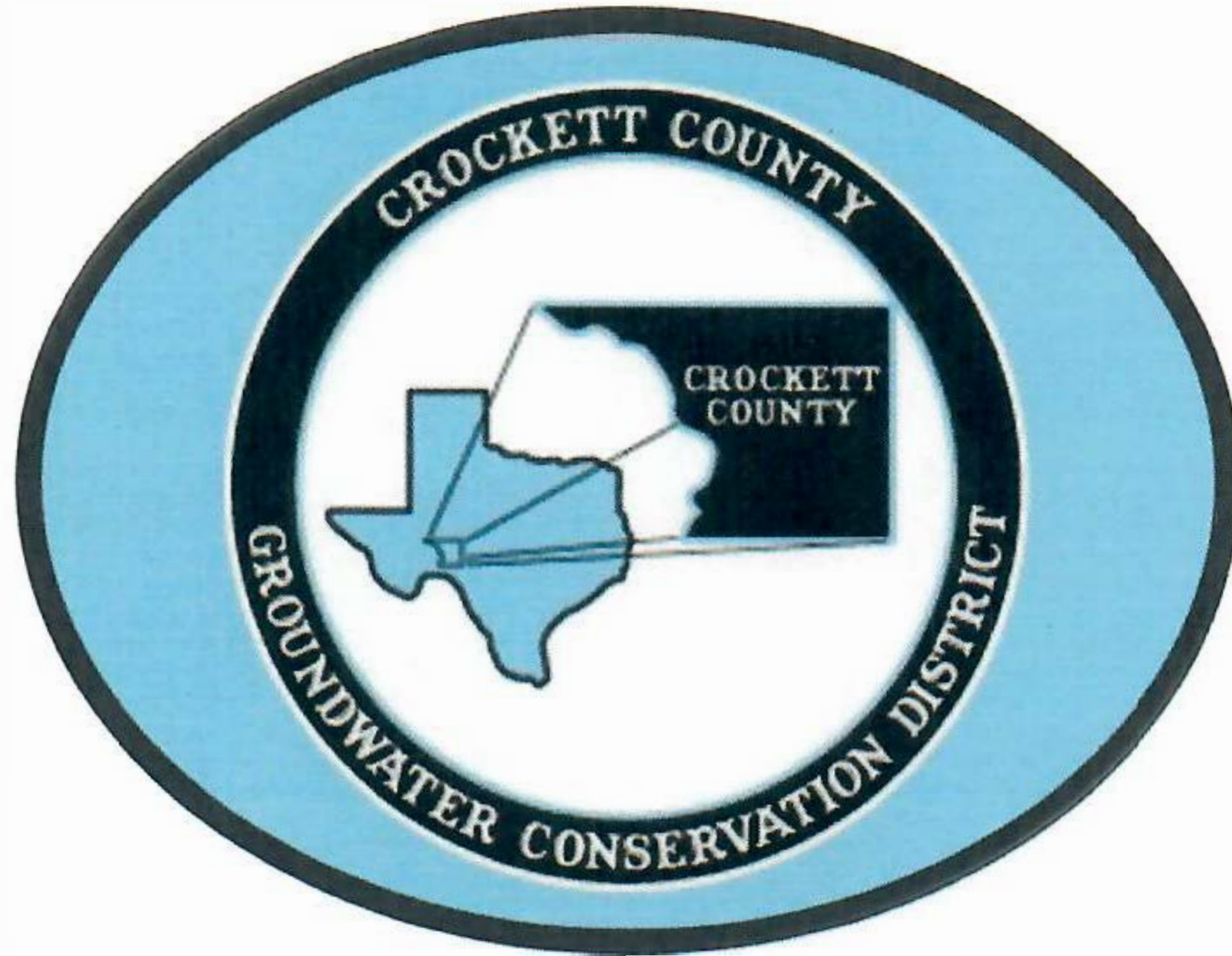


CROCKETT COUNTY GROUNDWATER CONSERVATION DISTRICT



MANAGEMENT PLAN

2023-2028

Adopted: April 8th, 2024.

Approved by the Texas Water Development Board
_____, 2024.

PO Box 1458, Ozona, Texas 76943
Ph: (325) 392-5156 Fax: (325) 392-3135 Email: crockettcountygcd@gmail.com

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DISTRICT MISSION

The Crockett County Groundwater Conservation District is dedicated to the implementation of sound management strategies that will preserve and protect its groundwater resources within the District. The District strives to promote conservation, as well as preserve the quality and quantity of its water resources within the District for the benefit of all the citizens and economy of the area.

TIME PERIOD FOR THIS PLAN

This plan becomes effective upon adoption by the Board of Directors of the Crockett County Groundwater Conservation District and approval by the Texas Water Development Board executive administrator. This plan remains in effect until September 1, 2028, or until such time as a revised or amended plan is approved.

STATEMENT OF GUIDING PRINCIPLES

The Crockett County Groundwater Conservation District recognizes the vital importance of groundwater to the economy of Crockett County as well as the entire GMA 7 area. Being the predominate water resource, the District is dedicated to conserving and protecting the quantity and quality of this valuable natural resource through prudent and cost effective management. Management planning should be based on awareness of the hydrologic properties of the specific aquifers within the District as well as quantification of existing and future resource data. The goals set forth within the plan are intended to provide for the conservation, preservation, protection, recharge, prevention of waste and pollution, as well as the efficient and prudent use of groundwater resources within the District. The goals of this plan can best be achieved through guidance from the locally elected board members who have an understanding of local conditions as well as technical support from the Texas Water Development Board and qualified consulting agencies. This management plan is intended only as a reference tool to provide guidance in the execution of district activities, but should allow flexibility in achieving goals.

GENERAL DESCRIPTION OF THE DISTRICT

History

The Crockett County Groundwater Conservation District, formerly Emerald Underground Water Conservation District, was created by Acts of the 71st Legislature (1989). The district was confirmed by the citizens of Crockett County on January 26, 1991. In 2007, by Acts of the 80th Legislature, H.B. 4009, the District's name was changed to Crockett County Groundwater Conservation District. Members of the current Board of Directors are: President, Paul C. Perner, III - Vice President, James W. Owens - Secretary, Carlton A. Stapper, George Bunger, Jr. and Will M. Black. The District General Manager is Slate Williams. The Crockett County Groundwater Conservation District encompasses all of Crockett County with the exception of the metes and bounds of the Crockett County Water Control & Improvement District No. 1. Historically, Crockett County's economy has been centered around agriculture, but in the last several years, oil and gas has become the dominate industry. The agricultural income is derived from sheep and goats as well as some beef cattle production. Due to the topography and climate of the area, there is very little farming. Recreational hunting has also become a major supplemental income to the county.

Location and Extent

Crockett County, having an areal extent of 2,795.60 square miles or approximately 1,789,182.62 acres of land, is located in southwest Texas on the western edge of the Edwards Plateau. Crockett County is the eighth largest county in Texas with the Pecos River forming its western boundary. On the west lie Pecos and Terrell counties. Crane, Upton, Reagan and Irion counties border Crockett County on the north. On the east lie Schleicher and Sutton counties with Val Verde County on the south. Ozona, being the only town in the county, is centrally located in the eastern part of Crockett County.

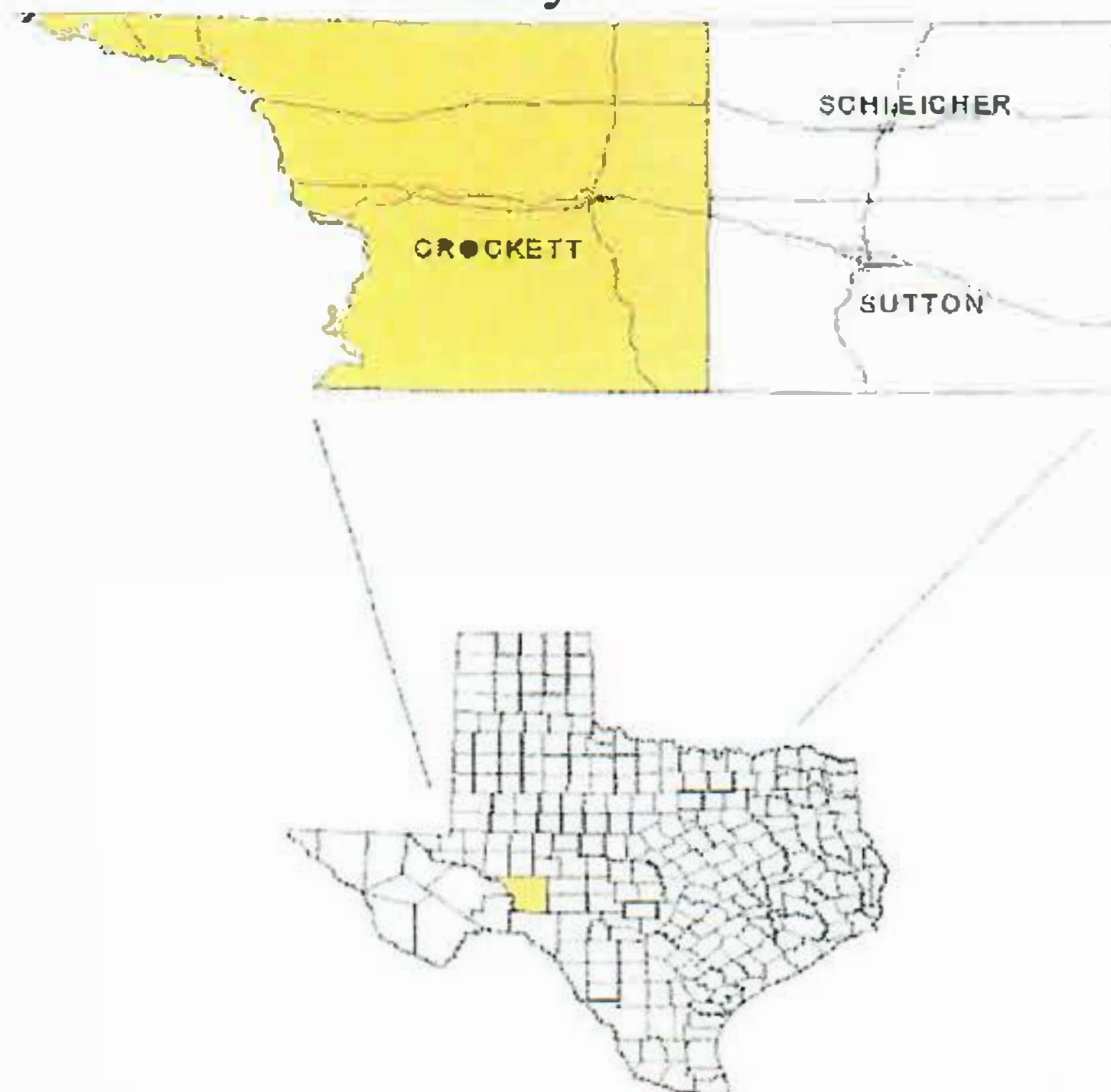


Figure 1. Location of the Crockett County

Groundwater Conservation District

Topography and Drainage

Crockett County's topography is characterized by deep, narrow, steep walled canyons and flat mesas in the southern and western portions. Broad valleys and flat divides make up the northern part of the county; the northeastern area is a large flat divide. The altitude ranges from about 1,800 feet in the southwest to over 3,000 feet in the northwest. Karst topography, characterized by numerous sinkholes having underground drainage, occurs in the northeastern quarter of the county on the upper flat divide between the Colorado River and Rio Grande drainage basins.

Drainage of Crockett County is by means of intermittent, dendritic streams. On the east side of the county a dry tributary of Devils River drains southeastward into Sutton County. Johnsons Run and Howards Creek bisect central Crockett County and drain southward, joining Devils River and the Pecos River, respectively, in Val Verde County. In the Northwestern part of Crockett County, Live Oak Creek drains southward into the Pecos River at Lancaster Hill. The dry bed of Spring Creek originates in the northeastern corner of the county and runs northeastward. Generally, the county can be said to lie in the Rio Grande drainage basin. Only the extreme northeastern corner of the county lies in the Colorado River drainage basin.¹

REGIONAL COOPERATION AND COORDINATION

West Texas Regional Groundwater Alliance

The District is a member of the West Texas Regional Groundwater Alliance (WTGRA). This regional alliance consists of seventeen (17) locally created and locally funded districts that encompass approximately eighteen (18.2) million acres or twenty eight thousand three hundred sixty eight (28,368) square miles of West Texas. To put this in perspective, this area is larger than many individual states including Rhode Island (1,045 sq mi), Delaware (1,954 sq mi), Puerto Rico (3,425 sq mi), Hawaii (6,423 sq mi), New Jersey (7,417 sq mi), Massachusetts (7,840 sq mi), New Hampshire (8,968 sq mi), Vermont (9,250 sq mi), Maryland (9,774 sq mi), and West Virginia (24,230 sq mi). This west Texas Region is as diverse as the State of Texas.

Due to the diversity of this region, each member district provides it's own unique programs to best serve its constituents.

In May of 1988 four (4) groundwater districts; Coke County UWCD, Glasscock County UWCD, Irion County WCD, and Sterling County UWCD adopted the original Cooperative Agreement. As new districts were created, they too adopted the Cooperative Agreement. In the fall of 1996, the original Cooperative Agreement was redrafted and the West Texas Regional Groundwater Alliance was created. The current member districts and the year they joined the Alliance are:

Coke County UWCD	(1988)	Crockett County GCD	(1992)	Glasscock GCD	(1988)
Hickory UWCD #1	(1997)	Hill County UWCD	(2005)	Irion County WCD	(1988)
Kimble GCD	(2004)	Lipan-Kickapoo WCD	(1989)	Lone Wolf GCD	(2002)
Menard County UWD	(2000)	Middle Pecos GCD	(2005)	Permian Basin UWCD	(2006)
Plateau UWC&SD	(1991)	Santa Rita UWCD	(1990)	Sterling County UWCD	(1988)
Sutton County UWCD	(1991)	Wes-Tex GCD	(2005)		

This Alliance was created for local districts to coordinate and implement common objectives to facilitate the conservation, preservation and beneficial use of water and related resources in this region of the State, to exchange information among the districts, and to educate the public about water issues. Local districts monitor the water-related activities that include but are not limited to farming, ranching, oil & gas production, and municipal water use. The Alliance coordinates management activities of the member districts primarily through exchange of information and policy discussions.

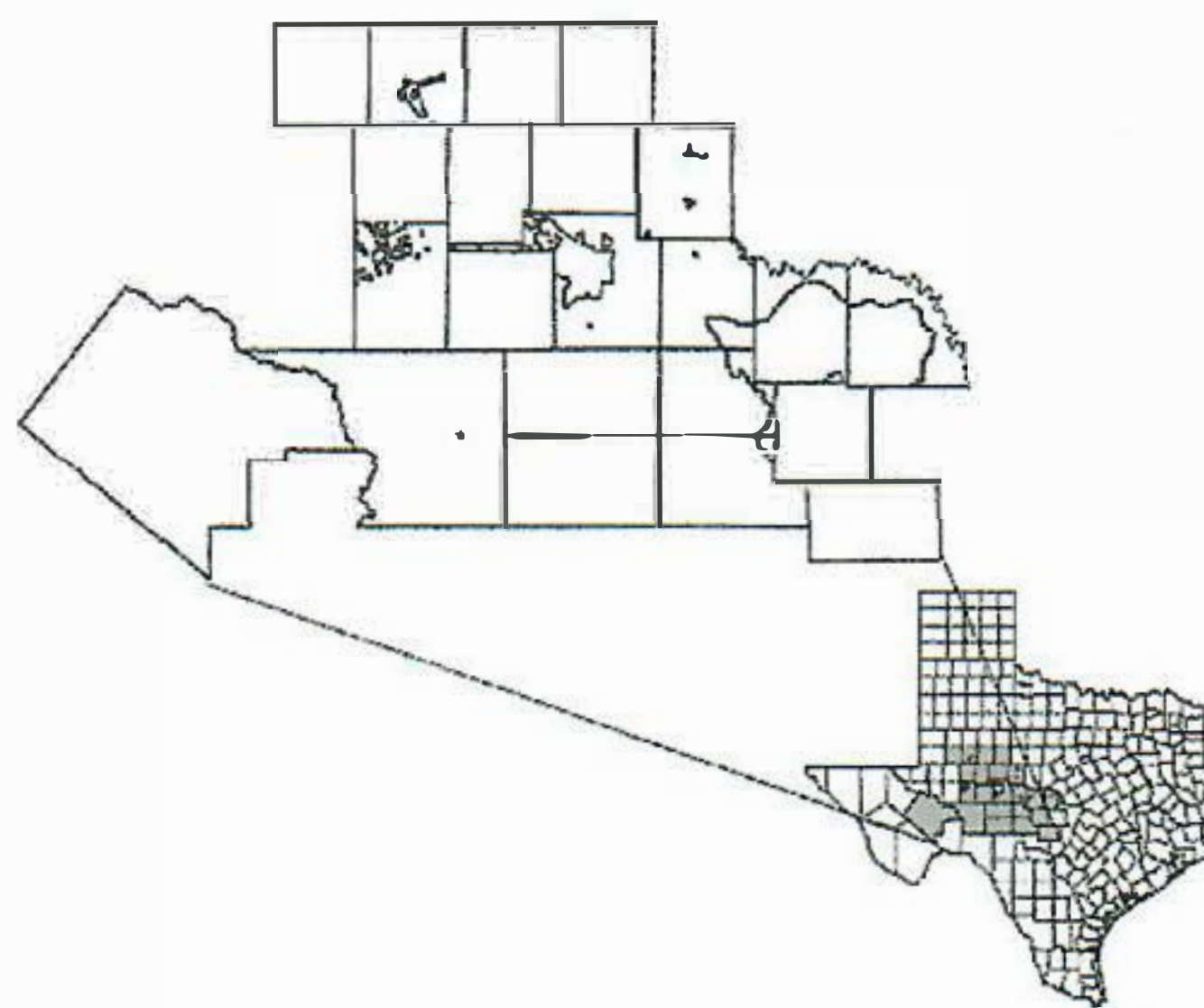


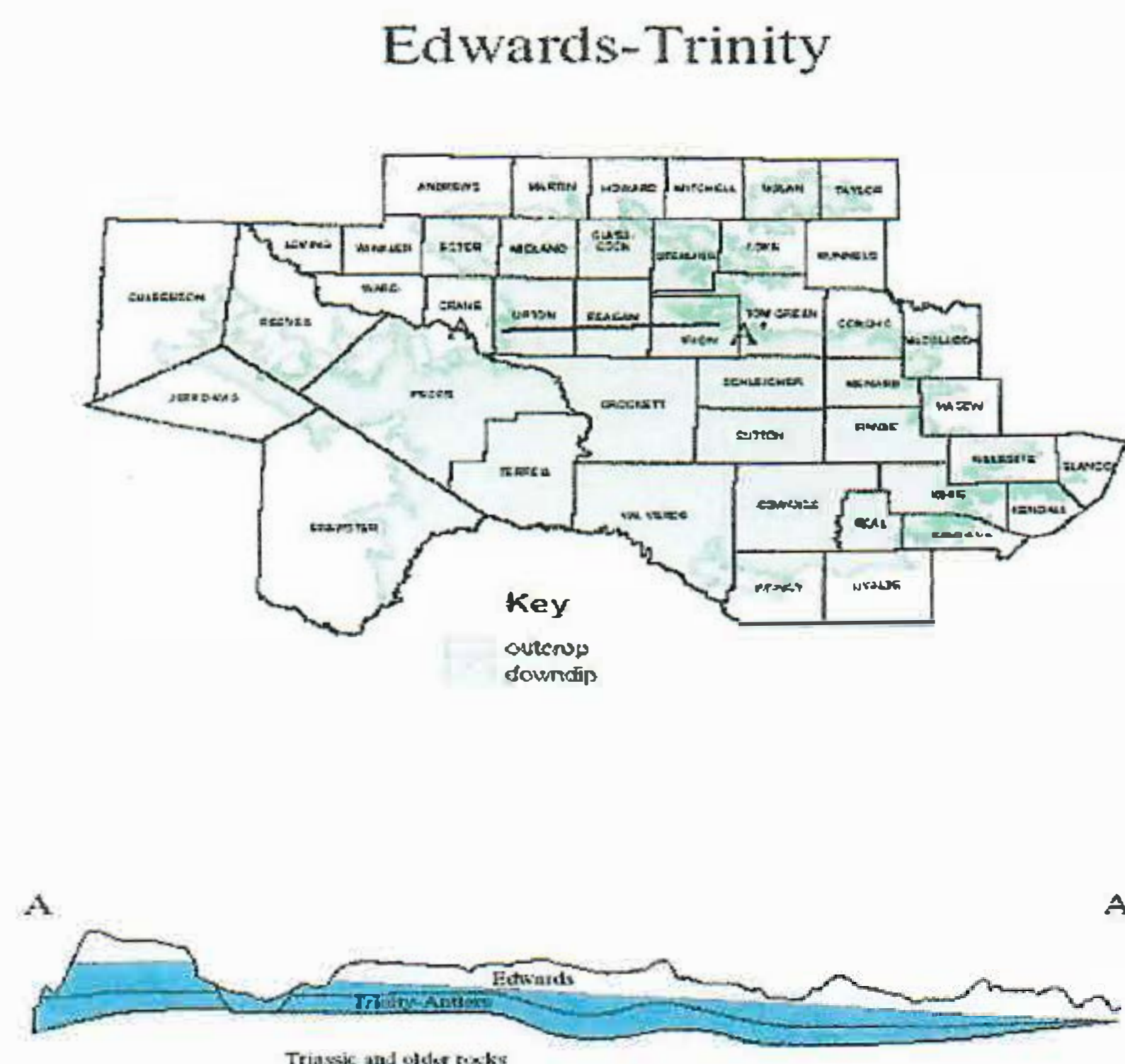
Figure 2. Territory in the West Texas Regional Alliance.

Groundwater Resources of the Crockett County G.C.D.

The primary sources of groundwater in Crockett County are derived from the Edwards-Georgetown aquifer of Cretaceous age, sands of the Trinity Group or Trinity aquifer and unconsolidated alluvium of Quaternary age which overlies the older Cretaceous rocks principally along the Pecos River, Live Oak Creek, Howard Creek and Johnson Draw.

Most of the water wells in Crockett County produce water from the Edwards-Georgetown and the Trinity aquifers for domestic and livestock purposes. Generally, the wells yield only small quantities of water, 1 to 20 gallons per minute, although yields of up to 2,000 gallons per minute have been reported in both aquifers. Groundwater is encountered at varying depths depending primarily upon topography. Water levels in the alluvium along the Pecos River may be only a few feet below surface, while on the high divides, the water level may occur as much as 600 feet below land surface.

The quality of water from wells in Crockett County varies within wide limits, but is generally good quality. The water is typically very hard and generally high in fluoride content. Samples from a few wells indicate that the water is undesirable for domestic use, but only a very few are considered unusable.



SURFACE WATER RESOURCES OF CROCKETT COUNTY GCD

There are no surface water management entities in Crockett County and little to no available surface water within the District with the exception of the Pecos River which forms the western boundary of the district. Although there are a few small surface impoundments used as an efficient means of storage.

TECHNICAL DISTRICT INFORMATION REQUIRED BY TEXAS ADMINISTRATIVE CODE

MODELED AVAILABLE GROUNDWATER

An estimate of the modeled available groundwater for the Crockett County Groundwater Conservation District based on desired future conditions.

Texas Water Code § 36.001 defines modeled available groundwater as “the amount of water that the executive administrator determines may be produced on an average annual basis to achieve a desired future condition established under Section 36.108”.

The joint planning process set forth in Texas Water Code § 36.001 must be collectively conducted by all groundwater conservation districts within the same GMA. The District is a member of GMA 7. The adopted DFC’s were then forwarded to the TWDB for development for the MAG calculations. The submittal package for the DFC’s can be found here:

http://www.twdb.state.tx.us/groundwater/management_areas/DFC.asp

Modeled Available Groundwater

Please refer to Appendix A

Amount of Groundwater being used within the district on an Annual Basis

Please refer to Appendix B *

Annual Amount of Recharge from Precipitation to the Groundwater Resources within the District

Please refer to Appendix C

Annual Volume of Water that Discharges from the Aquifer to springs and surface water bodies

Please refer to Appendix C

Estimate of the Annual Volume of Flow into the District, out of the District, and Between Aquifers in the District

Please refer to Appendix C

Projected Surface Water Supply within the District

Please refer to Appendix B *

Projected Total Demand for Water within the District

Please refer to Appendix B *

Water Supply Needs

Please refer to Appendix B *

*Since the District does not cover all of Crockett County, it is recommended that all estimates presented in the management plan be based on a proportional area percentage. This percentage can be derived by dividing the amount of acres or square miles covered by the District by the total number of acres or square miles contained within Crockett County. The percentage derived by the TWDB is 99.94% (i.e. 0.9995; see the 'Area' tab), but any estimates that the District provides is preferable. It is recommended that the generic county-wide data (e.g. county other, manufacturing, steam electric power, irrigation, livestock) be converted to a percentage of the total county-wide data. These generic county-wide data have been converted to a proportional value (relative to the size of the District) by multiplying each value from the 'County Water Demands' worksheet by 0.9994.

WATER SUPPLY NEEDS

Based on current supply and demand calculations and projections, there are no projected water needs for Crockett County through 2070 according to the 2022 Water Plan.

CROCKETT COUNTY			99.94% (multiplier)				All values are in acre-feet		
RWPG	WUG	WUG Basin	Source Name	2020	2030	2040	2050	2060	2070
F	Livestock, Crockett	Colorado	Colorado Livestock Local Supply	14	14	14	14	14	14
F	Livestock, Crockett	Rio Grande	Rio Grande Livestock Local Supply	16	16	16	16	16	16
F	Mining, Crockett	Rio Grande	Rio Grande Other Local Supply	1,961	1,961	1,961	1,961	1,961	1,961
Sum of Projected Surface Water Supplies (acre-feet)				1,991	1,991	1,991	1,991	1,991	1,991

WATER MANAGEMENT STRATEGIES

Presently, there are no water management strategies listed in the 2022 State Water Plan because there are no water needs projected for the county through 2070, except for oil and gas production which is exempt from district regulation. Preservation and protection of groundwater quantity and quality has been the guiding principle of the District since its creation. The goals and objectives of this plan will provide guidance in the performance of existing District activities and practices. District Rules adopted in 2017 address groundwater withdrawals by means of spacing and/or production limits, waste, and well drilling completion as well as capping and plugging of unused or abandoned wells. The rules are meant to provide equitable conservation and preservation of groundwater resources, protect vested property rights and prevent confiscation of property.

Projected water management strategies listed in the TWDB Estimated Historical Water Use/2022 State Water Plan data packet are: Municipal conservation by demand reduction (Crockett County WCID 1), Irrigation conservation by demand reduction (Crockett County), Weather modification by atmospheric modification, and Mining conservation by demand reduction (Crockett County).

In pursuit of the District's mission to provide for conserving, preserving, protecting, recharging and preventing waste of water resources, the District may exercise the powers, rights and privileges to enforce its rules by injunction, mandatory injunction, or other appropriate remedies in a court of competent jurisdiction as provided for in the Texas Water Code §36.102.

ACTIONS, PROCEDURES, PERFORMANCE AND AVOIDANCE FOR PLAN IMPLEMENTATION

All District activities will be carried out in accordance with this plan and will utilize the provisions of this plan as a guide in prioritizing all District operations.

District rules adopted in 2017 shall be amended and enforced, as necessary, to implement this plan. All rules adopted or amended by the District shall be pursuant to Texas Water Code Chapter 36 and the provisions of this plan. Please refer to Appendix D for the District Rules.

The District shall treat all citizens with equity. Citizens may apply to the District for discretion in enforcement of the rules on grounds of adverse economic effect or unique local characteristics. In granting discretion to any rule, the Board shall consider the potential for adverse effect on adjacent owners and aquifer conditions. The exercise of said discretion by the Board shall not be constructed as limiting the power of the Board.

METHODOLOGY

The methodology that the District will use to trace its progress on an annual basis in achieving all of its management goals will be as follows:

- The District Manager will prepare and present an annual report to the Board of Directors on District performance in regards to achieving management goals and objectives for the previous fiscal year, during the first meeting of each new fiscal year. The reports will include the number of instances each activity was engaged in during the year.
- The annual report will be maintained on file at the District office.

GOALS, MANAGEMENT OBJECTIVES AND PERFORMANCE STANDARDS

Goal 1.0 Providing the most efficient use of groundwater (36.1071(a)(1))

Management Objective

- 1.1 Each year, register all new wells drilled in the District.

Performance Standard

1.1a – District will maintain files including information on the drilling and completion of all new wells in the District.

1.1b - Annually report to the Board of Directors on the number of new wells registered during the year.

Goal 2.0 Controlling and preventing waste of groundwater (36.1071(a)(2))

Management Objective

- 2.1 The District will investigate instances of potential waste of groundwater within 72 hours of receiving complaints.

Performance Standard

2.1a – District Staff will report to the Board of Directors as needed regarding potential waste of groundwater and include the number of investigations in its annual report.

Management Objective

- 2.2 The District will monitor and communicate to well owners any indications

of inefficiency in well operations that might cause waste of groundwater as defined in Appendix A.

Performance Standard

2.2a – The CCGCD Staff will report to the Board at least annually, the number of site visits to check equipment and the number of notices and violations of District rules regarding waste.

Goal 3.0

Addressing natural resource issues (36.1071(a)(5))

Management Objective

3.1 Annually measure 90 percent of wells in the water level monitoring network within the District

Performance Standards

3.1a – Annually report to the Board of Directors the number of wells monitored annually in the Districts water level monitoring network.

Management Objective

3.2 Maintain a district-wide rainfall event network using voluntary monitors and automatic digital rainfall collectors to help evaluate recharge.

Performance Standards

3.2a – Annually report to the Board of Directors the total number of rain gauges in the rainfall monitoring network.

3.2b – Annually report to the Board of Directors the annual rainfall within the District.

Management Objective

3.3 Annually sample 45 percent of the wells in the water quality monitoring network within the District.

Performance Standards

3.3a – Annually report to the Board of Directors the number of wells sampled annually in the Districts water quality monitoring network.

3.3b – Annually report to the Board of Directors any substantial water quality changes that were observed.

Goal 4.0 **Addressing drought conditions (36.1071(a)(6)).**

Management Objective

- 4.1 On a regular basis the District will monitor the U.S. Drought Monitor, the TWDB Water Data for Texas website to help develop strategies that would offset adverse climactic conditions.

<https://www.droughtmonitor.unl.edu/>

<https://www.waterdatafortexas.org/drought>

Performance Standards

4.1a – Provide a report quarterly to the Board of Directors on climactic conditions and proposed management strategies. It will be difficult to meet the water needs of the future without reporting amount of use by the oil field which the District is unable to regulate. The District will encourage conservation from these users and also ask that they report usage to the district voluntarily and will be aware of conditions that could keep the district from meeting their DFC. 1

Goal 5.0 **Addressing conservation and precipitation enhancement (36.1071(a)(7))**

Management Objective

- 5.1 Provide public information programs on water conservation

Performance Standard

5.1a – Annually report to the Board of Directors on the number of programs conducted during the year.

Management Objective: Conservation

- 5.1 Each year the District will publish one article or newsletter on water conservation.

Performance Standard

5.2a – Annually report to the Board of Directors on the number of articles or newsletters published each year.

Management Objective: Precipitation Enhancement

- 5.3 The District will participate in the West Texas Weather Modification Association rainfall enhancement program.

Performance Standards

5.3a – Report monthly to the Board of Directors on West Texas Weather Modification Association activities.

5.3b – Annually provide to the Board of Directors the West Texas

Weather Modification Association Annual Report.

5.3c – Annually provide to the Board of Directors the number of meetings attended by at least one District employee.

Goal 6.0 **Addressing the desired future conditions (36.1071(a)(8))**

The District is actively participating in the joint planning process and the development of a desired future condition for the portion of the aquifer(s) within the District. Although the District does not feel that the “One Size Fits All” Desired Future Conditions process is the most efficient way to evaluate future needs of the Edwards-Trinity aquifer due to the extreme differences in the aquifers throughout the state.

Management Objective

6.1 Annually measure 90 percent of wells in the water level monitoring network within the District.

Performance Standards

6.1a – Annually report to the Board of Directors the number of wells monitored annually in the Districts water level monitoring network. The measurements collected will also be compared to the Desired Future Conditions.

MANAGEMENT GOALS DETERMINED NOT-APPLICABLE

Goal 7.0 **Controlling and preventing subsidence (36.1071(a)(3))**

The rigid geologic framework of the region precludes significant subsidence from occurring, as identified in the *Identification of the Vulnerability of the Major and Minor Aquifers of Texas to Subsidence with Regard to Groundwater Pumping – TWDB Contract Number 1648302062 report*. Table 1.4 on page 1-6 (pdf 28 of 434) summarizes the risk as low for the aquifer as a whole. The subsidence risk at well locations figure on page 4-32 (pdf 81 of 434) visually identifies the risk for Crockett County ranging from insufficient data to low subsidence risk, recognizing that risk is likely skewed due to drillers log descriptions of clay (page 4-31 or pdf 80 of 434). As a result, this management goal is not applicable to the operations of the District.

Goal 8.0 **Addressing conjunctive surface water management issues (36.1071(a)(4))**

There exists only one permitted surface water use in Crockett County – this being treated waste water expelled from Crockett County Water Control and Improvement District No.

l's waste water treatment facility located south of the town of Ozona. The Crockett County GCD has no jurisdiction over surface water or permitted water users.

Goal 9.0 **Addressing recharge enhancement (36.1071(a)(7))**

The size of the District, the diverse topography, and the limited knowledge of any specific recharge sites makes any type of recharge enhancement project economically unfeasible. This management goal is not applicable to the operation of the District.

Goal 10.0 **Addressing rainwater harvesting (36.1071(a)(7))**

The arid nature of the area within the District, with annual rainfall averaging 15 inches or less, makes the cost of rainwater harvesting projects economically unfeasible. This management goal is not applicable to the operations of this District.

Goal 11.0 **Addressing brush control (36.1071(a)(7))**

The District recognizes the benefits of brush control through increased spring flows and the enhancement of native turf which limits runoff. However, most brush control projects within the District are carried out and funded through the NRCS and ample educational material and programs on brush control are provided by the Texas Agrilife Extension Service. This management goal is not applicable to the operations of the District.

SUMMARY DEFINITIONS

“Board of Directors” – the Board of Directors of the Crockett County Groundwater Conservation District.

“District” – the Crockett County Groundwater Conservation District.

“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 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 a 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.
- (7) for water produced from an artesian well “waste” has the meaning assigned by Section 11.205.

APPENDIX

A

GAM Run 21-012 MAG:
Available Groundwater For The Aquifers
In Groundwater Management Area 7

can be accessed at

[GR21-012 MAG.pdf \(texas.gov\)](#)

APPENDIX

B

Estimated Historical Groundwater Use And 2022 State Water Plan Datasets:

Crockett County Groundwater Conservation District

Texas Water Development Board
Groundwater Division
Groundwater Technical Assistance Section
stephen.allen@twdb.texas.gov
(512) 463-7317
June 19, 2023

GROUNDWATER MANAGEMENT PLAN DATA:

This package of water data reports (part 1 of a 2-part package of information) is being provided to groundwater conservation districts to help them meet the requirements for approval of their five-year groundwater management plan. Each report in the package addresses a specific numbered requirement in the Texas Water Development Board's groundwater management plan checklist. The checklist can be viewed and downloaded from this web address:

<http://www.twdb.texas.gov/groundwater/docs/GCD/GMPChecklist0113.pdf>

The five reports included in this part are:

1. Estimated Historical Groundwater Use (checklist item 2)
from the TWDB Historical Water Use Survey (WUS)
2. Projected Surface Water Supplies (checklist item 6)
3. Projected Water Demands (checklist item 7)
4. Projected Water Supply Needs (checklist item 8)
5. Projected Water Management Strategies (checklist item 9)
from the 2022 Texas State Water Plan (SWP)

Part 2 of the 2-part package is the groundwater availability model (GAM) report for the District (checklist items 3 through 5). The District should have received, or will receive, this report from the Groundwater Availability Modeling Section. Questions about the GAM can be directed to Grayson Dowlearn, grayson.dowlearn@twdb.texas.gov (512) 475-1552.

DISCLAIMER:

The data presented in this report represents the most up to date WUS and 2022 SWP data available as of 6/19/2023. Although it does not happen frequently, either of these datasets are subject to change pending the availability of more accurate WUS data or an amendment to the 2022 SWP. District personnel must review these datasets and correct any discrepancies to ensure approval of their groundwater management plan.

The WUS dataset can be verified at this web address:

<http://www.twdb.texas.gov/waterplanning/waterusesurvey/estimates/>

The 2022 SWP dataset can be verified by contacting Sabrina Anderson (sabrina.anderson@twdb.texas.gov or 512-936-0886).

The values presented in the data tables of this report are county based. In cases where groundwater conservation districts cover only a portion of one or more counties the data values are modified with an apportioning multiplier to create new values that more accurately represent conditions within district boundaries. The multiplier used in the following formula is a land area ratio: $(\text{data value} * (\text{land area of district in county} / \text{land area of county}))$. For two of the four SWP tables (Projected Surface Water Supplies and Projected Water Demands) only the county-wide water user group (WUG) data values (county other, manufacturing, steam electric power, irrigation, mining and livestock) are modified using the multiplier. WUG values for municipalities, water supply corporations, and utility districts are not apportioned; instead, their full values are retained when they are located within the district, and eliminated when they are located outside (we ask each district to identify these entity locations).

The remaining SWP tables (Projected Water Supply Needs and Projected Water Management Strategies) are not modified because district-specific values are not statutorily required. Each district needs only “consider” the county values in these tables.

In the WUS table every category of water use (including municipal) is apportioned. Staff determined that breaking down the annual municipal values into individual WUGs was too complex.

TWDB recognizes that the apportioning formula used is not ideal but it is the best available process with respect to time and staffing constraints. If a district believes it has data that are more accurate it can add those data to the plan with an explanation of how the data were derived. Apportioning percentages that the TWDB used are listed above each applicable table.

For additional questions regarding this data, please contact Stephen Allen (stephen.allen@twdb.texas.gov or 512-463-7317).

Estimated Historical Water Use

TWDB Historical Water Use Survey (WUS) Data

Groundwater and surface water historical use estimates are currently unavailable for calendar year 2020. TWDB staff anticipates the calculation and posting of these estimates at a later date.

CROCKETT COUNTY

99.94% (multiplier)

All values are in acre-feet

Year	Source	Municipal	Manufacturing	Mining	Steam Electric	Irrigation	Livestock	Total
2019	GW	1,029	0	145	0	17	509	1,700
	SW	0	0	0	0	0	27	27
2018	GW	1,085	0	720	0	15	509	2,329
	SW	0	0	0	0	0	27	27
2017	GW	1,120	0	1,703	0	27	495	3,345
	SW	0	0	0	0	0	26	26
2016	GW	1,079	33	1,057	0	17	465	2,651
	SW	0	0	0	0	0	24	24
2015	GW	1,175	30	1,322	0	16	465	3,008
	SW	0	0	0	0	0	24	24
2014	GW	1,401	8	2,784	0	21	420	4,634
	SW	0	0	0	0	0	22	22
2013	GW	1,367	13	2,689	0	16	468	4,553
	SW	0	0	0	0	0	24	24
2012	GW	1,497	14	1,224	0	208	497	3,440
	SW	0	0	0	0	0	27	27
2011	GW	1,747	14	69	0	284	553	2,667
	SW	0	0	0	0	0	30	30
2010	GW	1,418	10	123	0	148	562	2,261
	SW	0	0	23	0	0	30	53
2009	GW	1,400	9	188	0	0	611	2,208
	SW	0	0	33	0	0	32	65
2008	GW	1,312	18	258	0	363	618	2,569
	SW	0	0	44	0	0	32	76
2007	GW	1,290	18	25	0	381	637	2,351
	SW	0	0	0	0	0	34	34
2006	GW	1,293	18	40	0	485	647	2,483
	SW	0	0	0	0	0	34	34
2005	GW	1,297	14	49	0	427	613	2,400
	SW	0	0	0	0	0	32	32
2004	GW	1,194	14	50	0	315	492	2,065
	SW	0	0	0	0	0	163	163

Projected Surface Water Supplies

TWDB 2022 State Water Plan Data

CROCKETT COUNTY99.94% (multiplier)All values are in acre-feet

RWPG	WUG	WUG Basin	Source Name	2020	2030	2040	2050	2060	2070
F	Livestock, Crockett	Colorado	Colorado Livestock Local Supply	14	14	14	14	14	14
F	Livestock, Crockett	Rio Grande	Rio Grande Livestock Local Supply	16	16	16	16	16	16
F	Mining, Crockett	Rio Grande	Rio Grande Other Local Supply	1,961	1,961	1,961	1,961	1,961	1,961
Sum of Projected Surface Water Supplies (acre-feet)				1,991	1,991	1,991	1,991	1,991	1,991

Projected Water Demands

TWDB 2022 State Water Plan Data

Please note that the demand numbers presented here include the plumbing code savings found in the Regional and State Water Plans.

CROCKETT COUNTY

99.94% (multiplier)

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
F	County-Other, Crockett	Rio Grande	27	20	18	17	17	17
F	Crockett County WCID 1	Rio Grande	1,533	1,641	1,655	1,672	1,677	1,680
F	Irrigation, Crockett	Colorado	6	6	6	6	6	6
F	Irrigation, Crockett	Rio Grande	129	129	129	129	129	129
F	Livestock, Crockett	Colorado	14	14	14	14	14	14
F	Livestock, Crockett	Rio Grande	513	513	513	513	513	513
F	Manufacturing, Crockett	Rio Grande	14	15	15	15	15	15
F	Mining, Crockett	Rio Grande	4,497	4,497	3,098	1,699	500	200
Sum of Projected Water Demands (acre-feet)			6,733	6,835	5,448	4,065	2,871	2,574

Projected Water Supply Needs

TWDB 2022 State Water Plan Data

Negative values (in red) reflect a projected water supply need, positive values a surplus.

CROCKETT COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
F	County-Other, Crockett	Rio Grande	0	0	0	0	0	0
F	Crockett County WCID 1	Rio Grande	0	0	0	0	0	0
F	Irrigation, Crockett	Colorado	0	0	0	0	0	0
F	Irrigation, Crockett	Rio Grande	0	0	0	0	0	0
F	Livestock, Crockett	Colorado	0	0	0	0	0	0
F	Livestock, Crockett	Rio Grande	0	0	0	0	0	0
F	Manufacturing, Crockett	Rio Grande	0	0	0	0	0	0
F	Mining, Crockett	Rio Grande	689	587	1,962	1,962	1,962	1,962
Sum of Projected Water Supply Needs (acre-feet)			0	0	0	0	0	0

Projected Water Management Strategies

TWDB 2022 State Water Plan Data

CROCKETT COUNTY

WUG, Basin (RWPG)		All values are in acre-feet					
Water Management Strategy	Source Name [Origin]	2020	2030	2040	2050	2060	2070
Crockett County WCID 1, Rio Grande (F)							
Municipal Conservation - Crockett County WCID	DEMAND REDUCTION [Crockett]	12	13	13	13	13	13
		12	13	13	13	13	13
Irrigation, Crockett, Colorado (F)							
Irrigation Conservation - Crockett County	DEMAND REDUCTION [Crockett]	0	1	1	1	1	1
		0	1	1	1	1	1
Irrigation, Crockett, Rio Grande (F)							
Irrigation Conservation - Crockett County	DEMAND REDUCTION [Crockett]	7	13	19	19	19	19
Weather Modification	Weather Modification [Atmosphere]	1	1	1	1	1	1
		8	14	20	20	20	20
Mining, Crockett, Rio Grande (F)							
Mining Conservation - Crockett County	DEMAND REDUCTION [Crockett]	315	315	43	24	7	3
		315	315	43	24	7	3
Sum of Projected Water Management Strategies (acre-feet)		335	343	77	58	41	37

APPENDIX

C

GAM Run 23-006:
Crockett County Groundwater
Conservation District Management Plan

can be accessed at

[GR23-006.pdf \(texas.gov\)](#)

APPENDIX

D

Rules of the
Crockett County Groundwater
Conservation District

As Amended February 6, 2017

can be accessed at

<https://www.crockettcountygcd.com/rules-and-bylaws>

APPENDIX E

Crockett County Groundwater Conservation District

PO Box 1458, 201 11th Street, Ozona, Texas 76943

Phone: (325) 392-5156 Fax: (325) 392-3135

Email: crockettcountygcd@gmail.com

WHEREAS, the Crockett County Groundwater Conservation District (District) was created by Acts of the 71st Legislature (1989), p. 3245, Ch. 712, S.B. 1635 in accordance with Article 16, Section 59 of the Constitution of Texas and Chapters 35 and 36 of the Texas Water Code, as amended; and

WHEREAS, the District is required by SB1 through Chapter 36.1071 of the Texas Water Code to develop and adopt a Management Plan; and

WHEREAS, the District is required by SB1 to submit the adopted Management Plan to the Executive Administrator of the Texas Water Development Board for review and re-certification by September 14, 2023; and,

WHEREAS, the District's Management Plan shall be certified by the Executive Administrator if the plan is administratively complete; and

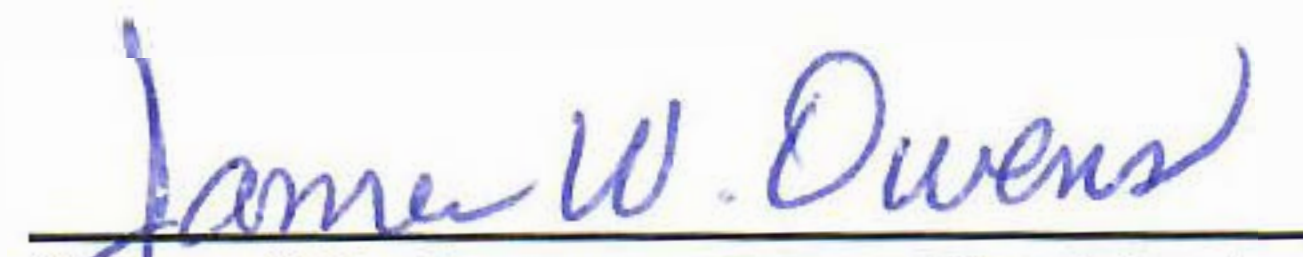
WHEREAS, the District Board of Directors, after reviewing the existing Management Plan, has determined that this plan should be replaced with an amended Management Plan; and


WHEREAS, the District Board of Directors has determined that the amended Management Plan addresses the requirements of Chapter 36.1071.

NOW, THEREFORE, be it resolved, that the Board of Directors of the Crockett County Groundwater Conservation District, following notice and hearing, hereby adopts this amended Management Plan to replace the existing Management Plan; and

FURTHER, be it resolved, that this amended Management Plan shall become effective immediately upon adoption.

Adopted this 8th day of April, 2024, by the Board of Directors of the Crockett County Groundwater Conservation District.


James W. Owens – Vice President


Paul C. Perner, III – Board President

APPENDIX

F

NOTICE

The Crockett County Groundwater Conservation District Board of Directors will hold a Public Hearing on the 8th day of April, 2024 at 4:00 pm at The Crockett County Groundwater Conservation District office at 201 11th Street, Ozona, Texas.

FILED
AT 11:14 O'CLOCK AM

APR - 4 2024

AGENDA

NINFA PREDDY
CLERK OF COUNTY COURT, CROCKETT CO., TX
BY NK DEPUTY

- I. Call to Order
- II. Adopt the Resolution to approve the 2023 Management Plan – (Decision Item)
- III. Adjourn

Any other items as may become pertinent or relevant.

PLEASE post this notice at least ten (10) days prior to the day of the meeting.


Slate Williams - District Manager

Posted this 4th day of April 2024, at 11:14 AM o'clock.

By: 