

Integrated Water Management Strategies for the City and County of El Paso



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Topics

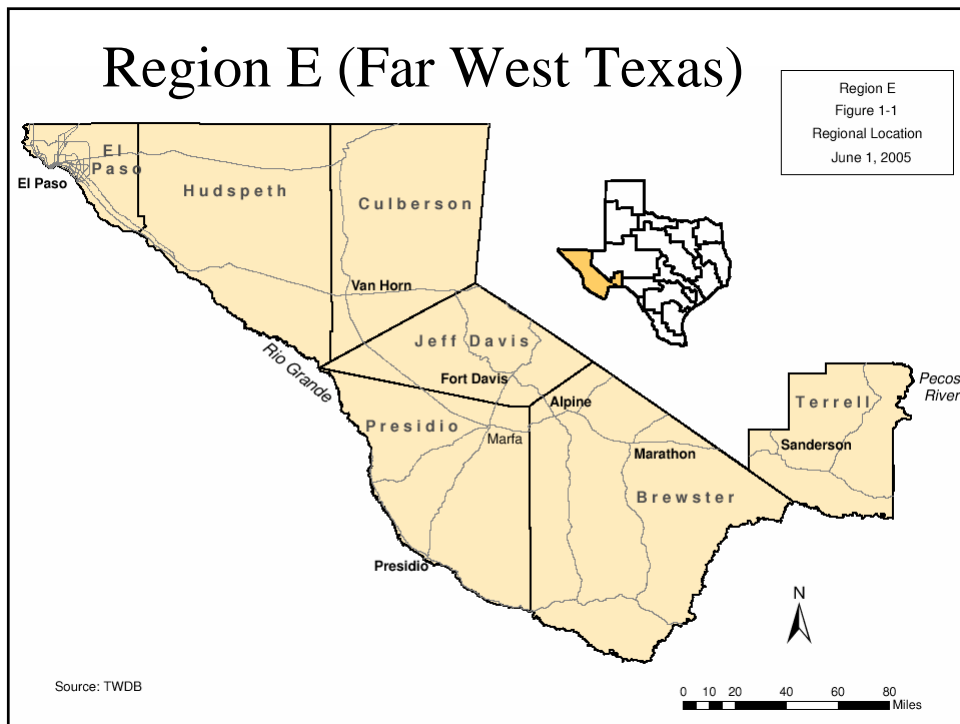
- Regional Water Planning in Texas
- 2001 Region E Plan
- 2006 Region E Plan
 - El Paso County Integrated Plan

Senate Bill 1

- Adopted in 1997
- Established 16 Regions for Water Planning
- 50 Year Plans
- Basis for State Water Plan
 - Initial Plan Adopted in January 2002

Key Elements of Regional Plan

- Population Estimates (50 years)
- Water Demand Estimates (50 years)
- Current Water Supply Sources
- Compare Future Demand and Current Sources
- Identify Deficits
- Develop Strategies to Meet Future Demands



2001 Region E Plan

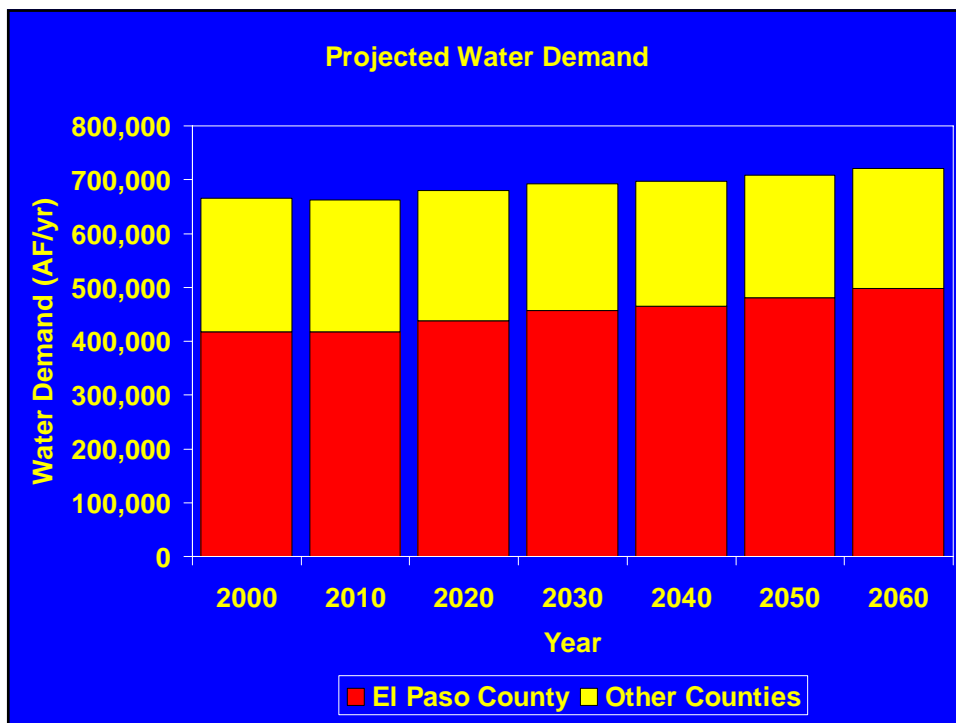
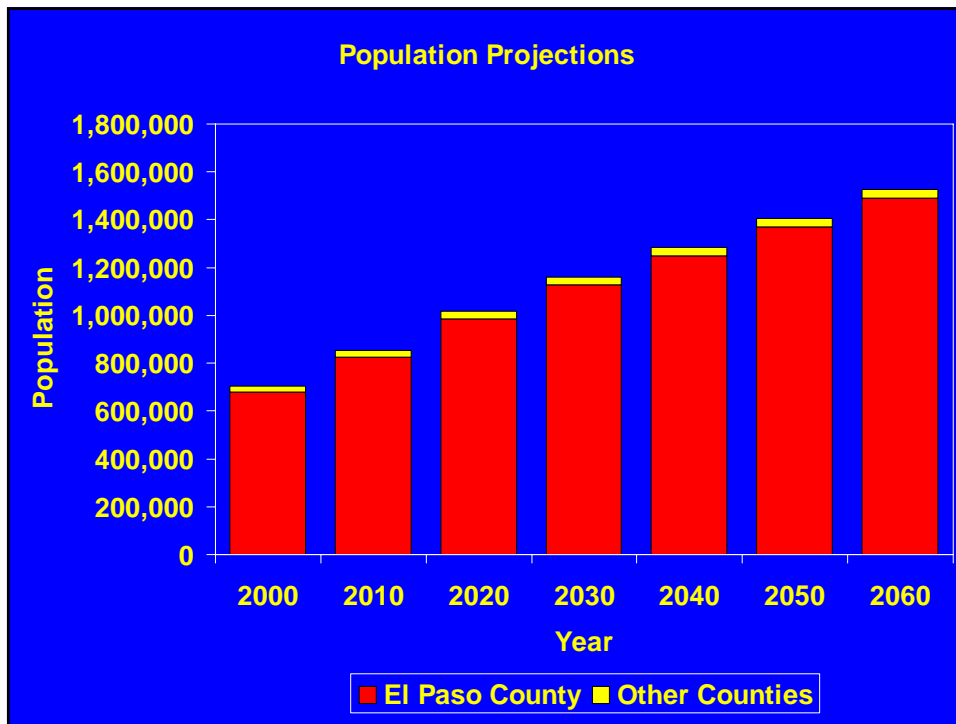
- Identified Deficits in El Paso County
- Identified Alternative Strategies to Meet Future Demands
- No Specific Plan to Meet Deficits

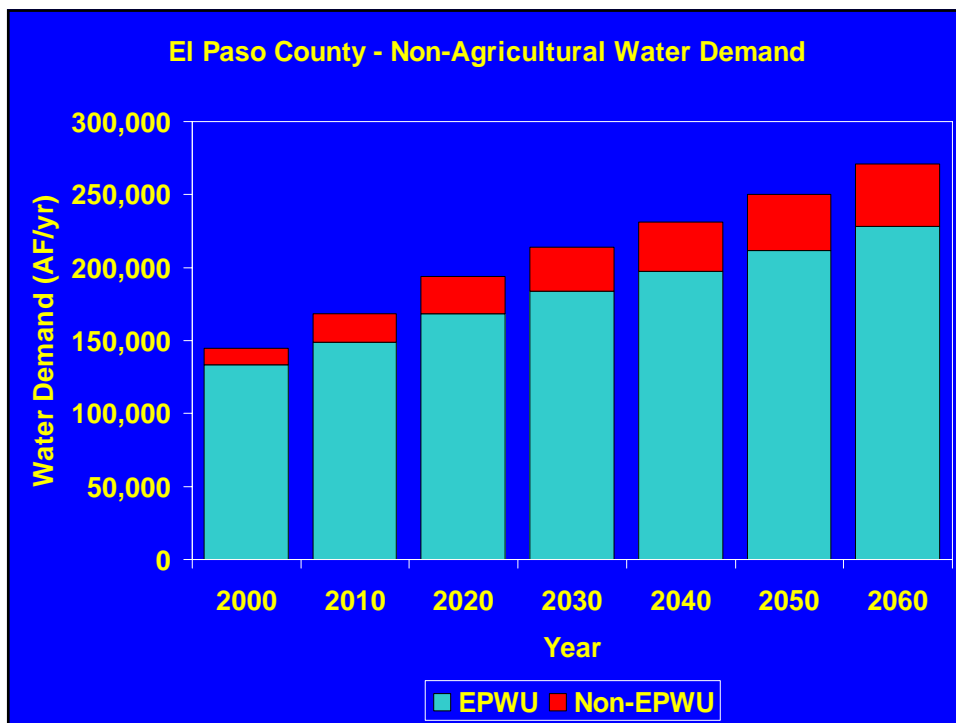
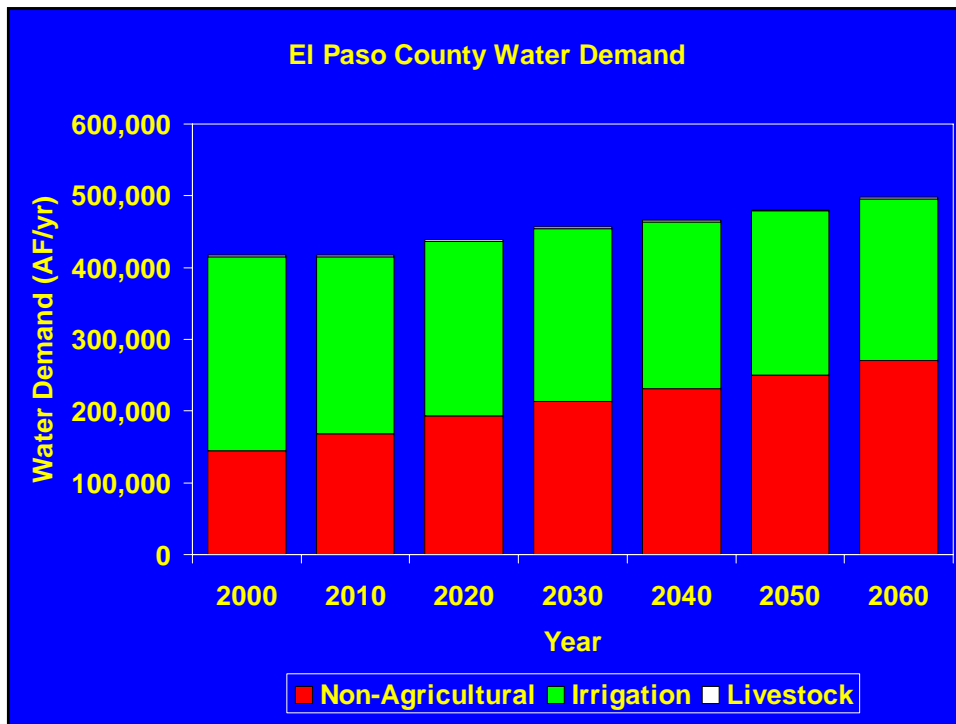
2006 Region E Plan

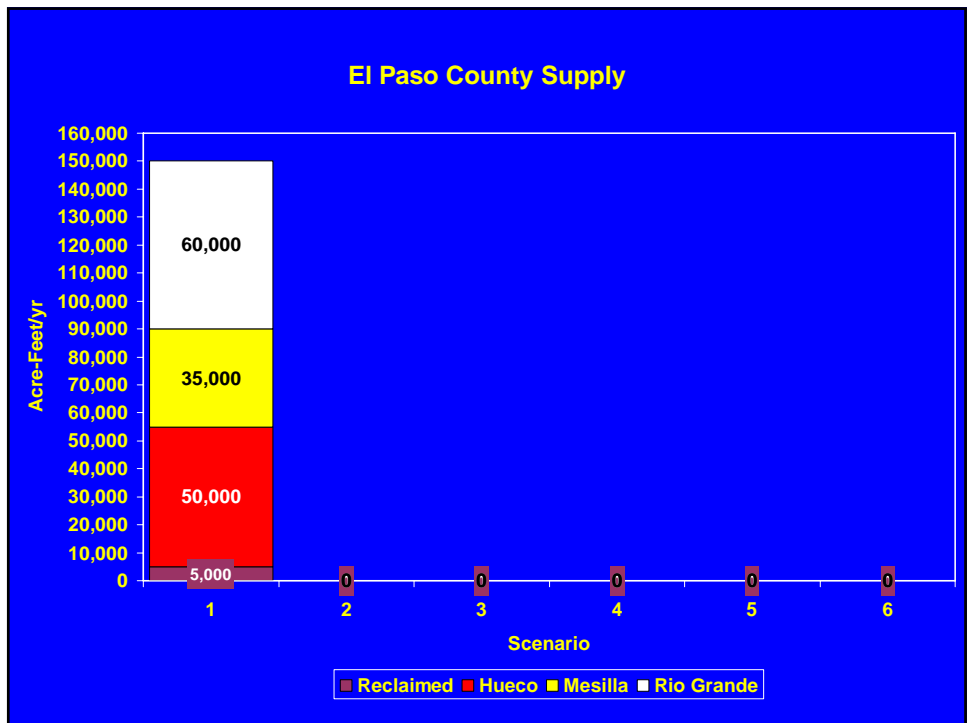
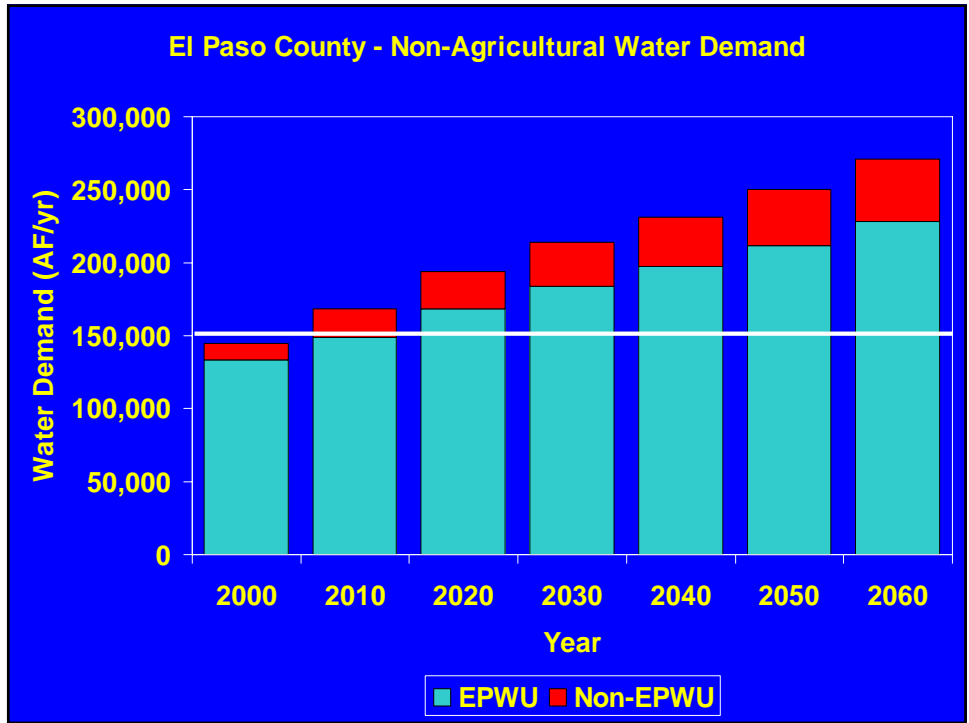
- Major Focus: 50-Year Supply for El Paso County
 - Non-agricultural
- Developed 6 Integrated Water Management Strategies (IWMS)
 - Local Supplies (Surface Water, Groundwater, Reclaimed Water and Conservation)
 - Imported Supplies (Dell City, Capitan Reef, Wildhorse Ranch, Antelope Farms)
- Planning Group Adopted IWMS 6

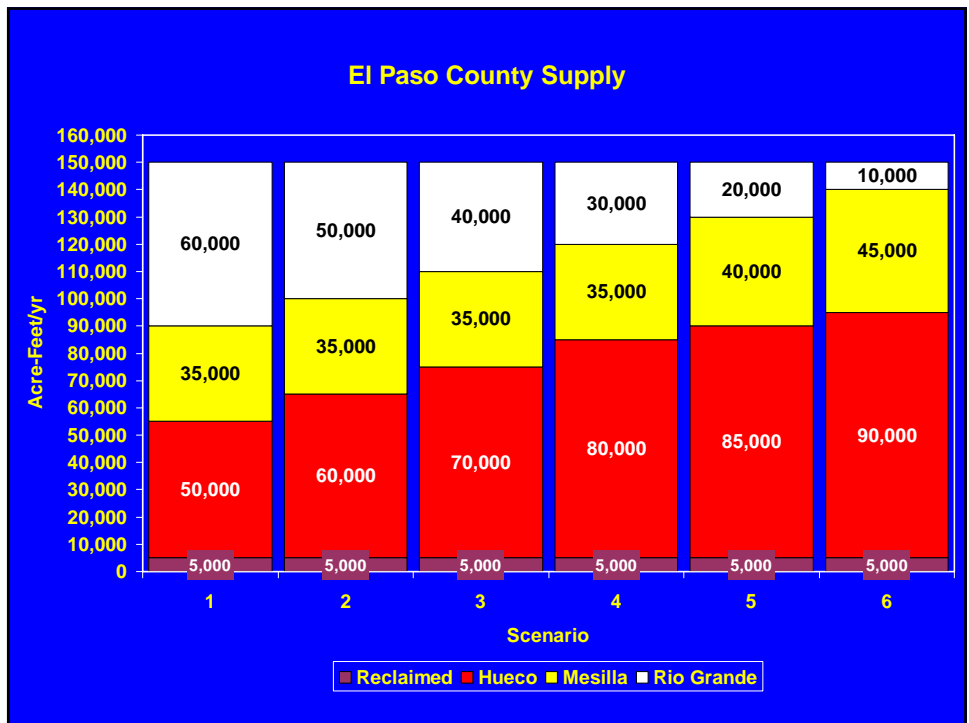
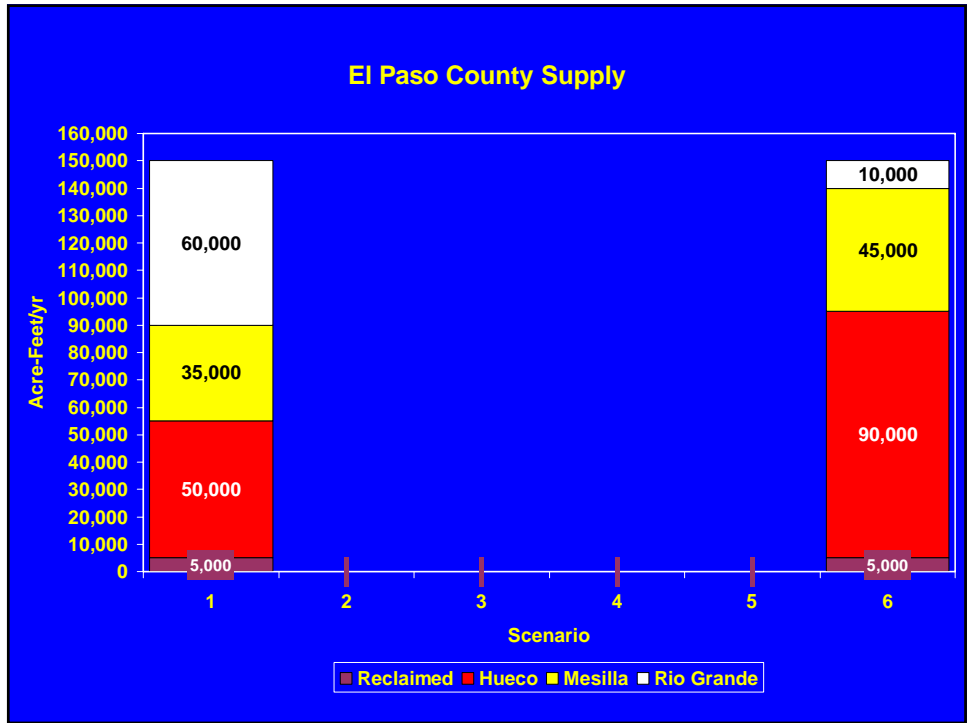
Summary of Plan

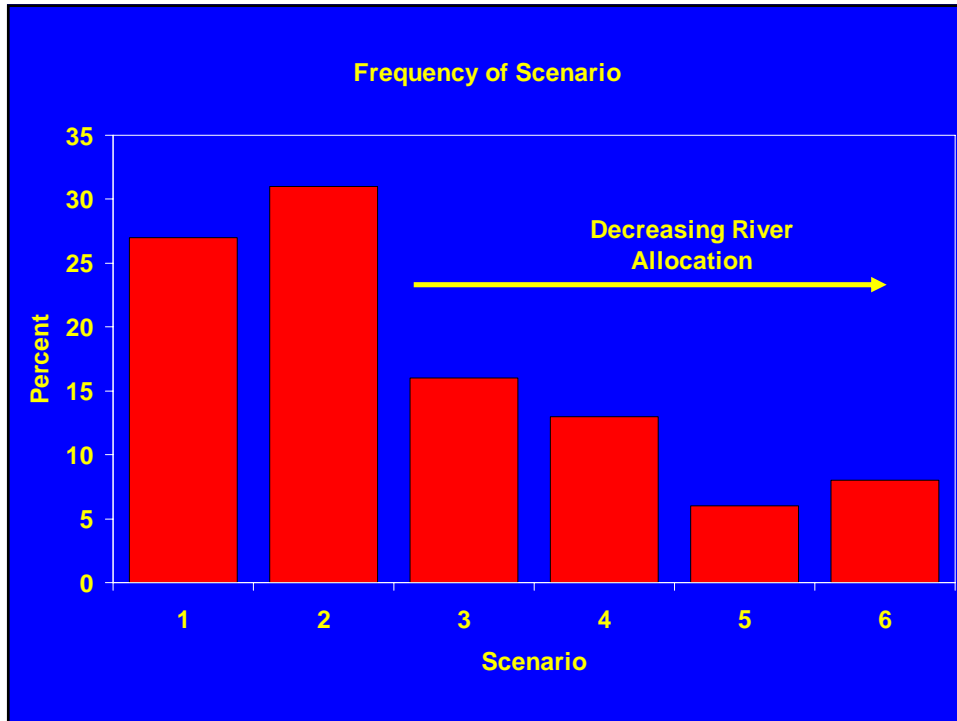
- Population Projections
- Water Demand Projections
- Supply Sources
- Deficits
- Integrated Strategy









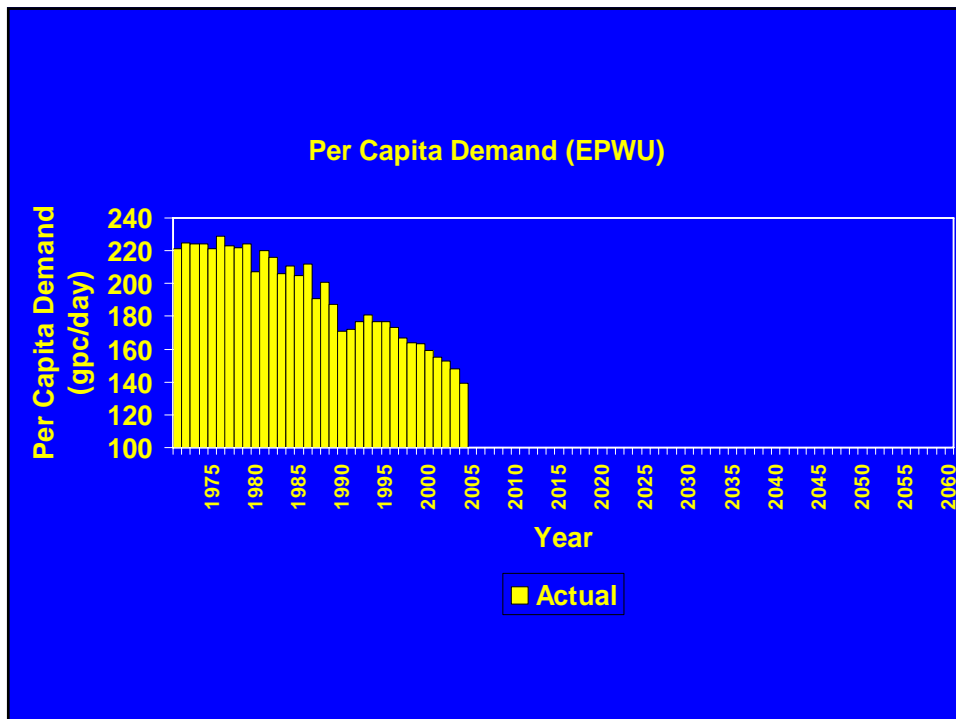


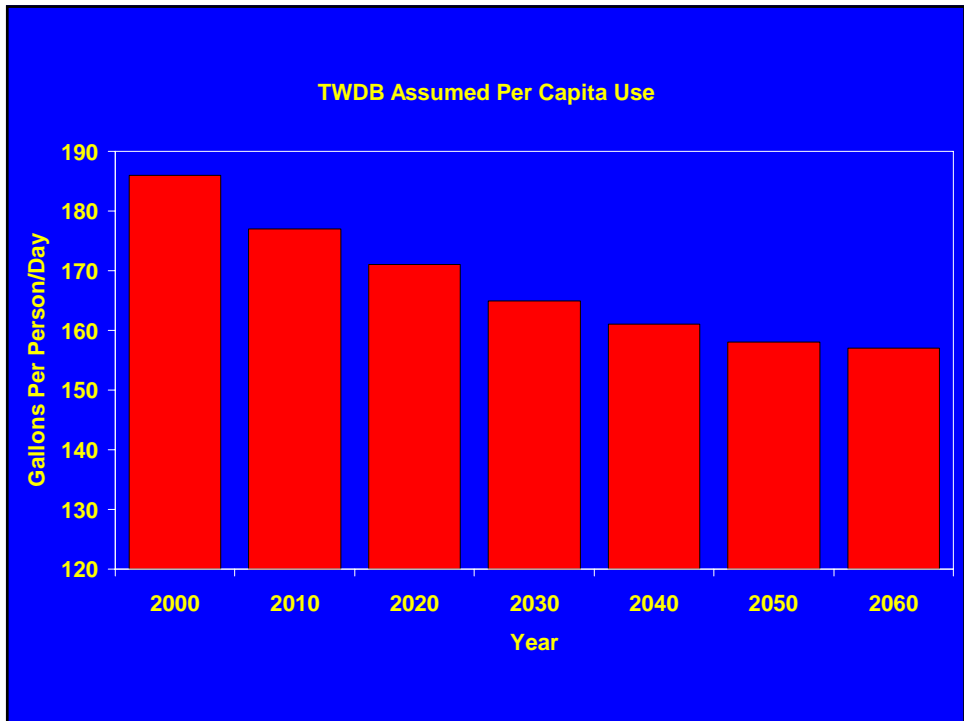
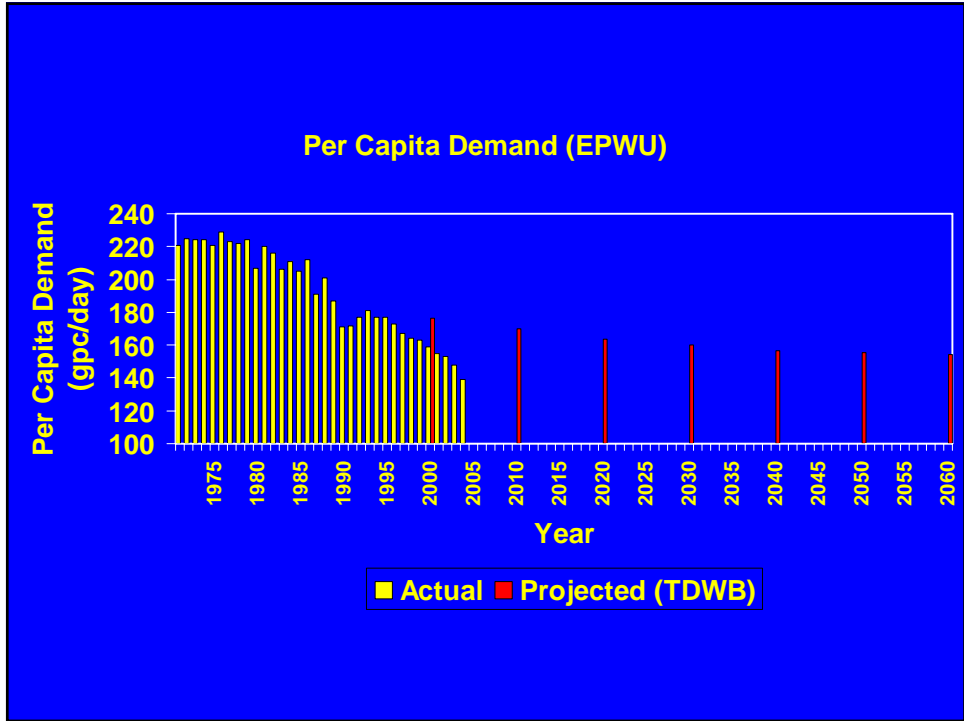
Strategies

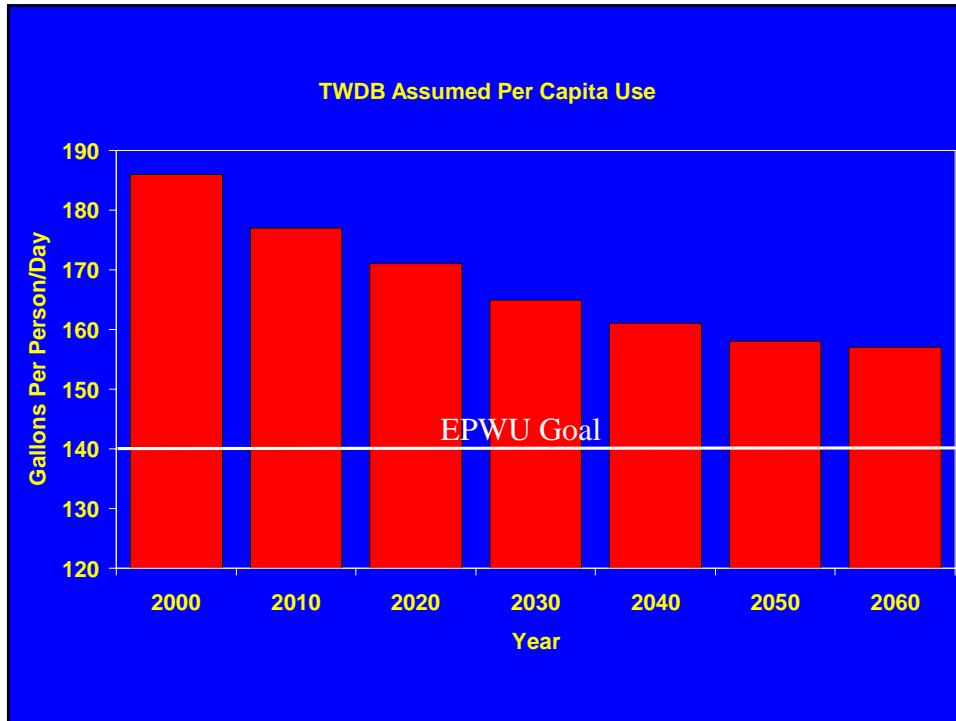
- Demand Based
 - Conservation
 - Reclaimed Water
- Local Supply
 - Increased Conjunctive Use
- Importation

Conservation (Per Capita Use)

- TWDB assumption vs. EPWU Achievement





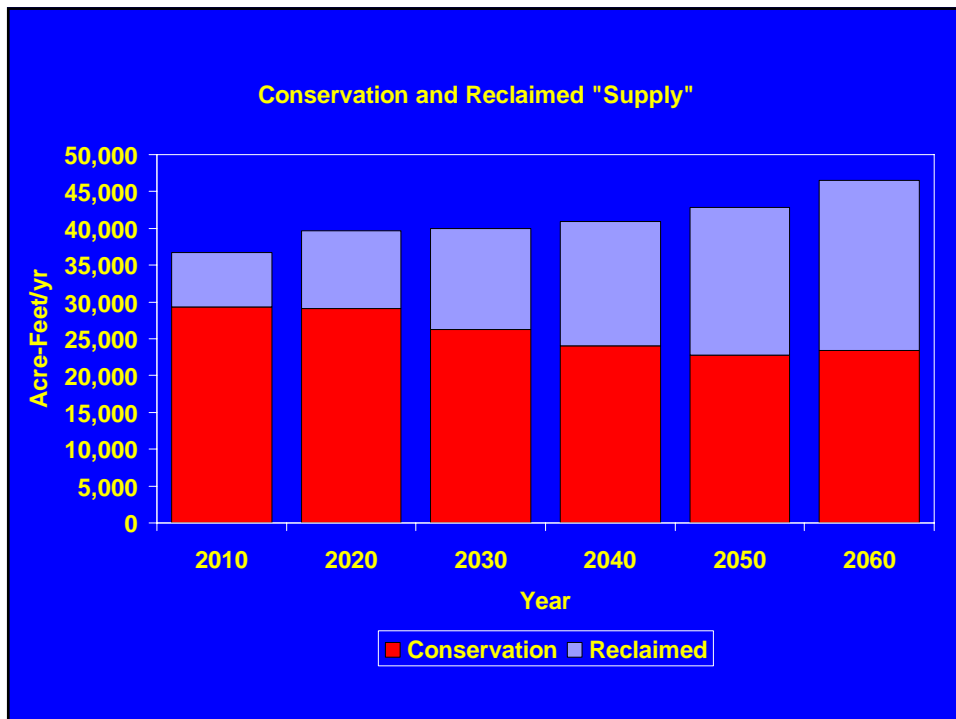


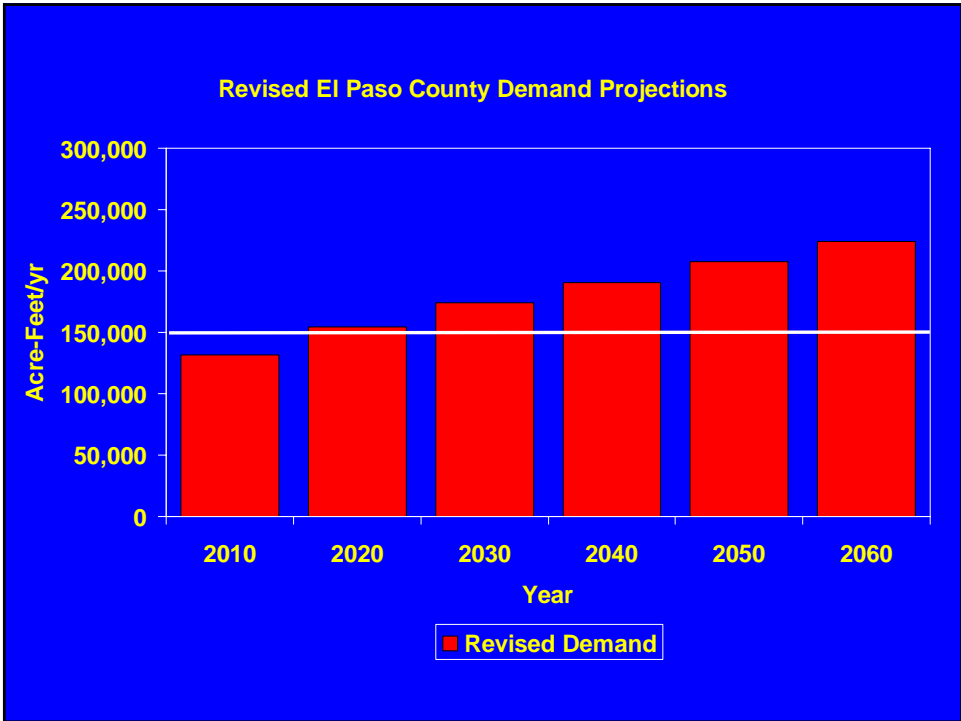
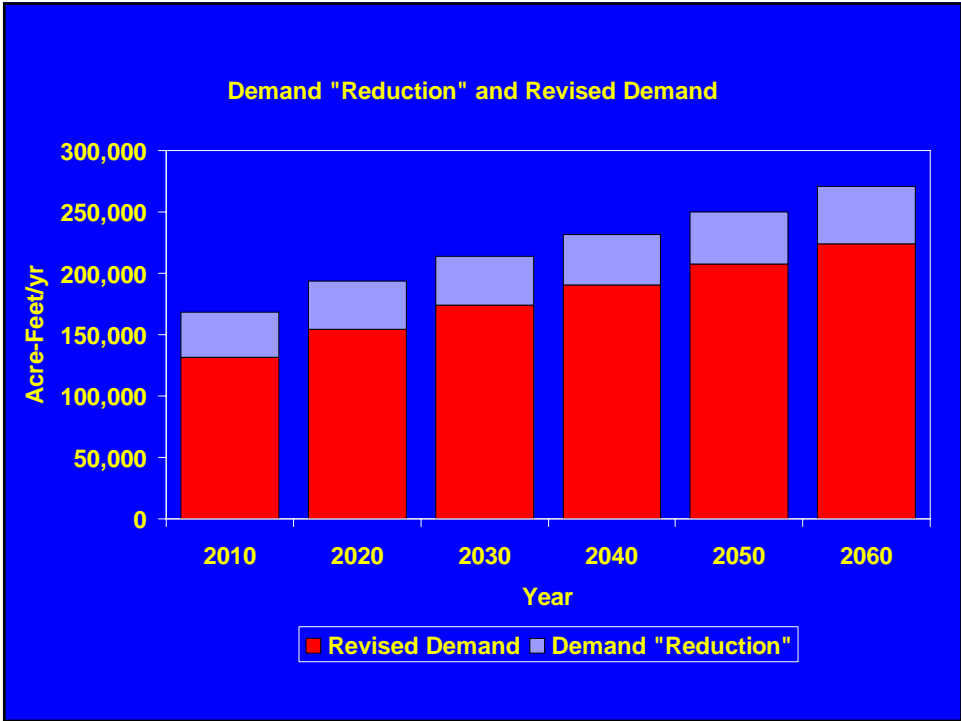
Conservation (Per Capita Use)

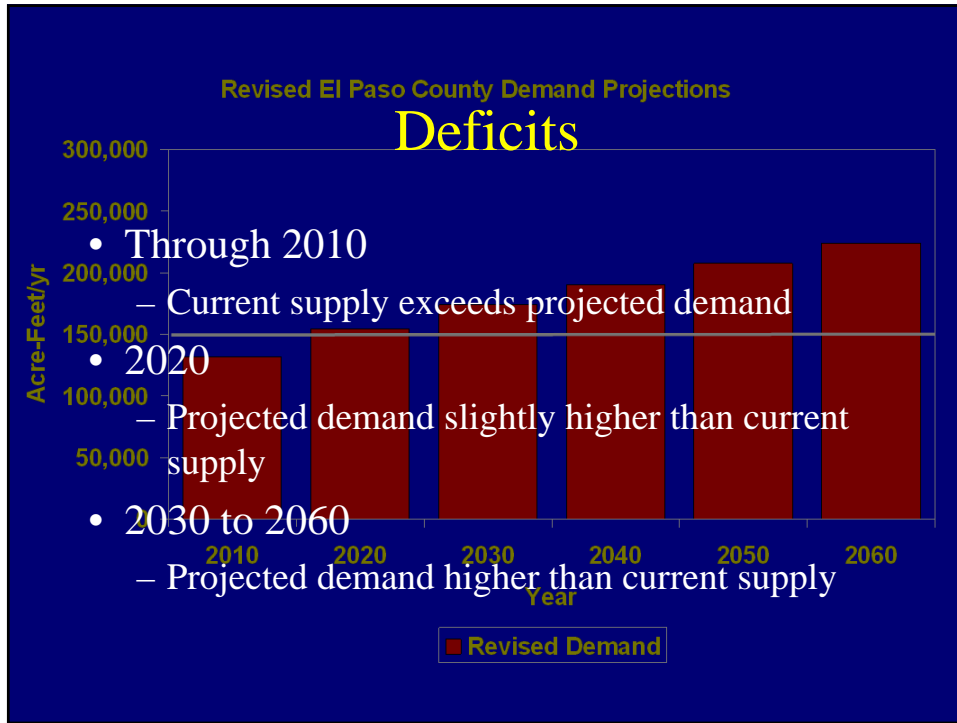
- TWDB assumption (2010) = 177 gpc/day
- EPWU Target for 2010 is 140 gpc/day
 - 2004 = 139 gpc/day
 - 2005 = 137 gpc/day
- Non EPWU
 - < 140 gpc/day (no reduction)
 - Ft Bliss – 2% per decade

Reclaimed Water

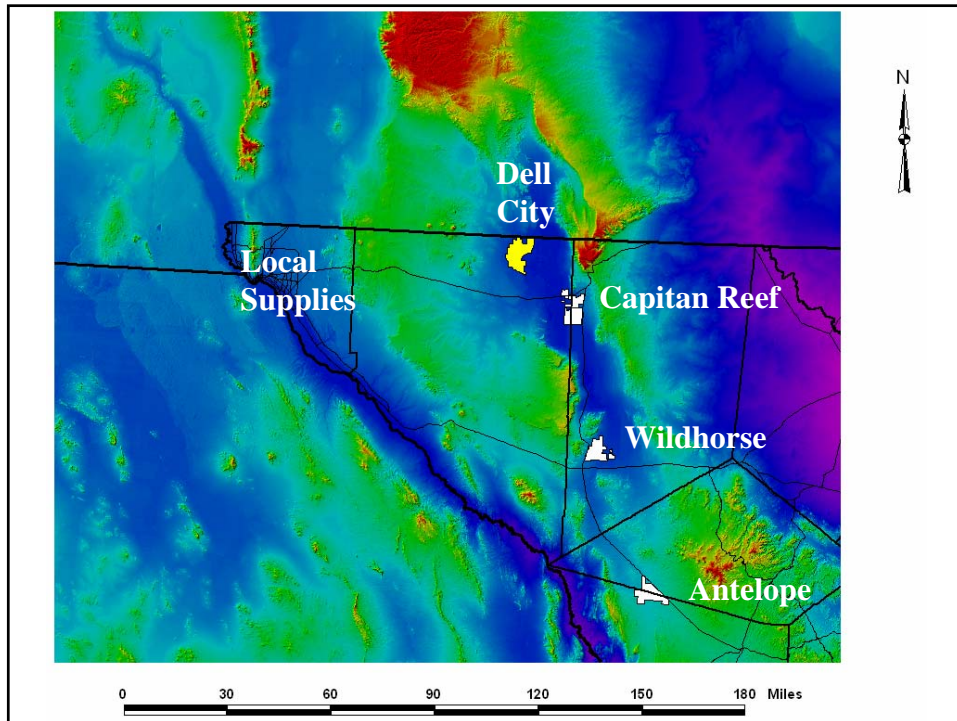
- Current Use is 5,000 AF/yr
- Projected to Increase to 23,109 AF/yr by 2060





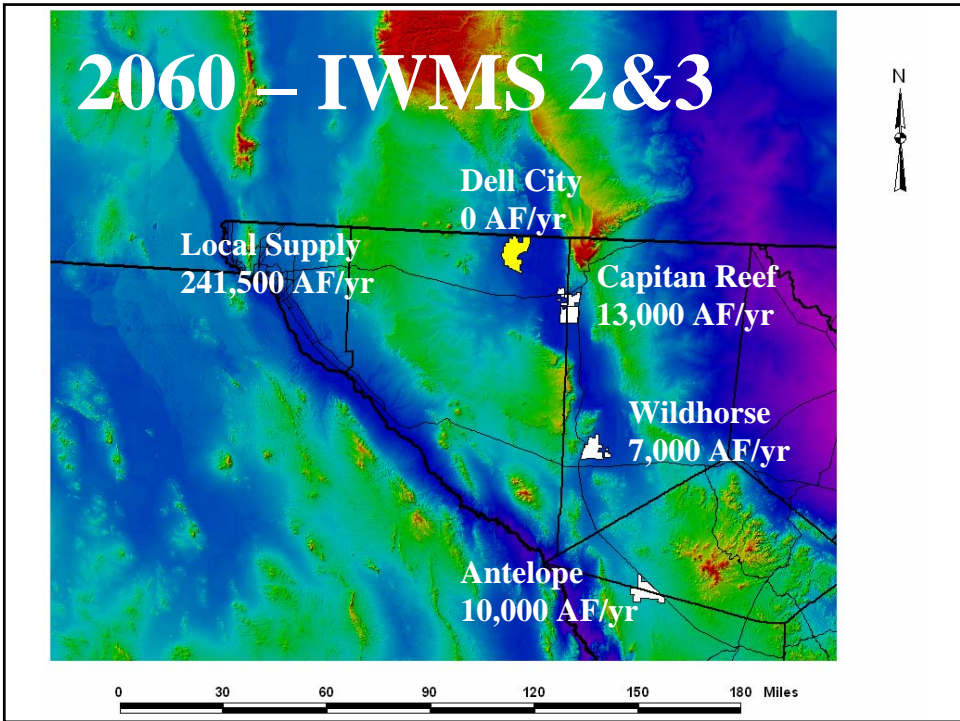
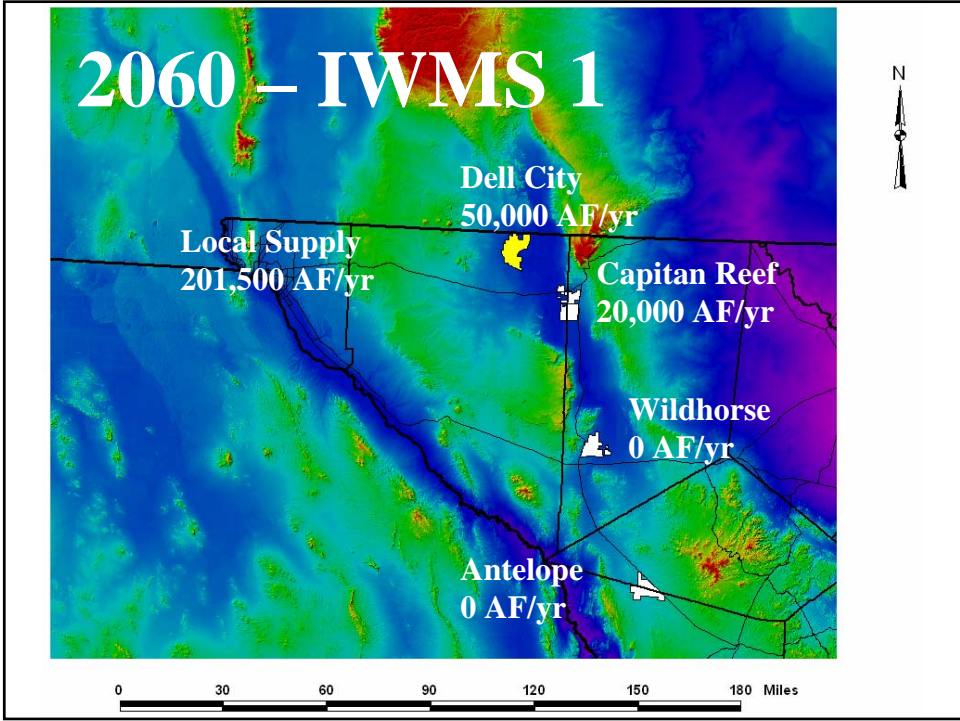


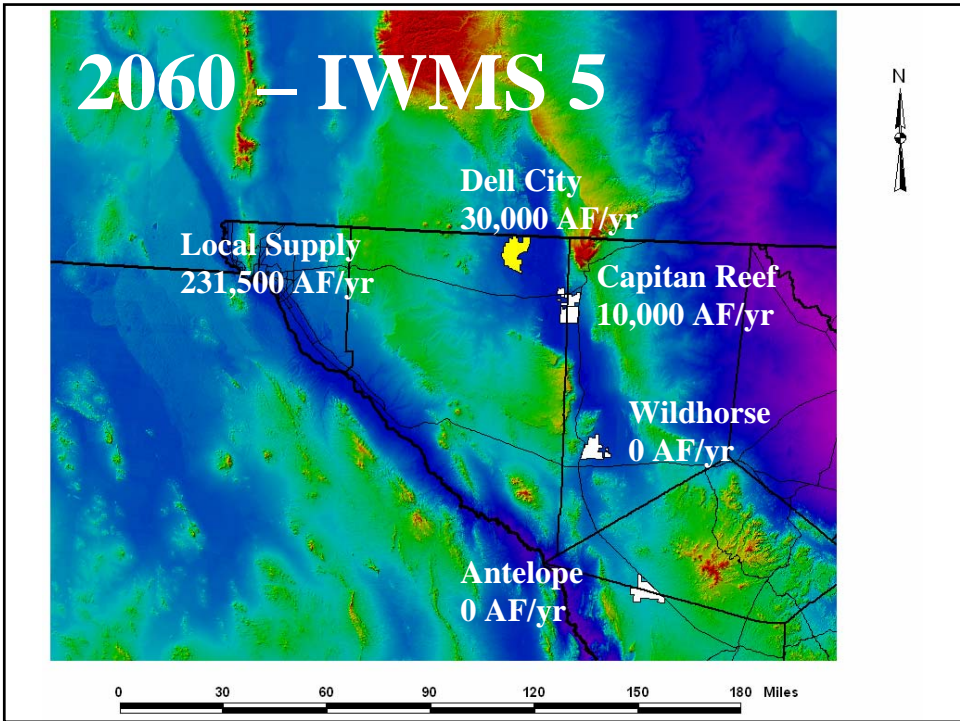
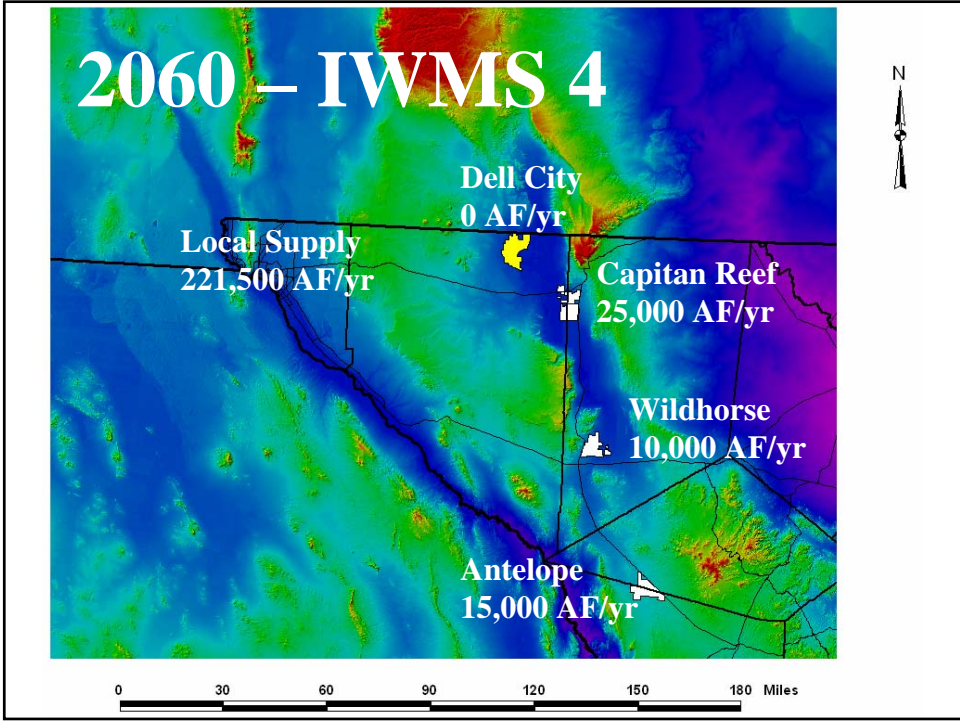
- ## Integrated Strategies
- All contain conservation and reclaimed
 - Local Resources
 - Rio Grande
 - Hueco and Mesilla Groundwater
 - Importation
 - Capitan Reef
 - Dell City
 - Antelope Farms
 - Wildhorse Ranch

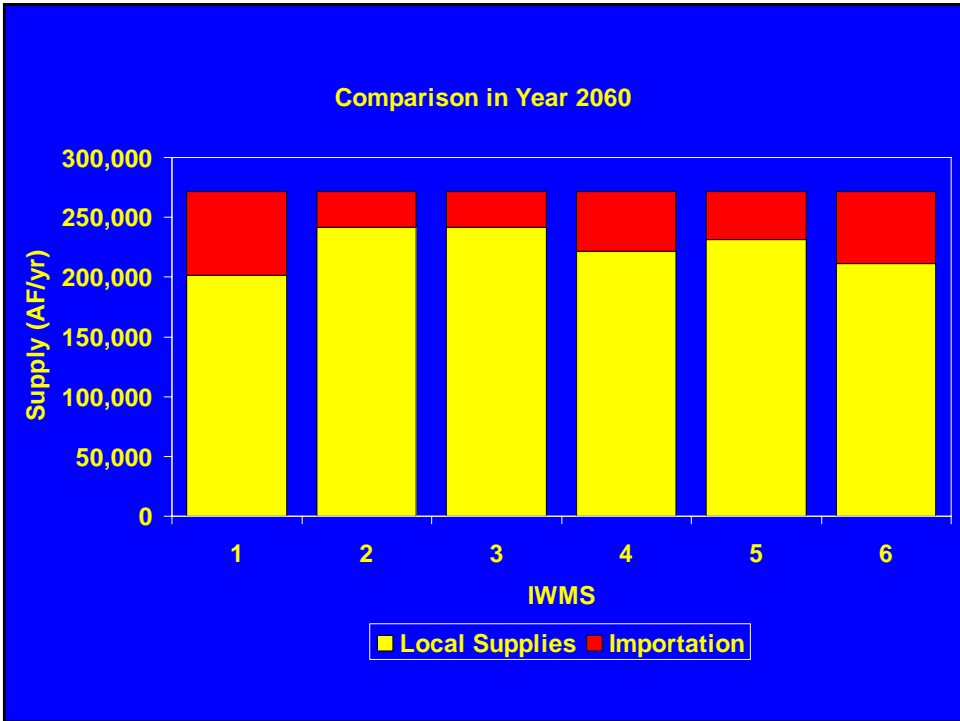
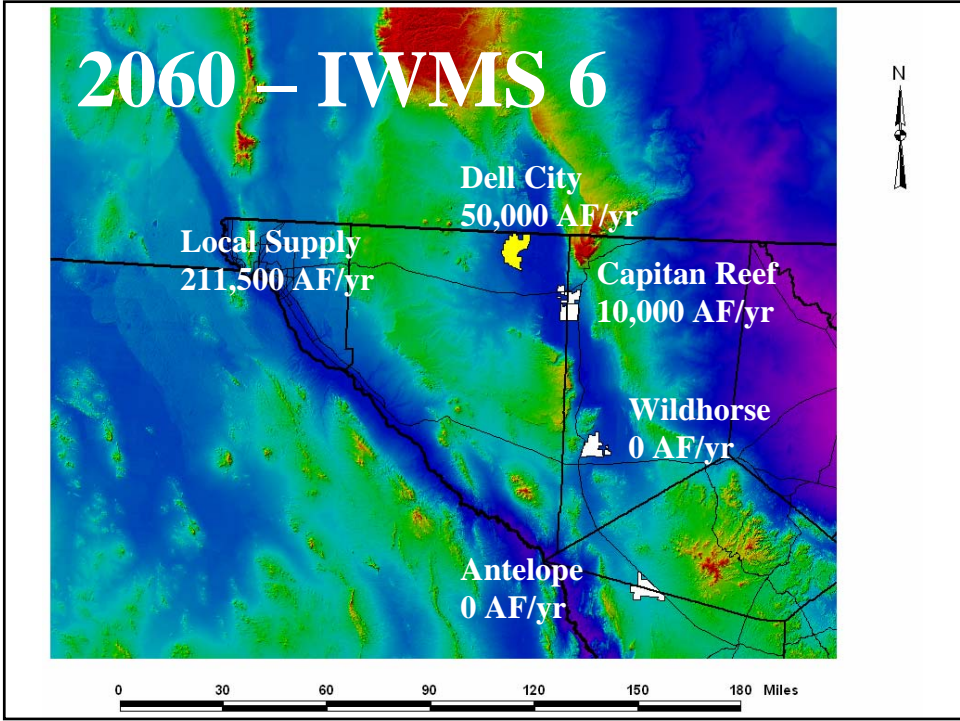


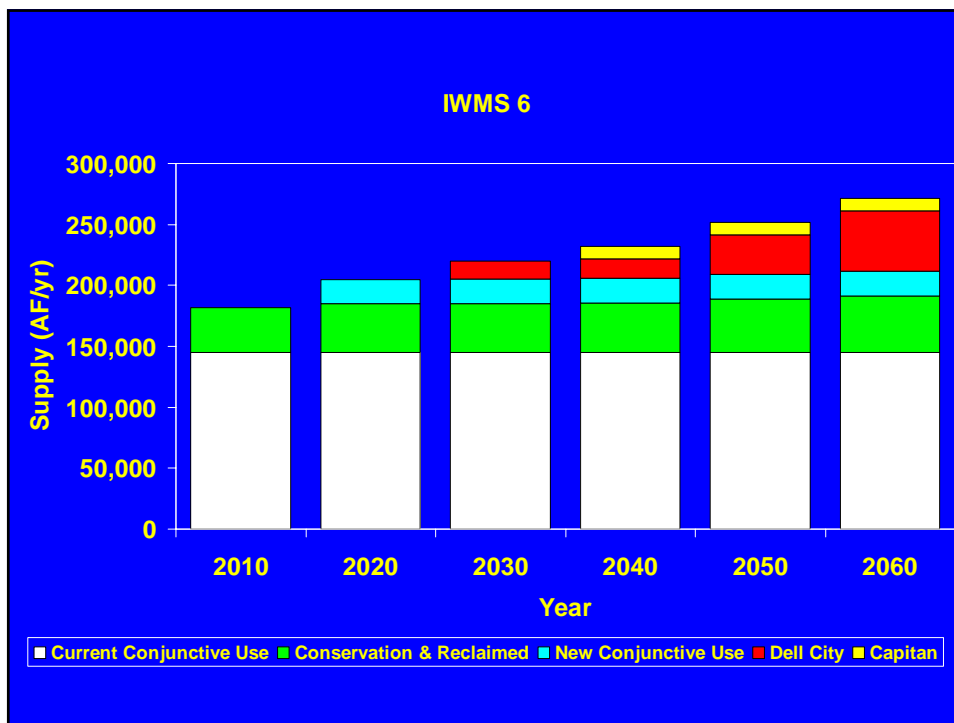
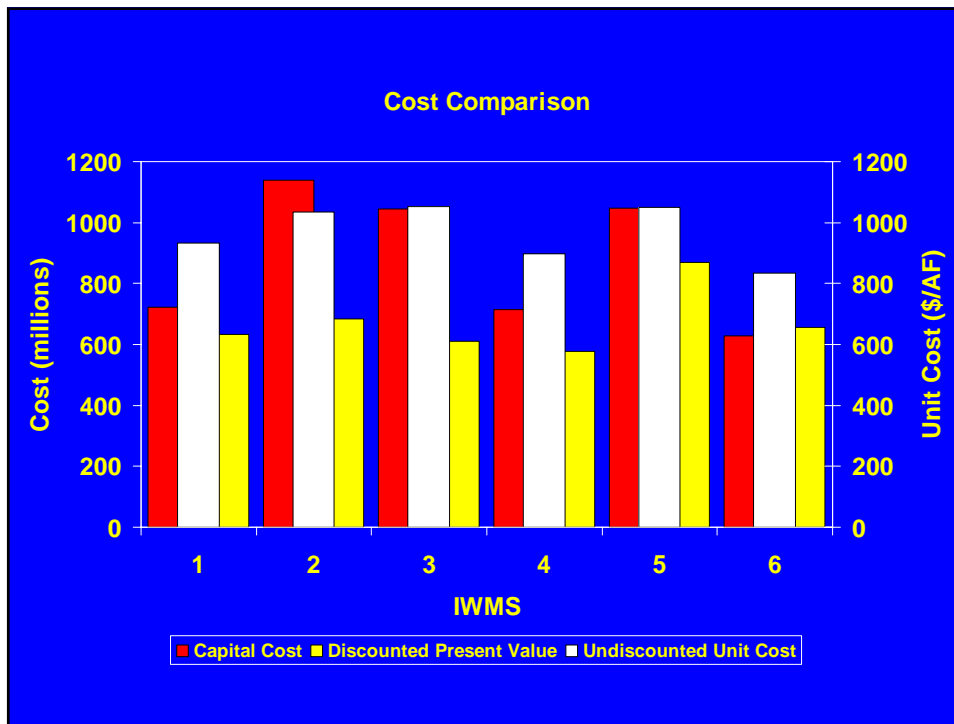
Integrated Strategies

1. “Balanced”
2. Local Surface Water
3. Local Groundwater
4. Importation from Lands Currently Owned by EPWU
5. “Balanced” with Increased Surface Water
6. “Balanced” with Moderate Increase in Surface Water









IWMS 6

- Continue Conservation Efforts
- Increase Reclaimed Water Use
- Moderate Increase in Local Supply by 2020
- Importation
 - Deferred until 2030
 - Dell City pumping within current limits of HCUWCD No. 1 (2060)
 - Capitan pumping at low end of “safe yield” estimates (2060)

Next Steps

- Observe population trends
 - Ft Bliss expansion
- Observe demand trends
 - Demand has not been growing as fast as previous projections
- Plan is updated every 5 years
 - 10 year updates?
- Could have one or two more updates prior to next major capital expense by EPWU

