

GARZA COUNTY UNDERGROUND AND FRESH WATER CONSERVATION DISTRICT

WATER MANAGEMENT PLAN

1998-2008

## GARZA COUNTY UNDERGROUND AND FRESH WATER CONSERVATION DISTRICT DISTRICT MISSION

The overall objective of the District is the conservation, preservation, protection, recharge and enhancement of the groundwater supplies within the boundaries of the District; also to make wise and beneficial use of the resources for the benefit of the citizens and economy of the District. To accomplish these goals, the District plans to implement a program to monitor both the quantity and quality of these water supplies and also to promote a brush control program for the District.

### STATEMENT OF GUIDING PRINCIPLES

The Garza County Underground and Fresh Water Conservation District is created and organized under the terms and provisions of Section 59, Article XVI, Texas Constitution, and Chapter 188 of House Bill 846, including all amendments and additions, of the 74th Legislature. The District has all of the rights, powers, privileges, authority, functions, and duties provided by the general law of this state, including Chapter 36 (formerly Chapter 52) of the Texas Water Code, Vernon's Texas Codes Annotated, applicable to underground water conservation districts created under Section 59, Article XVI, Texas Constitution.

The District recognizes that the groundwater resources of the region are of vital importance to the residents of the District and that this resource must be managed and protected from contamination and waste. The rules and regulations of the District will be implemented and enforced to accomplish these objectives.

### LOCATION AND EXTENT

The boundaries of the Garza County U & FWCD are coextensive with the boundaries of Garza County, Texas, which lies in the southern part of the High Plains of Texas. About 1/4 of the District lies above the Caprock escarpment while the rest of the District, including the principal city of Post, lies below the Caprock.

### GROUND WATER RESOURCES

The Ogallala Aquifer is located in the northwestern part of the District, extending from the northwestern corner to the southwest corner, mainly being in the area above the Caprock. Water from this aquifer is principally used for irrigation and rural domestic and livestock needs.

The Dockum Aquifer is located in the northern and northeastern parts of the District and extends along the Eastern edge to the southeast corner. Water from this aquifer is used for mining, irrigation, livestock and household use.

The Edwards-Trinity Aquifer lies along the western edge of the District, extending from the northwest corner to the southwest corner. Water from this aquifer is used mainly for irrigation and domestic household needs.

The Seymour Aquifer is located in the northeast corner of the District and furnishes water mainly for irrigation and livestock use.

## SURFACE WATER RESOURCES OF GARZA COUNTY U & FWCD

There are no surface water impoundments in the District, except for livestock consumption, which could possibly require conjunctive management. At the present time, Garza County U & FWCD has no jurisdiction over any surface water projects. Likewise, no agency which regulates surface water, has the authority to manage groundwater within the territory of this District.

### ESTIMATE-TOTAL USEABLE AMOUNT OF GROUNDWATER

There is an estimated .67 million acre feet of recoverable groundwater in storage in the District for the year 2000 and .63 million acre feet for the year 2010.

The above figures were taken from: Texas Water Development Board report 341-The High Plains Aquifer System of Texas, 1980 to 1990-Overview and Projections.

### ESTIMATE-GROUND WATER USE IN GARZA COUNTY U & FWCD ON AN ANNUAL BASIS

Based on available Texas Water Development Board data, during the last five years ending in 1995, annual groundwater usage in the District has varied from a high of 7376 acre feet to a low of 2426 acre feet. The annual estimated usage within the District for the 5 years by major aquifer is as follows:

	SEYMOUR	OGALLALA	DOCKUM	TOTAL
1995	13	7071	292	7376 acre ft
1994	10	5165	236	5411 acre ft
1993		4414	249	4663 acre ft
1992		2299	127	2426 acre ft
1991		3331	764	4095 acre ft

Source of this data: Texas Water Development Board, Water Resources Planning Division, Estimated Ground Water Pumpage by Major Aquifer.

### ESTIMATE-ANNUAL AMOUNT OF RECHARGE OF GROUNDWATER

Estimated recharge of groundwater in the Garza County U & FWCD is 1730 acre feet per year for the years 1980 to 2029.

Currently the District is using the Texas Water Development Board's data for Groundwater Availabilities as well as estimates for recharge and availability rates. These estimates can be used by the District to derive goals for future estimates of available groundwater.

The above figures were taken from: Texas Water Development Board report 341-The

## High Plains Aquifer System of Texas, 1980 to 1990-Overview and Projections.

### ENHANCEMENT OF RECHARGE AND AVAILABILITY

The District supports brush control as a management practice to maintain and improve groundwater supplies in the District and region. Recharge of aquifers is achieved through rainfall and can be enhanced by the control of brush, mainly mesquite and juniper, which would decrease the demand on groundwater in the District and region. Benefits would include more groundwater availability, increased productivity of rangeland, increased spring flow, and increased amount of moisture available to infiltrate as recharge.

Tests run at the Texas Agricultural Experiment Station at Sonora showed that an eight-foot mesquite tree would use about 20.9 gallons of water per day\*, while an eight-foot juniper would use about 46.8 gallons of water per day\*\*. The Natural resource Conservation Service of Garza County estimates that there are approximately 360,352 acres of ranchland in the District that are infested with mesquite and approximately 45,044 acres that are infested with juniper. Using the above figures for water usage and a density equivalent of only one mature tree per acre, an estimated loss of approximately 173 acre feet per day or 63,107 acre feet per year occurs with mesquite infestation, and an estimated loss of 48 acre feet per day or 17,663 acre feet per year occurs with juniper infestation, on ranchland within the District.

\* & \*\* Technical Report 97-1, Texas A&M Experiment Station, Vernon, Texas

### ESTIMATE-PROJECTED WATER SUPPLY AMOUNT

Projected water supply amounts for the District are 5,697 acre feet for the year 2000 and 5,412 acre feet for the year 2010.

These figures are taken from: County Summary--TWDB Water Supplies Section--WPLAN-96-1997

### ESTIMATE-PROJECTED AMOUNT OF WATER DEMAND

The TWDB has projected that the total water demands for the Garza County U & FWCD will be 6,161 acre feet per year for the year 2000, and 5,661 per year by 2010.

Source for this data: County Summary, TWDB Water Supplies Section, WPLAN-96-1997

Source-1996 Consensus Texas Water Plan Population and Consumptive Water Demand Forecasts.

The residents of the District understand that groundwater supplies are limited and have modified farming and ranching techniques to match the availability of water. Efforts are being made by the residents of the District to use the available groundwater resources with maximum efficiency, while monitoring the quality of the groundwater to protect this resource for years to come.

## MANAGEMENT OF GROUNDWATER SUPPLIES

The District will manage the supply of groundwater within the District in order to conserve the resource while seeking to maintain the economic viability of all resource user groups, public and private. In consideration of the economic and cultural activities occurring within the District, the District will identify and engage in such activities and practices, that if implemented would result in a reduction of groundwater use. The District will make a regular assessment of water supply and groundwater storage conditions and will report those conditions to the Board and to the Public. The District will undertake, as necessary and co-operate with investigations of the groundwater resources within the District and will make the results of investigations available to the public upon adoption by the Board.

The District will adopt rules to regulate groundwater withdrawals by means of spacing and production limits. The District may deny a well construction permit or limit groundwater withdrawals in accordance with the guidelines stated in the rules of the District. In making a determination to deny a permit or limit groundwater withdrawals, the District will consider the public benefit against individual hardship after considering all appropriate testimony.

The relevant factors to be considered in making a determination to deny a permit or limit groundwater withdrawals will include:

- (1) The purpose of the rules of the District
- (2) The equitable distribution of the resource
- (3) The economic hardship resulting from grant or denial of a permit or the terms prescribed by the permit

## DROUGHT CONTINGENCY PLAN

The drought of 1998 stresses the need for a Drought Contingency Plan, to cope with the effects of water supply deficits due to climatic or other conditions, in a year in which rainfall has been limited. In developing this plan the District will consider the economic effect of conservation measures upon all water resource user groups, the local implications of the degree and effect of changes in water storage and weather conditions, and the appropriate conditions under which to implement the contingency plan.

The District will employ all technical resources at its disposal to evaluate the resources available within the District and to determine the effectiveness of regulatory or conservation measures. A public or private user may appeal to the Board for discretion in enforcement of the provisions of the water supply deficit contingency plan on grounds of adverse economic hardship or unique local conditions. The exercise of said discretion by the Board shall not be construed as limiting the powers of the board.

In addition, the District will promote an educational program to encourage conservation practices and to assist all classes of water users in making more efficient use of this resource.

#### ACTIONS, PROCEDURES, PERFORMANCE AND AVOIDANCE FOR PLAN IMPLEMENTATION

The District will implement the provisions of this plan and will utilize the provisions of this plan as a guidepost for determining the direction or priority for all District activities. All operations of the District, all agreements entered into by the District and any additional planning efforts in which the District may participate will be consistent with the provision of this plan.

The District will adopt and amend as necessary rules relating to the permitting of wells and the production of groundwater. The rules adopted by the District shall be pursuant to TWC Chapter 36 and the provisions of this plan. All rules will be adhered to and enforced. The promulgation and enforcement of the rules will be based on the best technical evidence available.

The District shall treat all citizens with equality. Citizens may apply to the District for discretion in enforcement of the rules on grounds of adverse economic effect or unique local character. In granting of discretion to any rules, the Board shall consider the potential for adverse effect on adjacent landowners. The exercise of said discretion by the Board, shall not be construed as limiting the power of the Board.

The District will seek cooperation in the implementation of this plan and the management of groundwater supplies within the District. All activities of the District will be undertaken in cooperation and coordination with the appropriate state, regional or local water management entity.

#### TIME PERIOD FOR THIS PLAN

This plan becomes effective upon Certification by the Texas Water Development Board after Adoption by the District Board of Directors and remains in effect until September 1, 2008, or for a period of ten years, whichever is later. The plan may be revised at any time, or after five years when the plan will be reviewed to insure that it is consistent with the applicable Regional Water Plan and the State Water Plan.

#### COORDINATION WITH REGIONAL WATER PLAN

Since there is no Regional Water Plan in existence at this time, the issue of coordinating the District Water Management Plan with a Regional Water Plan is not applicable.

#### TRACKING METHODOLOGY

The District manager will prepare and present an annual report to the Board of Directors

on District performance to insure that management goals and objectives are being achieved. The annual report will be maintained on file at the District office.

### GOALS, MANAGEMENT OBJECTIVES AND PERFORMANCE STANDARDS

#### Goal 1.0 - Controlling and Preventing the Waste of Groundwater within the District

Management Objective: Each year, identify, investigate and seek remediation of all wasteful irrigation practices within the District.

Performance Standard: The District will investigate the number of complaints and seek remediation for reported wasteful irrigation practices occurring within the District and will make diligent search for such practices in the District.

#### Goal 2.0 - Providing for the most efficient use of groundwater within the District

Management Objective: Each year, the District will provide all available educational information on water conservation, to the public within the District in the form of articles in the District newsletter, local newspaper articles, NRCS and FSA newsletters, Extension Service newsletters or any other publication available.

Performance Standard: Number of articles on the efficient use of groundwater in various publications within the District, as information becomes available.

### MANAGEMENT GOALS DETERMINED NOT APPLICABLE

#### Goal 1.0 - Controlling and preventing subsidence within the District.

This management goal is not applicable to the operations of the District.

#### Goal 2.0 - Conjunctive surface water management issues within the District.

This management goal is not applicable to the operations of the District.

#### Goal 3.0 - Addressing natural resource issues which impact the use and availability of groundwater and which are impacted by the use of groundwater in the District.

This goal is not applicable to the operation of the District.

SUMMARY DEFINITIONS:

"Abandoned Well" shall mean:

1) a well or borehole, the condition of which is causing or is likely to cause pollution of groundwater in the District.

A well is considered to be in use in the following cases:

a) a well which contains the casing, pump, and pump column in good condition; or

b) a well in good condition which has been capped.

2) A well or borehole which is not in compliance with the applicable law, including the Rules and Regulations of the District, the Texas Water Driller's Act, Texas Natural Resource Conservation Commission, or any other state or federal agency or political subdivision having jurisdiction, if presumed to be an abandoned or deteriorated well.

"Board" - The Board of Directors of the Garza County U & FWCD

"District" - The Garza County U & FWCD

"TNRCC" - Texas Natural Resource Conservation Commission

"TWDB" - Texas Water Development Board

"Waste" - as defined by Chapter 36 of the Texas Water Code means any one or more of the following:

(1) withdrawal of groundwater from a groundwater reservoir at a rate and in an amount that causes or threatens to cause intrusion into the reservoir of water unsuitable for agricultural, gardening, domestic, or stock raising purposes;

(2) the flowing or producing of wells from a groundwater reservoir if the water produced is not used for a beneficial purpose;

(3) escape of groundwater from groundwater reservoir to any other reservoir or geologic strata that does not contain groundwater;

(4) pollution or harmful alteration of groundwater in a groundwater reservoir by saltwater or by other deleterious matter admitted from another stratum or from the surface of the ground;

(5) willfully or negligently causing, suffering, or allowing groundwater to escape into any river, creek, natural watercourse, depression, lake, reservoir, drain, sewer, street, highway, road, or road ditch, or onto any land other than that of the owner of the well unless such discharge is authorized by permit, rule, or order issued by the Commission under Chapter 26;



(6) groundwater pumped for irrigation that escapes as irrigation tailwater onto land other than that of the owner of the well unless permission has been granted by the occupant of the land receiving the discharge; or

(7) for water produced from an artesian well, "waste: has the meaning assigned by Section 11.205.

# Advertising

800 N. Avenue F, Post, Tx. EOEM/F/V/  
D

## Jobs Wanted

House and Business Cleaning. Call to set appointment. Sonja Fields, 495-3401 or DEDE Smith, 495-2451.

## Charitable Fund Raising

Every Friday, starting at 5 p.m. Fish with trimmings, \$5 a plate. Holy Cross Catholic Church.

## Mobile Homes for Rent

For rent with option to buy: 92 mobile home, 1200 sq. ft. 3br, 2bth. \$400 month, \$250 deposit. Call (254) 697-8987 or (806) 744-4546.

Two bedroom mobil home, 506 W. 11th. Fenced in backyard, partly furnished. Come by 316 W. 11th.

## Homes for Sale

3 bedroom, 2 bath, brick, 2 large lots. Call 495-3045 or 495-4545.

Nice 2800 sq. ft. home, 4 bedroom, 2 bath, den, kitchen and dining combined, fireplace and utility room. Small storage room, carport and big tool shed, all sitting on one acre. Need to sell, asking \$65,000. 1206 W. 10th, call 495-2029.

Large house with "Mother-in-Law" apartment. Ample storage room and double carport. Phone 495-3384

## Miscellaneous for Sale

Bar-B-Que Briskets, \$20 each. Order by Wednesday 5 p.m. pick up noon on Saturday. Danny Cooper 495-1252

Big Screen TV for sale. Take on small payments. Good credit required. 1-800-398-3970.

One ticket for Charley Pride show, Fair Park Coliseum, Sunday, Sept. 27, seven p.m. Floor seat, row 11. \$12, call 495-3884 or 495-2816 (Wes)

## Garage Sales

Thursday, Friday and Saturday, 307 North Ave. S. 8 a.m. till ?

Saturday, 609 West 8th. 8 a.m. till ?

Three families, Saturday, 107 East 7th. 8 a.m. Lots of stuff!

Friday, 6 p.m. to 8 p.m., Saturday, 8 a.m. to 2 p.m. Lubbock Hwy across from the Chaparral. Adult and childrens clothing, household goods, VCR, toys and much more!

Saturday, 513 West 4th. 8 a.m. till ?

Yard sale, Saturday, 211 West 13th. 8 a.m. till ?

Mens clothes, plus size womens clothes, bicycles, dishes, crochet thread and lots of misc.

Two family garage sale, Saturday, 801 West. 5th. 8:30 a.m till 1 p.m. ?

Saturday, 112 East 11th. 8 a.m. till ?

Friday and Saturday, 505 West 14th. 8 a.m. till ?  
NO EARLY CALLERS.

## Feed & Seed & Livestock

Alfalfa for sale. 495-2290.

## Vehicles for Sale

Irresponsible Buyer - Car still for sale, runs good, needs tune-up. \$500, call 495-3244.

1972 Ford pick-up, runs good. \$1000.00, call 495-3949.

## Business Opportunities

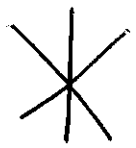
A perfect part-time home business. 1997 Peoples Choice Award Winner. 2 hours/day earns you financial freedom. 24 hour message, 1-888-571-8359.

## Legal Notices

### Notice of Public Hearing

The Garza County underground and Fresh Water Conservation District will hold a public hearing on September 14th at 10:00 a.m. in the Garza County District Courtroom for the purpose of adopting a Water Management Plan.

Ferrell Wheeler  
Board Chairman



Garza County Underground & Fresh  
Water Conservation District  
300 West Main  
c/o County Treasurer's Office  
Post, Texas 79356

September 21, 1998

Bill Mullican  
Director, Water Resources Planning  
Texas Water Development Board  
1700 N. Congress Ave., Box 13231  
Austin, Texas 78711-3231

**RE: District's Water Management Plan**

Dear Mr. Mullican:

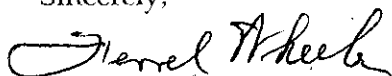
The Garza County Underground and Fresh Water Conservation District had previously advised you that a public hearing to adopt a Water Management Plan for the District had been held after notice of such hearing had been posted in a local newspaper not qualified to post such notices. A new hearing was held, as advised by TWDB, on September 14, 1998, to re-adopt a Water Management Plan for the District, after proper notice for the hearing was made.

Enclosed are the following:

1. Posted Notice of Public Hearing from the September 3rd, 1998, Post Dispatch;
2. Posted Notice of Meeting filed September 10th, 1998;
3. Minutes of September 14, 1998, meeting;
4. Resolution for Garza County Underground and Fresh Water Conservation District;
5. Letter dated September 16, 1998, from Roy A. Roberts, General Director of Brazos River Authority; and,
6. Letter dated September 14, 1998, from Tommy O. O'Brien, General Director White River Municipal Water District.

If you need further information please let us know.

Sincerely,



Ferrel Wheeler  
Board Chairman  
Telephone 806/996-5548

**WHITE RIVER MUNICIPAL WATER DISTRICT  
POST, RALLS, SPUR, & CROSBYTON  
HCR 2 BOX 141 SPUR, TEXAS 79370-9607**

**Tommy O. O'Brien, P.E.**  
General Manager

Telephone (806) 263-4240  
Fax (806) 263-4474

September 14, 1998

Ferrel Wheeler, Chairman  
Garza County Underground and Fresh Water Conservation District  
300 West Main Street  
Post, Texas 79356

Dear Mr. Wheeler:

As General Manager of the White River Municipal Water District (WRWMD) I have made a general observation of the document (titled: Garza County Underground and Fresh Water Conservation District, Water Management Plan, 1998-2008) submitted to us by your September 2, 1998 letter.

As stated in your September 2, 1998 letter, there are no surface water entities in the Garza County Underground and Fresh Water Conservation District over which the Garza County Underground and Fresh Water Conservation District has jurisdiction.

At this time there does not appear to be a conflict between the White River Municipal Water District and the Garza County Underground and Fresh Water Conservation District Management Plan.

If I can be of further assistance please contact me.

Sincerely,  
White River Municipal Water District



Tommy O. O'Brien, P.E.



Brazos River Authority



QUALITY • CONSERVATION • SERVICE

September 16, 1998

Mr. Ferrel Wheeler, Chairman  
Garza County Underground and Fresh  
Water Conservation District  
300 West Main Street  
Post, Texas 79356

Dear Mr. Wheeler:

Thank you for your letter of September 2, 1998, providing us with a copy of the Garza County U&FWCD's Water Management Plan. The plan provides important information on a critical area of the Brazos River basin. It will be useful in preparation of the Llano Estacado Regional Water Plan under SB1.

Our staff has reviewed the plan and there are no conflicts with any plans or projects of the Brazos River Authority. We would appreciate having a copy of the final version of this plan for our records.

If we can provide any other comment or support in your planning efforts, please do not hesitate to contact Mr. Tom Ray, the Authority's Assistant General Manager/Planning and Environmental, or me.

Sincerely,

ROY A. ROBERTS, P.E.  
General Manager

RAR:rp

q:\files\coresp\tr\ferrel wheeler ltr-garzaco-sep98.doc

**RESOLUTION**  
**for**  
**GARZA COUNTY UNDERGROUND AND FRESH WATER**  
**CONSERVATION DISTRICT**

County of Garza     §  
State of Texas     §

**Garza County Underground and  
Fresh Water Conservation District  
300 West Main Street  
c/o County Treasurer's Office  
Post, Texas 79356**


**WHEREAS** the Directors of the Garza County Underground and Fresh Water Conservation District have been charged by law with the duty of drawing up a Water Management Plan for Garza County Texas; and

**WHEREAS** such Directors held a public hearing on the 14th day of September, 1998 at 10:00 a.m. in the Garza County District Courtroom for the purpose of considering adoption of a Water Management Plan for Garza County Texas; and

**WHEREAS** after review and discussion of such Plan submitted by Board Chairman, Ferrel Wheeler, was unanimously adopted by the Board.

**ACCORDINGLY** it is resolved that the Garza County Clerk place an executed copy of this Resolution in the minutes of the Court of Garza County.

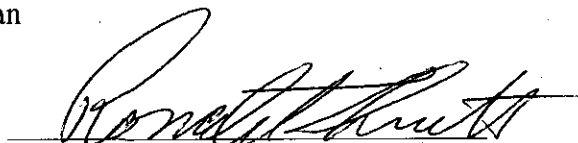
**Executed the 14th day of September, 1998.**



Ferrel Wheeler, Chairman  
Board of Directors



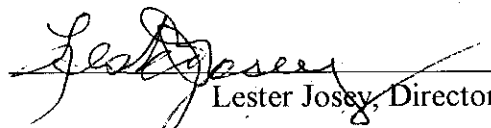
Dicky Wallace, Director



Ronald Thuett, Director



John Boren, Director



Lester Josey, Director

Minutes of September 14, 1998 Meeting  
of the Garza County Underground and Fresh Water Conservation District


After public notice the meeting of the Garza County Underground and Fresh Water Conservation District was called to order by Chairman Ferrel Wheeler at 10:00 a.m. on September 14, 1998.

Present were Lester Josey, Ferrel Wheeler, John Boren, Dicky Wallace, and Ronald Thuett. Board Chairman Wheeler reviewed the proposed Water Management Plan, 1998-2008, and called for discussion of such plan. There was no discussion or question from the Board or the Public. John Boren moved that the plan be adopted, such motion was seconded by Dicky Wallace and was unanimously adopted by the Board.

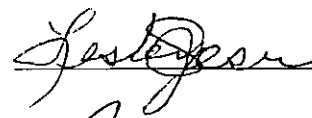
The Board discussed procedure for adoption of the District's rules and by-laws, and motion was made by Lester Josey that a hearing be held on October 6, 1998, at 10:00 a.m. in the Garza County Courthouse Courtroom to consider adoption of such rules and by-laws. The motion was seconded by Ronald Thuett and unanimously adopted by the Board.


The meeting adjourned at 11:45 a.m.

  
\_\_\_\_\_  
Ferrel Wheeler

  
\_\_\_\_\_  
John Boren

  
\_\_\_\_\_  
Dicky Wallace

  
\_\_\_\_\_  
Lester Josey

  
\_\_\_\_\_  
Ronald Thuett

NOTICE OF MEETING

BOARD OF GARZA COUNTY UNDERGROUND AND FRESH WATER CONSERVATION WILL MET IN THE ROOM 1ST FLOOR OF COURTHOUSE, ON MONDAY THE 14, DAY OF SEPTEMBER, 1998 AT 10:00 A.M..

AGENDA

1. DISCUSSION ON HEARING, RULES, AND REGULATIONS

/S/ FERREL WHEELER  
CHAIRMAN

IN ACCORDANCE WITH TITLE III OF THE AMERICANS WITH DISABILITIES ACT, WE INVITE ALL ATTENDEES TO ADVISE US OF ANY SPECIAL ACCOMMODATIONS DUE TO DISABILITY. PLEASE SUBMIT YOU REQUEST AS FAR AS IN ADVANCE AS POSSIBLE, OF THE MEETING YOU WISH TO ATTEND BY CONTACTING CLERK'S OFFICE AT 495-4430 OR FERREL WHEELER AT 996-5548.

1. 9-10 10:00 984:00  
Sonny Arredondo  
BY \_\_\_\_\_ DEPT.  
CLERK OF County CO  
GARZA COUNTY, TEXAS