

Mesa Water Project

Presentation to
Region G Upper Brazos
March 23, 2004



Vinson & Elkins

Brazos G RWPG, Agenda Item 7.8, 3/23/04

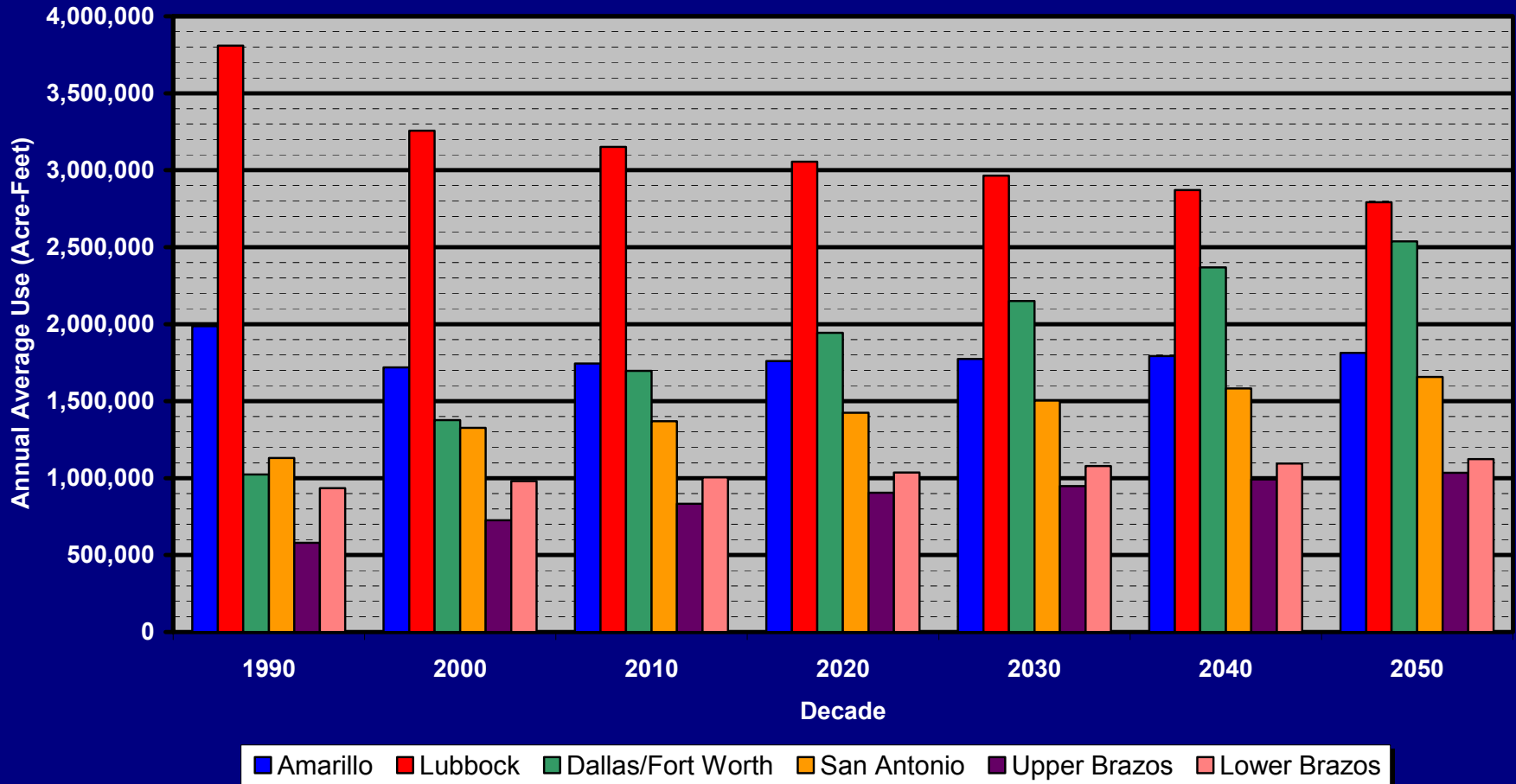
Water Planning Process for Texas

- **By the year 2051:**
 - State population is expected to double
 - Conservation/more efficient use will limit water demand increase to 18%
 - Even with conservation measures, water shortfall in 2051 will still exceed **3 million acre-feet per year**

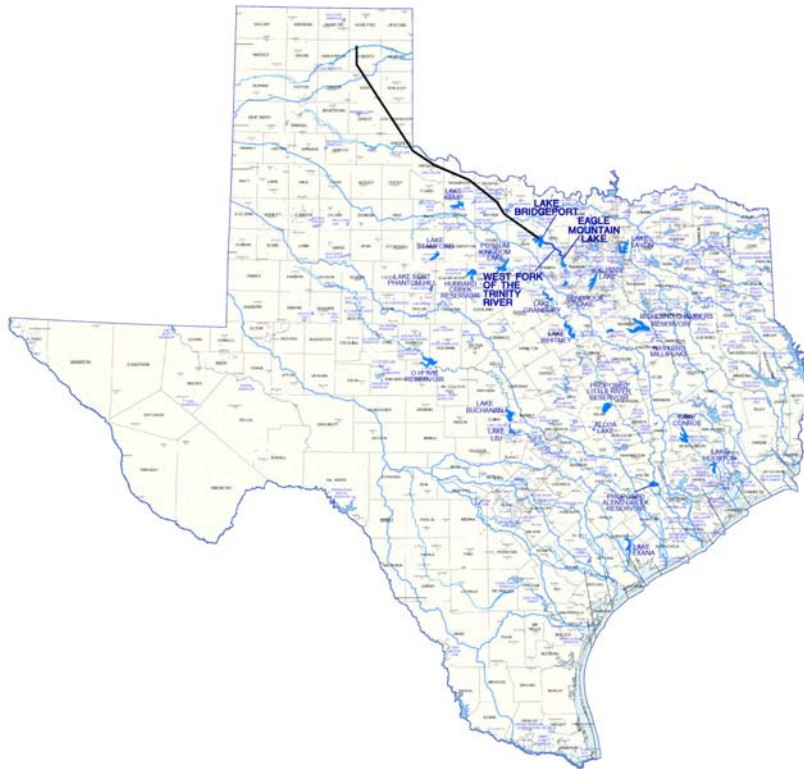


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Average Annual Water Use by Region



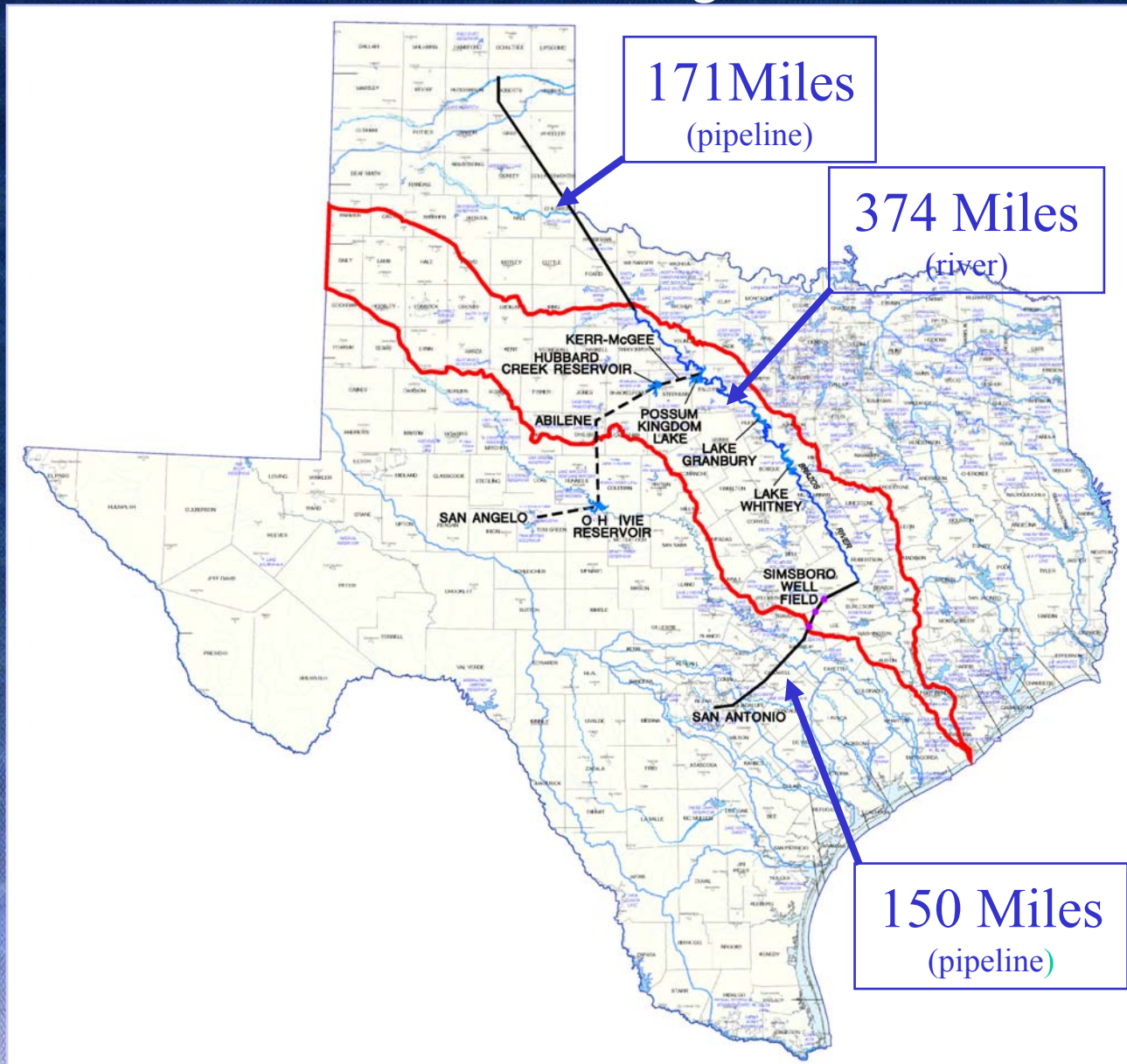
North Texas Project Route



- Up to 200,000 ac-ft/yr Panhandle groundwater to West Fork Trinity River
- Transport of water to Eagle Mountain Lake via West Fork Trinity River
- Reuse of Groundwater-Derived Effluent

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San Antonio Project Route



Elkins

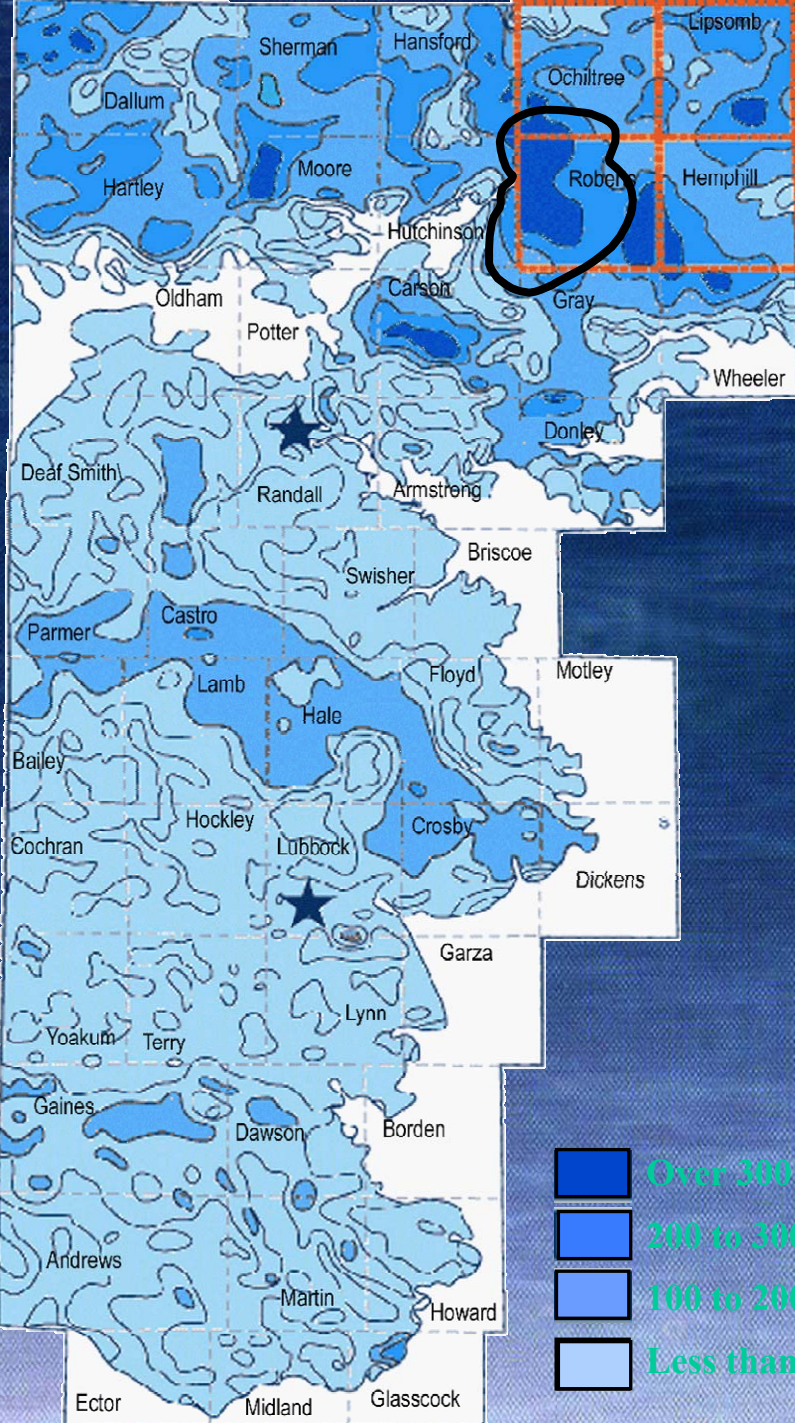
Ogallala Aquifer



- The largest aquifer in North America
- Extends 174,000 square miles under eight states
- Contains over 3 billion ac-ft; 350 million ac-ft in Texas
- In Texas, more groundwater is produced from the Ogallala than all other aquifers combined



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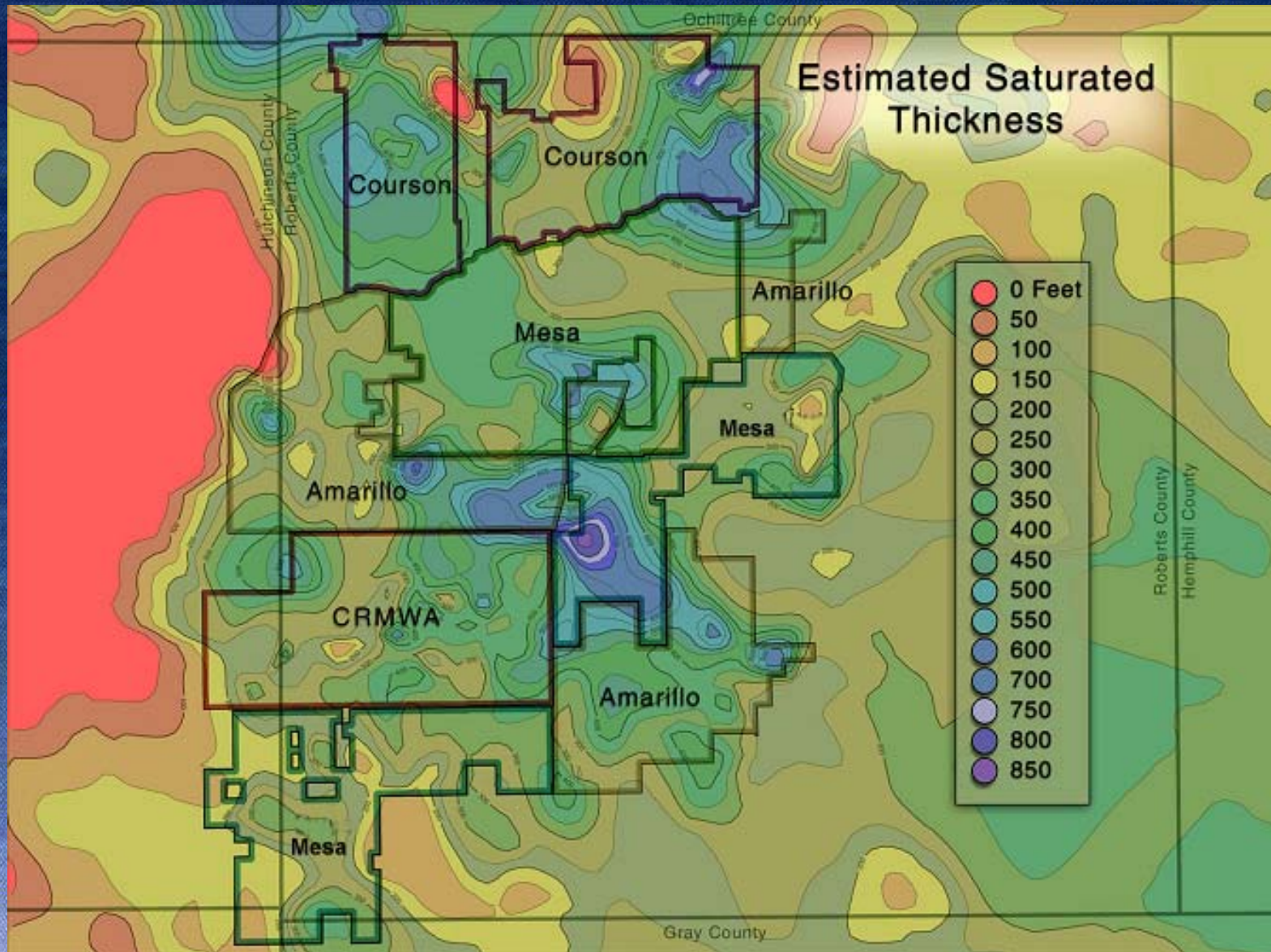


The Ogallala in the Texas Panhandle

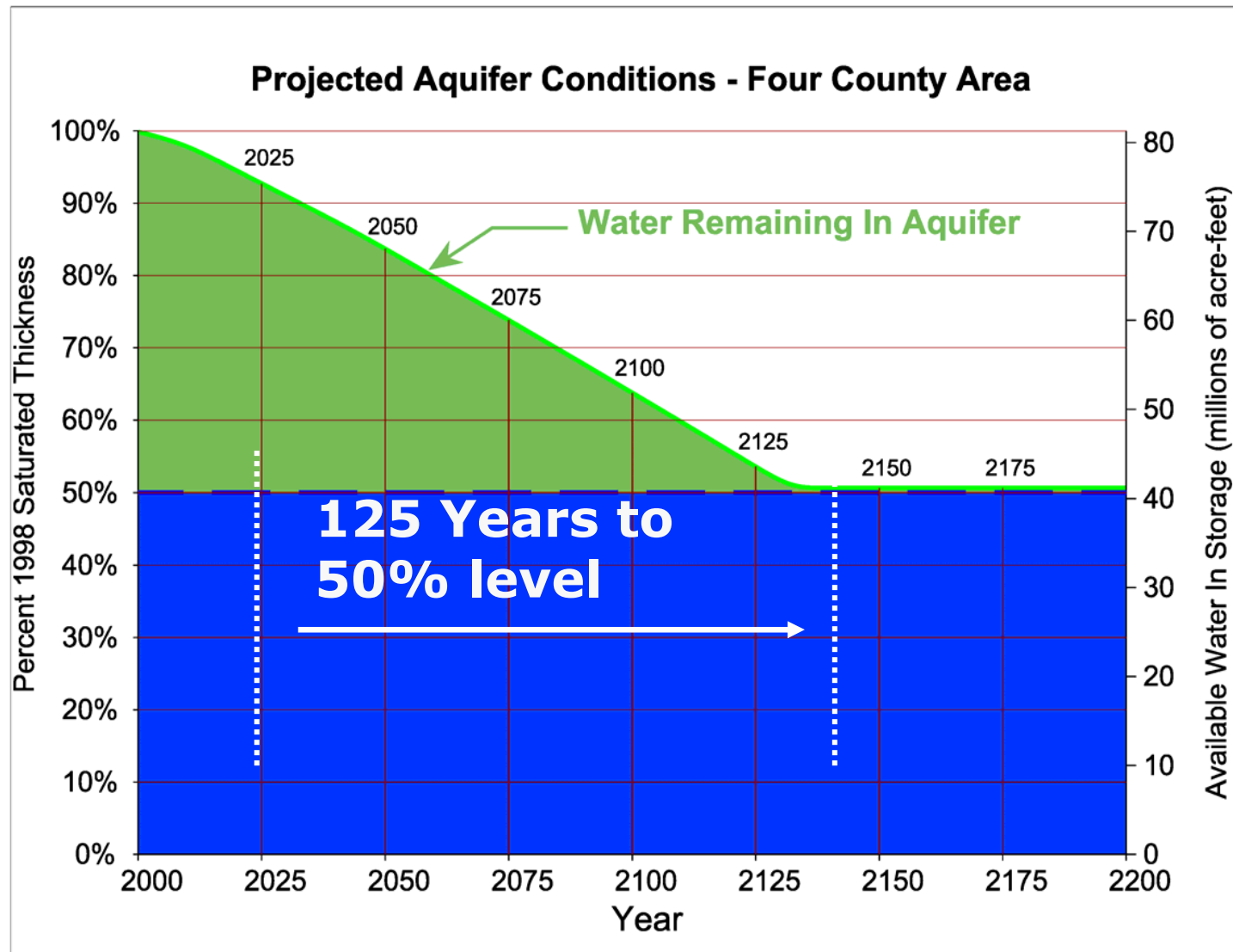
- Significantly unused in four county project area
- Over 60 years of extensive use in areas well suited to irrigation
- More than six million acre-feet pumped annually

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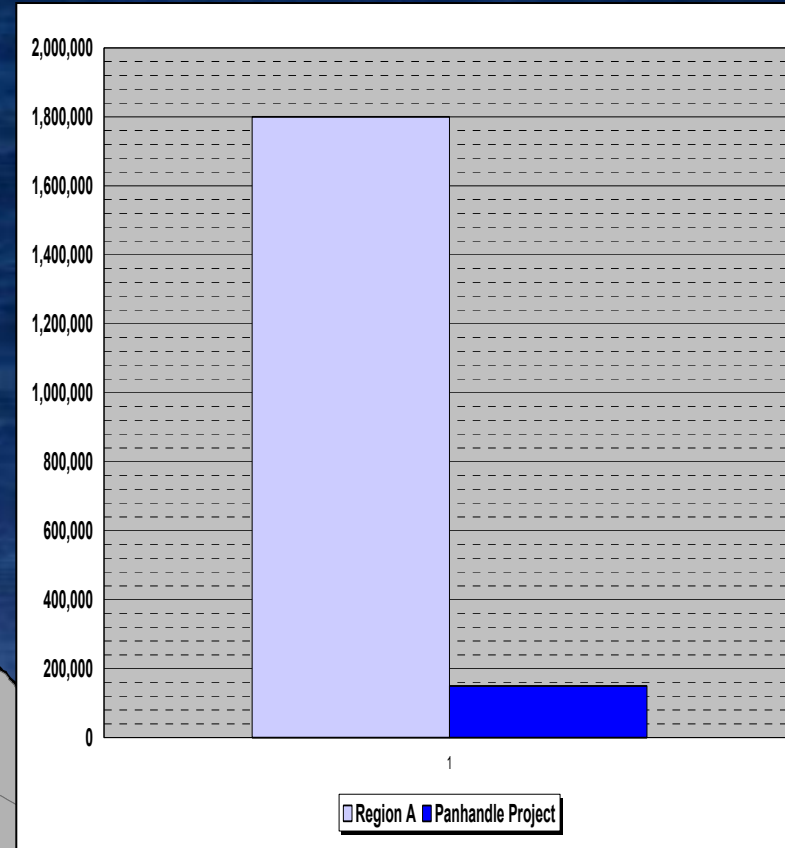
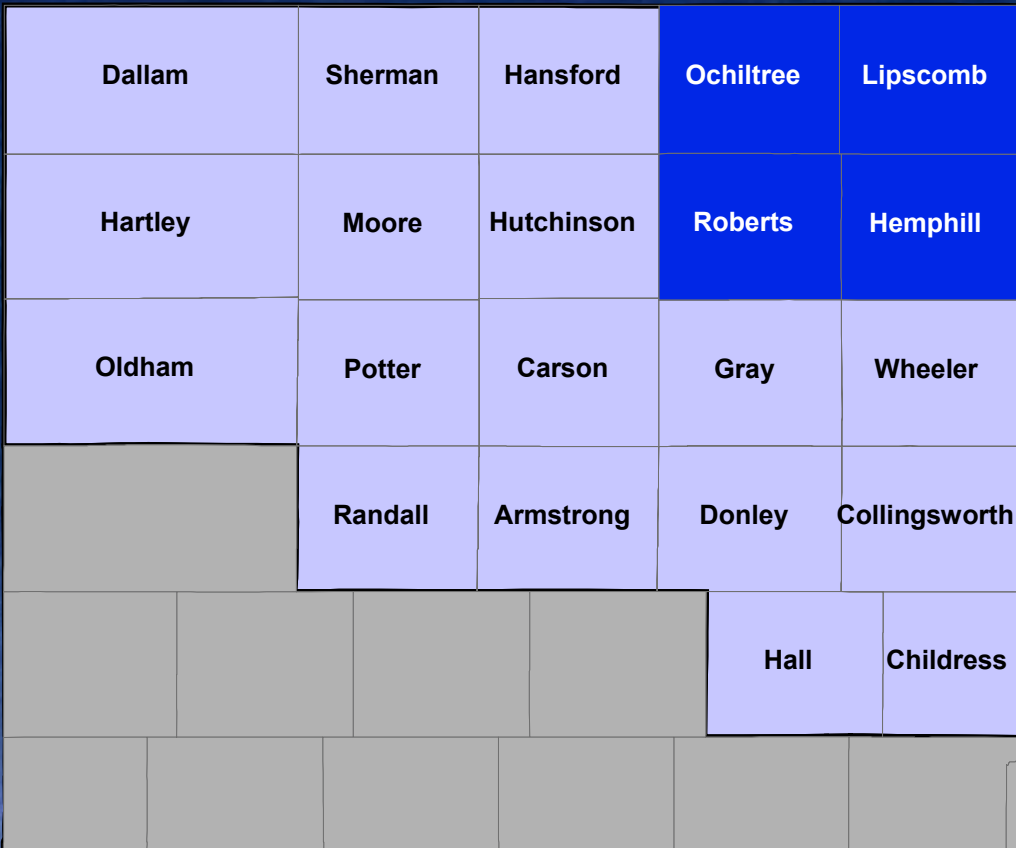
Existing Saturated Thickness



Four-County Groundwater Availability



Region A Use Compared To Panhandle Project



Panhandle Project
 Remaining Region A