawmakers to identify and promote greater energy efficiencies (energy/water nexus).
 - Resource recovery
- EPWU's Energy needs to operate facilities continue to increase.
 - Total energy costs approximately \$14 million/year.

Conservation

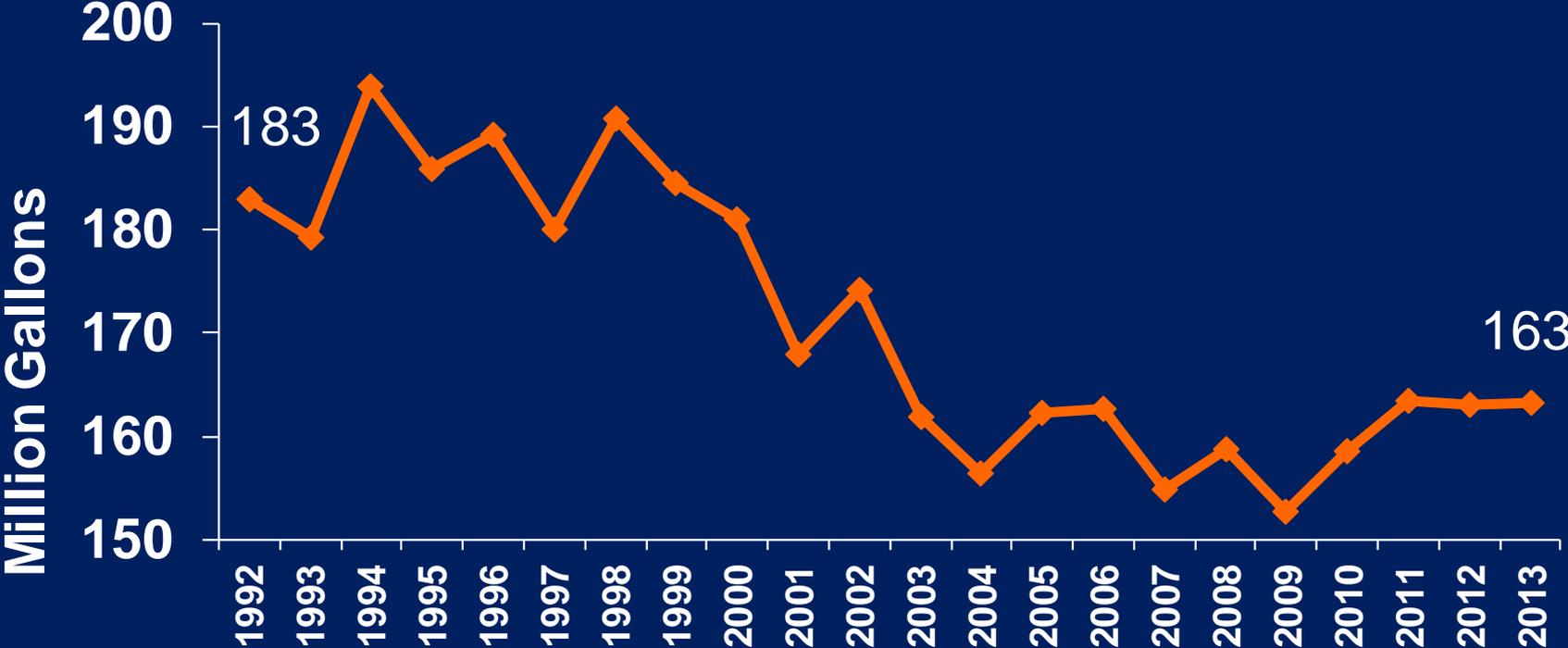


Water Conservation Efforts



- 1991 – Water Conservation Ordinance
- Block Rate Structure
- Incentives/Rebates
- Education

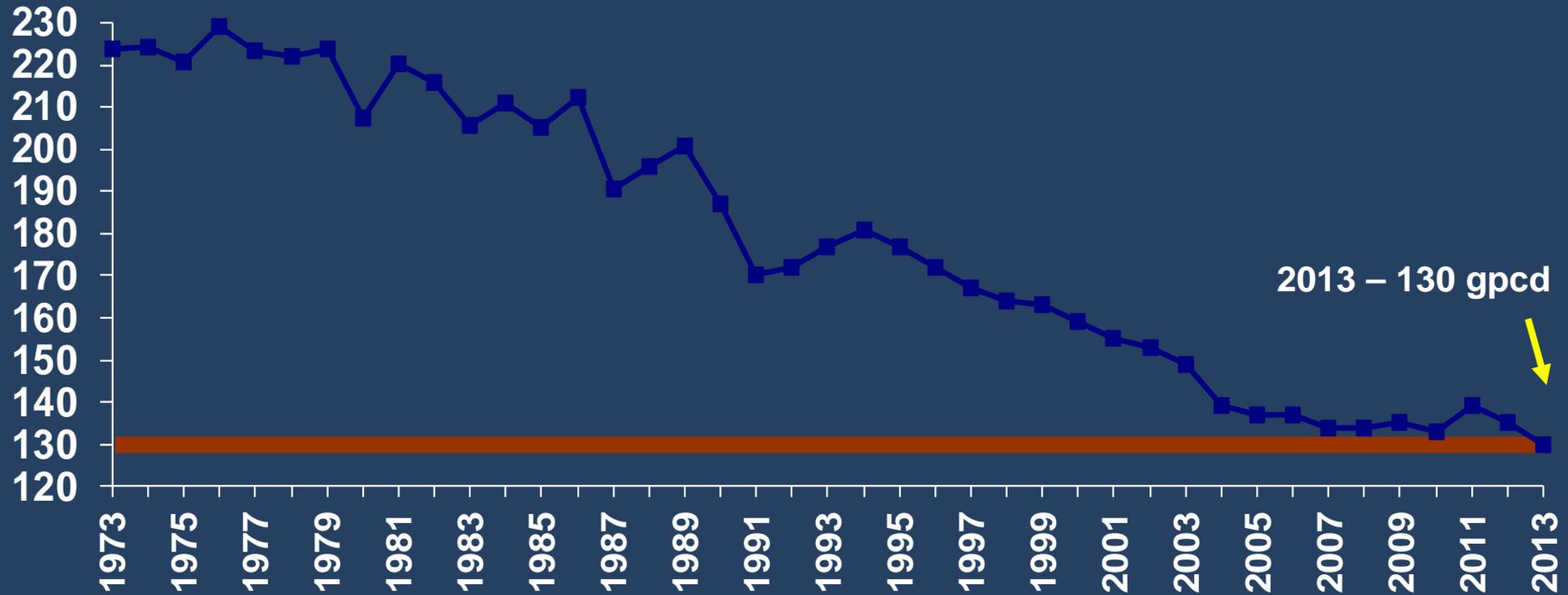
Peak Water Demand



Calendar Year

Per Capita Consumption

GPCD



Goal for 2020 – 130 gpcd

Calendar Year

Water/Wastewater Regional Survey October 2013



* 13 CCF for Water, 9 CCF AWC and 9 CCF for Sewer

Research



CHIWAWA

Consortium for Hi-Technology Investigations in Water and Wastewater

- EPWU, UTEP, Texas A&M AgriLife Research Center, NMSU, City of Alamogordo
- Promote research and training programs in salinity management, inland desalination technology, concentrate disposal, and water resources management
- Goal: development of new technologies and processes to develop reliable and sustainable sources of water



Going Forward



Potential Successes from Regional Planning Efforts

- Developing & updating a regional plan to identify and implement regional long-term solutions for how water is managed could result in:
 - Development of a regional water conservation program(s)
 - Implementation of varied planning strategies
 - Obtaining long-term financing
 - Expanding research opportunities
 - Educating customers about the value of water

State Assistance and Participation

- Ensure TWDB expedites funding from Prop 6
- Streamline permitting for desalination projects
- Support expanding research in water projects
- Establish a Center of Excellence (as previously suggested) for training & education
- Promote innovation and development/expansion of energy sources and municipal water resources, i.e., direct potable reuse



Conclusion

- Increased communication/cooperation between regional entities is vital (regional planning efforts must continue)
- Private sector involvement should be encouraged
- Innovation is key for addressing efficiencies and challenges
- State and/or Federal funding for development of regional projects must be made available & promoted

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