

**Kenedy County Groundwater Conservation District
2021 Annual Report
January 19, 2022**

The purpose of this Annual Report is to highlight the District's achievements in meeting the goals, management objectives and performance standards outlined in section X of the Management Plan.

GOALS, MANAGEMENT OBJECTIVES AND PERFORMANCE STANDARDS

A. Efficient Use of Groundwater

Management objectives and performance standards for providing the most efficient use of groundwater, as required by Texas Water Code § 36.1071(a)(1) and 31 TAC §356.5(a)(1)(A).

1. Objective: The District will continue to register all new wells and locate and register any existing well that may not yet have been registered.

1. Performance Standard: All registered wells are entered into the District's water well database. This includes information from the registration forms, the registration certificate, and for new wells, the drilling log. All information reported to the District regarding each registered well will be entered into the District's water well database. The number of registered wells will be presented in the District's annual report.

Three (3) new wells were registered.

4. Objective: The District will continue to require an operating permit for all non-exempt wells.

4. Performance Standard: All permitted non-exempt wells will be entered into the District's water well database, including the application, the permit, annual water use reports, any water quality reports, the driller's log, and any other information available to the District about the wells. The number of wells permitted by the District will be noted in the District annual report.

No permits for non-exempt wells were issued. Listing of all public water supply wells and other wells currently under permit can be found in Appendix A.

5. Objective: The District will develop a method of tracking acreage associated with all wells permitted under District Rules as "new wells" under the District's correlative rights production limits.

5. Performance Standard: The District will provide a certificate to each permittee designating the total acreage allocated to each permit. A copy of these certificates will be entered into the District database for each of these permitted wells. The number of such certificates that are issued will be included in the District annual report.

No certificates were issued.

6. Objective: Each year, the district will contact all water well service companies doing business in the District and will provide written educational information about District rules and policies.

6. Performance Standard: The Board of Directors will approve the content of each year's letter based on activities and emerging issues within the District. A file copy of these letters will be kept in the District Office. Each year, the District's annual report will include a list of licensed water well drillers and pump installers doing business in the District and a copy of the educational information provided.

Letters were mailed to 10 water well drillers/pump installers.

See Appendix B.

7. Objective: The District will continue to maintain a database that is current with all data acquired by the District about all registered and permitted wells in the District.

7. Performance Standard: Each year, the District's annual report pertinent to items A.1 through A.5 will be derived from the database. Additionally, the report will contain an evaluation of the software being used for the database, and any recommendations regarding needed changes.

District continues to maintain database and all data acquired is being uploaded as time allows. Currently, database is being administered by Williams Web Solutions. Glitches in software are addressed as they occur.

B. Preventing Waste of Groundwater

Management objectives and performance standards for controlling and preventing waste of groundwater, as required by Texas Water Code § 36.1071(a)(2) and 31 TAC §356.5(a)(1)(B).

1. Objective: The District will conduct an on-site investigation within two working days of receiving a report of waste of groundwater.

1. Performance Standard: If the District receives a report of waste of groundwater, the General Manager will prepare a written report of the outcome of the investigation and will present it to the Board of Director's at the next Board meeting. A discussion of the waste of groundwater observed by the District, including the number of reports of waste received during the year and the District's response to the reports will be included in the District's annual report.

No reports on waste of groundwater were received.

C. Controlling Subsidence

Management objectives and performance standards for controlling and preventing subsidence, as required by Texas Water Code § 36.1071(a)(3) and 31 TAC §356.5(a)(1)(C).

1. Objective: The Gulf Coast Aquifer contains sufficient amounts of clays interbedded within fairly prolific sand and gravel formations to be vulnerable to subsidence. The current groundwater uses, especially near the coastal areas of the District, are not sufficient to cause dewatering from the clay with a resultant loss of support pressure. The District will evaluate possible subsidence impacts of any near coast, large-scale groundwater production proposal (greater than 100 acre-feet/year).

1. Performance Standard: As part of the Operating Permit Application process, the District will be appropriately evaluate possible subsidence impacts of any near coast, large-scale groundwater production proposal (greater than 100 acre-feet/year). The evaluation will be presented to the Board of Directors during the Operating Permit Application consideration. The number and a description of any near coast, large-scale groundwater production proposals will be presented in the District's annual report, and will include the District's evaluation for possible subsidence impacts from the proposals.

No large-scale production proposals that may cause subsidence have been brought before the District.

D. Conjunctive Surface Water Management

Management objectives and performance standards for addressing conjunctive surface water management issues, as required by Texas Water Code § 36.1071(a)(4) and 31 TAC §356.5(a)(1)(D).

1. Objective: Each year the District will participate in the regional planning process by attending a minimum of two meetings of the Region N Regional Water Planning Group per fiscal year.

1. Performance Standard: The District representative will give an oral report at the District Board meeting following the Region N meeting and the report will be reflected in the minutes of that Board meeting. Additionally, the District's annual report will include the number of Region N meetings attended during the year and the dates of those meetings.

The President and/or General Manager attended 2 Region N meetings. The meeting dates were July 1 and October 7 2021.

E. Natural Resource Issues and Groundwater

Management objectives and performance standards for addressing natural resource issues that impact the use and availability of groundwater and which are impacted by the use of groundwater, as required by Texas Water Code § 36.1071(a)(5) and 31 TAC §356.5(a)(1)(E).

1. Objective: The District will continue to require registration of and a plugging report on all wells that are plugged each year. Additionally the District will require a landowner to register all plugged wells when the landowner becomes aware of their existence.

1. Performance Standard: The number of plugging reports received by the District will be noted in the District annual report. All registered plugged wells will be entered into the District's water well database, including the registration application, the registration certificate, and the plugging report, if the well is newly plugged.

Seven (7) plugging reports were submitted to the District.

2. Objective: The District will require registration of all wells covered by a P-13 submitted to the Railroad Commission. When an operator abandons an oil or gas well and desires to convert it into a potential water well, he must submit a P-13 Form. These wells are considered to be water wells under District Rules, regardless of whether water is ever produced from them.

2. Performance Standard: After approval of this management plan, the District will include information about this requirement in the first annual education letter to all water well service companies and to all oil and gas operators doing business in the District. The District will also study the feasibility of identifying P-13 wells by working with the Railroad Commission. The number of P-13 wells registered with the District will be noted in the District annual report.

One (1) P-13 well was registered with the District.

3. Objective: Once each year, the District will monitor temperature, total dissolved solids, pH, and electric conductivity by taking measurements of at least 25 wells through the voluntary monitoring project described in A.8.

3. Performance Standard: The number of wells to be measured may be increased as necessary. The water quality data will be entered into the District's water well database. The results of each round of annual measurement events will be provided to the Board of Directors within 30 days after completion of measurement collection and analysis and included in the annual report.

See appendix C for results.

F. Drought Conditions

Management objectives and performance standards for addressing drought conditions, as required by Texas Water Code § 36.1071(a)(6) and 31 TAC §356.5(a)(1)(F).

1. Objective: Links to NOAA Climate Monitoring web-page (<http://www.ncdc.noaa.gov/oa/climate/research/prelim/drought/palmer.html>) and to the Texas Water Development Drought page (<http://www.twdb.state.tx.us/data/drought>) will be maintained on the District website to provide short-term and long-term drought information.

1. Performance Standard: At least quarterly, the website will be checked to ensure that the links are still current. The General Manager will assess the status of drought in the District and prepare a quarterly briefing to the Board showing the impact of drought or weather conditions on water levels. The District's annual report will include the downloaded PDSI maps, Situation Reports, and copies of the quarterly briefing.

**The Board received quarterly drought assessment reports.
See Appendix D for copies of reports.**

G. Conservation Measures

Management objectives and performance standards for addressing conservation, recharge enhancement, rainwater harvesting, precipitation enhancement, brush control where appropriate and cost effective, as required by Texas Water Code § 36.1071(a)(7) and 31 TAC §356.5(a)(1)(G).

1.a. Conservation Objective: The District will collaborate with the local USDA-Natural Resources Conservation Service (NRCS) field office and submit an article on water conservation for publication each year to at least one newspaper of general circulation in the District and post it on the District website.

1.a. Conservation Performance Standard: A copy of the published article on conservation will be included in the District's annual report.

See Appendix E for copy of published article.

1.b. Conservation Objective: The General Manager will be available to present water conservation programs to schools, 4-H clubs, scouting units and community groups on a request basis. These programs will be scheduled through the District office and will be appropriate for the various audiences. Depending on availability, the District will make every effort to distribute, on an annual basis, conservation education materials to schools that serve students from the District.

1.b. Conservation Performance Standard: A summary of programs presented, content and audience group will be included in the annual report. A bibliography of any conservation literature provided to the audience by the District will be included in the report with the summary.

Major Rivers, an environmental awareness and water education program, was distributed to schools in Sarita and Santa Gertrudis.

See Appendix F for information on the program.

1.c. Conservation Objective: The General Manager will monitor all continuing education classes on drought and conservation that would be beneficial and attend with the Board's approval.

1.c. Conservation Performance: A summary of classes attended will be included in the annual report.

2. Recharge Enhancement Objective: The District, with the services of a consultant, will attempt to identify recharge areas within the District and present them in connection with the biennial report on water monitoring results.

2. Recharge Performance Standard: All recharge areas identified within the District will be listed in the annual report.

Being that recharge occurs as a result of precipitation anywhere within the District, no new specific recharge areas have been identified.

3. Rainwater Harvesting: This management goal category is not applicable to the District due to a low population number.

4. Precipitation Enhancement: The District has no plans to participate in precipitation enhancement because it has not been proven to be cost effective and is not feasible for the District.

5. Brush Control Objective: Annually, the District will contact the USDA-NRCS and the Kleberg-Kenedy Soil and Water Conservation District (SWCD) offices to obtain information about brush control and make that information available to the public.

5. Brush Control Performance Standard: All information on brush control obtained from the USDA-NRCS and the Kleberg-Kenedy SWCD offices and provided to the public will be reported in the District's annual report and posted on the website.

Any person requesting information on Brush Control is referred to the USDA-NRCS field office in Kingsville, TX. Links to Brush Control can be found on the District's website.

H. Desired Future Conditions

Management objectives and performance standards for addressing the desired future condition of the groundwater resources in the District (if available from the districts in the groundwater management area), as required by Texas Water Code § 36.1071(a)(8) and 31 TAC §356.5(a)(1)(H).

As per Resolution No. R2017-01 submitted in January, 2017, the authorized voting representatives for Groundwater Management Area 16 established a desired future condition (DFC) of the Gulf Coast aquifer which was an area-wide average drawdown of approximately 62 feet through 2060. The DFC established for the Kenedy County GCD was a drawdown of 40 feet in 2060.

1. Objective: The District-wide, voluntary monitoring project will be maintained and includes biennial measurements of hydrostatic levels from approximately 50 wells and the hydrostatic level to bottom of screen measurements in those wells where the screen depth is known.

1. Performance Standard: The number of wells to be included in the monitoring project may be increased as necessary. The respective hydrostatic levels and other related data will be entered into the District's water well database. The results of each round of biennial measurements will be provided to the Board of Directors within 30 days of completion of the measuring round. The number of wells involved in the project and the respective static levels will be included in the District's annual report.

Hydrostatic levels are being monitored on approximately 50 wells twice per year.

See Appendix G for results.

2. Objective: The District will monitor groundwater withdrawals in the District to evaluate compliance with the desired future condition.

2. Performance Standard: As part of the biennial report on water level measurements from the monitoring program described in A.8, above, the General Manager will include in his written report to the Board an evaluation of the drawdown relative to the DFC.

Monitoring of the drawdown relative to the DFC for the Kenedy County GCD will be conducted yearly during the month of February.

See Appendix H for results.

XI. METHODOLOGY FOR TRACKING PROGRESS

Methodology for tracking progress in meeting management goals, objectives, and performance standards, as required by 31 TAC § 356.5(a)(6).

As mentioned in the management objectives and performance standards above, written reports will be presented to the Board of Directors on a timely manner, based on the objective. Additionally, as described in section X, all data related to water wells in the District will be entered into the District's water well database.

The General Manager will prepare and present to the board of directors (BOD) an Annual Report covering District performance in achieving management goals and objectives for the preceding fiscal year. The report will be presented to the BOD in January of the following year. The District will maintain the report in its files and will have copies available to the public. Once the report is approved by the Board, it will be posted on the website.

Appendix A

**Kenedy County GCD
Permitted Wells
2021**

District Well #

143
179
210
215
831
832
833
834
835
836
837
838
934
935
936
937
939
1034
1035
1036
1037
1085
1086
1094
1095
1096
1097
1098
1099
1254
1255
1256
1299
1300
1453
1505

Appendix B

KENEDY COUNTY GROUNDWATER CONSERVATION DISTRICT

P. O. Box 212
SARITA, TEXAS 78385

HOMERO VERA
President
EDWARD BORDOVSKY
Vice President

VERL CASH
Secretary/Treasurer
DAN BUTLER
Board Member
SONNY BURNS
Board Member

Sept. 7, 2021

Cinco-E, Inc.
612 W. Kohler
Hebbronville, TX 78361

RE: Kenedy County Groundwater Conservation District

Dear Sir,

As a water well service provider doing business in the Kenedy County Groundwater Conservation District (GCD), the District wants to thank you for your continued cooperation and assistance in ensuring compliance with District Rules regarding water wells. This letter is part of the District's ongoing commitment to open communication and public education.

I am the General Manager of the Kenedy County GCD. The District's contact information is available in the header and footer of this page and on the District's website at www.kenedygcd.com.

District Boundaries and Well Registration

You are probably aware that the District includes all of Kenedy County and parts of Brooks, Hidalgo, Jim Wells, Kleberg, Nueces, and Willacy counties. No additional territory has been annexed since October, 2012. The District's website contains a current map. When trying to determine whether a proposed water well will be located within the District, we ask that you confer with the landowner and check the District map that is enclosed to determine if the well needs to be registered. Your assistance on this matter will be greatly appreciated by our District. If you still have questions about whether the location falls inside the District, feel free to contact me and I will assist you in making this determination. Email me at general_manager@kenedygcd.com or call at (361) 294-5336.

Spacing From Property Lines

District rule 10.4 pertains to spacing of water wells from property lines. Please refer to attachment that explains this particular rule.

Andres Garza, General Manager
Phone: 361-294-5336
Fax: 361-294-5244
E-Mail: General_manager@kenedygcd.com

Homero Vera, President
P.O. Box 163
Sarita, TX 78385
Phone: 361-296-5227

Converting Dry Holes into Water Wells

Occasionally, when drilling for oil or gas, the operator encounters a dry hole. Sometimes, the landowner requests that rather than plugging the hole to the surface, the operator convert the hole into a water well. When this is planned, a Form P-13 must be submitted to the Railroad Commission of Texas. When this occurs, the well owner must register the well with the District, following District rules applicable to any other water well. If this occurred before October 8, 2009, the water well would be considered to be subject to the rules associated with "existing" wells. If this occurs after October 8, 2009, the water well is considered to be a "new" well and must comply with new well regulations. This means that prior to submitting the P-13, the water well must be registered with the District. If the water well will not be completed at that time, it must be registered as an inactive well and must be properly capped. When registering the well, a copy of the P-13 must be provided to the District. Once the water well is completed and ready for production, the owner must submit a Report of Change in Well Conditions or Operations, noting the changes from an inactive to an active water well.

District Rules

As a result of HB 30 passed by the Texas legislature in 2015, the Texas Water Development Board designated 2 brackish groundwater production zones in the Kenedy County GCD. One zone is 97% and the other is 33% in our GCD. Now that HB 722, passed in 2019, is in effect, our GCD has promulgated rules for brackish groundwater production from the designated zones. The most current District rules can be found at www.kenedygcd.com.

District Management Plan

In accordance with Chapter 36 of the Texas Water Code, the District Management Plan must be reviewed and updated, if necessary, every five years. Our Management Plan was last revised and approved by the Texas Water Development Board in July, 2017. The Management Plan will again be reviewed and revised, if necessary, in 2022. The current Management Plan can be found on our website.

Board of Directors

Three new appointments have been made to the Kenedy County GCD board of directors. The newly appointed directors are Edward Bordovsky representing Precinct 2, Sonny Burns representing Precinct 3 and Verl Cash representing Precinct 5.

Please feel free to contact the District if you have any questions.

Sincerely,

Andy Garza
General Manager

Enclosures: Map and rule 10.4

**Water Well Drillers/Services
Kenedy County Groundwater Conservation District
2021**

- 1. Martin Water Wells**
- 2. Richardson Water Wells**
- 3. Neely Water Well Services, Inc.**
- 4. Babe Page Water Well Drilling**
- 5. Cinco-E Inc.**
- 6. Edward Pawlik & Sons**
- 7. Haner Water Well Services**
- 8. R. Molina Water Well Drilling**
- 9. J & S Water Wells**
- 10. Maral Drilling Co.**

Appendix C

**Water Chemistry
Kenedy County GCD**

8/9/2021

Prepared by: Andy Garza

Well #	Name	TDS*	EC**	pH
681(2)	Maranita	2250	4.51	8.30
758(1)	Sorillo	840	1.68	8.60
135(3)	S. Vargas Cr.	830	1.67	7.75
309(4)	La Curva	1370	2.73	8.32
319(4)	La Fortuna	1470	2.44	8.41
791(3)	Maleta	1800	3.6	8.14
662(1)	La Parra	1120	2.23	8.07
	Los Olmos	900	1.81	7.9
	Stella WF	1100	2.19	8.9
843(1)	Palomas	805	1.61	8.09
842(1)	Carricitos	1050	2.09	8.13
576(5)	Ratones	2310	4.61	8.25
1260(3)	Armstrong #1	980	1.96	8.46
98(2)	Alt,d/l Pita	750	1.48	8.09

*ppm
**mS/cm

Appendix D

U.S. Drought Monitor Texas

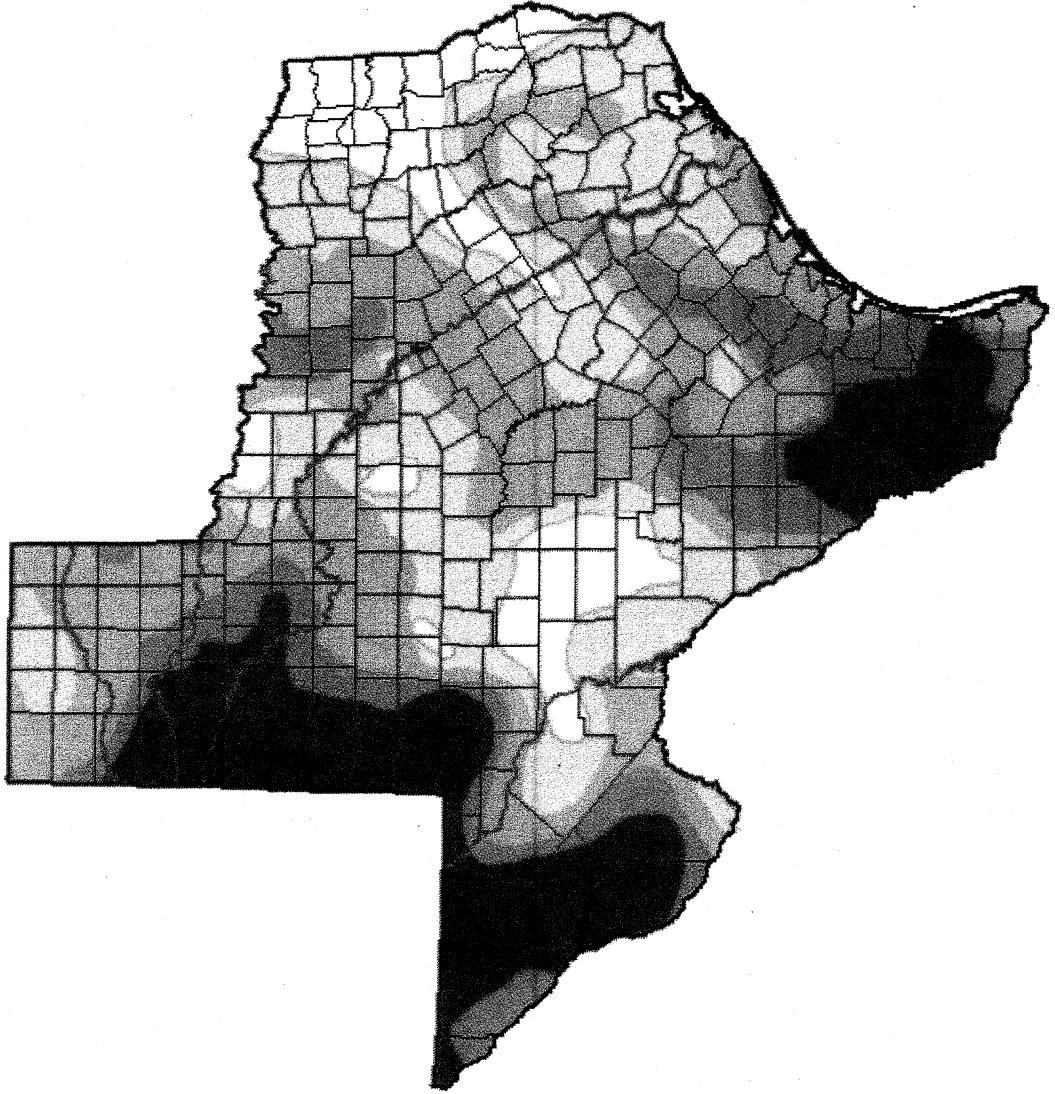
March 9, 2021

(Released Thursday, Mar. 11, 2021)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	10.83	89.17	62.49	32.36	18.27	6.10
Last Week 03-02-2021	19.28	80.72	54.03	30.38	17.11	5.01
3 Months Ago 12-09-2020	5.23	94.77	79.18	45.18	25.16	13.03
Start of Calendar Year 12-29-2020	6.80	91.20	81.10	50.33	30.09	13.03
Start of Water Year 09-29-2020	57.35	42.65	31.96	20.91	12.02	3.29
One Year Ago 03-10-2020	66.09	33.91	20.84	14.94	5.87	0.00



Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:
Brian Fuchs
National Drought Mitigation Center



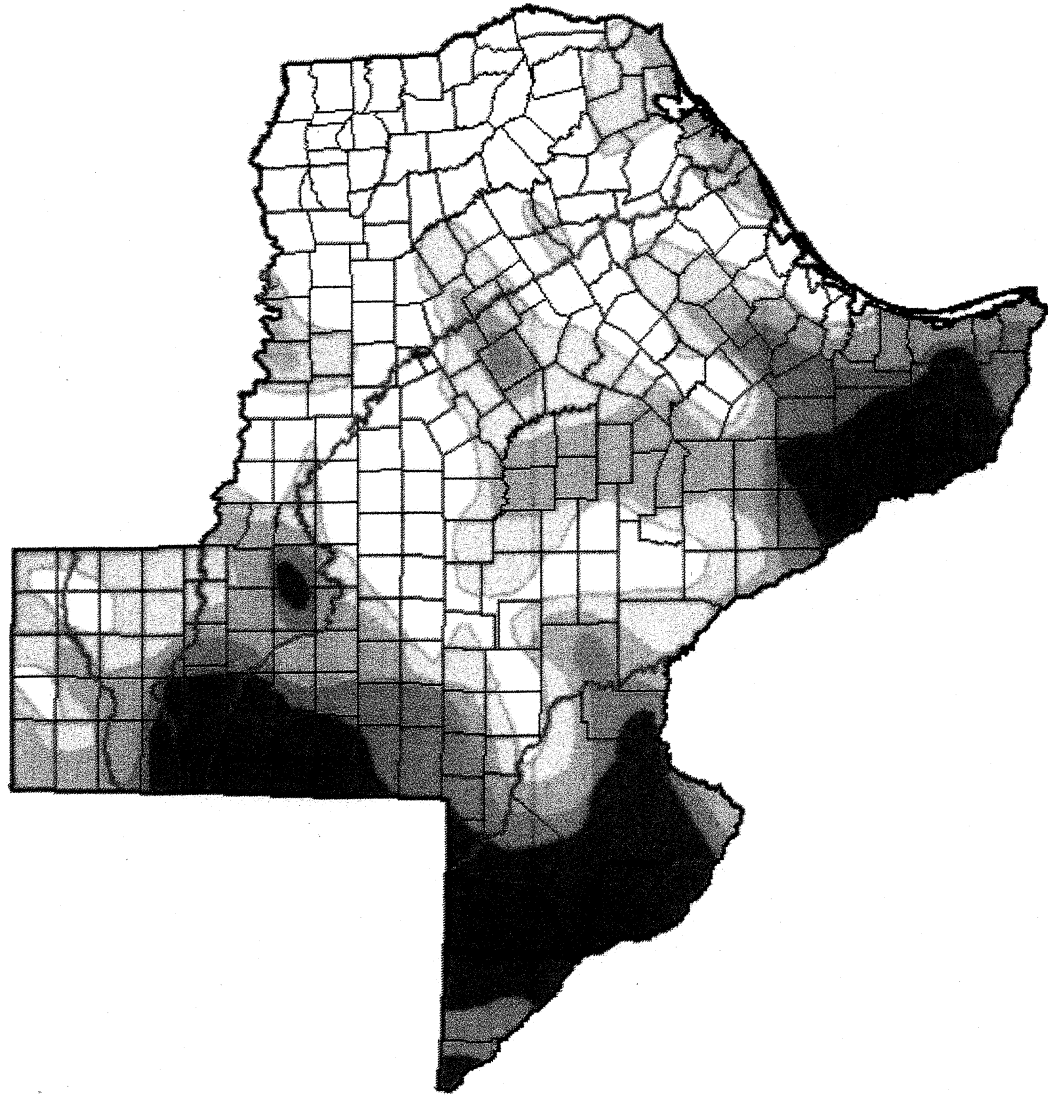
4i

U.S. Drought Monitor Texas

May 11, 2021

(Released Thursday, May 13, 2021)

Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	34.32	65.68	44.29	27.69	16.88	7.85
Last Week 05-04-2021	33.23	66.77	45.00	27.61	16.73	7.85
3 Months Ago 02-09-2021	25.72	74.28	46.98	30.24	18.16	5.56
Start of Calendar Year 12-29-2020	8.80	91.20	81.10	50.33	30.09	13.03
Start of Winter Year 09-29-2020	57.35	42.65	31.96	20.91	12.02	3.29
One Year Ago 05-12-2020	54.68	45.32	14.65	5.44	1.99	0.00

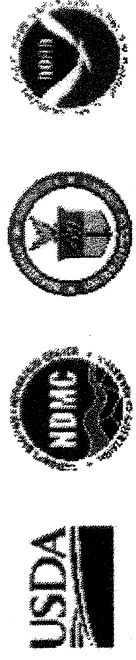
Intensity:



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Author:

David Simeral
Western Regional Climate Center

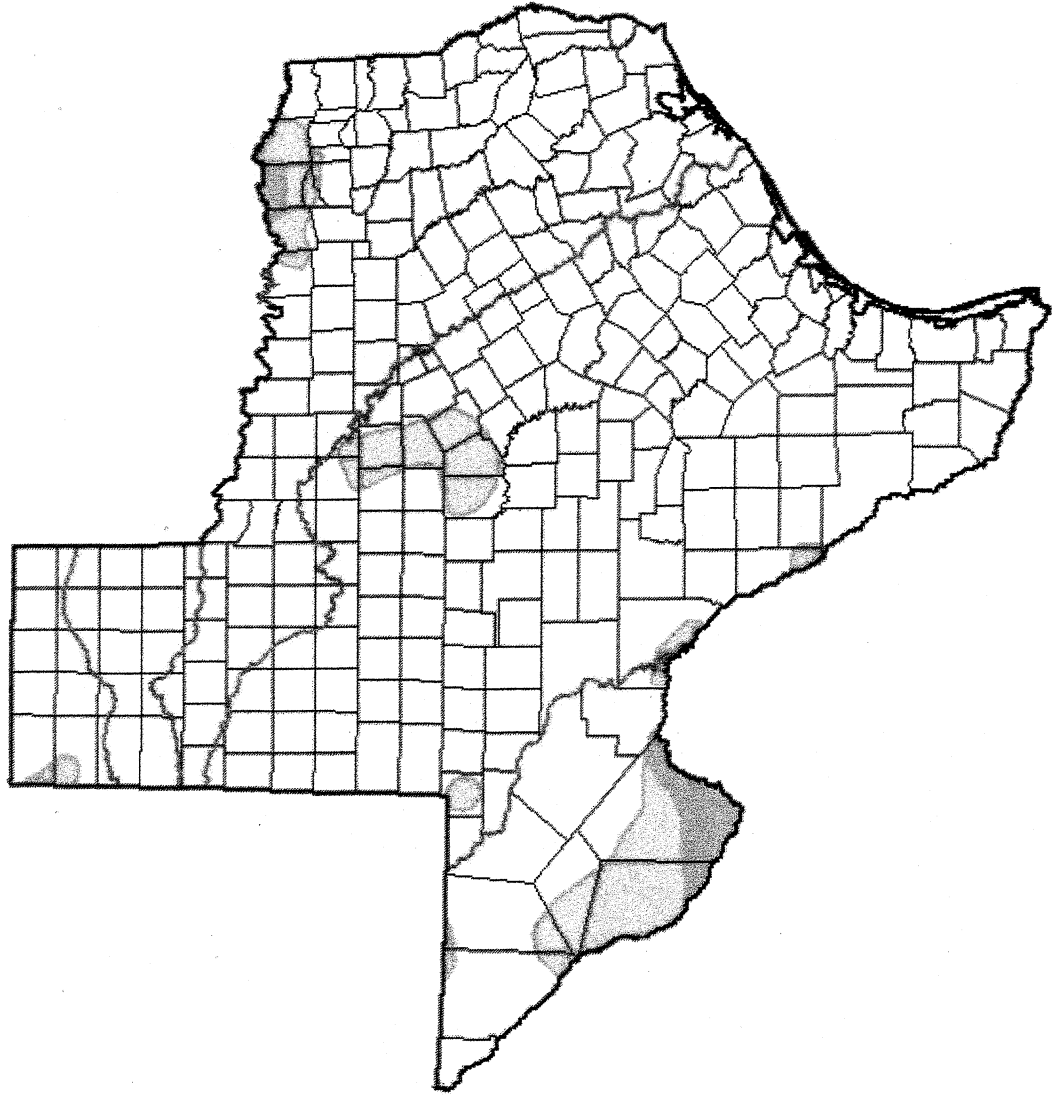


U.S. Drought Monitor Texas

August 10, 2021
 (Released Thursday, Aug. 12, 2021)
 Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	92.04	7.96	1.35	0.00	0.00	0.00
Last Week 08-03-2021	94.72	5.28	1.10	0.00	0.00	0.00
3 Months Ago 05-11-2021	34.32	65.68	44.28	27.69	16.88	7.85
Start of Calendar Year 12-29-2020	8.80	91.20	81.11	50.33	30.09	13.03
Start of Water Year 09-23-2020	57.35	42.65	31.96	20.91	12.02	3.29
One Year Ago 08-11-2020	34.16	65.84	39.93	17.68	4.88	0.00



Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

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Author:
 Richard Tinker
 CPC/NOAA/NWS/NCEP

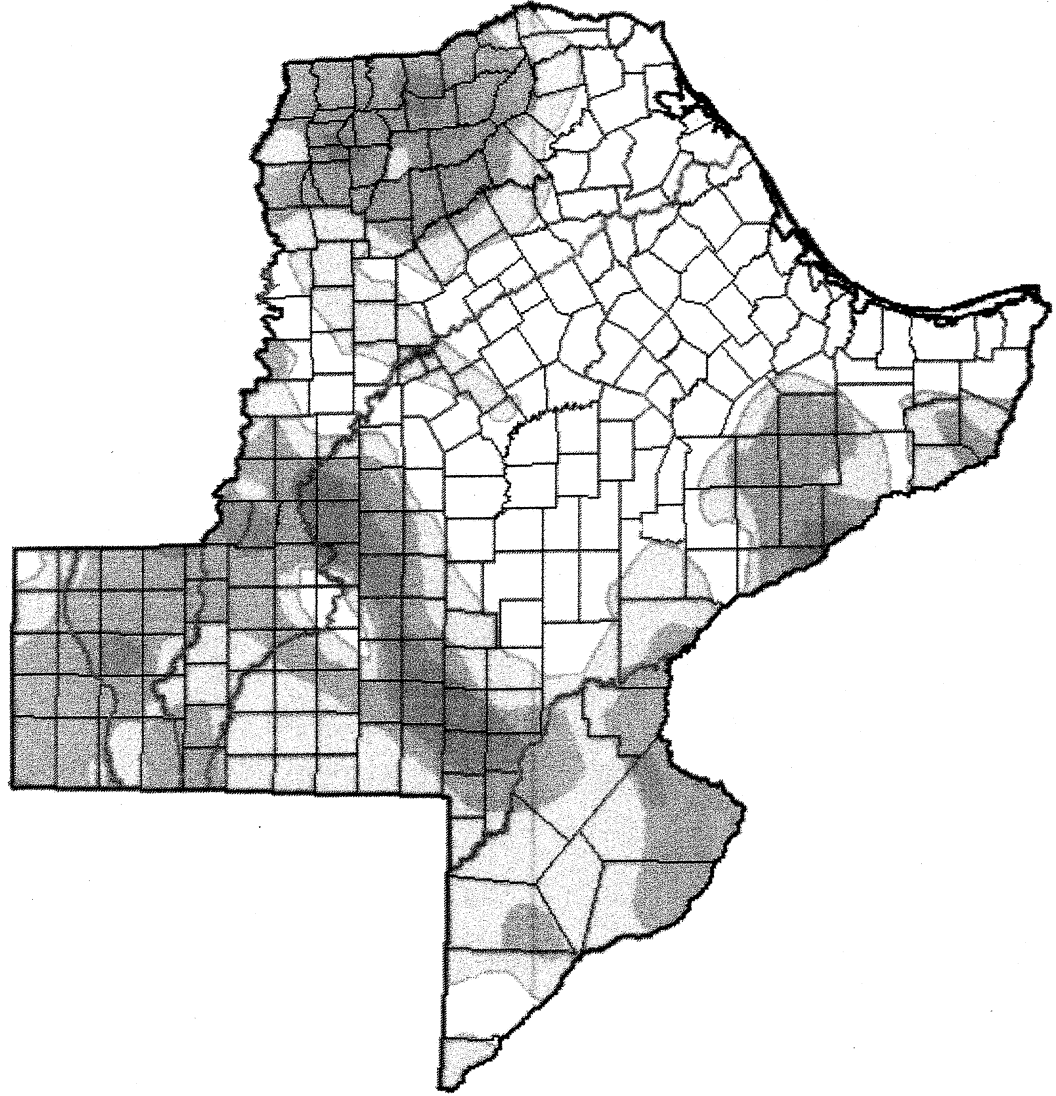


U.S. Drought Monitor Texas

November 9, 2021
 (Released Thursday, Nov. 11, 2021)
 Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	38.58	61.42	32.22	5.62	0.00	0.00
Last Week 11-02-2021	38.20	61.80	32.90	6.44	0.00	0.00
3 Months Ago 08-10-2021	92.04	7.96	1.35	0.00	0.00	0.00
Start of Calendar Year 12-29-2020	8.80	91.20	81.11	50.33	30.09	13.03
Start of Water Year 09-28-2021	45.57	54.43	7.26	0.27	0.00	0.00
One Year Ago 11-10-2020	15.71	84.29	56.86	30.67	19.33	8.61

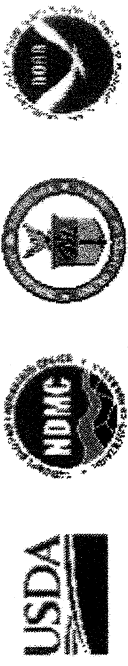


Intensity

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
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Author
 Curtis Riganti
 National Drought Mitigation Center



Appendix E

Aquifers

Aquifers are geological formations that can store, transmit and yield water to a well or spring. There are two basic types of aquifers: confined and unconfined. The two kinds of aquifers respond differently to pumping.

A *confined aquifer*, also called an artesian aquifer, is basically a layer of water that is under pressure and is held between two layers of clay. The recharge area is limited to the land surface where the aquifer's geologic material is exposed to the land surface.

When a well is drilled into a confined aquifer, the water that is under pressure in it will rise in the well casing and may reach the surface. Wells with water flowing to the surface are often called free-flowing artesian wells. In most cases, wells drilled in artesian aquifers do not flow.

An *unconfined aquifer* is a layer of water that has a confining layer on the bottom and a layer of permeable soil above it. The recharge area is all of the land area above the unconfined aquifer. The water level in wells drilled into an unconfined aquifer will be at the same elevation as the water table. The water table will rise or fall in response to recharge and pumping.

Texas aquifers are remarkably diverse in geologic structure, the amount of water they store, the amount of the water taken from them that can be replenished and the rate at which water moves through the aquifer.

The Ogallala Aquifer, for example, is a huge aquifer underlying most of the Texas High Plains. It receives little, if any, natural recharge from rain or snow. More water is pumped from the Ogallala Aquifer than from all the other Texas aquifers combined.

In contrast, the Edwards Aquifer is highly rechargeable. It can quickly be replenished by rainfall. However, if much water is pumped from it, especially during drought, the water level in the aquifer can drop quickly.

According the Texas Water Development Board, nine aquifers supply about 97 percent of the groundwater used in Texas. The major aquifers have different annual pumping rates, recharge rates and projected safe annual availability rates. The other 3 percent is drawn from 20 minor aquifers.

Some aquifers are being mined; that is, more water is pumped from the aquifer than will be replaced by the natural recharge process. Such mining can have long-term economic, environmental and social implications for the regions served by the aquifers. For example, in some areas of the Ogallala, farms have changed from irrigation to dryland farming because the remaining water is not a reliable supply and because it not economical to use as an irrigation water source.

For more information on aquifers and groundwater in general, you may contact the Kenedy County Groundwater Conservation District at 361-294-5336 in Sarita, TX or the USDA-Natural Resources Conservation Service office at 361-592-0309 in Kingsville, TX.

Appendix F

MAJOR RIVERS

A Water Education
Program for Texas



Name: _____

Appendix G

**Water Level Measurements
Kenedy GCD**

Prepared by Andy Garza

8/5/2021

GCD #	Name	Property	Lat.	Long.	Depth(-ft)	Prev/Avg(-ft)	AGC (ft)	Date
519	Don Roberto	KR-Laureles	27.520383	-97.54233	42	41.1/43.9	1	8/4/2021
576	Ratones #2	"	27.50755	-97.462617	35.8	34.1/38	1.4	"
587	Telefon	"	27.4685	-97.6971	98.9	99.3/102.4	1.3	"
528	Las Flacas	"	27.4055	-97.692383	58.4	58/60.8	1.8	"
532	Guayacan	"	27.4575	-97.604667	64.7	64.7/66	0.8	"
583	Sordo	"	27.41885	-97.391617	48.3	48.7/48.4	1.3	"
89	Víboras	"	27.34355	-97.578283	28	27.6/28.5	1.2	"
34	Cola Blanca	KR-SG	27.592233	-97.882333	195.1	193/196.1	1.3	8/2/2021
39	Potero Chiquita	"	27.5736	-97.9389	196	195/198.1	1	"
26	Puertos	"	27.537183	-97.920667	175	175/175.9	0.9	"
52	Calera	"	27.50705	-97.952383	202.7	204/207.4	0.5	"
93	Laguna Larga	"	27.30935	-97.986333	104.9	106/107.5	1.8	"
98	Alta d/I Pita	"	27.317383	-97.90315	96.9	98.5/98.6	0.8	"
118	Tio Luis	"	27.258383	-97.863183	70.6	68/71.4	0.9	"
2	M-95	"	27.6335	-98.056683	171.7	173/171.3	1	"
46	R3	"	27.5346	-98.0977	158	159/158.2	1.3	"
90	Las Comas	"	27.339083	-98.017685	121.6	120/122.2	0.8	"
202	Capitan	LMBI	27.234533	-97.925267	70.4	71.5/71.8	1	7/22/2021
167	Monte Negro	"	27.162117	-97.971483	59.2	60.5/62.9	2	"
135	S. Vargas Cr.	"	26.779017	-98.190933	46.2	46.3/45.3	1.3	"
1514	Sta. Anita HQ.	"	26.6931	-98.204	64	64.4/63.8	1	"

**Water Level Measurements
Kenedy Co. GCD**

Prepared by Andy Garza

8/9/2021

GCD #	Name	Property	Lat.	Long.	Depth (-ft)	Prev/Avg(-ft)	AGC (ft)	Date
424	#8 Mill	KR-Encino	27.06105	-98.13617	41	37/37.3	1.4	7/27/2021
435	Escondido	"	26.9941	-98.13351	75	95.3/82.4	1.9	"
436	Flores	"	26.92538	-98.06162	50.3	50.3/49	0.8	"
460	Patron	"	26.98413	-97.9834	25.9	31.3/26.4	1.5	"
432	Republicano	Santa Fe Rch.	26.7971	-97.9718	30.2	29.3/29.2	1.5	7/27/2021
1022	Palomas	"	26.824883	-98.1468	45.4	44.8/45	1.3	"
984	Caesar	"	26.831283	-97.9415	18.2	19.2/16.6	2.4	"
1178	Marcellina	Rch. Alegre			4.8	4.8/4.8	1.6	3/5/2021
309	La Curva	KR-Norias	26.752167	-97.768967	14.3	14.8/13.3	1.8	7/21/2021
316	Euvence	"	26.78555	-97.823067	6.5	6.4/5.3	1.8	"
320	Frijol	"	26.7478	-97.5563	10.9	11.4/15	1	"
319	La Fortuna	"	26.8349	-97.7228	0	0/0	1.3	"
345	Medio Million	"	26.6816	-97.9312	32.1	30.9/29.3	1.3	"
330	Horacio	"	26.6754	-97.57925	14.5	17.5/17.3	1.3	"
332	Hurraco	"	26.637233	-97.477783	12.1	13.3/12.8	3.8	"
1428	Mollie	Armstrong Rch	26.9596	-97.7362	12.6	12.4/12.1	2.4	7/22/2021
791	La Maleta	"	26.95339	-97.84195	14.9	13/12.3	2.3	"
1260	Armstrong#1	"	26.955883	-97.7973	17.3	17.2/16.4	1.9	"
939	Checkpoint	Border Patrol	27.017117	-97.793833	30.2	30/29.9	2.3	7/22/2021

Appendix H

**Well Hydrostatic Levels
Kenedy County GCD**

8/06/21 Prepared by: Andy Garza

	Name	S/11	W/12	S/12	W/13	S/13	W/14	S/14	W/15	S/15	W/16	S/16	W/17	S/17	W/18	S/18	W/19	S/19	W/20	S/20	W/21	S/21	Av.
519(1)	Don Rob.	40.9	42.9	40.8	41.4	48.0	47.5	43.6	42.6	43.5	47.9	48.0	45.0	41.5	43.5	46.2	45.3	46.9	39.4	43.0	41.1	42.0	43.0
576(1)	Rats #2	38.5	34	41.6	34	43.9	41.7	41.8	34.7	35.6	42.5	34.4	40.6	34.2	37.3	40.3	38.1	39.0	37.6	38	34.1	35.9	38
587(1)	Telefon	105	102.2	103.8	104.7	107.3	106.2	108.2	105.3	101.9	107.7	105	102	105	101.6	101	84.8	98.9	102.8	100	99.3	98.9	102.0
528(1)	Las Fla.	60.7	63	63.6	64	68.2	64.4	65.2	58.1	60.6	59.8	60.1	58.2	60.8	58.6	58.6	59.2	61.5	58.5	58	58	58.4	60.
532(1)	Guay.	73.2	63	65.1	64.8	67.9	66.1	67.9	67.2	65.7	64.6	65.4	68.5	68.5	64.2	66	63.4	66.3	63.6	65	64.7	64.2	66.
583(1)	Sordo	62.5	62.7	62.5	40.5	62.4	62.9	62.9	22.5	22.5	49.7		43.7		42.1		60.1		20.6		48.7		48.
89(1)	Vibo.	27.1	27.8	28.7	27.8	30.7	28.7	30.4	28.6	28.9	26.7	28.6	28.8	29.3	27.5	29.6	29.4	28.9	28.2	28	27.6	28.0	28.
34(5)	Cola Bla.	203	201.7	207	197.7	211.2	194.3	200.7	196.2	188.5	188.9	193	192	195	194.4	195	192.2	188.3	195.7	197	193	195	196
39(5)	Pot Chiq.																						
26(5)	Puertos	174	175.3	178	182	184.6	177.8	177.2	176.2	172.6	171.5	173	173	176	176.0	178	173	173.2	196.3	201	195	196.0	198
52(2)	Calera	218	206.2	224.3	224.9	221.6	209	215.1	207.2	200.1	200.8	206	203	197	202.2	209	197.2	201.0	201.7	204	204	202.7	207
93(5)	Lag. Lar.	110	107.2	108.8	111.1	111.7	111.1	111.3	112.4	104.3	104.5	106	105	109	105.4	108	104.1	103.7	105.7	108	106	104.9	107
98(2)	Al.d/I Pita	96.8	102.7	102.1	100.2	106.5	106	105.4	97.7	94.3	93.9	94.6	94.1	95.3	97.7	98.7	94.8	97.4	96.5	101	98.5	96.9	98.
118(2)	Tio Luis	66.6	74.7	77.1	72.9	76.8	75.9	76.8	71.8	69.2	67.9	68.6	67.7	71.3	70.5	71.4	68.9	72.1	68.8	73	68	70.6	71.
2(5)	M-95	167	173.6	169.6	169.9	171.5	174	173.6	170.2	167.7	173.4	171	169	173	173.4	172	169.7	171.0	171.0	173	173	171.7	17
46(5)	R3							155.2	153.6	157.7	155.9	156	160	158	161.2	160	158.7	158.1	161.9	160	159	158.0	15
90(5)	L. Comas	117	119.6	123.6	114.4	125.6	130.9	124.6	122.6	117.2	117.4	118	127	126	130.7	128	120.8	120.4	119.9	121	120	121.6	12
202(2)	Capitan	74	74.4	75.6	73.8	78	72.8	78.1	71.9	68.3	69.2	71.6	67.3	68.5	68.6	72.2	68.7	70.9	71.2	70	71.5	70.4	71.
167(2)	Mo Neg	62.9	63.8	62.6	65.8	71.9	63.1	64.8	62.2	61.7	58.9	64.6	59.1	61.6	63.3	62.5	62.1	63.1	61.2	65	60.5	59.2	62.
135(3)	S Var	45.7	44	44.2	45.7	47.1	44.4	47.5	44.4	42.3	41.7	46.7	44.5	47.3	45.1	47.7	43	45.1	46.0	47	46.3	46.2	45.
1514	S.Anita																		63.3		64.4		
424(3)	#8 Mill	29.4	30.9	36.3	34.3	38.7	42.3	36.9	38.7	38.8	45	37.8	36.4	37	37.3	38.4	34.9	37.1	37.1	37	37	41.0	37.
435(3)	Escon.	71.1	75.2	87	75.2	81.1	76.9	89.2	89.5	88	86.2	72.5	76.8	79	76.0	89.9	87.9	89.2	82.6	86	95.3	75.0	82.
436(3)	Flores	44.5	44.9	50.3	44.9	51	52.3	52.3	48.4	48.7	51.7	47.5	48.4	49.6	50.3	51.6	47.4	45.4	48.9	49	50.4	50.3	49.0
460(3)	Patron	22.2	22.3	26.4	25.1	25.3	26.5	28.2	25.7	28.2	26.5	24.8	25.2	30.1	26.4	26.4	25.8	26.9	27.7	28	31.3	25.9	26.

Well #	Name	S/11	W/12	S/12	W/13	S/13	W/14	S/14	W/15	S/15	W/16	S/16	W/17	S/17	W/18	S/18	W/19	S/19	W/20	S/20	W/21	S/21	Avg.
1025(3)	Repub.												27.7	28.8	28.5	29.4	29.9	28.8	29.7	30	29.3	30.2	29.2
1022(3)	Palomas	53.5	40.7	45.3	41.5	41.6	39.9	57.5	39.3	40.3	37.2	48.3	42.2	52.9	41	47.8	39	51.5	43.9	52	44.8	45.4	45
984(3)	Caesar	13.8	14.4	15.1	15.6	16	15.9	16.6	16.1	15.4	15.4	15.2	16.1	17.6	17.5	18.9	16	18.5	18.2	19	19.2	18.2	16.6
1178(4)	Marcell.											3.9	5.7	5.6	4.2		4		5.5		4.8	4.8	4.8
309(4)	L. Curva	12.1	12.1	12.7	12.1	13.4	15.3	12.8	12.8	14.2	11.1	12.9	12.2	13	12.9	14.4	13.8	14.5	13.6	14	14.8	14.3	13.3
316(3)	Euvence	4.2	4.5	4.3	4.5	6.1	5.5	5.7	5.7	5.7	3.8	5.3	4.4	4.9	6.1	4.3	5.2	6.9	5.6	5.1	6.4	6.5	5.3
320(4)	Frijol										16.4	19.6	26	12.9	10.2	11.3	17.6	18.1	14.3	11	11.4	10.9	15.0
319(4)	La Fortu.														0(+2)	0(+2)	0(+2)	0(+2)	0(+2)	0(+2)	0(+2)	0(+2)	0
345(3)	Me Mill					29.4	29.1	30.3	28.6	27.6	26.6	27.2	29.6	30.4	29.9	29.9	28.9	28.5	28.1	30	30.9	32.1	29.3
330(4)	Horacio	16.7	15	17.7	18.5	19.3	19.9	17.8	17.9	22.3	13.7	19	13.2	15.1	16.9	17.5	17.1	19.1	17.1	17	17.5	14.5	17.3
332(4)	Hurraco	15.2	11.3	12.5	11.3	13	12.8	13.3	13.7	11.6	10.8	12.4	12.6	12.6	13.9	13.8	13.4	13.2	12.4	14	13.3	12.1	12.8
791(3)	La Maleta	11.5	11.5	10.9	11.3	11.7	12.6	12.3	11.7	11.8	12.2	11.9	12.1	12.7	12.5	12.7	12.5	12.9	12.0	14	13	14.9	12.3
1428(3)	Mollie								10.8	12.2	12.2	13.8	12.6	11.6	12	11.8	11.6	11.8	12.5	12	12.4	12.6	12.1
1260(3)	Arm 1	14.8	14.8	15.3	16.1	16.7	16.1	16.9	16.2	15.9	16	16.3	16.4	16.6	16.3	16.9	16.4	17.1	17.4	17	17.2	17.3	16.4
939(4)	Checkpt.	28.9	27.7	28.6	29.3	31.2	29.6	29.9	29.5	29.5	29.1	30	29.3	33.1	30	30.6	29.7	30.8	30.2	30	30	30.2	29.9
649(3)	Golon.	19.8	19.9	18.7	20.2	20.5	20.7	22.2	20.3	20.4	22.4	22.1	20.6	21.9	21.5	21.8	21.5	21.8	22.8	22	21.8	20.4	21.1
660(3)	La Drena	33.6	33.6	34.1	35.9	35.7	36.2	36.6	34.1	33.2	34.6	35.3	34.4	35.9	36.5	36	35.5	35.0	35.6	36	35.3	35.4	35.1
681(4)	Maranita	15.4	15.4	13.1	13.6	14.1	14.7	16.5	15.7	13.9	14.7	14.7	20.1	18.2	14.2	14.9	14.3	14.7	14.7	15	15.4	14.4	15.1
782(4)	Ygriega							15.3	9.2	13.1	16.3	4.9	5.1	5.1	9	5.6	5.1	6.2	6.1	6.1	6.4	6.6	8.0
843(1)	Palomas	43.9	44.2	45	46.8	49.1	46.1	44.1	47.2	44.2	46.5	45.7	47.1	46.5	46.5	46.3	43.4	46.7	46.1	47	47.7	47.8	46.1
855(1)	El Paistle	40	64.2	53.4	49.6	58.9	59.6	63	62.8	39.7	61.4	61.3	62	46	61.3	41.2	41.8	41.1	41.7	42	60	44.1	52.2
891(3)	Mifflin	36.5	36.8	39.5	35.6	35.4	34.2	35.2	34.2	33.4	32.9	34	34.5	34.4	33.9	34.3	35	34.3	34.8	35	34.7	34.6	34.9
842(1)	Carricitos	13.2	13.7	13.5	15.5	15.7	15.3	17.4	14.9	15.1	15	16	16.9	16.7	15	16.5	16	15.4	16.4	15	15.4	18.2	15.6
863(2)	La Perla	61.5	59.5	58.3	62.6	66.3	61.4	64.7	60.4	58.5	56.6	60.5	58.2	62	59	60.3	56.5	58.6	58.8	61	60.2	58.8	60.2
841(1)	Mes. Pen	32	30.7	30.6	30.6	31.9	32.6	34.7	33.7	32.1	32.3	31.9	33.8	33.7	33.7	32.1	34	32.7	33.0	33	33.4	34.1	32.7

Well#	Name	S/11	W/12	S/12	W/13	S/13	W/14	S/14	W/15	S/15	W/16	S/16	W/17	S/17	W/18	S/18	W/19	S/19	W/20	S/20	W/21	S/21	Avg
1456(1)	Sarita GP										43.4	40.3	45.5	42.3	39.6	42.5	39.9	41.0	41.3	43	42.2	41.2	41.9
1384(2)	Croc. HQ				67.1	68.9	66.3	67	65.8	65.8	63.7	64.6	66.6	64.5	60.3	65.9	65.1	65.5	65.1	66	66.3	64.9	65.5

S=Summer DFC: average loss of 0.58 ft. from winter 2019 to winter 2020; average loss of 0.54 ft. from winter 2020 to winter 2021.

W=Winter 9 wells being monitored

Appendix I

**Kenedy County Groundwater Conservation District
Adopted 2021 Budget
September 16, 2020**

Income:

Ad Valorem Taxes (\$0.0128/\$100)	\$205,015.00
Interest Income	3,600.00
2020 Carryover	15,281.00
TOTAL INCOME:	\$223,896.00

Expenditures:

Professional Services:

Manager	\$57,500.00
Audit	8,000.00
Appraisal District Allocations	7,500.00
Tax Office Commission	8,000.00
Administrative Assistant	30,000.00
Legal	30,000.00

Total Professional Services: **\$141,000.00**

Operating Expenses:

Accounting	1,100.00
Bank Charges	200.00
Computer/Software	2,500.00
Contingency	7,446.00
Management Plan/Rule Amendments	12,000.00
Directors' Continuing Education	1,000.00
Directors' Travel	2,000.00
Dues & Subscriptions	1,500.00
Election Costs	1,500.00
Equipment	3,000.00
Joint Planning/GMA-16	3,500.00
Insurance - Liability	3,000.00
Insurance - Worker's Comp	350.00
Manager - Health Insurance	8,000.00
Manager - Travel & Education	4,000.00
Manager- Mileage	6,000.00
Manager - Payroll Taxes	6,000.00
Maps & Records	2,500.00
Office Supplies	3,000.00
Office Telephone	800.00
Postage	500.00
Public Education Brochure	1,000.00
Public Notices	2,000.00
Surety Bonds	1,000.00
Water Test/Lab	2,500.00
Website/Database	2,500.00

Well Monitoring

4,000.00

Total Operational Expenses:

\$82,896.00

TOTAL EXPENSES:

\$223,896.00