Annual Report

For

Fiscal Year 2023

Compiled by

Lynn Smith, General Manager

Report on District Activities for the Fiscal Year Ending September 30, 2023

Objective 1.1a — On four or more occasions, the District disseminated educational information relating to conservation practices for the efficient use of water resources.

See attached Meeting and Activity list. This performance standard was met.

Objective 2.1a — On four or more occasions, the District disseminated educational or informational materials directed toward preventing waste of water each year.

See attached Meeting and Activity list. This performance standard was met.

Objective 3.1a — On three or more occasions, the District manager attends RWPG meetings.

See attached Meeting and Activity list. Eight RWPG meetings were attended. This performance standard was met.

Objective 4.1 — Each year, the District will monitor five or more selected wells within the District for possible contamination problems which would jeopardize the integrity of the groundwater, by collecting samples for analysis.

Collected two surface water samples throughout the District to be tested at the City of Abilene Environmental Lab. No contamination was found. Collected an additional fourteen samples from wells throughout the District which were tested during the TWON event. Nitrates and coliform bacteria were found to be present in some wells. This performance standard was met.

Objective 5.1a — Provide for one or more weather stations that the District maintains to provide data collection to these cooperating agencies.

Worked with the West Texas Mesonet to provide five stations (Haskell, Seymour, Knox City, Truscott and Hefner). This performance standard was met.

Objective 5.2a — Provide for one or more on-line wells the District assists in the collection and dissemination of well levels.

Worked with the Texas Water Development Board to provide three online recorder wells that send water level data to the Water Data for Texas program website. This performance standard was met.

Objective 5.2b — Prepare a report reflecting the results of the water level monitor to the Board at the first quarterly meeting each fiscal year for a yearly comparison.

A report of water levels within the District was provided to the Board at their December 2022 regular meeting. This performance standard was met.

Objective 6.1a — On four or more occasions, the District disseminated educational information relating to conservation of water resources.

See attached Meeting and Activity list. This performance standard was met.

Objective 6.2a — Monitor water levels in five or more selected wells.

Measured water levels in twenty-five wells in monitoring survey. This performance standard was met.

Objective 6.2b — Prepare a report reflecting the results of the annual water level program to the Board at the first quarterly meeting each fiscal year for a yearly comparison of water level averages.

A report of the water level program was provided to the Board at their December 2022 regular meeting. This performance standard was met.

Objective 7.1a — The District's Annual Report will include a discussion of the District's permit and well registration and will evaluate the District's progress in achieving the Desired Future Conditions of the groundwater resources within the boundaries of the District and whether the District is on track to maintain the Desired Future Conditions estimates over the 50-year planning period.

Variations of data from county to county and drought and recharge conditions did not dictate changes in procedures. This performance standard was met.

Objective 7.2a — The District will annually measure the water levels in at least five monitoring wells within the District and will determine the five-year water level averages based on the measurements taken. The District will compare the five-year water level averages to the corresponding five-year increment of its Desired Future Conditions in order to track its progress in achieving the Desired Future Conditions.

Water levels were measured in twenty-five wells and an analysis of the water level trends was performed in the spring of 2023. This performance standard was met.

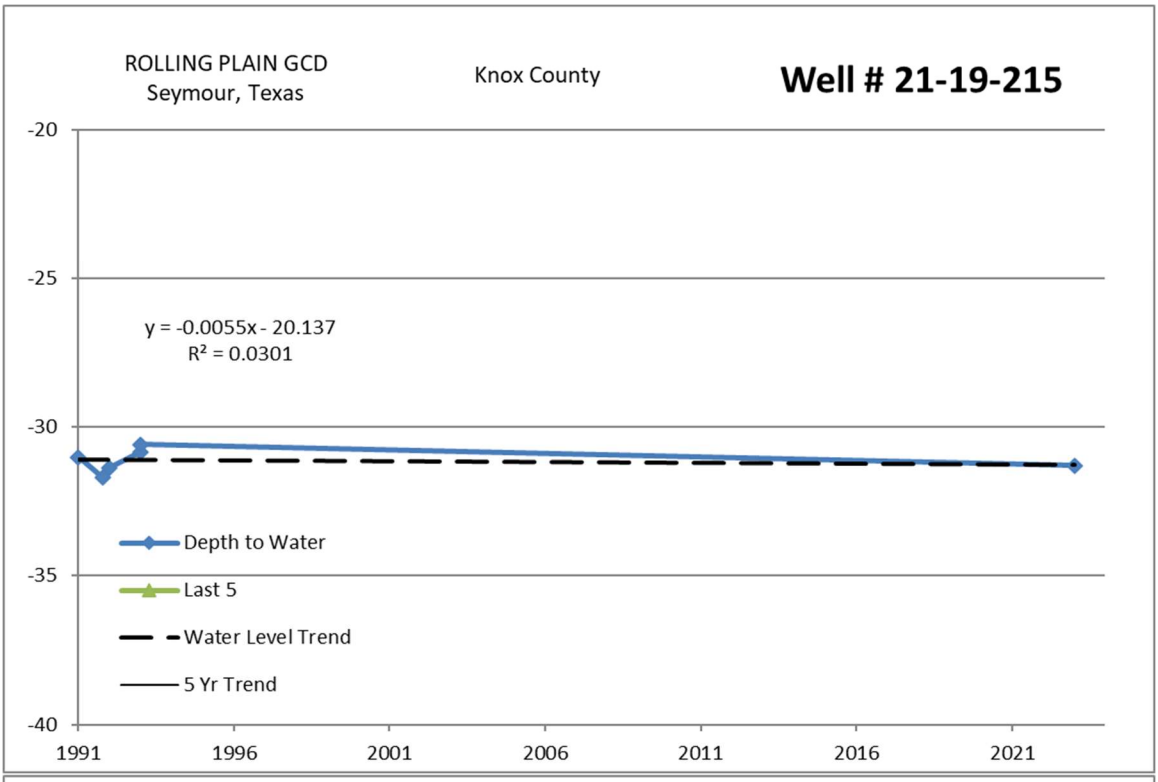
Objective 7.2b — The District's Annual Report will include the water level measurements taken each year to assess the District's progress towards achieving its Desired Future Conditions. Once the District has obtained water level measurements for five consecutive years and is able to calculate water level averages over five-year periods thereafter, the District will include a discussion of its comparison of water level averages to the corresponding five-year increment of its Desired Future Conditions in order to track its progress in achieving its Desired Future Conditions.

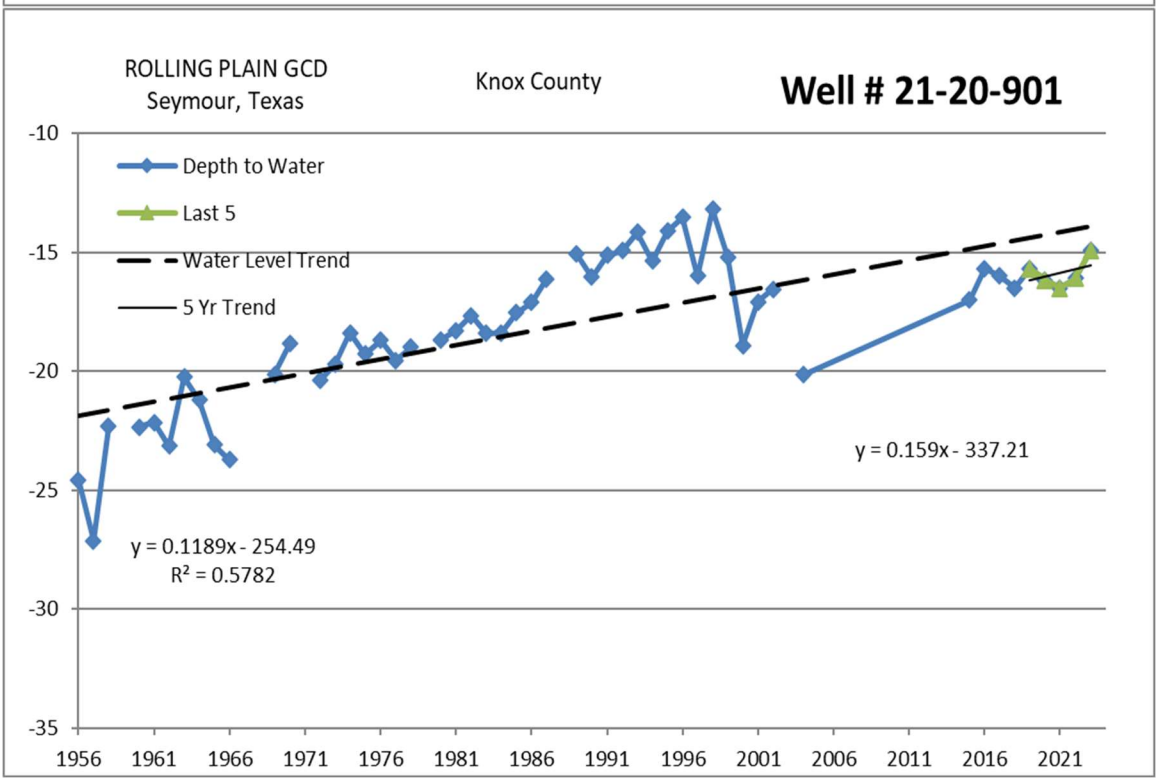
Water levels were measured in twenty-four wells and an analysis of the water level trends versus Desired Future Conditions was attempted and in most cases, was successful. Difficulties were encountered with obtaining wells with five complete years of consecutive measurements that were geographically diverse enough to be statistically relevant. The District has expanded its water level program and hired additional staff to assist with it. We believe this will provide better data in the future. As such, the District took actions which lead to this performance standard being met.

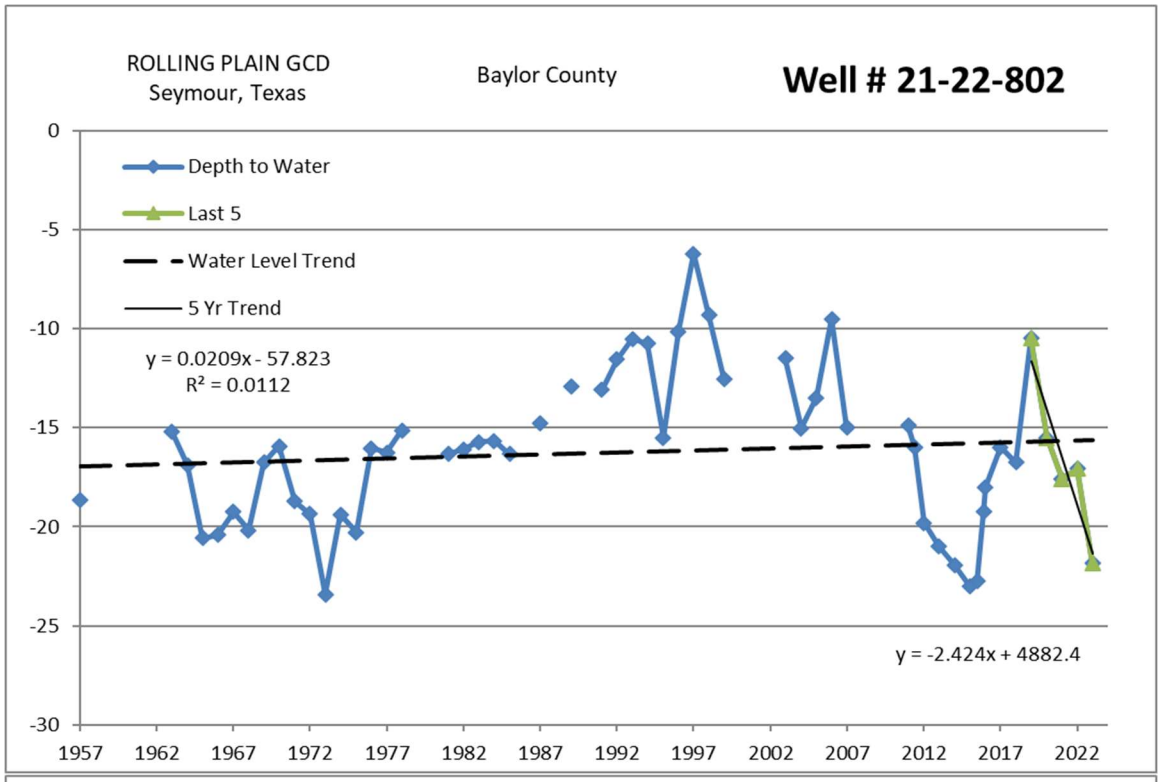
Date	Activity	Attendance (Min)
10/24/2022	TWCA Groundwater Committee	60
10/25/2022	Major Rivers to local schools	10
11/2/2022	Region G Meeting	45
11/17/2022	RRVA Meeting	45
12/2/2022	Sam Baker	3
1/10/2023	Justin Thompson BEG	2
2/22/2023	Region G Executive Committee	13
2/22/2023	Legis - Perry, Springer, Rogers, Frank	25
3/3/2023	TAGD Legislative Meeting	25
3/7/2023	TAGD Summit Committee	12
3/8/2023	Region G Meeting	75
3/9/2023	West TX MESONET MTG	45
3/9/2023	TAGD Meeting	60
3/10/2023	TAGD Legislative Meeting	20
3/17/2023	Haskell NRCS	10
3/17/2023	TAGD Legislative Meeting	20
3/21/2023	Munday Lions Club	13
3/23/2023	TAGD Summit Committee	8
3/24/2023	TAGD Legislative Meeting	21
3/29/2023	Region B Meeting	45
3/31/2023	TGWA Geoscience Seminar	30
4/7/2023	TAGD Legislative Meeting	20
4/11/2023	EPFF Meeting	3
4/14/2023	TAGD Legislative Meeting	15
4/20/2023	TAGD Summit Committee	9
4/20/2023	NGWA MAR Workgroup	25
4/21/2023	TAGD Legislative Meeting	17
4/23/2023	NGWA MAR Conference	25
4/24/2023	NGWA MAR Conference	80
4/25/2023	NGWA MAR Conference	80
4/26/2023	West TX MESONET MTG	18
4/28/2023	TAGD Legislative Meeting	20
5/4/2023	TAGD Summit Committee	8
5/5/2023	TAGD Legislative Meeting	20
5/11/2023	TWDB MAR Meeting	2
5/12/2023	TAGD Legislative Meeting	22
5/18/2023	NGWA MAR Workgroup	12
5/19/2023	TAGD Legislative Meeting	18
5/26/2023	TAGD Legislative Meeting	20
5/31/2023	Region G Meeting	50
6/6/2023	TAGD Meeting	80
6/7/2023	TAGD Meeting	80
6/15/2023	TAGD Summit Committee	9
6/20/2023	TWDB GMA Roundtable	15
6/21/2023	Region B Meeting	35
6/29/2023	TAGD Summit Committee	8

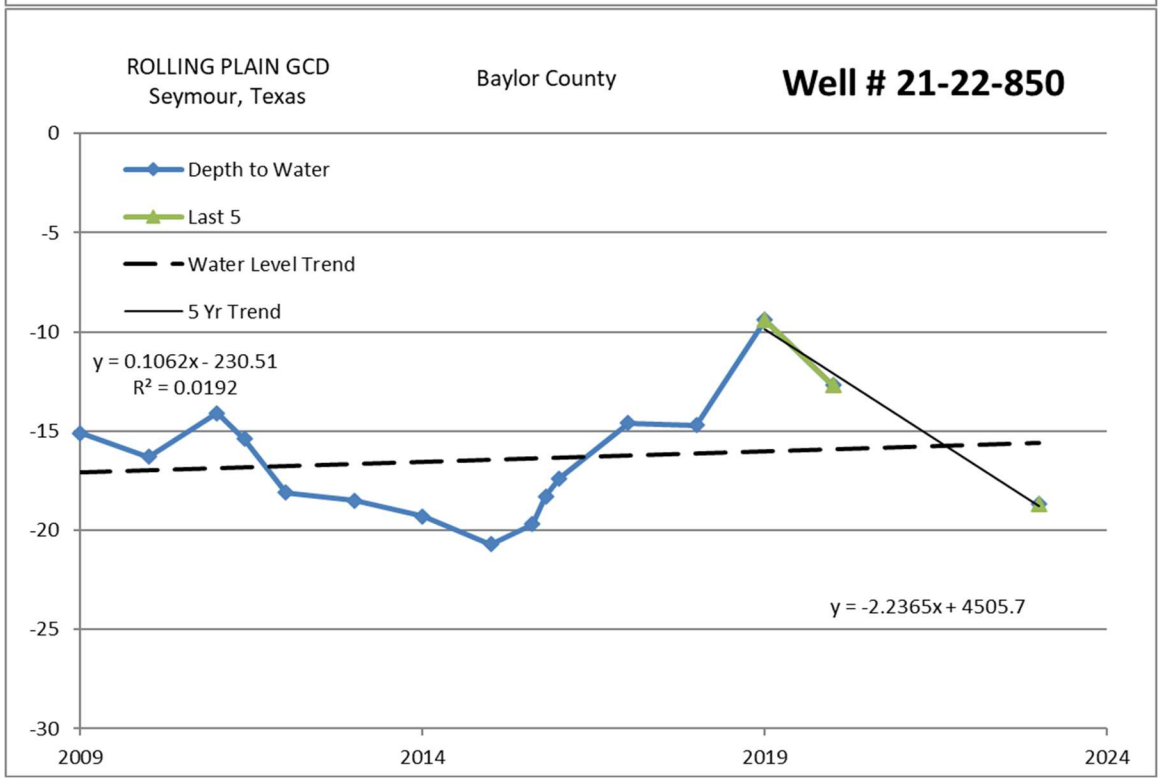
Date	Activity	Attendance (Min)
7/11/2023	Truth in Taxation	100
7/26/2023	POSGCD Meeting	6
7/27/2023	Region G Meeting	50
8/2/2023	Region B Meeting	40
8/2/2023	Seymour Lions Club	7
8/29/2023	Groundwater Summit	200
8/30/2023	Groundwater Summit	200
8/31/2023	Groundwater Summit	200
9/12/2023	Dunaway MAR Meeting	4
9/19/2023	GMA 6 Meeting	12
9/20/2023	Region G Meeting	50
9/21/2023	Haskell Rotary Club	12
9/25/2023	TWON Meeting	10
9/27/2023	TWON Meeting	10
9/27/2023	TAGD Summit Committee	8

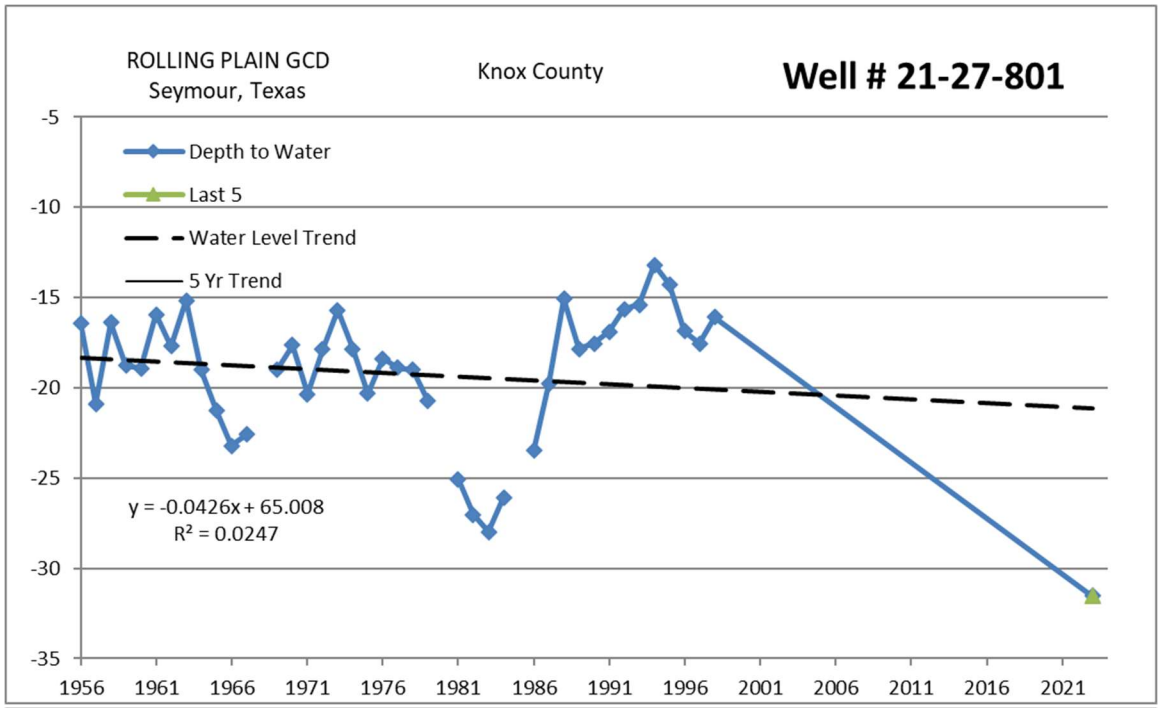
County	SWN	Owner	Latitude	Longitude	SWL GL (FT)	Date	Technician	Method
Baylor	2122802	Jim Walker	33.6328	-99.3008	21.83	11/22/2022	MM	E-Line
Baylor	2122850	Larry Miller	33.63196	-99.29656	18.65	11/22/2022	MM	E-Line
Baylor	2130202	Mrs. C. C. Rodden	33.6108	-99.3031	16.33	11/22/2022	MM	E-Line
Haskell	2134731	A. Holmes	33.3861	-99.8547	32.25	11/22/2022	MM	E-Line
Haskell	2134902	Melvin Lowery	33.376943	-99.759722	46.67	11/22/2022	MM	E-Line
Haskell	2135702	Hunter	33.3919	-99.7497	46.66	11/22/2022	MM	E-Line
Haskell	2135748	RPGCD	33.3917	-99.7489	46.94	11/22/2022	MM	E-Line
Haskell	2135801	Claude Hill	33.394167	-99.697778	48.86	2/15/2023	LS	E-Line
Haskell	2141818	Stewart Baker	33.25	-99.9183	48.5	11/22/2022	MM	E-Line
Haskell	2142258	Turner Cole	33.3475	-99.8208	54.33	11/22/2022	MM	E-Line
Haskell	2142320	Roy Tankersley	33.3744	-99.7761	42.67	11/22/2022	MM	E-Line
Haskell	2142460	K. Henry	33.2994	-99.8408	51.67	11/22/2022	MM	E-Line
Haskell	2150402	Joe W. Cloud	33.191388	-99.837221	27.33	11/22/2022	MM	E-Line
Haskell	2150436	John Behringer	33.1872	-99.8536	29.67	11/22/2022	MM	E-Line
Haskell	2151704	City of Haskell #2	33.154722	-99.733054	12.75	11/22/2022	MM	E-Line
Haskell	2151801	City of Haskell N Parish	33.1439	-99.7081	32.58	11/22/2022	MM	E-Line
Knox	2119215	Gilliland ISD	33.730924	-99.681093	31.31	2/15/2023	LS	E-Line
Knox	2120901	A. K. Boyd	33.641944	-99.511111	14.92	11/22/2022	MM	E-Line
Knox	2127801	Frank Feissel	33.504445	-99.687222	31.53	2/15/2023	LS	E-Line
Knox	2127904	Herring	33.5264	-99.6319	24.75	11/22/2022	MM	E-Line
Knox	2134448	NRCS	33.44444	99.86472	21.98	11/22/2022	MM	E-Line
Knox	2135102	H. H. Partridge	33.473611	-99.737778	42.02	2/15/2023	LS	E-Line
Knox	2135201	Joe Voss	33.460555	-99.694721	45	11/22/2022	MM	E-Line
Knox	2135301	Tony Hobert	33.476389	-99.625278	33.59	2/15/2023	LS	E-Line
Knox	2136243	G. Tidwell	33.4686	-99.545	37.14	11/22/2022	MM	E-Line


ROLLING PLAIN GCD
Seymour, Texas
Knox County
Well # 21-19-215
-20
-25
-30
-35
-40
y = -0.0055x - 20.137
R² = 0.0301
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
1991
1996
2001
2006
2011
2016
2021


ROLLING PLAIN GCD
Seymour, Texas
Knox County
Well # 21-20-901
-10
-15
-20
-25
-30
-35
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = 0.1189x - 254.49
R² = 0.5782
y = 0.159x - 337.21
1956
1961
1966
1971
1976
1981
1986
1991
1996
2001
2006
2011
2016
2021


ROLLING PLAIN GCD
Seymour, Texas
Baylor County
Well # 21-22-802
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = 0.0209x - 57.823
R² = 0.0112
y = -2.424x + 4882.4
0
-5
-10
-15
-20
-25
-30
1957
1962
1967
1972
1977
1982
1987
1992
1997
2002
2007
2012
2017
2022


ROLLING PLAIN GCD
Seymour, Texas
Baylor County
Well # 21-22-850
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = 0.1062x - 230.51
R² = 0.0192
y = -2.2365x + 4505.7
0
-5
-10
-15
-20
-25
-30
2009
2014
2019
2024


ROLLING PLAIN GCD
Seymour, Texas
Knox County
Well # 21-27-801
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = -0.0426x + 65.008
R² = 0.0247
-5
-10
-15
-20
-25
-30
-35
1956
1961
1966
1971
1976
1981
1986
1991
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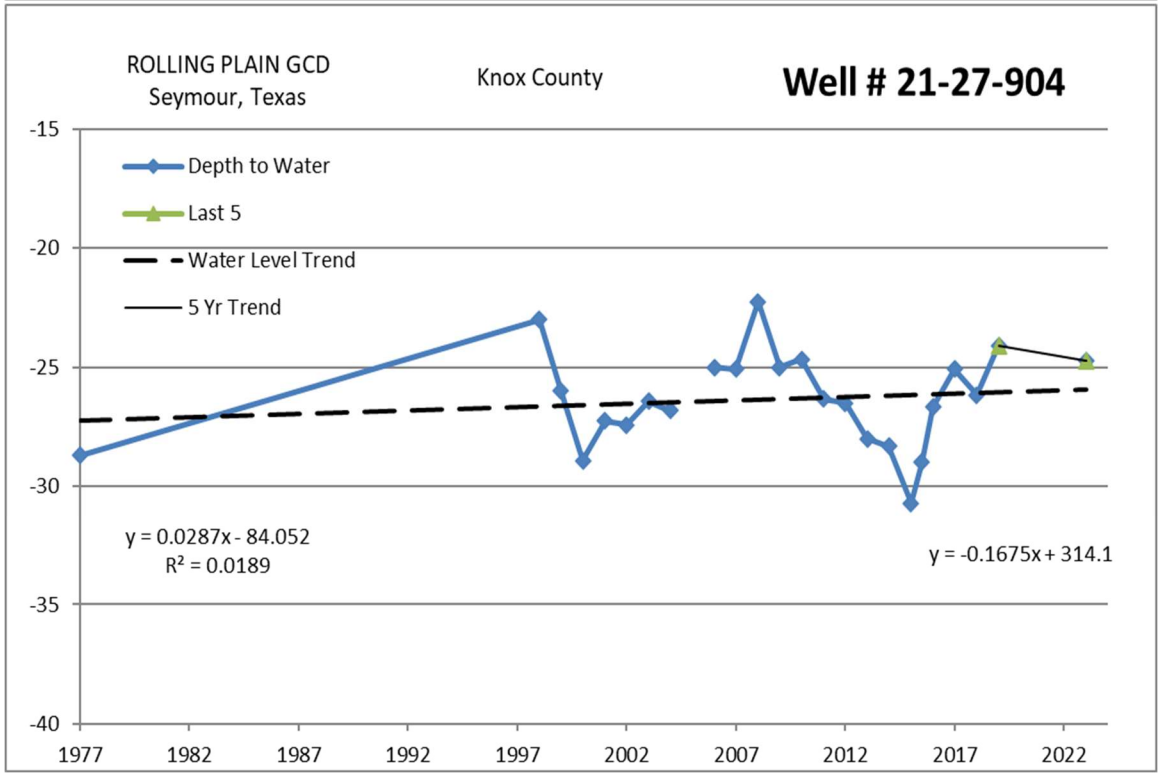
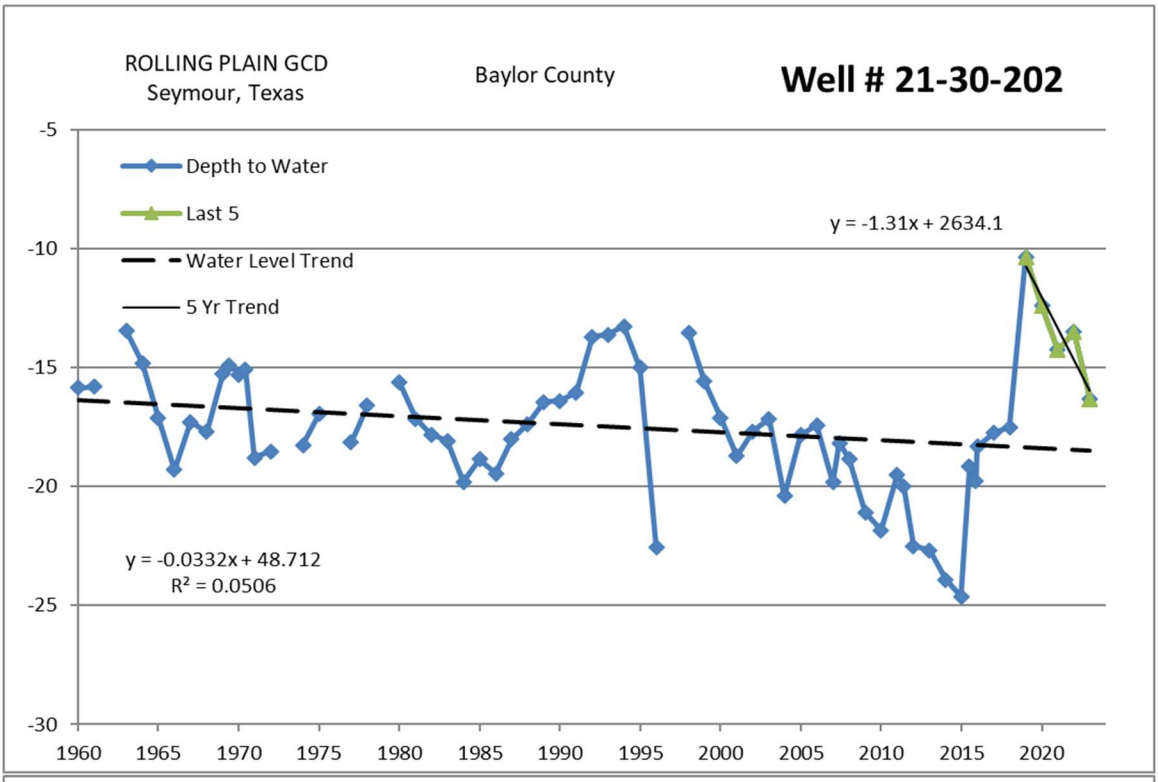
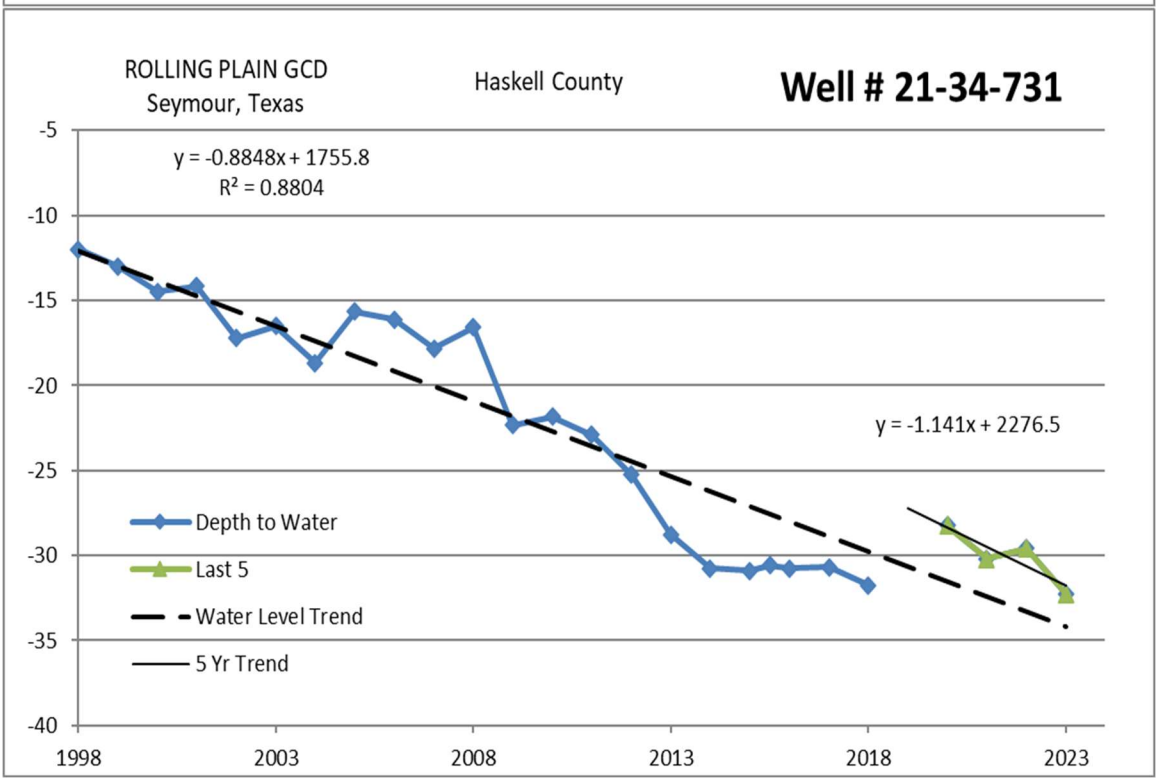
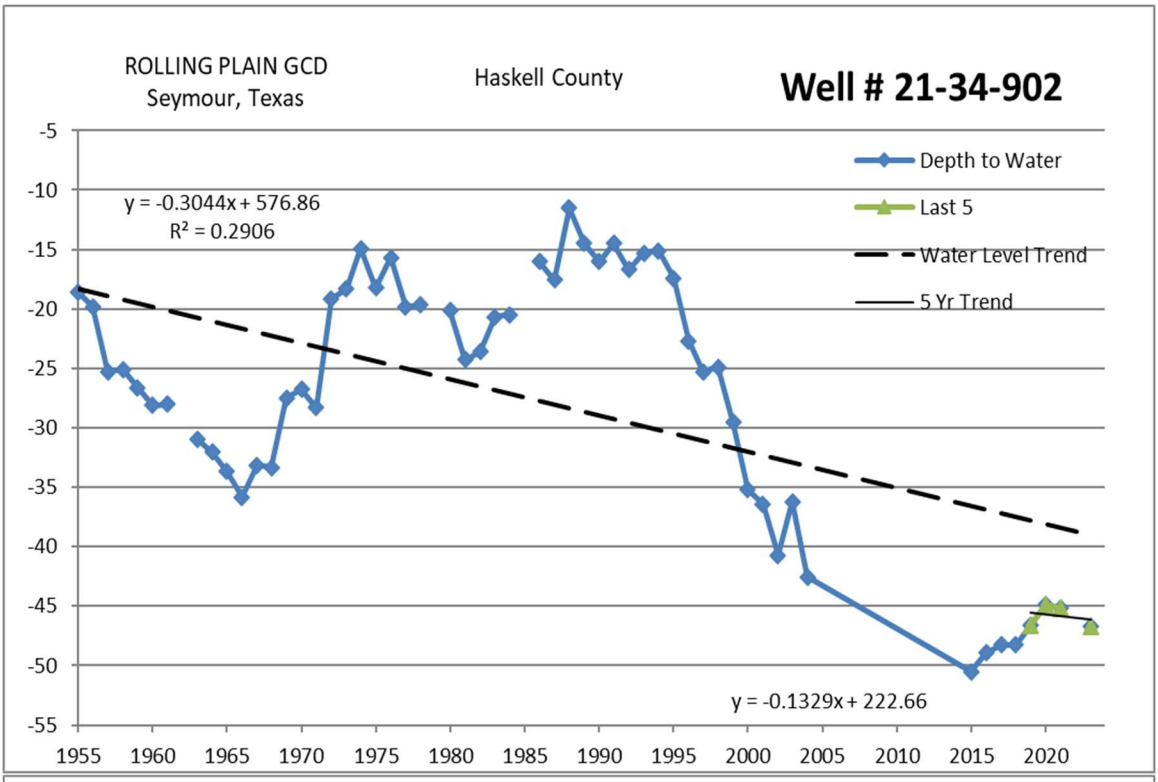
2001
2006
2011
2016
2021


ROLLING PLAIN GCD
Seymour, Texas
Knox County
Well # 21-27-904
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = 0.0287x - 84.052
R² = 0.0189
y = -0.1675x + 314.1
-15
-20
-25
-30
-35
-40
1977
1982
1987
1992
1997
2002
2007
2012
2017
2022


ROLLING PLAIN GCD
Seymour, Texas
Baylor County
Well # 21-30-202
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = -1.31x + 2634.1
y = -0.0332x + 48.712
R² = 0.0506
-5
-10
-15
-20
-25
-30
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020


ROLLING PLAIN GCD
Seymour, Texas
Haskell County
Well # 21-34-731
y = -0.8848x + 1755.8
R² = 0.8804
y = -1.141x + 2276.5
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
-5
-10
-15
-20
-25
-30
-35
-40
1998
2003
2008
2013
2018
2023


ROLLING PLAIN GCD
Seymour, Texas
Haskell County
Well # 21-34-902
y = -0.3044x + 576.86
R² = 0.2906
y = -0.1329x + 222.66
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
-55
1955
1960
1965
1970
1975
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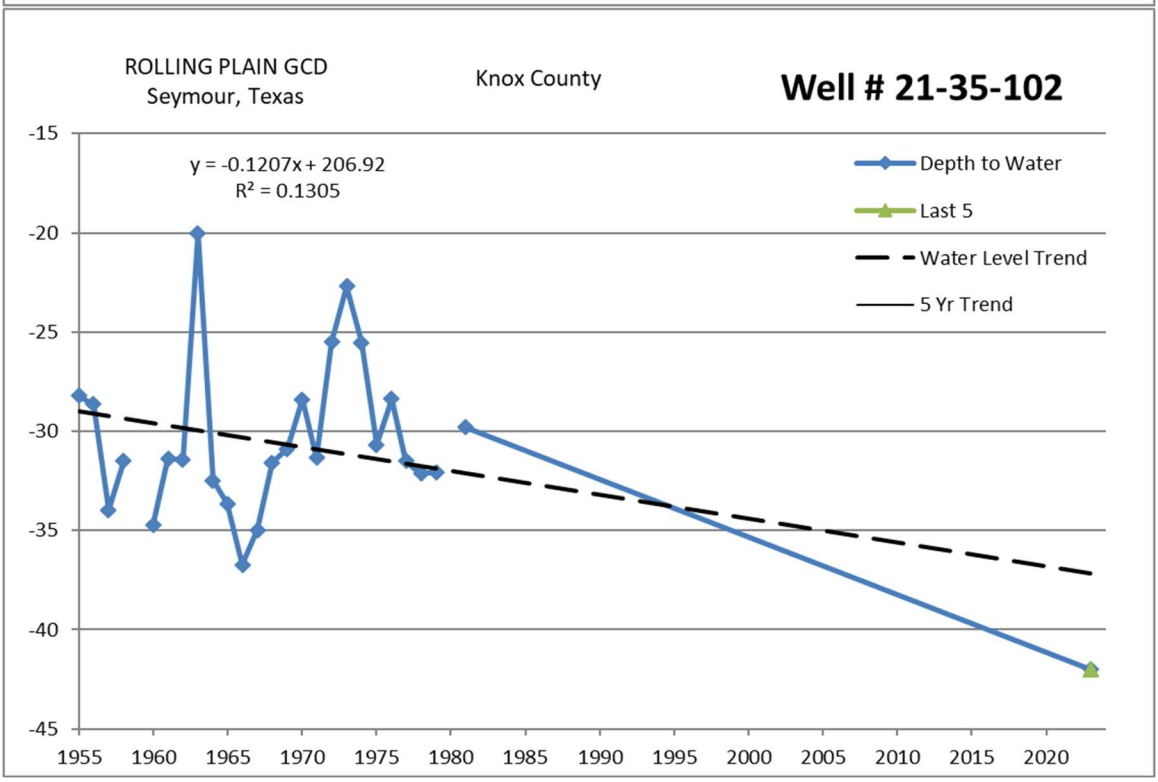
2005
2010
2015
2020


ROLLING PLAIN GCD
Seymour, Texas
Knox County
Well # 21-35-102
y = -0.1207x + 206.92
R² = 0.1305
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
-15
-20
-25
-30
-35
-40
-45
1955
1960
1965
1970
1975
1980
1985
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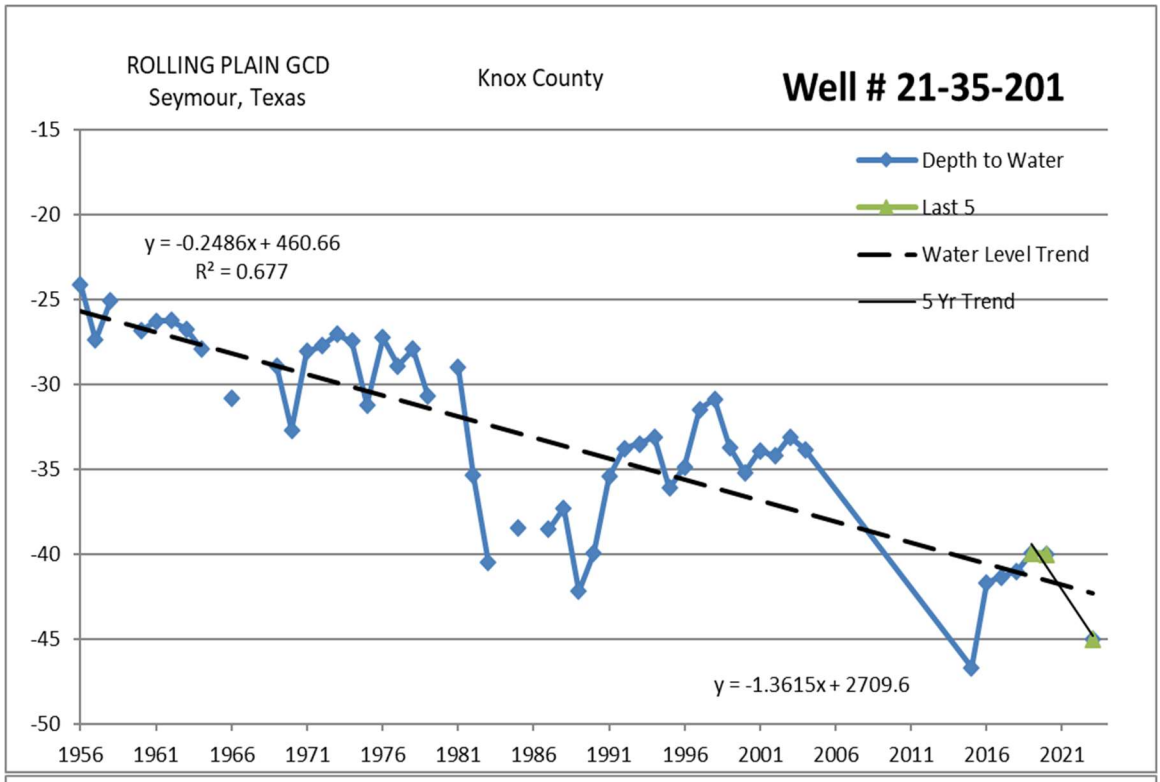
2005
2010
2015
2020


ROLLING PLAIN GCD
Seymour, Texas
Knox County
Well # 21-35-201
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = -0.2486x + 460.66
R² = 0.677
y = -1.3615x + 2709.6
-15
-20
-25
-30
-35
-40
-45
-50
1956
1961
1966
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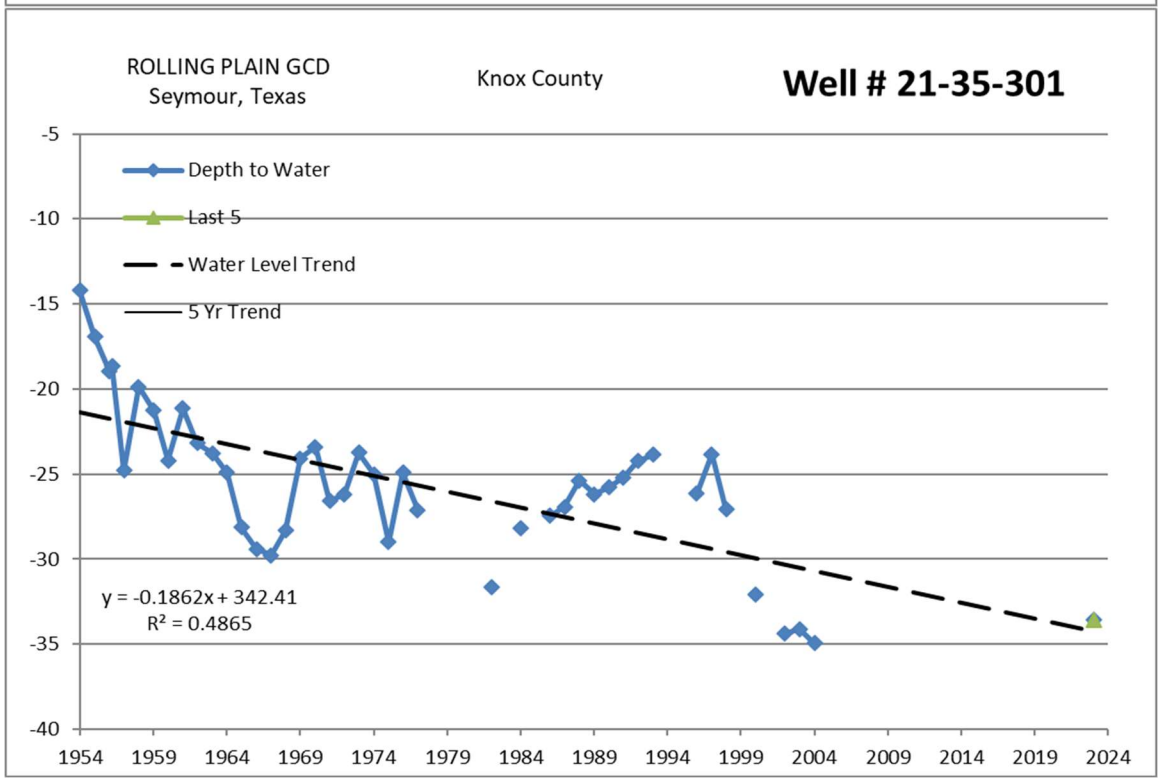
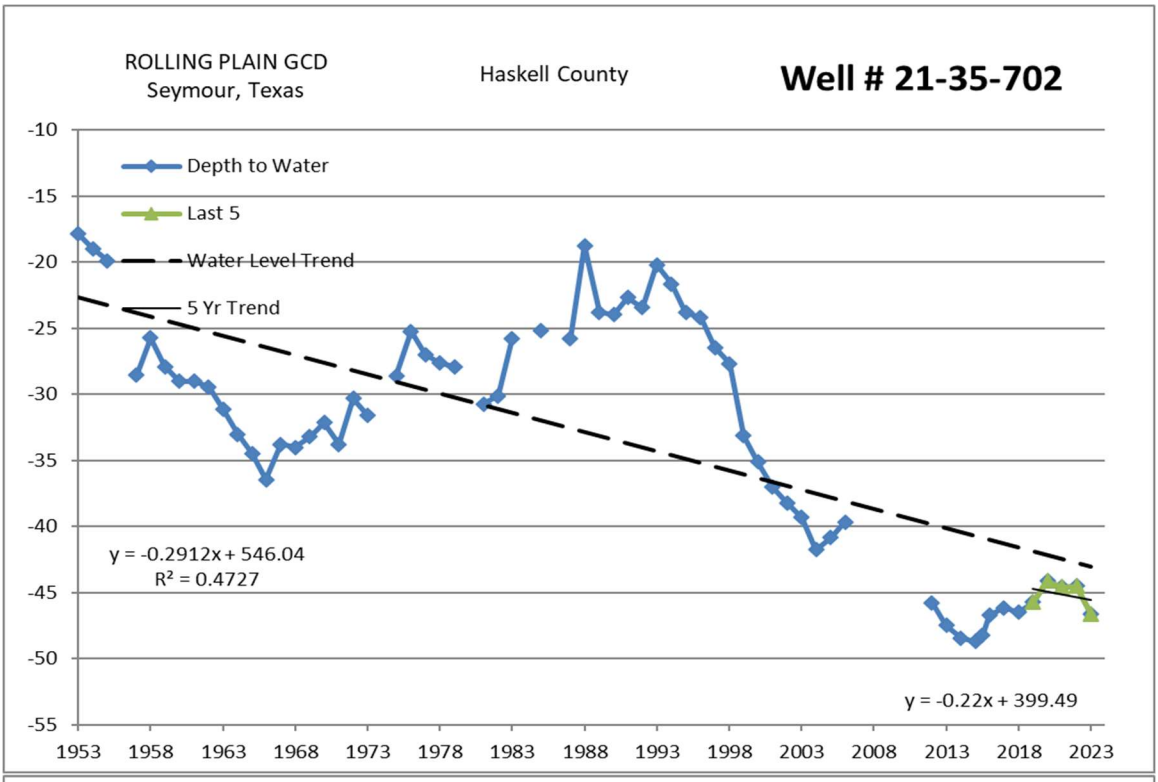
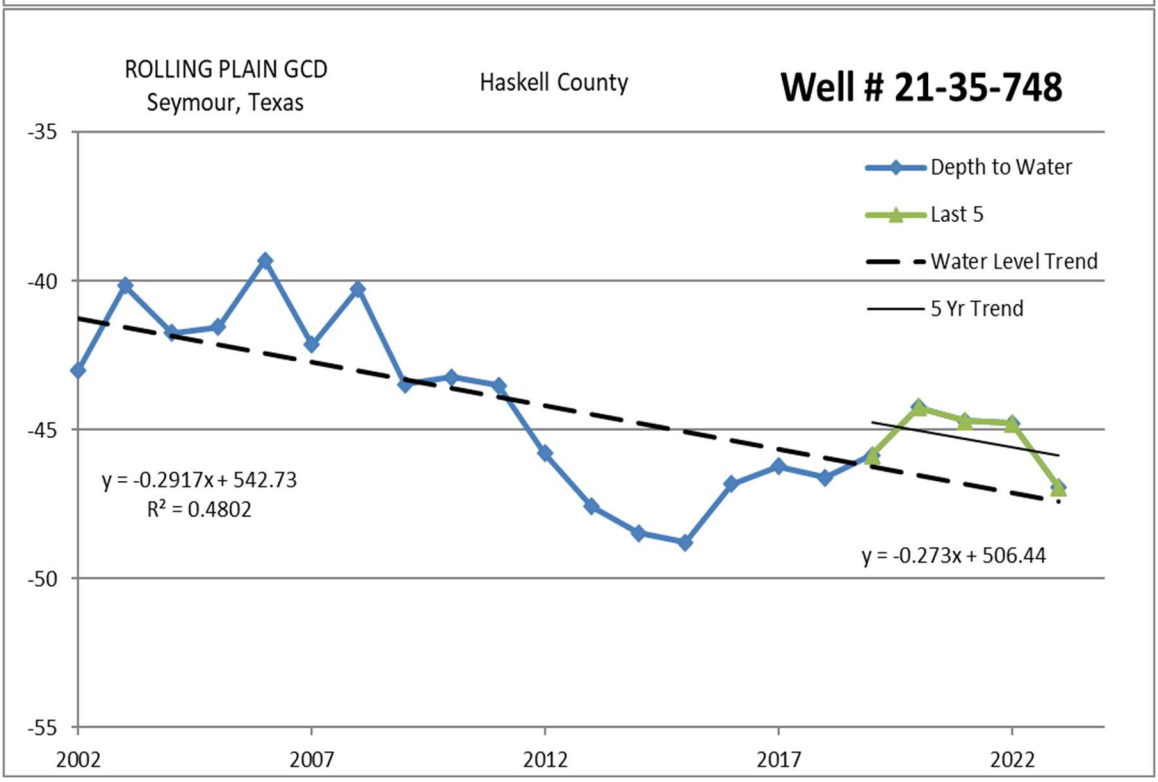
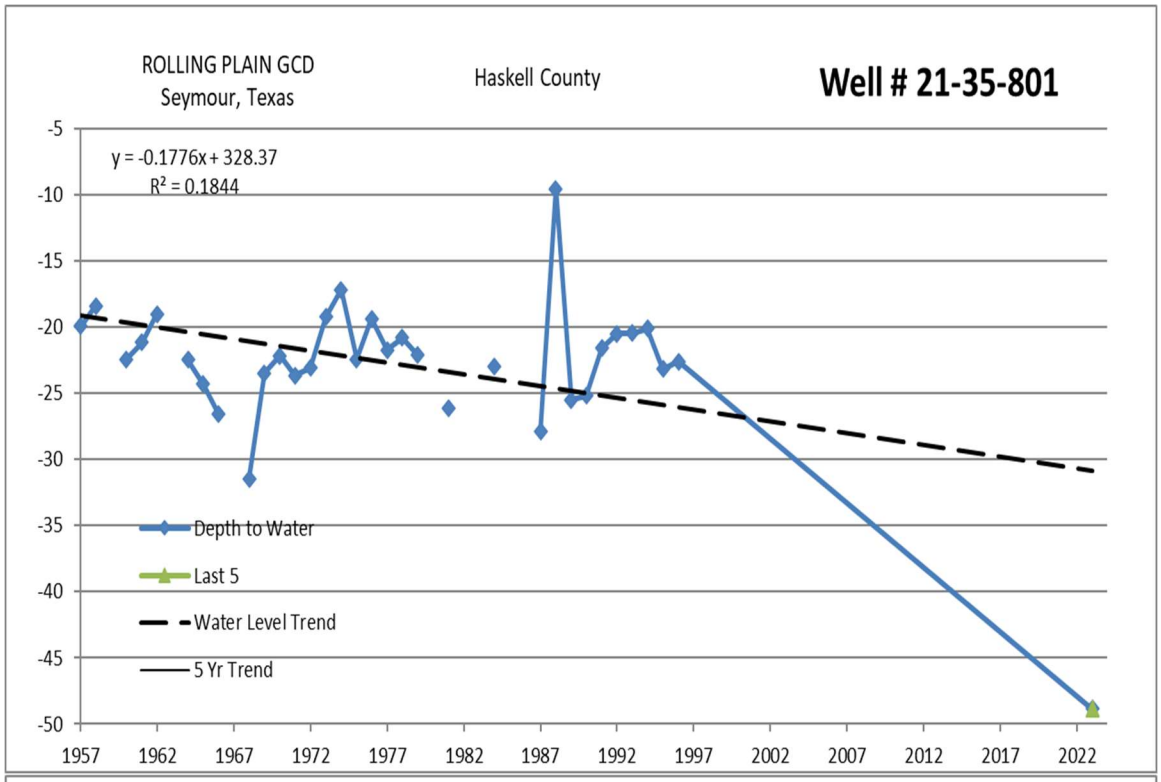
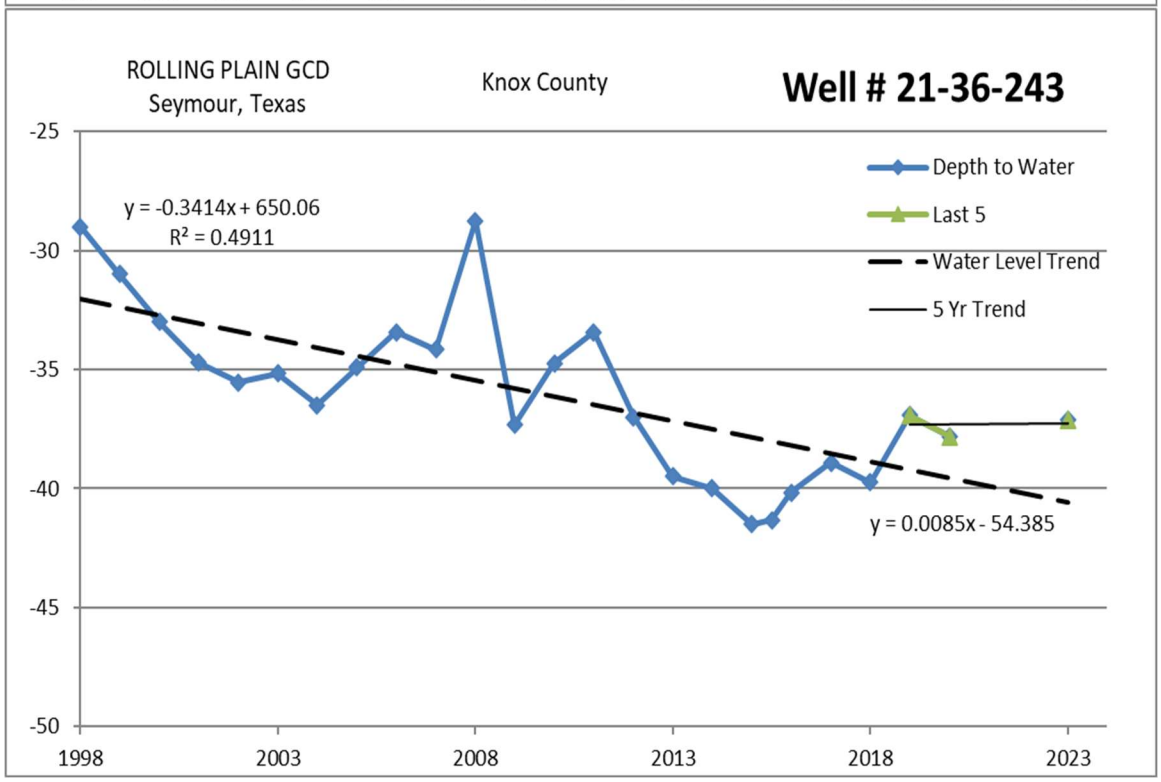
2006
2011
2016
2021

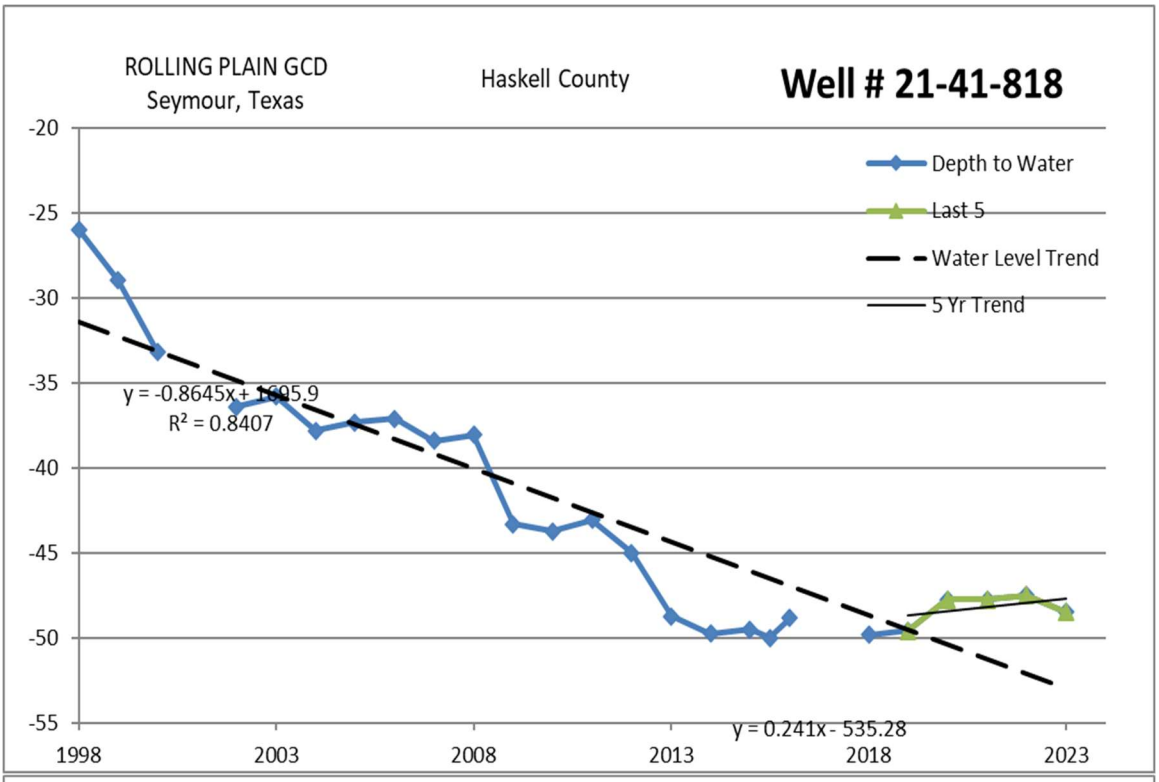

ROLLING PLAIN GCD
Seymour, Texas
Knox County
Well # 21-35-301
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = -0.1862x + 342.41
R² = 0.4865
-5
-10
-15
-20
-25
-30
-35
-40
1954
1959
1964
1969
1974
1979
1984
1989
1994
1999
2004
2009
2014
2019
2024

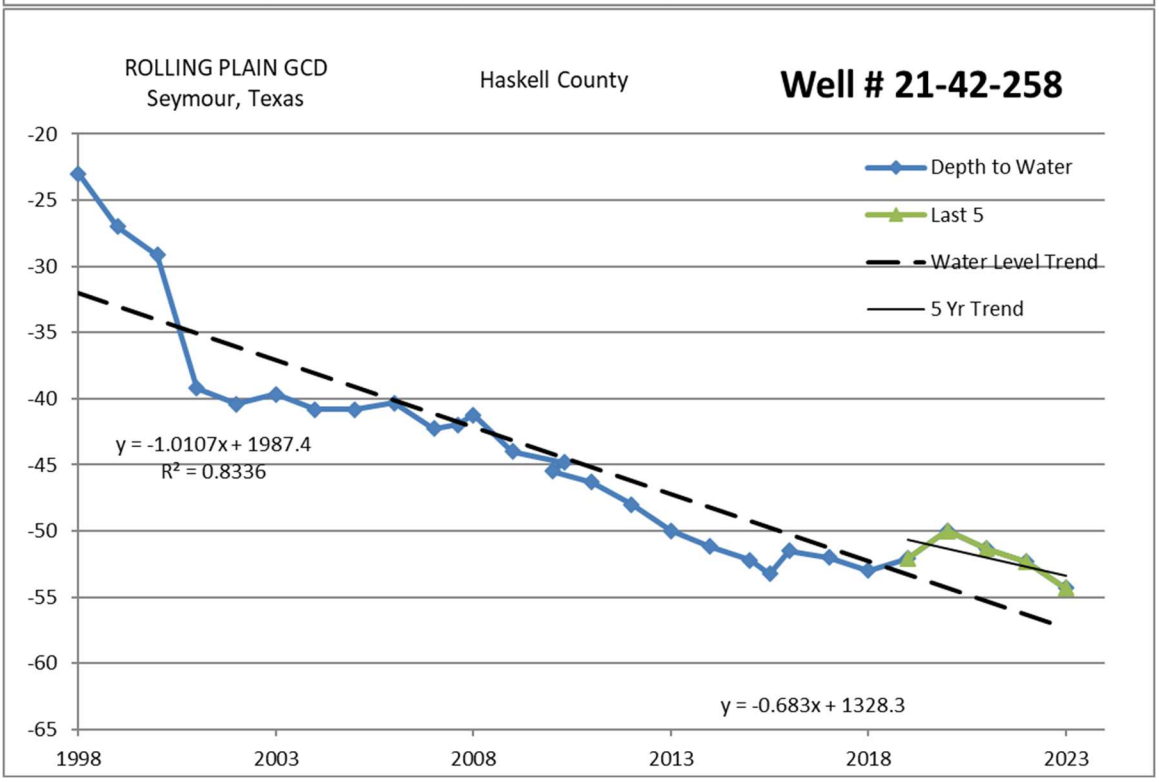

ROLLING PLAIN GCD
Seymour, Texas
Haskell County
Well # 21-35-702
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = -0.2912x + 546.04
R² = 0.4727
y = -0.22x + 399.49
-10
-15
-20
-25
-30
-35
-40
-45
-50
-55
1953
1958
1963
1968
1973
1978
1983
1988
1993
1998
2003
2008
2013
2018
2023

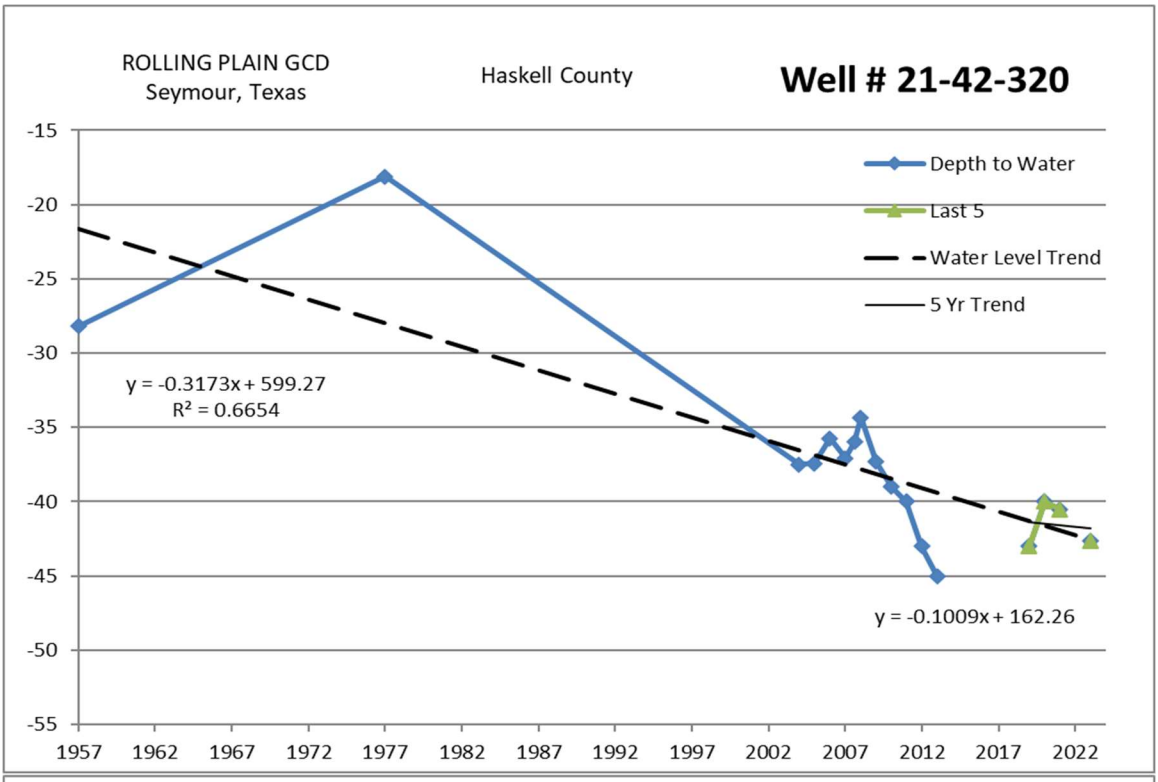

ROLLING PLAIN GCD
Seymour, Texas
Haskell County
Well # 21-35-748
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = -0.2917x + 542.73
R² = 0.4802
y = -0.273x + 506.44
-35
-40
-45
-50
-55
2002
2007
2012
2017
2022

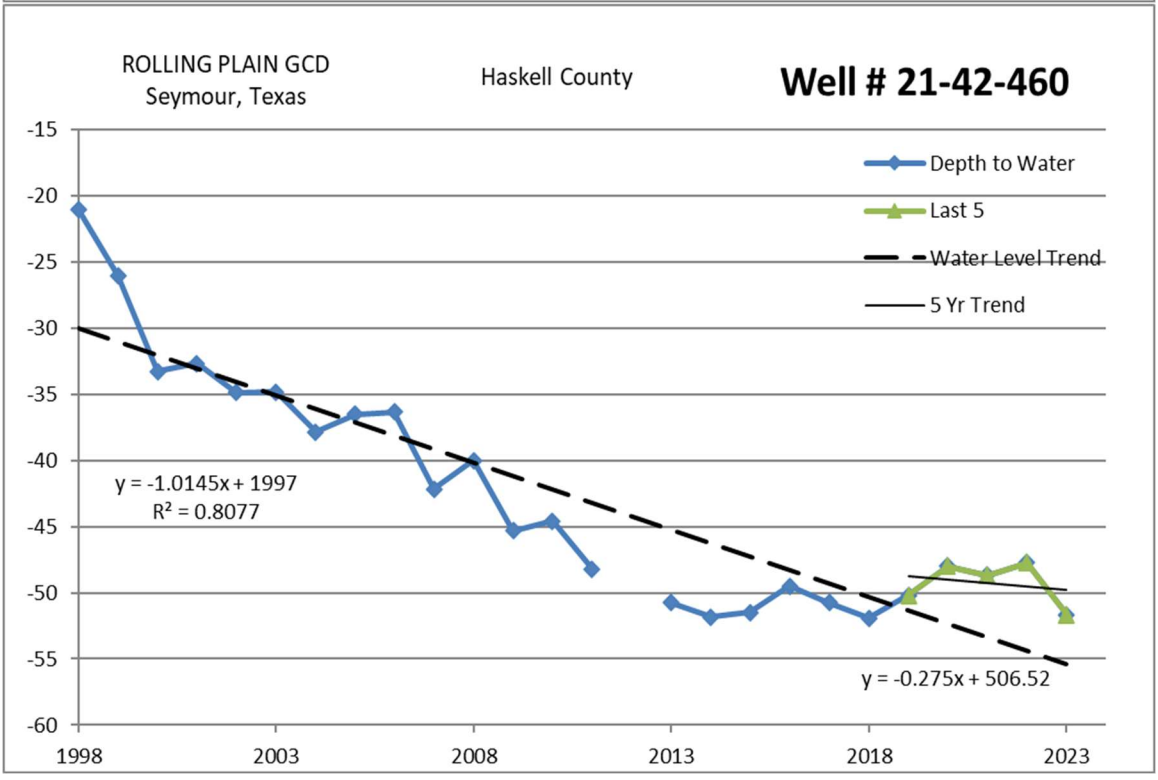

ROLLING PLAIN GCD
Seymour, Texas
Haskell County
Well # 21-35-801
y = -0.1776x + 328.37
R² = 0.1844
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
1957
1962
1967
1972
1977
1982
1987
1992
1997
2002
2007
2012
2017
2022
Depth to Water
Last 5
Water Level Trend
5 Yr Trend

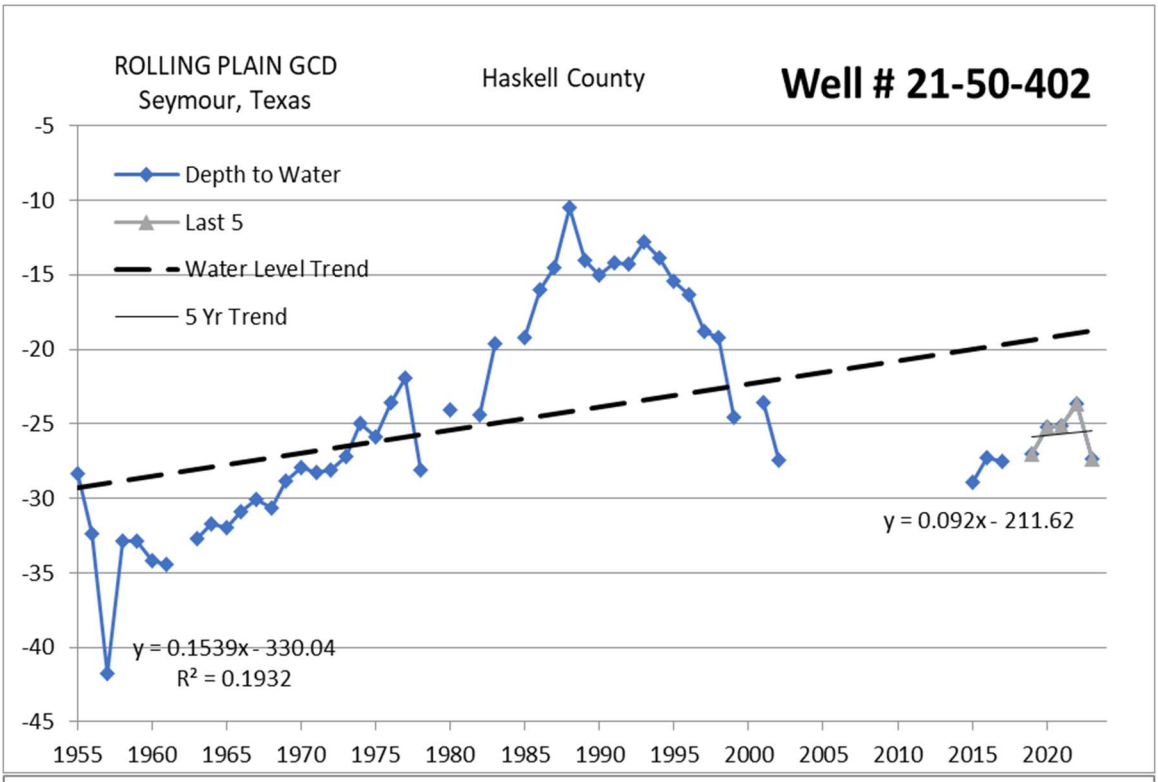

ROLLING PLAIN GCD
Seymour, Texas
Knox County
Well # 21-36-243
y = -0.3414x + 650.06
R² = 0.4911
-25
-30
-35
-40
-45
-50
1998
2003
2008
2013
2018
2023
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = 0.0085x - 54.385

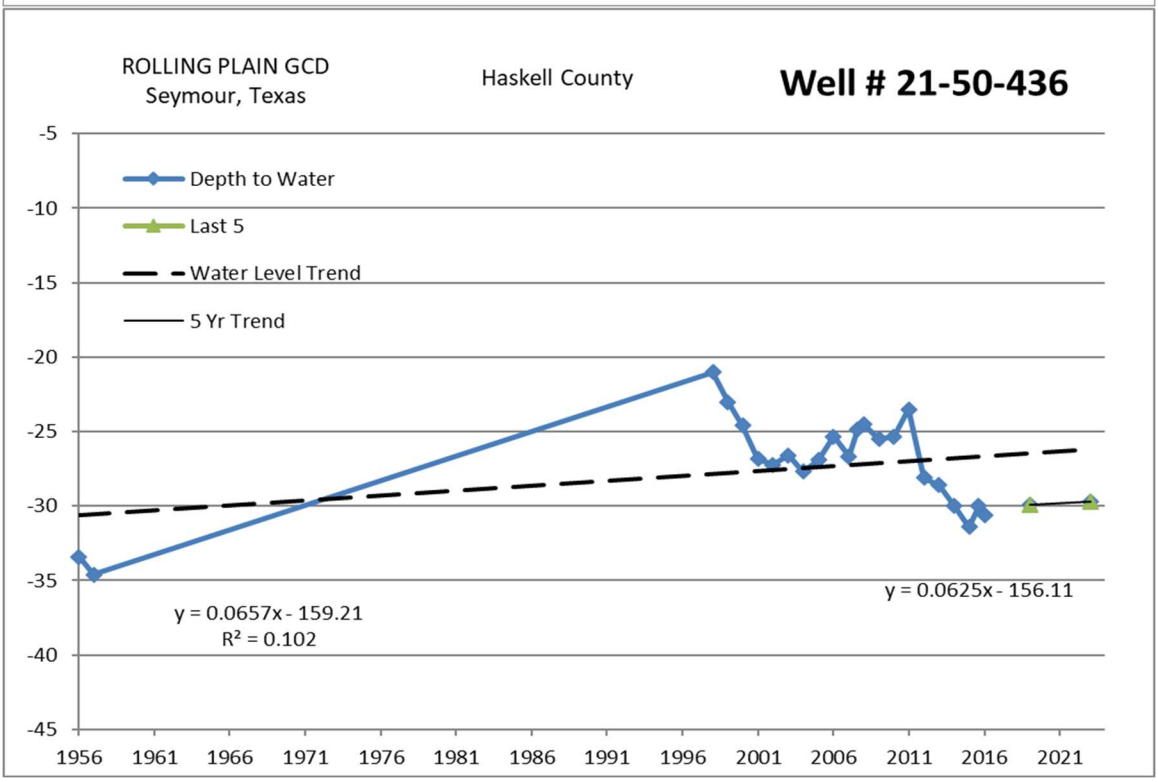

ROLLING PLAIN GCD
Seymour, Texas
Haskell County
Well # 21-41-818
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = -0.8645x + 1695.9
R² = 0.8407
y = 0.241x - 535.28
-20
-25
-30
-35
-40
-45
-50
-55
1998
2003
2008
2013
2018
2023

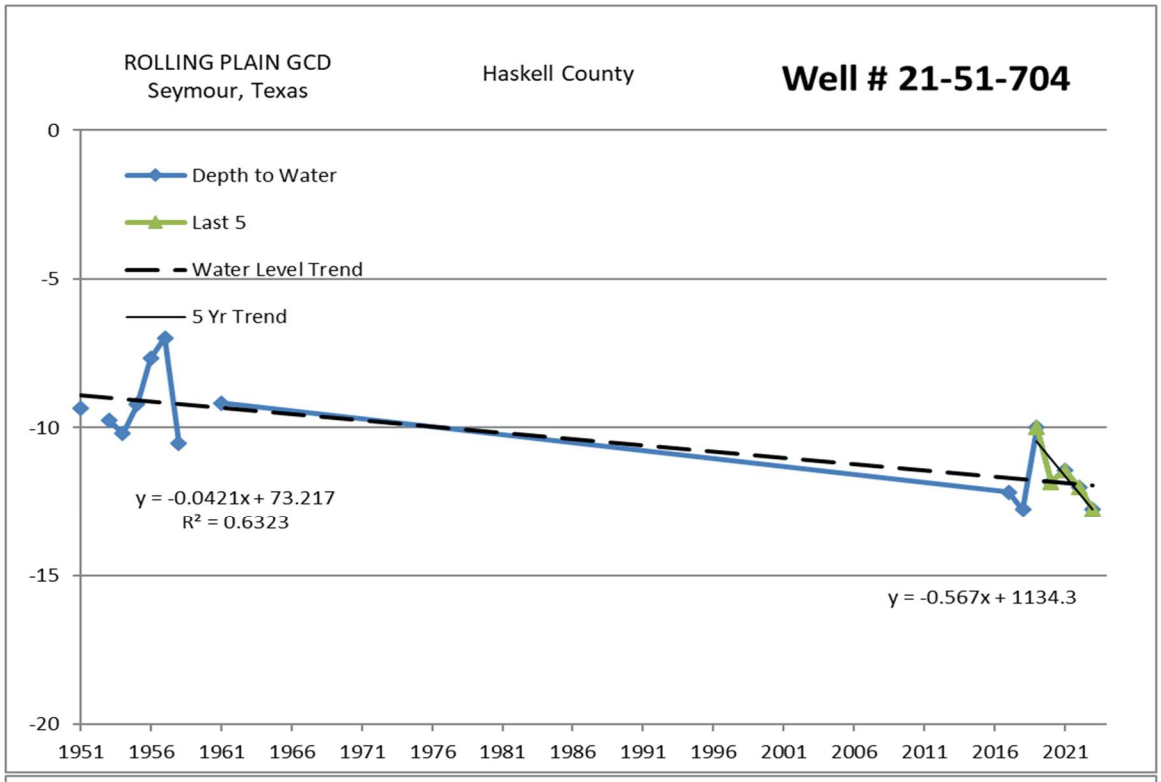

ROLLING PLAIN GCD
Seymour, Texas
Haskell County
Well # 21-42-258
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = -1.0107x + 1987.4
R² = 0.8336
y = -0.683x + 1328.3
-20
-25
-30
-35
-40
-45
-50
-55
-60
-65
1998
2003
2008
2013
2018
2023

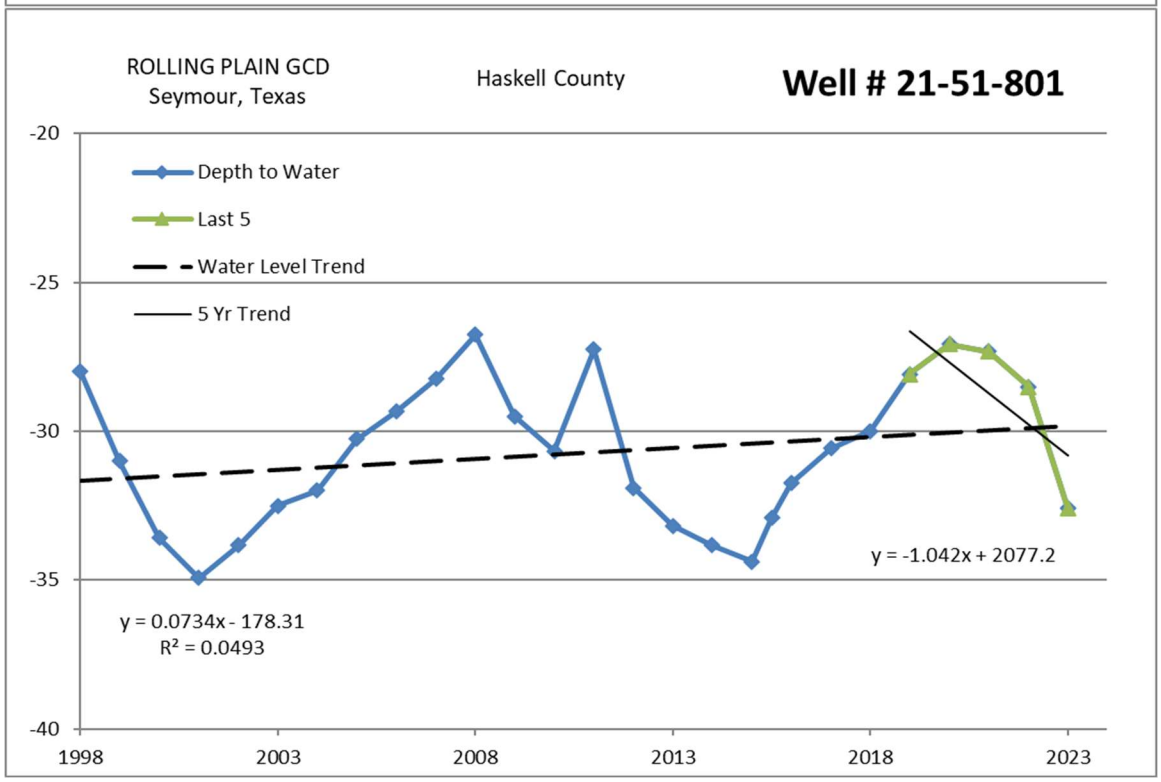

ROLLING PLAIN GCD
Seymour, Texas
Haskell County
Well # 21-42-320
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = -0.3173x + 599.27
R² = 0.6654
y = -0.1009x + 162.26
-15
-20
-25
-30
-35
-40
-45
-50
-55
1957
1962
1967
1972
1977
1982
1987
1992
1997
2002
2007
2012
2017
2022


ROLLING PLAIN GCD
Seymour, Texas
Haskell County
Well # 21-42-460
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = -1.0145x + 1997
R² = 0.8077
y = -0.275x + 506.52
-15
-20
-25
-30
-35
-40
-45
-50
-55
-60
1998
2003
2008
2013
2018
2023


ROLLING PLAIN GCD
Seymour, Texas
Haskell County
Well # 21-50-402
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = 0.092x - 211.62
y = 0.1539x - 330.04
R² = 0.1932
-5
-10
-15
-20
-25
-30
-35
-40
-45
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020


ROLLING PLAIN GCD
Seymour, Texas
Haskell County
Well # 21-50-436
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = 0.0625x - 156.11
y = 0.0657x - 159.21
R² = 0.102
-5
-10
-15
-20
-25
-30
-35
-40
-45
1956
1961
1966
1971
1976
1981
1986
1991
1996
2001
2006
2011
2016
2021


ROLLING PLAIN GCD
Seymour, Texas
Haskell County
Well # 21-51-704
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = -0.0421x + 73.217
R² = 0.6323
y = -0.567x + 1134.3
0
-5
-10
-15
-20
1951
1956
1961
1966
1971
1976
1981
1986
1991
1996
2001
2006
2011
2016
2021


ROLLING PLAIN GCD
Seymour, Texas
Haskell County
Well # 21-51-801
Depth to Water
Last 5
Water Level Trend
5 Yr Trend
y = 0.0734x - 178.31
R² = 0.0493
y = -1.042x + 2077.2
-20
-25
-30
-35
-40
1998
2003
2008
2013
2018
2023