March 31, 2009

Mr. Danny F. Vance
Trinity River Authority
P.O. Box 240
Arlington, TX 76004

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Mr. Vance:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

Managed available groundwater is defined in the Texas State Water Code as the amount of water that may be permitted by a district for beneficial use in accordance with the desired future condition of the aquifer as determined under Texas State Water Code, Section 36.108. For various planning purposes the managed available groundwater estimates have been reported at the combined aquifer, county, river basin, regional water planning area, groundwater management area, groundwater conservation district (if applicable), and geographic area (if designated) level.

We understand that groundwater conservation district have options on how to distribute managed available groundwater in a groundwater management area; therefore we encourage open communication and coordination between groundwater conservation districts, regional water planning groups, and the TWDB to ensure that managed available groundwater reported in regional water plans and groundwater management plans are not in conflict. In addition, please note that estimates of managed available groundwater are based on the best available scientific tools that can be used to evaluate managed available groundwater and that these estimates may be based on assumptions made on the magnitude and distribution of pumping in the aquifer.

Therefore, it is important for groundwater conservation districts to monitor whether or not their management of pumping is achieving their desired future conditions. Districts are encouraged to work with the TWDB to better define available groundwater as better data become available for how the aquifer responds to the actual magnitude and distribution of pumping now and in the future.

Sincerely,

J. Kevin Ward
Executive Administrator

Attachment A: List of Desired Future Conditions Submitted by the Groundwater Conservation Districts
Attachment B: GAM Run 08-84mag

c w/atts.: Cary Betz, Texas Commission of Environmental Quality Water Supply Division
Kelly Mills, Texas Commission of Environmental Quality Groundwater Planning and Assessment Division
Robert Mace, Ph.D., P.G., Deputy Executive Administrator, TWDB, Water Science and Conservation
Rima Petrossian, P.G., Manager, TWDB Groundwater Technical Assistance Section
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Mark Lowry, Turner Collie & Braden

March 31, 2009

Ms. Nancy Rose
Sulphur River Basin Authority
911 North Bishop St, Ste C-104
Wake Village, TX 75501

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Ms. Rose:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

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Mark Lowry, Turner Collie & Braden

TEXAS WATER DEVELOPMENT BOARD

March 31, 2009

Mr. Jerry Clark
Sabine River Authority
P.O. Box 579
Orange, TX 77631

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Mr. Clark:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

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TEXAS WATER DEVELOPMENT BOARD

March 31, 2009

Mr. Thomas G. Mason
Lower Colorado River Authority
P.O. Box 220
Austin, TX 78767

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Mr. Mason:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

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Executive Administrator

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March 31, 2009

Mr. Phil Ford
Brazos River Authority
P.O. Box 7555
Waco, TX 76714

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Mr. Ford:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

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March 31, 2009

Mr. Mike Massey
Upper Trinity Groundwater Conservation District
P.O. Box 1786
Granbury, TX 76048

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Mr. Massey:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

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March 31, 2009

The Honorable John Firth
Tablerock Groundwater Conservation District
620 E. Main
Gatesville, TX 76528

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Judge Firth:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

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TEXAS WATER DEVELOPMENT BOARD

March 31, 2009

Mr. Randy McGuire
Saratoga Underground Water Conservation District
P.O. Box 231
Lampasas, TX 76550

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Mr. McGuire:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

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March 31, 2009

Mr. Gary Westbrook
Post Oak Savannah Groundwater Conservation District
P.O. Box 92
310 E. Ave. C
Milano, TX 76556

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Mr. Westbrook:

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March 31, 2009

Ms. Cheryl Maxwell
Clearwater Underground Water Conservation District
P.O. Box 729
Belton, TX 76513

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Ms. Maxwell:

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Kerry Maroney, Biggs & Mathews
Mark Lowry, Turner Collie & Braden

March 31, 2009

Mr. Russell Laughlin
Northern Trinity Groundwater Conservation District
13600 Heritage Parkway
Suite 200
www.hillwood.com
Fort Worth, TX 76177

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Mr. Laughlin:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

Managed available groundwater is defined in the Texas State Water Code as the amount of water that may be permitted by a district for beneficial use in accordance with the desired future condition of the aquifer as determined under Texas State Water Code, Section 36.108. For various planning purposes the managed available groundwater estimates have been reported at the combined aquifer, county, river basin, regional water planning area, groundwater management area, groundwater conservation district (if applicable), and geographic area (if designated) level.

We understand that groundwater conservation district have options on how to distribute managed available groundwater in a groundwater management area; therefore we encourage open communication and coordination between groundwater conservation districts, regional water planning groups, and the TWDB to ensure that managed available groundwater reported in regional water plans and groundwater management plans are not in conflict. In addition, please note that estimates of managed available groundwater are based on the best available scientific tools that can be used to evaluate managed available groundwater and that these estimates may be based on assumptions made on the magnitude and distribution of pumping in the aquifer.

Therefore, it is important for groundwater conservation districts to monitor whether or not their management of pumping is achieving their desired future conditions. Districts are encouraged to work with the TWDB to better define available groundwater as better data become available for how the aquifer responds to the actual magnitude and distribution of pumping now and in the future.

Sincerely,

J. Kevin Ward
Executive Administrator

Attachment A: List of Desired Future Conditions Submitted by the Groundwater Conservation Districts
Attachment B: GAM Run 08-84mag

c w/atts.: Cary Betz, Texas Commission of Environmental Quality Water Supply Division
Kelly Mills, Texas Commission of Environmental Quality Groundwater Planning and Assessment Division
Robert Mace, Ph.D., P.G., Deputy Executive Administrator, TWDB, Water Science and Conservation
Rima Petrossian, P.G., Manager, TWDB Groundwater Technical Assistance Section
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Kerry Maroney, Biggs & Mathews
Mark Lowry, Turner Collie & Braden

March 31, 2009

Mr. Joe Cooper
Middle Trinity Groundwater Conservation District
150 North Harbin Dr., Suite 434
Stephenville, TX 76401

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Mr. Cooper:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

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Executive Administrator

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Mark Lowry, Turner Collie & Braden

March 31, 2009

Ms. Tricia Law
McLennan County Groundwater Conservation District
3015 Bellmead Dr.
Waco, TX 76705

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Ms. Law:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

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Executive Administrator

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Mark Lowry, Turner Collie & Braden

March 31, 2009

Mr. Rodney Carlisle
Fox Crossing Water District
P.O. Box 926
Goldthwaite, TX 76844

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Mr. Carlisle:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

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Executive Administrator

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Mark Lowry, Turner Collie & Braden

TEXAS WATER DEVELOPMENT BOARD

March 31, 2009

Mr. Richard Bowers
Central Texas Groundwater Conservation District
225 S. Pierce
P.O. Box 870
Burnet, TX 78611

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Mr. Bowers:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

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Executive Administrator

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March 31, 2009

Mr. John Burke
Aqua Water Supply Corporation
P.O. Drawer P
Bastrop, TX 78602

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Mr. Burke:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

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J. Kevin Ward
Executive Administrator

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March 31, 2009

The Honorable Dale Spurgin
Region G
P.O. Box 148
Anson, TX 79501

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Judge Spurgin:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

Managed available groundwater is defined in the Texas State Water Code as the amount of water that may be permitted by a district for beneficial use in accordance with the desired future condition of the aquifer as determined under Texas State Water Code, Section 36.108. For various planning purposes the managed available groundwater estimates have been reported at the combined aquifer, county, river basin, regional water planning area, groundwater management area, groundwater conservation district (if applicable), and geographic area (if designated) level.

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March 31, 2009

Mr. John Grant
Colorado River Municipal Water District
P.O. Box 869
Big Spring, TX 79721

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Mr. Grant:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

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March 31, 2009

Mr. James Parks
North Texas Municipal Water District
P.O. Box 2408
Wylie, TX 75098

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Mr. Parks:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

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March 31, 2009

Mr. Curtis Campbell
Red River Authority of Texas
P.O. Box 240
Wichita Falls, TX 76307

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Mr. Campbell:

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c w/atts.: Cary Betz, Texas Commission of Environmental Quality Water Supply Division
Kelly Mills, Texas Commission of Environmental Quality Groundwater Planning and Assessment Division
Robert Mace, Ph.D., P.G., Deputy Executive Administrator, TWDB, Water Science and Conservation
Rima Petrossian, P.G., Manager, TWDB Groundwater Technical Assistance Section
Cindy Ridgeway, P.G., Manager, TWDB Groundwater Availability Modeling Section
Shirley Wade, Ph.D., P.G., Groundwater Modeler, TWDB Groundwater Availability Modeling Section
Carolyn Brittin, Deputy Executive Administrator, TWDB Water Resources Planning and Information
David Meesey, Manager, TWDB Regional Water Planning Section
Matt Nelson, Planner, Region G, TWDB Regional Water Planning Section
Angela Masloff, Planner, Region C, TWDB Regional Water Planning Section
Temple McKinnon, Planner, North East Texas Region, TWDB Regional Water Planning Section
Angela Kennedy, Planner, Region F, TWDB Regional Water Planning Section
Tom Gooch, Freese & Nichols, Inc.
Stephanie Griffin, Freese & Nichols, Inc.
Simone Kiel, Freese & Nichols, Inc.
Ray Flemons, Bucher, Willis & Ratliff
David Dunn, HDR Engineering
Kerry Maroney, Biggs & Mathews
Mark Lowry, Turner Collie & Braden

March 31, 2009

Mr. Jim Thompson
Region D
P.O. Box 1107
Atlanta, TX 75551

Re: Managed available groundwater estimates for the Trinity Aquifer in Groundwater Management Area 8

Dear Mr. Thompson:

The Texas State Water Code, Section 36.108, Subsection (o), states that Texas Water Development Board's executive administrator shall provide each district and regional water planning group located wholly or partly within a groundwater management area with the managed available groundwater in the management area based upon the desired future condition of the groundwater resource. Attachment A lists the desired future conditions submitted by the groundwater conservation districts. This letter and Attachment B (GAM Run 08-84) are in response to this directive.

Managed available groundwater is defined in the Texas State Water Code as the amount of water that may be permitted by a district for beneficial use in accordance with the desired future condition of the aquifer as determined under Texas State Water Code, Section 36.108. For various planning purposes the managed available groundwater estimates have been reported at the combined aquifer, county, river basin, regional water planning area, groundwater management area, groundwater conservation district (if applicable), and geographic area (if designated) level.

We understand that groundwater conservation district have options on how to distribute managed available groundwater in a groundwater management area; therefore we encourage open communication and coordination between groundwater conservation districts, regional water planning groups, and the TWDB to ensure that managed available groundwater reported in regional water plans and groundwater management plans are not in conflict. In addition, please note that estimates of managed available groundwater are based on the best available scientific tools that can be used to evaluate managed available groundwater and that these estimates may be based on assumptions made on the magnitude and distribution of pumping in the aquifer.

Therefore, it is important for groundwater conservation districts to monitor whether or not their management of pumping is achieving their desired future conditions. Districts are encouraged to work with the TWDB to better define available groundwater as better data become available for how the aquifer responds to the actual magnitude and distribution of pumping now and in the future.

Sincerely,

J. Kevin Ward
Executive Administrator

Attachment A: List of Desired Future Conditions Submitted by the Groundwater Conservation Districts
Attachment B: GAM Run 08-84mag

c w/atts.: Cary Betz, Texas Commission of Environmental Quality Water Supply Division
Kelly Mills, Texas Commission of Environmental Quality Groundwater Planning and Assessment Division
Robert Mace, Ph.D., P.G., Deputy Executive Administrator, TWDB, Water Science and Conservation
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Kerry Maroney, Biggs & Mathews
Mark Lowry, Turner Collie & Braden

Attachment A
Desired Future Conditions Submitted by the Groundwater Conservation Districts

As noted in your letter dated October 6, 2008, and memorandum dated December 15, 2008, the submitted desired future condition for the northern segment of the Trinity Aquifer in Groundwater Management Area 8 was as follows:

Bell County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 134 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 155 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 286 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 319 feet after 50 years.

Bosque County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 26 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 33 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 201 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 220 feet after 50 years.

Brown County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 1 foot after 50 years.

Burnet County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 11 feet after 50 years.

- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 29 feet after 50 years.

Callahan County

- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 2 feet after 50 years.

Collin County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 298 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 247 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 224 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 236 feet after 50 years.

Comanche County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 2 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 11 feet after 50 years.

Cooke County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 26 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 42 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 60 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 78 feet after 50 years.

Coryell County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 15 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 15 feet after 50 years.

- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 156 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 179 feet after 50 years.

Dallas County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 240 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 224 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 263 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 290 feet after 50 years.

Delta County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 175 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 162 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 162 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 159 feet after 50 years.

Denton County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 98 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 134 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 180 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 214 feet after 50 years.

Eastland County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 0 feet after 50 years.

Ellis County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 265 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 283 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 336 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 362 feet after 50 years.

Erath County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 11 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 27 feet after 50 years.

Falls County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 279 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 354 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 459 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 480 feet after 50 years.

Fannin County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 212 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 196 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 182 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 181 feet after 50 years.

Grayson County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 175 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 161 feet after 50 years.

- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 160 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 165 feet after 50 years.

Hamilton County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 2 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 39 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 51 feet after 50 years.

Hill County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 209 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 253 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 381 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 406 feet after 50 years.

Hood County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 2 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 16 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 56 feet after 50 years.

Hunt County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 286 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 245 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 215 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 223 feet after 50 years.

Johnson County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 37 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 83 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 208 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 234 feet after 50 years.

Kaufman County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 303 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 286 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 295 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 312 feet after 50 years.

Lamar County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 132 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 130 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 136 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 134 feet after 50 years.

Lampasas County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 12 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 23 feet after 50 years.

Limestone County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 328 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 392 feet after 50 years.

- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 475 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 492 feet after 50 years.

McLennan County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 251 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 291 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 489 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 527 feet after 50 years.

Milam County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 252 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 294 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 337 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 344 feet after 50 years.

Mills County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 3 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 12 feet after 50 years.

Montague County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 3 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 12 feet after 50 years.

Navarro County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 344 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 353 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 399 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 413 feet after 50 years.

Parker County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 5 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 6 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 16 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 40 feet after 50 years.

Red River County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 82 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 77 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 78 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 78 feet after 50 years.

Rockwall County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 346 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 272 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 248 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 265 feet after 50 years.

Somervell County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 4 feet after 50 years.

- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 53 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 113 feet after 50 years.

Tarrant County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 33 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 75 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 160 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 173 feet after 50 years.

Taylor County

- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 3 feet after 50 years.

Travis County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 124 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 61 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 98 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 116 feet after 50 years.

Williamson County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 108 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 88 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 142 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 166 feet after 50 years.

Wise County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 4 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 14 feet after 50 years.

- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 23 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 53 feet after 50 years.

Attachment B

GAM Run 08-84mag

GAM Run 08-84mag

by Shirley C. Wade, P.G.
Texas Water Development Board
Groundwater Availability Modeling Section
(512) 936-0883
March 5, 2009

REQUESTOR:

Ms. Cheryl Maxwell of the Clearwater Underground Water Conservation District acting on behalf of Groundwater Management Area 8.

DESCRIPTION OF REQUEST:

In a letter dated October 6, 2008, Ms. Cheryl Maxwell provided the Texas Water Development Board (TWDB) with the desired future conditions for the Trinity Aquifer in Groundwater Management Area 8 and requested that TWDB estimate managed available groundwater values. A memorandum dated December 15, 2008 provided clarification to the desired future conditions outlined in the letter dated October 6, 2008. In order to match the results of GAM Run 08-06 (Donnelly, 2008) that memorandum made the following corrections:

- the average drawdown for Grayson County in the Glen Rose portion of the Trinity Aquifer was changed from 160 feet to 161 feet,
- the average drawdown for Grayson County in the Hensell portion of the Trinity Aquifer was changed from 161 feet to 160 feet,
- the average drawdown for Brown County in the Hosston portion of the Trinity Aquifer was changed from 2 feet to 1 foot, and
- the average drawdown for Somervell County in the Hosston portion of the Trinity Aquifer was changed from 114 to 113 feet.

This groundwater availability modeling run presents the managed available groundwater for the Trinity Aquifer in Groundwater Management Area 8.

DESIRED FUTURE CONDITIONS:

Desired future conditions for the Trinity Aquifer submitted to TWDB by the groundwater conservation districts in Groundwater Management Area 8:

Bell County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 134 feet after 50 years.

- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 155 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 286 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 319 feet after 50 years.

Bosque County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 26 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 33 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 201 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 220 feet after 50 years.

Brown County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 1 foot after 50 years.

Burnet County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 11 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 29 feet after 50 years.

Callahan County

- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 2 feet after 50 years.

Collin County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 298 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 247 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 224 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 236 feet after 50 years.

Comanche County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 2 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 11 feet after 50 years.

Cooke County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 26 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 42 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 60 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 78 feet after 50 years.

Coryell County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 15 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 15 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 156 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 179 feet after 50 years.

Dallas County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 240 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 224 feet after 50 years.

- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 263 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 290 feet after 50 years.

Delta County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 175 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 162 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 162 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 159 feet after 50 years.

Denton County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 98 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 134 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 180 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 214 feet after 50 years.

Eastland County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 0 feet after 50 years.

Ellis County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 265 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 283 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 336 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 362 feet after 50 years.

Erath County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 11 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 27 feet after 50 years.

Falls County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 279 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 354 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 459 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 480 feet after 50 years.

Fannin County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 212 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 196 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 182 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 181 feet after 50 years.

Grayson County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 175 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 161 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 160 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 165 feet after 50 years.

Hamilton County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 2 feet after 50 years.

- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 39 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 51 feet after 50 years.

Hill County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 209 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 253 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 381 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 406 feet after 50 years.

Hood County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 2 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 16 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 56 feet after 50 years.

Hunt County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 286 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 245 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 215 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 223 feet after 50 years.

Johnson County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 37 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 83 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 208 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 234 feet after 50 years.

Kaufman County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 303 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 286 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 295 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 312 feet after 50 years.

Lamar County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 132 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 130 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 136 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 134 feet after 50 years.

Lampasas County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 12 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 23 feet after 50 years.

Limestone County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 328 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 392 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 475 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 492 feet after 50 years.

McLennan County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 251 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 291 feet after 50 years.

- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 489 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 527 feet after 50 years.

Milam County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 252 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 294 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 337 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 344 feet after 50 years.

Mills County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 3 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 12 feet after 50 years.

Montague County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 0 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 3 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 12 feet after 50 years.

Navarro County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 344 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 353 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 399 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 413 feet after 50 years.

Parker County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 5 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 6 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 16 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 40 feet after 50 years.

Red River County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 82 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 77 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 78 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 78 feet after 50 years.

Rockwall County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 346 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 272 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 248 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 265 feet after 50 years.

Somervell County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 1 foot after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 4 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 53 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 113 feet after 50 years.

Tarrant County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 33 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 75 feet after 50 years.

- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 160 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 173 feet after 50 years.

Taylor County

- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 3 feet after 50 years.

Travis County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 124 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 61 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 98 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 116 feet after 50 years.

Williamson County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 108 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 88 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 142 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 166 feet after 50 years.

Wise County

- From estimated year 2000 conditions, the average drawdown of the Paluxy Aquifer should not exceed approximately 4 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Glen Rose Aquifer should not exceed approximately 14 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hensell Aquifer should not exceed approximately 23 feet after 50 years.
- From estimated year 2000 conditions, the average drawdown of the Hosston Aquifer should not exceed approximately 53 feet after 50 years.

This information is summarized in Table 1.

Table 1. Summary of requested desired future conditions for the Trinity Aquifer in Groundwater Management Area 8.

County	Average water level decrease (feet)			
	Paluxy	Glen Rose	Hensell	Hosston
Bell	134	155	286	319
Bosque	26	33	201	220
Brown	0	0	1	1
Burnet	1	1	11	29
Callahan	n/a	n/a	0	2
Collin	298	247	224	236
Comanche	0	0	2	11
Cooke	26	42	60	78
Coryell	15	15	156	179
Dallas	240	224	263	290
Delta	175	162	162	159
Denton	98	134	180	214
Eastland	0	0	0	0
Ellis	265	283	336	362
Erath	1	1	11	27
Falls	279	354	459	480
Fannin	212	196	182	181
Grayson	175	161	160	165
Hamilton	0	2	39	51
Hill	209	253	381	406
Hood	1	2	16	56
Hunt	286	245	215	223
Johnson	37	83	208	234
Kaufman	303	286	295	312
Lamar	132	130	136	134
Lampasas	0	1	12	23
Limestone	328	392	475	492
McLennan	251	291	489	527
Milam	252	294	337	344
Mills	0	0	3	12
Montague	0	1	3	12
Navarro	344	353	399	413
Parker	5	6	16	40
Red River	82	77	78	78
Rockwall	346	272	248	265
Somervell	1	4	53	113
Tarrant	33	75	160	173
Taylor	n/a	n/a	n/a	3
Travis	124	61	98	116
Williamson	108	88	142	166
Wise	4	14	23	53

EXECUTIVE SUMMARY:

TWDB staff ran the groundwater availability model for the northern part of the Trinity Aquifer and the Woodbine Aquifer to determine the managed available groundwater based on the desired future conditions for the Trinity Aquifer adopted by the groundwater conservation districts in Groundwater Management Area 8. The results (Tables 2, 3, 4, and 5) show 65,025 acre-feet per year of managed available groundwater for the Paluxy Aquifer (of which 89 acre-feet are outside the official aquifer boundary), 7,287 acre-feet per year of managed available groundwater for the Glen Rose Formation (of which 55 acre-feet are outside the official aquifer boundary) , 46,067 acre-feet per year of managed available groundwater for the Hensell Aquifer (of which 342 acre-feet are outside the official aquifer boundary), and 130,340 acre-feet per year of managed available groundwater for the Hosston Aquifer (of which 875 acre-feet are outside the official aquifer boundary)in Groundwater Management Area 8.

METHODS:

This request is based on previous GAM Run 08-06 (Donnelly, 2008). In that simulation, average streamflows and evapotranspiration rates were used for each year of the predictive simulation. Average recharge was used for the first forty-seven years of the simulation, followed by a three-year drought-of-record.

PARAMETERS AND ASSUMPTIONS:

The groundwater availability model for the northern part of the Trinity Aquifer was used for this model run. The parameters and assumptions for this model are described below:

- We used version 1.01 of the groundwater availability model for the northern part of the Trinity Aquifer for this run. See Bené and others (2004) for assumptions and limitations of the model.

- The model includes seven layers, representing the Woodbine Aquifer (Layer 1), the Washita and Fredericksburg Groups (Layer 2), the Paluxy Formation (Layer 3), the Glen Rose Formation (Layer 4), the Hensell Formation (Layer 5), the Pearsall/Cow Creek/Hammett/Sligo Members (Layer 6), and the Hosston Formation (Layer 7). The Trinity Aquifer is comprised of the Paluxy, Hensell, and Hosston formations. The Woodbine, Paluxy, Hensell, and Hosston layers are the main aquifers used in the region.

- The mean absolute error (a measure of the difference between simulated and actual water levels during model calibration) for the four main aquifers in the model (Woodbine, Paluxy, Hensell, and Hosston) for the calibration and verification time periods (1980 to 2000) ranged from approximately 38 to 75 feet. The root mean squared error was less than ten percent of the maximum change in water levels across the model (Bené and others, 2004).

- We used average annual recharge conditions based on climate data from 1980 to 1999 for the simulation. The last three years of the simulation used drought-of-record recharge conditions, which were defined as the years 1954 to 1956.

- The model uses the MODFLOW stream-routing package to simulate the interaction between the aquifer(s) and major intermittent streams flowing in the region. Flow both from the stream to the aquifer and from the aquifer to the stream is allowed, and the direction of flow is determined by the water levels in the aquifer and stream during each stress period in the simulation.

- Spatial and vertical pumpage distribution is described in GAM Run 08-06 (Donnelly, 2008).

Estimates of managed available groundwater were calculated for several geographic areas created by the geographic information systems overlay analysis of counties, groundwater conservation districts, regional water planning areas, major river basins, the boundary extents of Groundwater Management Area 8, and the northern portion of the Trinity Aquifer. These geographically divided sections of managed available groundwater values provide the greatest amount of flexibility to the groundwater management districts for summarizing managed available groundwater for both desired future conditions of the groundwater management area and for district level groundwater management planning. The geographically divided sections of managed available groundwater values also assist the regional water planning areas with their planning efforts. It should be noted that the model included portions of the units that comprise the Trinity Aquifer that spatially fall outside the official aquifer boundaries. We have provided estimates for these outliers separately from areas within the official aquifer boundary. These areas may contain water with total dissolved solids greater than 3,000 part per million.

Table 2. Estimates of managed available groundwater for the Paluxy Aquifer by geographic subdivisions. See Figure 1 to locate Map Reference (MapRef).

MapRef	Aquifer	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
43	N. Trinity-Paluxy	Bell	G	Brazos	Clearwater	8	Bell	n/a	96
45	N. Trinity-Paluxy	Bosque	G	Brazos	None	8	Bosque	n/a	1,013
50	N. Trinity-Paluxy	Brown	F	Brazos	None	8	Brown	n/a	1
52	N. Trinity-Paluxy	Brown	F	Colorado	None	8	Brown	n/a	17
54	N. Trinity-Paluxy	Burnet	K	Brazos	Central Texas	8	Burnet	n/a	141
56	N. Trinity-Paluxy	Burnet	K	Colorado	Central Texas	8	Burnet	n/a	41
59	N. Trinity-Paluxy	Collin	C	Sabine	None	8	Collin	n/a	0
60	N. Trinity-Paluxy-outside	Collin	C	Sabine	None	8	Collin	n/a	0
61	N. Trinity-Paluxy	Collin	C	Trinity	None	8	Collin	n/a	1,762
62	N. Trinity-Paluxy-outside	Collin	C	Trinity	None	8	Collin	n/a	0
64	N. Trinity-Paluxy	Comanche	G	Brazos	Middle Trinity	8	Comanche	n/a	18
66	N. Trinity-Paluxy	Comanche	G	Colorado	Middle Trinity	8	Comance	n/a	1
70	N. Trinity-Paluxy	Cooke	C	Red	None	8	Cooke	n/a	640
71	N. Trinity-Paluxy	Cooke	C	Trinity	None	8	Cooke	n/a	2,888
73	N. Trinity-Paluxy	Coryell	G	Brazos	None	8	Coryell	n/a	254
74	N. Trinity-Paluxy	Dallas	C	Trinity	None	8	Dallas	n/a	433
76	N. Trinity-Paluxy	Delta	D	Sulphur	None	8	Delta	n/a	0
77	N. Trinity-Paluxy-outside	Delta	D	Sulphur	None	8	Delta	n/a	0
78	N. Trinity-Paluxy	Denton	C	Trinity	None	8	Denton	n/a	9,822
80	N. Trinity-Paluxy	Eastland	G	Brazos	None	8	Eastland	n/a	4
82	N. Trinity-Paluxy	Ellis	C	Trinity	None	8	Ellis	n/a	400
83	N. Trinity-Paluxy-outside	Ellis	C	Trinity	None	8	Ellis	n/a	0
85	N. Trinity-Paluxy	Erath	G	Brazos	Middle Trinity	8	Erath	n/a	4,230
87	N. Trinity-Paluxy	Falls	G	Brazos	None	8	Falls	n/a	0

MapRef	Aquifer	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
88	N. Trinity-Paluxy-outside	Falls	G	Brazos	None	8	Falls	n/a	0
90	N. Trinity-Paluxy	Fannin	C	Red	None	8	Fannin	n/a	205
91	N. Trinity-Paluxy	Fannin	C	Sulphur	None	8	Fannin	n/a	0
92	N. Trinity-Paluxy	Fannin	C	Trinity	None	8	Fannin	n/a	83
95	N. Trinity-Paluxy	Grayson	C	Red	None	8	Grayson	n/a	3,863
96	N. Trinity-Paluxy	Grayson	C	Trinity	None	8	Grayson	n/a	845
98	N. Trinity-Paluxy	Hamilton	G	Brazos	None	8	Hamilton	n/a	291
99	N. Trinity-Paluxy	Hill	G	Trinity	None	8	Hill	n/a	48
100	N. Trinity-Paluxy	Hill	G	Brazos	None	8	Hill	n/a	1,206
101	N. Trinity-Paluxy	Hood	G	Trinity	Upper Trinity	8	Hood	n/a	11
103	N. Trinity-Paluxy	Hood	G	Brazos	Upper Trinity	8	Hood	n/a	931
108	N. Trinity-Paluxy	Hunt	D	Sulphur	None	8	Hunt	n/a	0
109	N. Trinity-Paluxy-outside	Hunt	D	Sulphur	None	8	Hunt	n/a	0
111	N. Trinity-Paluxy	Hunt	D	Sabine	None	8	Hunt	n/a	0
112	N. Trinity-Paluxy-outside	Hunt	D	Sabine	None	8	Hunt	n/a	0
113	N. Trinity-Paluxy	Hunt	D	Trinity	None	8	Hunt	n/a	551
114	N. Trinity-Paluxy	Johnson	G	Trinity	None	8	Johnson	n/a	6,791
115	N. Trinity-Paluxy	Johnson	G	Brazos	None	8	Johnson	n/a	2,702
117	N. Trinity-Paluxy-outside	Kaufman	C	Sabine	None	8	Kaufman	n/a	4
119	N. Trinity-Paluxy	Kaufman	C	Trinity	None	8	Kaufman	n/a	13
120	N. Trinity-Paluxy-outside	Kaufman	C	Trinity	None	8	Kaufman	n/a	85
122	N. Trinity-Paluxy	Lamar	D	Red	None	8	Lamar	n/a	0
123	N. Trinity-Paluxy	Lamar	D	Sulphur	None	8	Lamar	n/a	0
124	N. Trinity-Paluxy-outside	Lamar	D	Sulphur	None	8	Lamar	n/a	0
126	N. Trinity-Paluxy	Lampasas	G	Brazos	Saratoga	8	Lampasas	n/a	13

MapRef	Aquifer	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
128	N. Trinity-Paluxy	Lampasas	G	Colorado	Saratoga	8	Lampasas	n/a	0
130	N. Trinity-Paluxy	Limestone	G	Trinity	None	8	Limestone	n/a	0
131	N. Trinity-Paluxy-outside	Limestone	G	Trinity	None	8	Limestone	n/a	0
133	N. Trinity-Paluxy	Limestone	G	Brazos	None	8	Limestone	n/a	0
134	N. Trinity-Paluxy-outside	Limestone	G	Brazos	None	8	Limestone	n/a	0
135	N. Trinity-Paluxy	McLennan	G	Brazos	None	8	McLennan	n/a	231
137	N. Trinity-Paluxy	Milam	G	Brazos	Post Oak Savannah	8	Milam	n/a	0
138	N. Trinity-Paluxy-outside	Milam	G	Brazos	Post Oak Savannah	8	Milam	n/a	0
140	N. Trinity-Paluxy	Mills	K	Brazos	Fox Crossing	8	Mills	n/a	3
142	N. Trinity-Paluxy	Mills	K	Colorado	Fox Crossing	8	Mills	n/a	2
145	N. Trinity-Paluxy	Montague	B	Red	Upper Trinity	8	Montague	n/a	29
147	N. Trinity-Paluxy	Montague	B	Trinity	Upper Trinity	8	Montague	n/a	476
149	N. Trinity-Paluxy	Navarro	C	Trinity	None	8	Navarro	n/a	413
150	N. Trinity-Paluxy-outside	Navarro	C	Trinity	None	8	Navarro	n/a	0
151	N. Trinity-Paluxy	Parker	C	Trinity	Upper Trinity	8	Parker	n/a	9,370
153	N. Trinity-Paluxy	Parker	C	Brazos	Upper Trinity	8	Parker	n/a	430
156	N. Trinity-Paluxy	Red River	D	Red	None	8	Red River	n/a	206
157	N. Trinity-Paluxy-outside	Red River	D	Red	None	8	Red River	n/a	0
159	N. Trinity-Paluxy	Red River	D	Sulphur	None	8	Red River	n/a	267
160	N. Trinity-Paluxy-outside	Red River	D	Sulphur	None	8	Red River	n/a	0
161	N. Trinity-Paluxy-outside	Rockwall	C	Sabine	None	8	Rockwall	n/a	0
162	N. Trinity-Paluxy	Rockwall	C	Trinity	None	8	Rockwall	n/a	958
163	N. Trinity-Paluxy-outside	Rockwall	C	Trinity	None	8	Rockwall	n/a	0

MapRef	Aquifer	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
165	N. Trinity-Paluxy	Somervell	G	Brazos	None	8	Somervell	n/a	120
166	N. Trinity-Paluxy	Tarrant	C	Trinity	Northern Trinity	8	Tarrant	n/a	10,544
169	N. Trinity-Paluxy	Travis	K	Brazos	None	8	Travis	n/a	0
171	N. Trinity-Paluxy	Travis	K	Colorado	None	8	Travis	n/a	3
174	N. Trinity-Paluxy	Williamson	G	Colorado	None	8	Williamson	n/a	10
175	N. Trinity-Paluxy-outside	Williamson	G	Brazos	None	8	Williamson	n/a	0
176	N. Trinity-Paluxy	Williamson	K	Brazos	None	8	Williamson	n/a	0
177	N. Trinity-Paluxy	Williamson	G	Colorado	None	8	Williamson	n/a	1
178	N. Trinity-Paluxy	Williamson	K	Colorado	None	8	Williamson	n/a	0
180	N. Trinity-Paluxy	Wise	C	Trinity	Upper Trinity	8	Wise	n/a	2,559

Aquifer marked as outside with table row shaded denotes that the volume of water is from an area of the model outside the official aquifer boundary.

GCD = Groundwater conservation district.
GeoArea = Geographic areas defined by unique desired future conditions as specified by a groundwater management area.
GMA = Groundwater management area.
MAG = Managed available groundwater in units of acre-feet per year.
Clearwater = Clearwater Underground Water Conservation District
McLennan C. = McLennan County Groundwater Conservation District
N. Trinity = Northern Trinity Groundwater Conservation District
Fox Crossing = Fox Crossing Water District
Saratoga = Saratoga Underground Water Conservation District
RWPA = Regional water planning area.

Table 3. Estimates of managed available groundwater for the Glen Rose Aquifer by geographic subdivisions. See Figure 2 to locate MapRef.

MapRef	Aquifer	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
43	N. Trinity-Glen Rose	Bell	G	Brazos	Clearwater	8	Bell	n/a	880
44	N. Trinity-Glen Rose	Bosque	G	Brazos	None	8	Bosque	n/a	258
49	N. Trinity-Glen Rose	Brown	F	Brazos	None	8	Brown	n/a	0
51	N. Trinity-Glen Rose	Brown	F	Colorado	None	8	Brown	n/a	0
53	N. Trinity-Glen Rose	Burnet	K	Brazos	Central Texas	8	Burnet	n/a	145
55	N. Trinity-Glen Rose	Burnet	K	Colorado	Central Texas	8	Burnet	n/a	60
58	N. Trinity-Glen Rose	Collin	C	Sabine	None	8	Collin	n/a	0
59	N. Trinity-Glen Rose-outside	Collin	C	Sabine	None	8	Collin	n/a	0
60	N. Trinity-Glen Rose	Collin	C	Trinity	None	8	Collin	n/a	0
61	N. Trinity-Glen Rose-outside	Collin	C	Trinity	None	8	Collin	n/a	0
63	N. Trinity-Glen Rose	Comanche	G	Brazos	Middle Trinity	8	Comanche	n/a	0
64	N. Trinity-Glen Rose	Comanche	G	Colorado	Middle Trinity	8	Comanche	n/a	0
68	N. Trinity-Glen Rose	Cooke	C	Red	None	8	Cooke	n/a	0
69	N. Trinity-Glen Rose	Cooke	C	Trinity	None	8	Cooke	n/a	0
70	N. Trinity-Glen Rose	Coryell	G	Brazos	None	8	Coryell	n/a	784
71	N. Trinity-Glen Rose	Dallas	C	Trinity	None	8	Dallas	n/a	0
73	N. Trinity-Glen Rose	Delta	D	Sulphur	None	8	Delta	n/a	0
74	N. Trinity-Glen Rose-outside	Delta	D	Sulphur	None	8	Delta	n/a	0
75	N. Trinity-Glen Rose	Denton	C	Trinity	None	8	Denton	n/a	0
77	N. Trinity-Glen Rose	Eastland	G	Brazos	None	8	Eastland	n/a	0
79	N. Trinity-Glen Rose	Ellis	C	Trinity	None	8	Ellis	n/a	0
80	N. Trinity-Glen Rose-outside	Ellis	C	Trinity	None	8	Ellis	n/a	0

MapRef	Aquifer	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
82	N. Trinity-Glen Rose	Erath	G	Brazos	Middle Trinity	8	Erath	n/a	1
84	N. Trinity-Glen Rose	Falls	G	Brazos	None	8	Falls	n/a	2
85	N. Trinity-Glen Rose-outside	Falls	G	Brazos	None	8	Falls	n/a	0
87	N. Trinity-Glen Rose	Fannin	C	Red	None	8	Fannin	n/a	0
88	N. Trinity-Glen Rose	Fannin	C	Sulphur	None	8	Fannin	n/a	0
89	N. Trinity-Glen Rose	Fannin	C	Trinity	None	8	Fannin	n/a	0
92	N. Trinity-Glen Rose	Grayson	C	Red	None	8	Grayson	n/a	0
93	N. Trinity-Glen Rose	Grayson	C	Trinity	None	8	Grayson	n/a	0
95	N. Trinity-Glen Rose	Hamilton	G	Brazos	None	8	Hamilton	n/a	46
96	N. Trinity-Glen Rose	Hill	G	Trinity	None	8	Hill	n/a	0
97	N. Trinity-Glen Rose	Hill	G	Brazos	None	8	Hill	n/a	10
98	N. Trinity-Glen Rose	Hood	G	Trinity	Upper Trinity	8	Hood	n/a	0
100	N. Trinity-Glen Rose	Hood	G	Brazos	Upper Trinity	8	Hood	n/a	4
105	N. Trinity-Glen Rose	Hunt	D	Sulphur	None	8	Hunt	n/a	0
106	N. Trinity-Glen Rose-outside	Hunt	D	Sulphur	None	8	Hunt	n/a	0
108	N. Trinity-Glen Rose	Hunt	D	Sabine	None	8	Hunt	n/a	0
109	N. Trinity-Glen Rose-outside	Hunt	D	Sabine	None	8	Hunt	n/a	0
110	N. Trinity-Glen Rose	Hunt	D	Trinity	None	8	Hunt	n/a	0
111	N. Trinity-Glen Rose	Johnson	G	Trinity	None	8	Johnson	n/a	4
112	N. Trinity-Glen Rose	Johnson	G	Brazos	None	8	Johnson	n/a	20
114	N. Trinity-Glen Rose-outside	Kaufman	C	Sabine	None	8	Kaufman	n/a	0
116	N. Trinity-Glen Rose	Kaufman	C	Trinity	None	8	Kaufman	n/a	0
117	N. Trinity-Glen Rose-outside	Kaufman	C	Trinity	None	8	Kaufman	n/a	0

MapRef	Aquifer	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
119	N. Trinity-Glen Rose	Lamar	D	Red	None	8	Lamar	n/a	0
120	N. Trinity-Glen Rose	Lamar	D	Sulphur	None	8	Lamar	n/a	0
121	N. Trinity-Glen Rose-outside	Lamar	D	Sulphur	None	8	Lamar	n/a	0
123	N. Trinity-Glen Rose	Lampasas	G	Brazos	Saratoga	8	Lampasas	n/a	769
125	N. Trinity-Glen Rose	Lampasas	G	Colorado	Saratoga	8	Lampasas	n/a	4
127	N. Trinity-Glen Rose	Limestone	G	Trinity	None	8	Limestone	n/a	0
128	N. Trinity-Glen Rose-outside	Limestone	G	Trinity	None	8	Limestone	n/a	0
130	N. Trinity-Glen Rose	Limestone	G	Brazos	None	8	Limestone	n/a	4
131	N. Trinity-Glen Rose-outside	Limestone	G	Brazos	None	8	Limestone	n/a	0
132	N. Trinity-Glen Rose	McLennan	G	Brazos	None	8	McLennan	n/a	265
134	N. Trinity-Glen Rose	Milam	G	Brazos	Post Oak Savannah	8	Milam	n/a	95
135	N. Trinity-Glen Rose-outside	Milam	G	Brazos	Post Oak Savannah	8	Milam	n/a	54
136	N. Trinity-Glen Rose	Mills	K	Brazos	Fox Crossing	8	Mills	n/a	59
138	N. Trinity-Glen Rose	Mills	K	Colorado	Fox Crossing	8	Mills	n/a	7
141	N. Trinity-Glen Rose	Montague	B	Red	Upper Trinity	8	Montague	n/a	0
143	N. Trinity-Glen Rose	Montague	B	Brazos	Upper Trinity	8	Montague	n/a	0
145	N. Trinity-Glen Rose	Navarro	C	Trinity	None	8	Navarro	n/a	0
146	N. Trinity-Glen Rose-outside	Navarro	C	Trinity	None	8	Navarro	n/a	0
147	N. Trinity-Glen Rose	Parker	C	Trinity	Upper Trinity	8	Parker	n/a	189
149	N. Trinity-Glen Rose	Parker	C	Brazos	Upper Trinity	8	Parker	n/a	3
152	N. Trinity-Glen Rose	Red River	D	Red	None	8	Red River	n/a	0

MapRef	Aquifer	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
153	N. Trinity-Glen Rose-outside	Red River	D	Red	None	8	Red River	n/a	0
155	N. Trinity-Glen Rose	Red River	D	Sulphur	None	8	Red River	n/a	0
156	N. Trinity-Glen Rose-outside	Red River	D	Sulphur	None	8	Red River	n/a	0
157	N. Trinity-Glen Rose-outside	Rockwall	C	Sabine	None	8	Rockwall	n/a	0
158	N. Trinity-Glen Rose	Rockwall	C	Trinity	None	8	Rockwall	n/a	0
159	N. Trinity-Glen Rose-outside	Rockwall	C	Trinity	None	8	Rockwall	n/a	0
160	N. Trinity-Glen Rose	Somervell	G	Brazos	None	8	Somervell	n/a	134
161	N. Trinity-Glen Rose	Tarrant	C	Trinity	Northern Trinity	8	Tarrant	n/a	112
164	N. Trinity-Glen Rose	Travis	K	Brazos	None	8	Travis	n/a	4
166	N. Trinity-Glen Rose	Travis	K	Colorado	None	8	Travis	n/a	2,608
168	N. Trinity-Glen Rose	Williamson	G	Brazos	None	8	Williamson	n/a	604
169	N. Trinity-Glen Rose-outside	Williamson	G	Brazos	None	8	Williamson	n/a	1
170	N. Trinity-Glen Rose	Williamson	K	Brazos	None	8	Williamson	n/a	81
171	N. Trinity-Glen Rose	Williamson	G	Colorado	None	8	Williamson	n/a	37
172	N. Trinity-Glen Rose	Williamson	K	Colorado	None	8	Williamson	n/a	37
174	N. Trinity-Glen Rose	Wise	C	Trinity	Upper Trinity	8	Wise	n/a	5

Aquifer marked as outside with table row shaded denotes that the volume of water is from an area of the model outside the official aquifer boundary.

GCD = Groundwater conservation district.

GeoArea = Geographic areas defined by unique desired future conditions as specified by a groundwater management area.

GMA = Groundwater management area.

MAG = Managed available groundwater in units of acre-feet per year.

Clearwater = Clearwater Underground Water Conservation District

McLennan C. = McLennan County Groundwater Conservation District

N. Trinity = Northern Trinity Groundwater Conservation District

Fox Crossing = Fox Crossing Water District

Saratoga = Saratoga Underground Water Conservation District

RWPA = Regional water planning area.

Table 4. Estimates of managed available groundwater for the Hensell Aquifer by geographic subdivisions. See Figure 3 for location of MapRef.

MapRef	Aquifer	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
43	N. Trinity-Hensell	Bell	G	Brazos	Clearwater	8	Bell	n/a	1,099
44	N. Trinity-Hensell	Bosque	G	Brazos	None	8	Bosque	n/a	1,749
48	N. Trinity-Hensell	Brown	F	Brazos	None	8	Brown	n/a	2
50	N. Trinity-Hensell	Brown	F	Colorado	None	8	Brown	n/a	77
52	N. Trinity-Hensell	Burnet	K	Brazos	Central Texas	8	Burnet	n/a	590
54	N. Trinity-Hensell	Burnet	K	Colorado	Central Texas	8	Burnet	n/a	100
56	N. Trinity-Hensell	Callahan	G	Brazos	None	8	Callahan	n/a	9
58	N. Trinity-Hensell	Callahan	G	Colorado	None	8	Callahan	n/a	114
59	N. Trinity-Hensell	Collin	C	Sabine	None	8	Collin	n/a	0
60	N. Trinity-Hensell-outside	Collin	C	Sabine	None	8	Collin	n/a	0
61	N. Trinity-Hensell	Collin	C	Trinity	None	8	Collin	n/a	103
62	N. Trinity-Hensell-outside	Collin	C	Trinity	None	8	Collin	n/a	0
64	N. Trinity-Hensell	Comanche	G	Brazos	Middle Trinity	8	Comanche	n/a	413
65	N. Trinity-Hensell	Comanche	G	Colorado	Middle Trinity	8	Comanche	n/a	6
69	N. Trinity-Hensell	Cooke	C	Red	None	8	Cooke	n/a	298
70	N. Trinity-Hensell	Cooke	C	Trinity	None	8	Cooke	n/a	1,313
71	N. Trinity-Hensell	Coryell	G	Brazos	None	8	Coryell	n/a	1,765
72	N. Trinity-Hensell	Dallas	C	Trinity	None	8	Dallas	n/a	1,121
74	N. Trinity-Hensell	Delta	D	Sulphur	None	8	Delta	n/a	50
75	N. Trinity-Hensell-outside	Delta	D	Sulphur	None	8	Delta	n/a	131
76	N. Trinity-Hensell	Denton	C	Trinity	None	8	Denton	n/a	3,112
78	N. Trinity-Hensell	Eastland	G	Brazos	None	8	Eastland	n/a	73
80	N. Trinity-Hensell	Eastland	G	Colorado	None	8	Eastland	n/a	6

MapRef	Aquifer	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
81	N. Trinity-Hensell	Ellis	C	Trinity	None	8	Ellis	n/a	1,142
82	N. Trinity-Hensell-outside	Ellis	C	Trinity	None	8	Ellis	n/a	0
84	N. Trinity-Hensell	Erath	G	Brazos	Middle Trinity	8	Erath	n/a	9,142
86	N. Trinity-Hensell	Falls	G	Brazos	None	8	Falls	n/a	22
87	N. Trinity-Hensell-outside	Falls	G	Brazos	None	8	Falls	n/a	0
89	N. Trinity-Hensell	Fannin	C	Red	None	8	Fannin	n/a	203
90	N. Trinity-Hensell	Fannin	C	Sulphur	None	8	Fannin	n/a	0
91	N. Trinity-Hensell	Fannin	C	Trinity	None	8	Fannin	n/a	0
94	N. Trinity-Hensell	Grayson	C	Red	None	8	Grayson	n/a	1,929
95	N. Trinity-Hensell	Grayson	C	Trinity	None	8	Grayson	n/a	416
96	N. Trinity-Hensell	Hamilton	G	Brazos	None	8	Hamilton	n/a	1,109
97	N. Trinity-Hensell	Hill	G	Trinity	None	8	Hill	n/a	9
98	N. Trinity-Hensell	Hill	G	Brazos	None	8	Hill	n/a	924
99	N. Trinity-Hensell	Hood	G	Trinity	Upper Trinity	8	Hood	n/a	16
101	N. Trinity-Hensell	Hood	G	Brazos	Upper Trinity	8	Hood	n/a	3,579
106	N. Trinity-Hensell	Hunt	D	Sulphur	None	8	Hunt	n/a	0
107	N. Trinity-Hensell-outside	Hunt	D	Sulphur	None	8	Hunt	n/a	0
109	N. Trinity-Hensell	Hunt	D	Sabine	None	8	Hunt	n/a	0
110	N. Trinity-Hensell-outside	Hunt	D	Sabine	None	8	Hunt	n/a	0
111	N. Trinity-Hensell	Hunt	D	Trinity	None	8	Hunt	n/a	0
112	N. Trinity-Hensell	Johnson	G	Trinity	None	8	Johnson	n/a	349
113	N. Trinity-Hensell	Johnson	G	Brazos	None	8	Johnson	n/a	716
115	N. Trinity-Hensell-outside	Kaufman	C	Sabine	None	8	Kaufman	n/a	9
117	N. Trinity-Hensell	Kaufman	C	Trinity	None	8	Kaufman	n/a	30
118	N. Trinity-Hensell-outside	Kaufman	C	Trinity	None	8	Kaufman	n/a	201

MapRef	Aquifer	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
120	N. Trinity-Hensell	Lamar	D	Red	None	8	Lamar	n/a	660
121	N. Trinity-Hensell	Lamar	D	Sulphur	None	8	Lamar	n/a	0
122	N. Trinity-Hensell-outside	Lamar	D	Sulphur	None	8	Lamar	n/a	1
124	N. Trinity-Hensell	Lampasas	G	Brazos	Saratoga	8	Lampasas	n/a	878
126	N. Trinity-Hensell	Lampasas	G	Colorado	Saratoga	8	Lampasas	n/a	7
128	N. Trinity-Hensell	Limestone	G	Trinity	None	8	Limestone	n/a	0
129	N. Trinity-Hensell-outside	Limestone	G	Trinity	None	8	Limestone	n/a	0
131	N. Trinity-Hensell	Limestone	G	Brazos	None	8	Limestone	n/a	15
132	N. Trinity-Hensell-outside	Limestone	G	Brazos	None	8	Limestone	n/a	0
133	N. Trinity-Hensell	McLennan	G	Brazos	None	8	McLennan	n/a	4,190
135	N. Trinity-Hensell	Milam	G	Brazos	Post Oak Savannah	8	Milam	n/a	36
136	N. Trinity-Hensell-outside	Milam	G	Brazos	Post Oak Savannah	8	Milam	n/a	0
137	N. Trinity-Hensell	Mills	K	Brazos	Fox Crossing	8	Mills	n/a	832
139	N. Trinity-Hensell	Mills	K	Colorado	Fox Crossing	8	Mills	n/a	114
142	N. Trinity-Hensell	Montague	B	Red	Upper Trinity	8	Montague	n/a	20
144	N. Trinity-Hensell	Montague	B	Trinity	Upper Trinity	8	Montague	n/a	342
146	N. Trinity-Hensell	Navarro	C	Trinity	None	8	Navarro	n/a	256
147	N. Trinity-Hensell-outside	Navarro	C	Trinity	None	8	Navarro	n/a	0
148	N. Trinity-Hensell	Parker	C	Trinity	Upper Trinity	8	Parker	n/a	884
150	N. Trinity-Hensell	Parker	C	Brazos	Upper Trinity	8	Parker	n/a	557
153	N. Trinity-Hensell	Red River	D	Red	None	8	Red River	n/a	19
154	N. Trinity-Hensell-outside	Red River	D	Red	None	8	Red River	n/a	0
156	N. Trinity-Hensell	Red River	D	Sulphur	None	8	Red River	n/a	0
157	N. Trinity-	Red River	D	Sulphur	None	8	Red River	n/a	0

MapRef	Aquifer	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
	Hensell-outside								
158	N. Trinity-Hensell-outside	Rockwall	C	Sabine	None	8	Rockwall	n/a	0
159	N. Trinity-Hensell	Rockwall	C	Trinity	None	8	Rockwall	n/a	0
160	N. Trinity-Hensell-outside	Rockwall	C	Trinity	None	8	Rockwall	n/a	0
161	N. Trinity-Hensell	Somervell	G	Brazos	None	8	Somervell	n/a	741
162	N. Trinity-Hensell	Tarrant	C	Trinity	Northern Trinity	8	Tarrant	n/a	2,535
165	N. Trinity-Hensell	Travis	K	Brazos	None	8	Travis	n/a	2
167	N. Trinity-Hensell	Travis	K	Colorado	None	8	Travis	n/a	154
169	N. Trinity-Hensell	Williamson	G	Brazos	None	8	Williamson	n/a	363
170	N. Trinity-Hensell-outside	Williamson	G	Brazos	None	8	Williamson	n/a	0
171	N. Trinity-Hensell	Williamson	K	Brazos	None	8	Williamson	n/a	39
172	N. Trinity-Hensell	Williamson	G	Colorado	None	8	Williamson	n/a	5
173	N. Trinity-Hensell	Williamson	K	Colorado	None	8	Williamson	n/a	8
175	N. Trinity-Hensell	Wise	C	Trinity	Upper Trinity	8	Wise	n/a	1,480

Aquifer marked as outside with table row shaded denotes that the volume of water is from an area of the model outside the official aquifer boundary.

GCD = Groundwater conservation district.
GeoArea = Geographic areas defined by unique desired future conditions as specified by a groundwater management area.
GMA = Groundwater management area.
MAG = Managed available groundwater in units of acre-feet per year.
Clearwater = Clearwater Underground Water Conservation District
McLennan C. = McLennan County Groundwater Conservation District
N. Trinity = Northern Trinity Groundwater Conservation District
Fox Crossing = Fox Crossing Water District
Saratoga = Saratoga Underground Water Conservation District
RWPA = Regional water planning area.

Table 5. Estimates of managed available groundwater for the Hosston Aquifer by geographic subdivisions. See Figure 4 for location of MapRef.

MapRef	Aquifer	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
44	N. Trinity-Hosston	Bell	G	Brazos	Clearwater	8	Bell	n/a	4,993
45	N. Trinity-Hosston	Bosque	G	Brazos	None	8	Bosque	n/a	2,829
49	N. Trinity-Hosston	Brown	F	Brazos	None	8	Brown	n/a	25
51	N. Trinity-Hosston	Brown	F	Colorado	None	8	Brown	n/a	1,923
53	N. Trinity-Hosston	Burnet	K	Brazos	Central Texas	8	Burnet	n/a	1,847
55	N. Trinity-Hosston	Burnet	K	Colorado	Central Texas	8	Burnet	n/a	622
57	N. Trinity-Hosston	Callahan	G	Brazos	None	8	Callahan	n/a	1,783
59	N. Trinity-Hosston	Callahan	G	Colorado	None	8	Callahan	n/a	1,871
60	N. Trinity-Hosston	Collin	C	Sabine	None	8	Collin	n/a	0
61	N. Trinity-Hosston-outside	Collin	C	Sabine	None	8	Collin	n/a	0
62	N. Trinity-Hosston	Collin	C	Trinity	None	8	Collin	n/a	239
63	N. Trinity-Hosston-outside	Collin	C	Trinity	None	8	Collin	n/a	0
65	N. Trinity-Hosston	Comanche	G	Brazos	Middle Trinity	8	Comanche	n/a	23,215
66	N. Trinity-Hosston	Comanche	G	Colorado	Middle Trinity	8	Comanche	n/a	68
69	N. Trinity-Hosston	Cooke	C	Red	None	8	Cooke	n/a	346
70	N. Trinity-Hosston	Cooke	C	Trinity	None	8	Cooke	n/a	1,365
71	N. Trinity-Hosston	Coryell	G	Brazos	None	8	Coryell	n/a	913
72	N. Trinity-Hosston	Dallas	C	Trinity	None	8	Dallas	n/a	3,904
74	N. Trinity-Hosston	Delta	D	Sulphur	None	8	Delta	n/a	50
75	N. Trinity-Hosston-outside	Delta	D	Sulphur	None	8	Delta	n/a	131
76	N. Trinity-Hosston	Denton	C	Trinity	None	8	Denton	n/a	6,399
78	N. Trinity-Hosston	Eastland	G	Brazos	None	8	Eastland	n/a	4,412

MapRef	Aquifer	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
80	N. Trinity-Hosston	Eastland	G	Colorado	None	8	Eastland	n/a	225
81	N. Trinity-Hosston	Ellis	C	Trinity	None	8	Ellis	n/a	2,417
82	N. Trinity-Hosston-outside	Ellis	C	Trinity	None	8	Ellis	n/a	0
84	N. Trinity-Hosston	Erath	G	Brazos	Middle Trinity	8	Erath	n/a	15,723
86	N. Trinity-Hosston	Falls	G	Brazos	None	8	Falls	n/a	137
87	N. Trinity-Hosston-outside	Falls	G	Brazos	None	8	Falls	n/a	8
89	N. Trinity-Hosston	Fannin	C	Red	None	8	Fannin	n/a	209
90	N. Trinity-Hosston	Fannin	C	Sulphur	None	8	Fannin	n/a	0
91	N. Trinity-Hosston	Fannin	C	Trinity	None	8	Fannin	n/a	0
94	N. Trinity-Hosston	Grayson	C	Red	None	8	Grayson	n/a	1,930
95	N. Trinity-Hosston	Grayson	C	Trinity	None	8	Grayson	n/a	417
96	N. Trinity-Hosston	Hamilton	G	Brazos	None	8	Hamilton	n/a	698
97	N. Trinity-Hosston	Hill	G	Trinity	None	8	Hill	n/a	4
98	N. Trinity-Hosston	Hill	G	Brazos	None	8	Hill	n/a	946
99	N. Trinity-Hosston	Hood	G	Trinity	Upper Trinity	8	Hood	n/a	37
101	N. Trinity-Hosston	Hood	G	Brazos	Upper Trinity	8	Hood	n/a	6,567
106	N. Trinity-Hosston	Hunt	D	Sulphur	None	8	Hunt	n/a	0
107	N. Trinity-Hosston-outside	Hunt	D	Sulphur	None	8	Hunt	n/a	0
109	N. Trinity-Hosston	Hunt	D	Sabine	None	8	Hunt	n/a	0
110	N. Trinity-Hosston-outside	Hunt	D	Sabine	None	8	Hunt	n/a	0
111	N. Trinity-Hosston	Hunt	D	Trinity	None	8	Hunt	n/a	0
112	N. Trinity-Hosston	Johnson	G	Trinity	None	8	Johnson	n/a	787
113	N. Trinity-Hosston	Johnson	G	Brazos	None	8	Johnson	n/a	1,502
115	N. Trinity-Hosston-outside	Kaufman	C	Sabine	None	8	Kaufman	n/a	32
117	N. Trinity-Hosston	Kaufman	C	Trinity	None	8	Kaufman	n/a	104

MapRef	Aquifer	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
118	N. Trinity-Hosston-outside	Kaufman	C	Trinity	None	8	Kaufman	n/a	703
120	N. Trinity-Hosston	Lamar	D	Red	None	8	Lamar	n/a	660
121	N. Trinity-Hosston	Lamar	D	Sulphur	None	8	Lamar	n/a	0
122	N. Trinity-Hosston-outside	Lamar	D	Sulphur	None	8	Lamar	n/a	1
124	N. Trinity-Hosston	Lampasas	G	Brazos	Saratoga	8	Lampasas	n/a	1,265
126	N. Trinity-Hosston	Lampasas	G	Colorado	Saratoga	8	Lampasas	n/a	181
128	N. Trinity-Hosston	Limestone	G	Trinity	None	8	Limestone	n/a	0
129	N. Trinity-Hosston-outside	Limestone	G	Trinity	None	8	Limestone	n/a	0
131	N. Trinity-Hosston	Limestone	G	Brazos	None	8	Limestone	n/a	50
132	N. Trinity-Hosston-outside	Limestone	G	Brazos	None	8	Limestone	n/a	0
133	N. Trinity-Hosston	McLennan	G	Brazos	None	8	McLennan	n/a	16,004
135	N. Trinity-Hosston	Milam	G	Brazos	Post Oak Savannah	8	Milam	n/a	102
136	N. Trinity-Hosston-outside	Milam	G	Brazos	Post Oak Savannah	8	Milam	n/a	0
137	N. Trinity-Hosston	Mills	K	Brazos	Fox Crossing	8	Mills	n/a	379
139	N. Trinity-Hosston	Mills	K	Colorado	Fox Crossing	8	Mills	n/a	1,005
142	N. Trinity-Hosston	Montague	B	Red	Upper Trinity	8	Montague	n/a	80
144	N. Trinity-Hosston	Montague	B	Trinity	Upper Trinity	8	Montague	n/a	1,727
146	N. Trinity-Hosston	Navarro	C	Trinity	None	8	Navarro	n/a	1,204
147	N. Trinity-Hosston-outside	Navarro	C	Trinity	None	8	Navarro	n/a	0
148	N. Trinity-Hosston	Parker	C	Trinity	Upper Trinity	8	Parker	n/a	2,006
150	N. Trinity-Hosston	Parker	C	Brazos	Upper Trinity	8	Parker	n/a	1,809
153	N. Trinity-Hosston	Red River	D	Red	None	8	Red River	n/a	38
154	N. Trinity-Hosston-	Red River	D	Red	None	8	Red River	n/a	0

MapRef	Aquifer	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
	outside								
156	N. Trinity-Hosston	Red River	D	Sulphur	None	8	Red River	n/a	0
157	N. Trinity-Hosston-outside	Red River	D	Sulphur	None	8	Red River	n/a	0
158	N. Trinity-Hosston-outside	Rockwall	C	Sabine	None	8	Rockwall	n/a	0
159	N. Trinity-Hosston	Rockwall	C	Trinity	None	8	Rockwall	n/a	0
160	N. Trinity-Hosston-outside	Rockwall	C	Trinity	None	8	Rockwall	n/a	0
161	N. Trinity-Hosston	Somervell	G	Brazos	None	8	Somervell	n/a	1,490
162	N. Trinity-Hosston	Tarrant	C	Trinity	Northern Trinity	8	Tarrant	n/a	5,556
164	N. Trinity-Hosston	Taylor	G	Brazos	None	8	Taylor	n/a	153
166	N. Trinity-Hosston	Taylor	G	Colorado	None	8	Taylor	n/a	278
167	N. Trinity-Hosston	Travis	K	Brazos	None	8	Travis	n/a	2
169	N. Trinity-Hosston	Travis	K	Colorado	None	8	Travis	n/a	1,117
171	N. Trinity-Hosston	Williamson	G	Brazos	None	8	Williamson	n/a	546
172	N. Trinity-Hosston-outside	Williamson	G	Brazos	None	8	Williamson	n/a	0
173	N. Trinity-Hosston	Williamson	K	Brazos	None	8	Williamson	n/a	37
174	N. Trinity-Hosston	Williamson	G	Colorado	None	8	Williamson	n/a	15
175	N. Trinity-Hosston	Williamson	K	Colorado	None	8	Williamson	n/a	16
177	N. Trinity-Hosston	Wise	C	Trinity	Upper Trinity	8	Wise	n/a	5,238

Aquifer marked as outside with table row shaded denotes that the volume of water is from an area of the model outside the official aquifer boundary.

GCD = Groundwater conservation district.

GeoArea = Geographic areas defined by unique desired future conditions as specified by a groundwater management area.

GMA = Groundwater management area.

MAG = Managed available groundwater in units of acre-feet per year.

Clearwater = Clearwater Underground Water Conservation District

McLennan C. = McLennan County Groundwater Conservation District

N. Trinity = Northern Trinity Groundwater Conservation District
Fox Crossing = Fox Crossing Water District
Saratoga = Saratoga Underground Water Conservation District
RWPA = Regional water planning area.

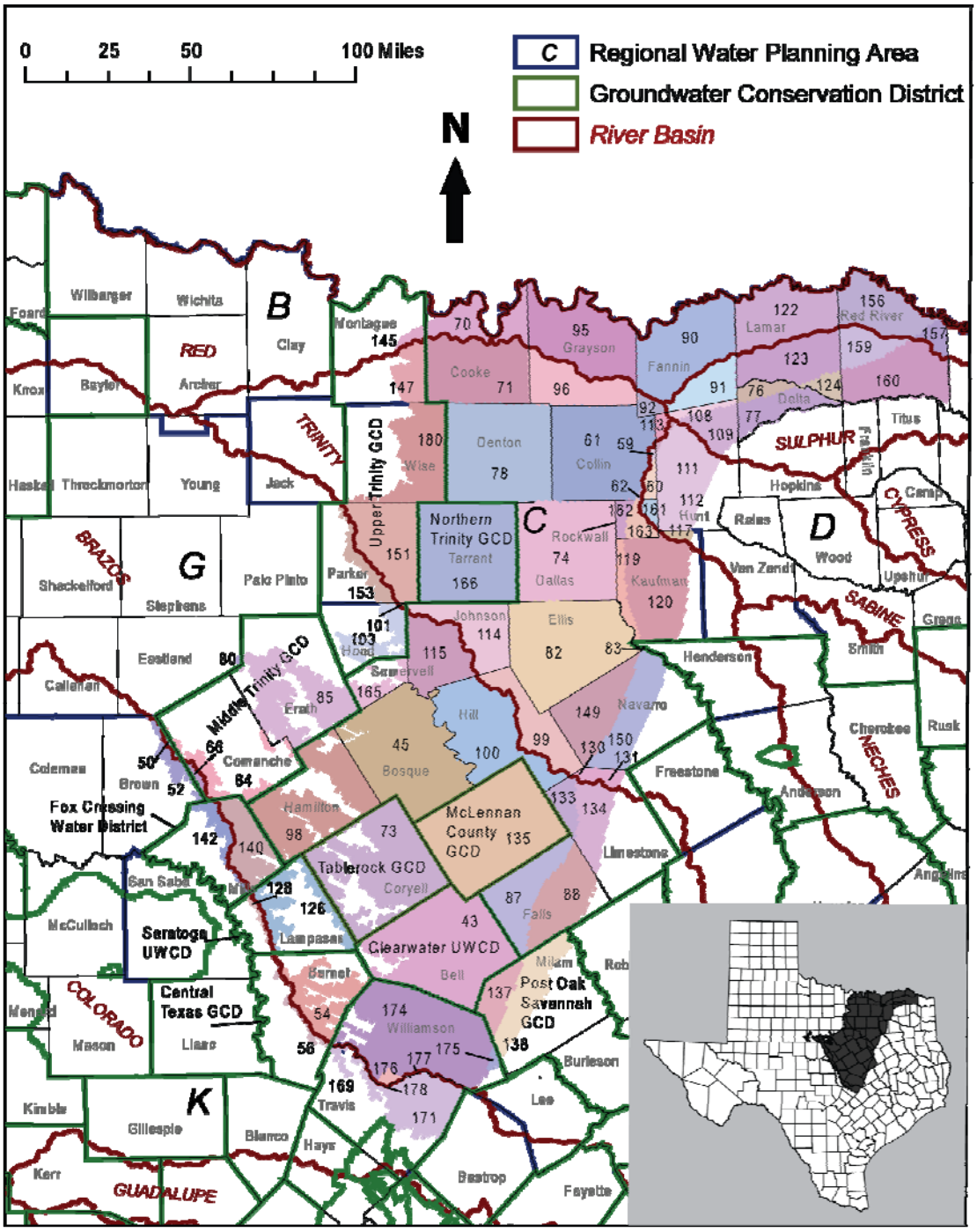


Figure 1. Geographic subdivisions of managed available groundwater for the Paluxy Aquifer. See Table 2 for descriptions of the geographic subdivisions.

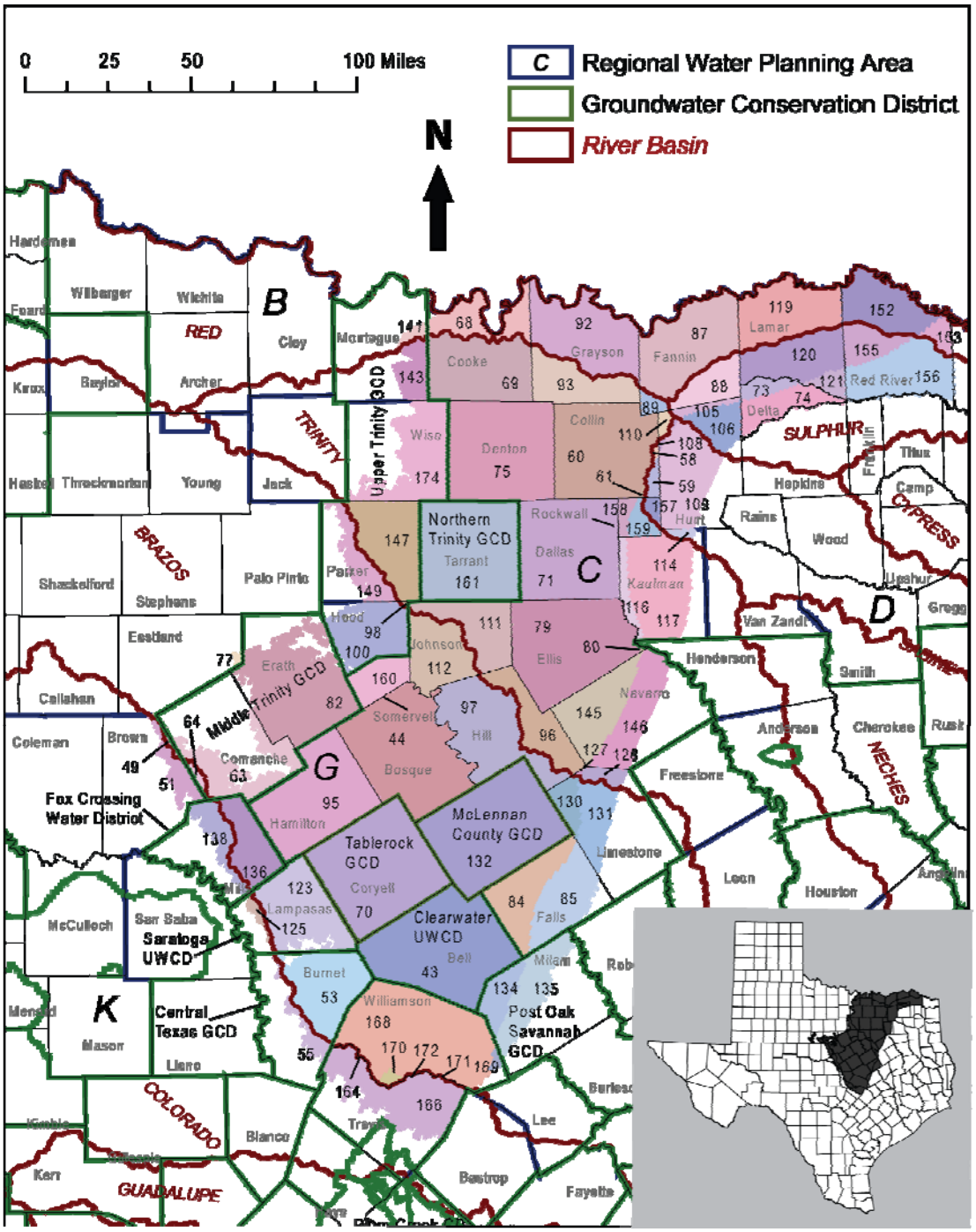


Figure 2. Geographic subdivisions of managed available groundwater for the Glen Rose Aquifer. See Table 3 for descriptions of the geographic subdivisions.

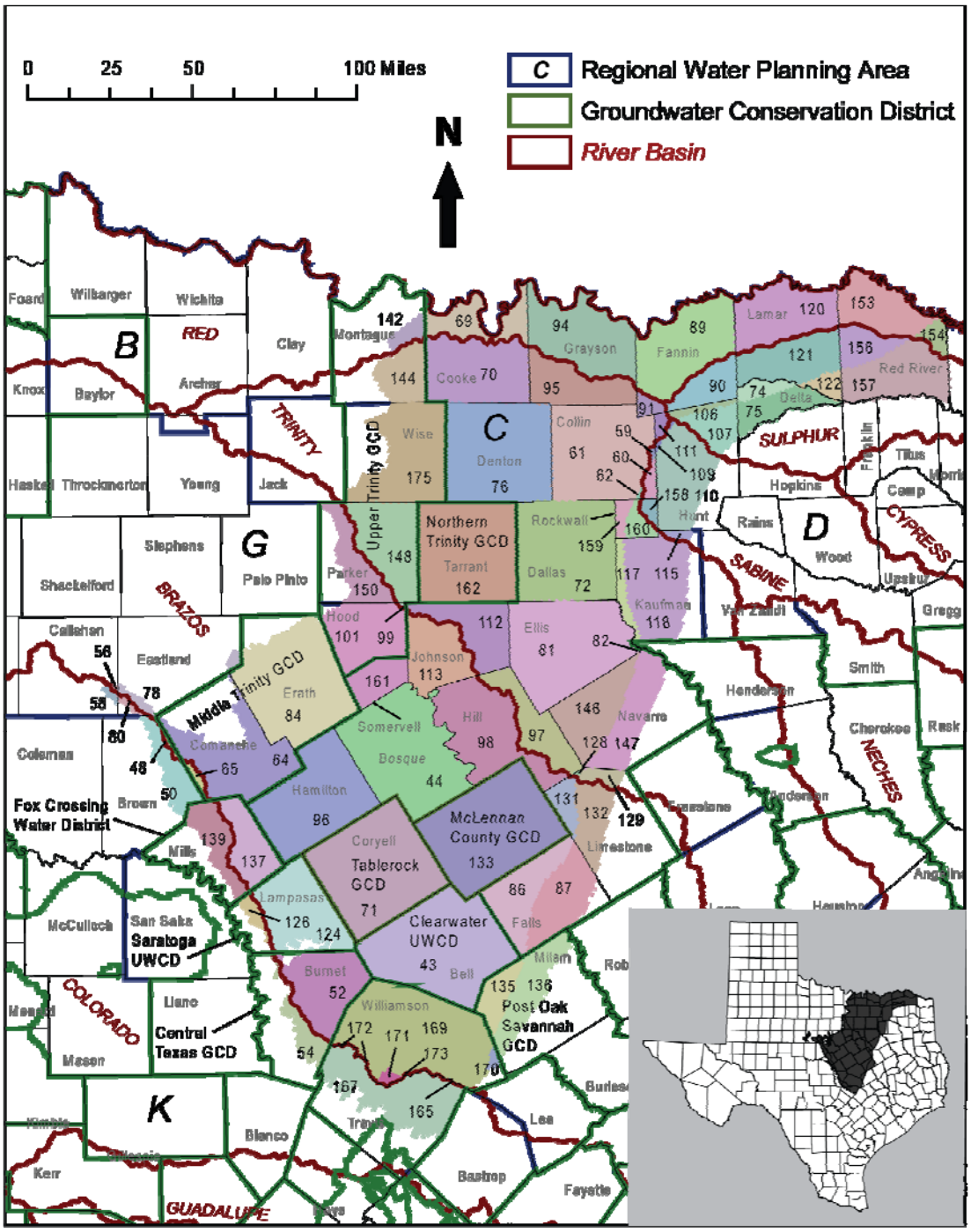


Figure 3. Geographic subdivisions of managed available groundwater for the Hensell Aquifer. See Table 4 for descriptions of the geographic subdivisions.

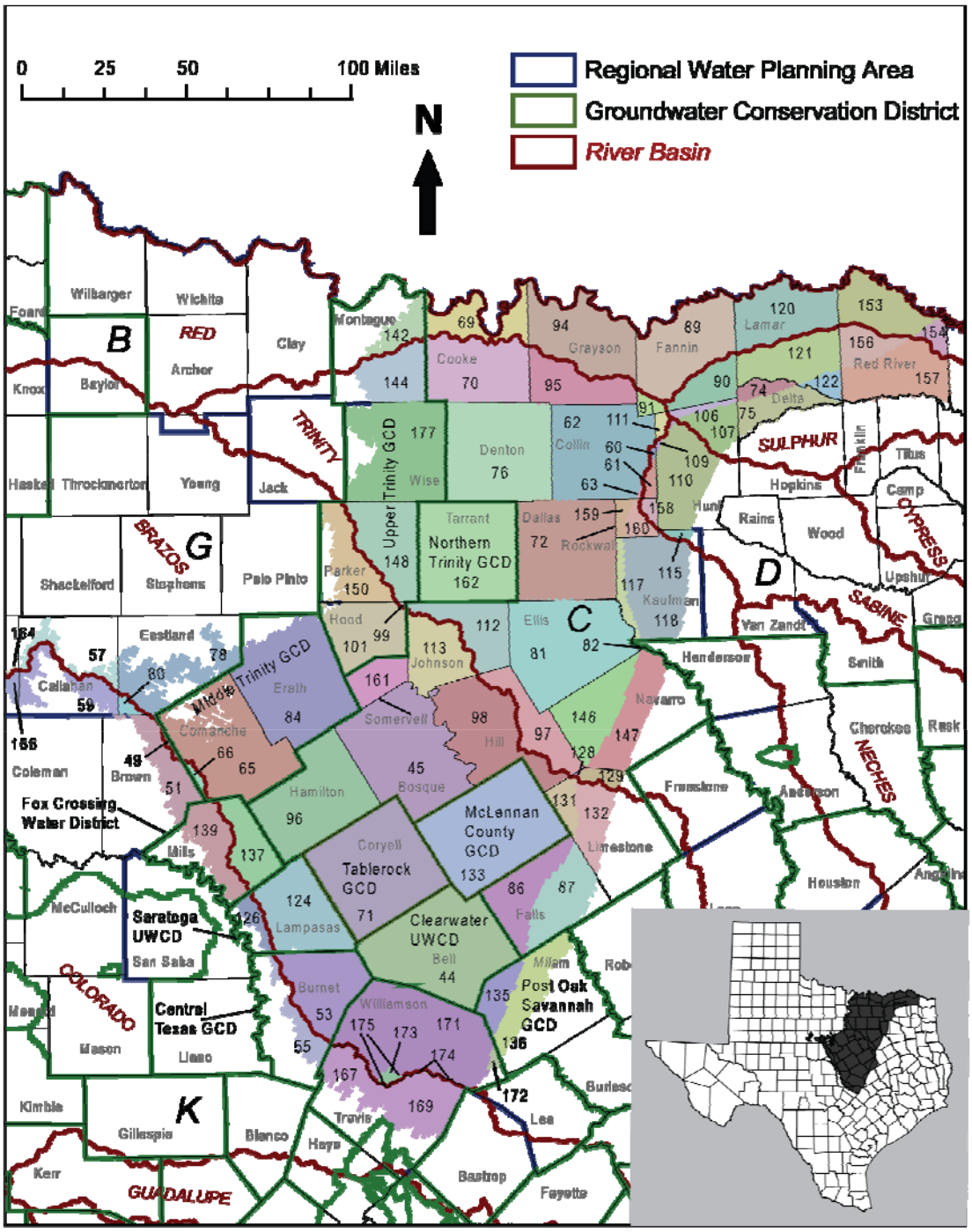


Figure 4. Geographic subdivisions of managed available groundwater for Hosston Unit of the northern part of the Trinity Aquifer. See Table 5 for descriptions of the geographic subdivisions.

RESULTS:

Water level declines in the Trinity Aquifer for the counties in Groundwater Management Area 8 were verified to meet the desired future conditions developed by groundwater conservation districts in Groundwater Management Area 8. The results (Figure 1 and Table 2) show 65,025 acre-feet per year of managed available groundwater for the Paluxy Aquifer in Groundwater Management Area 8. Of those, 89 acre-feet per year may not be fresh water. Under the jurisdiction of the Northern Trinity Groundwater Conservation District, Tarrant County has 10,544 acre-feet per year of managed available groundwater in the Paluxy Aquifer. Under the jurisdiction of the Upper Trinity Groundwater Conservation District; Montague, Wise, Parker, and Hood counties have 13,806 acre-feet per year of managed available groundwater in the Paluxy Aquifer. The remaining counties in Regional Planning Area C have 22,413 acre-feet per year of managed available groundwater in the Paluxy Aquifer. McLennan County Groundwater Conservation District has 231 acre-feet per year, Clearwater Underground Water Conservation District (Bell County) has 96 acre-feet per year, Tablerock Groundwater Conservation District (Coryell County) has 254 acre-feet per year, Saratoga Underground Water Conservation District (Lampasas County) has 13 acre-feet per year, and the Middle Trinity Groundwater Conservation District (Erath and Comanche counties) has 4,249 acre-feet per year of managed available groundwater in the Paluxy Aquifer. The remaining counties in Regional Planning Area G have 12,187 acre-feet per year of managed available groundwater. Central Texas Groundwater Conservation District (Burnet County) has 182 acre-feet per year and Fox Crossing Water District (Mills County) has 6 acre-feet per year. The remaining counties in Regional Planning Area K have 3 acre-feet per year of managed available groundwater. The counties in Regional Planning Area D have 1,024 acre-feet per year of managed available groundwater and the counties in Regional Planning Area F have 18 acre-feet per year in the Paluxy Aquifer.

The results (Figure 2 and Table 3) show 7,387 acre-feet per year of managed available groundwater for the Glen Rose Formation in Groundwater Management Area 8. Of those, 55 acre-feet per year may not be fresh water. Under the jurisdiction of the Northern Trinity Groundwater Conservation District, Tarrant County has 112 acre-feet per year of managed available groundwater in the Glen Rose Aquifer. Under the jurisdiction of the Upper Trinity Groundwater Conservation District; Montague, Wise, Parker, and Hood counties have 201 acre-feet per year of managed available groundwater in the Glen Rose Aquifer. The remaining counties in Regional Planning Area C have 0 acre-feet per year of managed available groundwater in the Glen Rose Formation. McLennan County Groundwater Conservation District has 265 acre-feet per year, Clearwater Underground Water Conservation District (Bell County) has 880 acre-feet per year, Tablerock Groundwater Conservation District (Coryell County) has 784 acre-feet per year, Saratoga Underground Water Conservation District (Lampasas County) has 774 acre-feet per year, the Middle Trinity Groundwater Conservation District (Erath and Comanche counties) has 1 acre-foot per year of managed available groundwater in the Glen Rose Formation and the Post Oak Savannah Groundwater Conservation District has 149 acre-feet per year of managed available groundwater in the Glen Rose Aquifer. The remaining counties in Regional Planning Area G have 1,122 acre-feet per year of managed available

groundwater. Central Texas Groundwater Conservation District (Burnet County) has 205 acre-feet per year and Fox Crossing Water District (Mills County) has 66 acre-feet per year. The remaining counties in Regional Planning Area K have 2,731 acre-feet per year of managed available groundwater. The counties in Regional Water Planning Area D have 0 acre-feet per year of managed available groundwater and the counties in Regional Water Planning Area F have 0 acre-feet per year in the Glen Rose Aquifer.

The results (Figure 3 and Table 4) show 46,067 acre-feet per year of managed available groundwater for the Hensell Aquifer in Groundwater Management Area 8. Of those, 342 acre-feet per year may not be fresh water. Under the jurisdiction of the Northern Trinity Groundwater Conservation District, Tarrant County has 2,535 acre-feet per year of managed available groundwater in the Hensell Aquifer. Under the jurisdiction of the Upper Trinity Groundwater Conservation District; Montague, Wise, Parker, and Hood counties have 6,879 acre-feet per year of managed available groundwater in the Hensell Aquifer. The remaining counties in Regional Planning Area C have 10,134 acre-feet per year of managed available groundwater in the Hensell Aquifer. McLennan County Groundwater Conservation District has 4,190 acre-feet per year, Clearwater Underground Water Conservation District (Bell County) has 1,099 acre-feet per year, Tablerock Groundwater Conservation District (Coryell County) has 1,765 acre-feet per year, Saratoga Underground Water Conservation District (Lampasas County) has 885 acre-feet per year, the Middle Trinity Groundwater Conservation District (Erath and Comanche counties) has 9,562 acre-foot per year of managed available groundwater in the Hensell Aquifer and the Post Oak Savannah Groundwater Conservation District has 36 acre-feet per year of managed available groundwater in the Hensell Aquifer. The remaining counties in Regional Planning Area G have 6,204 acre-feet per year of managed available groundwater. Central Texas Groundwater Conservation District (Burnet County) has 690 acre-feet per year and Fox Crossing Water District (Mills County) has 945 acre-feet per year. The remaining counties in Regional Planning Area K have 203 acre-feet per year of managed available groundwater. The counties in Regional Planning Area D have 861 acre-feet per year of managed available groundwater and the counties in Regional Planning Area F have 79 acre-feet per year in the Hensell Aquifer.

The results (Figure 4 and Table 5) show 130,340 acre-feet per year of managed available groundwater for the Hosston Aquifer in Groundwater Management Area 8. Of those, 875 acre-feet per year may not be fresh water. Under the jurisdiction of the Northern Trinity Groundwater Conservation District, Tarrant County has 5,556 acre-feet per year of managed available groundwater in the Hosston Aquifer. Under the jurisdiction of the Upper Trinity Groundwater Conservation District; Montague, Wise, Parker, and Hood counties have 17,463 acre-feet per year of managed available groundwater in the Hosston Aquifer. The remaining counties in Regional Planning Area C have 19,269 acre-feet per year of managed available groundwater in the Hosston Aquifer. McLennan County Groundwater Conservation District has 16,004 acre-feet per year, Clearwater Underground Water Conservation District (Bell County) has 4,993 acre-feet per year, Tablerock Groundwater Conservation District (Coryell County) has 913 acre-feet per year, Saratoga Underground Water Conservation District (Lampasas County) has 1,446 acre-feet per year, the Middle Trinity Groundwater Conservation District (Erath and Comanche counties) has 39,006 acre-foot per year of managed available groundwater in

the Hosston Aquifer and Post Oak Savannah Groundwater Conservation District (Milam County) has 103 acre-feet per year of managed available groundwater. The remaining counties in Regional Planning Area G have 17,734 acre-feet per year of managed available groundwater. Central Texas Groundwater Conservation District (Burnet County) has 2,469 acre-feet per year and Fox Crossing Water District (Mills County) has 1,383 acre-feet per year. The remaining counties in Regional Planning Area K have 1,172 acre-feet per year of managed available groundwater. The counties in Regional Planning Area D have 880 acre-feet per year of managed available groundwater and the counties in Regional Planning Area F have 1,948 acre-feet per year in the Hosston Aquifer.

In addition, we have reviewed the results from this model simulation and compared the results from GAM Run 08-14mag (Wade, 2008) for the Woodbine Aquifer to verify that they are physically possible, individually and collectively.

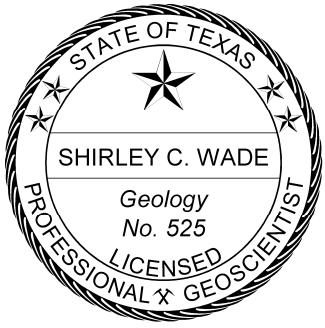
Note that estimates of managed available groundwater are based on the best available scientific tools that can be used to evaluate managed available groundwater and that these estimates can be a function of assumptions made on the magnitude and distribution of pumping in the aquifer. Therefore, it is important for groundwater conservation districts to monitor whether or not they are achieving their desired future conditions and to work with the TWDB to refine managed available groundwater given the reality of how the aquifer responds to the actual magnitude and distribution of pumping now and in the future.

REFERENCES:

Bené, J., Harden, B., O'Rourke, D., Donnelly, A., and Yelderman, J., 2004, Northern Trinity/Woodbine Groundwater Availability Model: contract report to the Texas Water Development Board by R.W. Harden and Associates, 391 p.

Donnelly, A., 2008, GAM08-06 Final Report, Texas Water Development Board GAM Run Report, October 26, 2007, 44 p.

Wade, S., 2008, GAM08-14mag Report, Texas Water Development Board GAM Run Report, May 6, 2008, 7 p.



The seal appearing on this document was authorized by Shirley C. Wade, P.G., on March 5, 2009.