

Water Demand Projections Update to Board

Water Operations Committee

December 16, 2008

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Key Points

- Work on water demand projections to 2100 is complete
- Projections are based on latest information, key assumptions and service in a limited geographic area
- Staff is seeking Board input for inclusion in Water Supply Resource Plan

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Data Sources

Sources of data staff used in projections:

- Region K Water Plan
- Texas State Data Center
- U. S. Census Bureau
- Capital Area Planning Council of Governments (CAPCOG)
- Houston-Galveston Area Council (H-GAC), and
- data provided by several counties.

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Key Assumptions

Refer to Water Supply Planning Area map attached

- Limited to Colorado River watershed
- Williamson County projections limited to current contracted amounts
- Projections are at the county level

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Key Assumptions

- **Water demand estimates are for firm water**
 - Municipal, industrial and other
- **Demand projections do not include:**
 - Any water for environmental purposes
 - LCRA's interruptible irrigation demands

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Key Assumptions

- **Demand projections limited to water LCRA will likely be asked to provide**
 - Cities using groundwater were assumed to continue such to the extent available
- **Industrial demands difficult to predict**
 - Included pending contract requests, such as White Stallion Energy in updated projections

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Key Assumptions

- **Included in the projections:**
 - domestic uses around lakes
 - conveyance losses to downstream customers
- **Projections do not include demands for the LCRA-SAWS Water Project**

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Methodology Used

- **Developed two planning scenarios**
 - **Scenario I** generally continues the water demand projections in the approved Region K plan and projects them to 2100.

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Water Supply Resource Plan

Methodology Used

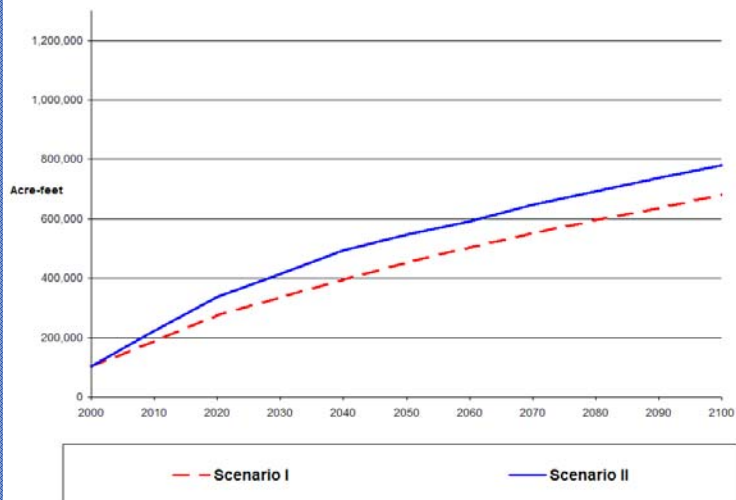
– **Scenario II** builds on the water demand projections in the approved Region K plan by also including:

- updated population growth estimates,
- approved and requested contracts, and
- other water uses not accounted for in the current Region K plan.

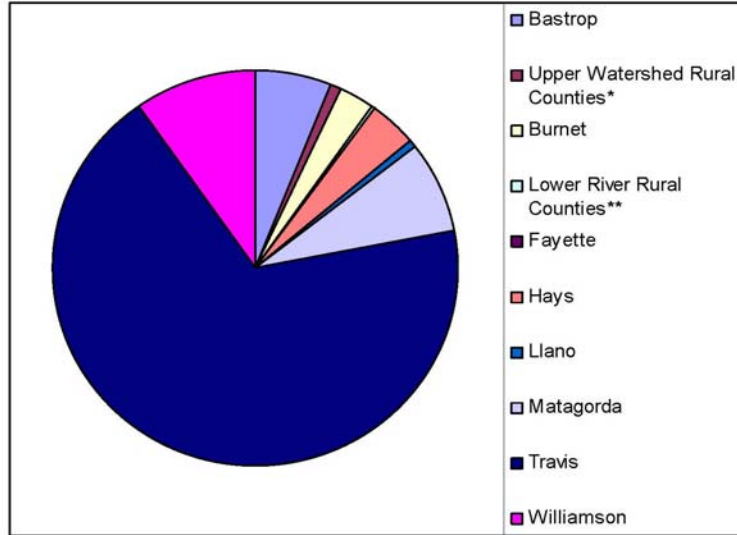
Water Supply Resource Plan

Total Projected Water Use For Scenario I And Scenario II

LCRA Water Supply Resource Plan
Projected Water Demands (Municipal and Industrial without SAWS)



Scenario II Increase in Water Demand from 2010 to 2100 (acre-feet)



Water Supply Resource Plan

- Recommendation
 - Use Scenario II for Water Supply Resource Plan

- Questions and answers

