

SANDY LAND UNDERGROUND WATER CONSERVATION DISTRICT

**Annual Report
January 1, 2023 through December 31, 2023**



**Sandy Land Underground Water Conservation District
1012 Ave. F
P.O. Box 130
Plains, Texas 79355
(806)456-2155**

SANDY LAND UNDERGROUND WATER CONSERVATION DISTRICT

TABLE OF CONTENTS

BOARD OF DIRECTORS AND STAFF	3
DISTRICT CREATION	5
2023 ANNUAL REPORT OVERVIEW	7
GOALS, MANAGEMENT OBJECTIVES AND PERFORMANCE STANDARDS	11
IRRIGATION EFFICIENCY TESTS, WATER LEVEL MONITORING NETWORK, DEPLETION PROGRAM	19
WATER QUALITY NETWORK	26
WELL PERMITTING AND REGISTRATION	32
AGRICULTURAL LOAN PROGRAM	35
SCHOLARSHIP AND EDUCATION PROGRAM	38

**SANDY LAND UNDERGROUND
WATER CONSERVATION DISTRICT**

BOARD OF DIRECTORS AND STAFF

SANDY LAND UNDERGROUND WATER CONSERVATION DISTRICT

BOARD OF DIRECTORS

Ross Hilburn, President
Linda Powell, Vice-President
Tracy Welch, Secretary
Rickey Bearden, Director
Stanley Ashburn, Director

DISTRICT STAFF

Amber Blount, Manager
Gale McDonnell, Office Manager
Michelle Cooper, Education Coordinator

DISTRICT OFFICE

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**SANDY LAND UNDERGROUND
WATER CONSERVATION DISTRICT**

DISTRICT CREATION

DISTRICT CREATION

Sandy Land Underground Water Conservation District was created by the 71st Legislature of the State of Texas under Article 16, Section 59 of the Constitution of Texas Statutes.

On November 7, 1989, a special election was held in Yoakum County in order to confirm the establishment of the district as provided by Senate Bill No 1777, agree to a levy of a maintenance tax at a rate not to exceed 2½ cents per \$100 valuation, and to elect the initial board members for the district. A total of 764 votes were cast with 388 voting “for” and 177 voting “against” the district establishment and levy. David Turnbough, L.J. Sanders, Jr., R. E. Bearden, Brad Palmer and Don Parrish were elected as the initial board members.

Gary L. Walker was selected as the first Manager of Sandy Land Underground Water Conservation District in January 1990.

Kathy Jones was employed by the District in February 1990 to serve as District Secretary and remained so until her resignation in October 2001.

Board members adopted the proposed Rules and Regulations for Sandy Land Underground Water Conservation District on December 12, 1990. The initial tax rate of the District was set at \$.007 per \$100 valuation at a tax hearing held on August 26, 1991.

David Turnbough was elected President of the Board in 1990. He served in that capacity for the entire time that he was a Sandy Land UWCD Director. David and his wife, Vi, moved to Lubbock in the summer of 2006 necessitating his resignation from the Board of Directors.

R. E. Bearden served on the Board of Directors continuously for 18 years. Mr. Bearden’s retirement became effective September 2007.

Amber Blount was named Manager of Sandy Land Underground Water Conservation District in March 2015 after the retirement of Gary L. Walker on January 31, 2015

Dennis G. Harrison resigned from the board in December of 2017. He served continuously on the board for almost 25 years.

**SANDY LAND UNDERGROUND
WATER CONSERVATION DISTRICT**

2023 ANNUAL REPORT OVERVIEW

2023 ANNUAL REPORT OVERVIEW

Sandy Land UWCD is, today, an active, functional enterprise that had its beginning in 1989 with the creation of the Water District. The common thread that runs through this program is that of water conservation. We hope this report will detail some challenges and efforts of water conservation this year.

Recurring Monthly

- Board of Directors' meetings 2nd Wednesday of each month.
- Rain gauge readings taken in 26 locations throughout the county.
- Well Depth Measurements performed annually.
- District Manager Blount continues her role and responsibilities as TAGD President August 2022 - August 2023 and Legislative and Executive Committee member.
- Ms. Blount engages in numerous meetings and phone conferences for TAGD Executive Committee Sessions, Conference Planning, Finance Committee, Legislative Sessions, Summit, TWCA Groundwater Committee, GMA2 and Region O.
- Office Manager, Gale McDonnell, continues her role and responsibilities to meet the requirements of various essential elements necessary for efficient daily office operations.
- Manager Blount efficiently manages all well permits, locates, and checks all new wells for necessary reporting to the district and board for approval.
- Ms. McDonnell performs all necessary procedures for securing new ag loans, maintaining current loans, insurance, invoicing, UCCs, and completing payments and reporting to TWDB.
- Amber Blount performs numerous Flow Tests as requested by landowners of Yoakum County throughout the year.
- Raymond Brady and Amy Bush continue contracted hydrological work for the water district including decline maps for use in IRS depletion program and timely updates to saturated thickness maps.
- Michelle Cooper, Education Coordinator, continues work with the region's water districts.

January

- Annual well depth measurements taken for Monitor Well Network.
- Sandy Land Board and staff enjoyed Christmas dinner at Texas Tech Club in Lubbock.
- Sandy Land UWCD proposed and adopted amendments to the District Rules and By-Laws became effective January 1, 2023.
- Board completed processing Education Chevy Tahoe bids and awarded vehicle to highest bidder.
- Sandy Land UWCD opened the first day to file for a place on the ballot January 18, 2023 for Board Of Directors' Election.
- Vice-president Linda Powell attended the TAWC Annual Water College in Lubbock.
- TAGD meeting scheduled in Austin was cancelled due to inclement weather.
- Gale McDonnell mailed loan payment letters to borrowers in our Water Conservation Agricultural Loan Program.
- Depletion letters mailed to eligible county residents.

February

- Loan payments on existing loans due and 100% collected from producers on February 15.
- Board of Directors reviewed and approved the Sandy Land UWCD 2022 Annual Report.
- Ms. Powell presented a review of the TAWC Annual Water College conference to the Board.
- Manager Blount attended Commissioner Court meetings to discuss proposed subdivision.
- Sandy Land UWCD observed the last day to file for a place on the ballot February 17 with no applications for a place on the Board of Directors.
- Ms. Blount participated online in various TAGD meetings and TAGD Bootcamp.

March

- The Board reviewed and approved various election documents.
- Texas Tech Endowment Graduate students gave their presentations to the Board via Zoom.
- Amber Blount attended TAGD meeting in Pflugerville 3/9 – 3/10.
- Ryan King of Terry and King CPAs PC performed 2022 in-house tax audit.

April

- Amber Blount attended Women In Ag in Brownfield.
- Ryan King of Terry and King CPAs presented the 2022 Financial Audit.
- Board approved SLUWCD 2022 Financial Audit.
- Ms. Blount attended the Yoakum County Soil and Water Conservation breakfast.

May

- Board and staff reviewed 2023 estimated tax values.
- Ms. McDonnell awarded the certificates of election and administered the Oaths of Office and Statements of Officers to Rickey Bearden, Linda Powell, and Tracy Welch. Officer election for Board of Directors was finalized.
- TWDB approved the District's \$575,000 Ag Loan.
- Rainwater Harvesting Workshop was held at PSB event center.
- Office personnel performed QuickBooks migration from Desktop to QB Online.
- Mallory Bunch begins as summer contract labor.

June

- Water quality testing begins for Sandy Land UWCD's Water Quality Network.
- Board of Directors' meeting cancelled due to lack of quorum.
- Manager Blount attended TAGD meeting in Pflugerville 6/6 – 6/7.
- Amber Blount attended TWCA Conference in the Woodlands.
- Ms. Blount attended Region O meeting in Lubbock.

July

- Review and Discussion concerning SLUWCD 2024 budget proposal.
- Completed Water Quality Testing for wells in Sandy Land UWCD's Water Quality Network.
- Amber Blount attended Education Co-op meeting in Brownfield.

August

- The Board of Directors adopted and approved the SLUWCD 2024 budget.
- Andie Saxon, Miranda Jordan, and Jesse Calk presented their Water Ambassador Summer Leadership Academies reports.
- Manager Blount attended the Region O meeting in Lubbock
- Ms. Blount and Ms. Cooper attended TAGD Groundwater Summit in San Antonio. Manager Blount successfully completed her term as TAGD President.
- Jake Wood presented Amber Blount, Gale McDonnell, and Michelle Cooper retirement updates – Wood Financial Review.
- Mallory Bunch completes summer contract labor.

September

- Public Hearing to set 2023 Tax rate at .009474/\$100.
- Manager Blount presented the Texas Groundwater Summit report.

- Board reviewed and approved the Sandy Land UWCD policy, Investment policy and Professional Services.
- Directors approved list of financial institutions.

October

- Directors viewed a presentation by meteorologist Jennifer Puryear w/ RMBJ Geo Inc. on Weather Outlook via Zoom.
- Amber Blount attended GMA 2 meeting in Lamesa.
- Manager Blount attended the South Plains UWCD board meeting.
- Office staff joined the TAGD/TWCARMF Online Webinar.
- Amber Blount and Michelle Cooper presented at the Plains ISD Career Day.

November

- Directors approved and adopted temporary requirements implementing new laws approved by the 88th Texas Legislature and clarifying well spacing rules.
- Manager Blount attended Region O meeting in Lubbock.
- Amber Blount participated in the TAGD/TWDB Well Report Webinar
- TAGD Executive Director resigned.
- Ms. Blount submitted Management Plan to TWDB for preview.

December

- Christmas Party set for January 12, 2024 at Double Nickel in Lubbock.
- End of year reporting begins for Sandy Land.

**SANDY LAND UNDERGROUND
WATER CONSERVATION DISTRICT**

**GOALS, MANAGEMENT OBJECTIVES AND
PERFORMANCE STANDARDS**

Goal 1.0 Provide for the most efficient use of groundwater within the District.

Management Objective

- (a) Annually conduct irrigation well efficiency tests for 100 percent of requests within 10 days of the property owner request.

Performance Standard

- (a1) Percentage of irrigation well efficiency test requests conducted annually within ten (10) days of request.

Current Performance Status

In 2023, property owners requested well efficiency tests from the District for 6 wells & pivots. One hundred percent (100%) of these wells/pivots were tested within 10 days.

Management Objective

- (b) There are currently 87 water wells in the District's water level monitoring network. The objective is to annually measure water levels in a majority of the district's monitor well network and replace wells as needed.

Performance Standard

- (b1) Percentage of monitor wells in monitor well network in which water levels were measured.

Current Performance Status

In 2023, 74 of the wells in the monitor well network (85%) were measured or attempted to be measured. *(Wells that have been dry for consecutive years were either removed or replaced in 2021)*

Goal 2.0 Control and prevent waste of groundwater within the District

Management Objective

- (a) Each year, the District will sample the water quality in at least one selected well(s) in order to monitor water quality trends and prevent the waste of groundwater by contamination. The District will also sample for water quality analysis on 100 percent of other wells which the owner requests to be sampled each year.

Performance Standard

- (a1) Number of wells sampled for water quality analysis by the District to monitor water quality trends, each year.

Current Performance Status

Out of 97 wells in the District's water quality network, **76** wells were sampled 2023 to monitor water quality trends and prevent the waste of groundwater by contamination.

Performance Standard

- (a2) Percent of wells sampled for water quality analysis by the District upon request each year.

Current Performance Status

In 2023, the District performed water quality and bacteria analysis tests on 100 percent of the **28** requested samples for the residents of Sandy Land Underground Water Conservation District and for others outside the district.

Management Objective

- (b) Each year, the district will enforce district spacing and production limitation rules requiring the permitting of all new wells to prevent the waste of groundwater. The District will issue temporary permits for 100 percent of the application requests that meet the District's rigorous rules for spacing within 30 days of the receipt of the application.

Performance Standard

- (b1) Number of temporary permits issued by the District for new wells in compliance with spacing and production limits each year.

Current Performance Status

Sandy Land Underground Water Conservation District has issued **249** well permit applications for fiscal year 2023.

Performance standard

- (b2) Percent of temporary permits issued to applications that meet the District's rigorous rules for spacing within 30 days of receipt of application.

Current Performance Status

Sandy Land Underground Water Conservation District has issued 100% of permits within 30 days of receipt of application this year to date.

Management Objective

- (c) The District will publish articles on the district's activities and water conservation to encourage a reduction of water use. This information may be made available by direct mail, website or local newspaper.

Performance Standard

- (c1) Number of articles on water conservation presented by the District each year.

Current Performance Status

In 2023, a total of 5 articles were given to the newspapers of the county to publish, 91 articles or posts referencing conservation were placed on social media, and the website contains information for any interested parties.

Goal 3.0 Controlling and Preventing Subsidence

The goal of controlling and preventing subsidence is not applicable to the District.

Goal 4.0 Addressing Conjunctive Surface Water Management Issues

The goal for addressing conjunctive surface water management issues is not applicable to the District due to the absence of any surface water features and hence, any surface water management issues.

Goal 5.0 Addressing Natural Resource Issues

The goal for addressing natural resource issues that impact the use and availability of groundwater or are impacted by the use of groundwater within the District is not applicable.

Goal 6.0 Addressing Drought Conditions

As previously stated in the Drought Contingency Plan section on page 9 (of the District's Management Plan), the District is in a constant state of drought and recognizes the importance of rainfall.

Management Objective

- (a) The District will maintain a Rain Gauge Network across the county.

Performance Standard

- (a1) Maintain a network of rain gauges in the District. Publish rainfall data on the District's web site as collected.

Current Performance Status

District staff collected rainfall data on the district's 26 rain gauges and published on the district website.

Goal 7.0 Addressing Conservation of Groundwater within the District

Management Objective

- (a) As long as funding is available from TWDB, the District will participate in the TWDB Agricultural Conservation Loan program as a lender district and make loans available to all qualified applicants for the purchase of water conserving irrigation apparatus, up to the maximum amount of the loan commitment made to the District by TWDB.

Performance Standard

- (a1) Number of Agricultural Conservation loan applications received by the District from qualified applicants, each year.

Current Performance Status

For the fiscal year 2023, none (0) Agricultural Conservation loan applications were received from qualified applicants.

Performance Standard

- (a2) Number of Agricultural Conservation loans made by the District to qualified applicant, each year.

Current Performance Status

For the fiscal year 2023, none (0) Agricultural Conservation loans were made to qualified applicants.

Management Objective

- (b) Each year, the district will award scholarships to at least four (4) high school students graduating from a high school within the District to facilitate study of water conservation topics.

Performance Standard

- (b1) Number of scholarships awarded to students graduating high school within the District to facilitate study of water conservation topics, each year.

Current Performance Status

In May of 2023, a total of four (4) scholarships were awarded to seniors within Yoakum County.

Management Objective

- (c) Each year, the District will provide Educational material to specific teachers at each school within the District.

Performance Standard

- (c1) Number of teacher/campuses who were provided educational materials

Current Performance Status

Six (6) campuses within the District – 2 (two) in Plains, 4 (four) in Denver City. Plains and Denver City were provided with educational material from the District's Education Coordinator, including access to online and hard copy resources from Texas Farm Bureau, Project WET, and TWDB Major Rivers curriculum.

Management Objective

- (d) each year the District will promote water conservation through presentations given within the District

Performance Standard

- (d1) Number of presentations given during the fiscal year.

Current Performance Status

Twenty-one (21) presentations were given during fiscal year 2023 to the public, schools, libraries and other civic organizations.

Goal 8.0 Addressing Recharge Enhancement

A review of past work conducted by others indicates this goal is not appropriate at present; therefore, this goal is not applicable.

Goal 9.0 Addressing Rainwater Harvesting

Management Objective

- (a) The District will conduct an educational program for this conservation strategy at least once a year.

Performance Standard

- (a1) Number of educational programs given on rainwater harvesting.

Current Performance Status

The District held its annual rainwater harvesting workshop on May 2, 2023. Four (4) Rainwater Harvesting presentations were included in calendar presentations to 4th & 5th grade students in Plains and Denver City elementary schools.

Goal 10.0 Addressing Precipitation Enhancement

While the District did participate in this program previous, in 2015 the Board determined that it was not cost effective. Therefore, this goal is not applicable.

Goal 11.0 Addressing Brush Control

Existing programs administered by the USDA-NRCS are sufficient for addressing this goal. The Board does not believe that this activity is cost-effective and applicable for the District at this time; therefore, this goal is not applicable.

Goal 12.0 Addressing the Desired Future Conditions (DFC)

For the purposes of this management plan, the District proposes to evaluate the cumulative drawdown in 5-year increments, which will gauge our attainment of the DFC in shorter increments and allow us to make changes accordingly.

Management Objective

(a) The District will calculate the average annual drawdown using the results of annual water level measurements each winter.

Performance Standard

(a1) Present the average drawdown results to the Board of Directors each year.

Current Performance Status

(a1) The District staff presented the drawdown results to the Board of Directors during the annual report presentation in the February 2023 monthly board meeting.

(a2) The average drawdown results will be made available to the public each year.

Current Performance Status

(a2) The drawdown results are published in the District's Annual Report which is available to the public. The results are also published on the district's website.

Management Objective

(b) The District will calculate the average cumulative drawdown in 5 year increments.

Performance Standard

(b1) Present the cumulative average drawdown results to the Board of Directors each year.

Current Performance Status

(b1) The cumulative average drawdown results were presented to the Board of Directors during the annual report review at the February 2023 monthly board meeting.

(b2) The cumulative average drawdown results will be made available to the public each year.

Current Performance Status

(b2) The cumulative average drawdown results are available to the public through the district's website.

**SANDY LAND UNDERGROUND
WATER CONSERVATION DISTRICT**

**IRRIGATION EFFICIENCY TESTS
WATER LEVEL MONITORING NETWORK
DEPLETION PROGRAM**

**IRRIGATION EFFICIENCY TESTS,
WATER LEVEL MONITORING NETWORK &
THE DEPLETION PROGRAM**

Reference Goal 1.0 (a) (b) (c)

One of the goals of Sandy Land UWCD is to provide the most efficient use of groundwater within the District. One of the ways this is accomplished is by conducting efficiency tests on irrigation wells at the owner's request. District personnel endeavor to perform these tests in a timely manner so that the owner may have the needed information as soon as possible to make important irrigation decisions.

Sandy Land UWCD took the first water level measurements in 1991 and has been doing so on a yearly basis ever since. Approximately 90 wells are in the Water Level Monitoring Network and these are measured each year in January and/or February to provide information about the Ogallala Aquifer in Yoakum County. Measurements in the network are generally taken in the winter months because water levels are more stable at that time than during the summer months when pumping is heavier. Irrigation wells are normally used in the monitoring program as they afford ease of entry for measurements. The measurements from these wells are compared with previous year's measurements to determine any changes in water levels.

District personnel use this well depth data to construct hydrographs and depletion maps which are given to an Internal Revenue Service agent for review. After approval, these are used to determine the amount of decline allowable on federal income tax returns.

All landowners in Yoakum County who utilize groundwater may claim a cost-in-water income tax depletion allowance on their federal income tax return. Landowners must have an established value in their water and a decline of the water table for the year before the claim may be made.

Based on the interest from landowners over the last few years it appears the benefits have been exceptionally good. Request forms may be picked up at the district office in Plains. Requests to participate in the Depletion Program must include:

- name;
- address;
- complete legal description of the tract of land on which a claim is to be filed;
- date of acquisition; and
- the number of acres in the tract.

Sandy Land UWCD currently has approximately 93 participants and approximately 92,000 acres of land enrolled in the Depletion Program.

Below is an allocation of time spent on Irrigation Efficiency Tests, Water Level Monitoring Network and Depletion Program.

Activity	Total Hours
Perform Irrigation Efficiency Tests at Producers Request	6
Measure Water Levels	74
Draw Decline Map & Assign Declines	30
Update Hydrograph Spreadsheet & Charts, Prepare Hydrograph Book	24
Update, Prepare and Mail Depletion Letters	24
TOTAL	158

Well Depth Measurement Sheet for 2023 Measurements

Well Depth Measurement Sheet			
Comparing 2022 and 2023 Measurements			
Well Number	Section Number	2022 Measurement	2023 Measurement
24-33-801	41	139.20	139.2
24-41-201	100	130.60	132.8
24-41-502	183	172.60	168.1
24-41-602	187	115.00	117.3
24-41-802	306	85.90	81.5
24-41-804	305	87.80	
24-42-401	128	130.50	131.0
24-42-801	252	157.60	156.6
24-43-403	196	84.50	88.3
24-43-501	146	114.80	121.2
24-43-801	260	37.50	41.3
24-44-101	10, Block K	143.60	148.4
24-49-101	344	53.50	54.2
24-49-201	365		57.0
24-49-203	397	102.10	102.6
24-49-303	368	36.00	35.1
24-49-401	418	155.00	159.6
24-49-702	518		
24-49-802	540		181.2
24-49-903	514	147.60	169.1
24-50-203	371	103.40	147.4
24-50-204	312	153.90	105.8

Well Number	Section Number	2022	2023
24-50-402	425	117.40	116.0
24-50-501	440	49.20	49.6
24-50-801	510	89.20	89.7
24-51-101	317		127.9
24-51-201	380	81.40	82.5
24-51-602	489	129.80	132.2
24-51-701	504		190.2
24-52-701	40, Block K	109.10	111.3
24-57-101	581		
24-57-301	576	123.90	123.2
24-57-305	640	92.40	92.9
24-57-501	642		96.4
24-57-502	707	59.60	56.4
24-57-601	734	89.50	
24-57-702	772	103.00	113.7
24-57-802	770	90.60	88.7
24-57-901	797	74.80	
24-58-101	607	111.80	117.8
24-58-201	610		105.2
24-58-401	637	87.70	88.1
24-58-601	696	105.00	104.2
24-58-801	764		
24-58-901	761	74.20	
24-59-101	566	98.10	105.1
24-59-201	564		68.2

Well Number	Section Number	2022	2023
24-59-301	627	139.00	137.5
24-59-801	757	78.60	
24-60-402	686	96.20	100.3
24-60-701	752	50.20	53.3
25-48-301	121		139.5
25-48-601	165	122.30	123.2
25-48-801	299	65.90	64.9
25-56-201	358	113.30	125.8
25-56-502	414	151.30	164.9
25-56-902	522		155.4
25-56-901	521		150.9
25-64-301	597	152.60	158.4
25-64-502	650	130.10	133.0
25-64-801	777	151.50	156.1
25-64-901	789	153.00	154.9
26-08-202	852		175.0
27-01-202	835	126.50	128.4
27-01-301	895		
27-01-302	862		
27-02-101	864	67.40	67.7
27-02-303	825	70.80	71.3
27-03-101	886	125.90	133.3
27-03-202	819		
27-04-101	Block 19, C34, PSL	148.20	151.4
24-44-701	Block 20, K, PSL	27.00	28.8

Well Number	Section Number	2022	2023
22-42-504	154	89.40	
25-48-921	241	74.60	73.3
26-08-317	854	220.80	
24-50-605	431	86.90	86.8
24-57-112	645		
24-58-508	700	96.00	95.3
27-02-212	891	98.70	102.0
24-50-924	549	95.50	116.3
24-57-735	791	214.00	205.0
25-48-329	106		139.0
24-41-535	160	101.50	101.5
24-41-202	101	143.80	149.9
24-42-702	248	74.40	71.4
25-64-604	662	146.80	144.2
27-01-102	902	194.50	194.8

**SANDY LAND UNDERGROUND
WATER CONSERVATION DISTRICT**

WATER QUALITY NETWORK

**SANDY LAND UNDERGROUND WATER CONSERVATION DISTRICT
WATER QUALITY NETWORK**

Reference Goal 2.0 (a)

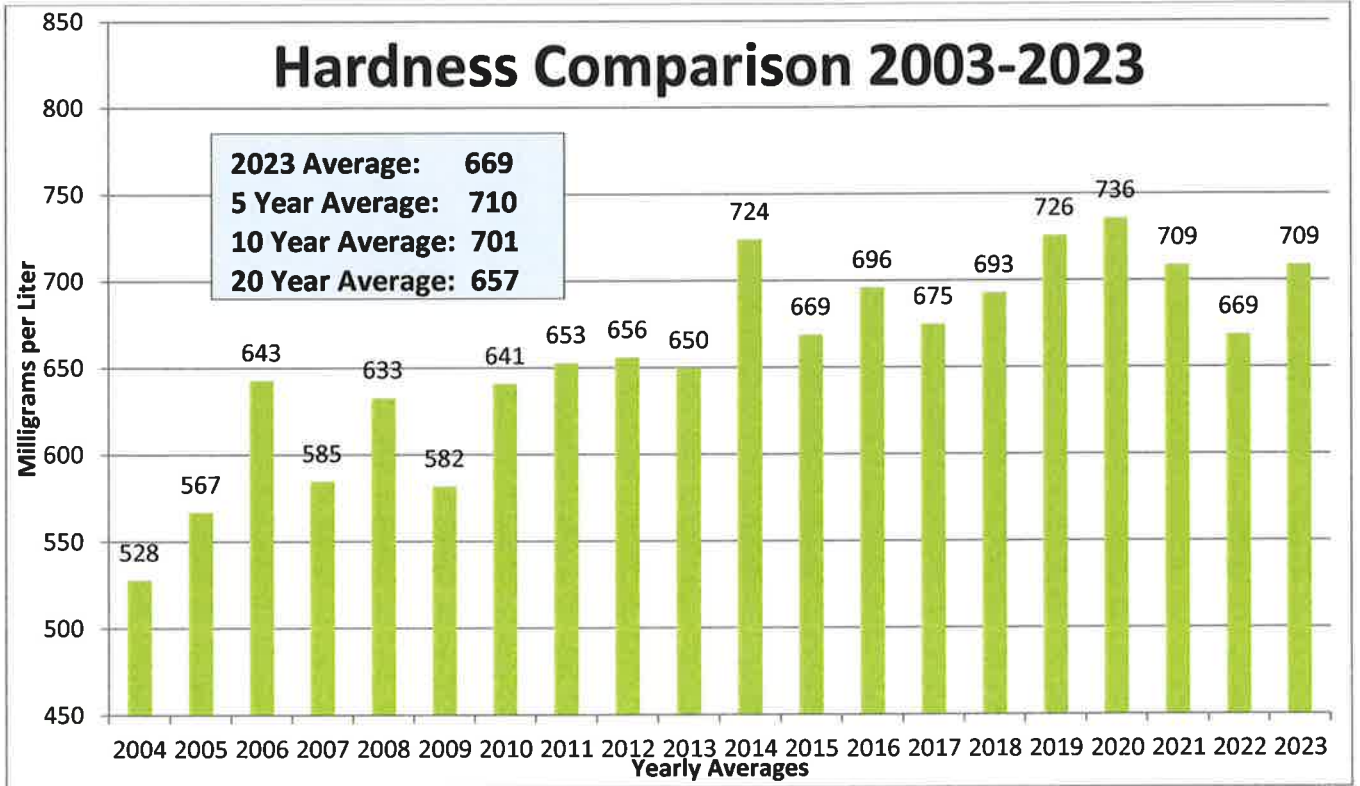
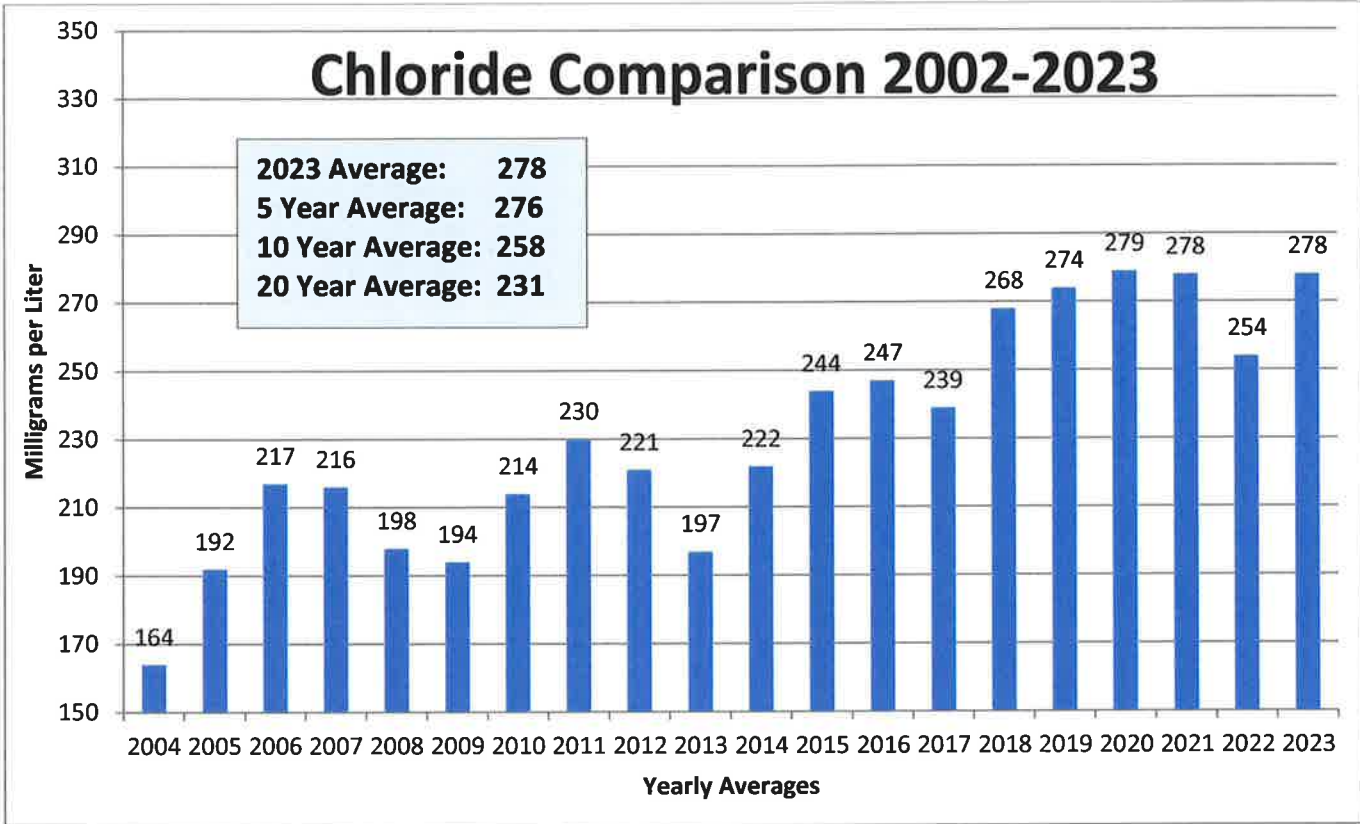
Sandy Land UWCD has completed 33 years of study of rural water in Yoakum County. The district performs water quality analysis on a majority of the 97 wells in the network yearly and has data on the majority of these wells since the districts creation in 1990. Sandy Land UWCD believes it is important to monitor the trends of these wells in order to detect changes in water quality within the Ogallala Aquifer. By detecting changes in the groundwater quality, the District would ideally be able to identify the source that caused the change and work to eliminate it. We at Sandy Land UWCD feel it is important, as a single county water district, to continue to work to protect the groundwater in our area.

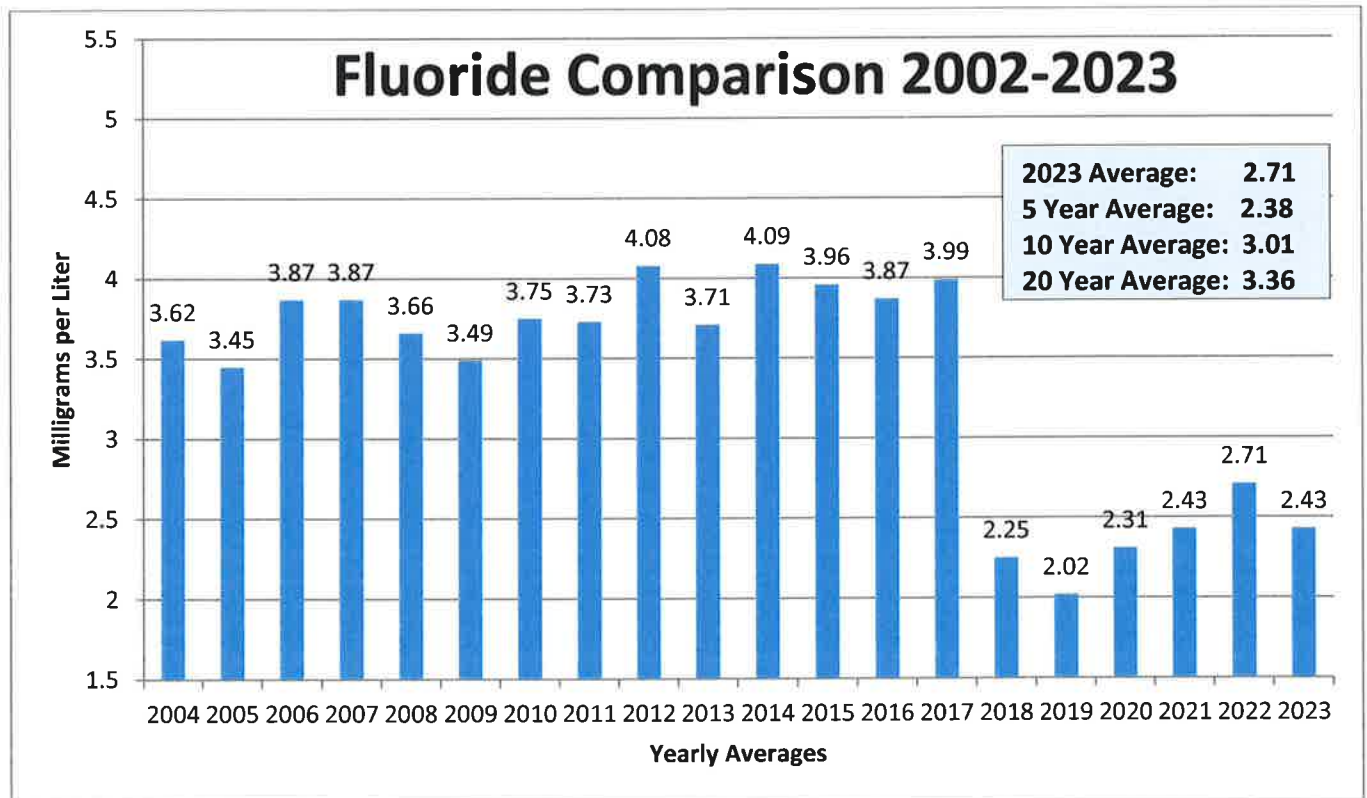
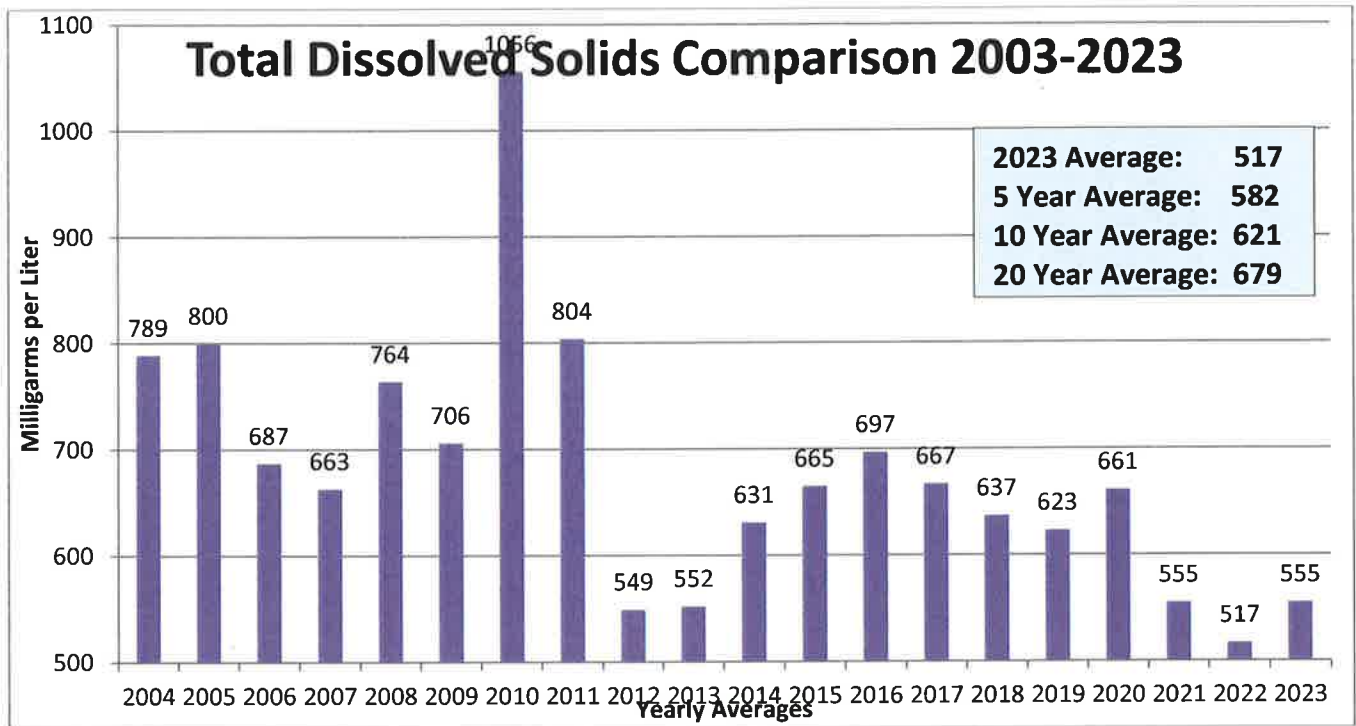
Sandy Land tests for a total of seven components or properties each year. These consist of chloride, hardness, total dissolved solids, fluoride, iron, nitrate, and pH for each well. During the testing process in 2012, we decided that the alkalinity and specific conductivity tests were not pertinent to determining the district’s water quality. For this reason, we decided to no longer keep a record of these levels. Bacteria test analysis is not routinely done on network wells but can be done upon request. Residents of the District may request water quality tests at any time and we will perform these tests in a timely manner. Within each property, we are able to detect variances from year to year. Since the test wells are scattered throughout Yoakum County, we are able to tell the difference in quality in different regions of our county.

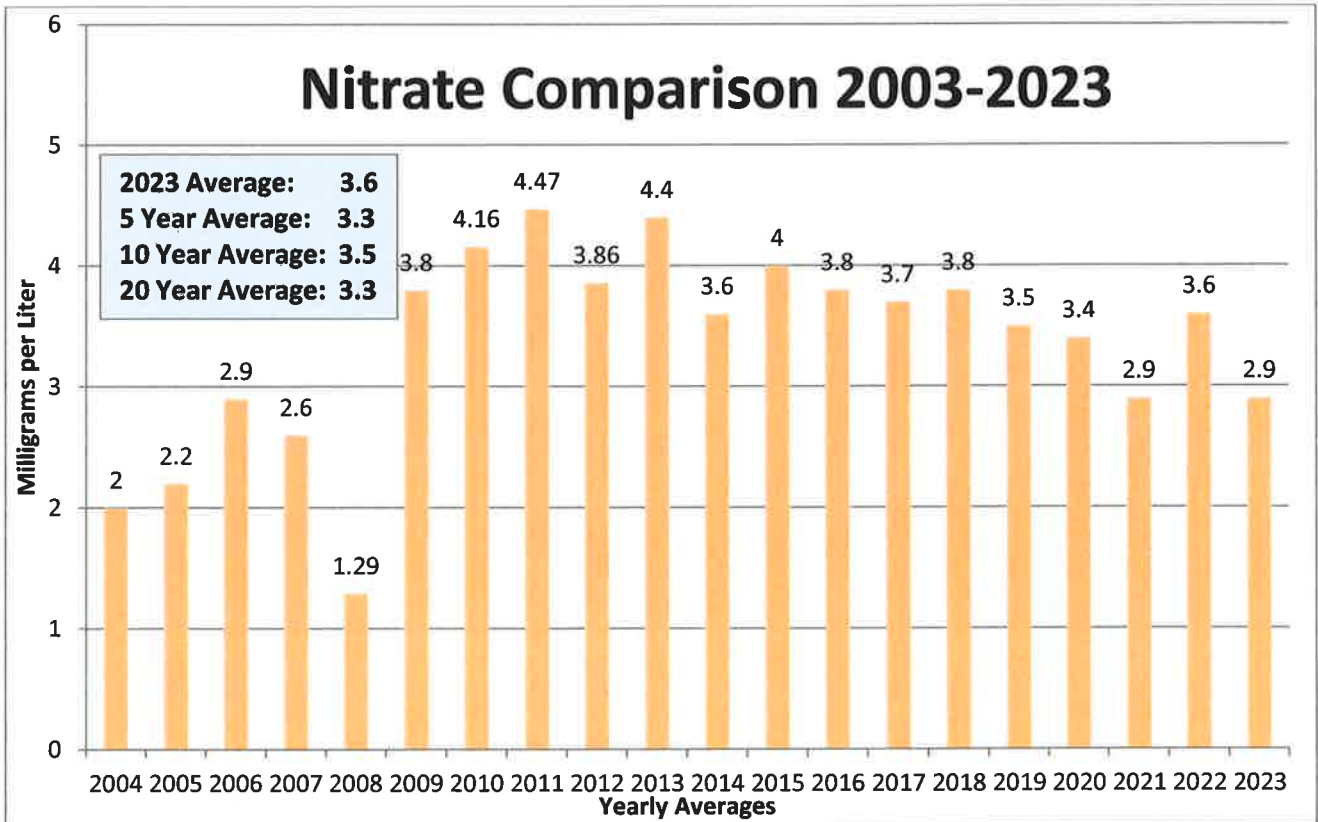
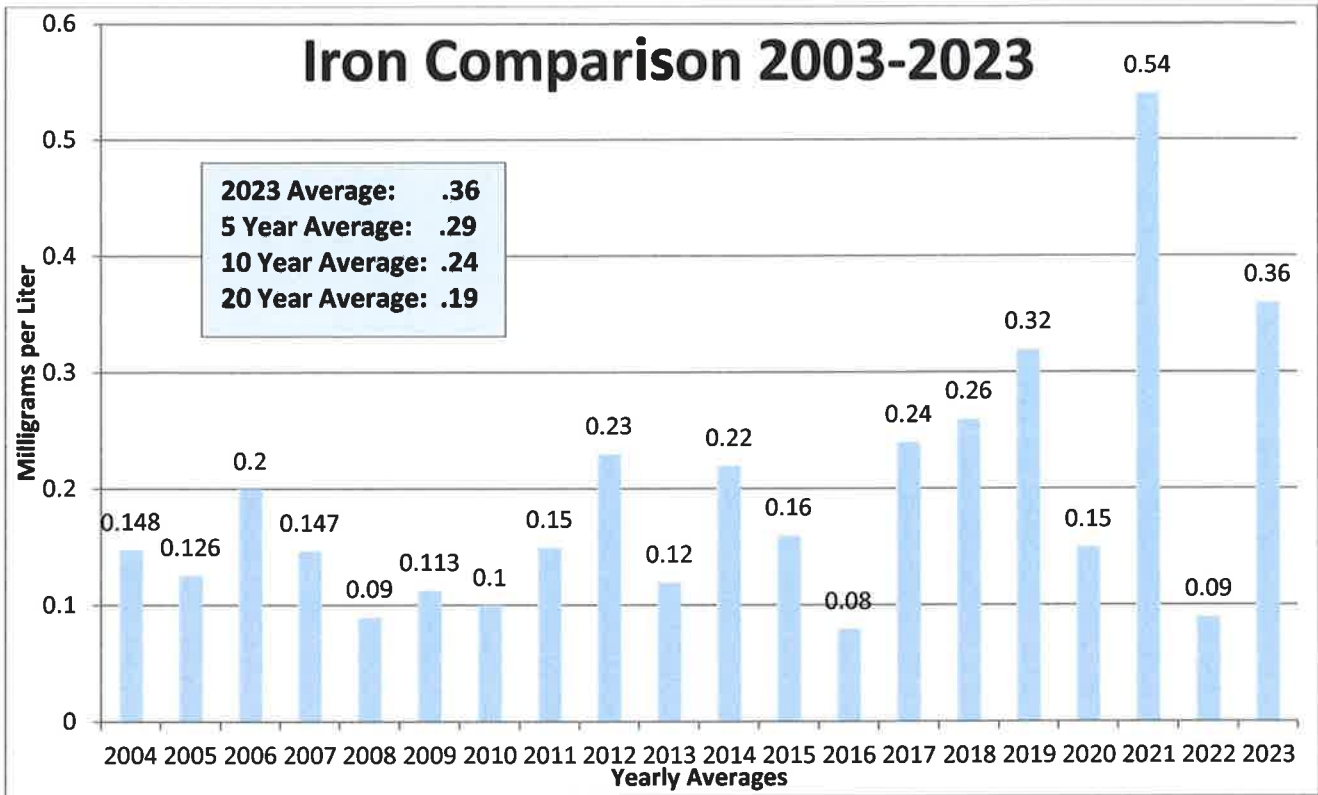
The chart below shows the number of well samples, average, maximum, and minimum values for 2023, as well as the current drinking standards, if available.

2023 Water Quality Data

2023	Chloride	Hardness	Total Dissolved Solids	Fluoride	Iron	Nitrate	pH
Average	265	706	489	2.56	2.76	7.8	7.56
No. of Wells Tested	76	76	76	76	76	75	76
Minimum	48	314	181	0.887	0	0.129	5.37
Maximum	876	1772	985	3.78	183	361	8.64
Drinking Water Standard	Not to Exceed 300 mg/L	N/A	N/A	Not to Exceed 4.0 mg/L	Not to Exceed 0.3 mg/L	Not to Exceed 10 mg/L	N/A







Below is an allocation of time spent on Water Quality Program.

Activity	Hours per Sample	Number of Samples	Total Hours
Perform Water Quality Tests by Requests	1	28	28
Water Quality Network - Retrieve Samples and Perform Tests	1	76	76
Update Records, Notification to Residents	.50	104	52
		TOTAL	156

**SANDY LAND UNDERGROUND
WATER CONSERVATION DISTRICT**

WELL PERMITTING AND REGISTRATION

WELL PERMITTING AND REGISTRATION

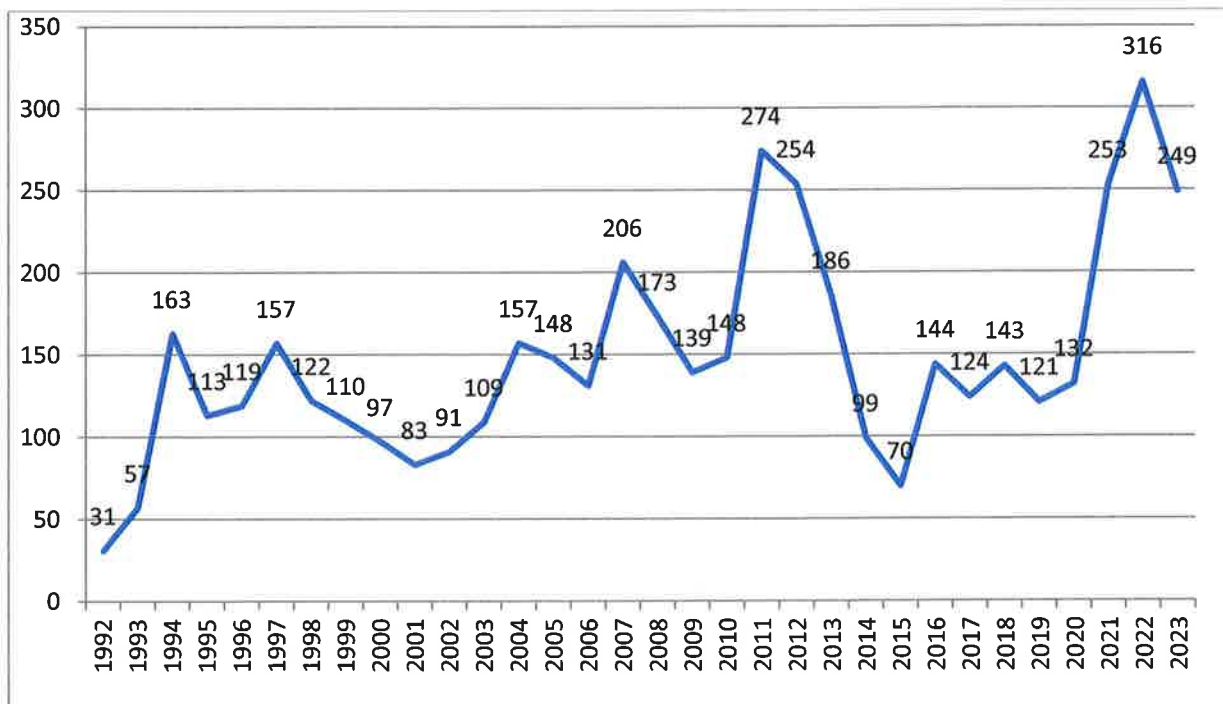
Reference Goal 2.0 (b)

Each year, the District enforces spacing and production limitation rules requiring the permitting of all new wells to prevent the waste of groundwater. The District issues temporary permits for requests that meet the District's rules for spacing. Production limits are also set in an attempt to prevent misuse of our groundwater supply.

During 2023, two hundred and forty-nine (**249**) permits have been issued to local producers. Of these permits, two hundred and twenty-one (221) have been returned with well registration logs from the driller or have been voided in view of the fact that the well was not drilled, or the well log has been retrieved from internet. Of the remaining twenty-eight (28) permits not returned, sixteen (16) are still within the 90-day drilling period and are not due at this time. This leaves twelve (12) permits (or 4.8%) not returned within the allotted time period.

Raymond Brady was hired in October of 2005 as a contract hydrologist to enter the well log data into a well log database program. From this information, he has been able to prepare new maps for the district. He presented saturated thickness maps, base of the aquifer maps and prepared our decline map for the depletion program. He is currently working on finding information from other aquifers.

The following graph denotes the number of permits issued over the past 33 years, a total of 4719.



Below is an allocation of time spent on the Well Permitting and Registration Program.

Activity	Hours	Number of Applications/Logs	Hours
Preparing Permit and Well Log for Applicant, Refunding Deposit	.50	249	124.5
Entering Permit Information into Computer	.50	249	124.5
		TOTAL	249

**SANDY LAND UNDERGROUND
WATER CONSERVATION DISTRICT**

AGRICULTURAL LOAN PROGRAM

AGRICULTURAL LOAN PROGRAM

Reference Goal 3.0 (a)

In 1989, the 71st Texas Legislature implemented the Agricultural Water Conservation Program to allow the Texas Water Development Board to loan money to water conservation districts. This money was to be used by local districts to make loans to producers within their respective districts for improved efficiency of irrigation systems.

In the February of 1992, the Texas Water Development Board approved their initial loan to Sandy Land Underground Water Conservation District in the amount of \$500,000 to provide financing for the purchase of approved agricultural water conservation equipment, including center pivot irrigation systems, sprinkler package conversions, and drip irrigation equipment. Since that time, the Texas Water Development Board has made **24** loans to Sandy Land for over **\$19,025,000.00**.

Since 1992, Sandy Land UWCD has loaned money for **414** new and used water conserving center pivot irrigation systems, for a total of **\$12,677,310.07** to Yoakum County producers. The District has also loaned money for four sprinkler packages in the intervening years. Sandy Land UWCD has never had a default on a loan.

Below is an allocation of time spent on the Ag Loan Program.

Activity	Hours per Loan	Number of Loans	Total Hours
Processing Existing Loans (Preparing Invoices, Receipts, UCC Filings, etc.)	1.00	14	14
Maintaining Database	1.00	14	14
Maintaining Insurance	.50	14	7
Inspection	.50	14	7
		TOTAL	42

**SANDY LAND UNDERGROUND
WATER CONSERVATION DISTRICT**

SCHOLARSHIP AND EDUCATION PROGRAM

SCHOLARSHIP AND EDUCATION PROGRAM

Reference Goal 3.0 (b) (c)

Not only is Sandy Land Underground Water Conservation District concerned with the technical side of water issues, education has also become a top priority. With the knowledge that the Ogallala Aquifer has been depleting over the last few years, Sandy Land believes that it has an obligation to help educate the residents of Yoakum County in water conservation. This is being done in several ways, including water conservation booklets and presentations to our school age children, a scholarship essay contest for our high school senior students, and newspaper articles, newsletters, and program presentations at various events and conferences for everyone in the District.

Sandy Land Underground Water Conservation District began awarding scholarships to Plains and Denver City high school seniors in 1991. These scholarships are based on essays written by these students on the topic of the current water situation in our area and proposals for future conservation of that water. In the beginning, only two scholarships were awarded every year, one to a Plains student and one to a Denver City student. In 1996, the Board of Director's decided to give two scholarships to each school. Over the past **33** years, Sandy Land Underground Water Conservation District has awarded **\$129,500** to the students of Yoakum County through these scholarships.

Sandy Land Underground Water Conservation District has participated for many years in the Conservation Jamboree, a presentation of the Natural Resource Conservation Service in Yoakum County. This Jamboree, which targets all the fifth-grade students in the county, presents different learning stations that highlight many aspects of conservation. District personnel from Sandy Land present a water conservation activity in addition to presenting the mobile education trailer models to the fifth grade. Sandy Land's education coordinator presented teacher gifts and resources to elementary science/classroom teachers at the beginning of the school year. Teacher boxes contained water saving tools, lab equipment, and a list of resources available to teachers including videos, lesson plans, curriculum resources, etc. from the water district. Additionally, the District Texas 4-H Water Ambassadors assisted in presenting at the Plains ISD Career Fair in October with a station on density and water properties for grades PK – 12.

Sandy Land UWCD frequently has articles published in the county newspaper. These articles are used to inform the residents of upcoming events, public notices, deadlines for conservation programs and scholarship essays, and other services that are provided by the District.

Various members of the District staff have been very busy this year both attending and speaking at conferences and meetings.

Sandy Land UWCD keeps a supply of water-conserving showerheads and aerators to be given away in an effort to make water conservation more convenient and accessible to Yoakum County residents.

Sandy Land UWCD through the education co-op with Llano Estacado and South Plains groundwater districts has sponsored the Texas 4H Water Ambassador program and helped to facilitate local youth who participate in the statewide program. The first group of water ambassadors from Yoakum County joined the program in 2018. Youth from Yoakum County continue to be actively involved in the program with a former local ambassador working for Texas A&M AgriLife in College Station while attending TAMU. Currently the education coordinator serves on the state advisory board for Texas 4H Water Ambassadors program.

Below is a listing of scholarship winners by year.

1991

Plains – Dan Rushing
Denver City – J.J. Klean

1992

Plains – Ashlee Winn
Denver City – Tie
Evertt Harrel
Dallas Stevens

1993

Plains – Gerald Goodman
Denver City – Lysette Silvas1994

1994

Plains – Gabriel Flores
Denver City – Shailaja Marion

1995

Plains – Ken McAdams
Denver City – Jamie Huber

1996

Plains – Valerie Blair
Kelly McGinty
Denver City – Joshua Smith
Jonathan Mock

1997

Plains – Marte Pierce
Jacob Lester
Denver City – Amy Risley
Bud Sanders

1998

Plains – Yvonne Gonzales
Shawna Box
Denver City – Elvia Garcia
Justin Mock

1999

Plains – Steven Bunch
Mike Bell
Denver City – Kristen Long
Traci Tucker

2000

Plains – Jason Swann
Shaunda Eady
Denver City – Glinnis Wolf
Nichole Newsom

2001

Plains – Taylor Gray
Armando Luna
Jessica Long
Denver City – Jennifer Arnold

2002

Plains-Chris Hansen
Jeffrey Lollar
Denver City- Kyndal Eady
Jarryn Mock

2003

Plains- Ryan Swann
Kelly Bowers
Denver City- Jeremy Thompson
Nicole Gutierrez

2004

Plains- Brandon Davis
Lashonda Diamond
Denver City- Abby Droogsma
Leah Gibson

2005

Plains-Caylon Garnett
Payton Bean
Denver City-Chelsey-Anne Bearden
Torre Stewart

2006

Plains- Blake O'Quinn
Benjamin Hays
Denver City- Melina Terrazas
Lizette Bayona

2007

Plains-Clarissa Zorilla
Jose Luis Gallegos
Denver City- Chelsea Stroud
Brandon King

2008

Plains- Lauren Davis
Maria M. Andazola
Denver City- Mallory Milligan
Jacqueline Martinez

2009

Plains- Tie for 1st (\$500 each)
Bené Baum and Yesenia Loya
Denver City- Javier Arzate
Lindsey Hudgins

2010

Plains- Natalie Haynes
Emilia Gallegos
Denver City- Amanda Guzman
Katelyn Flores

2011

Plains-Hannah Crump
Shaylin Taylor
Denver City-Brittani Weir
Celia Broadwater

2012 Plains –	Jordan Martin Whitney Davis	2021 Plains -	Madalyn Franklin Macy Downs
Denver City –	Garrett English Mariza Santillan	Denver City -	Roberto Hurtado Alexis Ivy
2013 Plains -	Merrit Crump Matthew Ramos	2022 Plains	Maylin Lozano
Denver City -	Kathryn English Jaci Zingerman	Denver City	Melissa Soto Miguel Framo Kamree Horton
2014 Plains –	Bailey Winn Taylor Michaleson	2023 Plains	Sebastian Brown Mallory Bunch
Denver City –	Rowdy Brumley Kaleb King	Denver City	Madison Peters Jose Antonio Franco
2015 Plains -	Riley Earnest William Boyles		
Denver City -	Angel Loya Hadel Almubiadin		
2016 Plains -	Brittany Michaleson Madison Davis		
Denver City -	Bailee Burkett Katy Patterson		
2017 Plains -	Sage Lovelace Leigha Williams		
Denver City -	Jacee Billings Kolt Dierschke		
2018 Plains -	Kennedy Earnest Sydney Downs		
Denver City -	Jaryd Ivy Cheyenne Beach		
2019 Plains -	Breann Griffiths Mark Hartman		
Denver City -	Kaitlin Stephens Kenzi Stephens		
2020 Plains -	Neely Cross Allie Williams		
Denver City -	Riley Calk Hadlea Stine		

Below is an allocation of time spent on the Scholarship and Education Program.

Activity	Hours
Scholarship Program	25
Conservation Jamboree	24
Newsletter Publications and Newspaper Articles	10
Public Programs and Presentations	100
Total Hours	159