



Mr. Chris Koos, Chair
Long Range Water Plan Steering Committee
Town of Normal
100 E. Phoenix
Normal, IL 61761

June 6, 2022

Dear Mayor Koos:

Enclosed are the hydrographs of water levels for the observation wells and river stages measured by the Illinois State Water Survey (ISWS) as part of the monitoring project conducted for the Long Range Water Plan Steering Committee through December 2021. The ISWS has monitored and maintained the observation well network since 1993. The network provides data which can be used to document changes in groundwater levels over time and was installed as part of a large aquifer assessment and modeling project that is described in Cooperative Groundwater Report 19 <https://www.ideals.illinois.edu/bitstream/handle/2142/35254/ISWSCOOP-19.pdf?sequence=2&isAllowed=y>.

A total of 51 measuring points were reported during the history of this project. Of those, 45 are active, while 6 points (SWS-6, MTH-3, MTH-4, MTH-5, MTH-14 and MTH-25) were retired due to damage and/or being abandoned. A total of 42 measurements are groundwater levels in observation wells; the other three are measurements of river stage. The wells fit into three categories, with either SWS, MTH or B designation.

- The SWS wells were installed as part of a regional assessment of the Sankt-Mahomet Aquifer by the Illinois State Water Survey (ISWS) in 1992. The project was funded by the Department of Energy and Natural Resources and the Illinois Department of Transportation's Division of Water Resources. The locations of the SWS wells are shown in Figure 1.
- Except for MTH-26 and MTH-27, the MTH wells were installed in 1993 as part of the comprehensive aquifer assessment funded by the Long Range Water Plan Steering Committee. MTH-26 was installed in 1994 as an aquifer test observation well and MTH-27 was installed in 1997 to verify the mapped geology in a particularly complicated region of the aquifer. The locations of the MTH wells are shown in Figure 1.
- The wells with B designation are located northwest of Bloomington near Evergreen Lake. These two wells were added in 2013 at the request of the City of Bloomington. The locations of the B wells are shown in Figure 2.
- Three of the measurements are of river stage along the Mackinaw River, denoted by RVR. The three river hydrographs (RVR-3, RVR-6, and RVR-7) are numbered to correspond to the MTH wells that are closest to them. For instance, RVR-3 is close to MTH-3.

In accordance with our agreement, measurements for all the wells were taken four times during 2021: February 19, May 12, August 18, and November 16. In addition, the areas surrounding the wells were mowed twice during the summer to keep the sites presentable. In addition to quarterly hand measurements, the City of Bloomington provided automated stations for 9 total wells in the network during 2013. In addition, the Northern Logan County Water Authority provided automated stations for 4 locations (included one nested well) in 2014.

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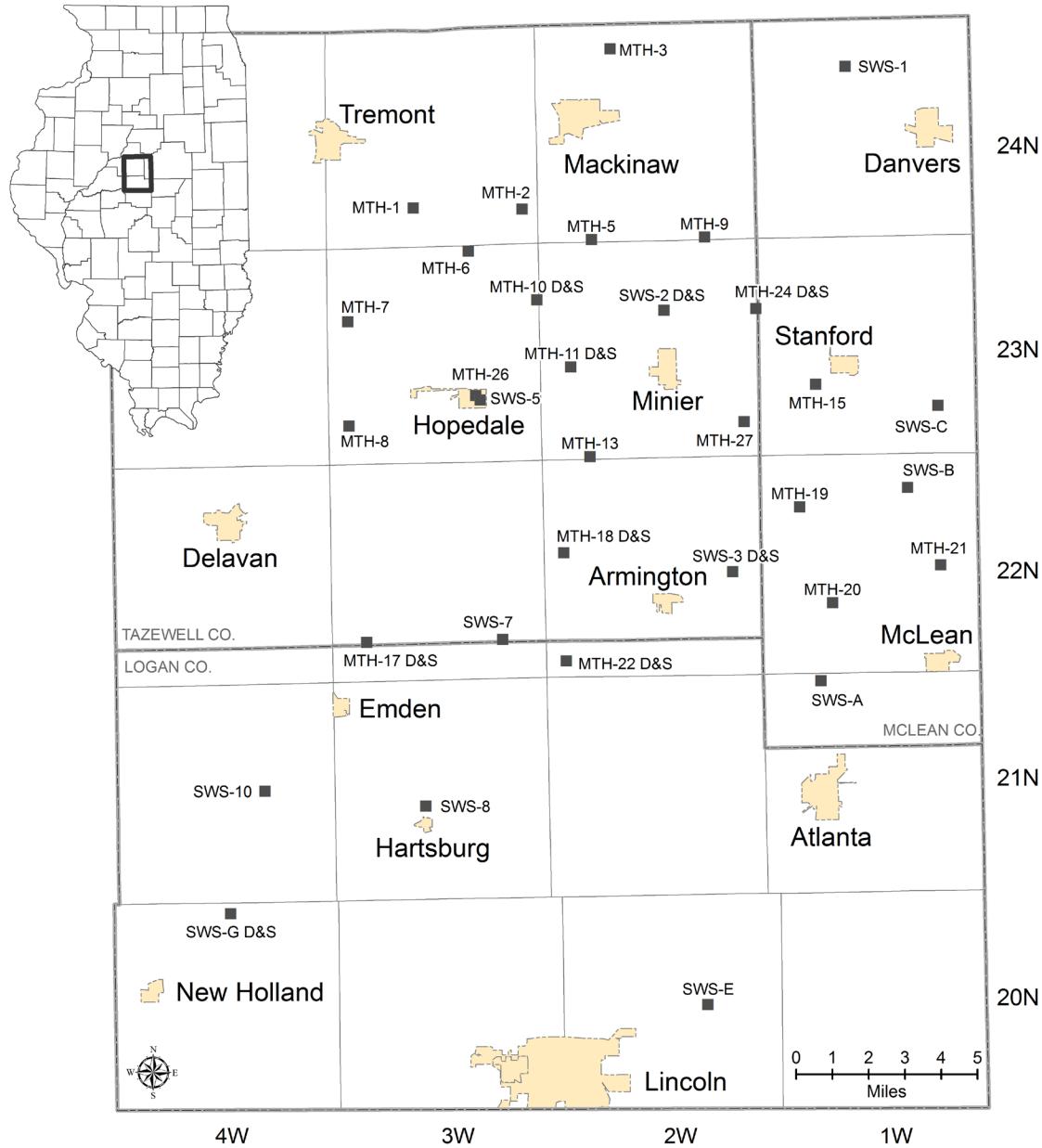


Figure 1. Location of Observation Wells

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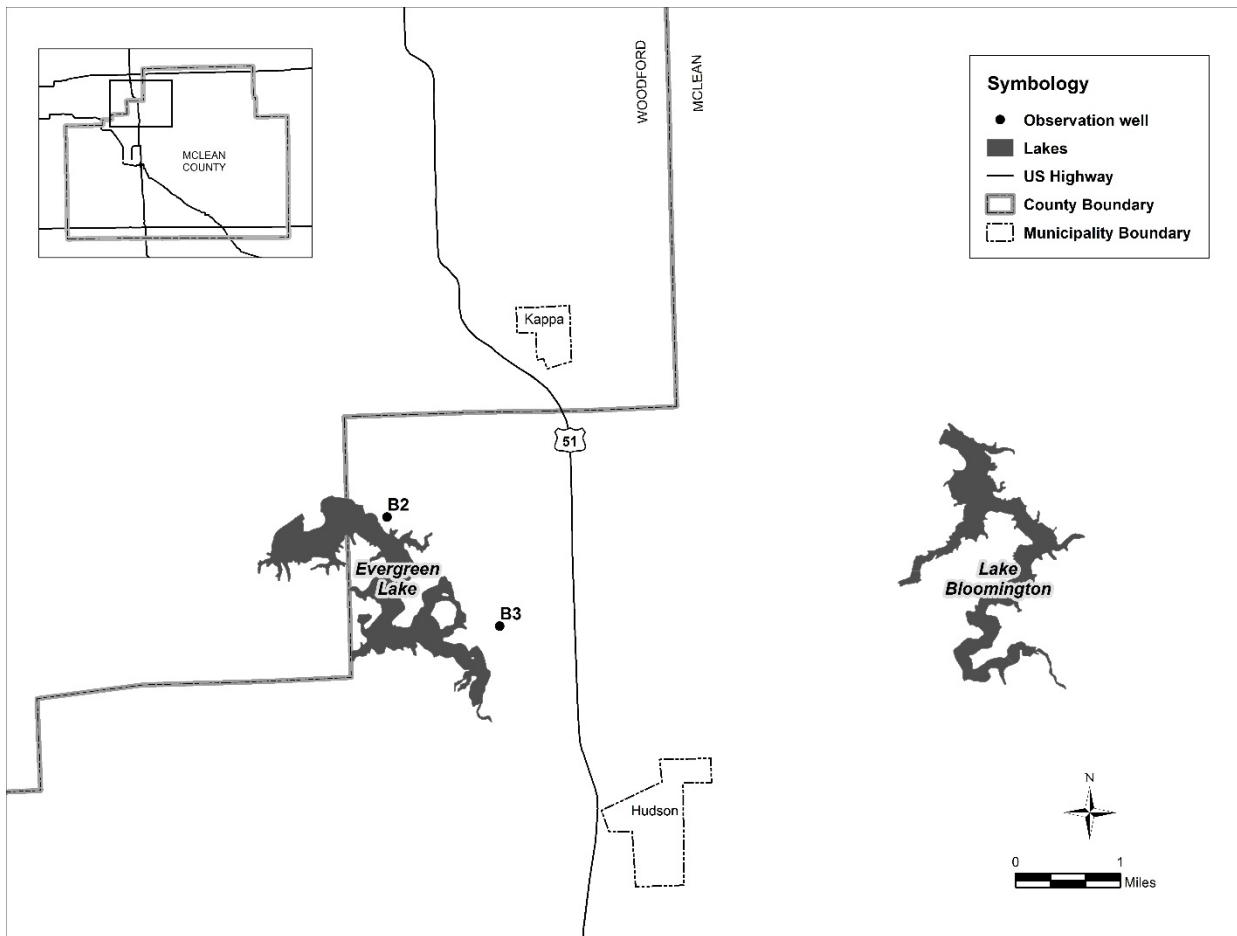


Figure 2. Location of Observation Wells near Evergreen Lake

Precipitation from 1993-2021

Tables 1 and 2 contain the updated precipitation data for 2021, along with all the historical precipitation data since the wells were installed. Table 1 shows the amount of precipitation above or below the average received monthly and Table 2 shows the total monthly amount of precipitation. 2021 was the ninth wettest year overall (the total precipitation for the year was 2.74 inches above the 30-year average of 39.60 inches). During 2021, three months displayed the highest variability in precipitation data from the 30-year average, June (wetter), October (wetter) and November (drier).

To understand any long-term temporal changes or patterns, the precipitation data over the course of this study are compared against the 30-year average from 1981-2010. Over the 29-year period of this study, average annual precipitation is 0.43 inches less than the historic 30-year average. Four months had less precipitation (averaged over this study period) compared to the historic 30-year average: July (0.54 inches), August (0.41 inches), November (0.67 inches), and December (0.42 inches). All other months had an increase in average precipitation (Figure 3). Despite this overall average decrease, 15 years had precipitation above the 30-year average and 14 years had precipitation below.



**Table 1. Monthly Precipitation Summaries for Lincoln, IL
Inches Above or Below the 30yr Average.**

30 Yr Ave (1981-2010)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
	1.93	1.82	2.60	3.61	4.16	4.32	5.06	3.92	3.21	3.08	3.25	2.64	39.60
1993 +/-	2.68	0.00	0.48	1.67	-2.80	3.12	2.08	0.50	3.40	0.43	0.05	-1.43	10.18
1994 +/-	-0.74	-0.90	-1.25	2.84	-1.19	-0.02	-2.14	-0.81	-0.96	-1.21	1.39	-0.38	-5.37
1995 +/-	1.68	-1.26	0.59	0.25	8.54	-0.94	-3.13	-0.06	-2.27	1.10	-1.86	-1.72	0.92
1996 +/-	-0.72	-1.25	-0.87	-1.12	1.76	-1.54	-0.20	-1.30	-1.42	-1.20	-0.32	-1.99	-10.17
1997 +/-	-0.20	1.22	0.64	-2.23	-1.06	-0.82	-3.79	1.35	1.46	-1.41	-0.41	-1.03	-6.28
1998 +/-	0.53	0.63	1.75	4.94	0.17	4.07	-2.00	1.73	-1.88	1.46	-1.36	-0.93	9.11
1999 +/-	-0.37	0.44	-1.44	2.05	0.30	0.91	-1.58	2.33	-1.12	-1.25	-2.95	-0.01	-2.69
2000 +/-	-1.14	-0.51	-0.35	0.21	-1.19	1.46	-1.01	-0.20	-0.24	-1.05	0.62	-1.24	-4.64
2001 +/-	0.45	1.57	-1.18	-1.38	-1.24	-1.30	-2.25	0.32	-1.10	2.73	-1.23	-0.90	-5.49
2002 +/-	0.56	0.41	-0.74	1.38	1.03	-1.93	2.73	4.66	-1.69	-0.85	-2.57	-1.02	1.97
2003 +/-	-1.38	-0.78	-0.54	-0.10	-0.84	-1.64	4.88	-1.04	1.29	-1.53	0.39	-0.83	-2.12
2004 +/-	-0.77	-1.44	1.64	-1.79	3.05	0.38	-1.76	0.42	-2.74	3.01	1.80	-1.07	0.73
2005 +/-	4.25	-0.15	-1.44	-2.18	-2.68	-3.14	-3.30	-0.46	-0.22	-0.80	0.73	-1.09	-10.48
2006 +/-	1.14	-1.43	0.31	1.24	-2.33	-1.92	3.21	-0.63	-0.44	-0.16	0.69	0.34	0.02
2007 +/-	0.36	0.48	0.13	-1.27	-1.55	-0.59	-1.40	-3.03	-0.28	0.34	-1.44	0.82	-7.43
2008 +/-	3.80	2.71	-0.45	-1.15	0.44	2.63	5.94	-3.15	7.09	-0.88	-2.14	1.79	16.63
2009 +/-	-1.36	0.81	1.78	2.03	0.27	0.64	-0.18	-0.65	-1.21	6.78	0.60	1.03	10.54
2010 +/-	-0.58	0.11	0.06	-0.90	0.45	6.47	-1.47	-0.01	2.17	-1.51	-0.71	-0.55	3.53
2011 +/-	-0.90	0.44	-1.20	1.73	-0.30	1.43	-2.04	-3.37	-0.90	-1.68	0.01	0.79	-5.99
2012 +/-	-0.76	-0.52	-1.40	-0.29	-2.18	-3.75	-3.69	-2.45	1.21	-1.16	-1.99	0.53	-16.59
2013 +/-	0.76	0.24	0.13	2.00	3.80	-1.07	-2.20	-2.05	-2.28	0.43	-2.04	-1.13	-3.41
2014 +/-	-0.14	0.92	-0.71	-0.62	-2.38	2.10	-0.28	2.21	4.41	1.33	-1.02	-1.19	4.63
2015 +/-	-0.54	-0.45	-1.07	-1.37	3.68	5.35	0.87	-2.84	1.47	-1.44	1.17	4.17	9.00
2016 +/-	-0.94	-0.57	1.23	-1.02	-0.91	-1.96	3.63	2.52	1.22	-1.44	-0.34	-1.28	0.14
2017 +/-	-1.17	-0.93	1.42	2.41	-0.69	-3.34	0.76	-1.73	-2.50	1.60	-0.76	-2.18	-6.11
2018 +/-	-1.20	2.97	1.67	-1.10	-1.17	-0.20	-1.20	-0.98	-0.92	3.19	-0.76	1.84	2.14
2019 +/-	1.28	0.66	2.78	1.77	2.68	0.85	-3.84	-0.44	1.12	1.66	-1.28	-1.15	6.09
2020 +/-	2.35	0.58	0.38	3.59	0.64	-2.04	-1.16	-2.48	-1.36	-2.05	-1.00	-1.61	-4.16
2021 +/-	1.62	-0.04	1.95	-1.61	-0.05	2.64	-1.12	-0.14	-0.95	3.66	-2.59	-0.63	2.74

Notes: 1993-2021 data compared against 1981-2010 30yr Average for the Lincoln, IL Station



Table 2. Monthly Precipitation Summaries for Lincoln, IL
Total Inches of Precipitation for the Year

30 Yr Ave (1981-2010)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1993 Total	4.61	1.82	3.08	5.28	1.36	7.44	7.14	4.42	6.61	3.51	3.30	1.21	49.78
1994 Total	1.19	0.92	1.35	6.45	2.97	4.30	2.92	3.11	2.25	1.87	4.64	2.26	34.23
1995 Total	3.61	0.56	3.19	3.86	12.70	3.38	1.93	3.86	0.94	4.18	1.39	0.92	40.52
1996 Total	1.21	0.57	1.73	2.49	5.92	2.78	4.86	2.62	1.79	1.88	2.93	0.65	29.43
1997 Total	1.73	3.04	3.24	1.38	3.10	3.50	1.27	5.27	4.67	1.67	2.84	1.61	33.32
1998 Total	2.46	2.45	4.35	8.55	4.33	8.39	3.06	5.65	1.33	4.54	1.89	1.71	48.71
1999 Total	1.56	2.26	1.16	5.66	4.46	5.23	3.48	6.25	2.09	1.83	0.30	2.63	36.91
2000 Total	0.79	1.31	2.25	3.82	2.97	5.78	4.05	3.72	2.97	2.03	3.87	1.40	34.96
2001 Total	2.38	3.39	1.42	2.23	2.92	3.02	2.81	4.24	2.11	5.81	2.02	1.74	34.11
2002 Total	2.49	2.23	1.86	4.99	5.19	2.39	7.79	8.58	1.52	2.23	0.68	1.62	41.57
2003 Total	0.55	1.04	2.06	3.51	3.32	2.68	9.94	2.88	4.50	1.55	3.64	1.81	37.48
2004 Total	1.16	0.38	4.24	1.82	7.21	4.70	3.30	4.34	0.47	6.09	5.05	1.57	40.33
2005 Total	6.18	1.67	1.16	1.43	1.48	1.18	1.76	3.46	2.99	2.28	3.98	1.55	29.12
2006 Total	3.07	0.39	2.91	4.85	1.83	2.40	8.27	3.29	2.77	2.92	3.94	2.98	39.62
2007 Total	2.29	2.30	2.73	2.34	2.61	3.73	3.66	0.89	2.93	3.42	1.81	3.46	32.17
2008 Total	5.73	4.53	2.15	2.46	4.60	6.95	11.00	0.77	10.30	2.20	1.11	4.43	56.23
2009 Total	0.57	2.63	4.38	5.64	4.43	4.96	4.88	3.27	2.00	9.86	3.85	3.67	50.14
2010 Total	1.35	1.93	2.66	2.71	4.61	10.79	3.59	3.91	5.38	1.57	2.54	2.09	43.13
2011 Total	1.03	2.26	1.40	5.34	3.86	5.75	3.02	0.55	2.31	1.40	3.26	3.43	33.61
2012 Total	1.17	1.30	1.20	3.32	1.98	0.57	1.37	1.47	4.42	1.92	1.26	3.17	23.01
2013 Total	2.69	2.06	2.73	5.61	7.96	3.25	2.86	1.87	0.93	3.51	1.21	1.51	36.19
2014 Total	1.79	2.74	1.89	2.99	1.78	6.42	4.78	6.13	7.62	4.41	2.23	1.45	44.23
2015 Total	1.39	1.37	1.53	2.24	7.84	9.67	5.93	1.08	4.68	1.64	4.42	6.81	48.60
2016 Total	0.99	1.25	3.83	2.59	3.25	2.36	8.69	6.44	4.43	1.64	2.91	1.36	39.74
2017 Total	1.76	0.89	4.02	6.02	3.47	0.98	5.82	2.19	0.71	4.68	2.49	0.46	33.49
2018 Total	0.73	4.79	4.27	2.51	2.99	4.12	3.86	2.94	2.29	6.27	2.49	4.48	41.74
2019 Total	3.21	2.48	5.38	5.38	6.84	5.17	1.22	3.48	4.33	4.74	1.97	1.49	45.69
2020 Total	4.28	2.40	2.98	7.20	4.8	2.28	3.90	1.44	1.85	1.03	2.25	1.03	35.44
2021 Total	3.55	1.78	4.55	2.00	4.11	6.96	3.94	3.78	2.26	6.74	0.66	2.01	42.34

Notes: 1993-2021 data compared against 1981-2010 30yr Average for the Lincoln, IL Station

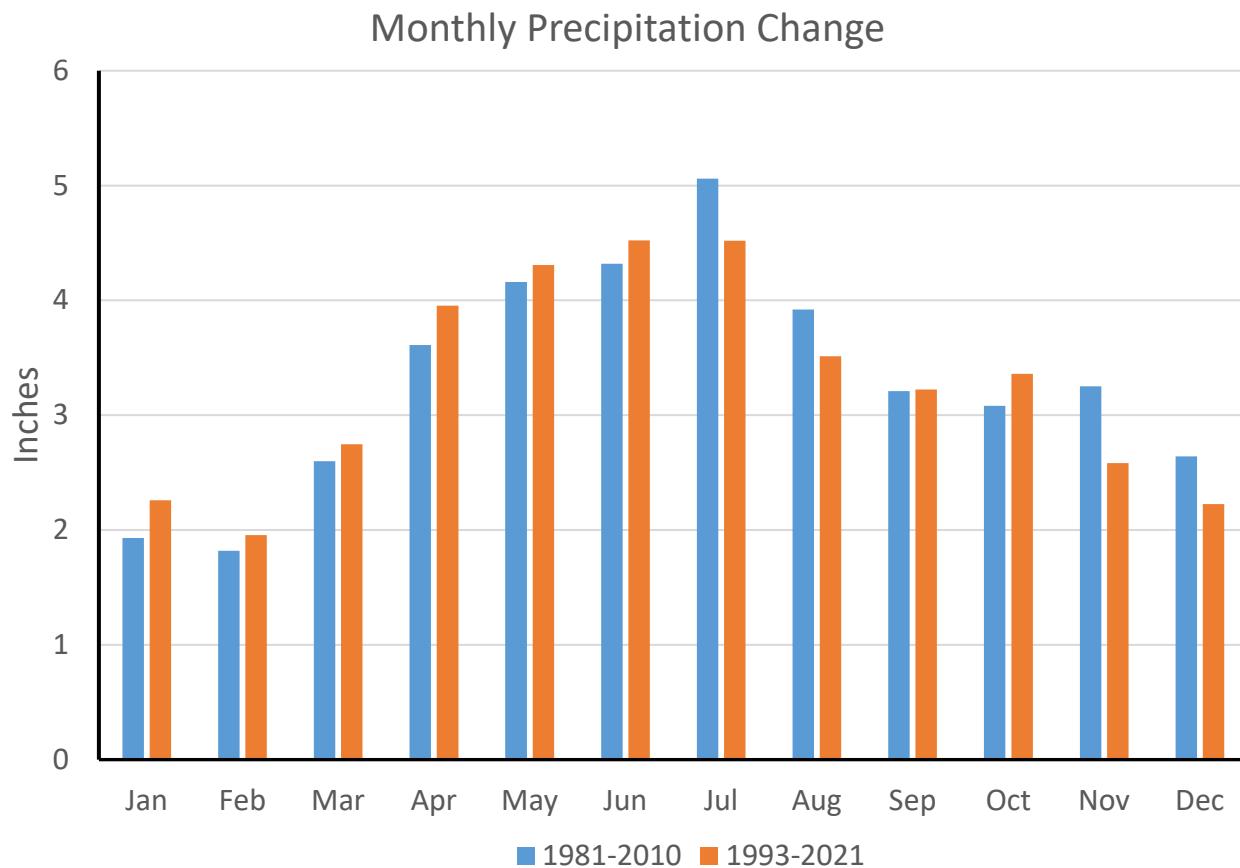


Figure 3. Monthly precipitation averaged over this study (1993-2021) compared to the 30-year average from 1981-2010

River Stages

Comparing water level elevations to river stage, the water level in MTH-3, prior to its removal in 2017, was 50 feet lower than the river stage measurement collected at RVR-3. But at the other 2 locations, MTH-6 and MTH-7, the differences with river stage measurements collected at RVR-6 and RVR-7 were only 7 feet and 2 feet, respectively, suggesting that the Mackinaw River is not connected to the aquifer near Mackinaw, but likely near MTH-6 and MTH-7. The hydrographs for these two wells also show some of the most variation between individual measurements, suggesting the influence of the river.



Groundwater Monitoring Wells

The City of Bloomington funded the development of eight locations (9 wells) with data loggers and telemetry for collecting continuous water level measurements. The wells, SWS-3A, SWS-3B, SWS-A, SWS-B, MTH-15, MTH-20, and MTH-21, are located in the eastern portion of the study area. Wells B-2 and B-3 are near Lake Evergreen, north of Bloomington/Normal. These stations became operational in the summer and fall of 2013. During 2014, ISWS teamed up with Northern Logan County Water Authority to equip two wells with data loggers and telemetry systems. The wells, SWS-E and SWS-10, are located in Logan County. These new stations became operational in the summer of 2015. The stations are programmed to collect water level data every hour at the top of the hour. In 2018, Northern Logan County Water Authority funded the expansion of the network to SWS-8 and MTH-22D&S. The hydrographs with the one-hour data are located at the end of this report.

Multiple wells show the influence of irrigation, in particular SWS-3, SWS-8, SWS-10, SWS-A, SWS-B, MTH-15, MTH-20, and MTH-21. Irrigation is most prominent in these wells in the period from 2017 through 2021. With the exception of SWS-2B, the lowest 2021 groundwater elevations did not exceed the lowest elevations observed in 2018. Due to the normal to above average precipitation between January and May 2021, groundwater levels were elevated just before irrigation season, as compared to 2018. The average precipitation, during and post irrigation season, also remained above average, which is a likely explanation for the overall higher groundwater levels at the end of the year, compared to 2020.

These data continue to be very valuable for evaluating drawdown due to irrigation, and to provide a clearer picture of the annual changes in water levels in the aquifer. The hydrograph for SWS-A is a classic example of how the peak of irrigation was missed with hand measurements, but captured with transducer data, allowing for a comparison between years and even months that was previously not possible. It is our hope that eventually all the wells in the network can be outfitted with data loggers and telemetry.

It should be noted MTH-21 has an extremely high amount of iron bacteria within the well. The presence of the iron bacteria interferes with hand measurements of the depth to water. The data has had more variability than the other wells with data loggers but there is less confidence in those readings. The data still appear comparable, usually within 0.05 to 0.10 feet. Attempts have been made to improve the situation at MTH-21, without success. The two wells at SWS-3 that were disabled because squirrels chewed through the conduit and cable at the station, have been repaired and became operational again during 2016.



On-line Delivery of Data

The ISWS now shows all data on its website, in real time. You can view these hydrographs at:

- 1) McTaz network: <https://www.isws.illinois.edu/groundwater-science/groundwater-monitoring-well-networks/mclean-and-tazewell-counties>
- 2) Northern Logan County: <https://www.isws.illinois.edu/groundwater-science/groundwater-monitoring-well-networks/northern-logan-county>

Figure 4 shows an example hydrograph page for SWS-B. The well information includes:

- 1) The name of the network (McTaz)
- 2) The name of the local aquifer. This will either be labeled as the Mahomet or Glasford Aquifer.
- 3) The aquifer type. For most wells, this will be confined, indicating that the water in the aquifer is overlain by relatively impermeable material.
- 4) The aquifer class in all cases will be Quaternary Sand and Gravel.
- 5) Location of a well in latitude and longitude. The well location is also shown in the map.
- 6) Land surface elevation in feet with respect to mean sea level.
- 7) Depth of the well below land surface
- 8) Measurement frequency. This is continuous for wells with transducers, and periodic for wells with only hand measurements.
- 9) Period of record indicates how long a well has been monitored by the ISWS
- 10) Last water level is measured in feet above mean sea level.

Data can be downloaded for each well and will designate whether the measurement is taken by hand or a pressure transducer. The data can be downloaded as a .csv file (which can be opened in Excel and many other programs) or as a .json file (which has a more complicated file structure but is commonly used in many GIS or web applications).

The hydrograph is dynamic and will allow visualization of data over any range the user would like to investigate. Buttons above the hydrograph allow for the rapid selection of common time ranges of interest: 1 week, 1 month, 6 months, 1 year, or the entire data record. You can also click on and move the buttons on the bottom of the hydrograph to change the range of dates visible. Although the data is transmitted in real-time to the ISWS, there is often a lag of ~1 day before the hydrograph is updated.

Data for many hydrographs are undergoing QA/QC at the time of release of this letter. These are denoted with an asterisk. Also, the current iteration of the hydrograph tool will occasionally show a disagreement between a hand measurement and transducer data. This often occurs when large amounts of transducer data are being rendered on screen; zooming into the point in question will frequently result in a more detailed render of the transducer data and a smaller discrepancy.

Also note that our database often refers to well names as A&B rather than D&S. Until this is corrected, in all instances, A is the deep well (D) and B is the shallow well (S).

Groundwater Science

[Home](#) / [Groundwater Science](#) / Monitoring Well Report

Name : ISWS - B
ISWS P# : 236007

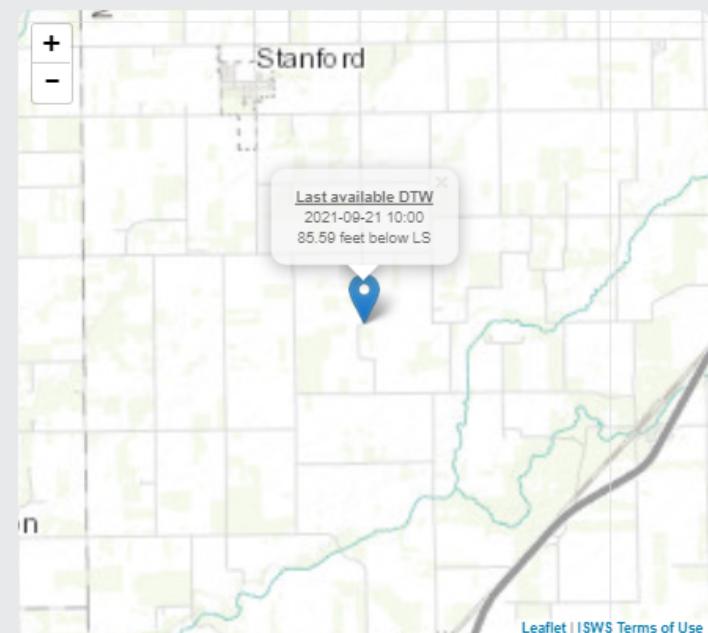
Network :
MCTAZ
Local Aquifer Name :
MAHOMET
Aquifer Type :
CONFINED
Aquifer Class :
QUATERNARY SAND AND GRAVEL

Location [Lat, Long] : [40.3843, -89.188527]
Land Surface Elevation : 672.2 feet above MSL
Depth : 315 feet below LS
Measurement Frequency : CONTINUOUS
Period of Record :
[1992-08-05 00:00] - [2021-09-21 10:00]

Last water level : 586.61 feet above MSL

Download Data :

[JSON] | [CSV]



Groundwater Observations For: ISWS - B



Figure 4. Example Hydrograph Page (SWS-B)

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In 2010, the USGS requested we provide a well site for them to use as part of their water level network. MTH-17 was selected and the USGS installed a water table well at MTH-17 in July 2010. The water table well and MTH-17D are outfitted with continuous recorders and the data are available on the USGS website (<http://waterdata.usgs.gov/il/nwis/current/?type=gw>). The station numbers are 401921089282102 and 401921089282103. Figure 5 is a screen shot of the USGS webpage for MTH-17D.

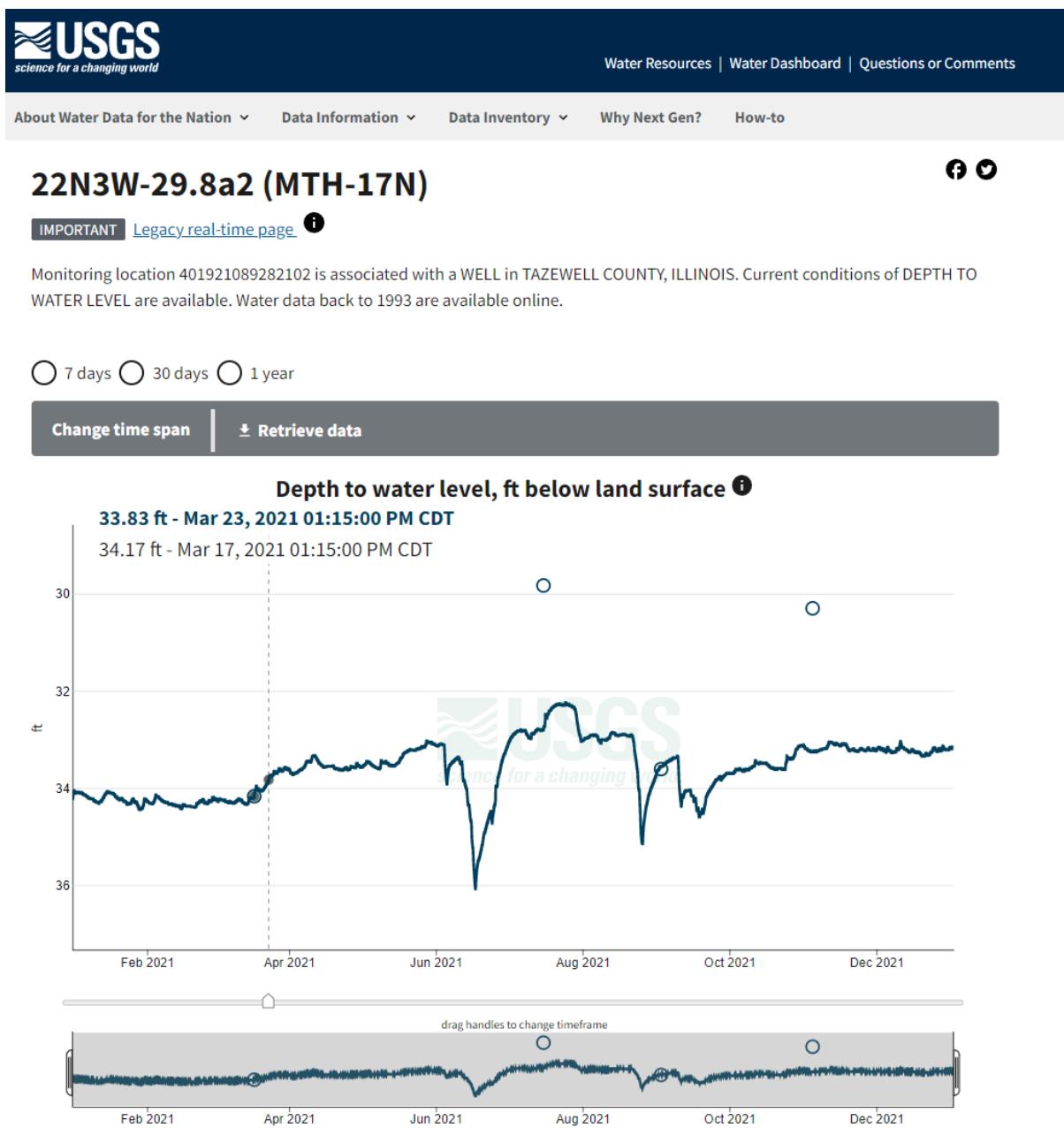


Figure 5. USGS Webpage for MTH-17D.



The ISWS would like to thank the LRPSC for continuing to fund this project. We would also like to thank the City of Bloomington for providing additional resources to outfit the nine wells with telemetry and the Northern Logan County Water Authority for providing resources to outfit five additional wells. The information being gathered is essential to continue to move toward utilization and proper management of the Mahomet Aquifer.

Many ISWS staff assist in this project. Hideyuki Terashima measures and maintains the observation well network for all wells involved in this study. Daniel Hadley maintains the groundwater level database and Vlad Iordache develops and maintains the online interactive hydrograph tools and webpages.

Sincerely,

A handwritten signature in blue ink that appears to read "K.L.R".

Kevin L. Rennels
Field Research Specialist
Illinois State Water Survey
krennels@illinois.edu
Phone: (217) 333-8466

Hideyuki Terashima

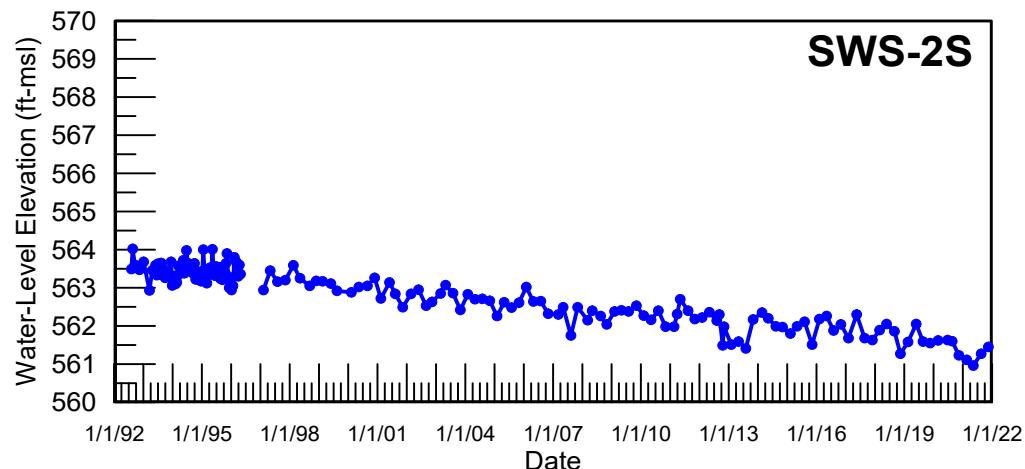
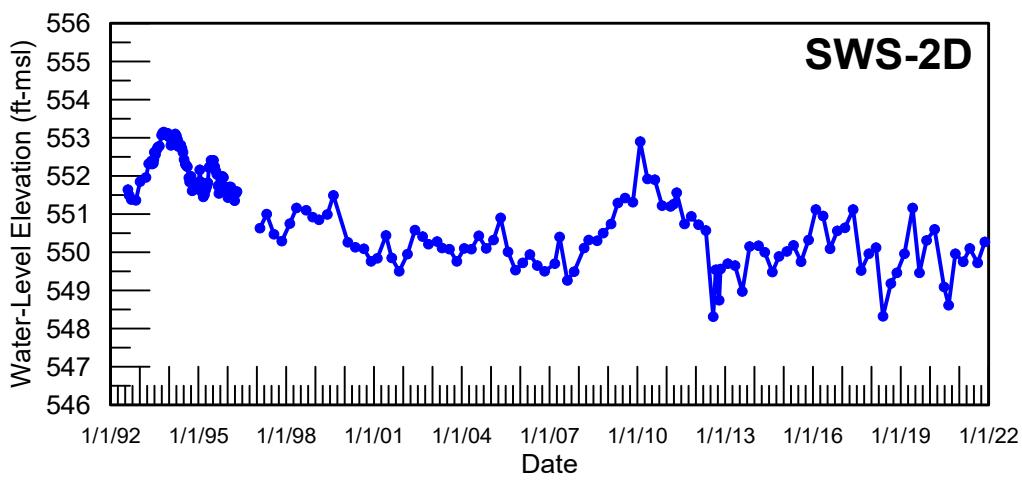
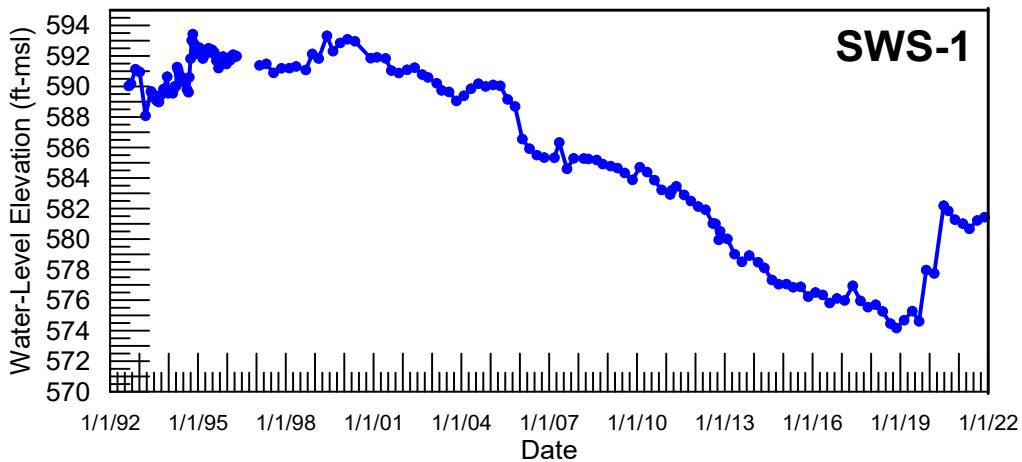
Hideyuki Terashima
Outreach Data Tech Specialist
Illinois State Water Survey
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Phone: (217) 300-7579

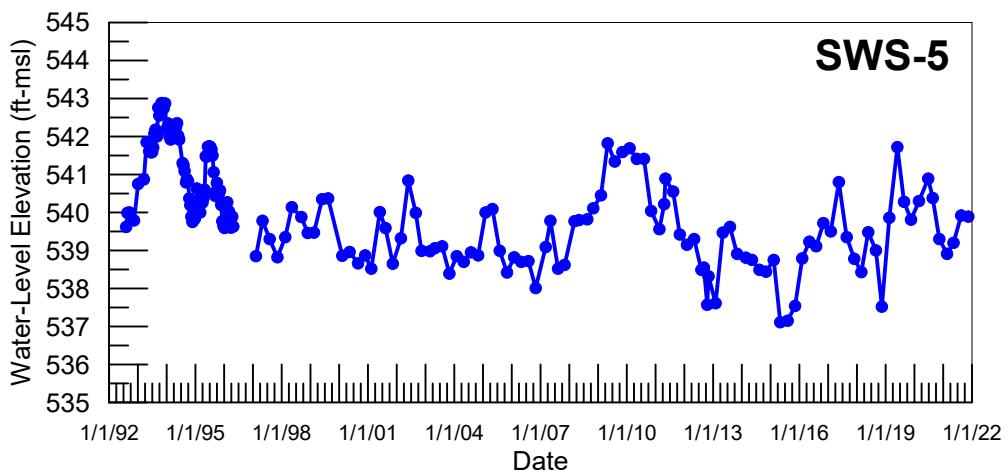
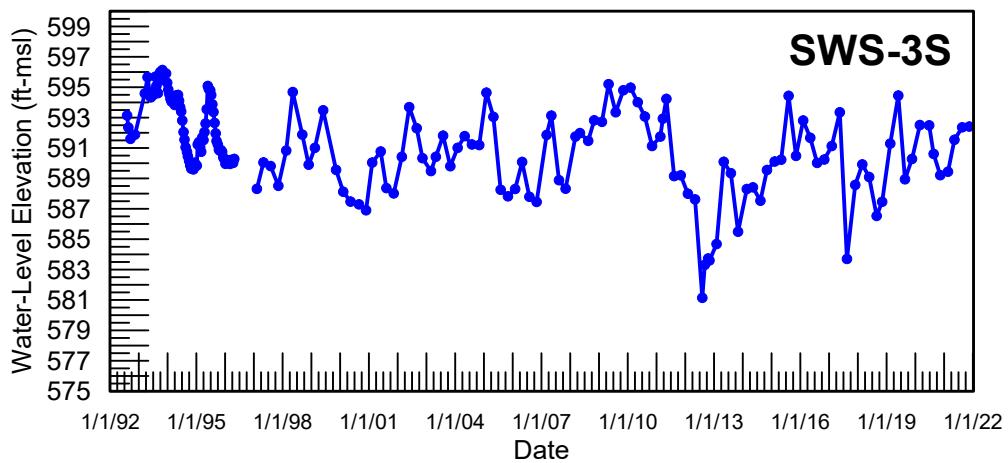
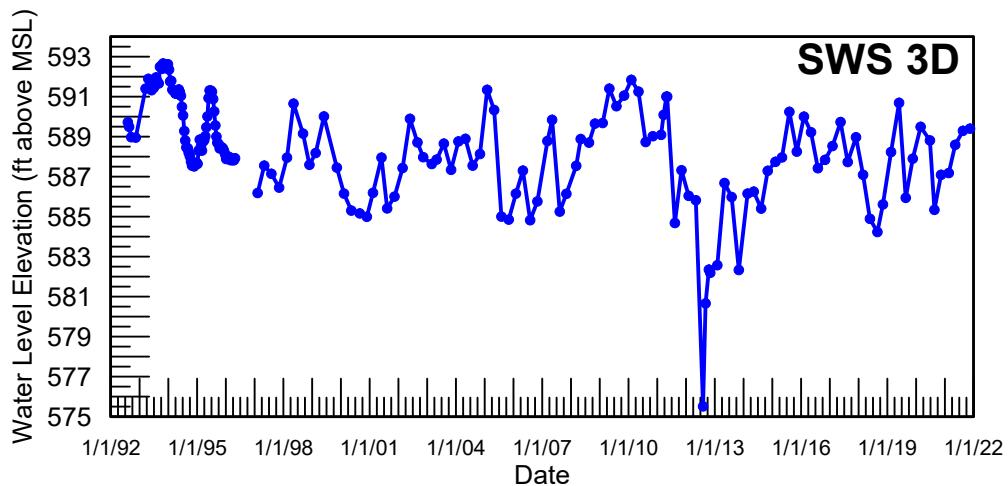
A handwritten signature in blue ink that appears to read "Daniel Abrams".

Daniel B. Abrams
Groundwater Flow Modeler
Illinois State Water Survey
dbabrams@illinois.edu
Phone: (217) 244-1520

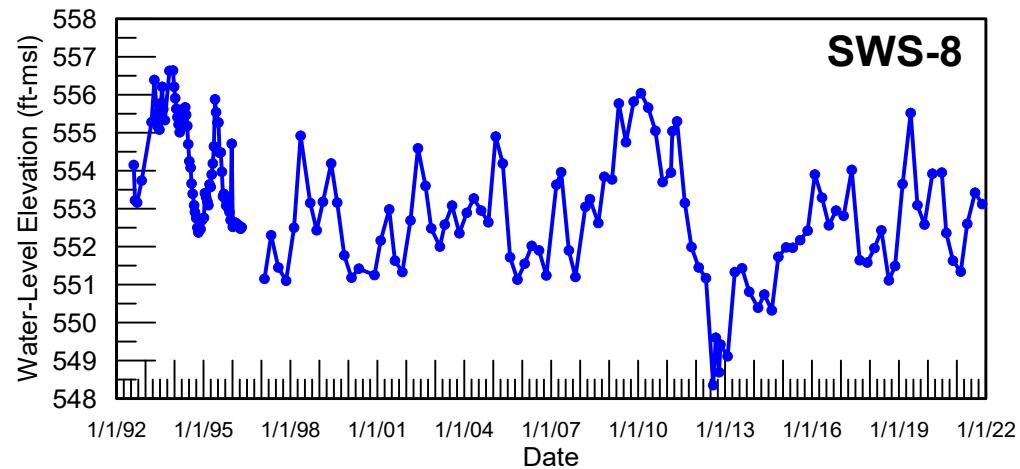
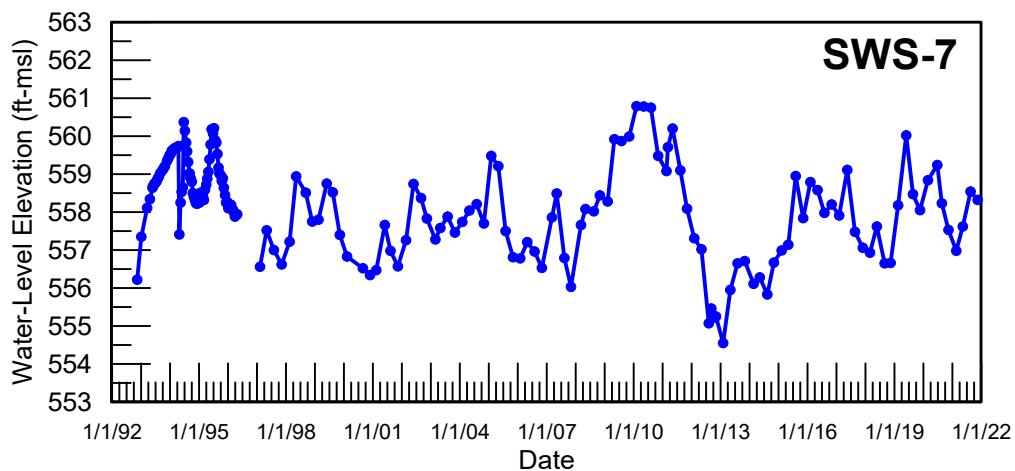
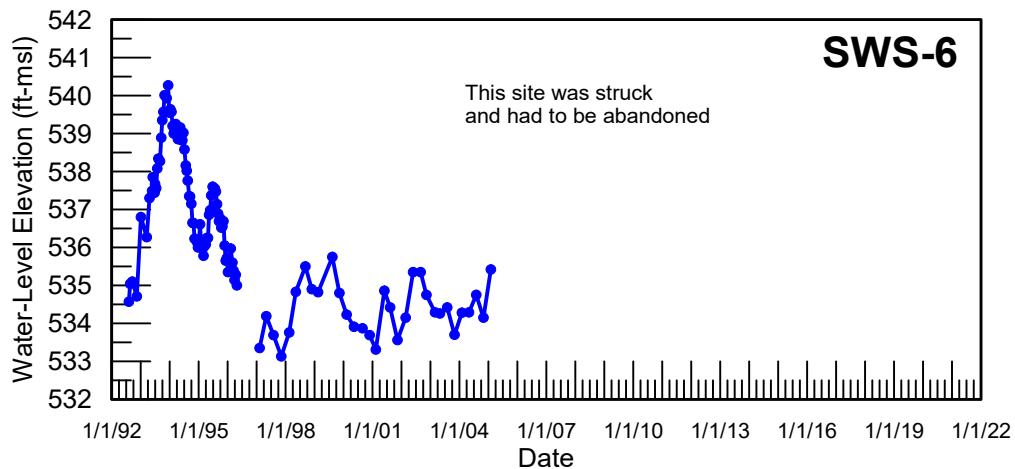
cc:

Bob Kohlhase, Farnsworth Group
Mel Pleines, Pleines & Assoc.
Kevin Whitehouse, City Of Bloomington
John Burkhardt, Director of Water, Town of Normal
Pam Reese, City Manager, Town of Normal
Greg Troemel, Director of Inspections, Town of Normal
John Hamilton, Mayor, City of Bloomington
Tim Gleason, City Manager, City of Bloomington
Tom Cross, Chairman of the Northern Logan County Water Authority
George Roadcap, Hydrogeologist, ISWS
Walt Kelly, Groundwater Science Section Head, ISWS
Steven Wilson, Groundwater Hydrologist, ISWS
Kevin Rennels, Field Research Specialist, ISWS
Daniel Abrams, Groundwater Flow Modelers, ISWS
Hideyuki Terashima, Outreach Data Technical Specialist, ISWS
Vlad Iordache, Water Resources Application Developer, ISWS
Daniel Hadley, Hydrogeologist, ISWS
Lisa Young, Grants & Contracts Coordinator, PRI
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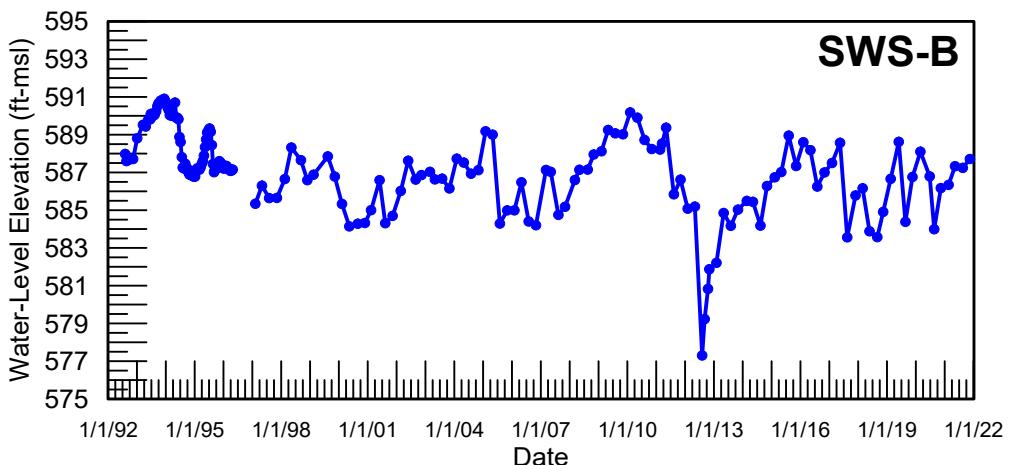
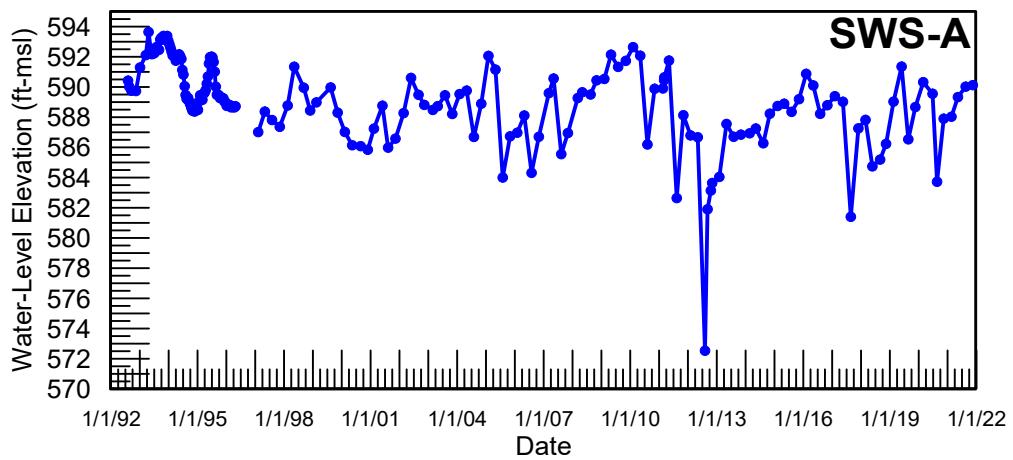
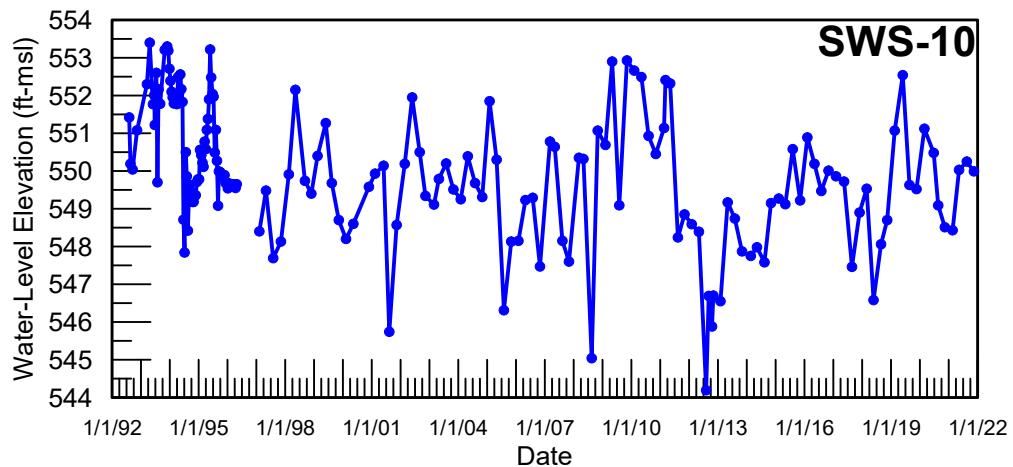




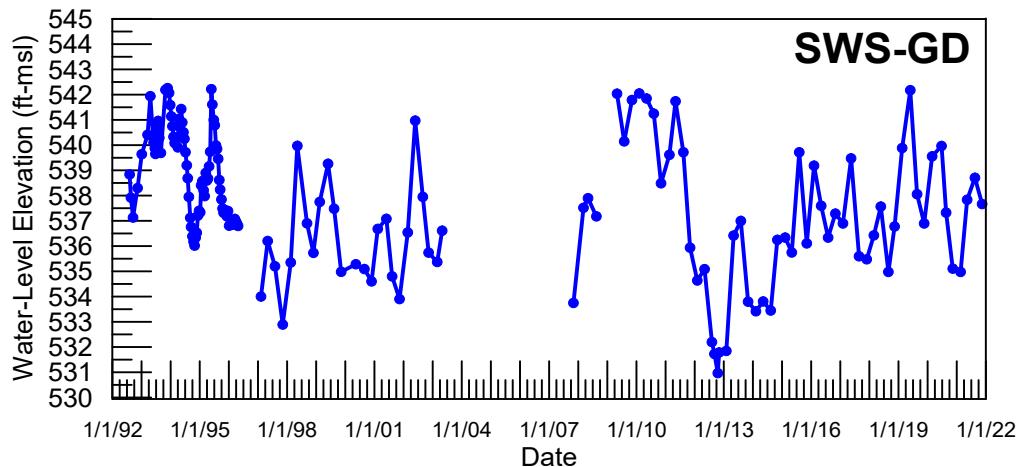
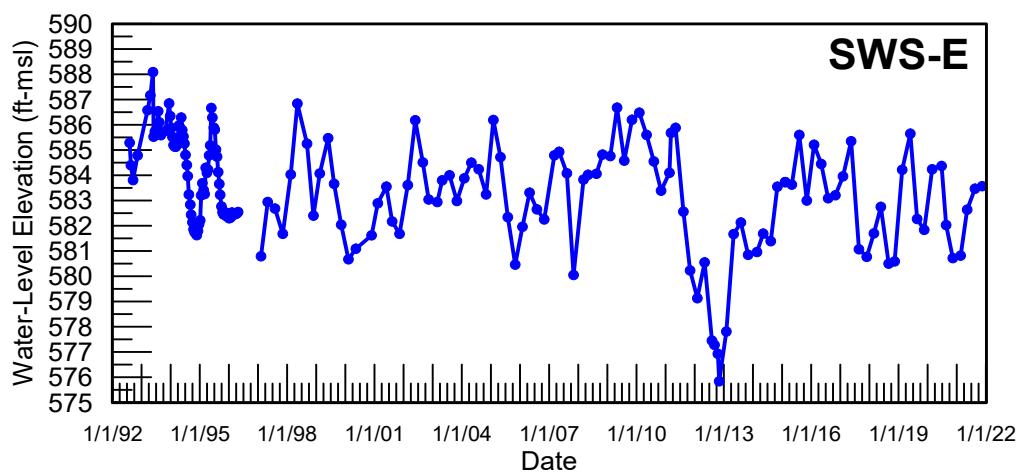
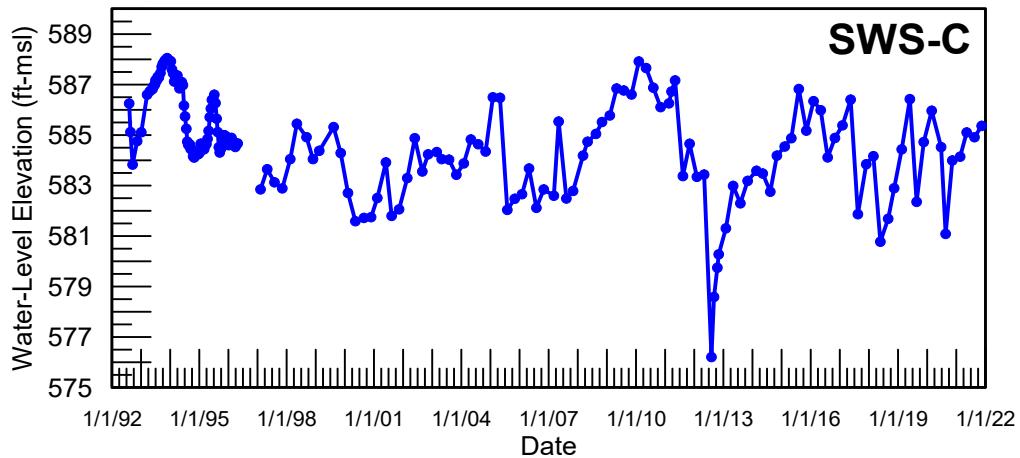
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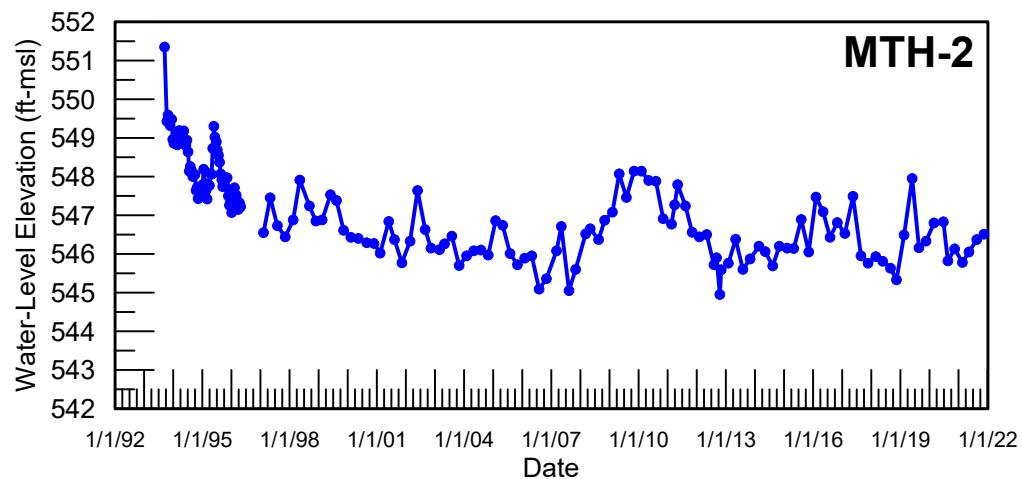
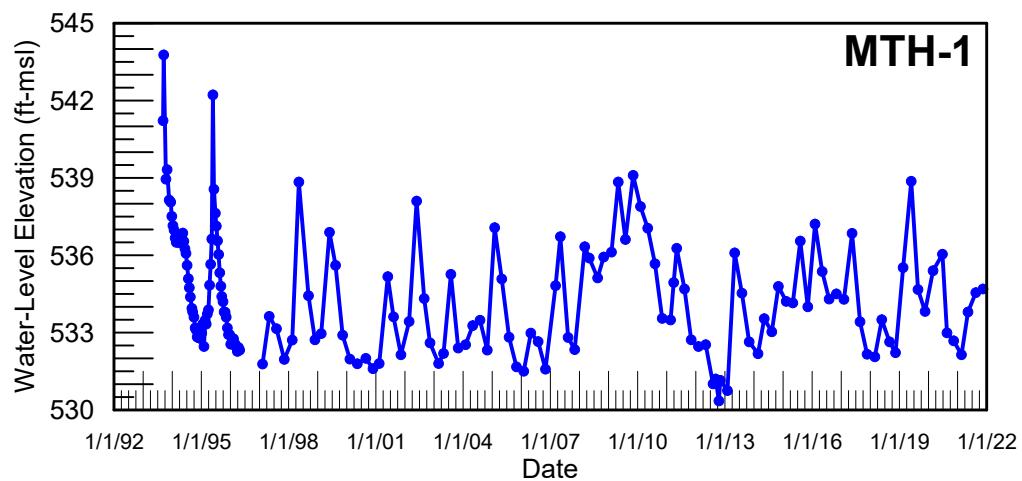
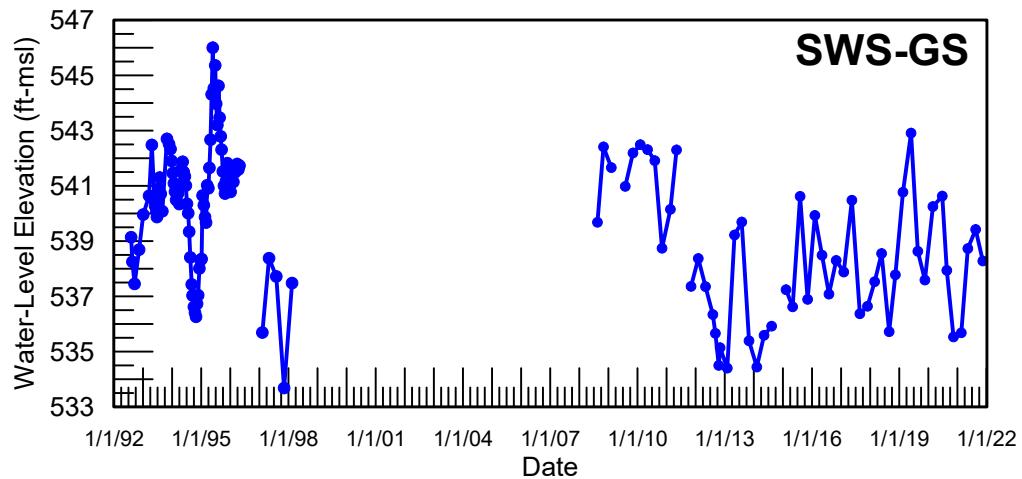


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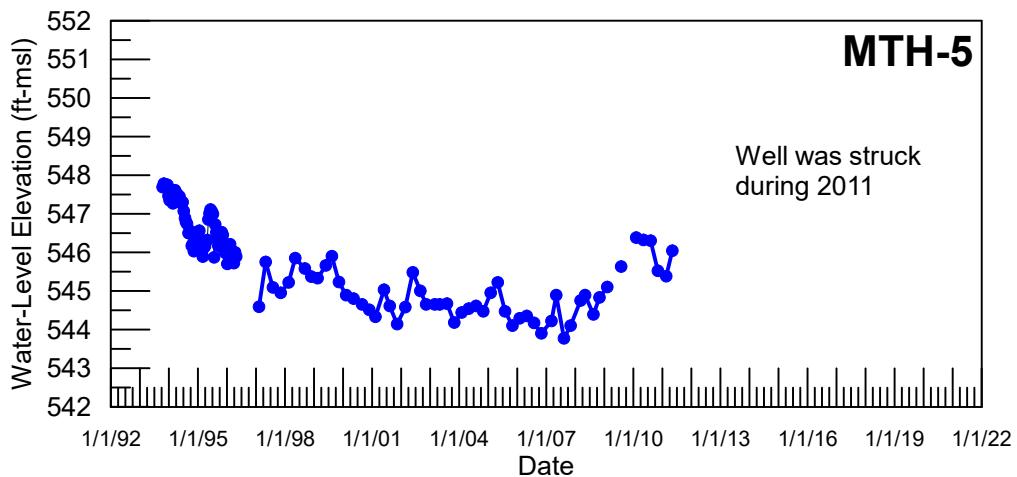
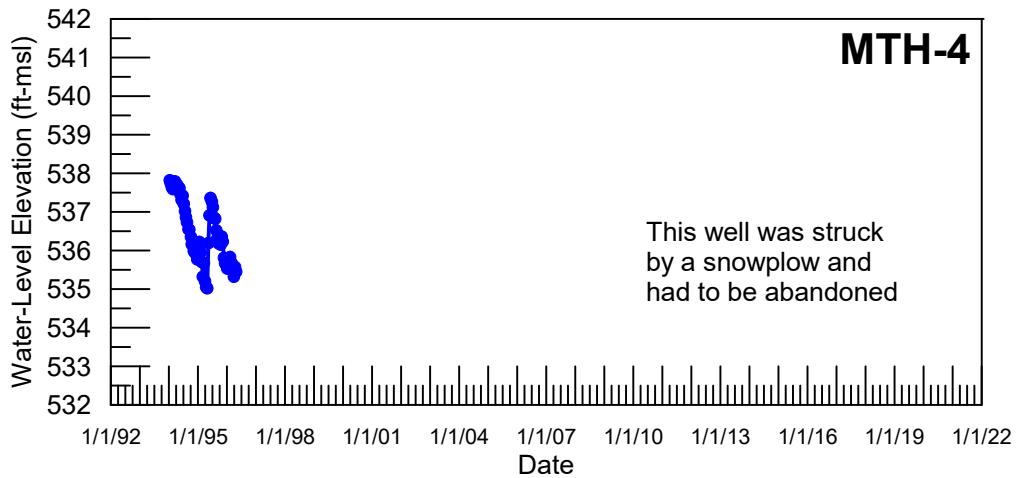
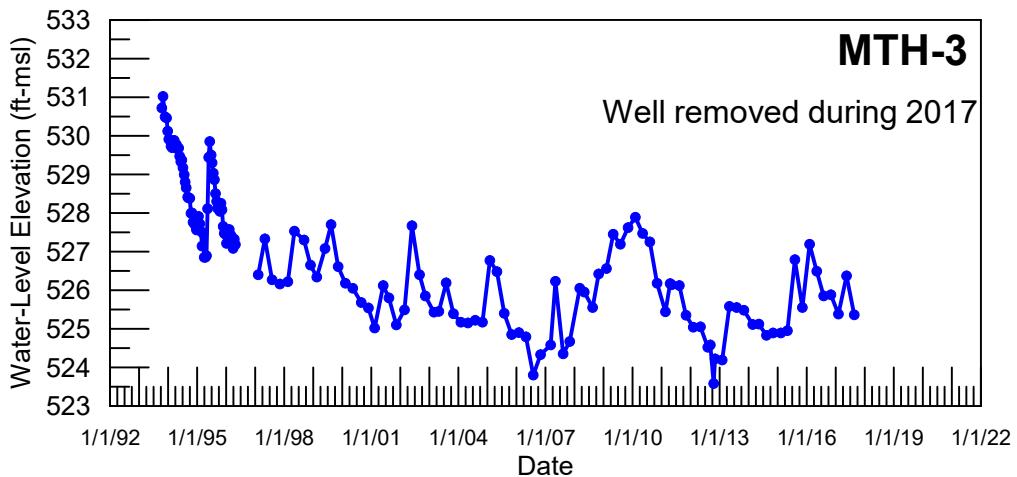


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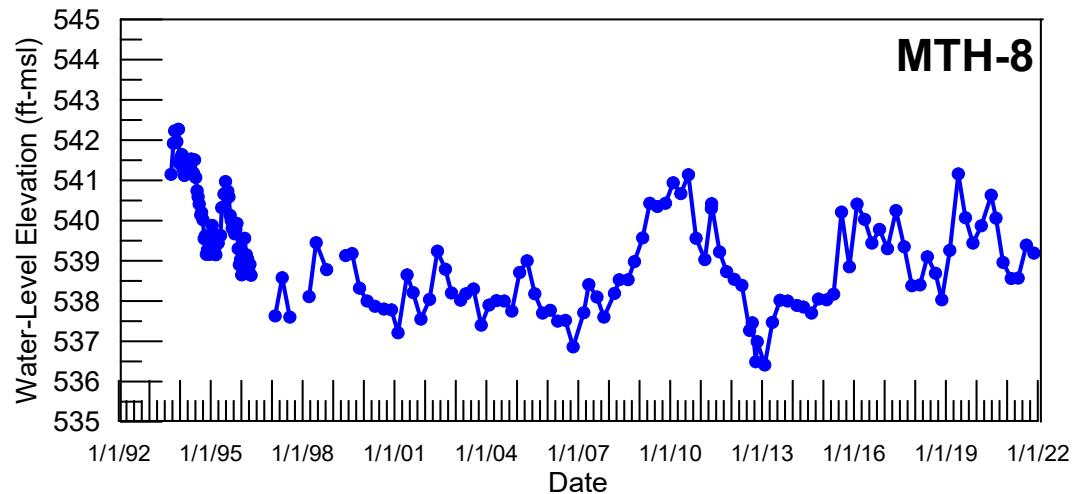
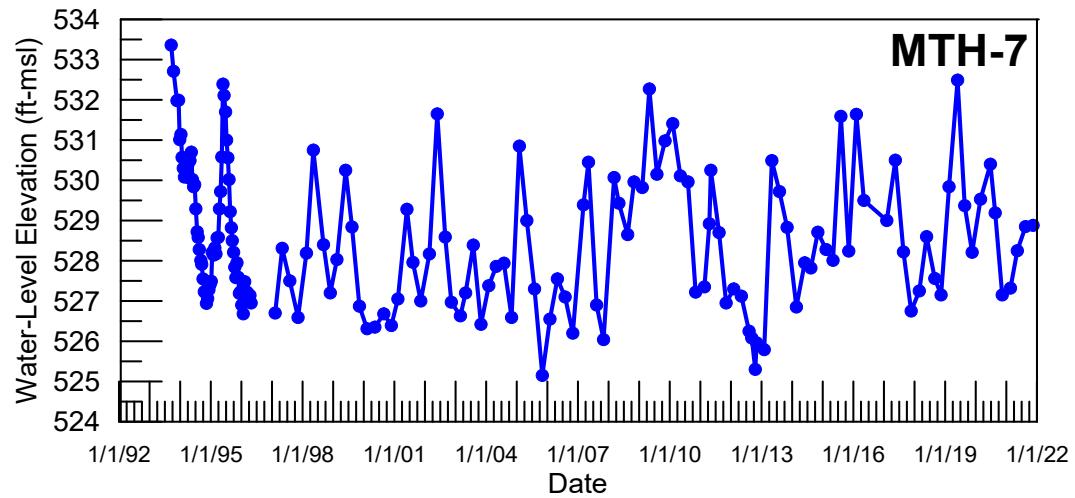
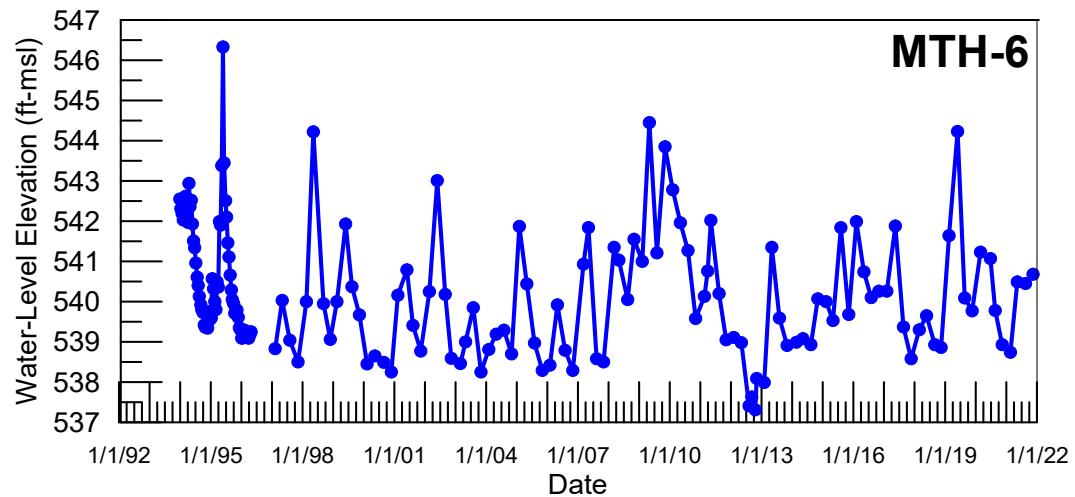




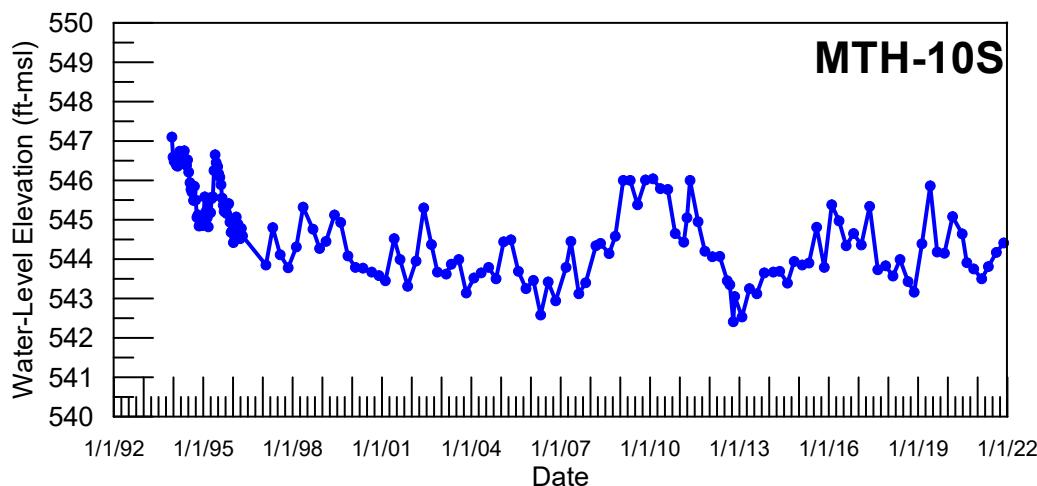
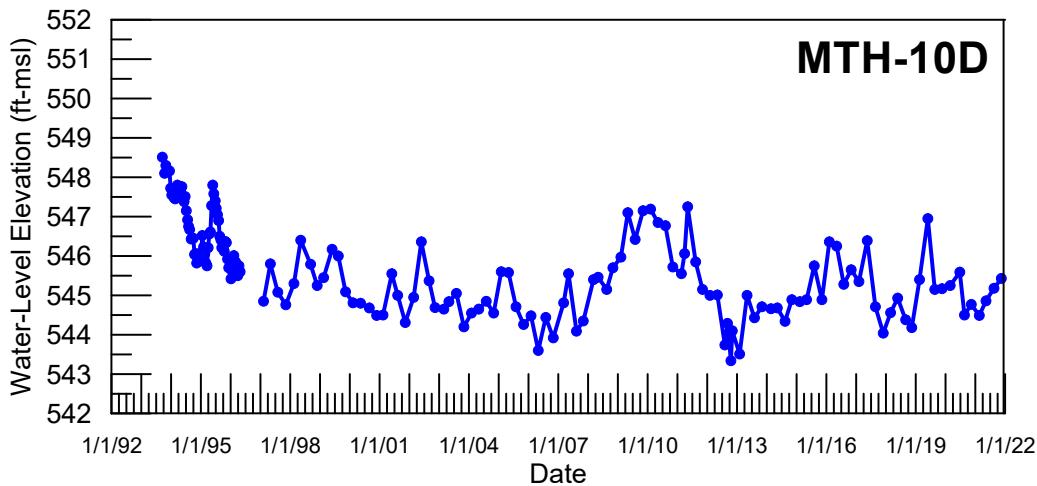
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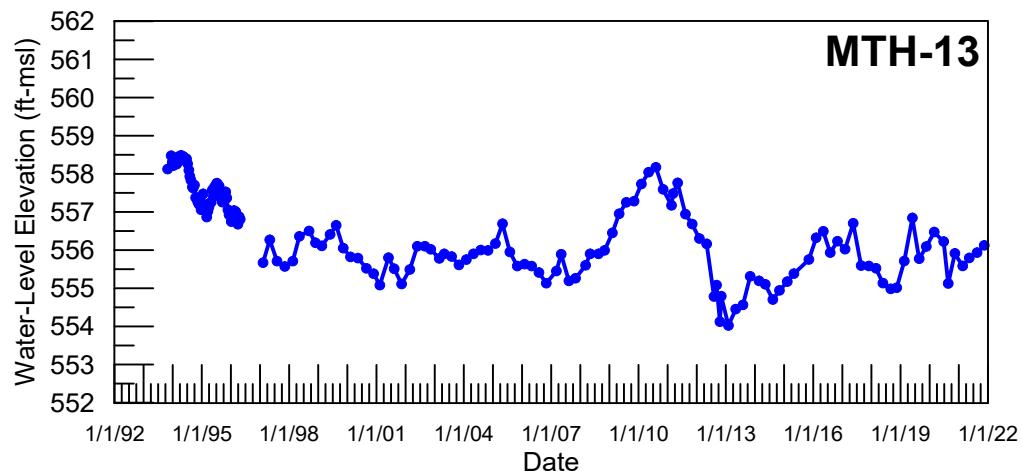
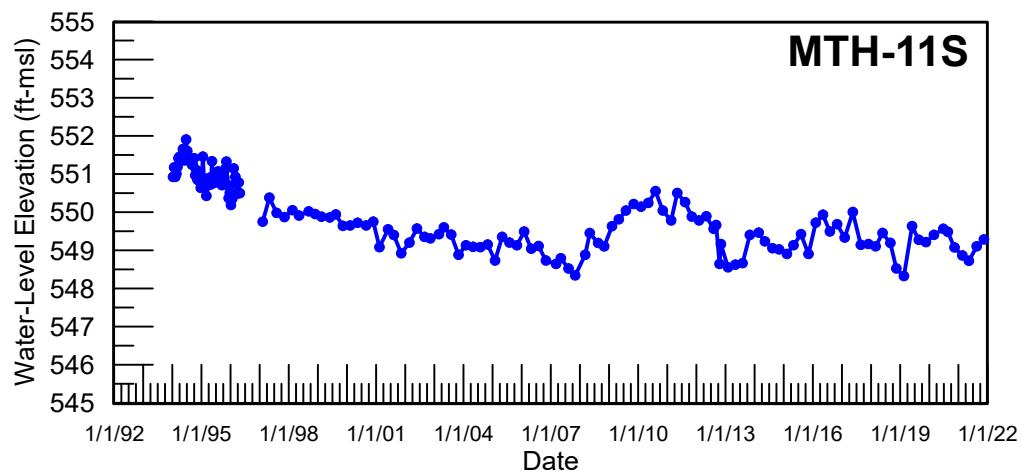
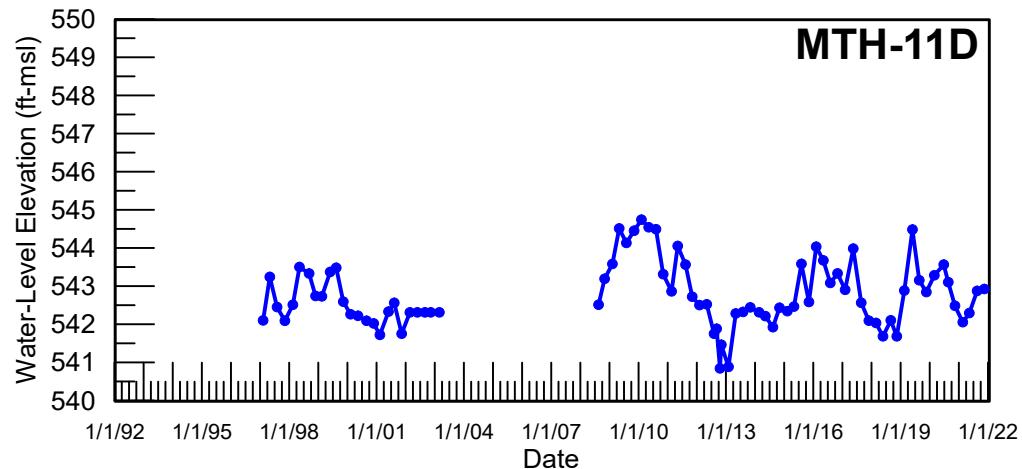
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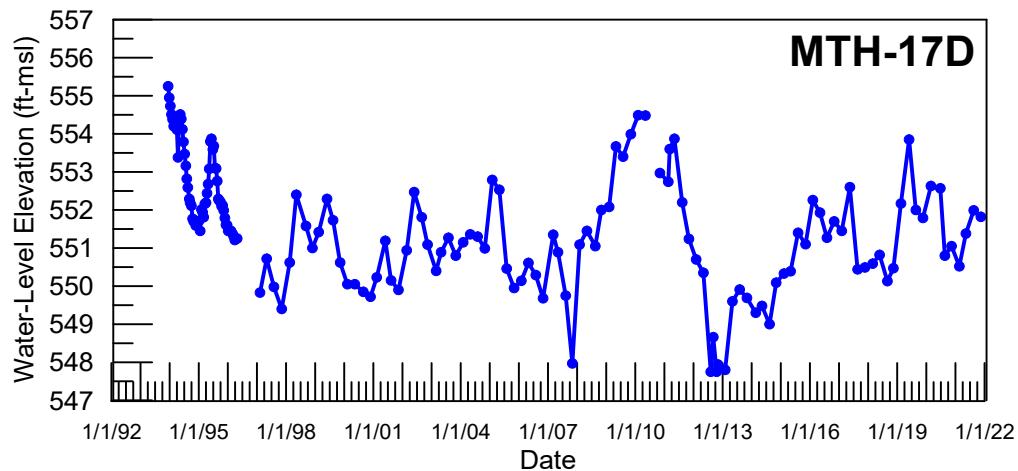
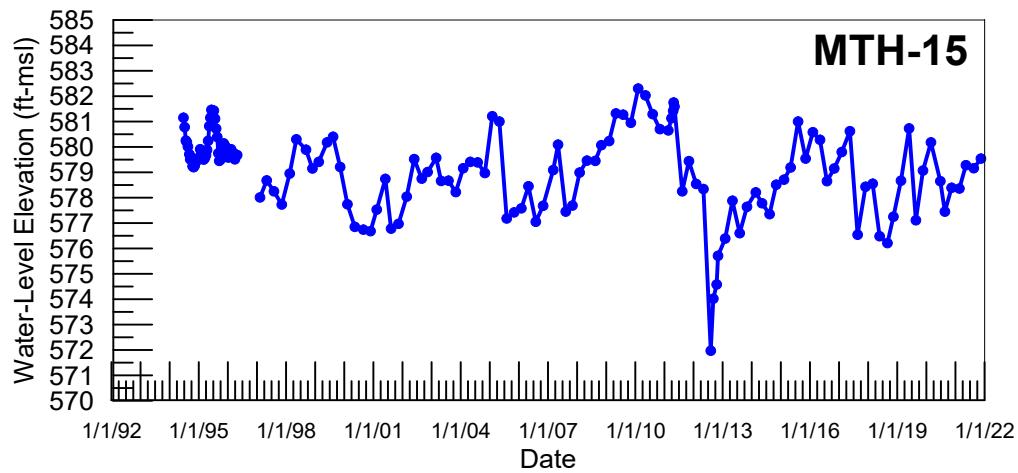
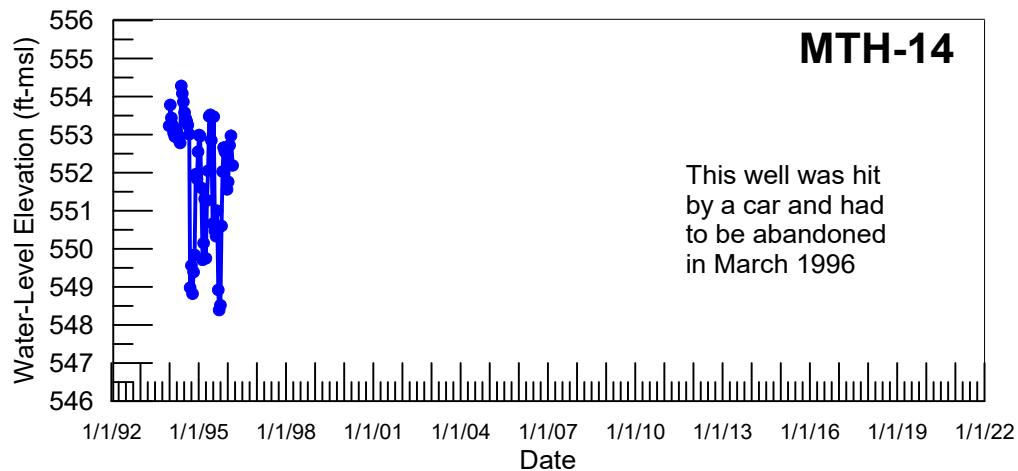
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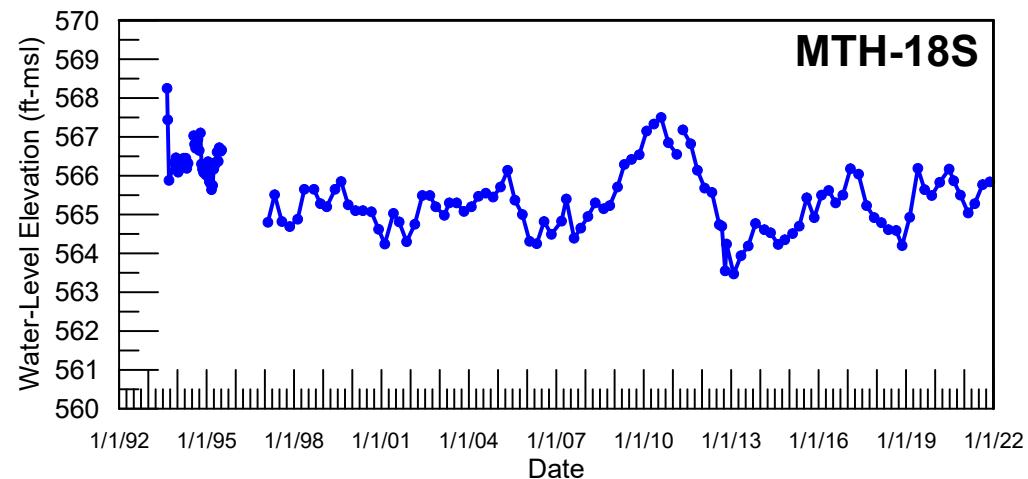
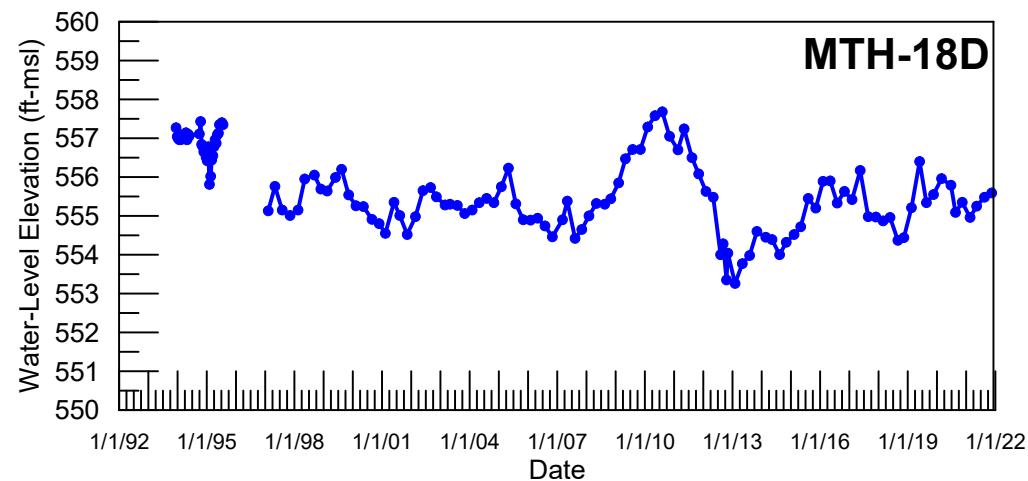
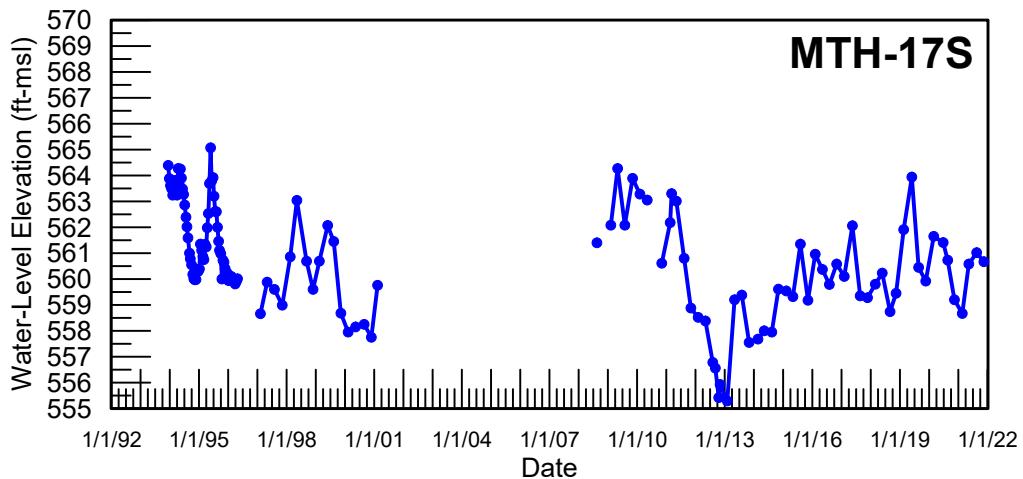
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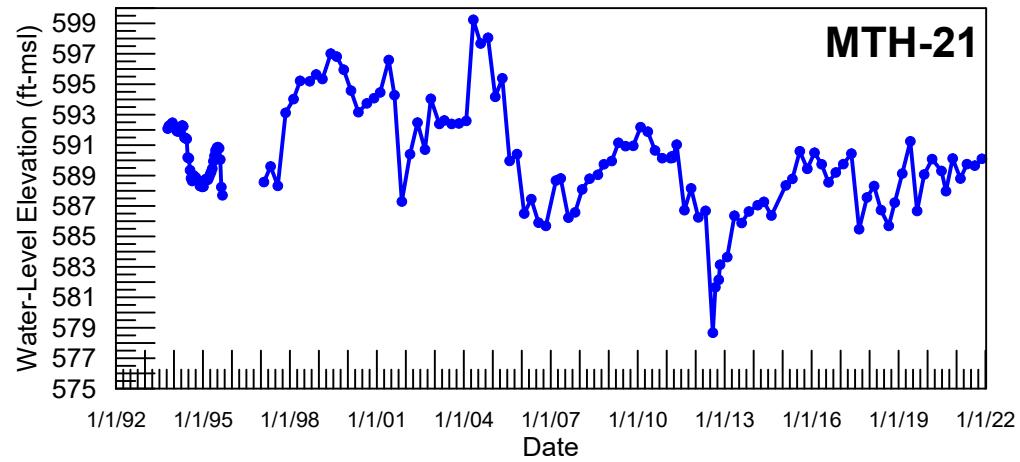
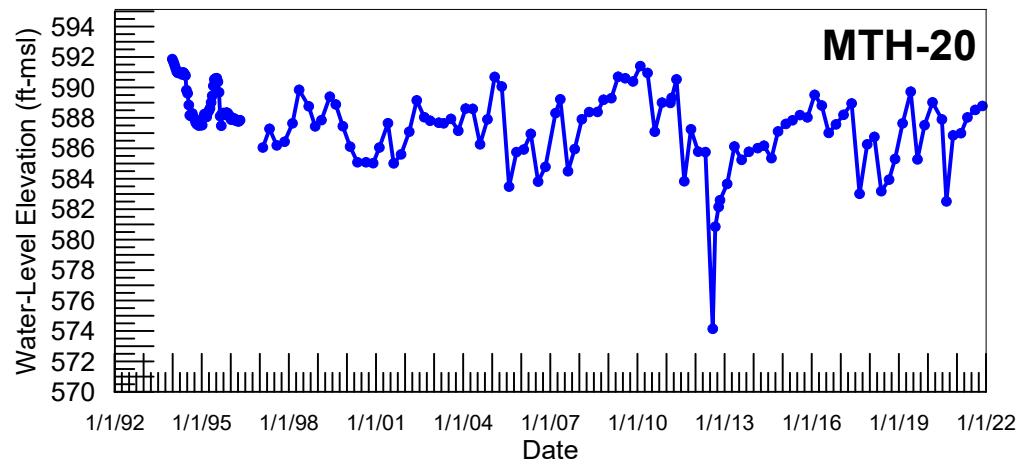
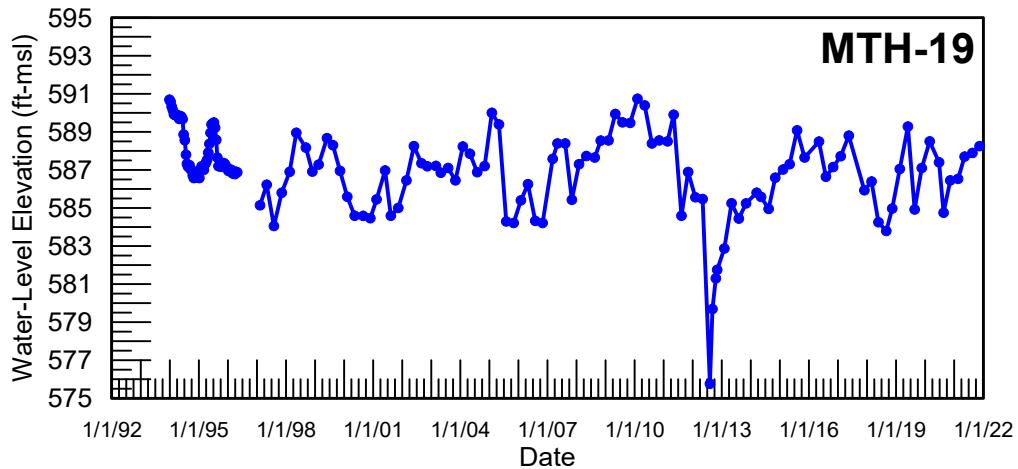
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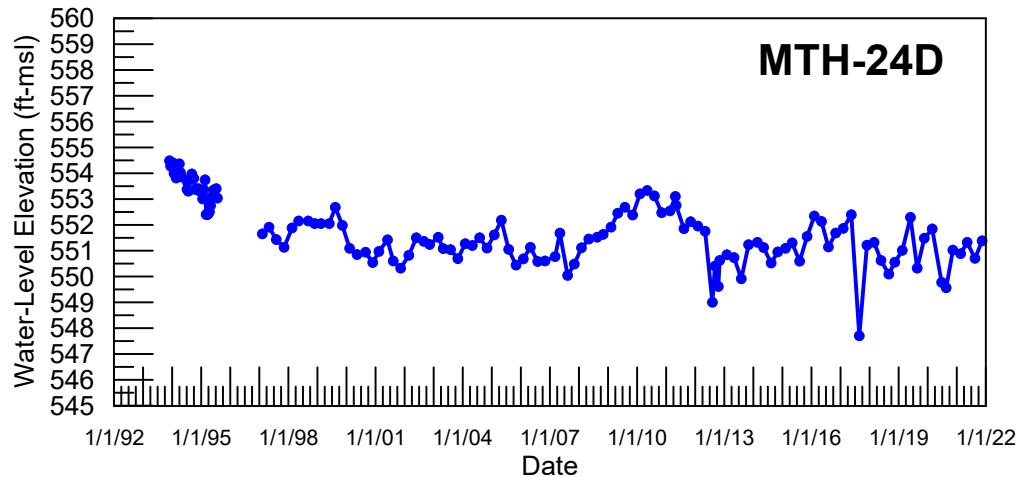
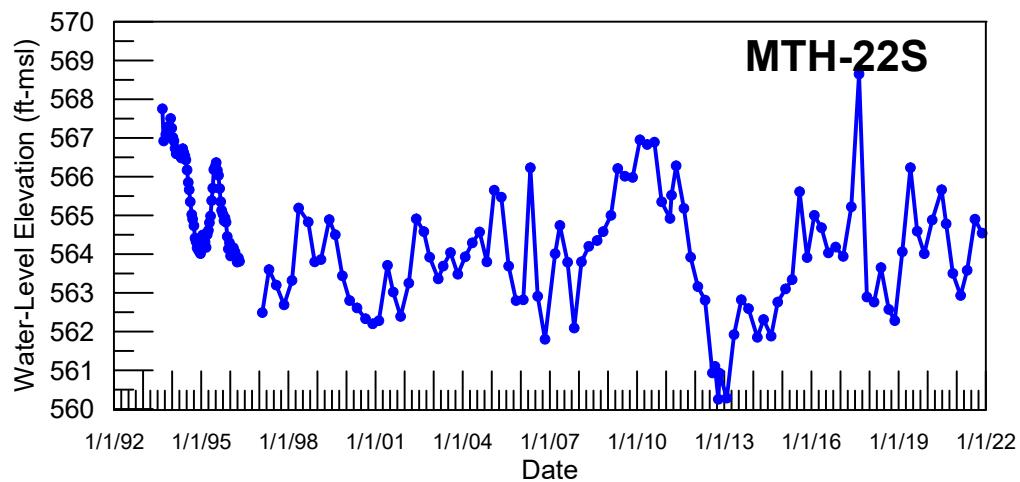
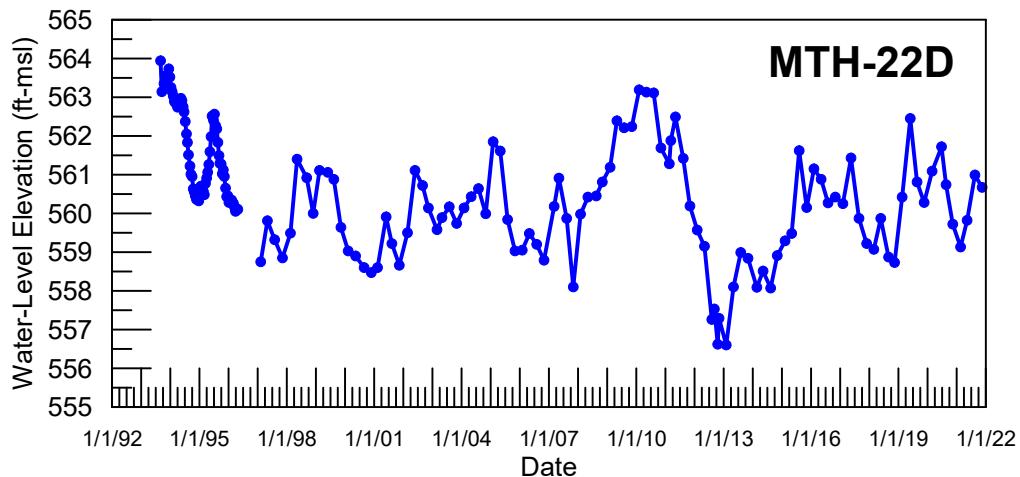
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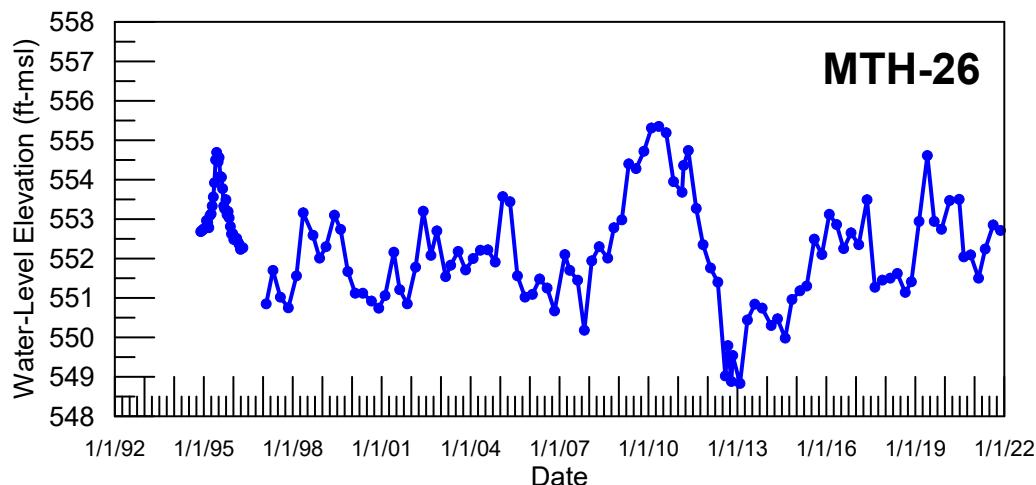
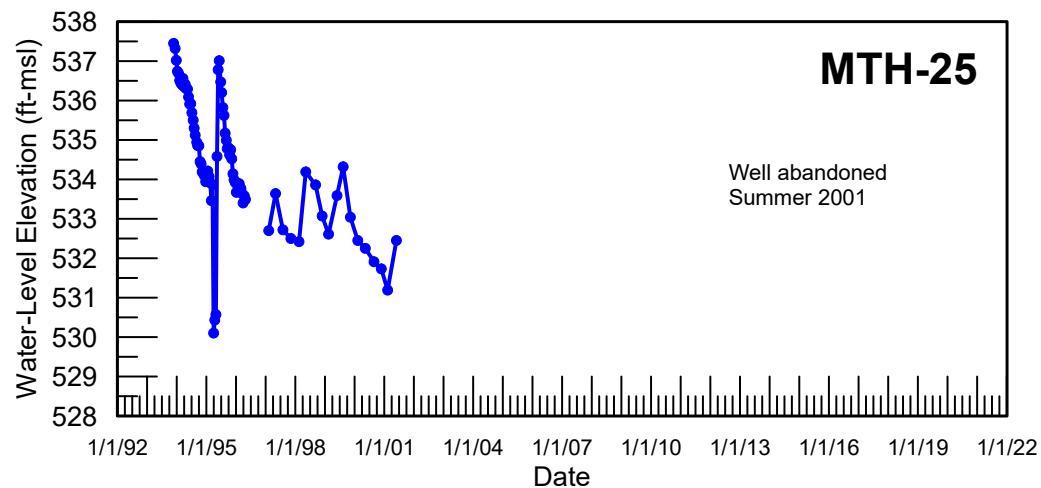
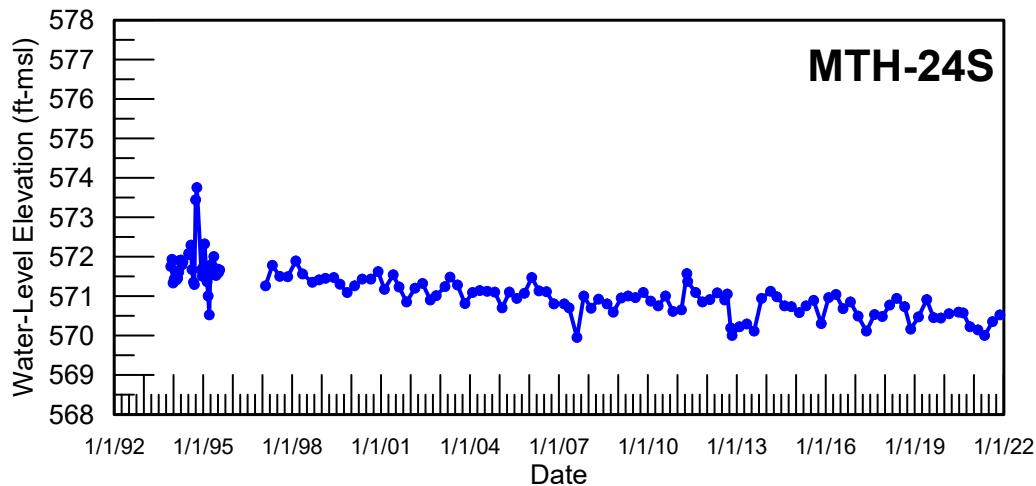
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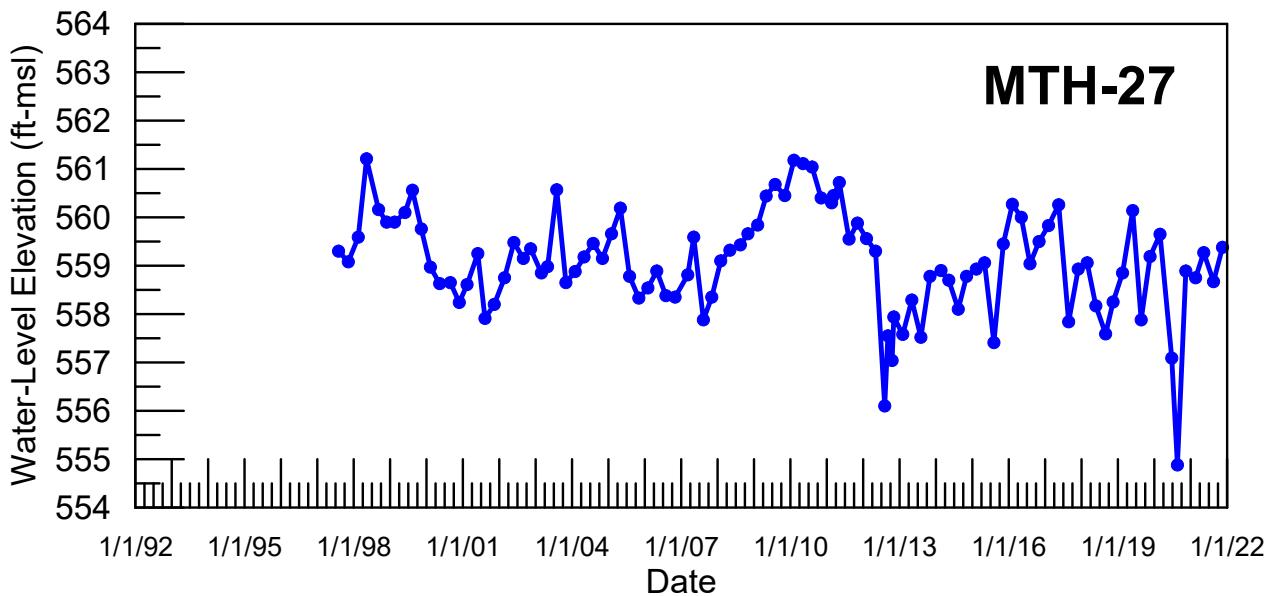
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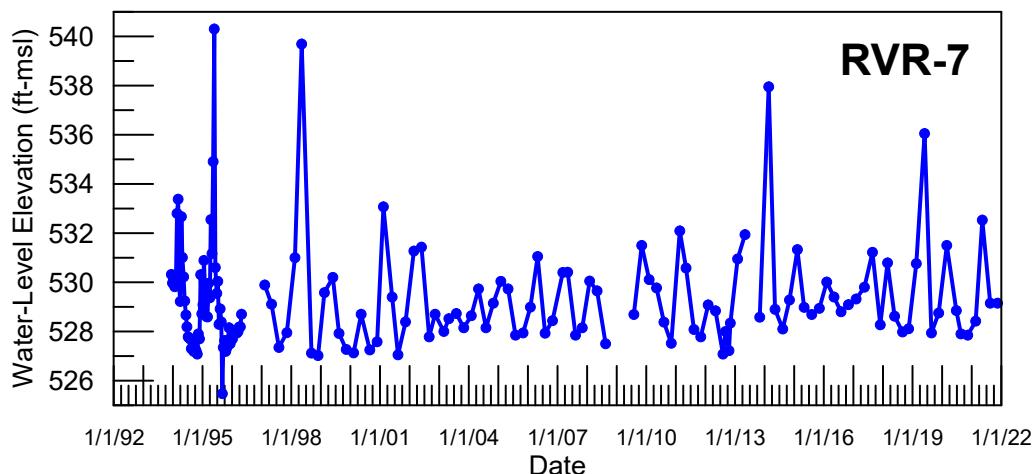
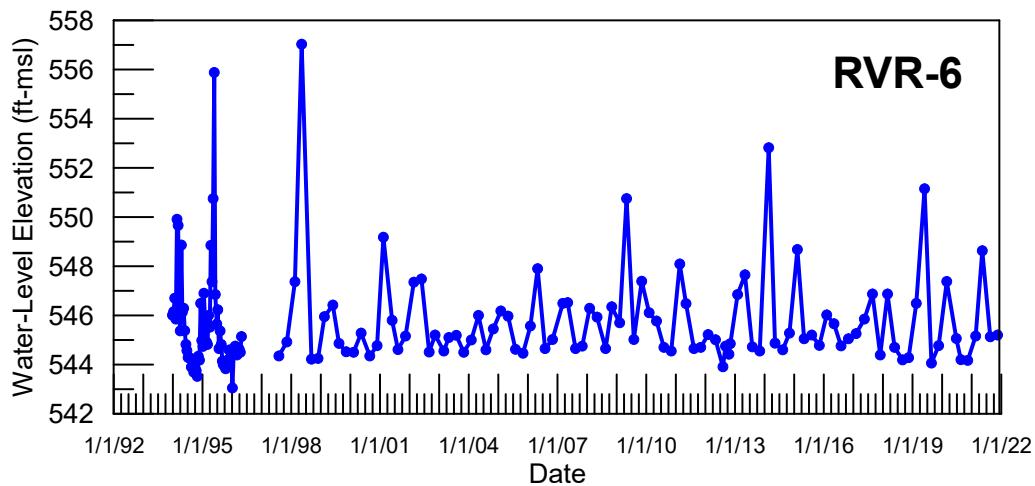
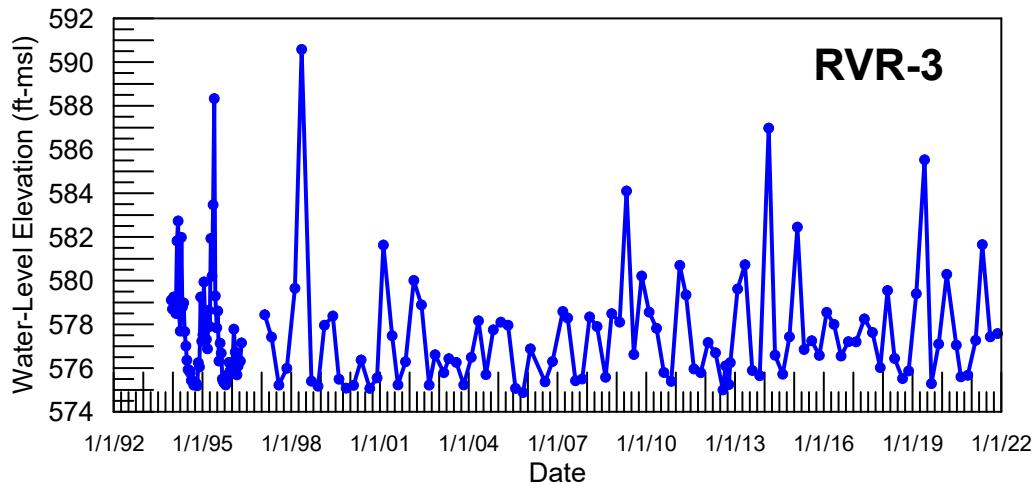
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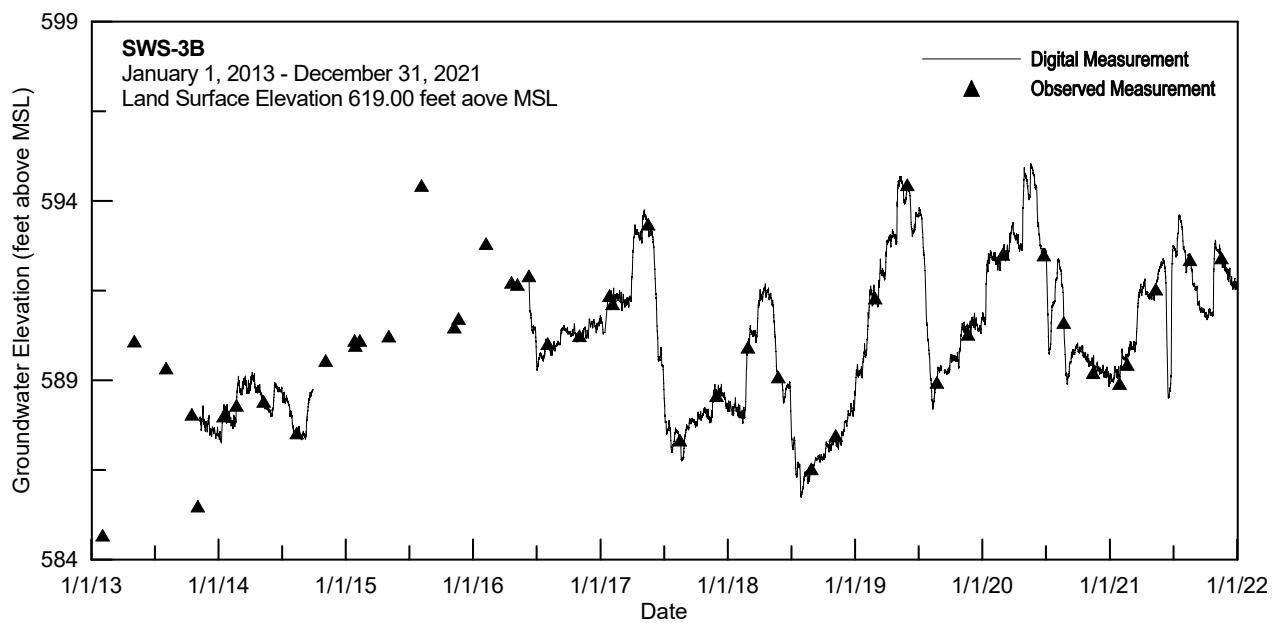
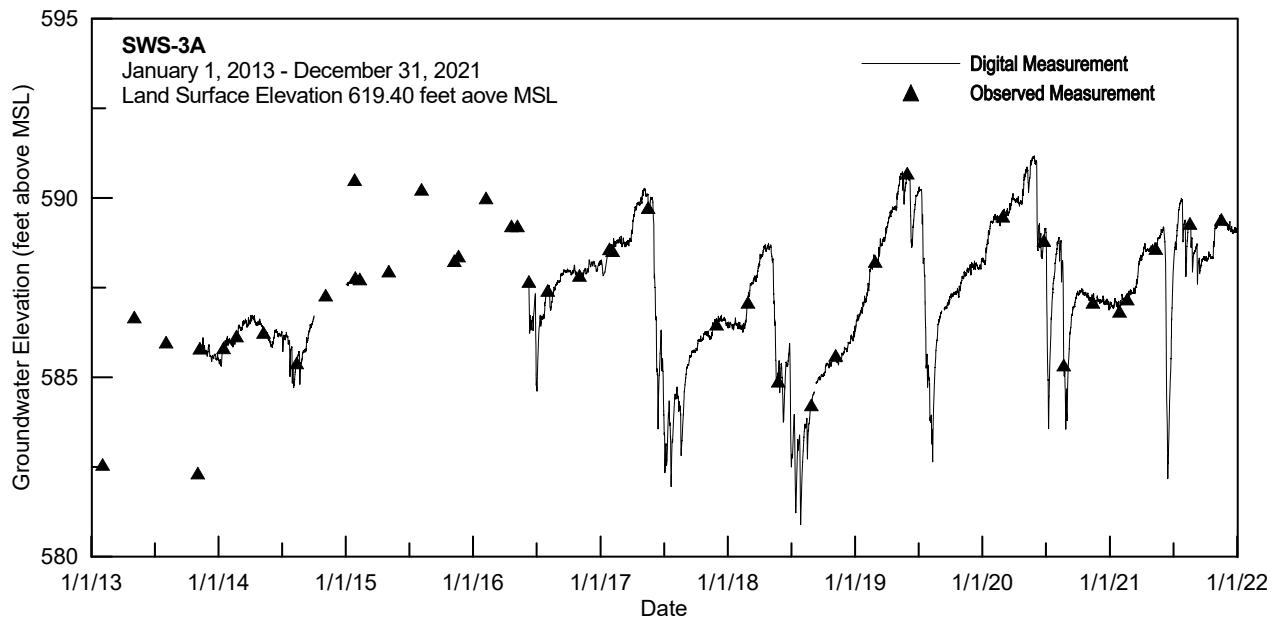
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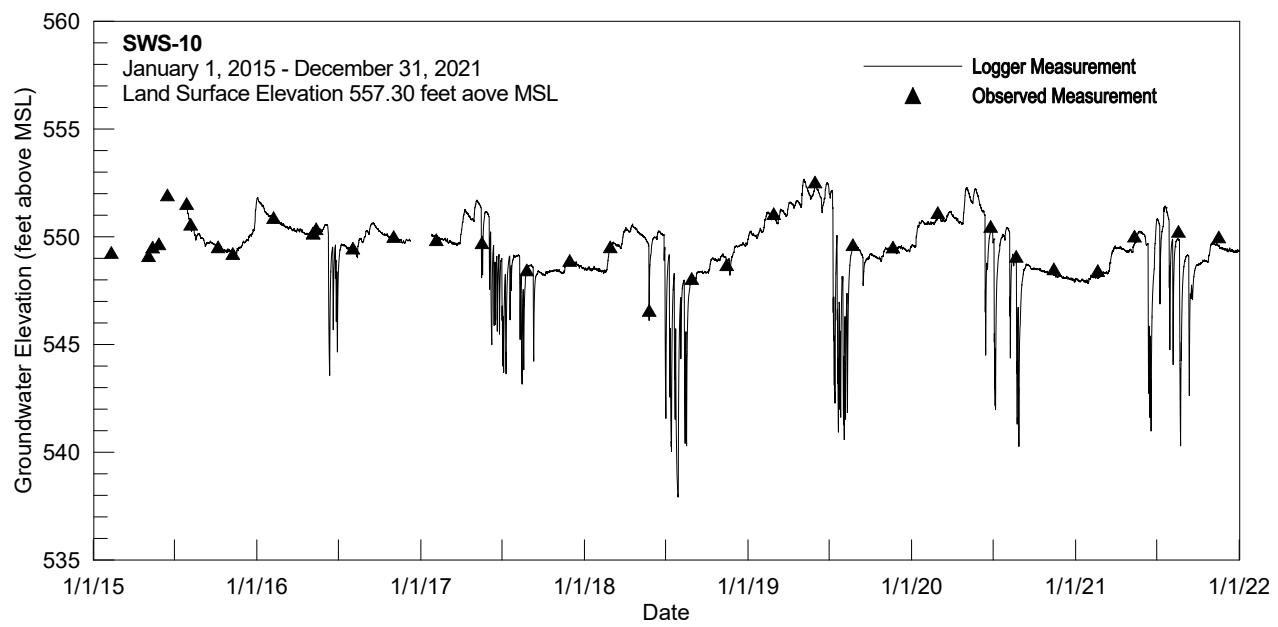
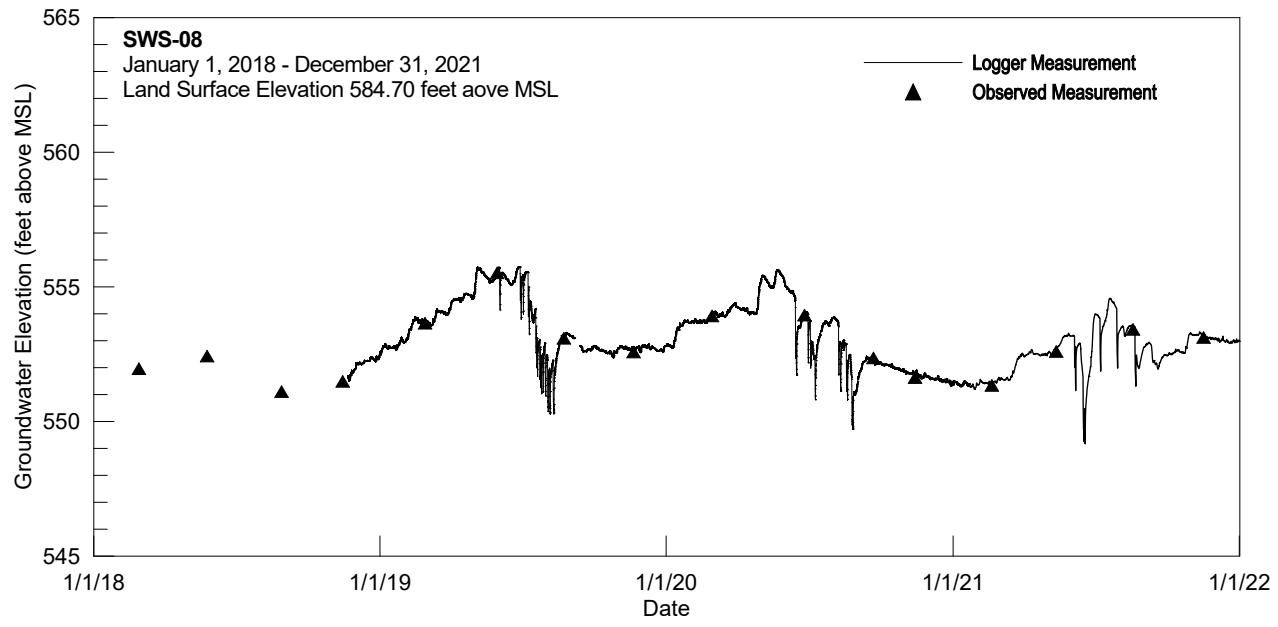
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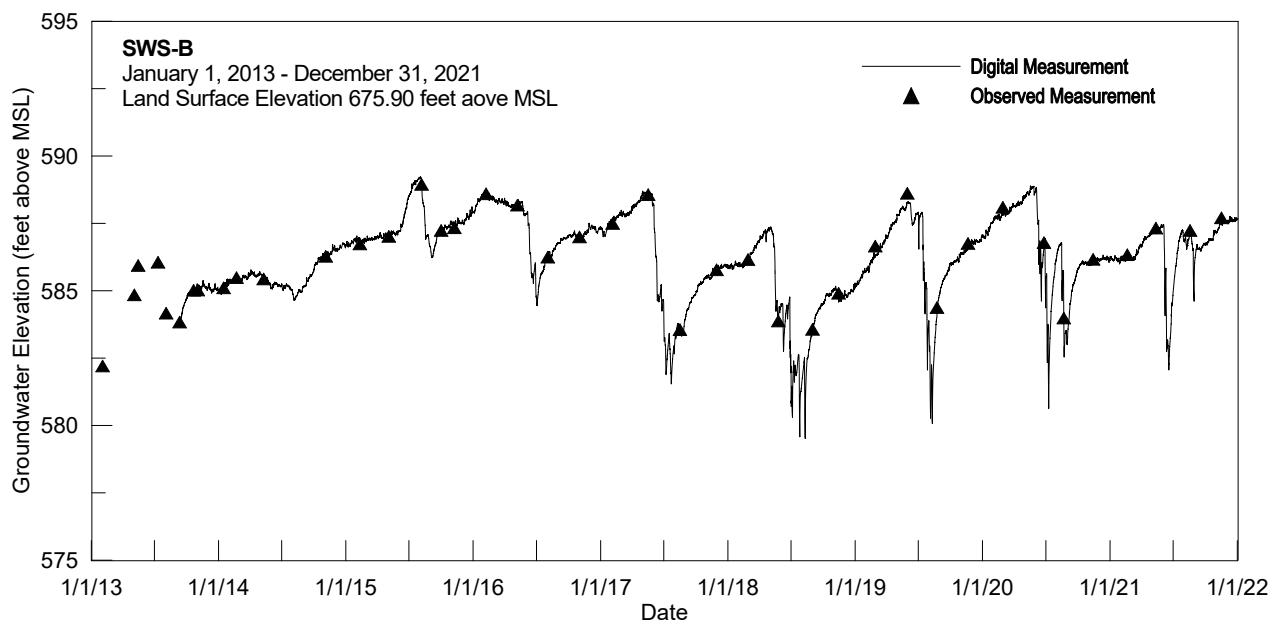
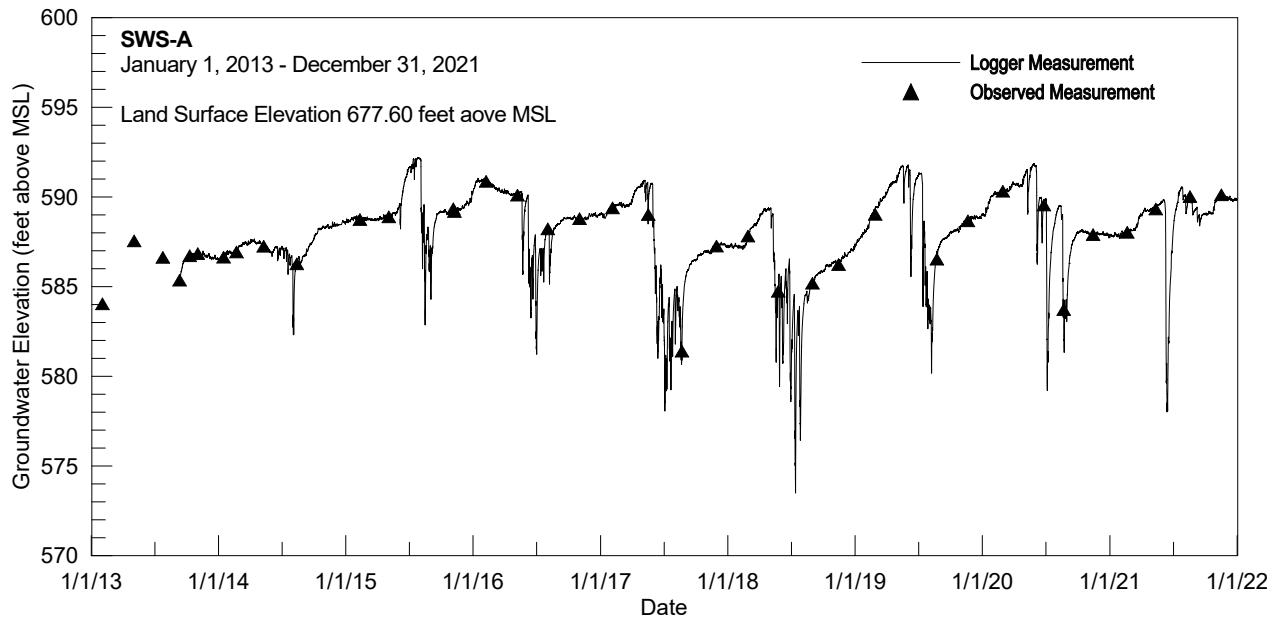
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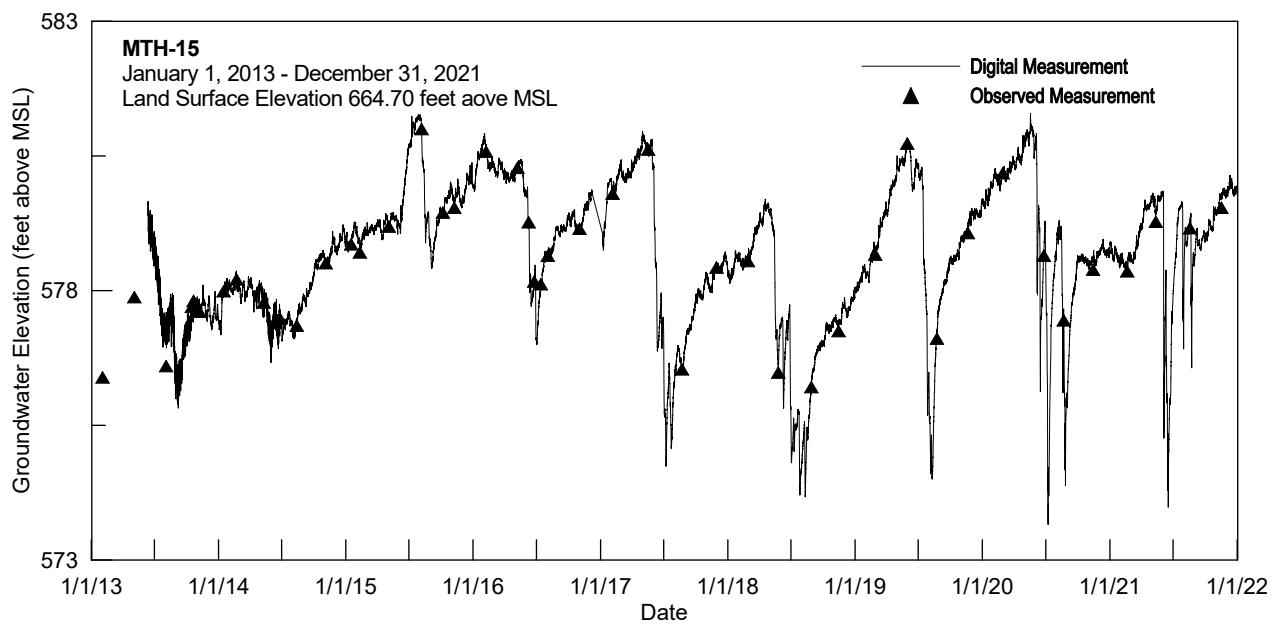
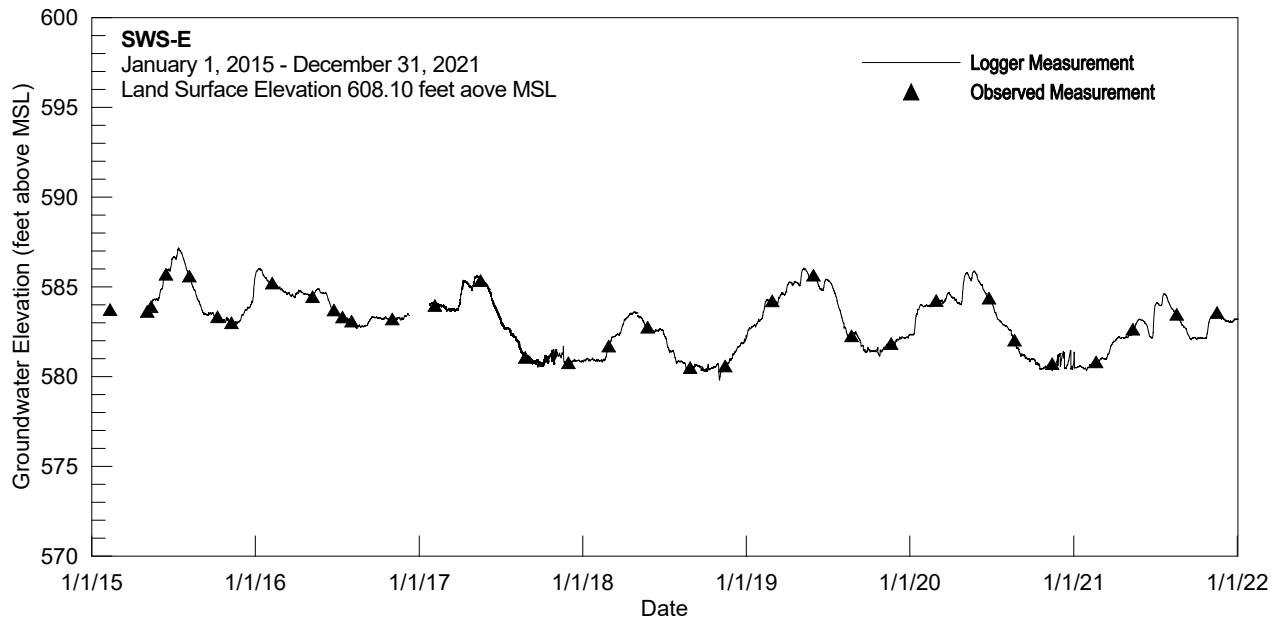
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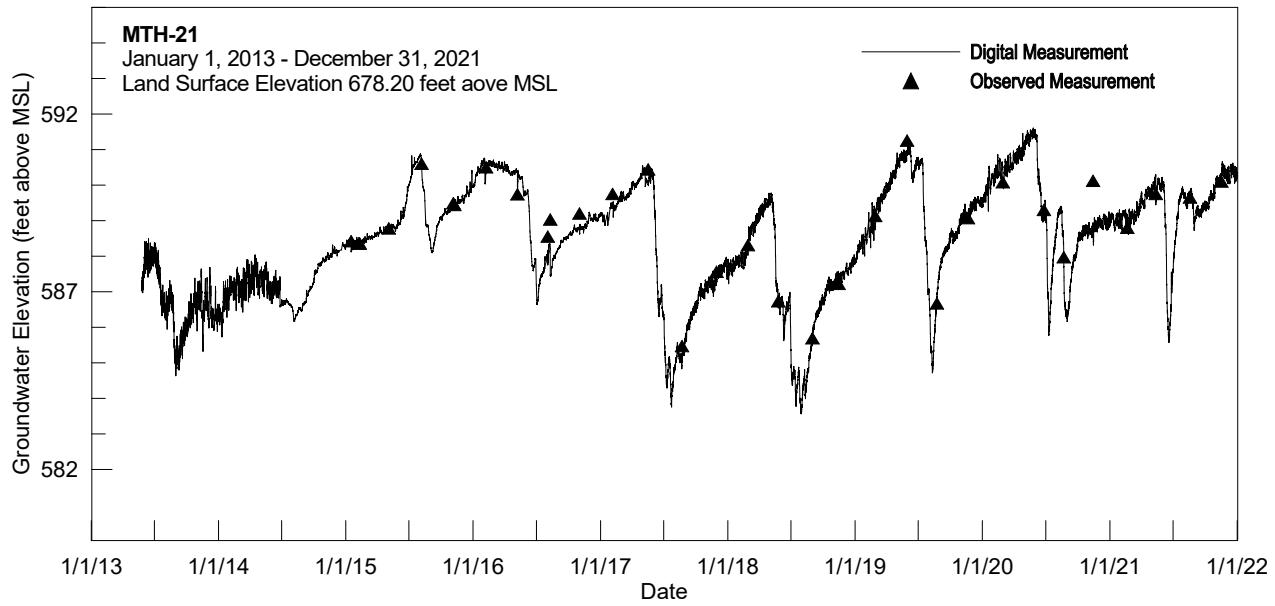
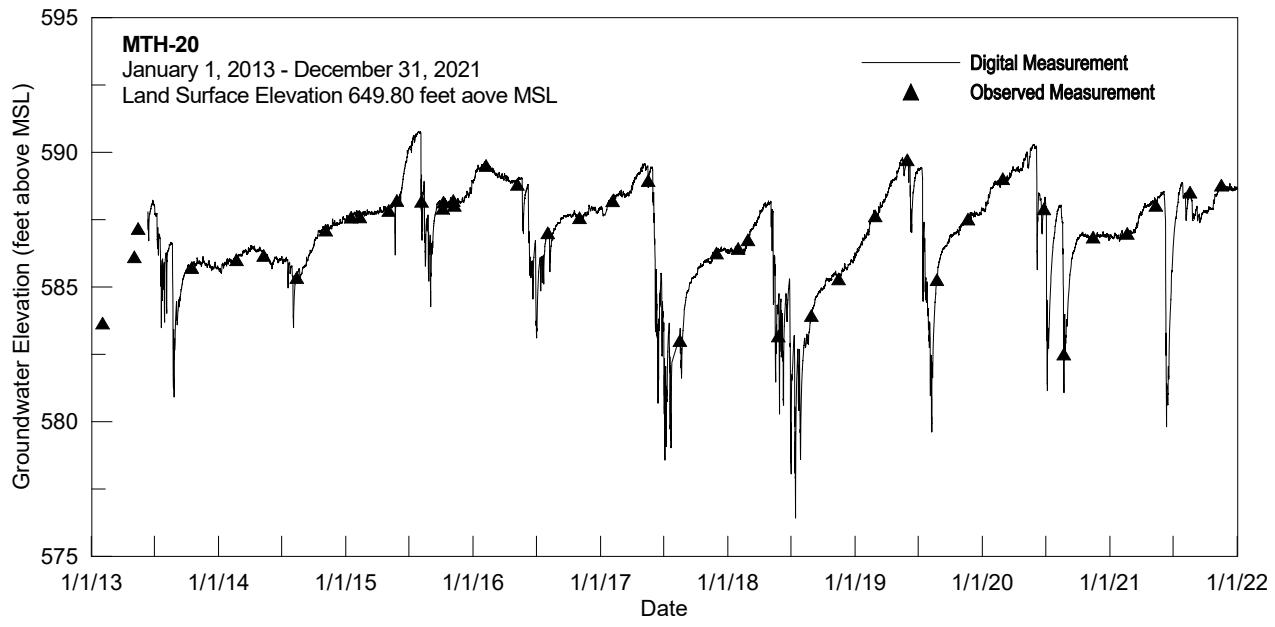
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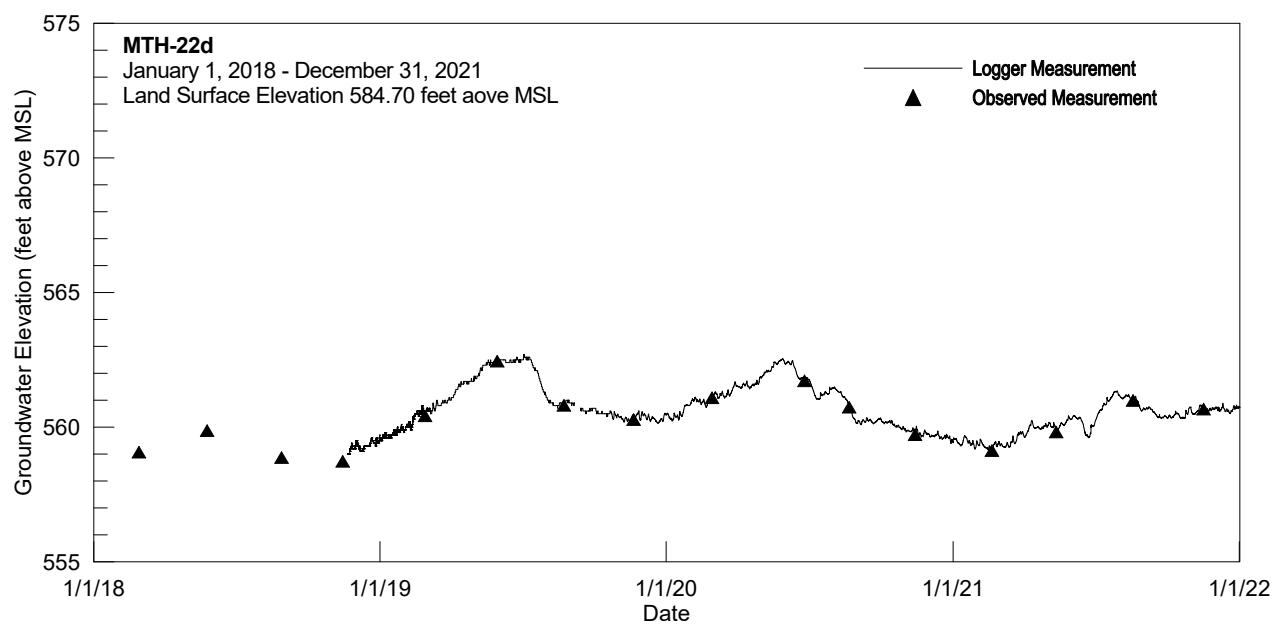
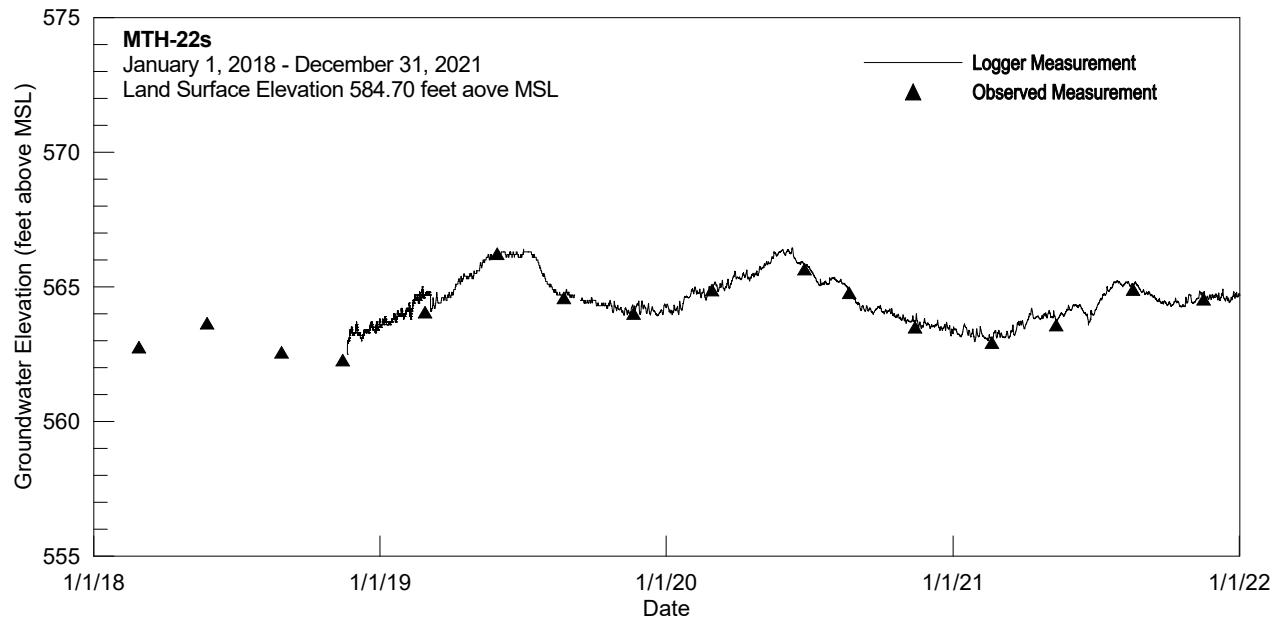
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