INTRODUCTION

The 2016 Plateau Region Water Plan provides an evaluation of current and future water demands for all water-use categories, and considers available water supplies and management strategies to meet both long- and short-term identified water supply needs. The Plateau Water Planning Region (Region J) stretches from the Central Texas Hill Country westward to the Rio Grande and consists of Bandera, Edwards, Kerr, Kinney, Real and Val Verde Counties.

The Plateau Region Planning Group is a voluntary association comprised of members representing a minimum of 11 water-use categories, including at least one representative from each of the six counties and from the three Groundwater Management Areas (GMAs). The Group is charged with addressing the needs of all water users and suppliers within the Region, developing water management strategies to meet identified future water supply needs (including conservation practices), and addressing meaningful responses to future droughts.

Every five years water plans developed by the 16 state-wide water planning regions are merged by the Texas Water Development Board (TWDB) into a State Water Plan. The ultimate goal of the State Water Plan is to identify those policies and actions that may be needed to meet Texas’ near- and long-term water needs based on a reasonable projected use of water, affordable water supply availability, and conservation of the State’s natural resources.

This Plateau Region County Summary Report provides an overview of the six counties’ available water resources, projected population and water demand over the 50-year planning horizon, available existing water supplies, and potential water management strategies. A more detailed look into each county can be found within the 2016 Plateau Region Water Plan located on the TWDB website: http://www.twdb.texas.gov/waterplanning/rwp/plans/2016/J/Region_J_2016_RWP.pdf.

TERMINOLOGY

Population and Water Demand Projections – The TWDB utilized the 2010 Census data in developing the county-level population and water demand projections. Water demand projections were based upon a dry year. According to the National Drought Mitigation Center, 2009 was the driest year and was used as the base for the water demand projections.

Source Water Availability – The maximum amount of raw water available from a source during a drought of record, regardless of whether the supply is physically or legally accessible by a water-user group (WUG) or a wholesale water provider (WWP).

Existing Infrastructure Water Supply – The amount of water that is physically and legally available for use by a WUG. Often this volume of water is defined by infrastructure capacity.

Water Need – A need for water is identified when existing water supplies are less than projected water demands for the same WUG within any planning decade.

Water Management Strategy – A strategy developed to create additional, new water for those areas where water needs have been determined. Strategies are evaluated based on criteria such as: water quantity, water quality, reliability, financial costs and environmental impacts.
Who are my water-planning representatives? Jonathan Letz – Planning Group Chairman; David Maulk – Bandera County RAGD (General Manager); W. Feathergail Wilson – County Planning Representative and Homer T. Stevens – County Planning Representative.

What are the sources of my water supplies?
- Edwards-Trinity (Plateau) Aquifer
- Trinity Aquifer
- Surface Water:
  - Guadalupe River Tributaries
  - Nueces River
  - San Antonio / Medina River
**Bandera County Strategy**

**City of Bandera**
- Reuse treated wastewater effluent for municipal irrigation use
- Promote, design & install rainwater harvesting systems
- Additional Lower Trinity well and lay necessary pipeline
- Additional Middle Trinity wells within City water infrastructure

**County-Other**
- Water loss audit and main-line repair
- Vegetative land use management
- Drought management (BCRAGD)
- Additional well for Pebble Beach subdivision
- Additional wells to provide emergency supply to VFD
- Additional wells to help Medina Lake area

**Irrigation**
- Additional groundwater wells

**Livestock**
- Additional groundwater well
Who are my water-planning representatives? Jonathan Letz – Planning Group Chairman and Lee Sweeten – County Planning Representative.

What are the sources of my water supplies?
- Edwards-Trinity (Plateau) Aquifer
- Nueces River Alluvium Aquifer
- Surface Water:
  - Colorado River
  - Nueces River
**Water User Group** | **Strategy**
---|---
City of Rocksprings | Water loss audit and main-line repair  
|  | Additional groundwater well
County-Other | Water loss audit and main-line repair for Barksdale WSC  
|  | Additional well in the Nueces River Alluvium Aquifer  
|  | Vegetative land use management
Livestock | Additional groundwater wells
Mining | Additional groundwater wells
Who are my water-planning representatives? Jonathan Letz – Planning Group Chairman; Ray Buck – UGRA (General Manager); Gene Williams – HGCD (General Manager); Charlie Wiedenfeld – County Planning Representative and Stuart Barron – County Planning Representative.

What are the sources of my water supplies?
- Edwards-Trinity (Plateau) Aquifer
- Trinity Aquifer
- ASR
- Surface Water:
  - Guadalupe River
### Kerr County Population Projection

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<thead>
<tr>
<th>Year</th>
<th>Population</th>
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<tbody>
<tr>
<td>2020</td>
<td>52,644</td>
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<tr>
<td>2030</td>
<td>55,407</td>
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<tr>
<td>2060</td>
<td>60,280</td>
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<tr>
<td>2070</td>
<td>61,725</td>
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</tbody>
</table>

### 2020 Kerr Co. Water Demands (Acre-Feet per Year)

- **Municipal**: 5,201
- **Irrigation**: 842
- **Livestock**: 890
- **Mining**: 76
- **Manufacturing**: 25

### 2020 Kerr Co. Water Demands (Acre-Feet per Year)

<table>
<thead>
<tr>
<th>Year</th>
<th>Municipal</th>
<th>Irrigation</th>
<th>Livestock</th>
<th>Mining</th>
<th>Manufacturing</th>
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</thead>
<tbody>
<tr>
<td>2020</td>
<td>5,201</td>
<td>842</td>
<td>890</td>
<td>76</td>
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<td>2070</td>
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### Kerr County Supply & Demand Projection (Acre-Feet per Year)

- **Water Supply / Demand**

### Water User Group

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<thead>
<tr>
<th>Water User Group</th>
<th>Strategy</th>
</tr>
</thead>
</table>
| City of Kerrville| Increase wastewater reuse  
                                 Water loss audit and main-line repair  
                                 Purchase water from UGRA  
                                 Increased water treatment and ASR capacity |
| Loma Vista WSC   | Conservation: Public information  
                                 Additional groundwater well |
| County-Other     | Conservation: Public information  
                                 Vegetative land use management  
                                 Acquisition of surface water rights  
                                 Construction of an off-channel surface water storage \( ^1 \)\( ^{EKCRWSP} \)  
                                 Construction of surface water treatment facilities and transmission lines \( ^2 \)\( ^{EKCRWSP} \)  
                                 Construction of ASR facility \( ^2 \)\( ^{EKCRWSP} \)  
                                 Construction of wellfield for dense, rural areas \( ^2 \)\( ^{EKCRWSP} \)  
                                 Construction of desalination plant \( ^2 \)\( ^{EKCRWSP} \)  
                                 Construction of an Ellenburger Aquifer water supply well \( ^2 \)\( ^{EKCRWSP} \) |
| Irrigation & Mining| Additional groundwater well |

Note: Strategies listed below for Eastern Kerr County are denoted as \( ^2 \)\( ^{EKCRWSP} \)
Who are my water-planning representatives? Jonathan Letz – Planning Group Chairman; Rene Villareal – Kinney County GCD Representative and Tully Shahan – County Planning Representative.

What are the sources of my water supplies?
- Edwards-Trinity (Plateau) Aquifer
- Austin Chalk Aquifer
- Edwards – BFZ Aquifer
- Surface Water:
  - Rio Grande
**Water User Group** | **Strategy**
--- | ---
City of Brackettville | Water loss audit and main-line repair
| Increase supply to Spoford with new water line
| Increase storage facility
Fort Clark Springs MUD | Increase storage facility
County-Other | Vegetative land use management
Livestock | Additional groundwater wells

What are the sources of my water supplies?
- Edwards-Trinity (Plateau) Aquifer
- Trinity Aquifer
- Nueces River Alluvium Aquifer
- Surface Water:
  - Nueces River
### Water User Group and Strategy

<table>
<thead>
<tr>
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<th>Strategy</th>
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</table>
| City of Camp Wood| Conservation: Public information  
Additional groundwater wells |
| City of Leakey   | Water loss audit and main-line repair  
Additional groundwater well  
Develop interconnections between wells within the City |
| County-Other     | Water loss audit and main-line repair for Real WSC  
Vegetative land use management  
Additional well for Oakmont Saddle WSC |
| Livestock        | Additional groundwater wells |
Who are my water-planning representatives? Jonathan Letz – Planning Group Chairman; Jerry Simpton – Planning Group Vice Chairman; Otila Gonzalez – County Planning Representative; Mitch Lomas – County Planning Representative and Thomas M. Qualia – County Planning Representative.

What are the sources of my water supplies?
- Edwards-Trinity (Plateau) Aquifer
- Surface Water:
  - Rio Grande
**Water User Group**

<table>
<thead>
<tr>
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</thead>
</table>
| City of Del Rio  | Water loss audit and main-line repair  
Drill & equip new well, connect to distribution system  
Water treatment plant expansion  
Develop a wastewater reuse program |
| County-Other     | Vegetative land use management |
| Mining           | Additional groundwater well |
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