



ANNUAL REPORT 2017

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Purpose and Scope:

This Annual Report on the Sutton County Underground Water Conservation District's (District or SCUWCD) is on achieving its management goals and objectives for the year 2017. It is presented to the Board of Directors of the District (the Board) in accordance with the District's Management Plan (Methodology for Tracking Progress, pg. 18). Texas Water Code, Chapter 36.1071. The original Management Plan for the District was adopted in 2004. It has been amended and readopted, every five years, November 12, 2013 is the latest revision.

The Sutton County Underground Water Conservation District (the District) was created by the 69th Texas Legislature (1985) under the authority of Section 59, Article XVI, of the Texas Constitution, and in accordance with Chapter 51 and 52 of the Texas Water Code. Note, in 1995, by Acts of the 74th Legislature, Chapter 52 of the Texas Water Code was repealed and replaced with Chapter 36 of the Texas Water Code effective September 1, 1995. The District, a local government agency, provides for the conservation, preservation, protection, recharge and prevention of waste of the underground water reservoir, Edwards-Trinity (Plateau) Aquifer, located under the District; by consistently adhering to Chapter 36 of the Texas Water Code (TWC). The District conducts administrative and technical activities and programs to achieve these purposes by collecting, archiving and analyzing water well and aquifer data. It regulates water well drilling and production of permitted, non-exempt wells, promoting the capping or plugging of abandoned wells. The District also provides information and educational material to local property owners, interacting with other governmental or organizational entities, and undertaking other groundwater-related activities that may help meet the purposes of the District. The District also strives to maintain groundwater ownership and rights of the landowners as provided in the TWC §36.002.

District Board Meetings for Year 2017

DATE:	TYPE:	NOTES:
January 10, 2017	Regular Board Meeting	
February 14, 2017	Regular Board Meeting	Election of Officers
March 14n, 2017	CANCELLED	
March 20, 2017	Public Hearing	City of Sonora – Love's Application
April 11, 2017	Regular Board Meeting	City of Sonora – Love's ITD approved
May 9, 2017	Regular Board Meeting	Depository Bid
June 13, 2017	Regular Board Meeting	
July 11, 2017	Regular Board Meeting	
August 8, 2017	Regular Board Meeting	Executive Session: Personnel
September 19, 2017	Board Meeting & Public Hearing	Tax rate & annual budget
October 10, 2017	Board Meeting	Campbell joins board
November 7, 2017	Board Meeting	City of Sonora – Operating approved
December 12, 2017	CANCELLED	

Requirements of District Management Plan:

Goal 1.0 – Provide for the Efficient Use of Groundwater (36.1071(a)(1))

1.1 - Provide programs to improve public awareness of efficient use, wasteful practices and conservation measures.

DATE:	PROGRAM:	PURPOSE:	NOTES:
May 9, 2017	5 th Grade Field Day	Visit to Eddie Sawyer’s ranch	Partner with AgriLife Ext. & NRCS
November 21, 2017	4 th Grade Water Fair	Water Field Day	Partner with AgriLife Ext. & NRCS

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

DATE:	SOURCE:	TITLE:	NOTES:
October 5, 2017	Devil’s River News	Water – Your Future Depends on It	J. Polonis

Goal 2.0 - Control and Prevent Waste of Groundwater (36.1071(a)(2))

2.1 – The District provides educational leadership to citizens within the District concerning this subject. The activity is accomplished annually through at least one printed publication, such as a brochure, and public speaking at service organizations and public school.

DATE:	EVENT:	PURPOSE:	NOTES:
November 7, 2017	High School Pres	Mrs. Owen’s Environmental Class	

*District distributed 2 brochures throughout the year to businesses and public offices

Goal 3.0 - Natural Resource Issues (36.1071(a)(5))

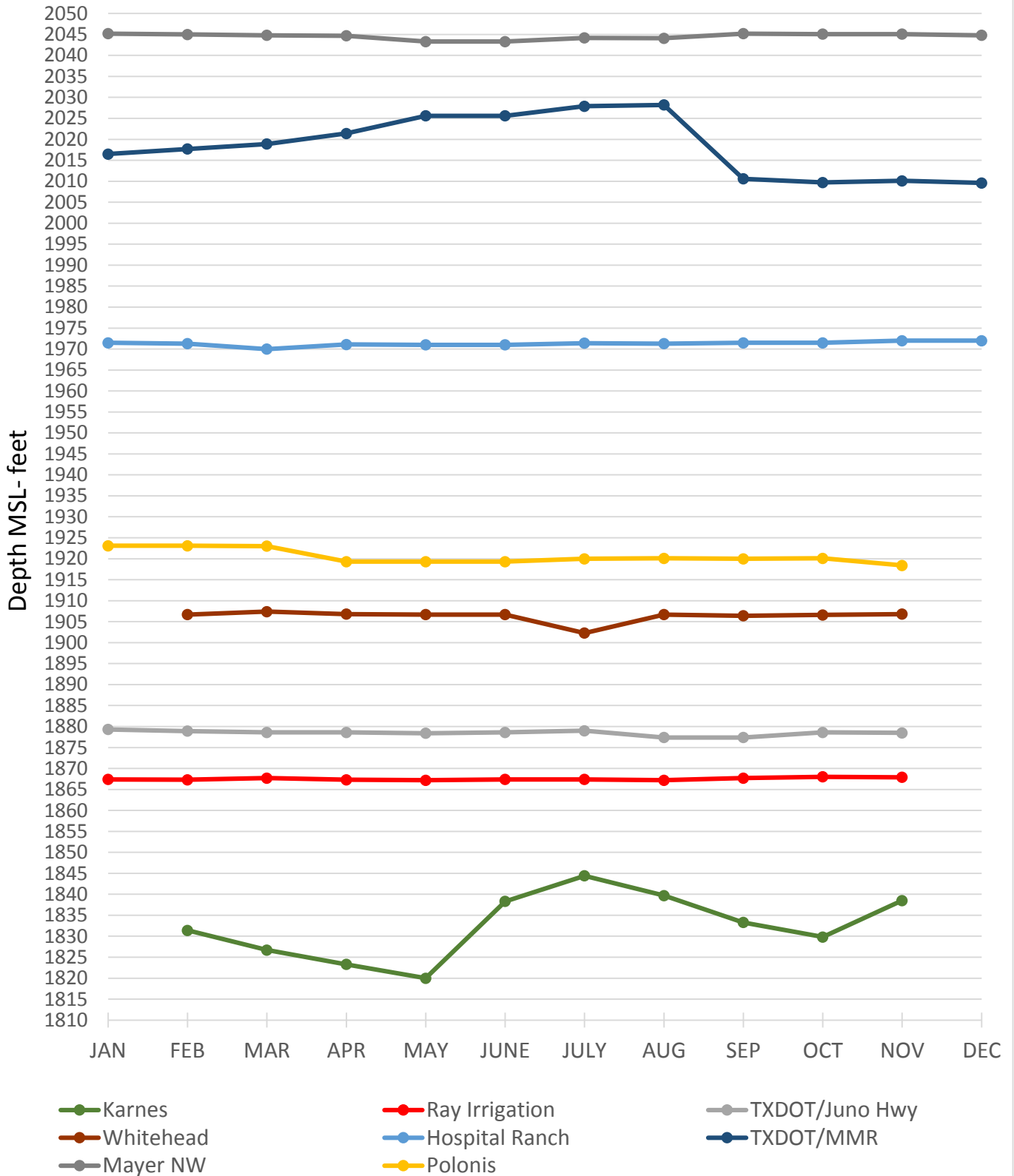
3.1 – Measure, monthly, the wells in the water level monitoring network within the District with steel tape, E (Electric)-line, and download data from electronic sensors. The table below contains this information.

OWNER	WELL #	ASL	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	DIF
Archer	55-29-810	2332.0	—	275.3	275.9	274.5	275.2	277.8	278.7	278.0	279.3	278.1	280.2	—	4.9
Co. Cemetery	55-27-615	2143.7	—	169.1	168.4	169.0	169.9	170.3	170.0	169.8	169.6	169.3	169.3	169.6	.5
Teaff	55-27-616	2253.4	261.1	261.6	262.2	262.7	262.8	262.6	262.6	262.7	262.5	262.4	262.3	262.3	1.2
Crites	55-27-622	2133.4	161.6	162.8	163.2	164.3	165.7	166.5	166.1	166.0	166.1	165.3	165.4	165.6	4.0
Karnes	55-33-806	1988.4	—	157.0	161.7	165.1	168.4	150.1	144.0	148.7	155.1	158.6	149.9	—	7.1
Ray Irrigation	55-42-502	2087.6	220.2	220.3	219.9	220.3	220.4	220.2	220.2	220.4	219.9	219.6	219.7	—	.5
Shurley/Hudleston	55-35-210	2059.2	—	153.4	154.4	155.6	156.2	153.8	154.0	155.2	156.2	154.4	154.4	154.5	1.1
TXDOT/Juno Hwy	55-43-205	2083.0	203.7	204.1	204.4	204.4	204.6	204.4	204.0	205.6	205.6	204.4	204.5	—	.8
Whitehead	55-25-902	2040.6	—	133.9	133.2	133.8	133.9	133.9	138.3	133.9	134.2	134.0	133.8	—	.1
Hospital Ranch	55-25-406	2213.6	242.1	242.3	243.6	242.5	242.6	242.6	242.2	242.3	242.1	242.1	241.6	241.6	.5
Brockman	55-45-305	2265.2	254.8	254.6	254.9	255.8	256.0	256.9	256.3	256.4	256.6	256.7	257.3	—	2.5
Ross House	55-38-402	2207.2	187.3	187.4	188.3	188.8	188.7	188.5	188.9	189.2	189.5	189.3	189.6	—	2.3
Robert Pfluger	55-37-705	2288.6	—	313.0	313.0	314.4	—	—	313.4	313.4	313.6	313.4	313.6	—	.6
Glen Fisher	55-28-302	2365.0	227.9	227.6	228.1	228.2	229.2	228.7	228.4	228.4	228.7	230.5	230.5	230.7	2.8
Bill Stewart	55-20-904	2367.3	—	245.8	245.8	246.4	248.0	249.2	241.6	—	245.9	246.5	247.6	—	1.8
Dick Street	55-22-901	2456.3	—	—	—	275.4	276.1	277.4	—	276.0	276.9	276.1	267.2	—	
Bill Tittle	55-19-903	2205.6	—	203.3	200.9	200.7	200.7	200.8	200.0	200.1	199.0	200.6	199.9	200.6	2.7
Jones, Claire	55-27-909	2099.6	144.0	144.6	144.7	145.5	146.0	146.1	145.9	146.1	145.9	145.6	145.7	145.9	1.9
TXDOT/MMR	55-18-715	2158.7	142.2	141.0	139.8	137.3	135.4	133.1	130.8	130.5	148.1	149.0	148.6	149.1	6.9
Mayer NW	55-17-504	2233.6	188.4	188.6	188.8	188.9	189.1	190.3	189.4	189.5	188.4	188.5	188.5	188.8	.4
Hardgrave	55-30-604	2371.0	—	256.7	257.1	257.0	257.3	256.8	256.9	257.0	257.5	257.5	257.4	—	.7
Condra	55-29-607	2300.7	198.9	199.1	199.5	199.9	200.4	200.5	200.5	200.6	201.2	201.4	201.5	—	2.6
Ross	55-38-405	2323.0	268.2	268.0	268.0	268.3	268.7	268.6	268.7	269.0	269.1	269.2	269.4	—	1.2
TXDOT/427	55-39-406	2191.6	158.7	158.6	158.6	158.6	158.9	159.0	159.1	159.2	159.2	159.2	159.2	—	.5
Highmount	55-27-223	2328.5	319.9	319.9	319.9	320.1	320.4	325.5	323.2	323.4	323.4	323.1	323.5	323.7	3.8
Fisher-Fawcett	55-26-905	2170.8	—	—	271.3	271.7	271.9	271.9	271.7	272.9	272.0	272.9	272.0	271.8	.5
Polonis	55-33-205	2290.0	366.9	366.9	367.0	370.7	370.6	370.7	370.0	369.9	370.0	369.9	371.6	—	4.7
City Well #3	55-27-603	2260.0	286.7	287.1	287.4	288.1	288.9	289.5	289.2	288.4	288.0	287.6	287.7	287.9	1.2
SUTUWCD DCW	55-27-322	2146.0	162.5	162.8	163.0	163.2	163.3	163.3	163.3	163.2	163.2	163.1	163.2	163.3	.8
Nolan Ryan Ft. Terrett #7	55-39-505	2148.0	—	127.8	128.0	127.9	127.9	127.5	127.5	—	128.3	127.9	127.9	—	.1

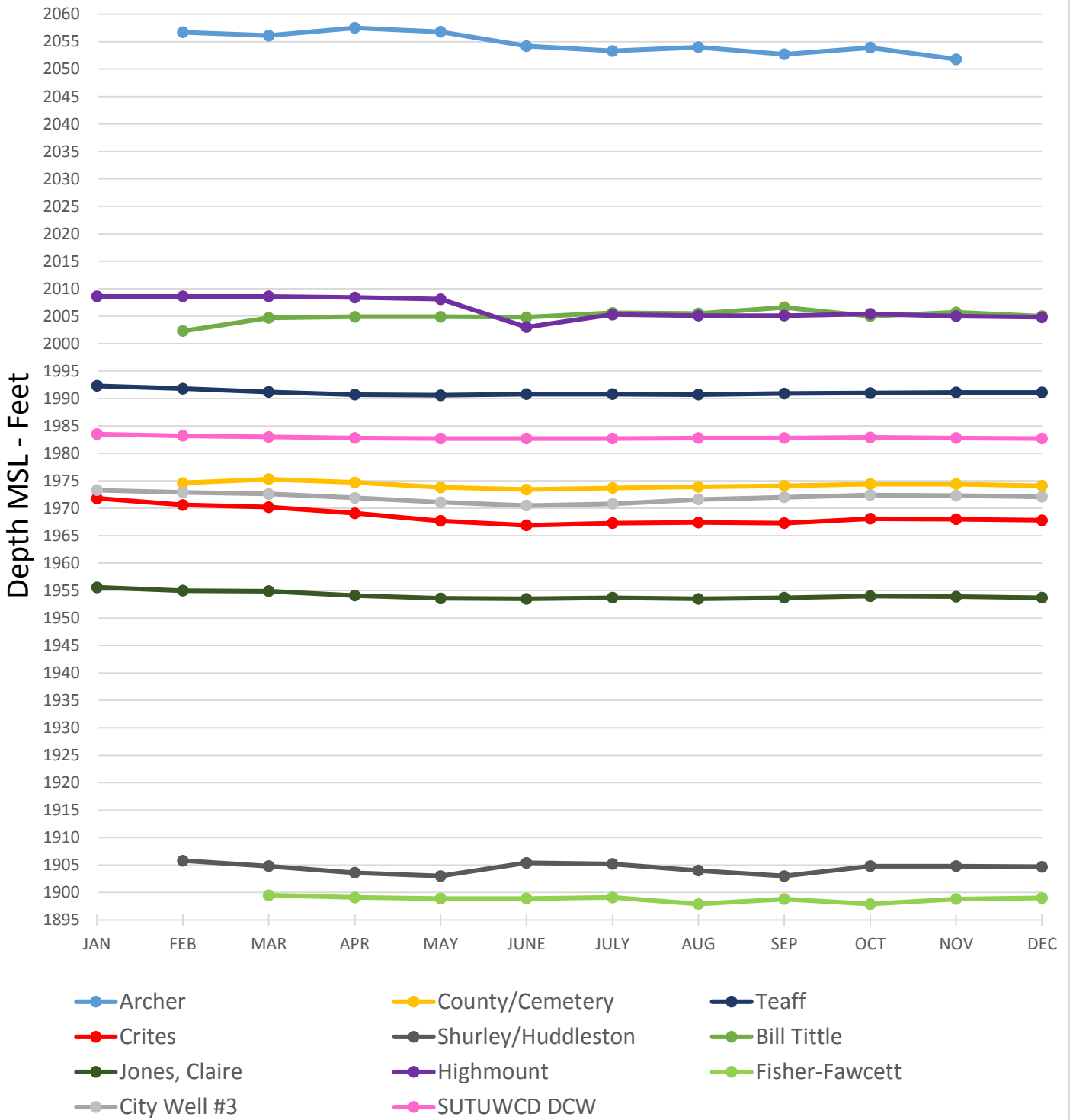
*measurements in feet below ground level

*The 'dif' column is the difference in the January measurement from the December measurement.

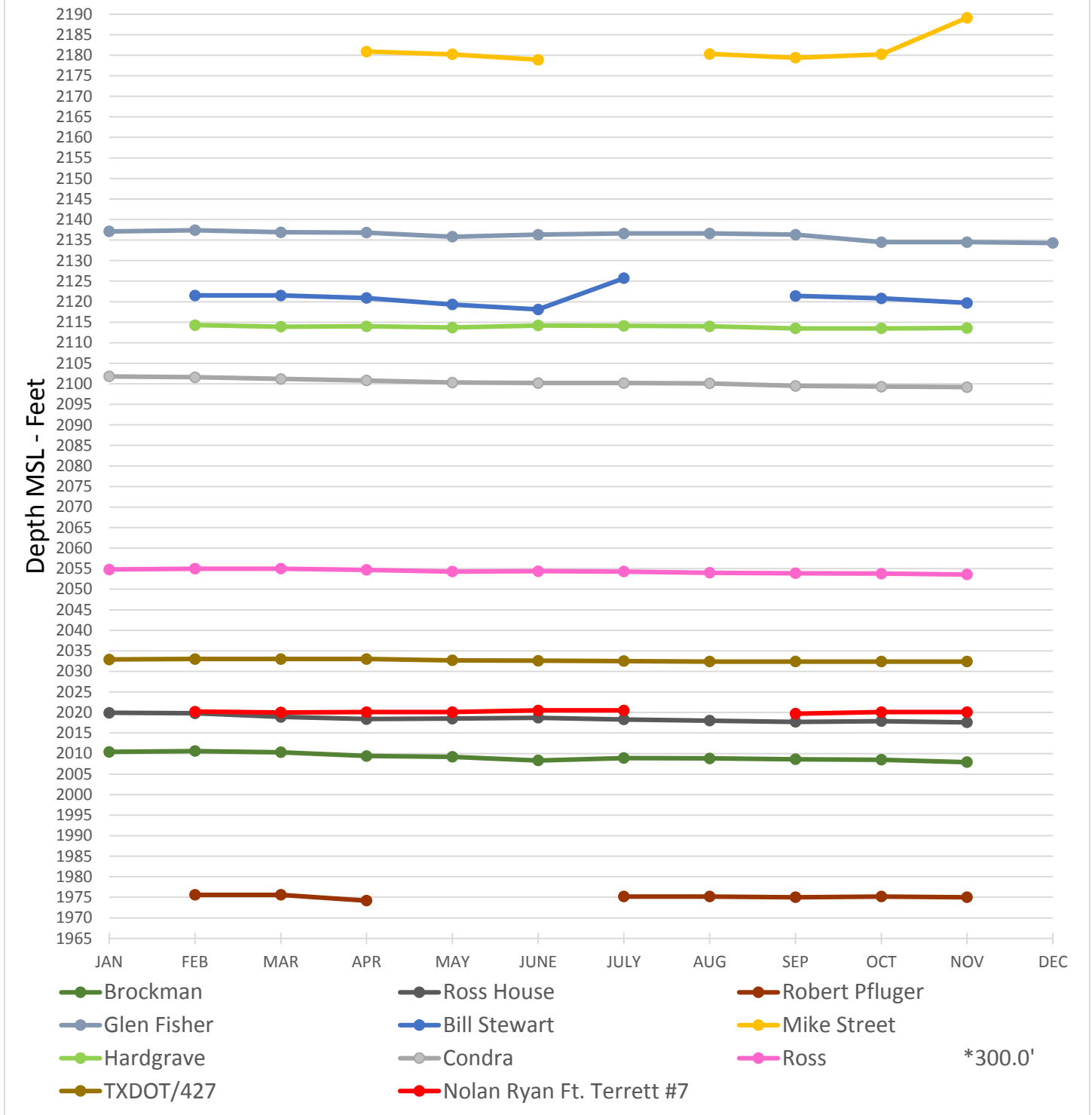
Western Section of Sutton County Water Level Monitoring Wells 2017



Central Section of Sutton County Water Level Monitoring Wells 2017



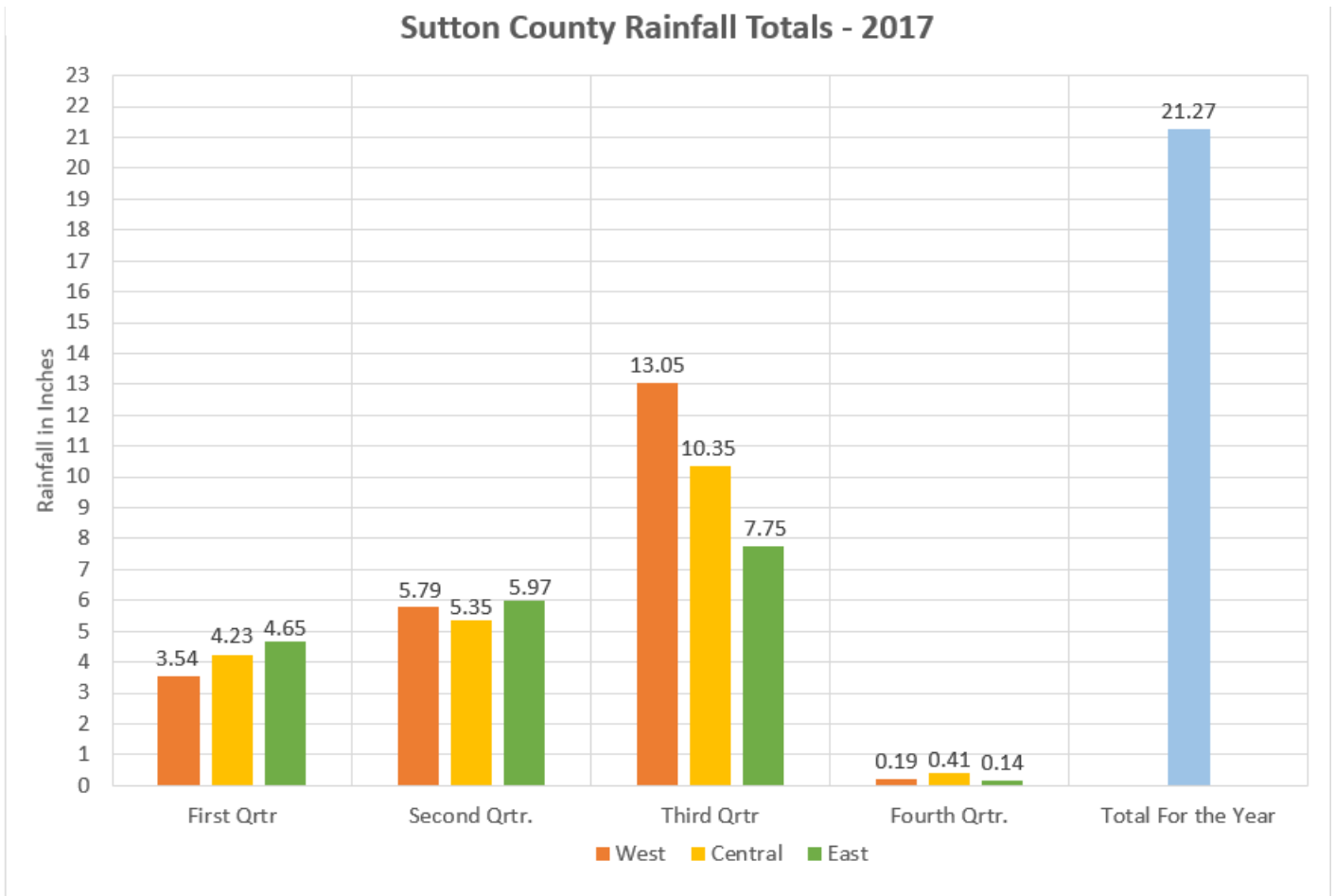
Eastern Section of Sutton County Water Level Monitoring Wells 2017



**Due to weather and/or measurement error, certain wells were not measured every month. For more details check in District files for specific well dates that are not filled.

3.2. – Maintain a district-wide rainfall event network using volunteers who monitor and report data they collect along with automatic digital rainfall collectors for the evaluation of aquifer recharge.

Sutton County Rainfall Totals - 2017



The District reports the monthly rainfall results on each rain gauge, then graphs this information quarterly, as shown in the figure above. This data includes the automatic rain gauges, which are measured the third week of the month. Due to rainfall creating a lack of access to collect data, rain gauges were not collected at the end of December. Therefore, for the 4th Quarter, data was not completely collected for the end of November and December. Totals will be available after the 3rd week in January.

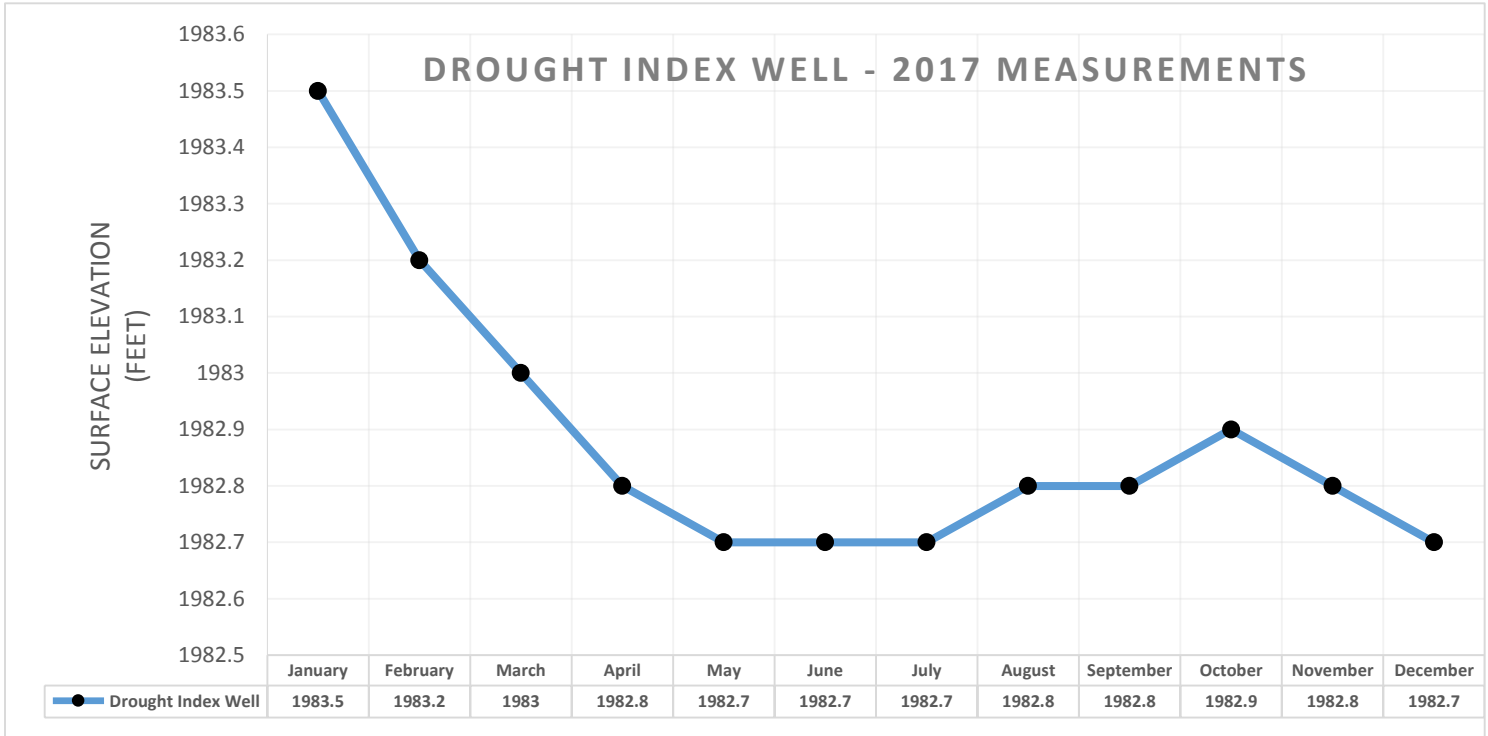
3.3 – Annually sample 33% of the 60 operating monitor wells in the District’s water quality monitoring network. The District is an active participant in the TWDB water quality program providing it with water quality information each year.

The results of the annual water quality monitoring network can be found in the District’s files. This data is analyzed by the District’s geochemist consultant for trends in the water chemistry of the aquifer.

Goal 4.0 - Drought Conditions (36.1071(a)(6))

4.1 – The District has an approved Drought Contingency Plan compliant with TCEQ standards, it also has a drought index well with trigger levels referenced in the plan. Water levels of monitored wells and Drought Index Well are reported monthly. If there are changes that warrant actions to restrict water usage the appropriate trigger in the plan is activated.

There were no triggers or changes that warranted actions to restrict water usage in Year 2017.



This graph illustrates the water levels, over time, in the aquifer at the Drought Index Well dropped .8 ft during 2017. This is not considered a significant drop.

Goal 5.0 - Conservation and Precipitation Enhancement (36.1071(a)(7))

5.1 – Provide and distribute literature on water conservation by publishing at least one newsletter or newspaper article annually.

DATE:	SOURCE:	TITLE:	NOTES:
October 5, 2017	Devils River News	Water – Your Future Depends on It	J. Polonis
January 12, 2017	KHOS 92.1	Weather Mod Program Review	J. Jennings; J. Polonis

*Quarterly newsletters, "The Karst Khronicle" are distributed through email to subscribers. (Feb 1, May 1, Aug 1, & Nov 1)

5.2 - The District participates in the West Texas Weather Modification Association for precipitation enhancement.

The District’s General Manager reports monthly to the Board of Directors on West Texas Weather Modification Association activities when applicable.

The 2017 Annual Report from the West Texas Weather Modification Association can be found on their website at http://wtwma.com/analysis_and_research.htm and in the District’s files. The 2017 Annual Report has not been published. When published, the General Manager will distribute to the Board. The 2017 monthly reports can be found here: http://wtwma.com/operations_page.htm.

Seeding Events in Sutton County:

DATE:	NUMBER OF FLARES:	NUMBER OF CLOUDS:
June 26, 2017	24 (+2 hygroscopic)	2
June 27, 2017	N/A	
July 5, 2017	4	6
July 17, 2017	16	3
August 4, 2017	4 (+2 hygroscopic)	2

Goal 6.0 – Addressing in a Quantitative Manner the Desired Future Conditions (DFC) of the Groundwater Resources (36.1071(a)(8))

The District covers part of the Edwards-Trinity (Plateau) Aquifer and is within Groundwater Management Area (GMA) 7. The Edwards-Trinity (Plateau) Aquifer is the largest aquifer not subdivided into multiple GMAs.

Total net drawdown for the Edwards-Trinity (Plateau)/ Pecos Valley Alluvium Aquifers are not to exceed an average of eight (8) feet in 2070, as compared with 2010 aquifer levels. Specifically for Sutton County, drawdown is not to exceed an average of six (6) feet.

Groundwater Management Area 7:

Groundwater Management Area 7: Meetings

DATE:	LOCATION:	PURPOSE:	NOTES:
February 16, 2017	Central Electric Co-Op – Fredericksburg	Joint Planning	Review of GAMS
March 23, 2017	TAMU Agrilife - San Angelo	Joint Planning	Action on DFCs
October 19, 2017	Central Electric Co-Op – Fredericksburg	Joint Planning	

Groundwater Management Area 7: Desired Future Conditions (DFC)

The District shall participate in the joint planning process in Groundwater Management Area (GMA) 7 as defined per TWC § 36.108, including establishment of Desired Future Conditions (DFCs) for management areas within the District. In its evaluation of potential DFCs, the District shall consider results from groundwater availability models, scientific reports, and the conditions of the aquifer.

Edwards-Trinity (Plateau)/ Pecos Valley Alluvium Aquifers:

Total net drawdown not to exceed an average of eight (8) feet in 2070, as compared with 2010 aquifer levels, with specific county drawdowns as follows:

COUNTY	GCD	DROWDOWN (feet)
Coke	Coke County UWCD	0
Crockett	Crockett County GCD	10
Ector	-	8
Edwards	Real-Edwards C&RD	2
Gillespie	Hill Country UWCD	5
Glasscock	Glasscock GCD	40
Irion	Irion County WCD	10
Kimble	Kimble County GCD	1
Menard	Menard County UWD	1
Midland	-	12
Pecos	Middle Pecos GCD	12
Reagan	Santa Rita UWCD	42
Real	Real-Edwards C&RD	4
Schleicher	Plateau UC&SCD	8
Sterling	Sterling County UWCD	7
Sutton	Sutton County UWCD	6
Taylor	-	0
Terrell	Terrell County UWCD	2
Upton	-	16
Uvalde	Uvalde County UWCD	2

Statewide Participation:

The District participates from time to time, as appropriate, in local and statewide events where it is beneficial to the District's goals and mission. The District participated in these statewide events in 2017 listed below:

DATE	LOCATION	TITLE	ATTENDEE	NOTES
01/06/2017	San Angelo	Dr. Ward Field Trip	M. Allen J. Polonis	A day with the Edwards-Trinity
01/26/2017	Austin	TAGD Business Meeting	M. Allen J. Polonis	
02/02/2017	Big Spring	Region F Meeting	M. Allen J. Polonis	
03/21/2017	Austin	Legislative Comm – TAGD	M. Allen	
03/22/2017	Austin	Water Day & Capitol	M. Allen	
03/31/2017	San Angelo	Legislative Consultant	J. Polonis	Discussed significant bills with Bob Turner
05/04/2017		Aquifer Conference	M. Allen	
06/01/2017	Austin	TAGD Business Meeting	M. Allen J. Polonis	
07/13/2017	Menard - Sonora	4-H Water Ambassadors	M. Allen	Travel to Caverns of Sonora
07/20/2017	Big Spring	Region F Meeting	M. Allen J. Polonis	
08/16/2017	Midland	TWDB – Brackish GW Stakeholder Meeting	M. Allen J. Polonis	
08/28-31	San Marcos	TAGD Groundwater Summit	M. Allen J. Polonis	
10/26/2017	Junction	Upper Llano WWP Plan Meeting	M. Allen J. Polonis	
11/6/2017	Ft. Stockton	Leadership Training - TAGD	M. Allen E. Campbell	
11/16/2017	Big Spring	Region F Meeting	M. Allen J. Polonis	
12/01/2017	San Antonio	EAA Conference – Karst System	M. Allen J. Thomas	

Permits/Registrations Issued during 2017 Year:

DATE DRILLED:	TYPE:	OWNER:	USE:	DEPTH:	SWN:
2/8/2017	Exempt	Jones, Randall	domestic	300	55-30-313
1/21/2017	Exempt	Dillard, Sue (Sam)	livestock	265	55-19-923
2/13/2017	Exempt	Joy, Vera Wade	livestock	360	55-46-303
2/11/2017	Exempt	Joy, Vera Wade	livestock	430	55-38-907
1/19/2017	Exempt	Reese, Don	domestic	385	55-19-631
1/23/2017	Exempt	George, Mark & Cindy	domestic	300	55-20-715
1/31/2017	Exempt	Spicer, Marshall	domestic	380	55-36-205
2/20/2017	Exempt	Price, Cindy	domestic	60	55-39-221
11/2/2016	Exempt	Love, Tracy	domestic	385	55-19-922
3/8/2017	Exempt	Lawrence, Ben	domestic	385	55-19-632
3/1/2017	Exempt	Holcomp, Richard	domestic	340	55-20-409
1/23/2017	Exempt	Mayer, Robert	livestock	200	55-18-717
3/31/2017	Exempt	Davis, Greg	domestic	50	55-39-326
3/3/2017	Exempt	Sutton-Edwards Ranch	domestic	410	55-45-802
3/17/2017	Exempt	Fisher, James	domestic	350	55-20-716
3/14/2017	Exempt	Doerre, Gary	domestic	260	55-34-811
4/16/2017	Exempt	Smith, Bruce	livestock	245	55-30-315
3/30/2017	Exempt	Doerre, Gary	domestic	220	55-34-812
4/23/2017	Exempt	Coffman, Kelsey	domestic	400	55-20-410
6/2/2017	Exempt	Lira-Gonzalez, Crispin	livestock	460	55-18-910
7/20/2017	Exempt	McAfee, William P.	livestock	400	55-20-717
7/28/2017	Exempt	Vandergriff, Rick	domestic	370	55-22-907
8/8/2017	Exempt	Gully, Russell	domestic	500	55-17-812
8/12/2017	Exempt	Mayer, John E.	livestock	320	55-26-210
10/12/2017	Exempt	McKee, Jay A.	domestic	380	55-28-216

DATE DRILLED:	TYPE:	OWNER:	USE:	DEPTH:	SWN:
10/20/2017	Non-Exempt	City of Sonora	Municipal #1	420ft	55-28-422
10/20/2017	Non-Exempt	City of Sonora	Municipal #2	420ft	55-28-423

PLUGGED WELLS IN 2017

COMPLETION DATE:	TYPE:	OWNER:	USE:	DEPTH:	SWN:	PLUG REPORT:
3/13/2017	Exempt	Doerre, Gary	Domestic	260	55-34-811	167254

Financial Reports and Annual Financial Audit:

Financial reports are given at each meeting of the District's Board of Directors. The Financial Audit of the District for FY 2017 was presented to the Board at the September 19, 2017 Board meeting and was approved on at the October 10, 2017 Board Meeting. The FY 2018 Budget is allocated as follows:

Sutton County UWCD 2018 Budget

