



**2025 ARKANSAS GROUNDWATER
PROTECTION AND MANAGEMENT REPORT**

Arkansas Department of Agriculture

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Executive Summary

The Arkansas Groundwater Protection and Management Report is produced annually by the Arkansas Department of Agriculture (Department) pursuant to the Arkansas Groundwater Protection and Management Act of 1991, Arkansas Code Annotated 15-22-906. This report provides a summary of groundwater protection and conservation programs administered by the Department during the years 2024 and 2025, including water-level monitoring and studies of water use trends in the state.

This report focuses on aquifer level and water quality data collected by the Department and its partners in 2025, but primarily features data from two major aquifers in the state, the Mississippi River Valley Alluvial (Alluvial) aquifer, the most important water resource for agricultural production in the state, and the Sparta/Memphis (Sparta), one of the state's best sources of good quality groundwater for drinking and industrial uses. Data collected from the Ozark aquifer has also been included in this report. The report assesses historical water level data for trends and compares synoptic water-level data collected in the spring of 2025 to historical synoptic water level data; typically, in one-, five-, and ten-year intervals. This report also examines data collected continuously, monthly, and quarterly to monitor the various aquifers responses to the stress conditions of 2024 and early 2025. Climate and water use data are considered along with water level data to explain the water level change results.

Aquifer-wide water level data from the Alluvial aquifer collected during the pre-irrigation period of spring 2025 showed positive one-year and ten-year average change values and a decrease in the five-year average. Aquifer-wide water level data from the Sparta showed a minor decrease, while the five-year and ten-year averages showed increases. Maps depicting spring 2025 water level elevations and one-, five-, and ten-year water level change are presented in this report. Numerous water level hydrographs are also presented across both aquifers to illustrate water level trends over time.

It is critical to remember that, overall, Arkansas is withdrawing groundwater from the Alluvial and Sparta aquifers in Eastern and Southern Arkansas at a rate above that which has been estimated to be sustainable. Some wells in areas with historical water-level declines do appear to show a slowing of the decline, or in some cases a rebounding trend in water level in recent years; however, it is difficult to determine the primary causes for the rebounding trends. It is speculated that above average precipitation in previous years, coupled with water conservation efforts and efficiency programs that have been implemented in recent years may be having the desired effect in some areas of these aquifers, but this has not been thoroughly studied. Further research and analysis of these areas and the many factors that determine their groundwater usage may give valuable guidance for future efforts to protect groundwater reserves. The Department should continue to work with partners to monitor these resources and promote conservation, education, and the conjunctive use of ground and surface water at rates that are sustainable for current and future water use needs.

Introduction

This report is prepared in accordance with Arkansas Groundwater Protection and Management Act of 1991, Arkansas Code Annotated 15-22-906, to provide the State of Arkansas with a comprehensive water-quantity and water-quality document to be utilized, along with the Arkansas Water Plan, as a guide for water resources conservation and protection programs. It includes data, analysis, and recommendations for the groundwater protection and management program, as well as water well construction data.

This report focuses on the two most used aquifers in the state, the Mississippi River Valley Alluvial (Alluvial) aquifer and the Sparta/Memphis (Sparta) aquifer. Data collection for the program is dependent upon a strong partnership with other state, federal, and local water resources agencies. An annual monitoring schedule has been established to collect water level data from the Alluvial and Sparta aquifers. Historically, approximately 300–400 wells are monitored in the Alluvial aquifer each spring, and approximately 100–200 wells are monitored each year for water levels in the Sparta aquifer. In 2025, water level data was collected from approximately 287 wells in the Alluvial aquifer and 157 wells in the Sparta aquifer during the spring. In addition to the spring measurements, synoptic Alluvial aquifer water level measurements are collected in the fall to gauge aquifer drawdown once irrigation has ended for the year. Historically, the fall water level collection is not as comprehensive as the spring effort, but 222 wells were measured this year that shared data with wells measured in the spring. The number of wells monitored will vary from year to year depending on the resources available, well accessibility, and other factors.

There are areas of the state experiencing groundwater withdrawals of such magnitude that demand on the aquifer exceeds the sustainable yield, resulting in consistently falling groundwater levels and the development of cones of depression. These areas occur in both the Alluvial and Sparta aquifers. Water-level declines are consistently observed in areas where water use is highest, underlying geologic conditions limit recharge, or both, such as portions of the Grand Prairie and Cache study areas for the Alluvial and in the South Arkansas study area for the Sparta.

In addition to the great effort to collect synoptic water level data in the Alluvial and Sparta aquifers for groundwater quantity assessment, the state is interested in groundwater quality data in these aquifers and others across the state. The Department collects groundwater quality data through a long-standing partnership with the U.S. Geological Survey (USGS), which maintains the Groundwater Salinity and the Arkansas Masterwell Network programs. The Groundwater Salinity Program is focused on collecting basic field parameters and chloride and bromide concentrations in an established well network in the Alluvial aquifer and Sparta aquifer. The Masterwell Network is a long-term groundwater quality network that is comprised of 47 active wells and springs in 14 different aquifers across the state. See the Groundwater Quality section of this report for more information and sampling results from both programs in 2025.

Water Policy

Water resources policy in Arkansas was established in the Arkansas Water Plan, in which the Department identifies conservation, education, and the conjunctive use of ground and surface water, along with the development of excess surface water, to meet future water use needs. The Department's strategic goal is for protection of the state's groundwater resources to be achieved through these measures rather than management strategies that may require allocation of water. All water use strategies must consider the wise use of our state's water resources while protecting the state's aquifers. The Department recommends that the state continue to move toward a sustainable-yield pumping strategy through conservation and utilization of critical groundwater area designations where needed to focus resources. Designation as a critical groundwater area fosters conservation by offering enhanced tax credit benefits for conservation practices through the state's Water Conservation Tax Credit Program, by increasing educational outreach, and by qualifying the area for federal programs and funding. A critical groundwater area is a non-regulatory designation; regulation cannot be initiated without a new process involving legal proceedings, additional notice, and public hearings. Figure 1 presents the groundwater study areas, while Figure 2 presents the critical groundwater areas as designated.

Arkansas Groundwater Study Areas

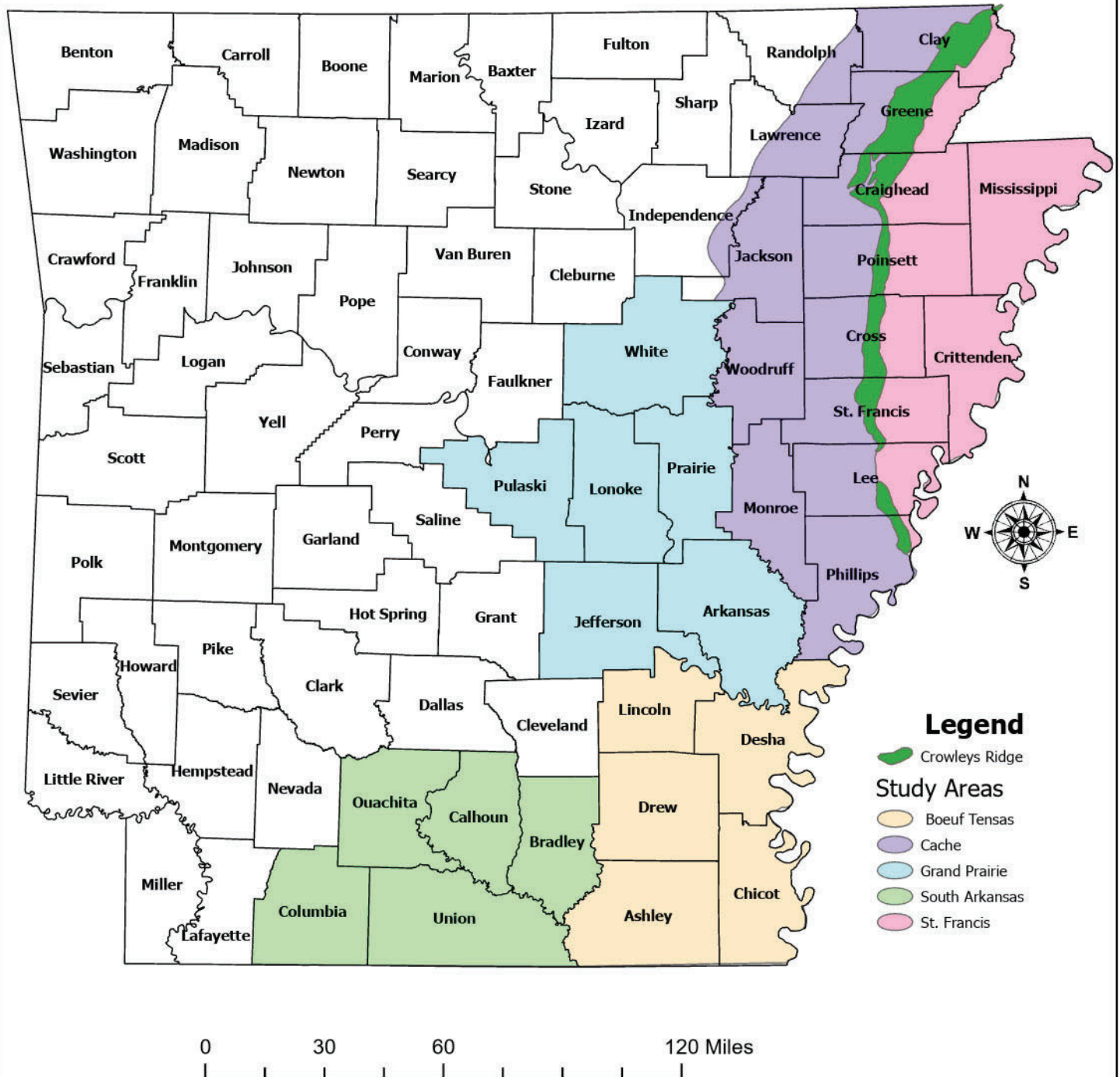


Figure 1

Critical Groundwater Areas

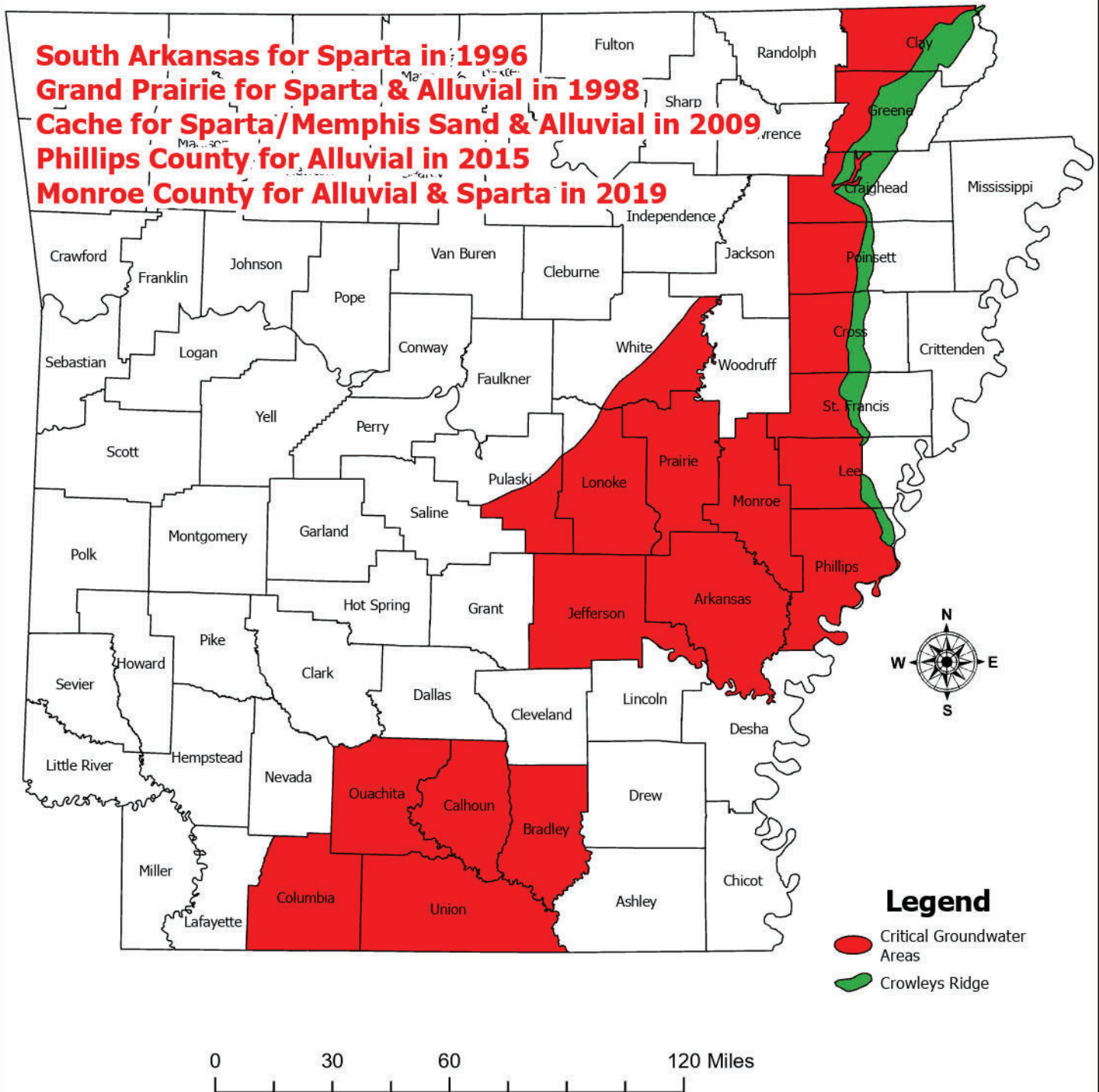


Figure 2

Hydrogeology and Water Level Trends

Mississippi River Valley Alluvial Aquifer

The Mississippi River Valley Alluvial (Alluvial) aquifer is the uppermost aquifer in the Mississippi Embayment and is composed of 50-150 feet of sand and gravel, grading from coarse gravel at the base to fine sand at or near the surface. It is generally overlain by the Mississippi River Confining Unit, which is typically composed of up to 50 feet of fine-grained sand, silt, and clay. Some areas, such as the Grand Prairie region and smaller areas adjacent to Crowley's Ridge, can have a confining unit thickness of as much as 120 feet, and the thickness of the confining unit is generally most variable where it is thicker (Gonthier and Mahon, 1994). For this report, the term Alluvial aquifer refers to the portion of the aquifer, including the confining unit, inside the state boundaries of Arkansas and the extent of the Mississippi River Alluvial Plain; generally, the fall line or contact with outcropping tertiary formations to the west, the Mississippi River to the east, and the state lines to the north and south. The Alluvial aquifer is connected hydraulically with several rivers and drainage areas (Ackerman, 1996); these connections are reflected by generally higher water levels and higher percent saturation near major rivers (see Figures 3-5).

Static water level measurements were collected from 287 wells across the Alluvial aquifer prior to the irrigation season in 2025. Due to widespread flooding, the majority of the spring water-level measurements were delayed until May 2025 to allow the floodwater to recede and for potential additional recharge to the aquifer. As a result of this delay in timing and sustained flooding, some of the spring 2025 measurements may not be fully representative of baseline conditions, particularly where the confining unit is missing or where wells are close enough to major rivers for water levels to have been directly influenced by surface water conditions. Figure 3 presents the potentiometric surface data as altitude relative to mean sea level. The spring 2025 potentiometric surface in the was calculated using water levels from the 287 individual wells. Figure 4 presents the depth to water in the Alluvial aquifer as feet below ground surface. Figure 5 presents the percent saturated thickness of the Alluvial aquifer as a percentage of the total aquifer thickness. The percent saturated thickness was calculated by dividing the saturated thickness by the total aquifer thickness (including the confining unit) on an aquifer-wide basis. This method differs from previous reports, which interpolated percent saturated thickness in the Alluvial aquifer from individual well calculations rather than by using aquifer-wide raster data. The general trends of saturated thickness (<50% saturated areas primarily in the Grand Prairie and Cache critical groundwater areas) remain largely unchanged between the two methods. Alluvial aquifer bottom elevations used to calculate thickness of the aquifer were obtained from the USGS Scientific Investigations Map 3426 (Torak, 2019). The areas of most significant depletion continue to be the historical cones of depression in the Grand Prairie and Cache River regions.

Beginning with the 2022 report, Alluvial aquifer thickness values used to calculate saturated thickness were obtained from the USGS Scientific Investigations Map 3426 (Torak, 2019). The methodology for saturated thickness calculation has been updated again in this report to include a

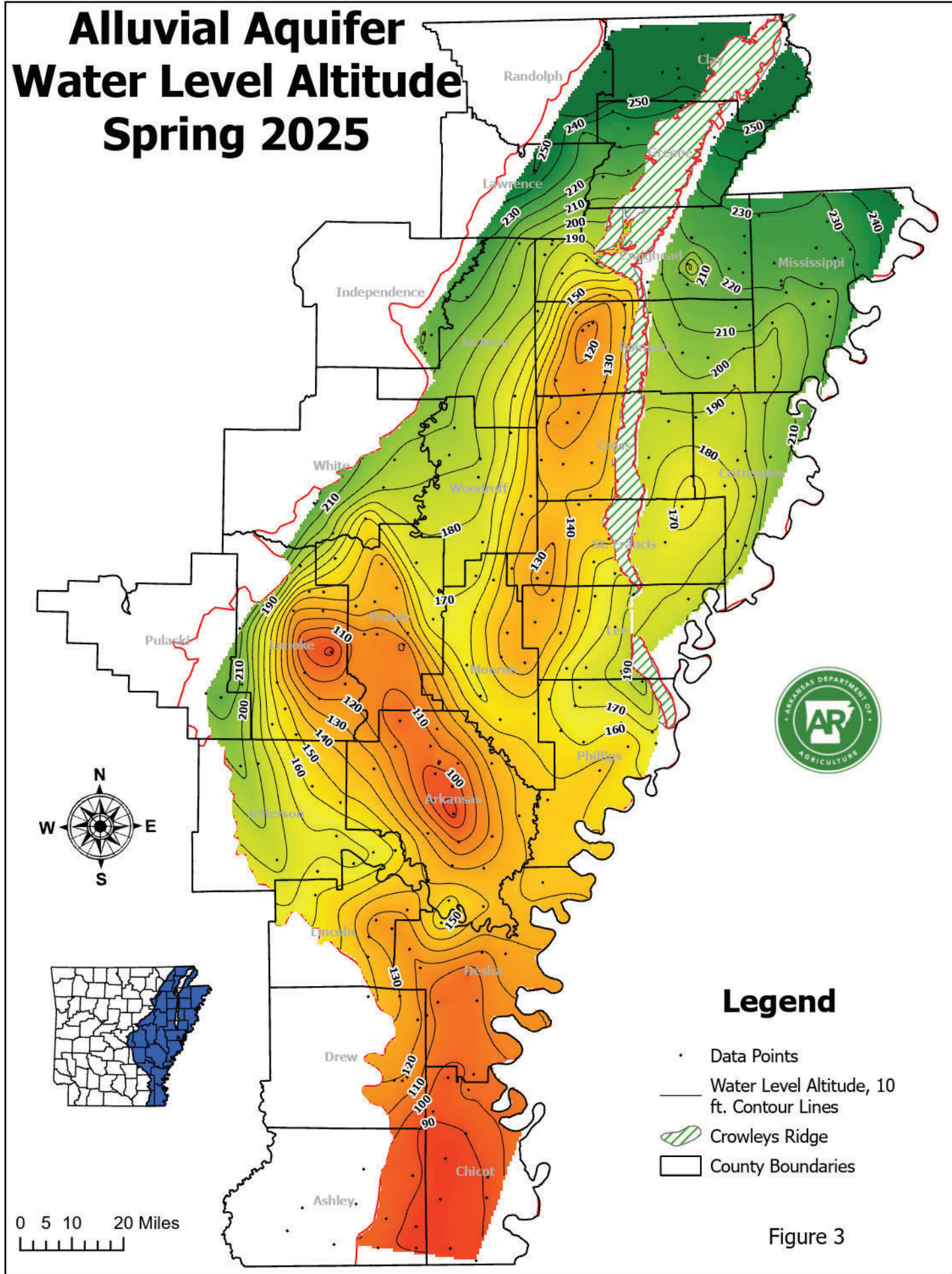
kriged surface to represent the base of the Alluvial aquifer. These changes have resulted in some minor differences in the saturated thickness values compared to previous reports but should result in aquifer thickness and saturated thickness values that more closely represent the productive portion of the aquifer in the area of interest.

Within the Grand Prairie cone of depression, the 2025 water level data shows that the area below 50 percent remains prominent in Lonoke, Prairie, and Arkansas counties. Within the Cache cone of depression, Craighead and Poinsett counties remain primarily below 50 percent saturated thickness west of Crowley's Ridge.

Water level data will continue to be collected in these areas to verify the data presented here, and the Department will continue to investigate the aquifer thickness calculations to ensure that these estimations are accurate.

Research efforts by our USGS partners are currently underway to refine the aquifer thickness estimates using advancements in subsurface modeling technology. As this research is completed, we expect there will be minor changes to the estimates presented here, but it is also expected that the new estimations will be closer to the values used in this report than the values from Mississippi Embayment Regional Aquifer Study (MERAS) used in previous reports. Any further recommendations for these areas, such as a critical groundwater area designation, will be made when the aquifer thickness values can be verified using the new subsurface modeling data.

Alluvial Aquifer Water Level Altitude Spring 2025



Alluvial Aquifer Depth to Water Spring 2025

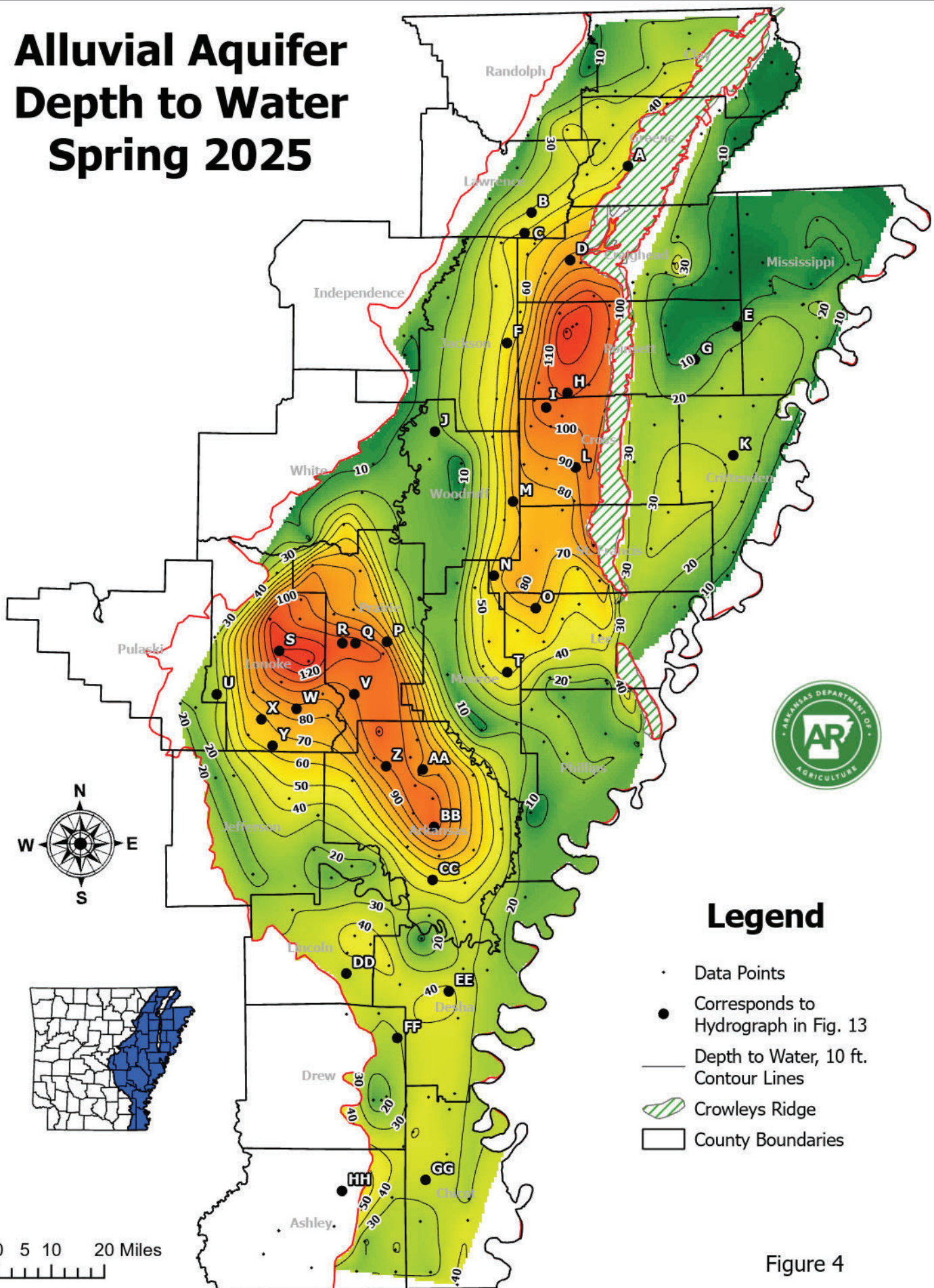


Figure 4

Percent of the Mississippi River Alluvial Aquifer Saturated at Specific Data Collections Sites, Spring 2025

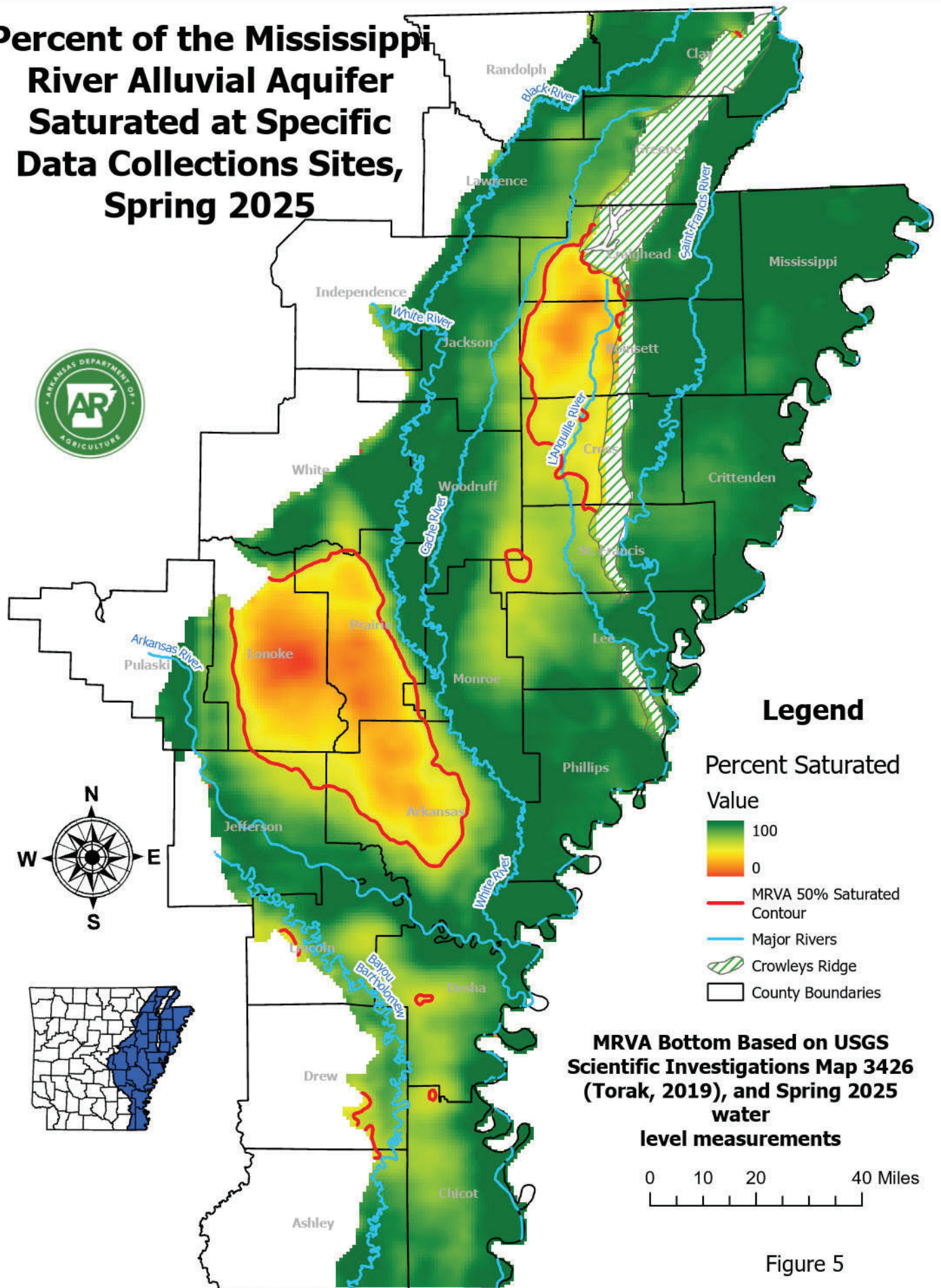


Figure 5

Precipitation and Weather Events

The amount of rainfall is considered in comparison with the water level change during times of drought or excess rainfall. Years of abundant precipitation can benefit the Alluvial aquifer by increasing the ability for the aquifer to recharge naturally and by reducing the demand for groundwater, especially adequate amounts of rainfall throughout the growing season (March through September). In 2024, the total average precipitation was 54.69 inches, 5.09 inches more than the annual average and 2.27 inches above 2023. During the 2024 growing season, June and August both received at least one inch of precipitation less than the historical average, and the remaining growing season months were near the average values or slightly above. Figure 6 shows the statewide monthly average precipitation for 2024 compared with the normal average monthly values.

Arkansas has received average to above average rainfall for most years since 2011. During this period, the average water level change across the Alluvial aquifer has generally been trending upwards, with the notable exception of 2021. The spring 2024 to 2025 average water level change comparison exhibits a positive average change value of 0.84 feet. Figure 7 compares the statewide annual average precipitation to the average change in water levels in the Alluvial aquifer from 1997 to 2024. Figure 8 presents data from the National Weather Service illustrating the total monthly precipitation received as a departure-from-normal value across the Mississippi River Valley Alluvial Plain for the 2024 growing season (NOAA, 2025).

2024 Statewide Average Monthly Precipitation vs. Historic Average

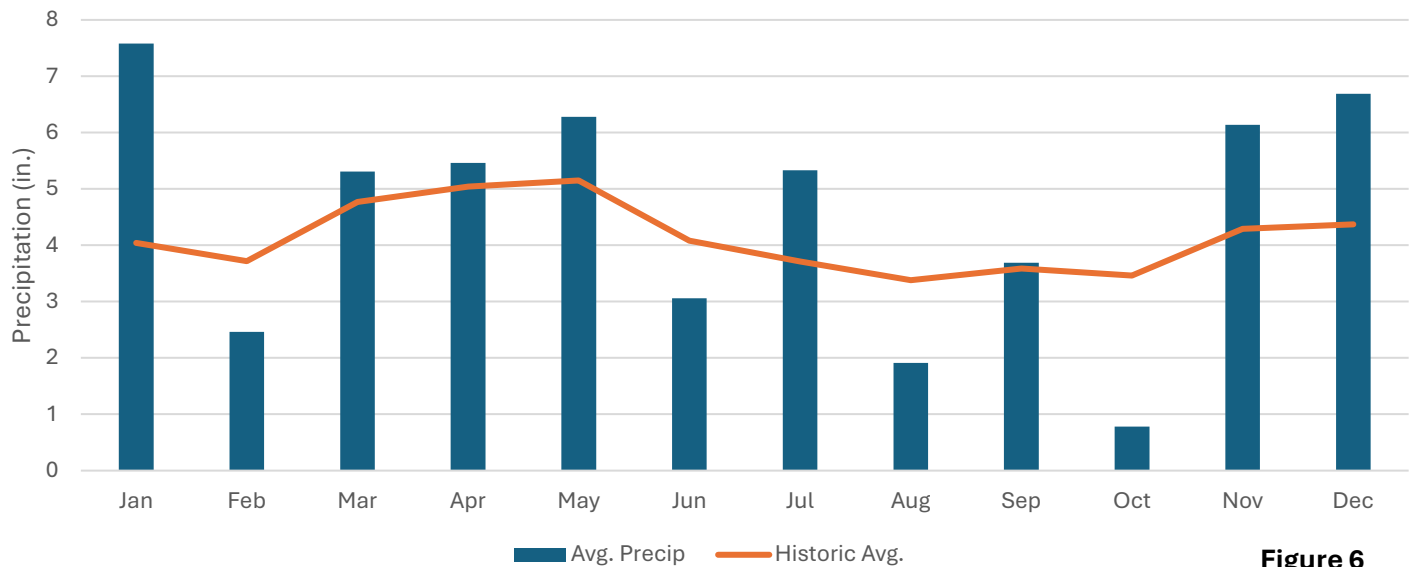


Figure 6

Statewide Average Annual Precipitation and Historic Precipitation Average vs. Annual Alluvial Pre-Irrigation Water Level Change

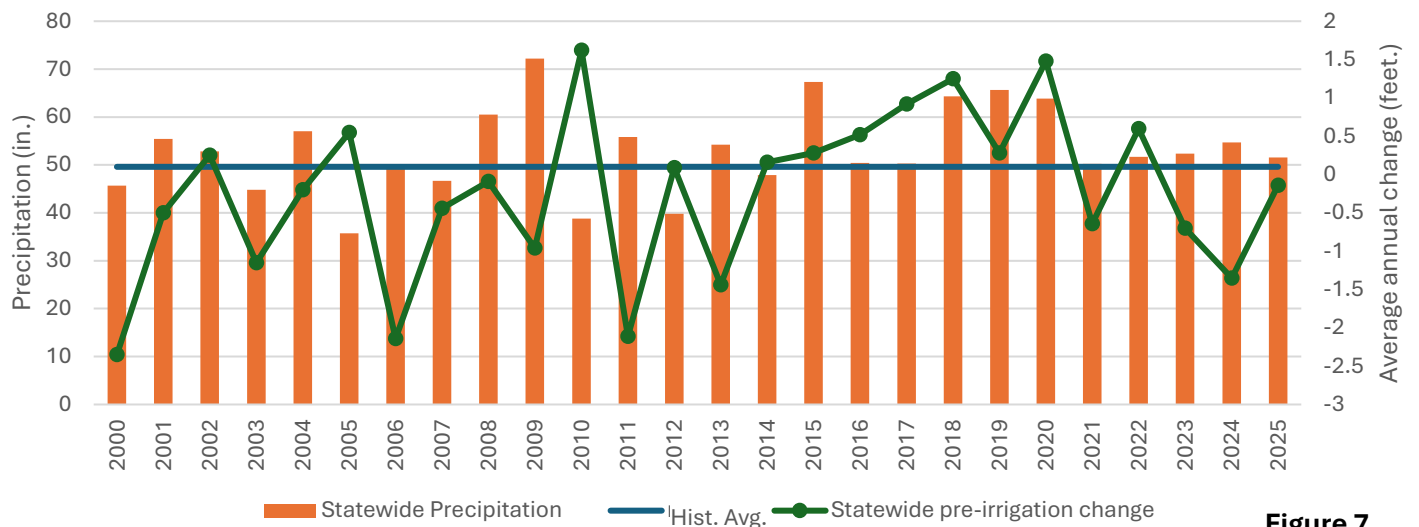
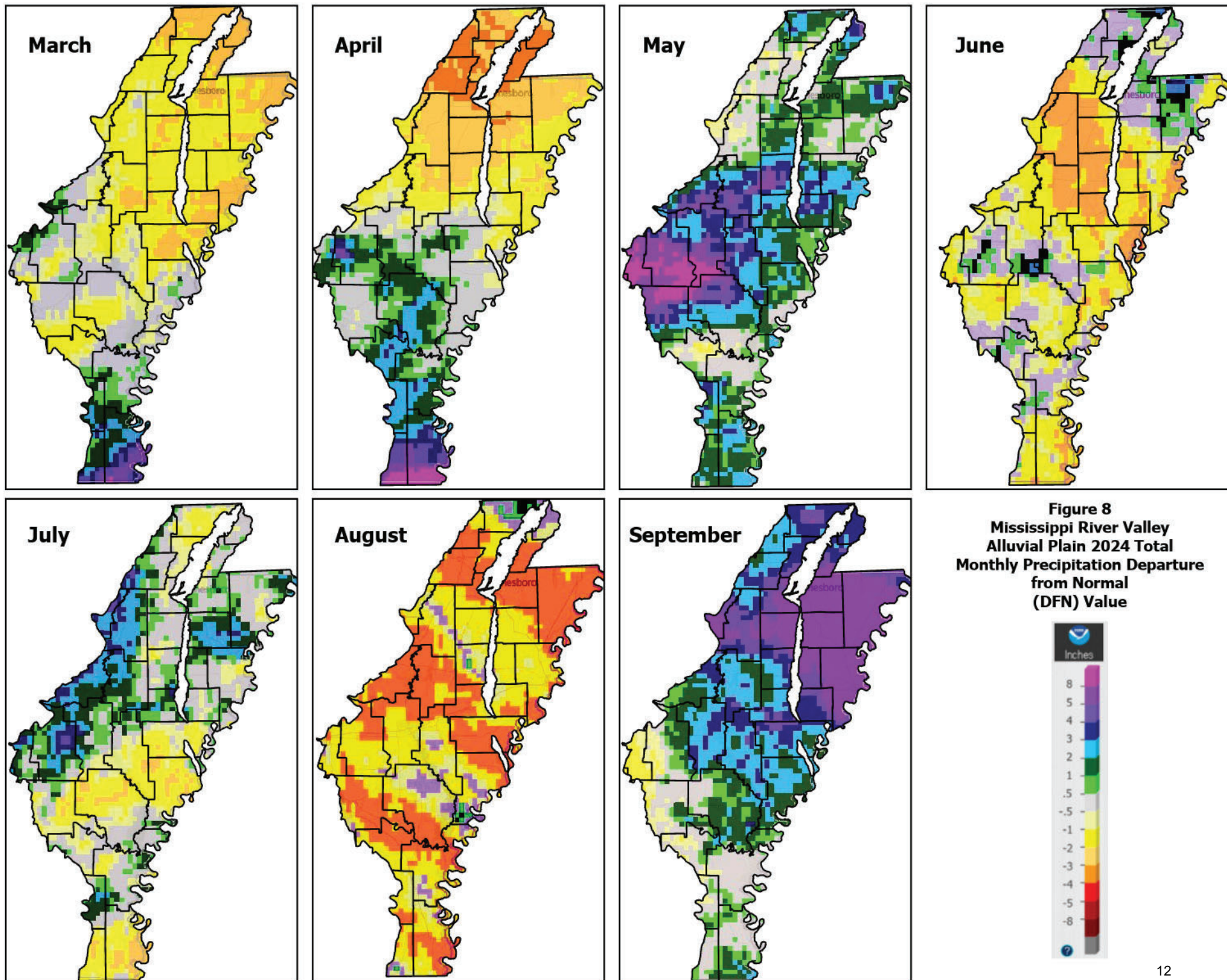


Figure 7



Water Level Trends

Aquifer-wide historical water level data from the Alluvial aquifer between 2010-2025 were assessed with the Mann-Kendall/Sen's slope test, a non-parametric statistical method commonly used for determining the presence (Mann-Kendall) and rate of change (Sen's slope) of time series data trends in natural systems. Annual pre-irrigation water levels from wells with at least eight values from the period of interest were used for trend tests, and Figure 10 presents the results of the Mann-Kendall portion of the test. Complete results of the Mann-Kendall/Sen's slope test for each well are presented in Appendix C. Additionally, water level data from the current year were compared with previous data on a well-to-well basis in one-, five-, and ten-year intervals to further illustrate the water level change of the aquifer over time. An overview of results can be seen in Figure 9 below, and results are mapped in Figures 11 through 13 below.

The aquifer-wide data has typically been focused on the four study areas comprising the Alluvial aquifer: Cache, Grand Prairie, St. Francis, and Beouf-Tensas. Results from trend tests and one-, five-, and ten-year interval comparisons show that water level declines continue to be primarily concentrated in the Cache and Grand Prairie study areas where historical declines have been significant, particularly where recharge is limited by either distance from a major surface water source (e.g. the Arkansas, White, and Mississippi rivers), significant confining unit thickness, or proximity to aquifer boundaries (such as Crowley's Ridge in the Cache critical groundwater area). These results show a continued decrease across the entire Cache study area, including to the south of the historic cone of depression in St. Francis and Lee counties, between 2010-2025. Within the Grand Prairie study area, wells in the southeast portion of the historically stressed area near Stuttgart and Dewitt show relatively stable or gradually increasing trends in water levels (approximately 0.25feet/year or less) from 2010-2025. A cluster of wells in the northwestern portion of the Grand Prairie study area north of Lonoke/Carlisle at the Alluvial aquifer's western margin shows decreasing water levels with little exception, ranging from an approximate 0.25 feet/year to 0.75 feet/year decrease. Within the St. Francis study area (east of Crowley's Ridge), water levels are generally stable or increasing, and many wells show water levels above or near the bottom of the confining unit where present. Some wells in the Beouf-Tensas study area show evidence of stress, with a sparse cluster of wells southeast of Dumas showing water level declines of approximately 0.25 feet/year. Figures 16 through 27 depict the spring 2025 Alluvial aquifer water level change data and well locations for the four study areas over the one-, five-, and ten-year change intervals.

ALLUVIAL AQUIFER 1-, 5-, AND 10-YEAR INDIVIDUAL WELL COMPARISONS		
1-YEAR AVERAGE CHANGE	5-YEAR AVERAGE CHANGE	10-YEAR AVERAGE CHANGE
0.84 feet	-2.32 feet	0.77 feet
PERCENT OF TOTAL WELLS SHOWING DECREASE IN WATER LEVEL		
38.82%	80.85%	34.00%
92 of 237 wells	190 of 235 wells	51 of 150 wells

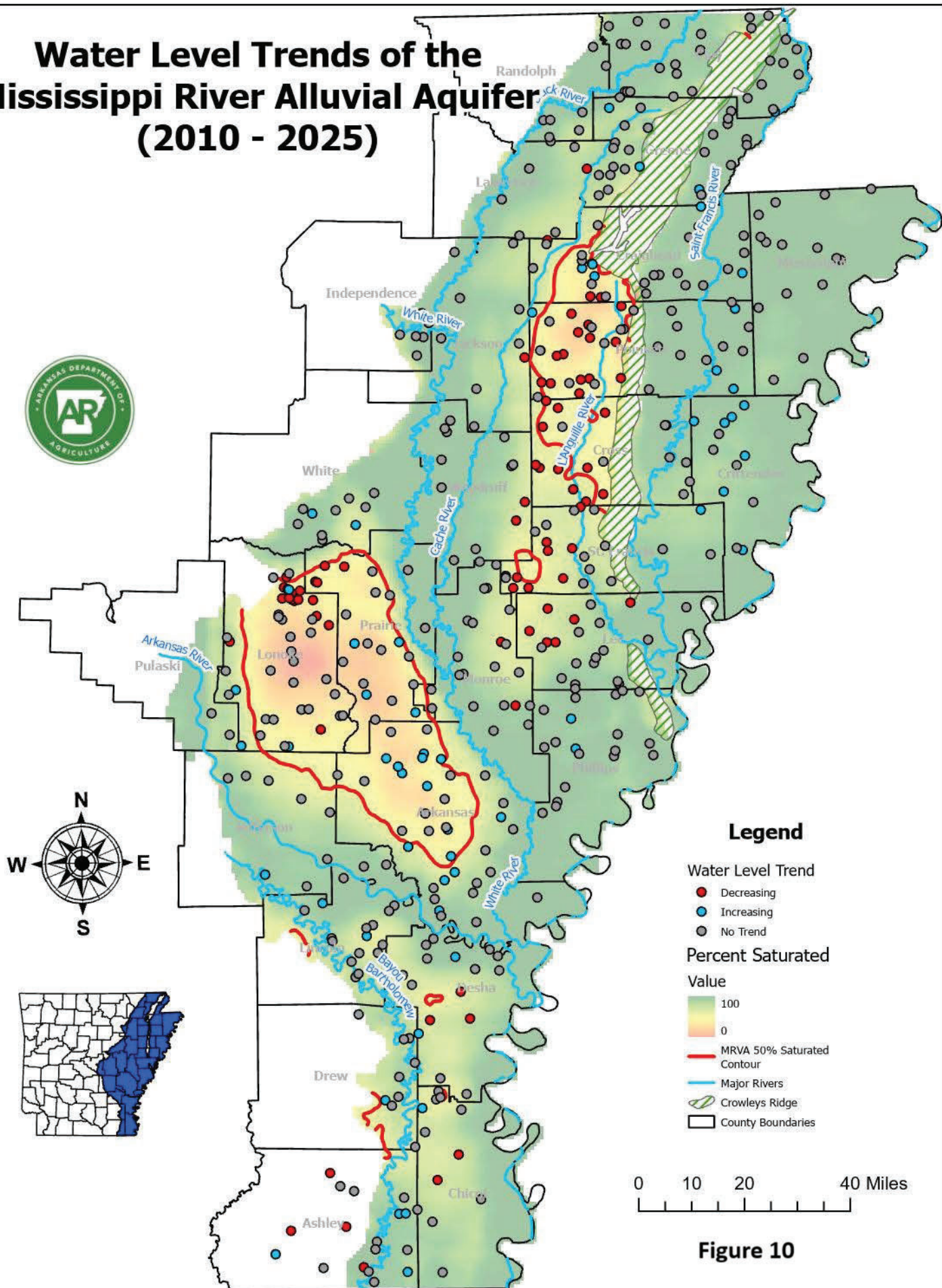
Figure 9: Alluvial Aquifer Synoptic Comparisons

To calculate average drawdown from irrigation during the growing season, 222 Alluvial aquifer wells were measured in the fall of 2025 that had also been measured during the spring. When compared, the total average change for spring to fall measurements was -4.12 feet, which is similar to the average change calculated over the last few years: 2019 (-2.90), 2020 (-3.32), 2021 (-2.80), 2022 (-3.42), 2023 (-4.06), and 2024 (-2.63). Figure 14 presents the spring to fall water level.

Selected water level hydrographs from the Alluvial aquifer are presented in Figure 15; the well locations are shown in Figure 4. These hydrographs are from monitoring wells maintained by the Department or the USGS and are measured semi-annually or more during the year or have real-time data loggers installed for continuous water level data.

Appendix A presents the 2025 aquifer water level data along with the 2015, 2020, and 2024 water level data for wells measured in 2025 as used in this report.

Water Level Trends of the Mississippi River Alluvial Aquifer (2010 - 2025)



Alluvial Aquifer 1 Year Change 2024 - 2025

Alluvial Aquifer
1 Year Change:

Average Change: +0.84 Ft.
92 of 237 Wells Showed
Declines

Percent of Total Wells in
Decline: 38.82%

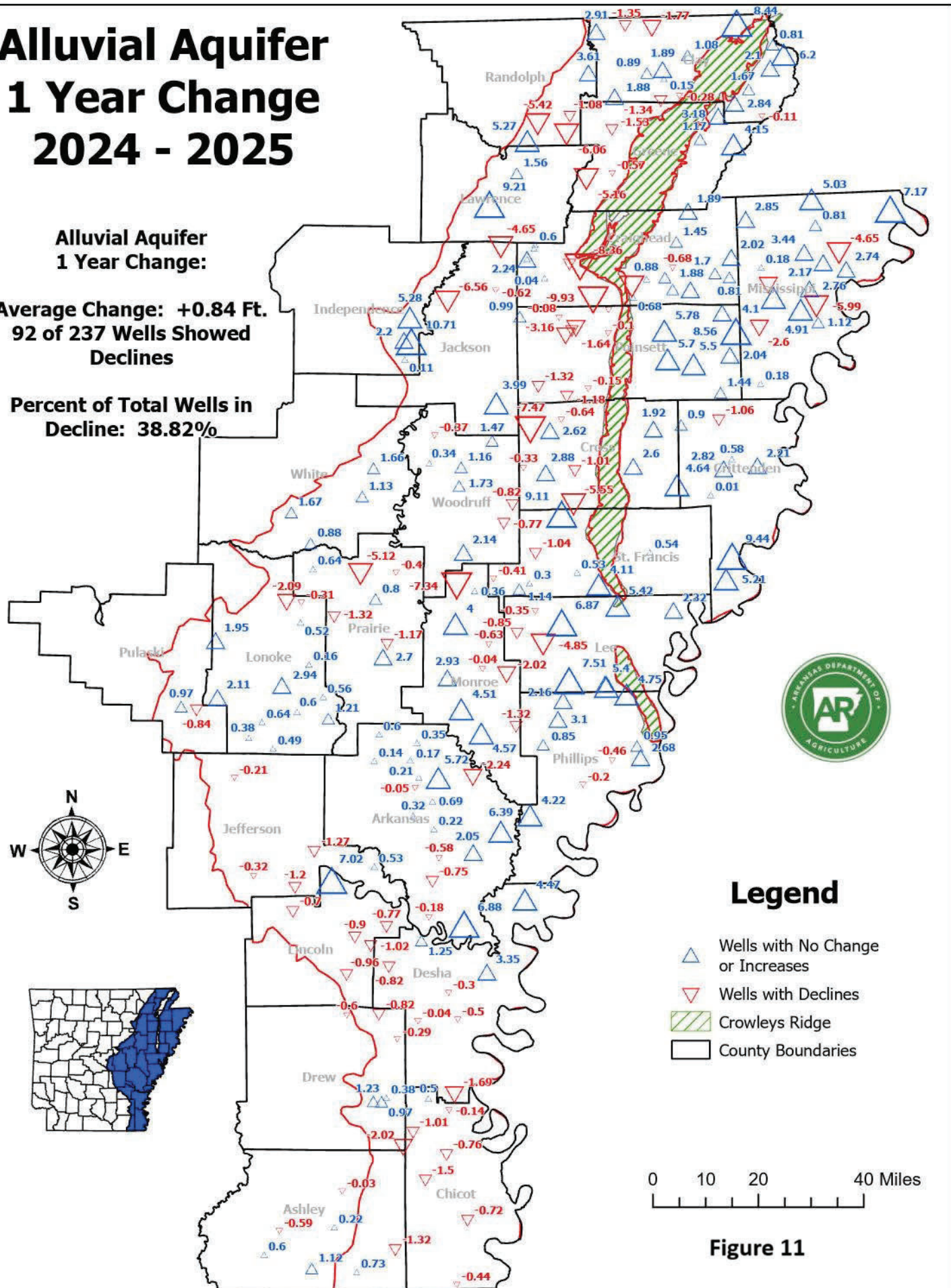


Figure 11

Alluvial Aquifer 5 Year Change 2020 - 2025

Alluvial Aquifer 5 Year Change:

**Average Change: -2.32 Ft.
190 of 235 Wells Showed
Declines**

Percent of Total Wells in Decline: 80.85%

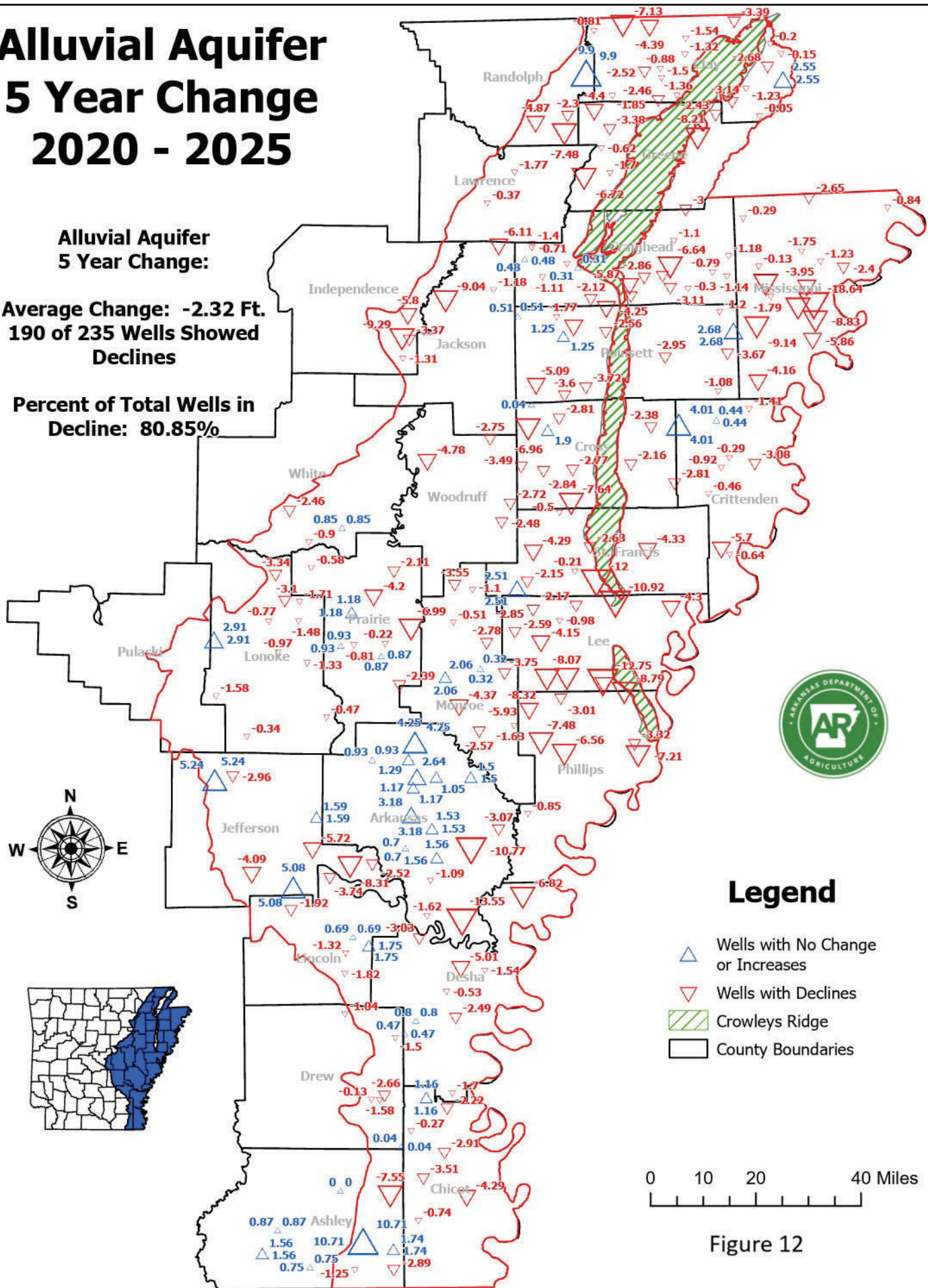


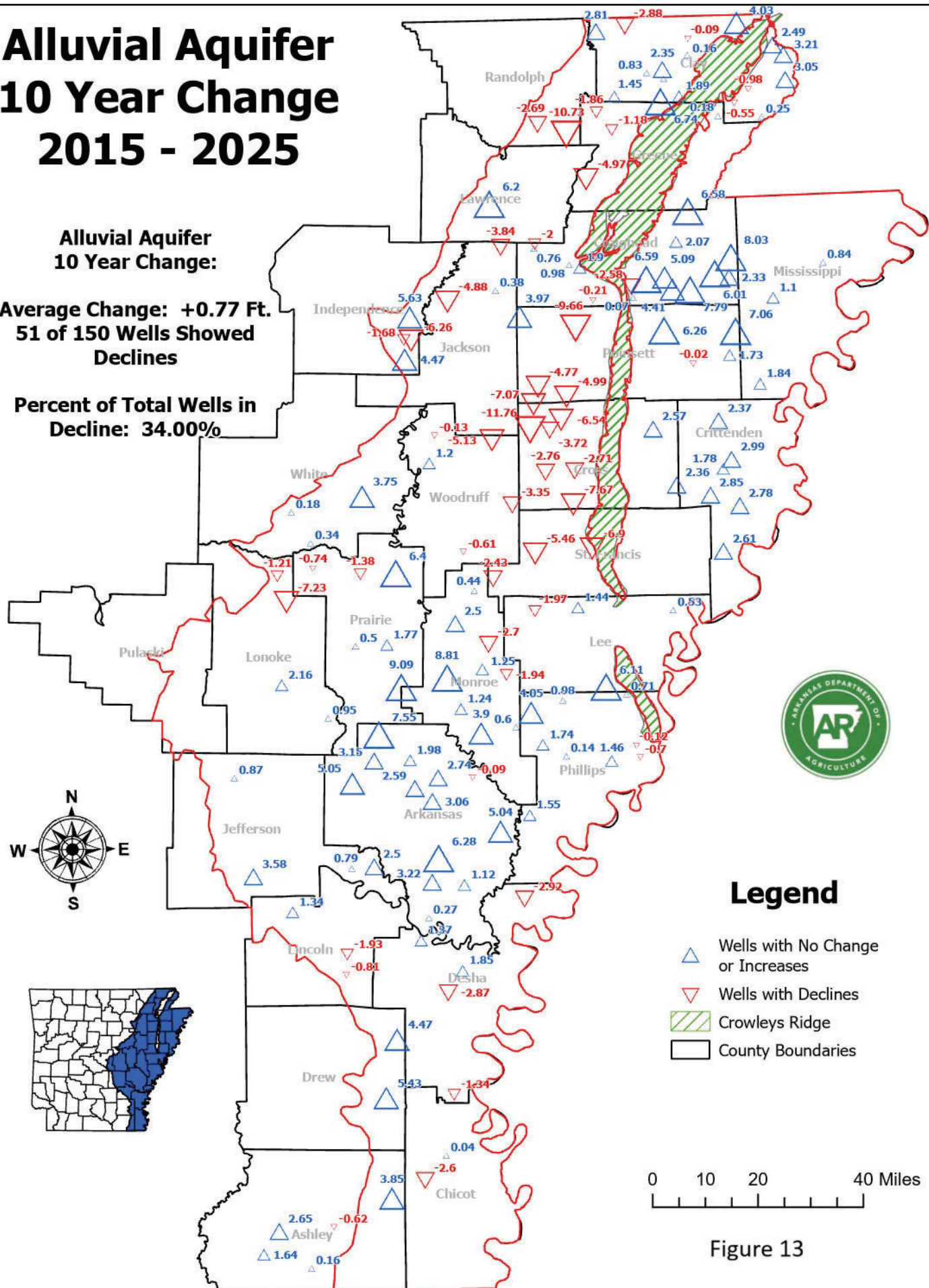
Figure 12

Alluvial Aquifer 10 Year Change 2015 - 2025

**Alluvial Aquifer
10 Year Change:**

**Average Change: +0.77 Ft.
51 of 150 Wells Showed
Declines**

**Percent of Total Wells in
Decline: 34.00%**



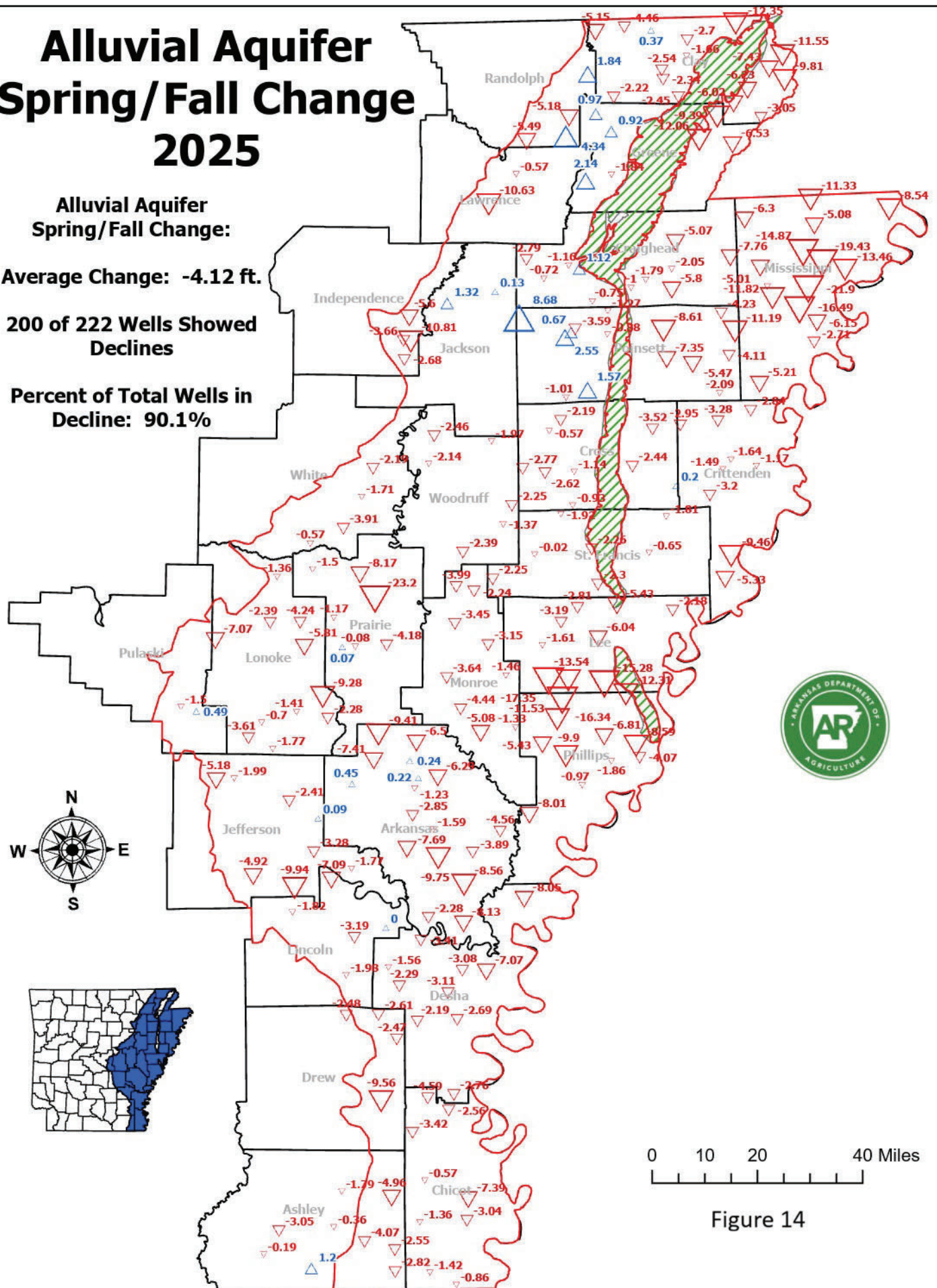
Alluvial Aquifer Spring/Fall Change 2025

Alluvial Aquifer
Spring/Fall Change:

Average Change: -4.12 ft.

200 of 222 Wells Showed
Declines

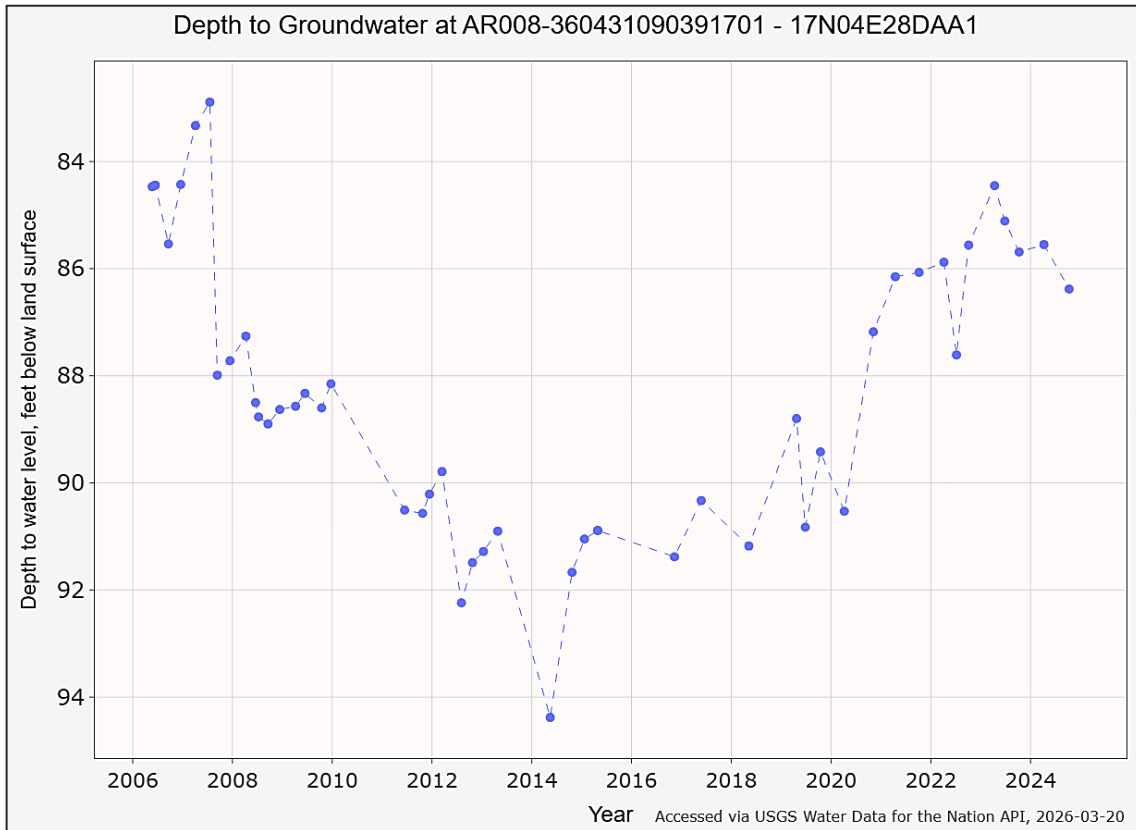
Percent of Total Wells in
Decline: 90.1%



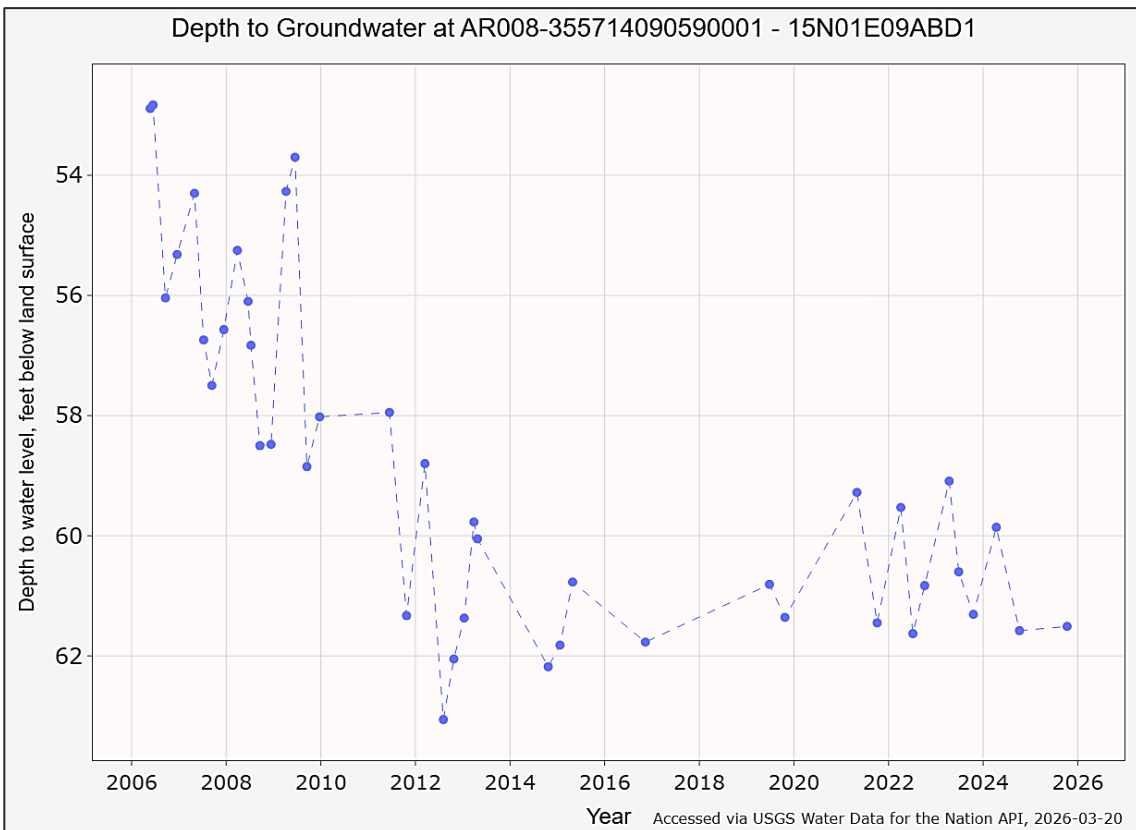
0 10 20 40 Miles

Figure 14

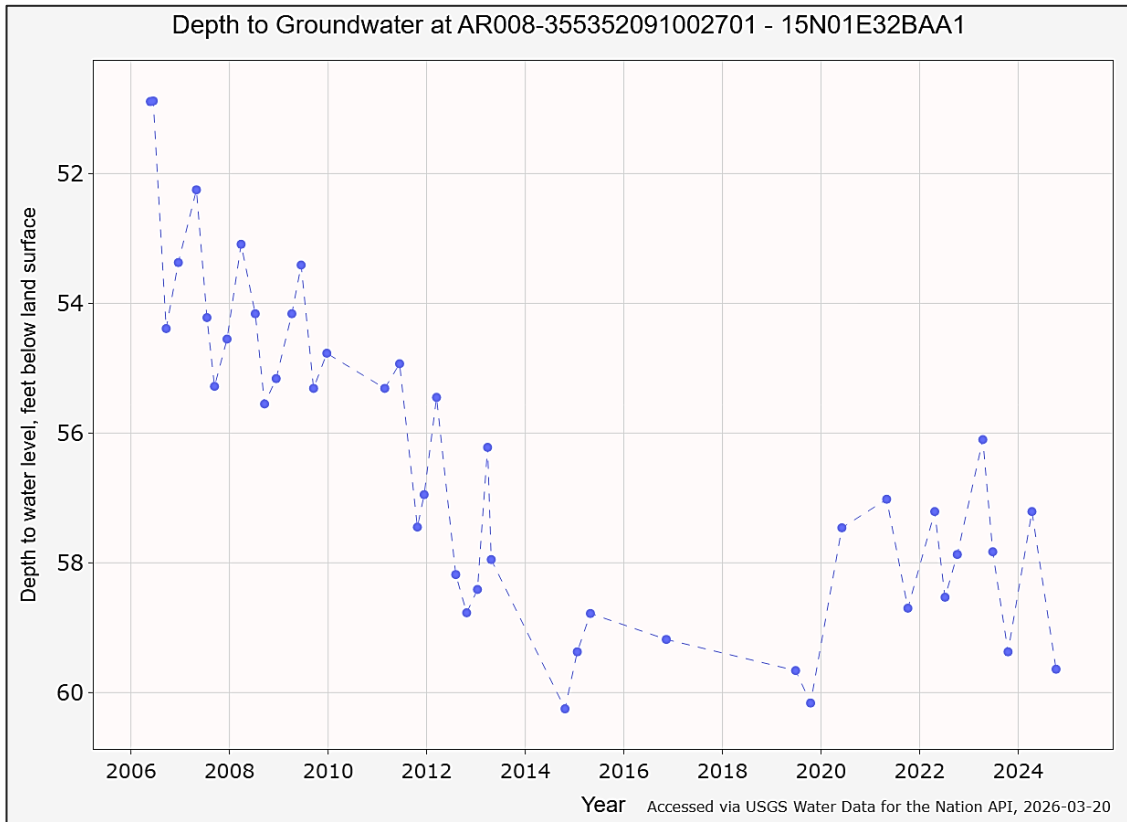
Figure 15: Selected hydrographs from the Mississippi River Alluvial Aquifer



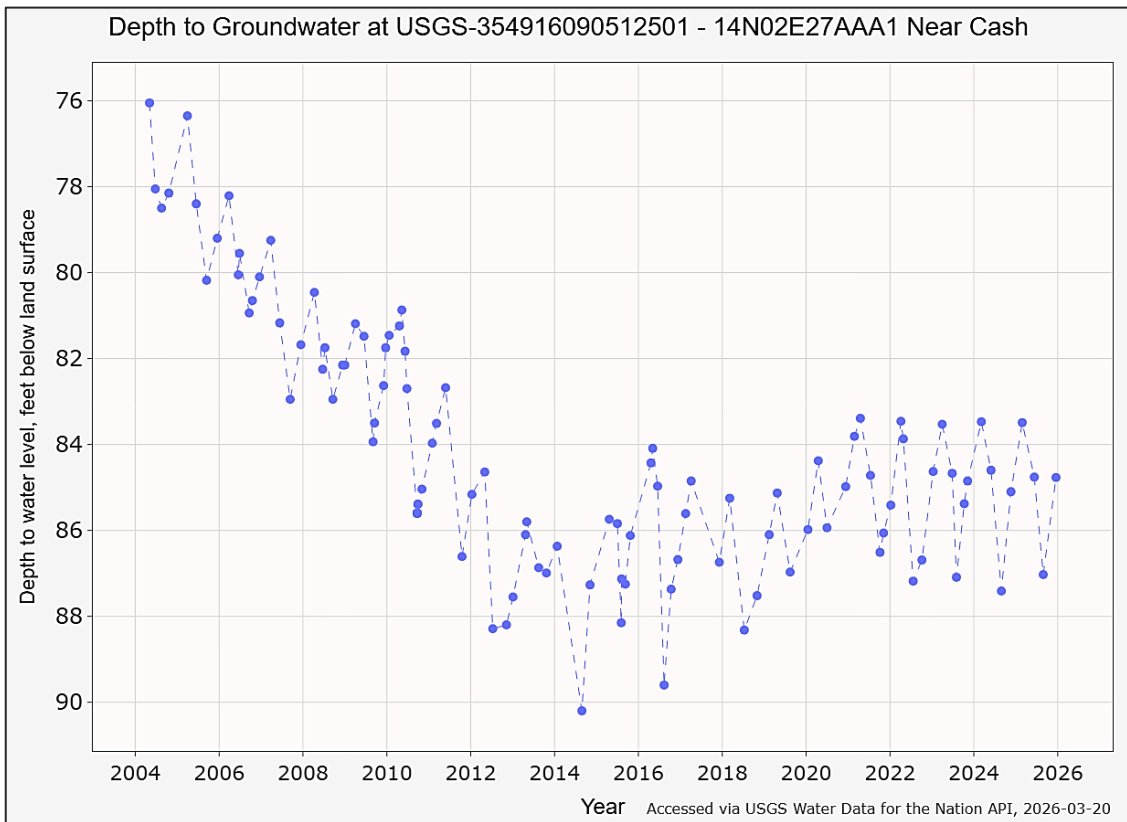
A. Greene County, Well 17N04E28DAA1



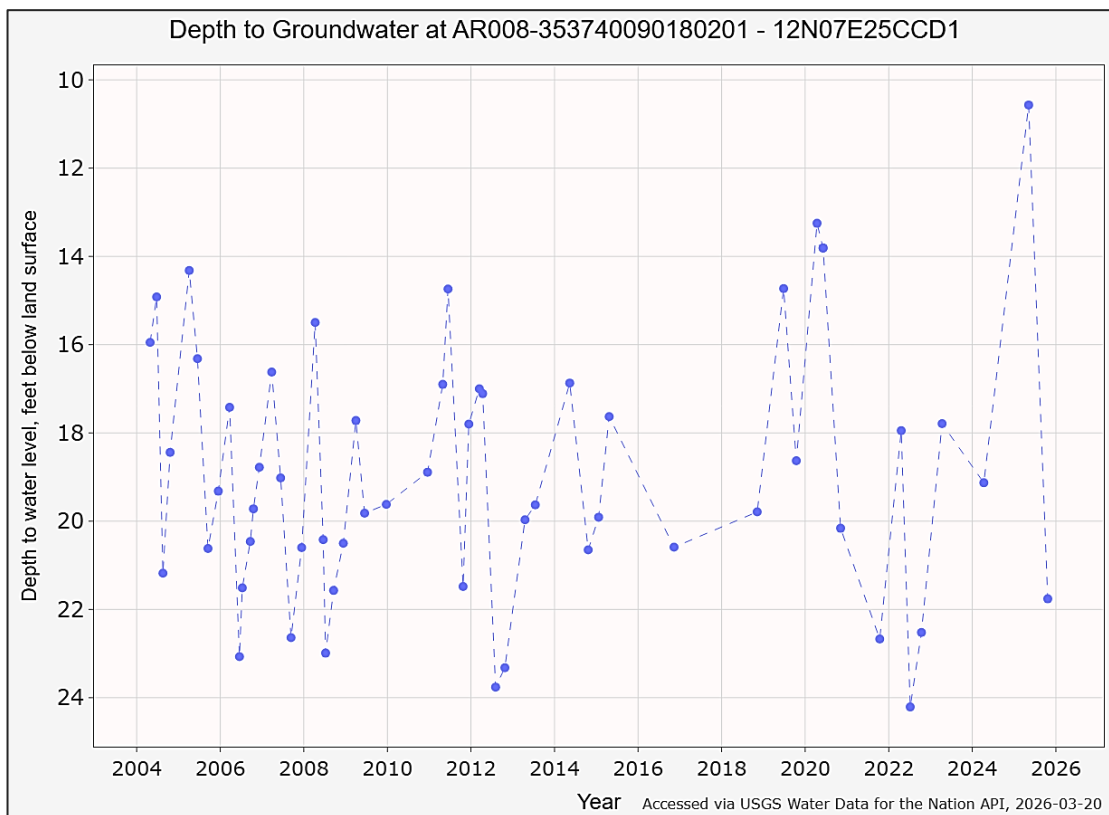
B. Lawrence County, Well 15N01E9ABD1



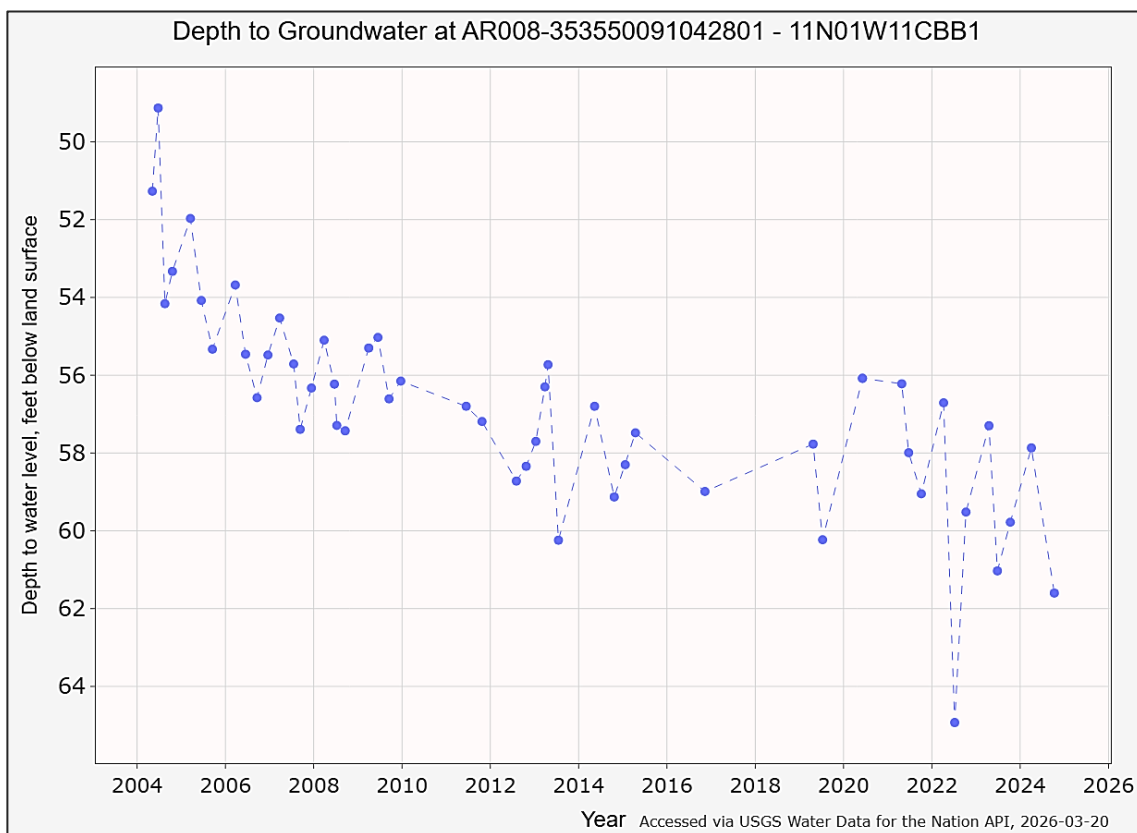
C. Lawrence County, Well 15N01E32BAA1



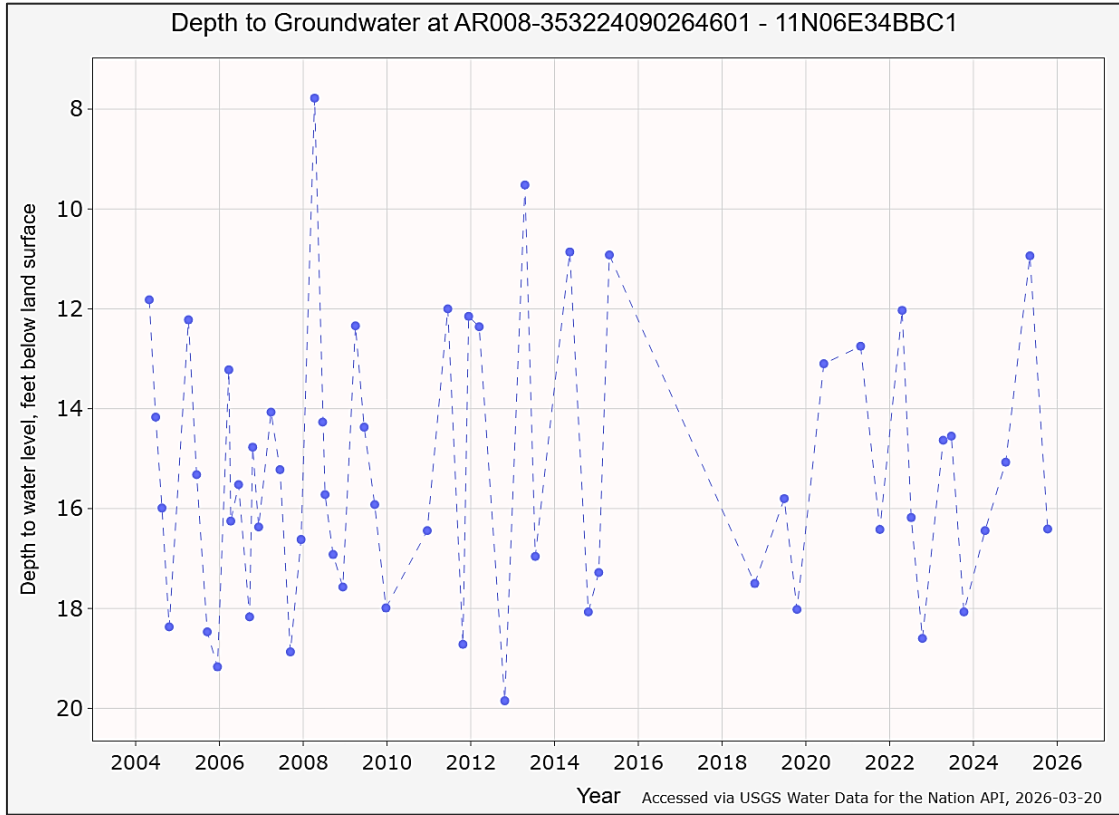
D. Craighead County, Well 14N02E27AAA1



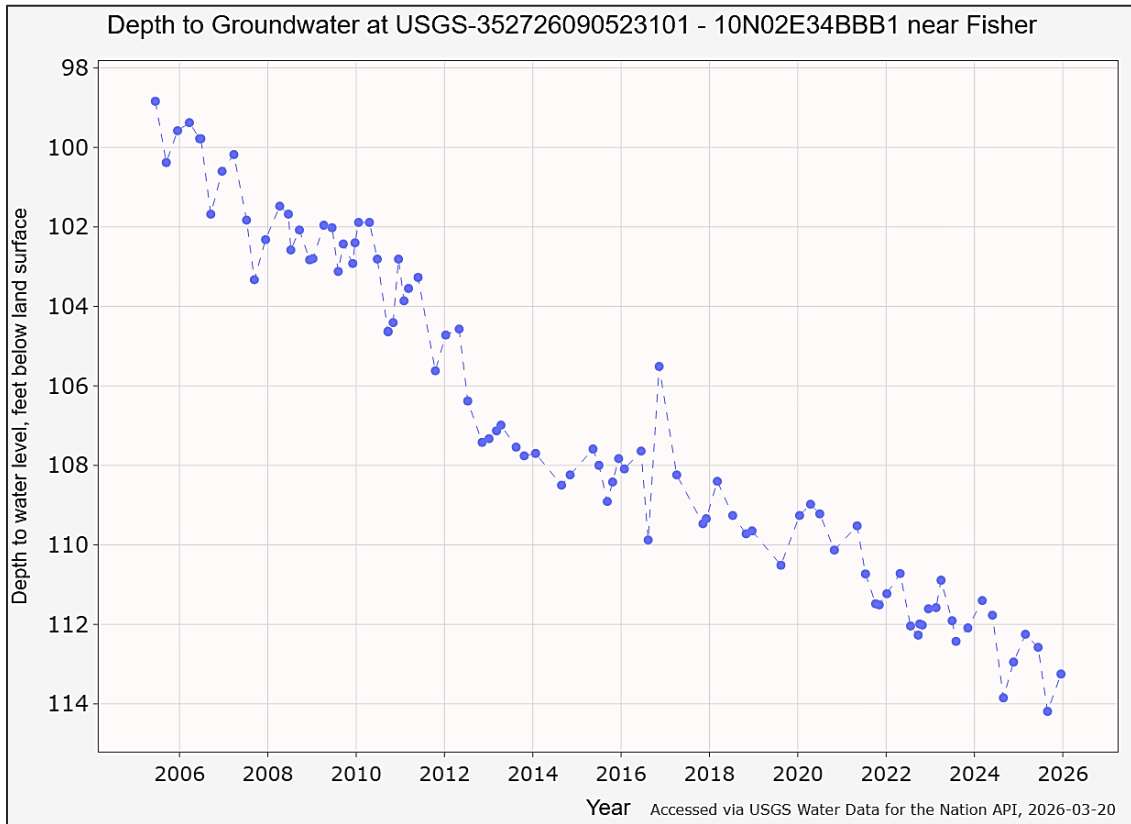
E. Poinsett County, Well 12N07E25CCD1



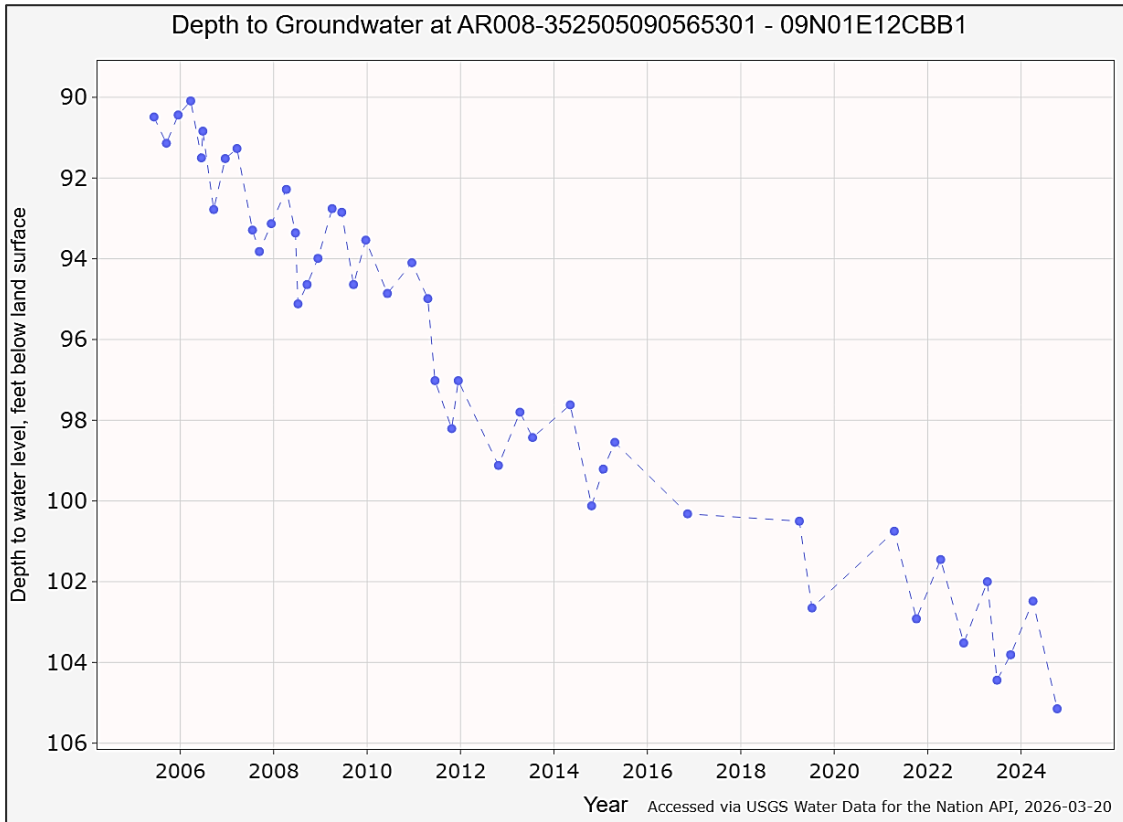
F. Jackson County, Well 11N01W11CBB1



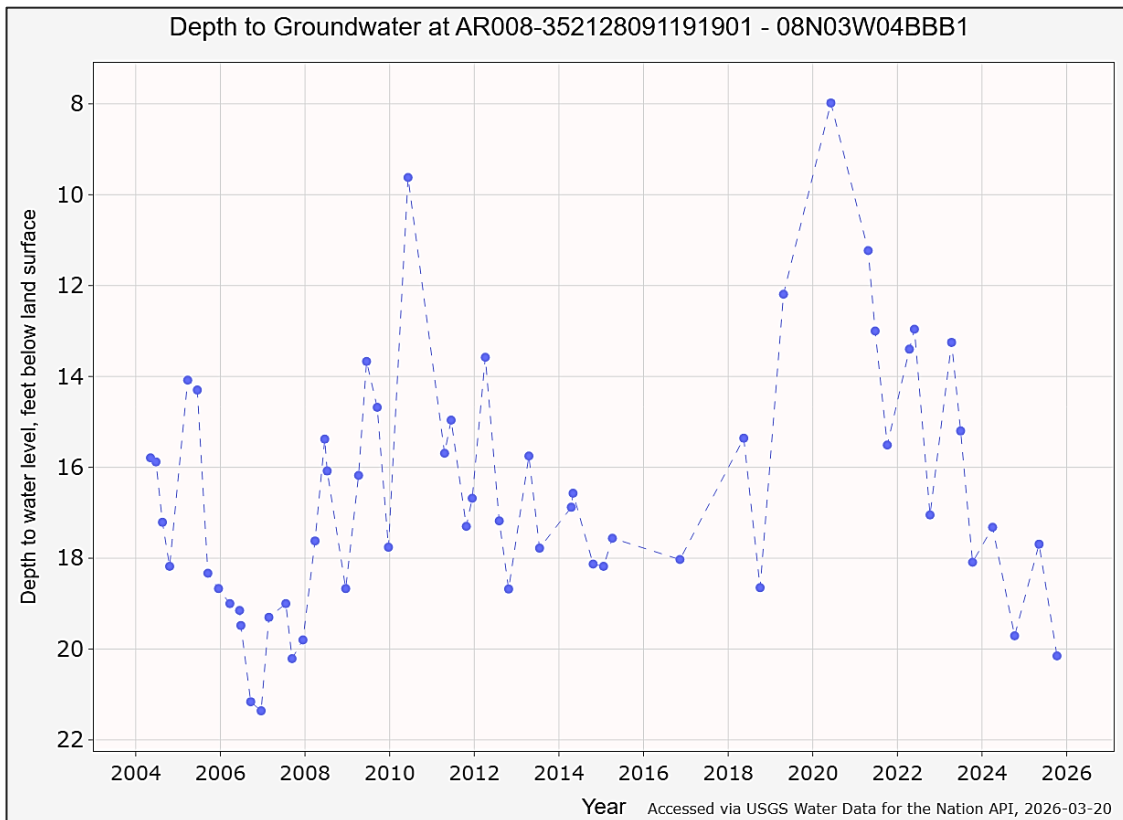
G. Poinsett County, Well 11N06E34BBC1



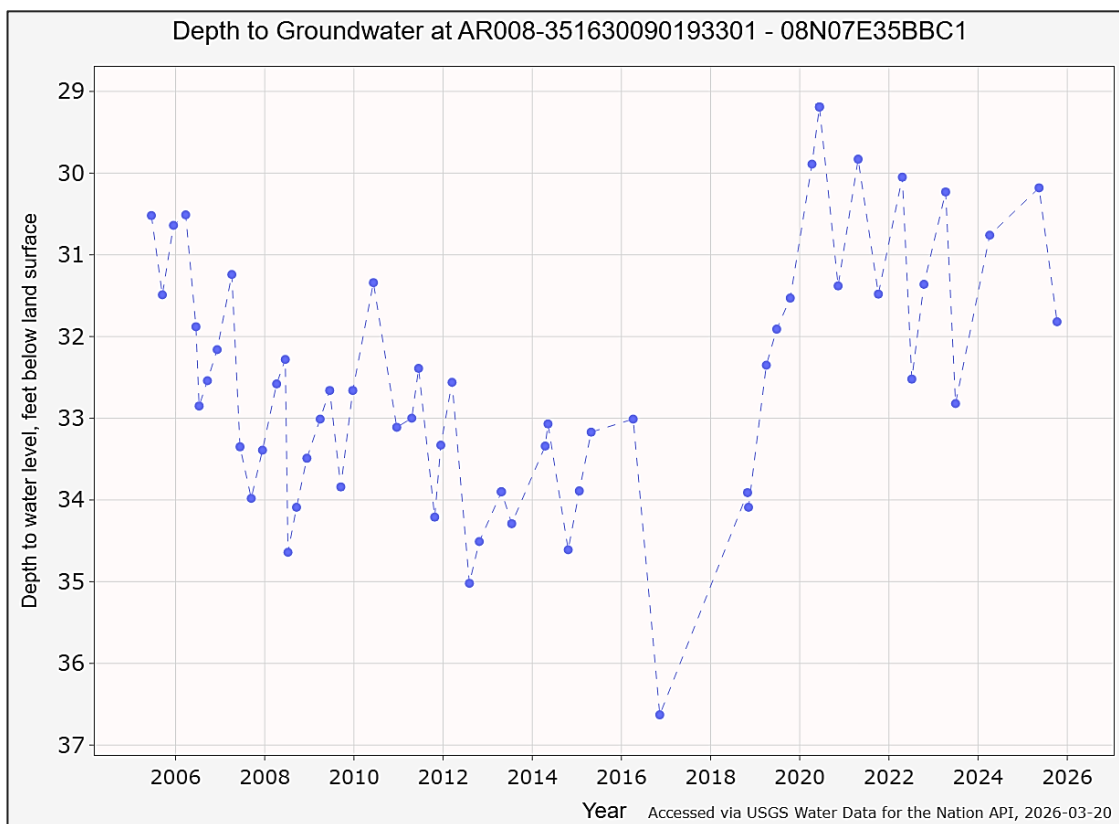
H. Poinsett County, Well 10N02E34BBB1



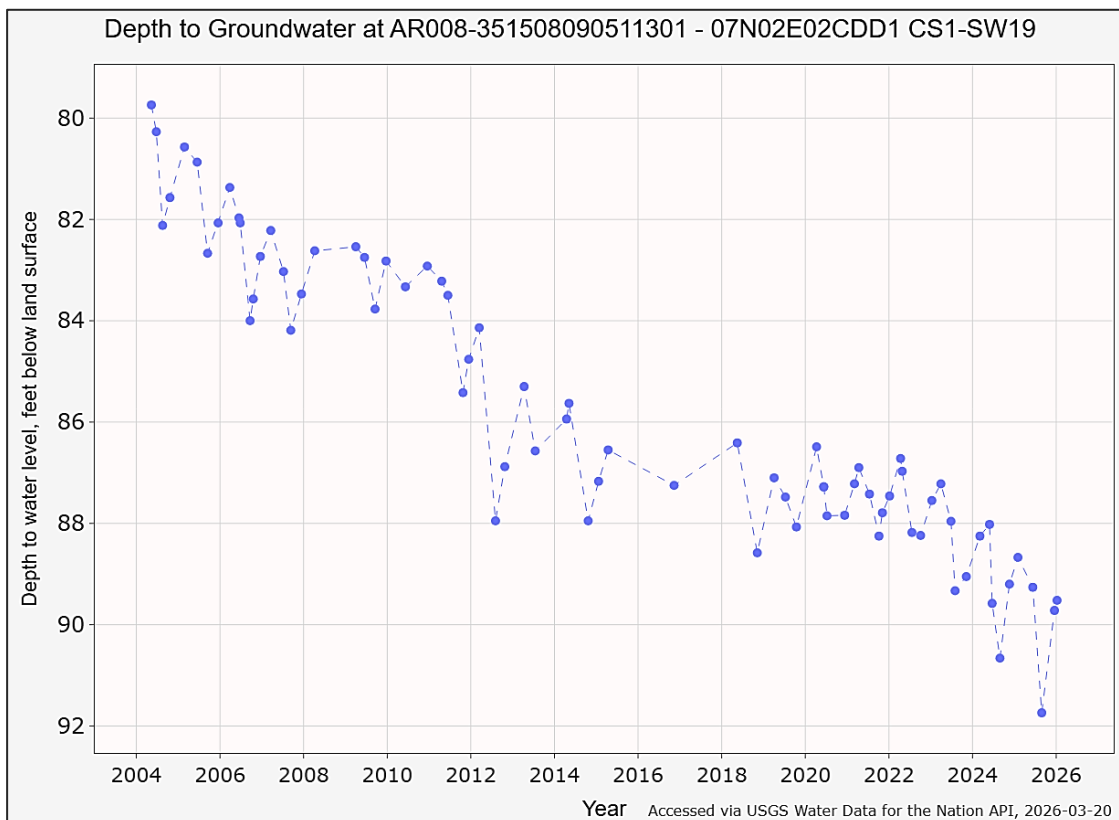
I. Cross County, Well 09N01E12CBB1



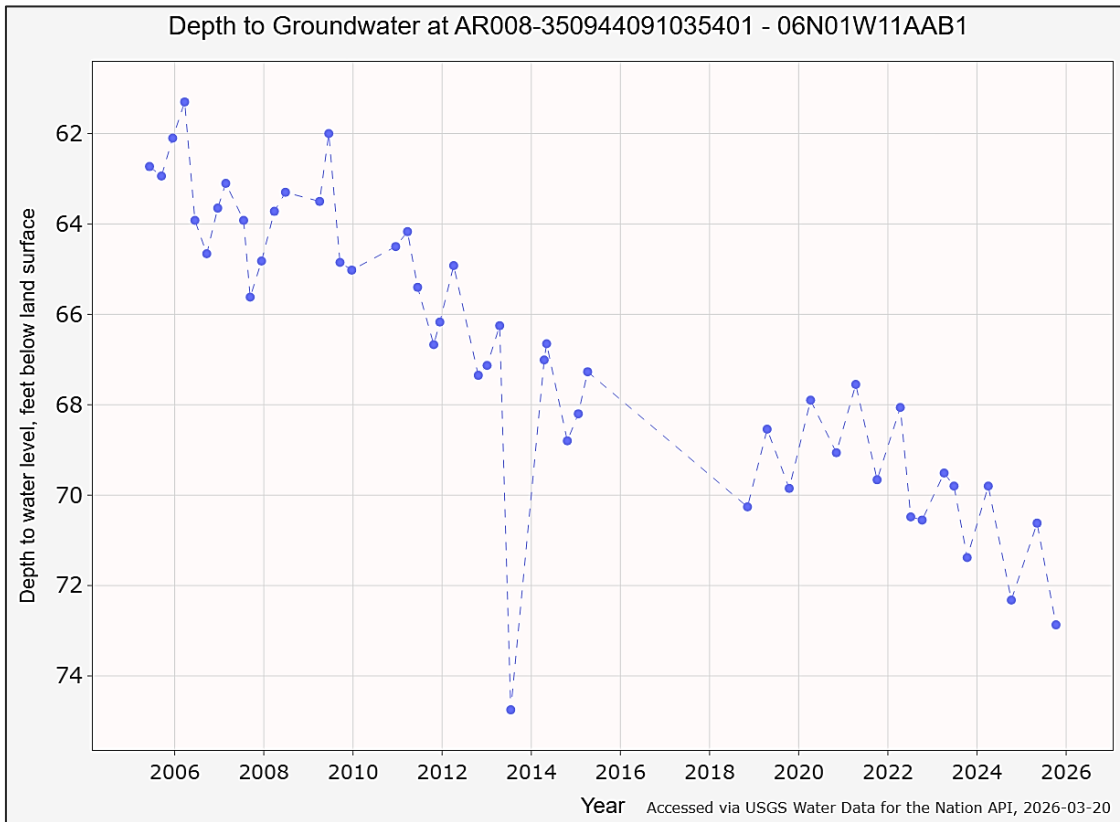
J. Woodruff County, Well 08N03W04BBB1



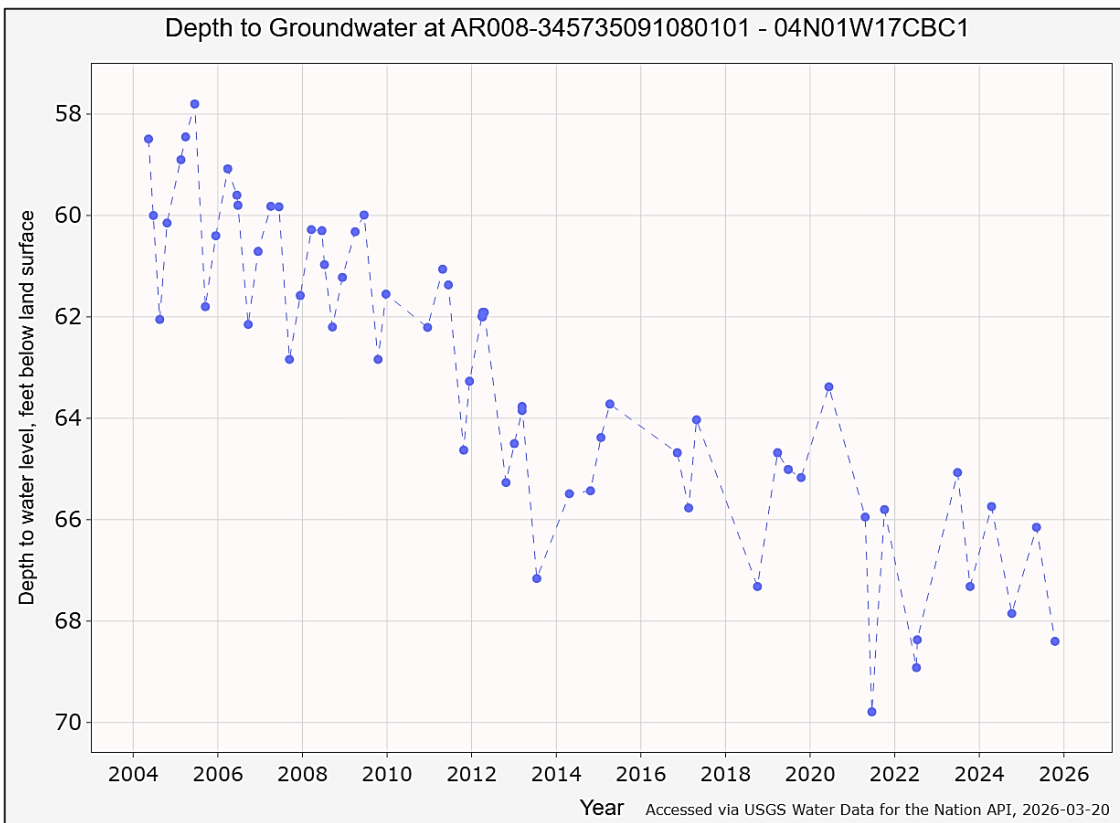
K. Crittenden County, Well 08N07E35BBC1



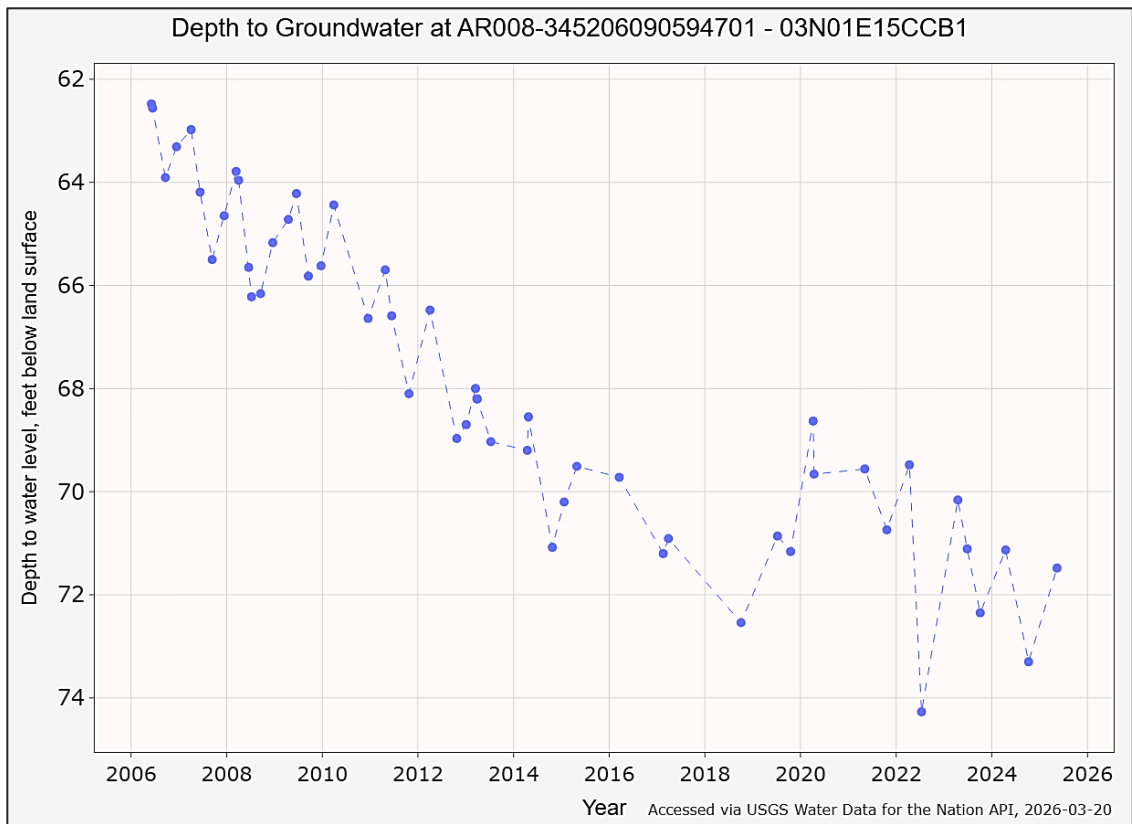
L. Cross County, Well 07N02E02CDD1 CS1-SW19



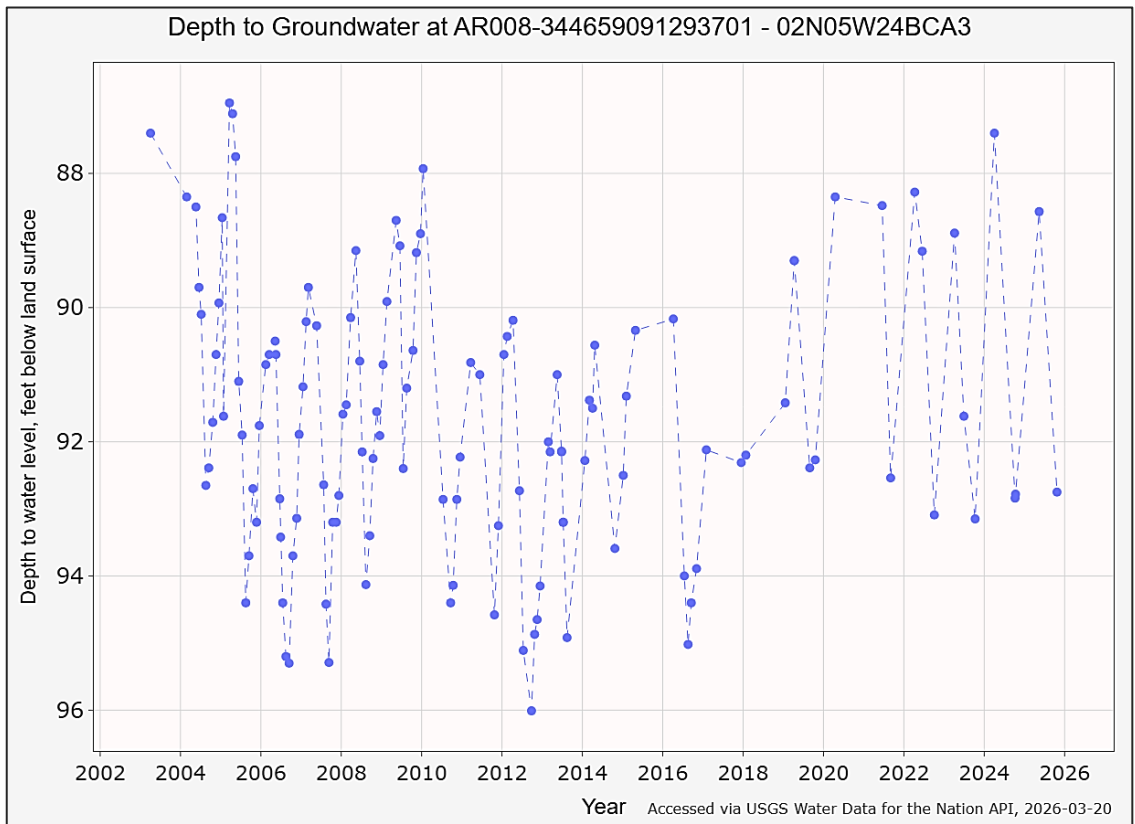
M. Woodruff County, Well 06N01W11AAB1



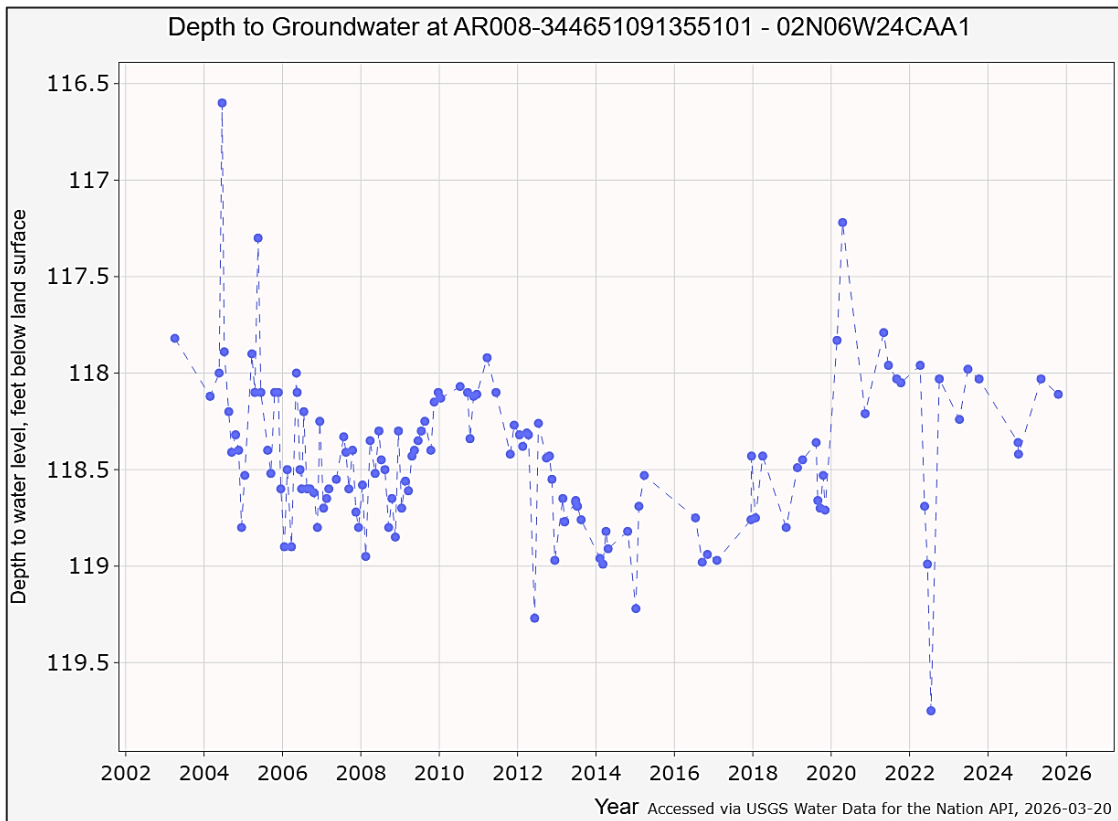
N. St. Francis County, Well 04N01W17CBC1



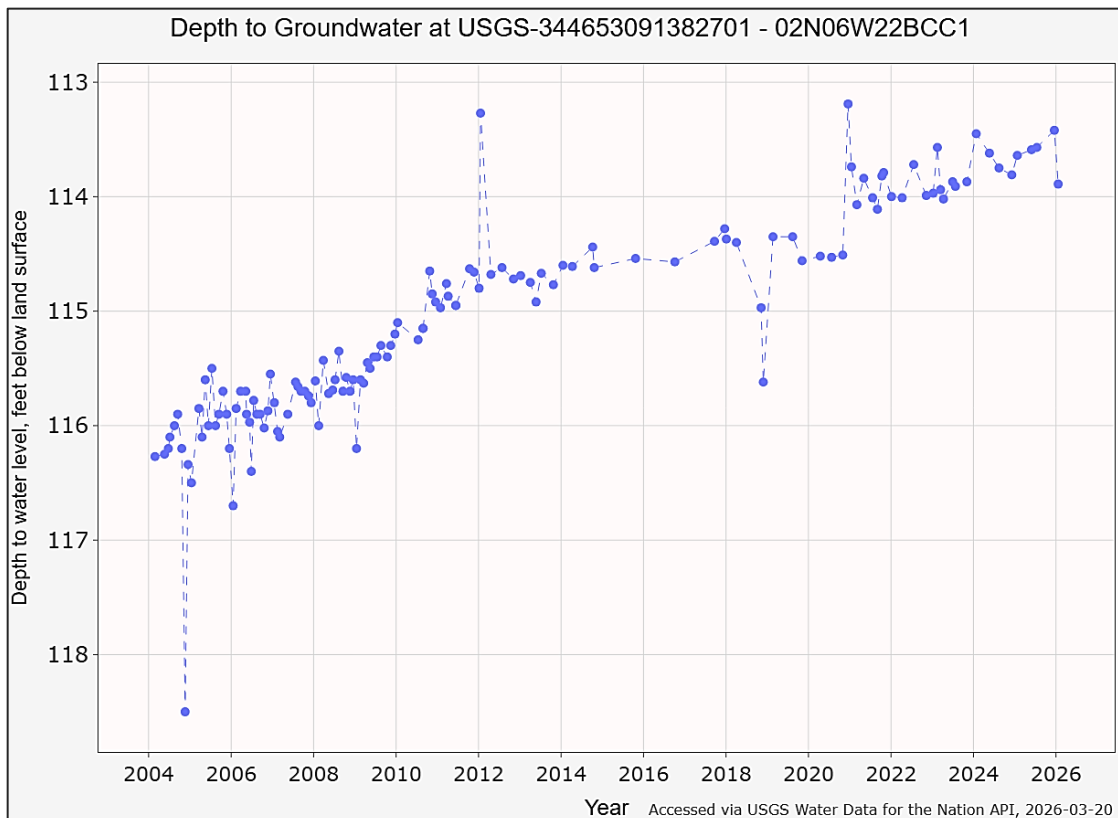
O. Lee County, Well 03N01E15CCB1



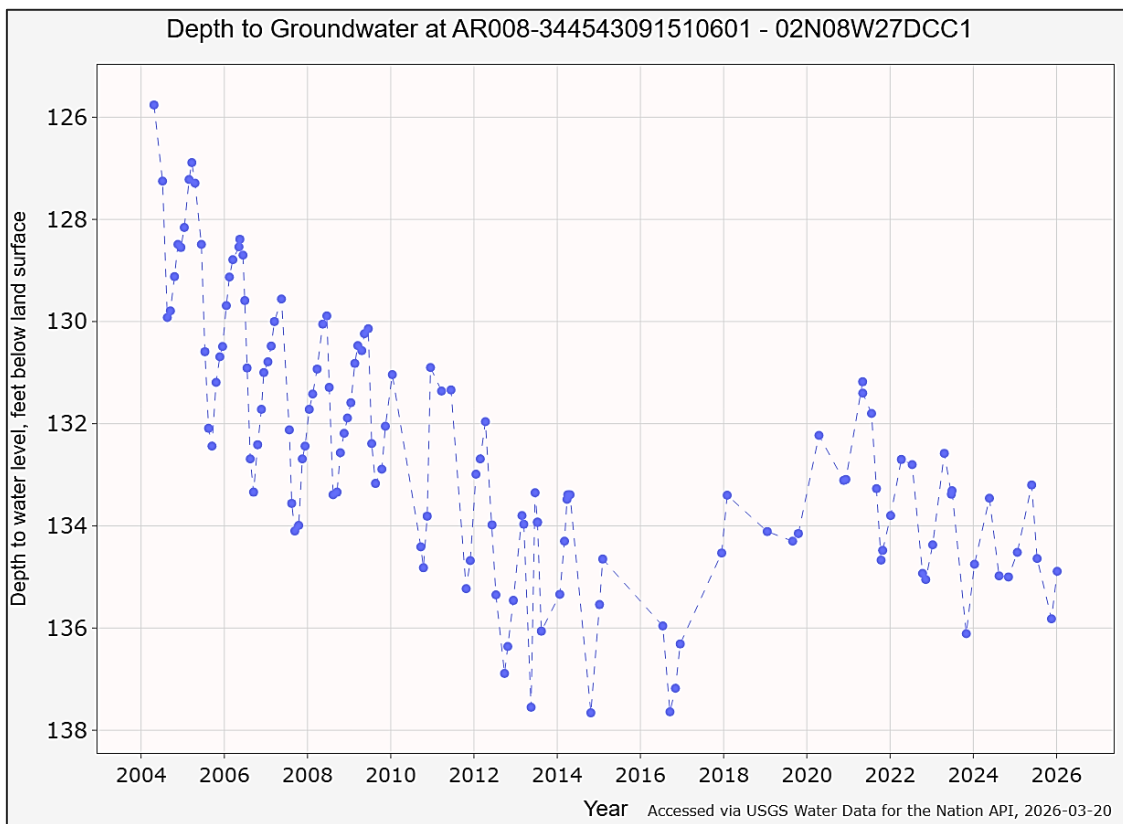
P. Prairie County, Well 02N05W24BCA3



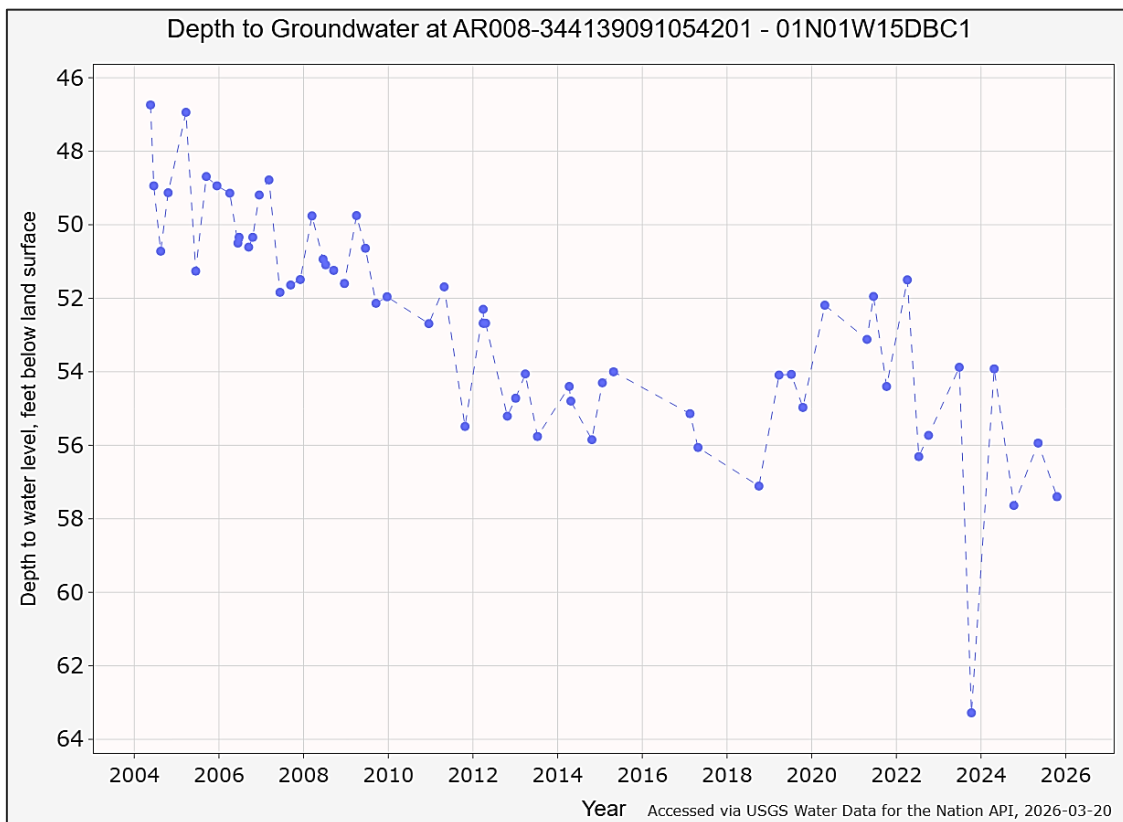
Q. Prairie County, Well 02N06W24CAA1



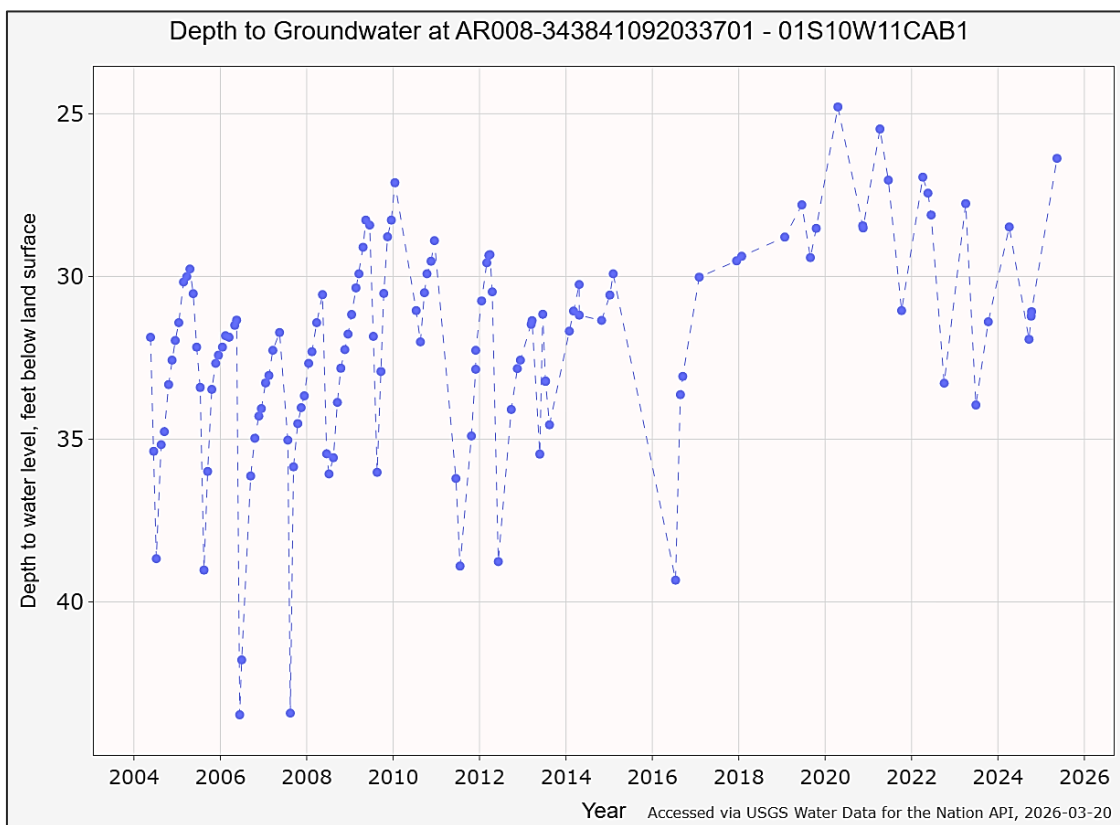
R. Prairie County, Well 02N06W22BCC1



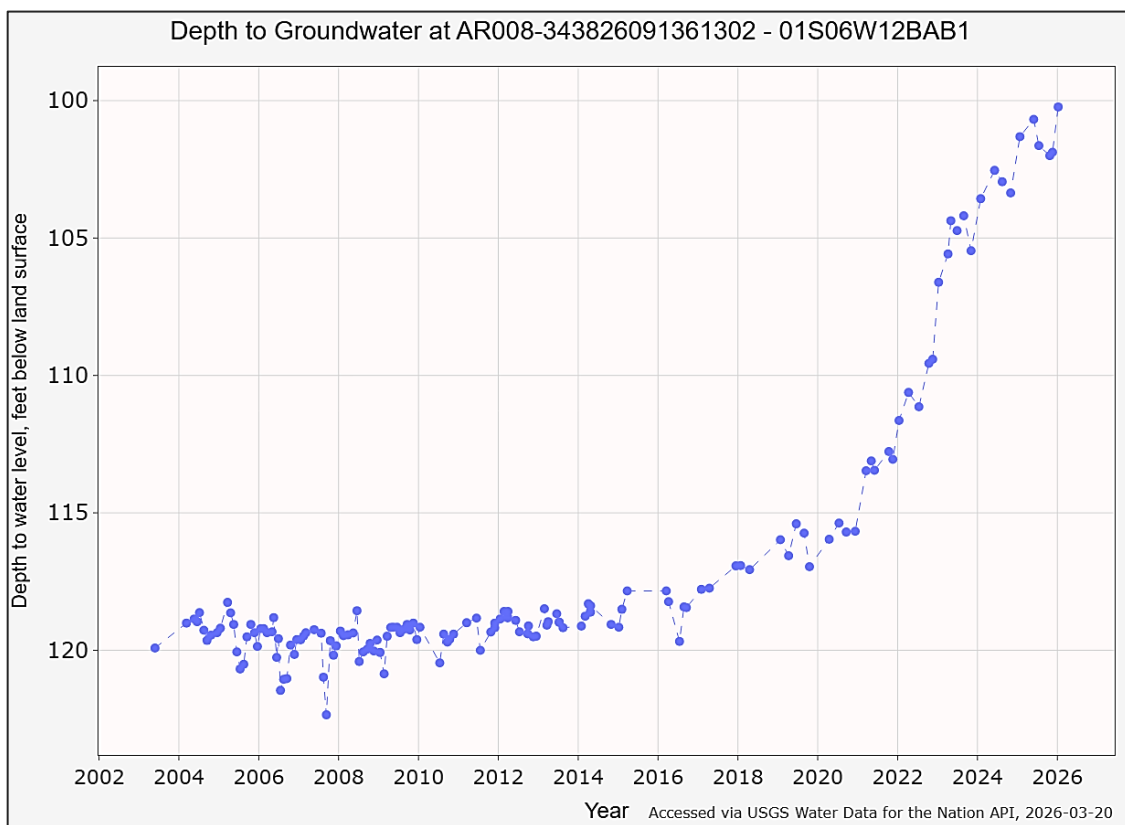
S. Lonoke County, Well 02N08W27DCC1



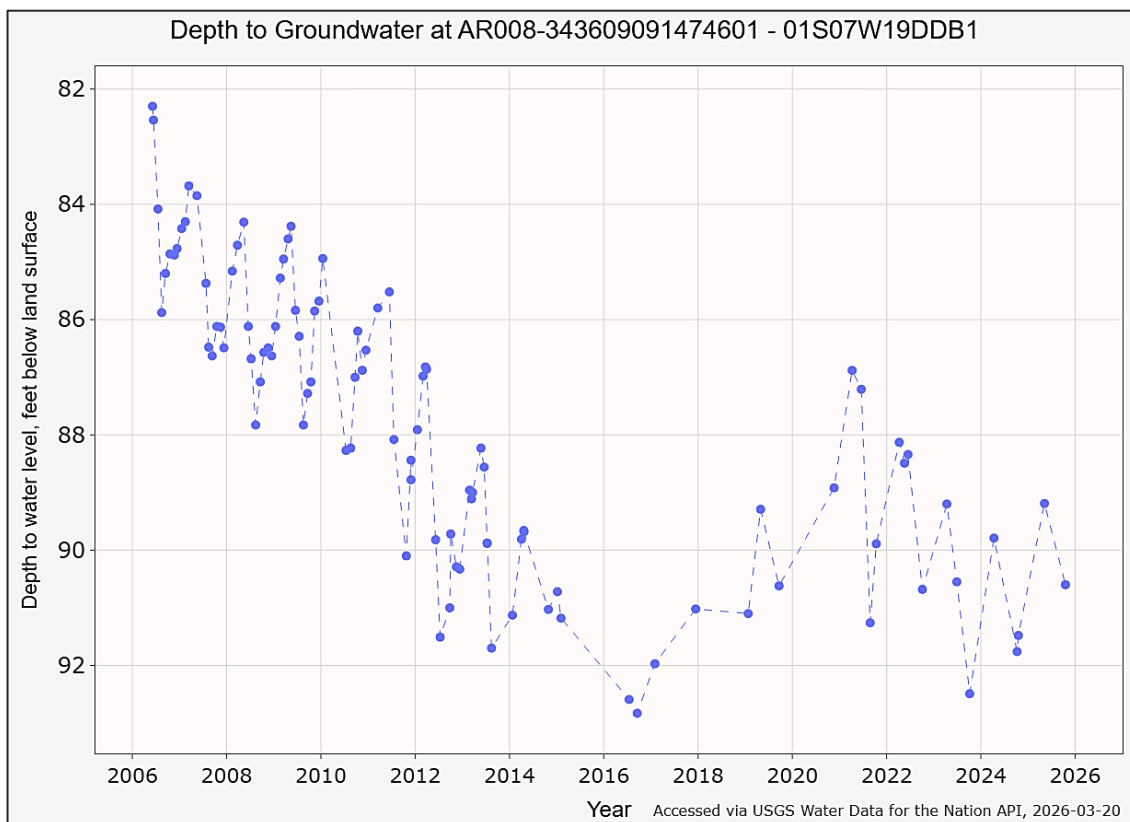
T. Monroe County, Well 01N01W15DBC1



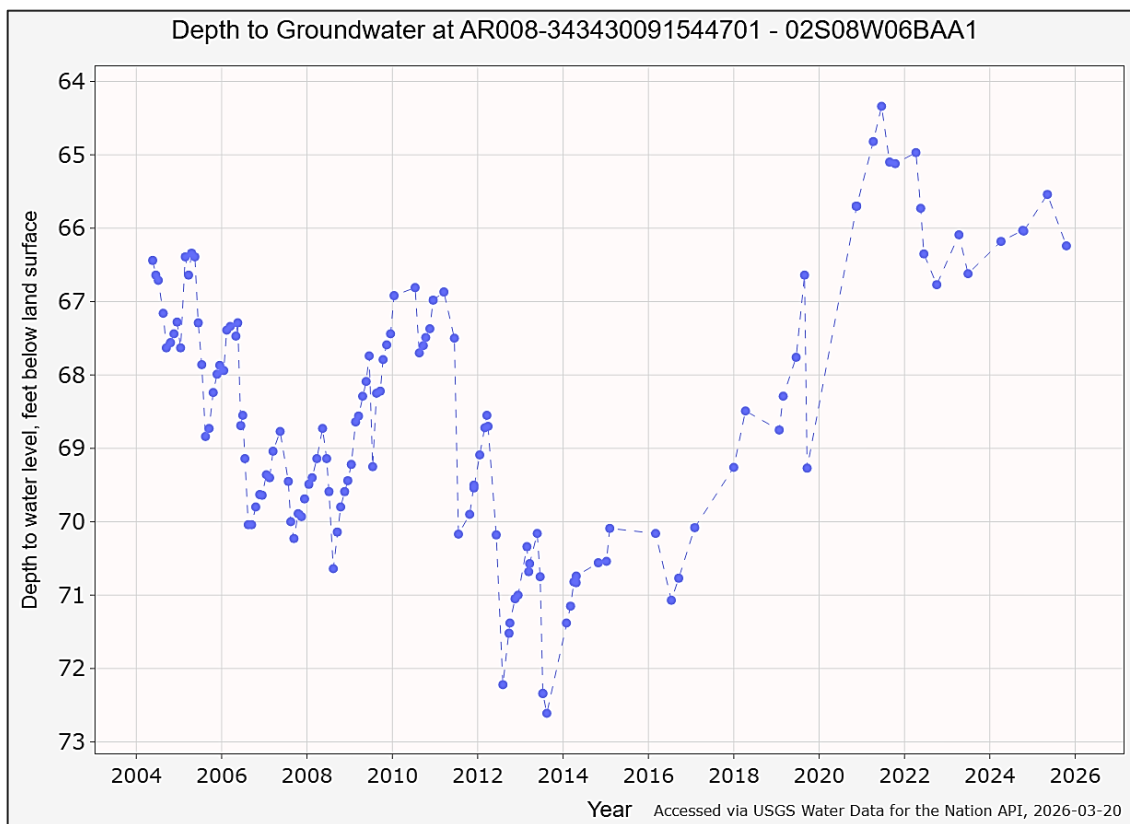
U. Lonoke County, Well 01S10W11CAB1



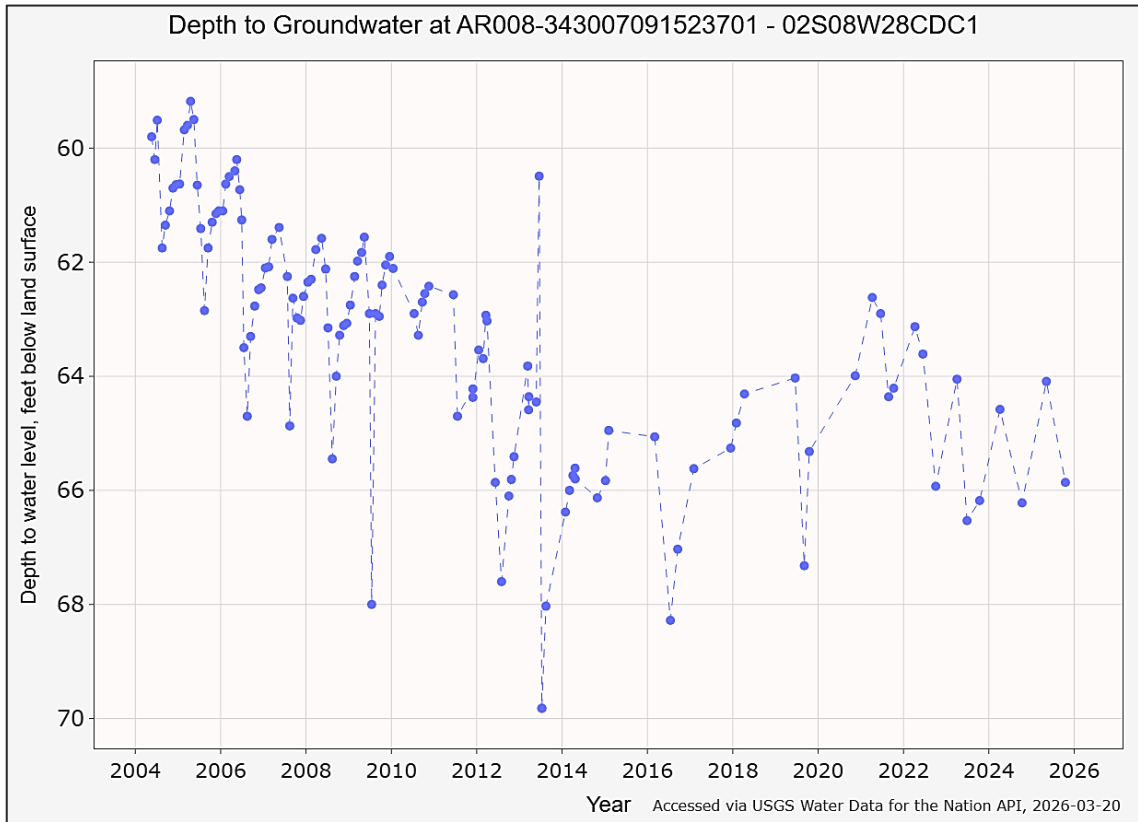
V. Prairie County, Well 01S06W12BAB1



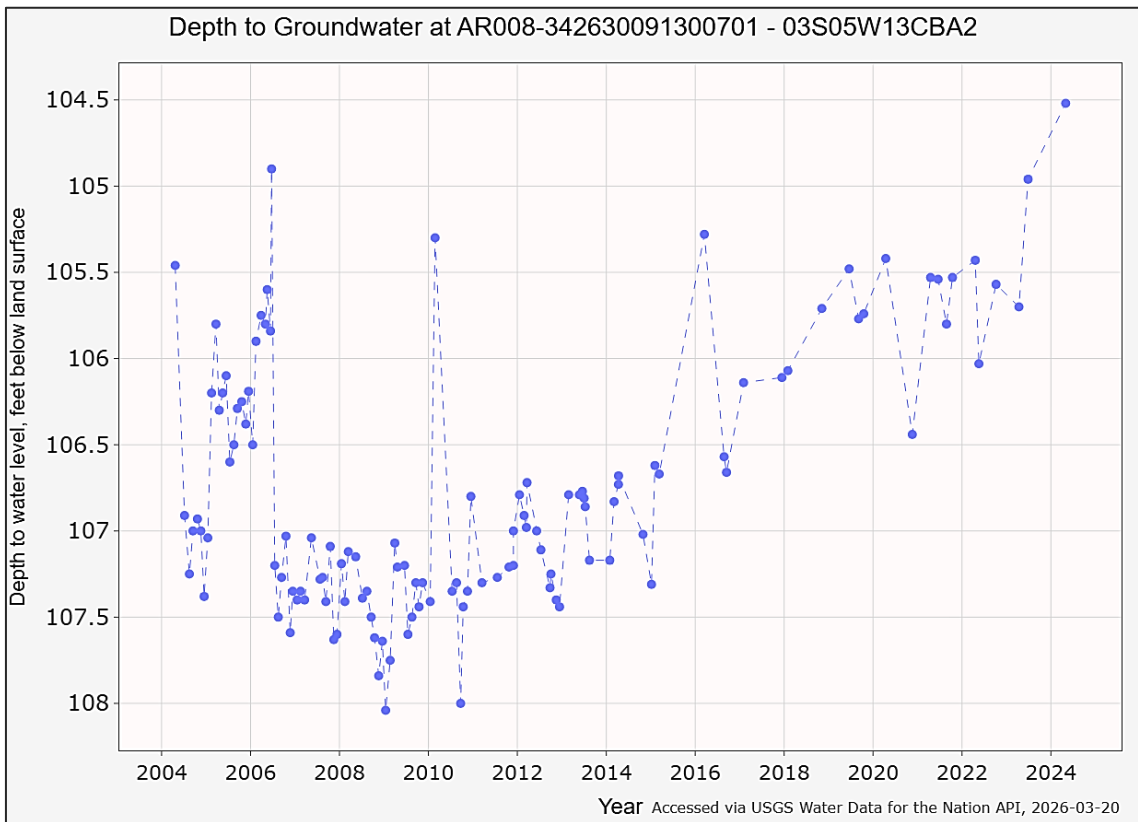
W. Lonoke County, Well 01S07W19DDB1



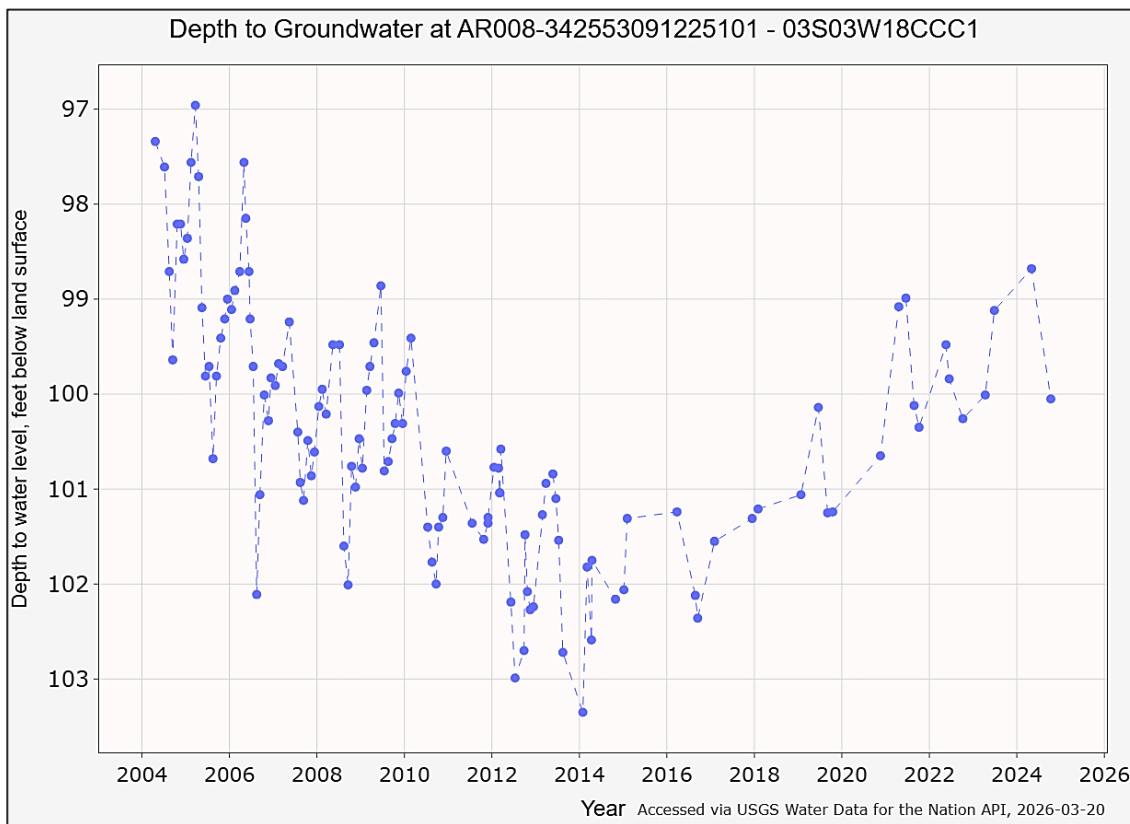
X. Lonoke County, Well 02S08W06BAA1



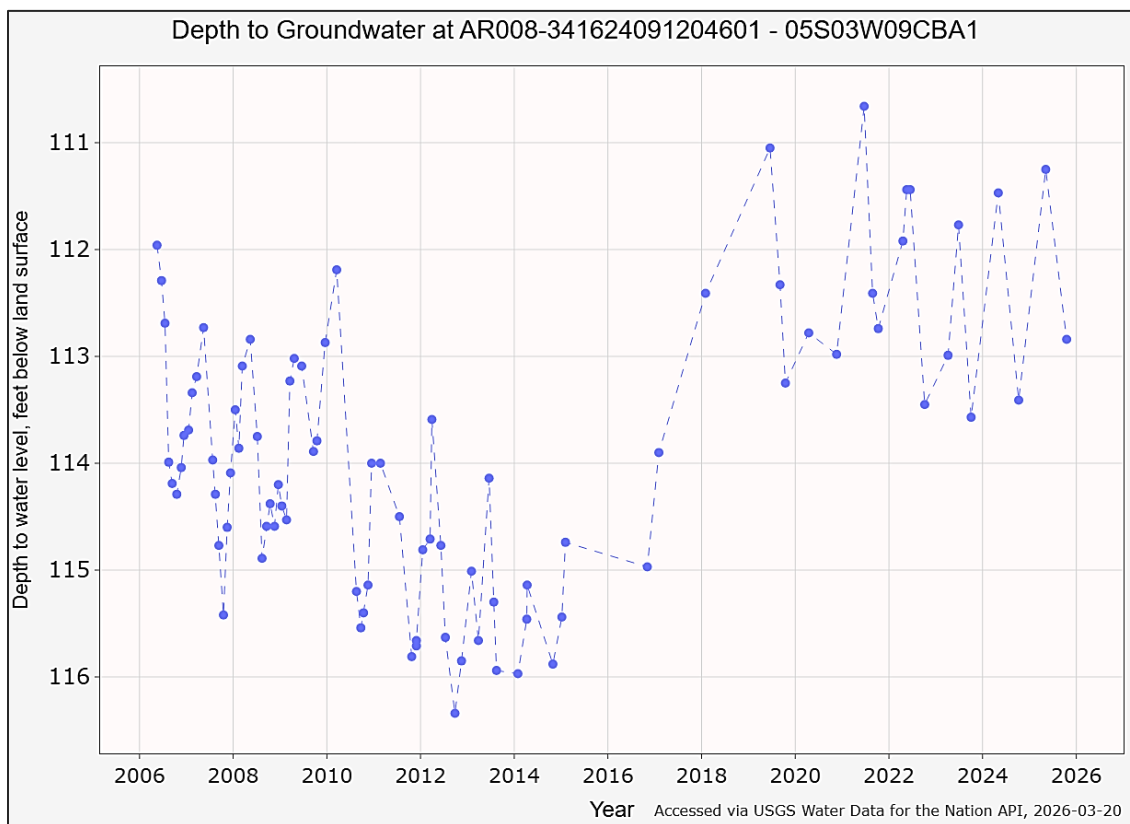
Y. Lonoke County, Well 02S08W28CDC1



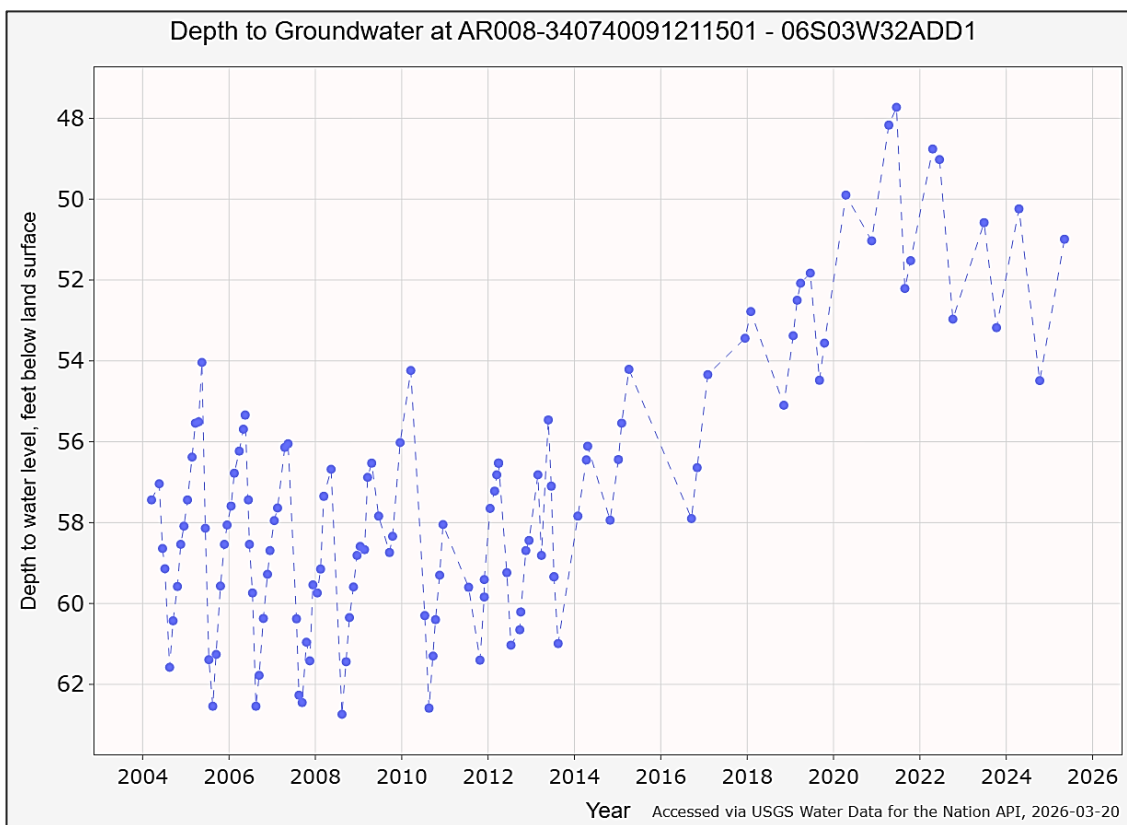
Z. Arkansas County, Well 03S05W13CBA2



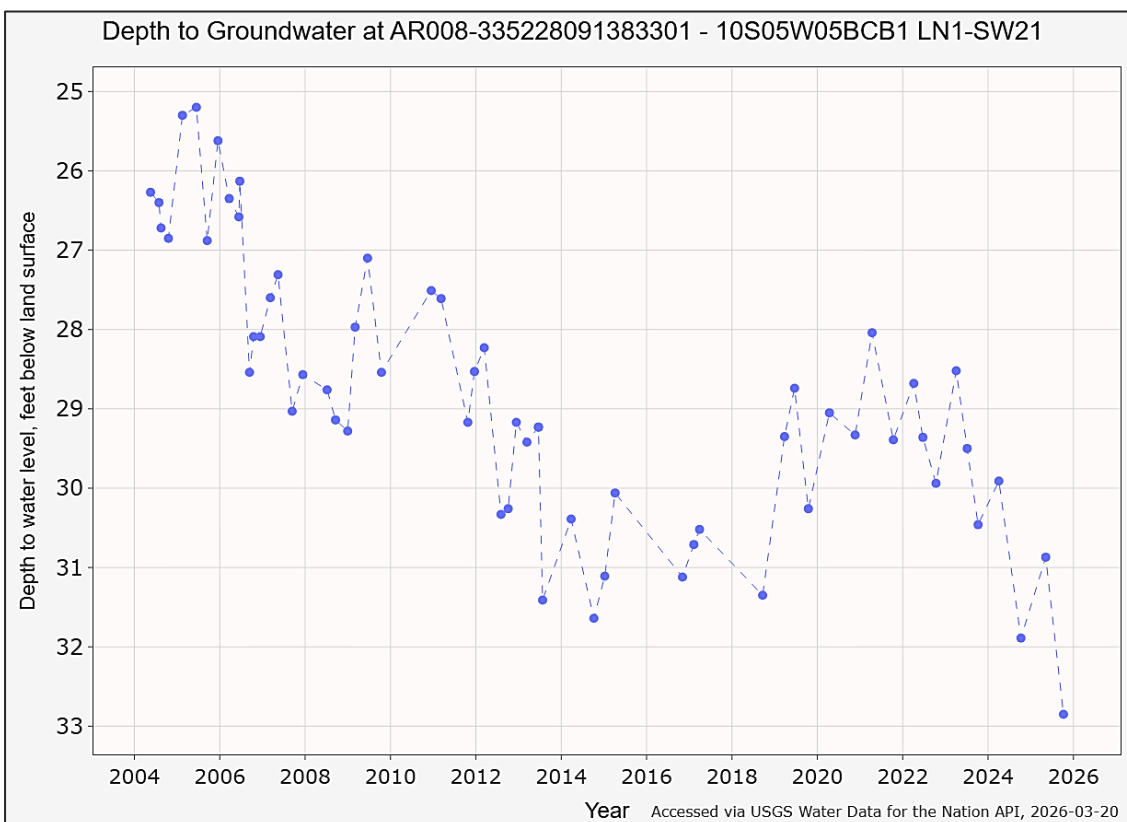
AA. Arkansas County, Well 03S03W18CCC1



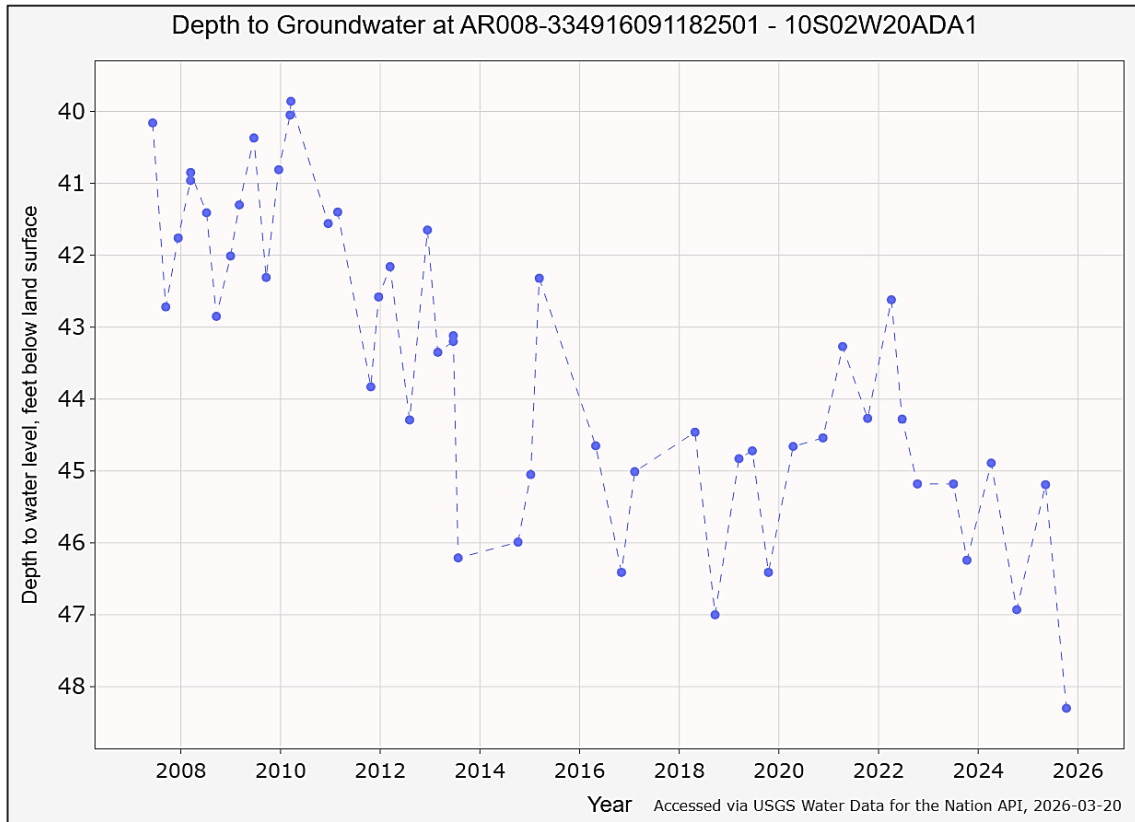
BB. Arkansas County, Well 05S03W09CBA1



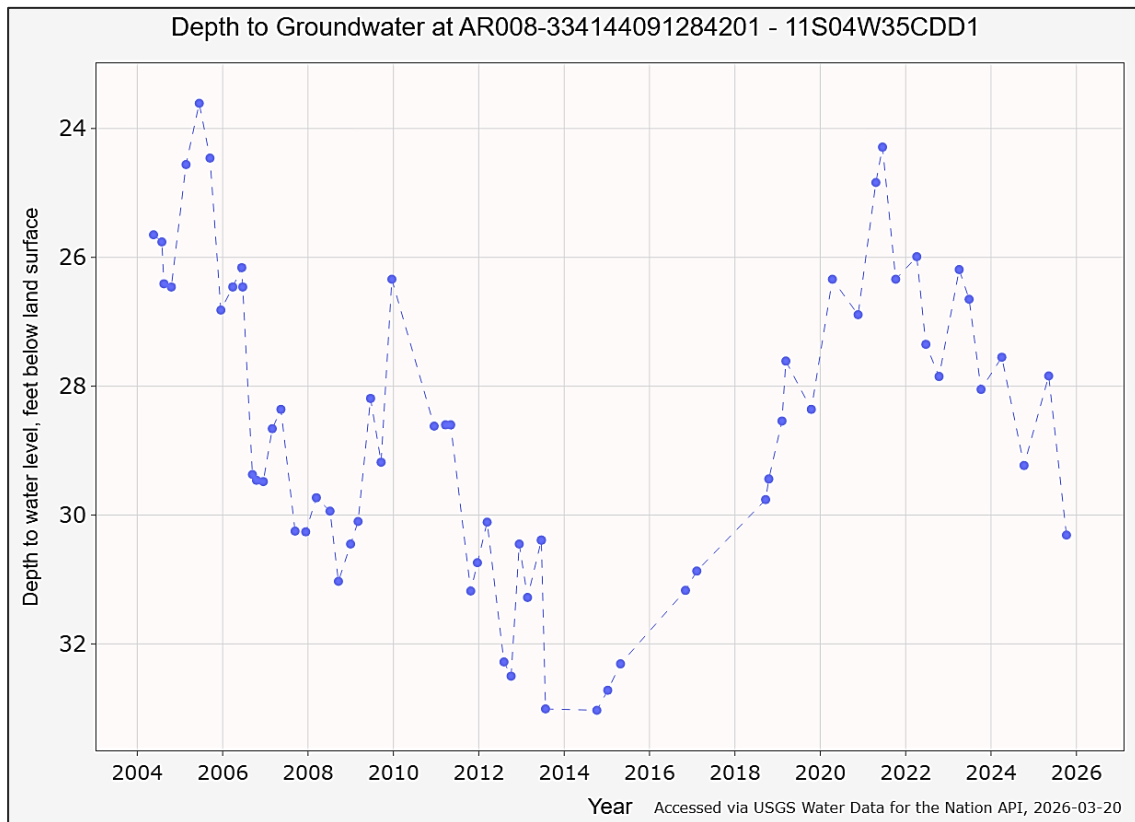
CC. Arkansas County, Well 06S03W32ADD1



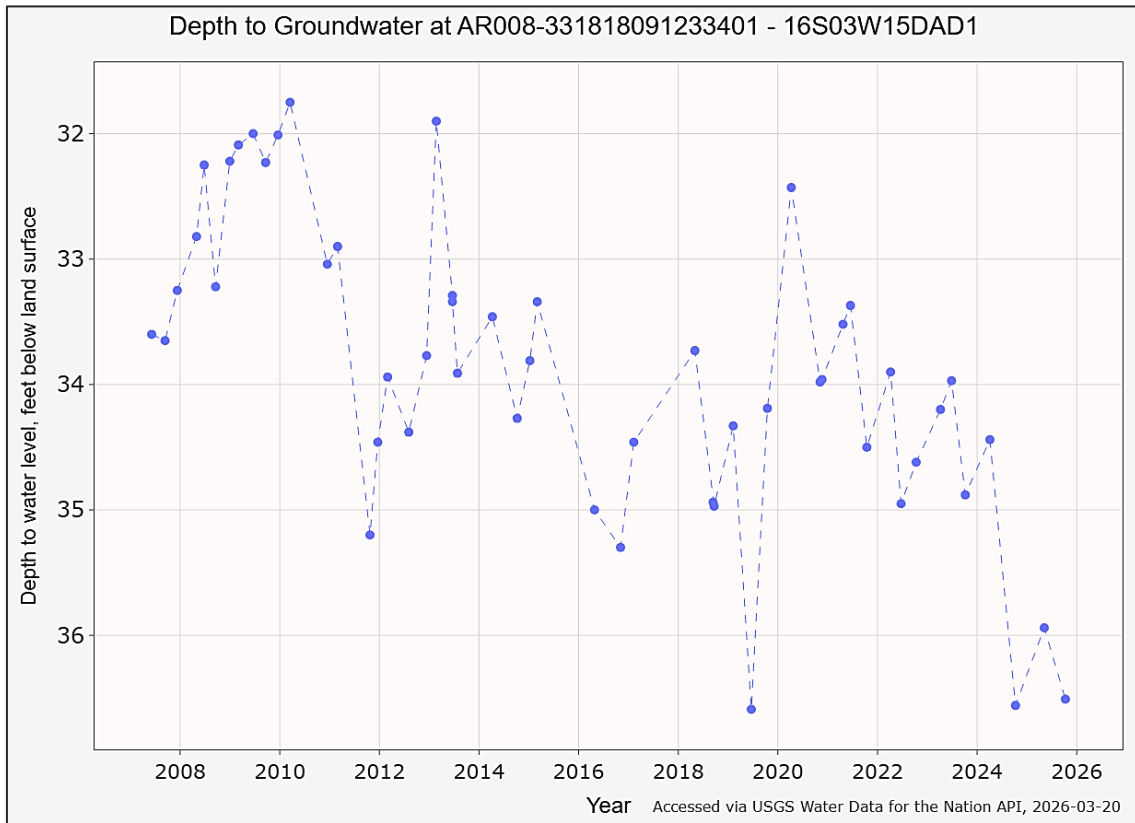
DD. Lincoln County, Well 10S05W05BCB1 LN1-SW21



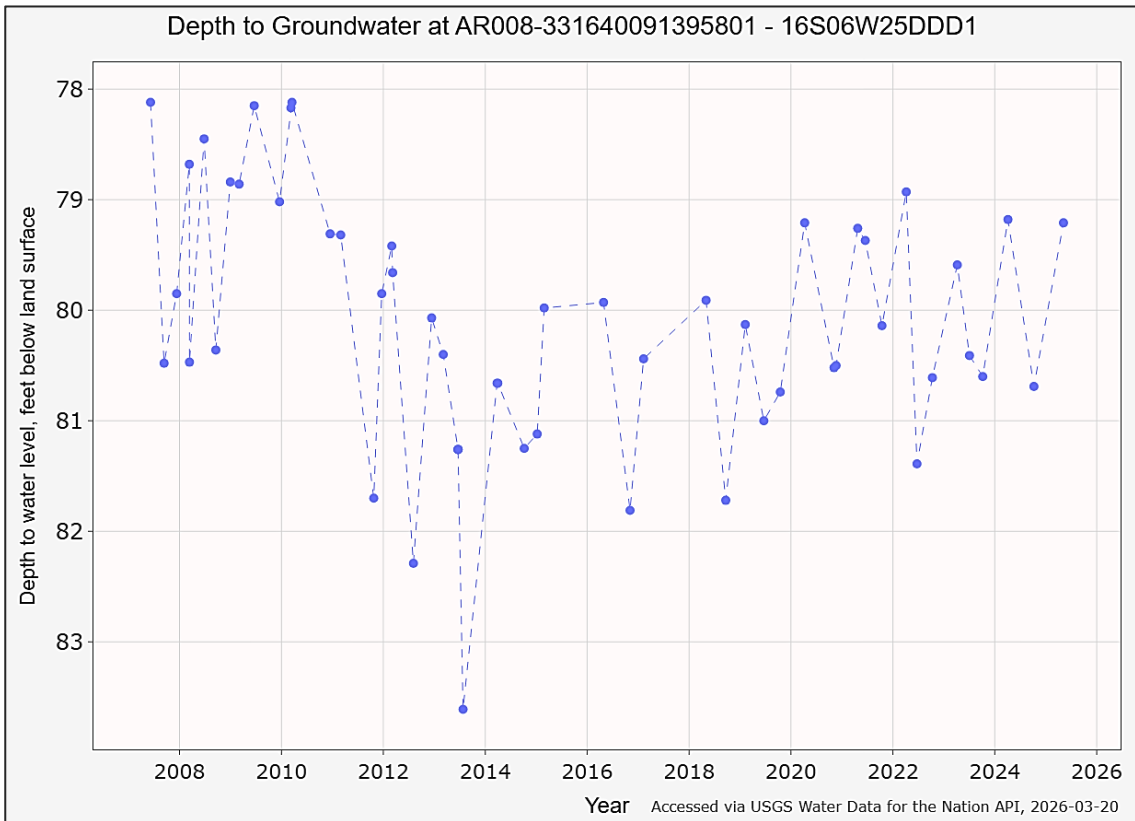
EE. Desha County, Well 10S02W20ADA1



FF. Drew County, Well 11S04W35CDD1



GG. Chicot County, Well 16S03W15DAD1



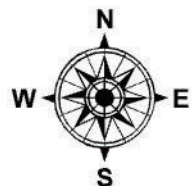
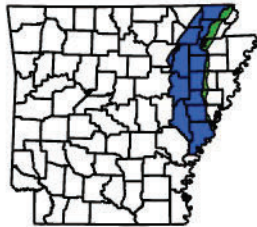
HH. Ashley County, Well 16S06W25DDD1

Alluvial Aquifer 2024-2025 Water Level Change (Cache)



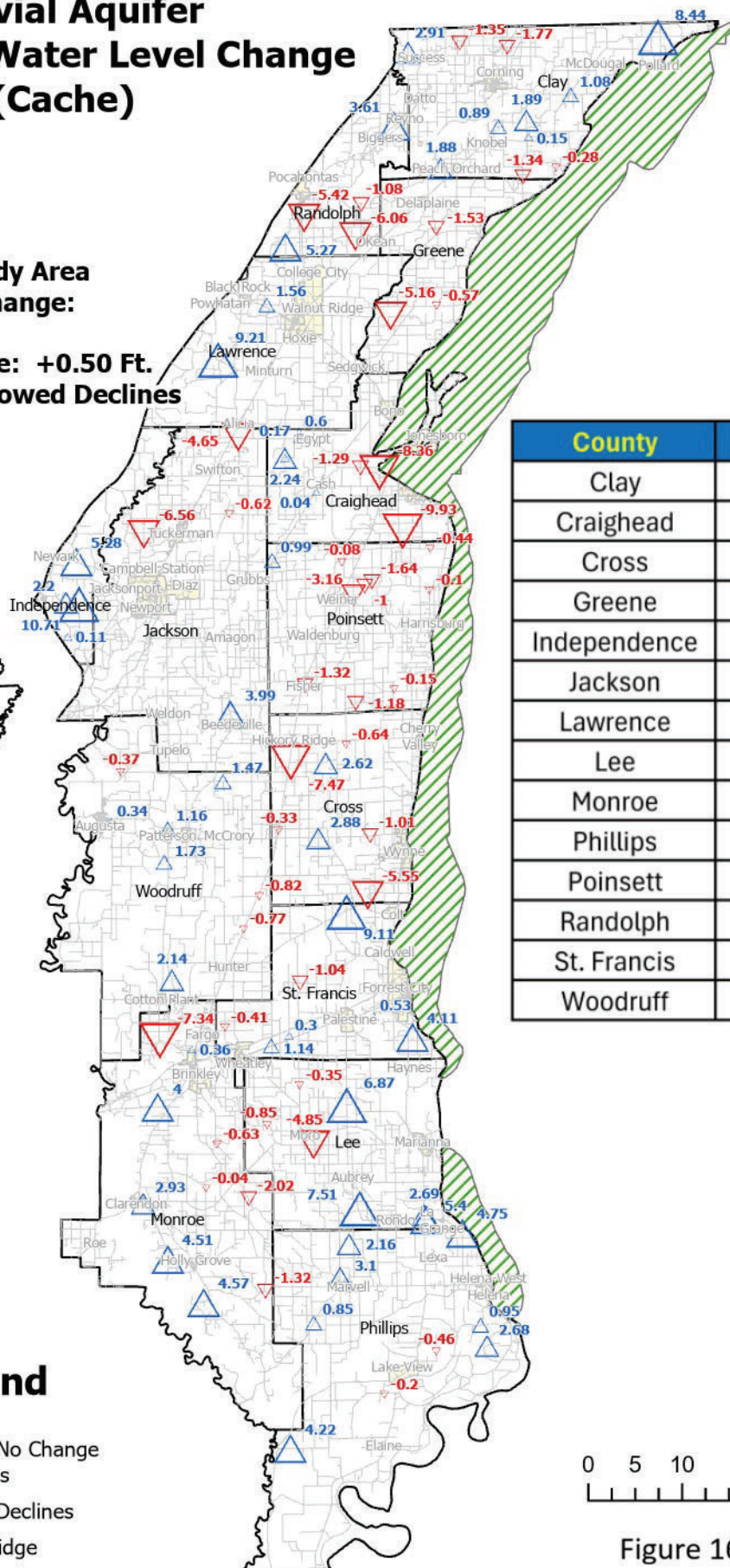
**Cache Study Area
1 Year Change:**

**Average Change: +0.50 Ft.
45 of 95 Wells Showed Declines**



Legend

- Wells with No Change or Increases
- Wells with Declines
- Crowley's Ridge
- County Boundaries



County	Avg. Change, ft.
Clay	+1.14
Craighead	-2.03
Cross	-1.36
Greene	-2.42
Independence	+4.58
Jackson	-1.96
Lawrence	+5.39
Lee	+2.35
Monroe	+0.50
Phillips	+2.01
Poinsett	-0.81
Randolph	-0.74
St. Francis	+1.96
Woodruff	+0.61

0 5 10 20 Miles

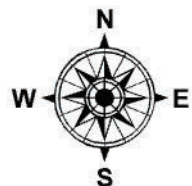
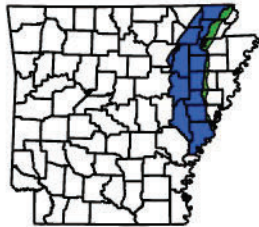
Figure 16

Alluvial Aquifer 2020-2025 Water Level Change (Cache)



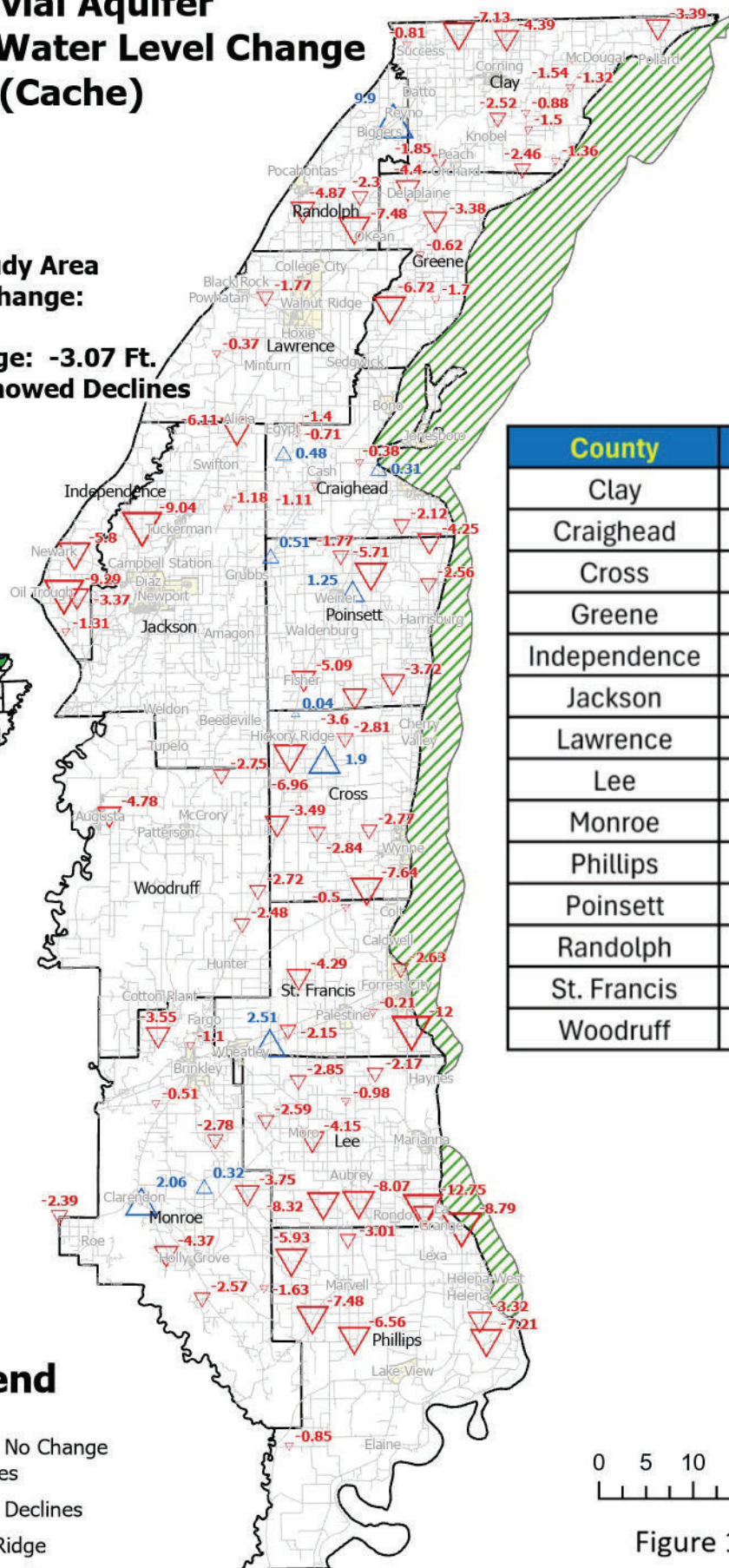
**Cache Study Area
5 Year Change:**

**Average Change: -3.07 Ft.
83 of 93 Wells Showed Declines**



Legend

- △ Wells with No Change or Increases
- ▽ Wells with Declines
- Crowley's Ridge
- County Boundaries



County	Avg. Change, ft.
Clay	-2.43
Craighead	-0.70
Cross	-3.07
Greene	-3.36
Independence	-4.94
Jackson	-5.44
Lawrence	-1.07
Lee	-5.19
Monroe	-1.84
Phillips	-5.39
Poinsett	-2.77
Randolph	-1.19
St. Francis	-2.75
Woodruff	-3.18

0 5 10 20 Miles

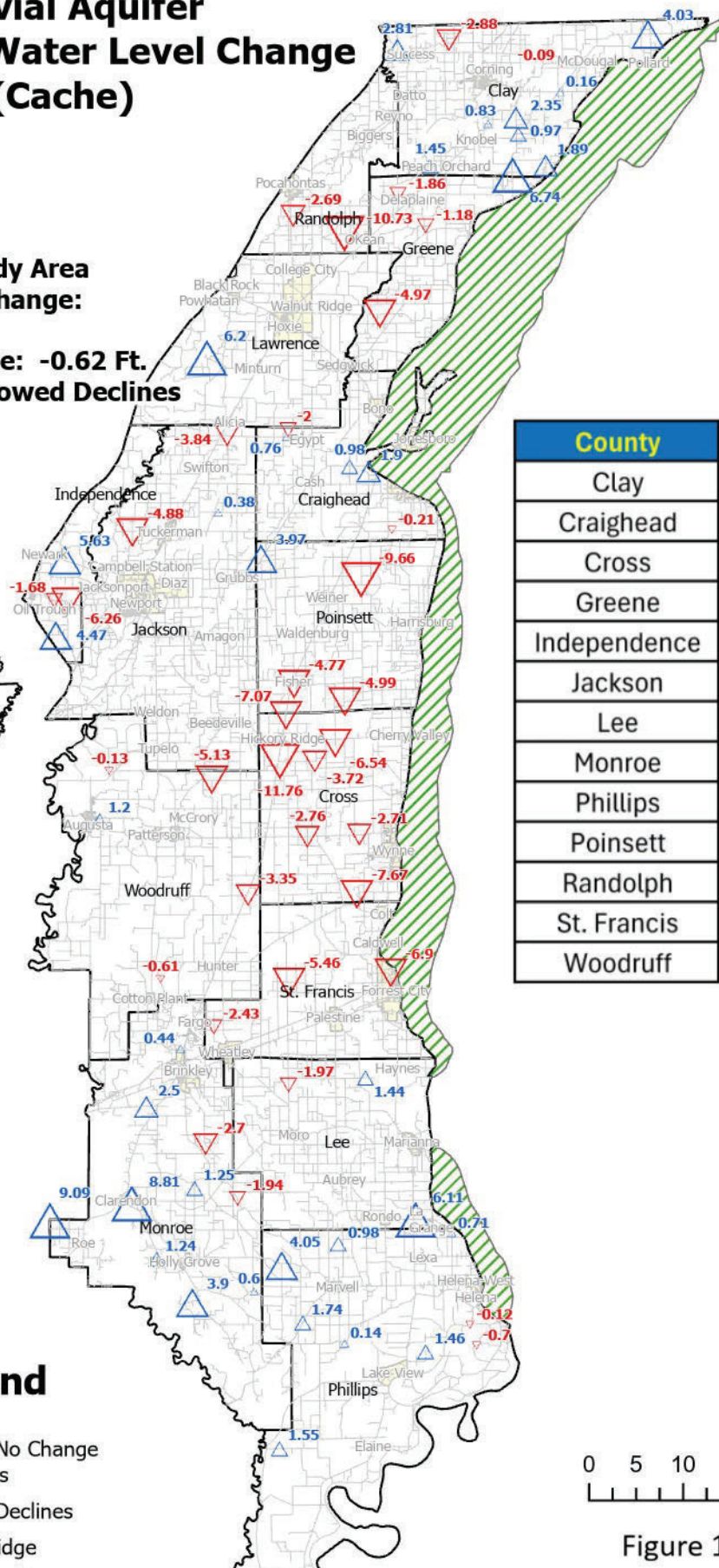
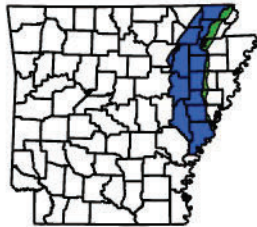
Figure 17

Alluvial Aquifer 2015-2025 Water Level Change (Cache)



**Cache Study Area
10 Year Change:**

**Average Change: -0.62 Ft.
35 of 70 Wells Showed Declines**



County	Avg. Change, ft.
Clay	+1.66
Craighead	+0.29
Cross	-6.03
Greene	-2.67
Independence	+0.54
Jackson	-2.78
Lee	+1.86
Monroe	+2.32
Phillips	+1.09
Poinsett	-3.86
Randolph	-6.71
St. Francis	-4.93
Woodruff	-1.60

Legend

- Wells with No Change or Increases
- Wells with Declines
- Crowleys Ridge
- County Boundaries

0 5 10 20 Miles

Figure 18

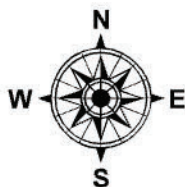
Alluvial Aquifer 2024-2025 Water Level Change (St. Francis)



**St. Francis Study Area
1 Year Change:**

**Average Change: +1.98 Ft.
8 of 58 Wells Showed Declines**

County	Avg. Change, ft.
Clay	+2.25
Craighead	+0.66
Crittenden	+2.51
Cross	+3.05
Greene	+2.83
Mississippi	+1.26
Poinsett	+4.46



Legend

- Wells with No Change or Increases
- Wells with Declines
- Crowleys Ridge
- County Boundaries

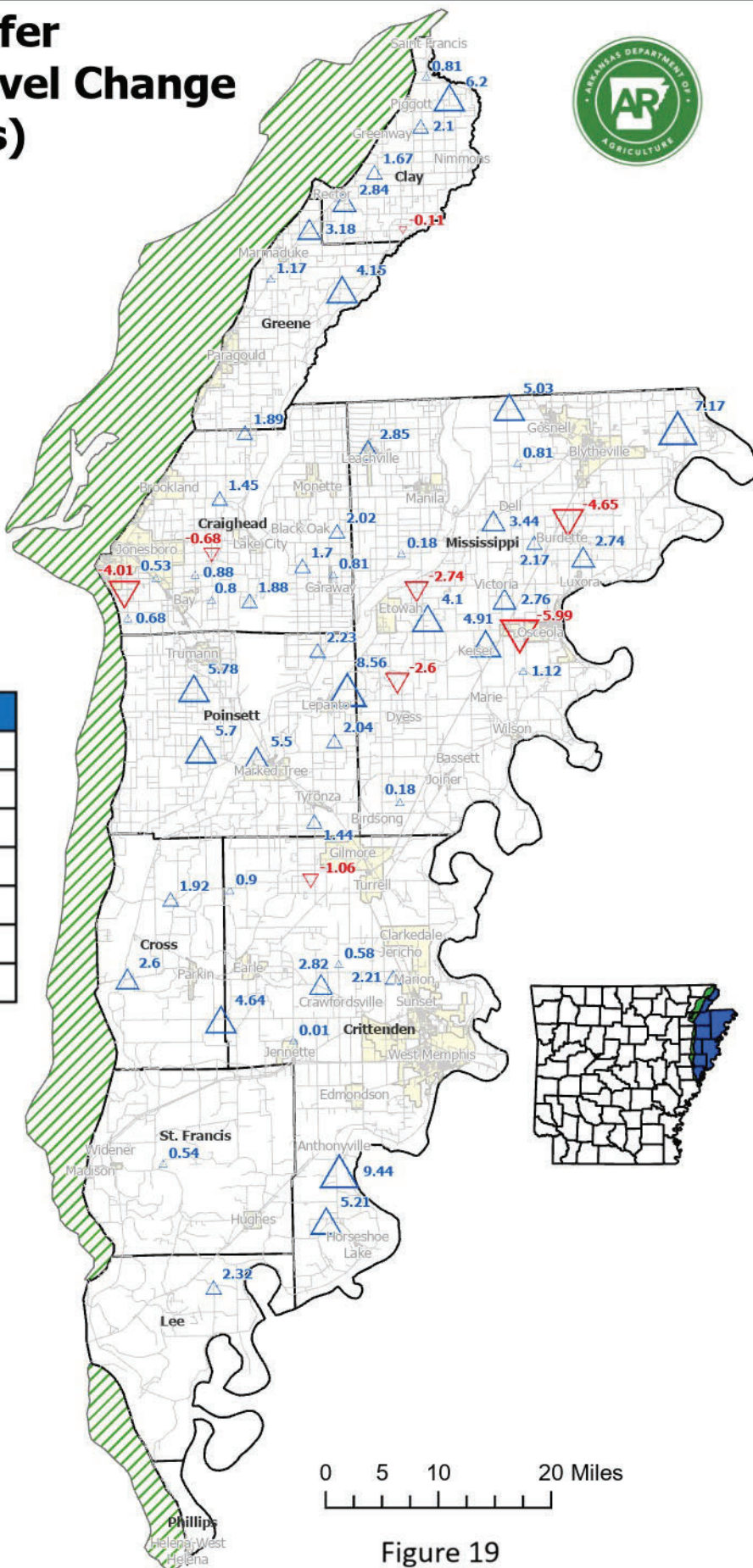
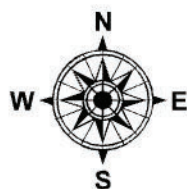


Figure 19

Average Change: -2.91 Ft.
54 of 58 Wells Showed Declines

County	Avg. Change, ft.
Clay	-0.70
Craighead	-2.64
Crittenden	-0.89
Cross	-2.45
Greene	-5.32
Lee	-7.61
Mississippi	-4.74
Poinsett	-1.24



Legend

-  Wells with No Change or Increases
 Wells with Declines
 Crowleys Ridge
 County Boundaries

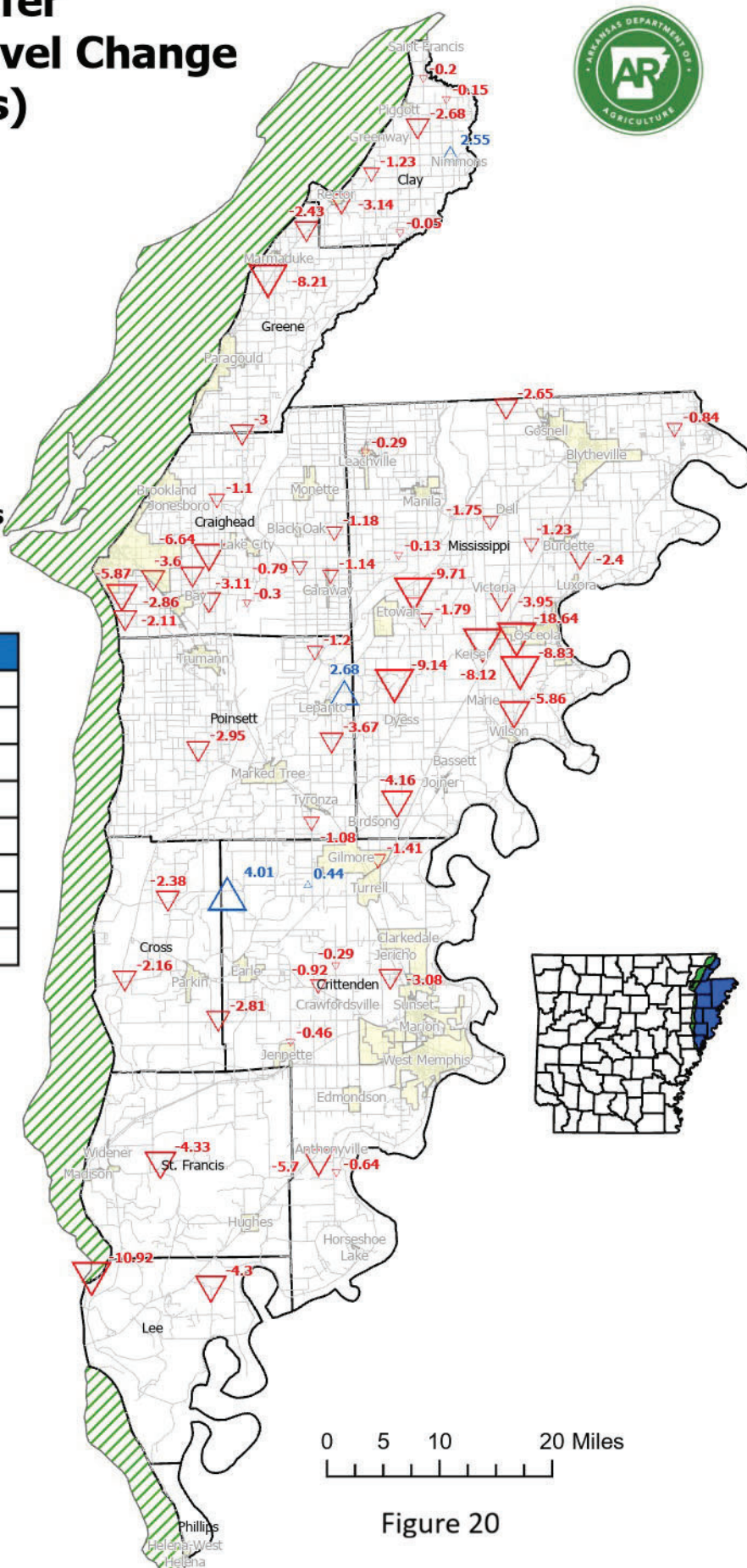


Figure 20

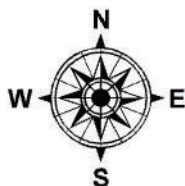
Alluvial Aquifer 2015-2025 Water Level Change (St. Francis)



**St. Francis Study Area
10 Year Change:**

**Average Change: +2.76 Ft.
4 of 34 Wells Showed Declines**

County	Avg. Change, ft.
Clay	+1.25
Craighead	+4.22
Crittenden	+2.56
Cross	+2.47
Mississippi	+1.26
Poinsett	+3.76



Legend

- Wells with No Change or Increases
- Wells with Declines
- Crowley's Ridge
- County Boundaries

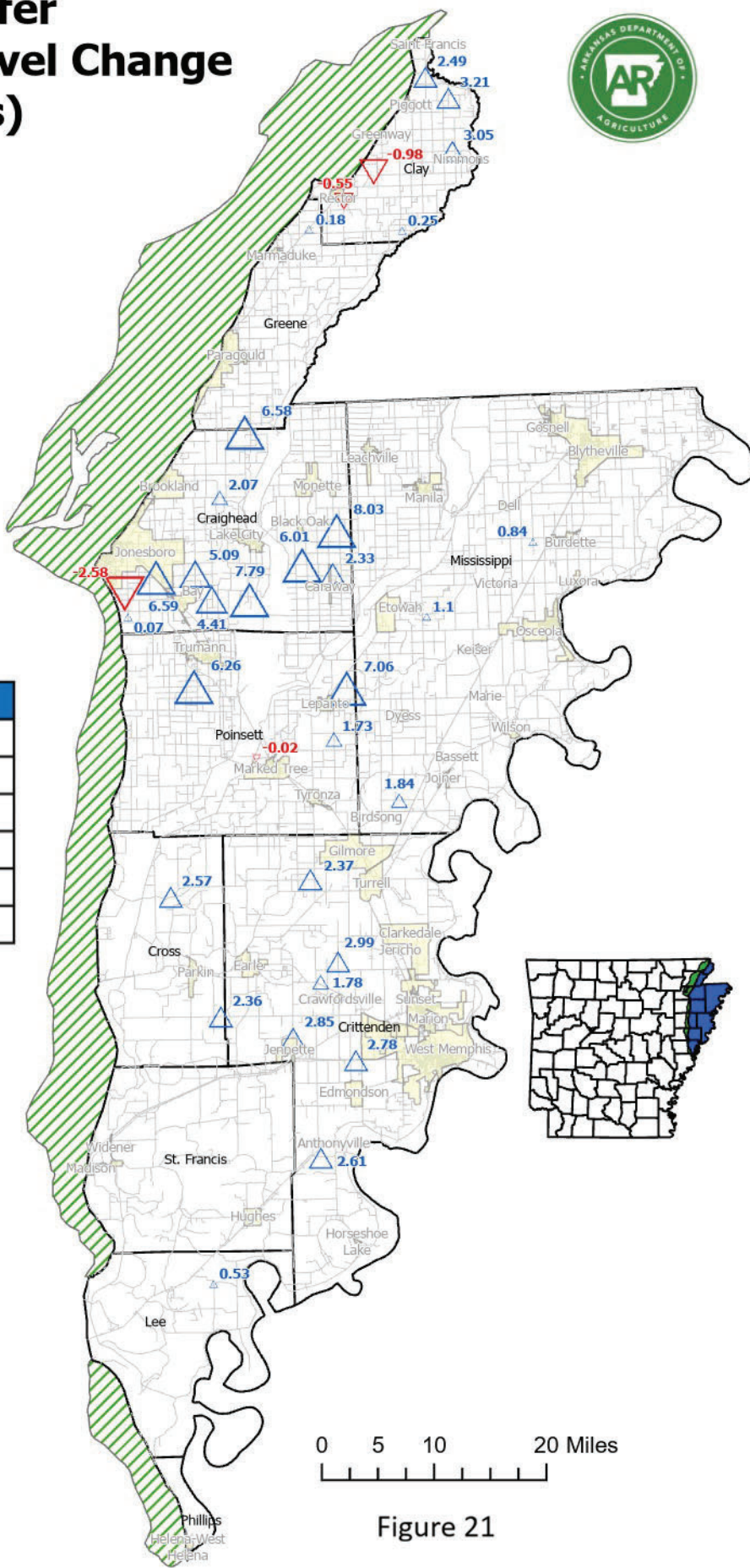
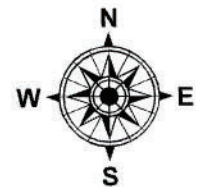


Figure 21



County	Avg. Change, ft.
Arkansas	+1.17
Jefferson	-0.49
Lonoke	+0.70
Prairie	-0.55
Pulaski	+0.07
White	+1.34

 Wells with No Change or Increases
 Wells with Declines
 County Boundaries



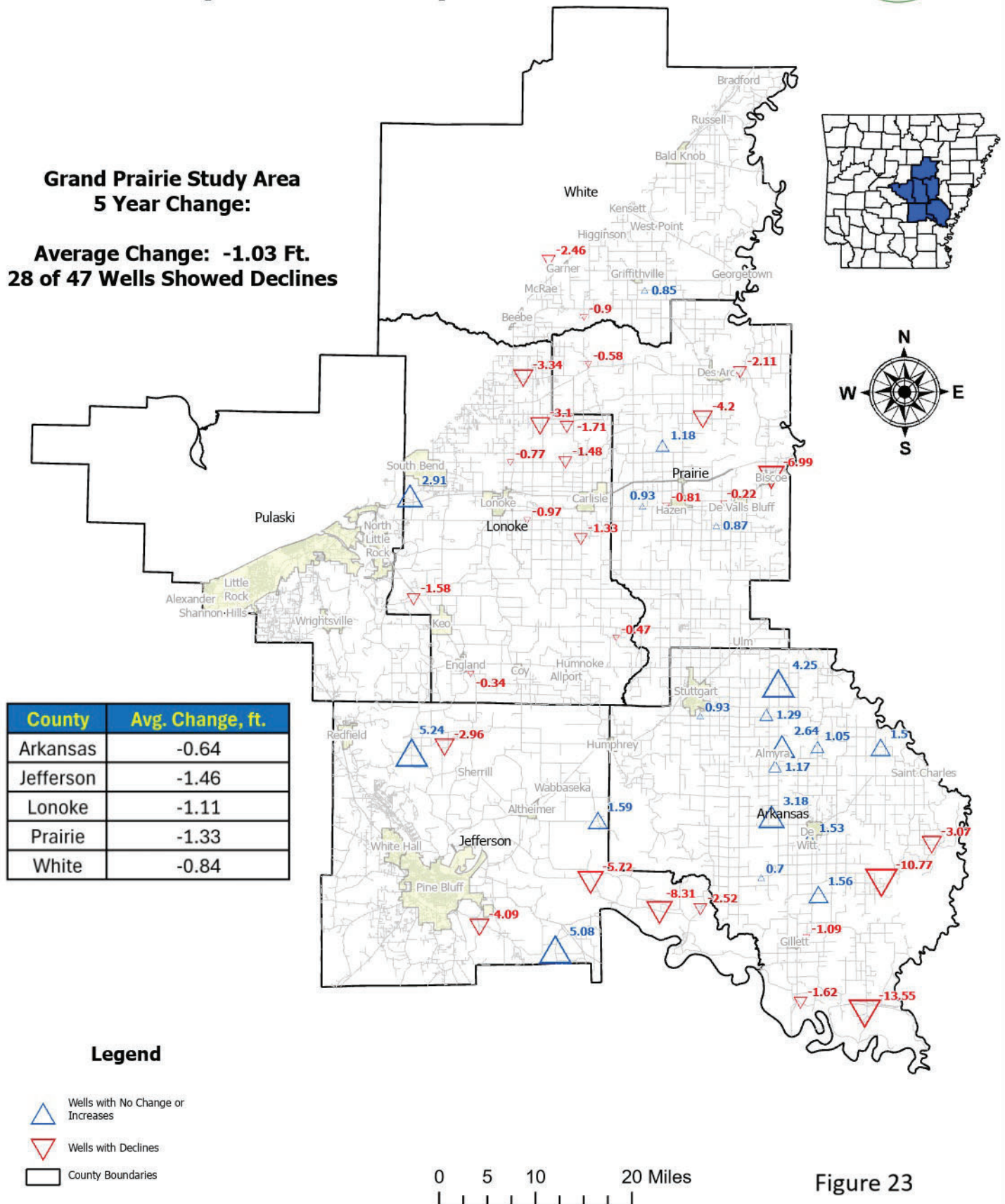
Figure 22

Alluvial Aquifer 2020-2025 Water Level Change (Grand Prairie)



**Grand Prairie Study Area
5 Year Change:**

**Average Change: -1.03 Ft.
28 of 47 Wells Showed Declines**

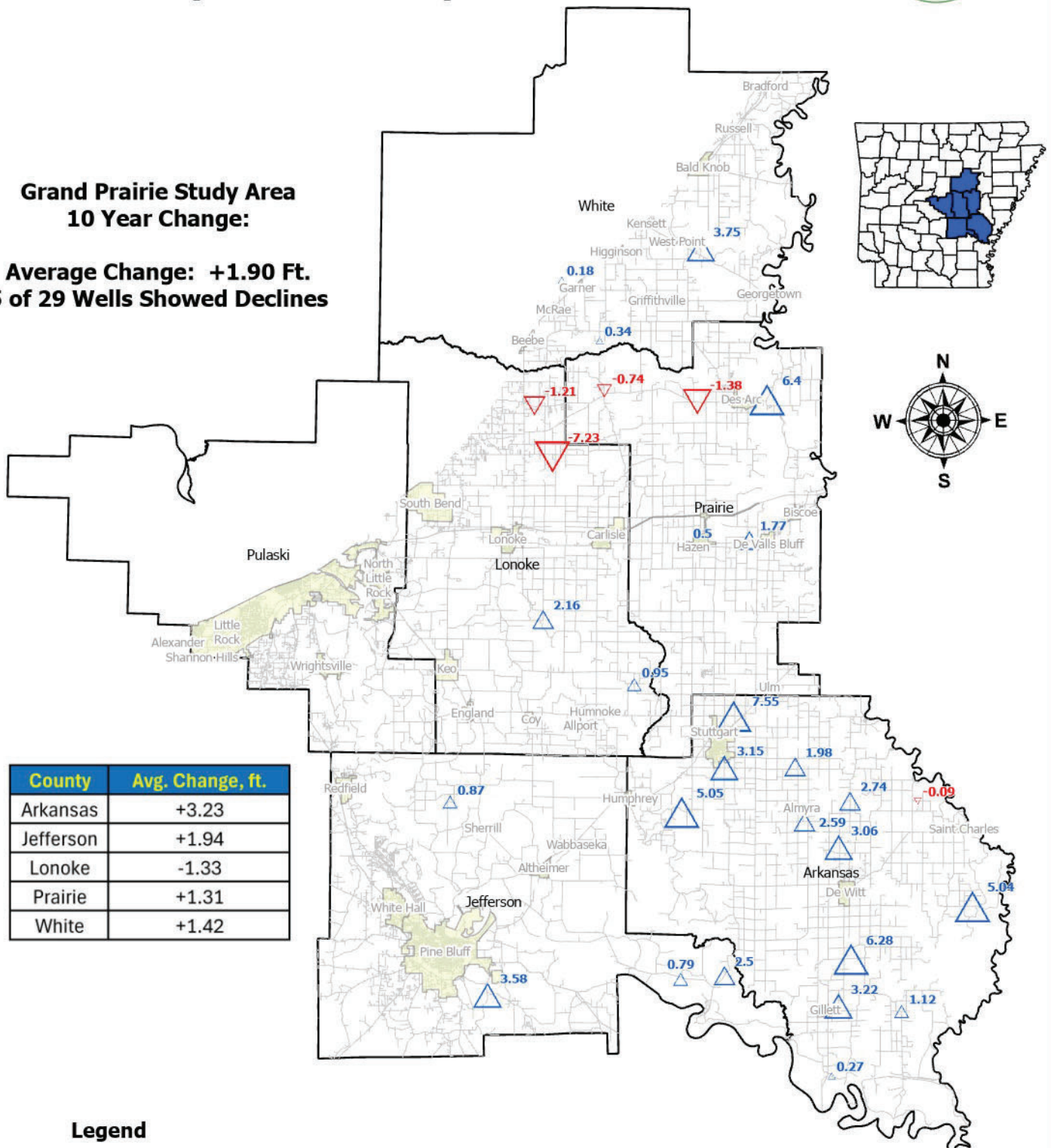


Alluvial Aquifer 2015-2025 Water Level Change (Grand Prairie)



**Grand Prairie Study Area
10 Year Change:**

**Average Change: +1.90 Ft.
5 of 29 Wells Showed Declines**



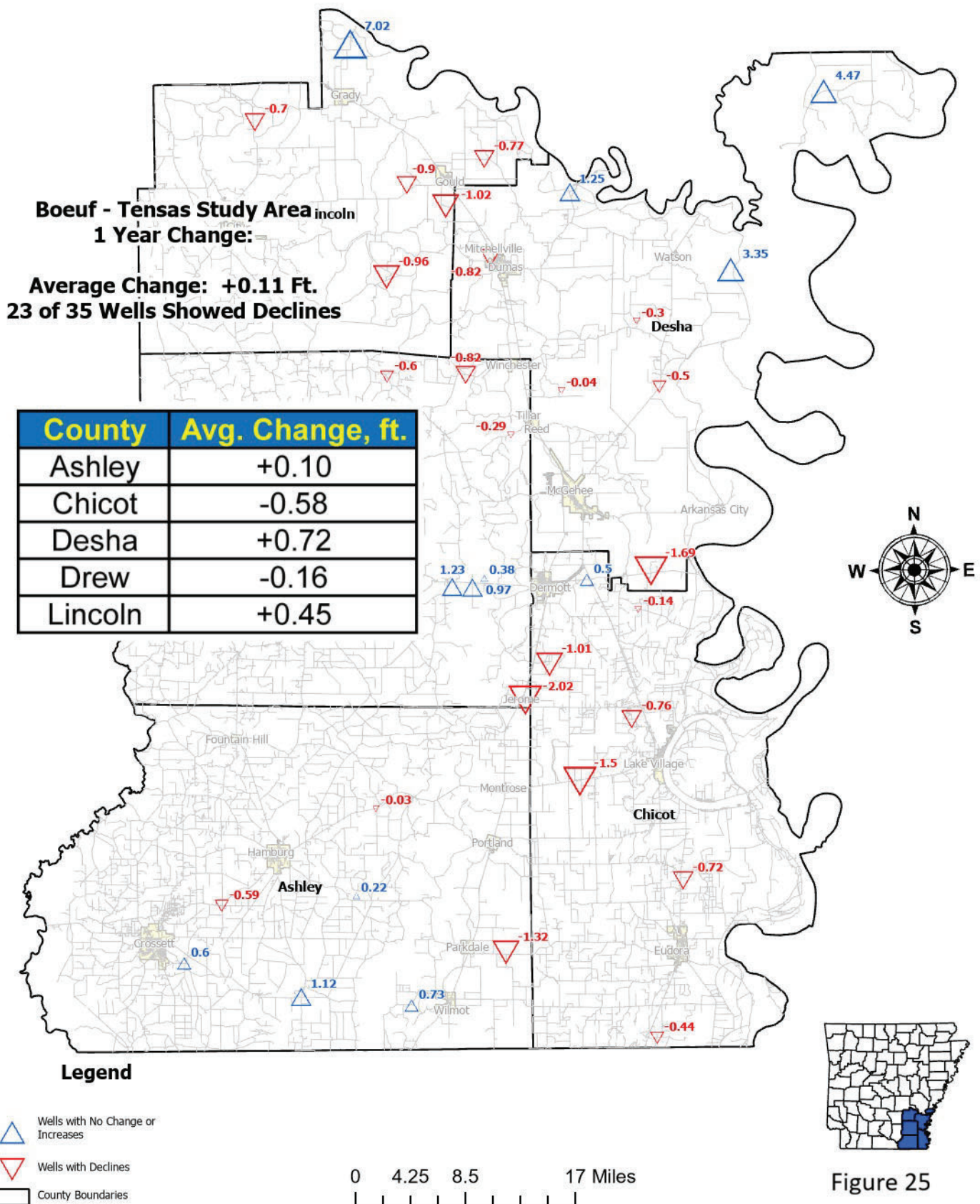
Legend

- Wells with No Change or Increases
- Wells with Declines
- County Boundaries

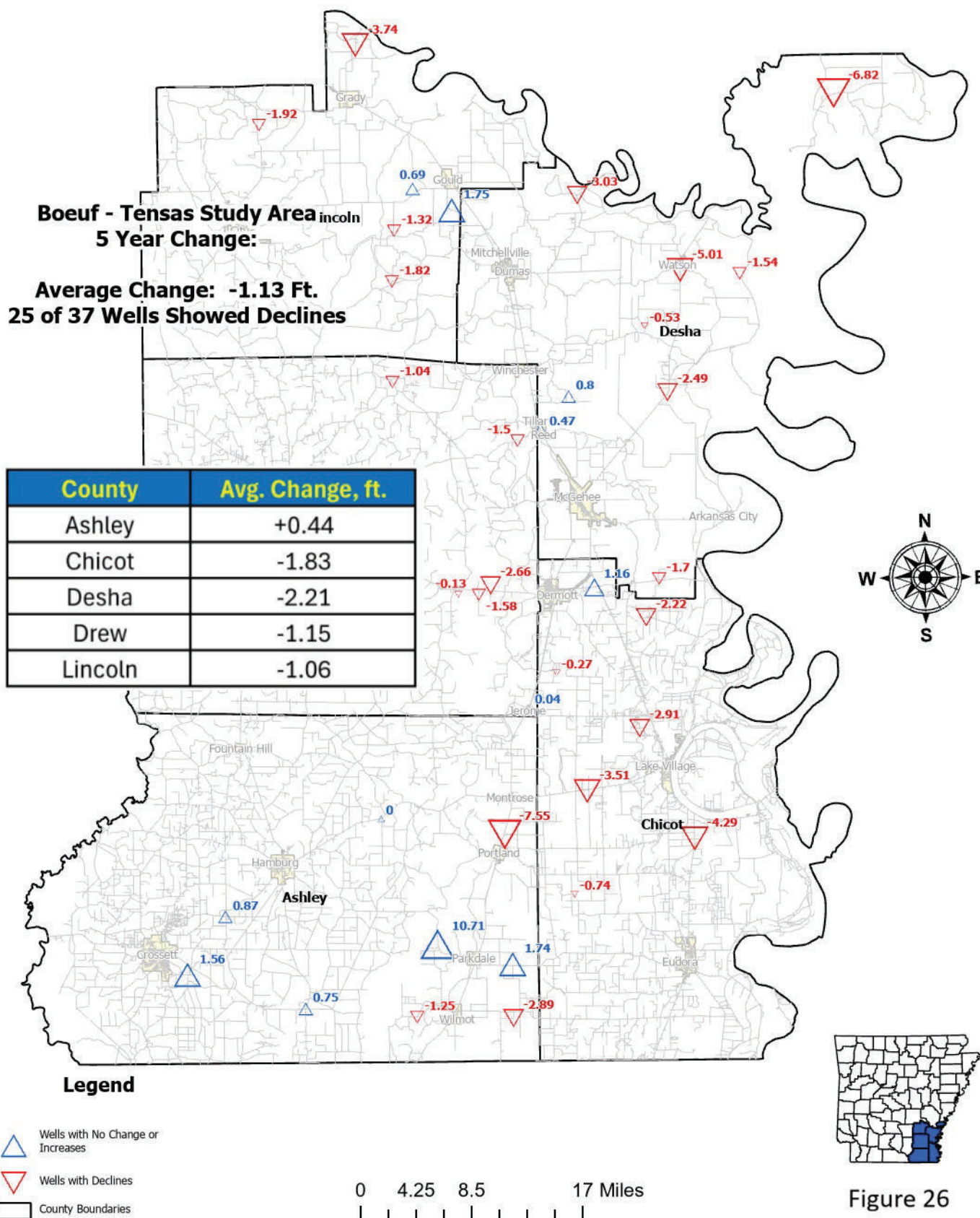
0 5 10 20 Miles

Figure 24

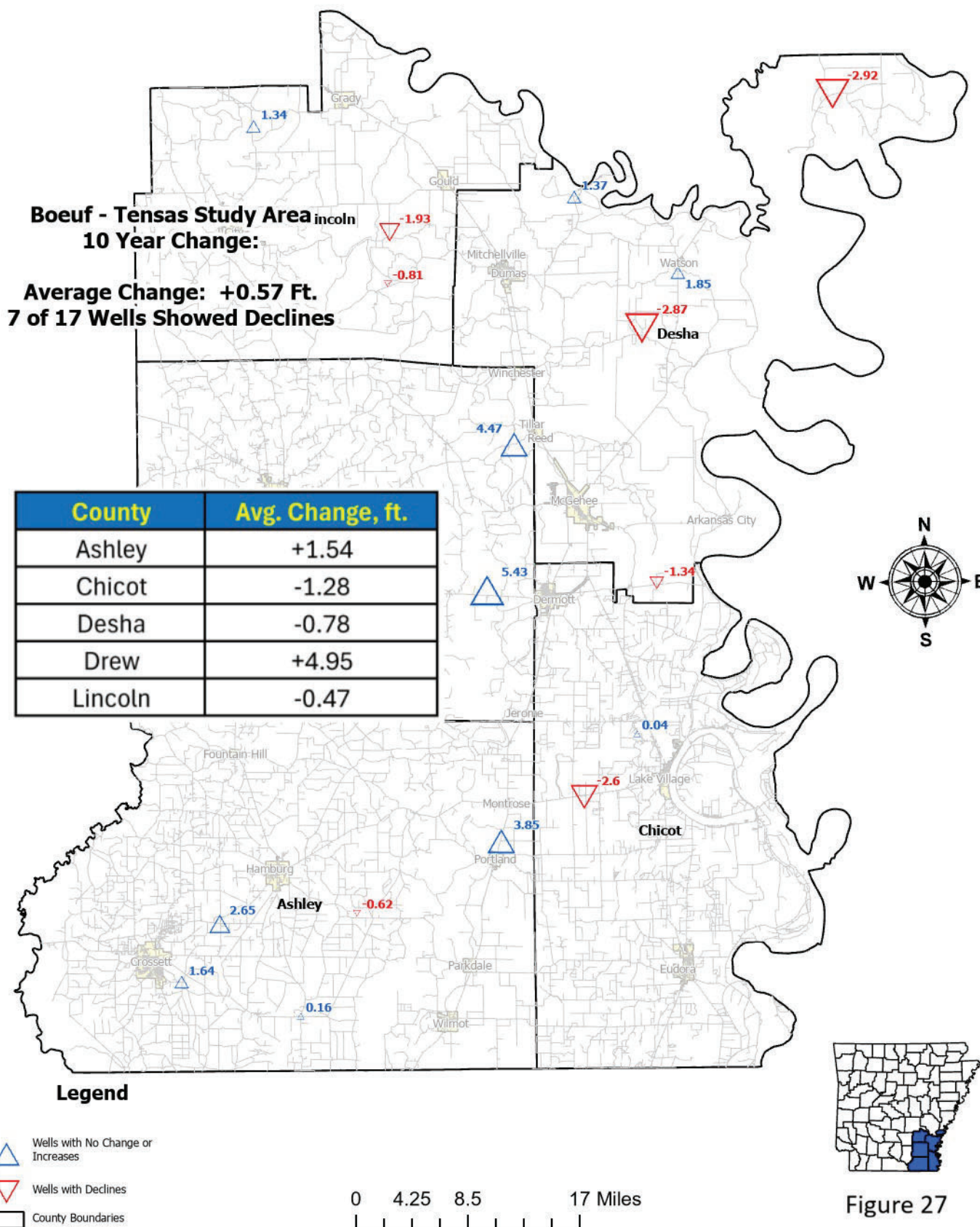
Alluvial Aquifer 2024-2025 Water Level Change (Boeuf - Tensas)



Alluvial Aquifer 2020-2025 Water Level Change (Boeuf - Tensas)



Alluvial Aquifer 2015-2025 Water Level Change (Boeuf - Tensas)



Sparta/Memphis Aquifer

The Sparta/Memphis (Sparta) aquifer, also known as the Sparta Sand, the Memphis Sand/Memphis aquifer, and the middle Claiborne formation, is a tertiary-age, sand-rich aquifer composed mainly of fine- to medium-grained quartz sand with considerable amounts of silt, clay, shale, and lignite found in lenses throughout the unit. The formation outcrops along the western edge of the Mississippi Embayment in Southern Arkansas and is overlain by the Mississippi River Valley Alluvial aquifer throughout Central and Northeastern Arkansas. The Sparta Sand is the thickest sand unit in the Mississippi Embayment system, ranging in thickness from zero to 200 feet along the outcrop and up to 900 feet in the southeastern part of the state. Generally, the Sparta Sand is a confined aquifer system as it is confined by the underlying Cook Mountain formation and overlying Cane River formation. Lithological differences occur in the Sparta aquifer in Southern Arkansas and Northeastern Arkansas. In Southern Arkansas, the Sparta aquifer is divided into two units; the Greensand (upper Sparta) and the El Dorado sand (lower Sparta), by a confining layer. In Northeastern Arkansas, the underlying Cane River and Carrizo Sand formations become sand and are generally indistinguishable from the Sparta Sand; because of this, the three formations are grouped together and referred to as the Memphis Sand, or the Memphis aquifer, in this region (Kresse, T. M., et al., 2014).

Groundwater levels were collected from 157 water wells in the Sparta aquifer during the spring of 2025. Figure 26 depicts the spring 2025 potentiometric surface as water level altitude in feet above mean sea level, and Figure 27 presents the depth to water as feet below ground surface for the Sparta aquifer.

Water Level Trends

Aquifer-wide historical water level data from the Sparta aquifer between 2000–2025 were assessed in the same manner as the Alluvial aquifer using the Mann-Kendall/Sen's slope test. Figure 31 presents the results of the Mann-Kendall portion of the test, with complete results presented in Appendix D. Additionally, water level data from the current year were compared with previous data on a well-to-well basis in one-, five-, and ten-year intervals to further illustrate the water level change of the aquifer over time. An overview of results can be seen in Figure 28, and maps in Figures 32 through 34 below. It should be noted that some of these comparisons lacked adequate data for much of the Sparta and therefore may not be representative of conditions across the entire area of interest.

Overall recovery continues in the areas where historical drawdown has been the most significant in the South Arkansas study area, with the area having positive average water level change of approximately 1.5 feet/year from 2000–2025 across all the wells tested for trends. The area of most significant recovery continues to be Union County where several wells have positive average rates of recovery of 5 feet/year or greater from 2000–2025, with some exceptions in eastern Union County (see Figure 38). Figures 36, 37, and 38 present the South Arkansas well-to-well water level comparison data.

Some apparent patterns of decline can be seen in both trend tests and the well-to-well comparisons. Declining water levels in the Sparta tend to be concentrated near the area where the aquifer is the shallowest and closest to, or in, the recharge zone for the aquifer. This pattern of water level decline could result from a gradual change in the hydrogeologic structure of the region due primarily to groundwater withdrawal. Within the Lonoke and Prairie County area, the Sparta aquifer transitions from outcropping at the ground surface at its western extent to subcropping beneath the overlying Alluvial aquifer deposits. In other words, the sediments of the Sparta aquifer lay directly underneath those of the Alluvial aquifer with no significant confining unit between them. This pattern of long-term declining water levels in the Sparta aquifer along the subcropping extent could be in part due to the stresses on the overlying Alluvial aquifer along this area where the Alluvial and Sparta aquifers are hydraulically connected; this potential explanation is supported by similar declines in Alluvial wells situated in the same areas where the Sparta subcrops (see Lonoke, Prairie, Poinsett, and Craighead counties). Only two Sparta wells in the Cache cone of depression had enough historical data for trend testing, and only one with data after 2020; however, both had decreasing water level trends, and the nearby Alluvial aquifer wells had similar decreasing trends. Additionally, many of the wells logged as having been completed within the Alluvial aquifer where there is no clear confining unit between the two aquifers may be completed partially within, and therefore potentially withdrawing from, the Sparta aquifer.

SPARTA AQUIFER 1, 5, AND 10-YEAR INDIVIDUAL WELL COMPARISONS		
1-YEAR AVERAGE CHANGE	5-YEAR AVERAGE CHANGE	10-YEAR AVERAGE CHANGE
-.14 feet	1.01 feet	11.54 feet
PERCENT OF TOTAL WELLS SHOWING DECREASE IN WATER LEVELS		
49.60%	62.96%	20.00%
62 of 125 wells	51 of 81 wells	9 of 45 wells

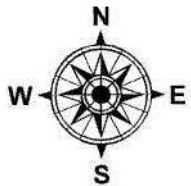
Figure 28: Sparta Aquifer Synoptic Comparisons

Selected water level hydrographs from the Sparta aquifer are presented in Figure 35 and illustrate the changes in water level over time. These hydrographs correspond with the wells shown on Figure 30. All the hydrographs in this figure are from monitoring wells maintained by the Department, the Union County Water Conservation Board, or the USGS, and are measured semi-annually or more during the year or have real-time data loggers installed for continuous water level data.

Appendix B presents a table of specific water-level monitoring data for the Sparta aquifer from the 2025 monitoring period, as well as the one-, five-, and ten-year water level change data.



Sparta Aquifer Water Level Altitude Spring 2025



Legend

- Data Points
- Water Level Altitude, 20 ft. Contours
- Sparta/Memphis Boundary
- County Boundaries

0 10 20 40 Miles

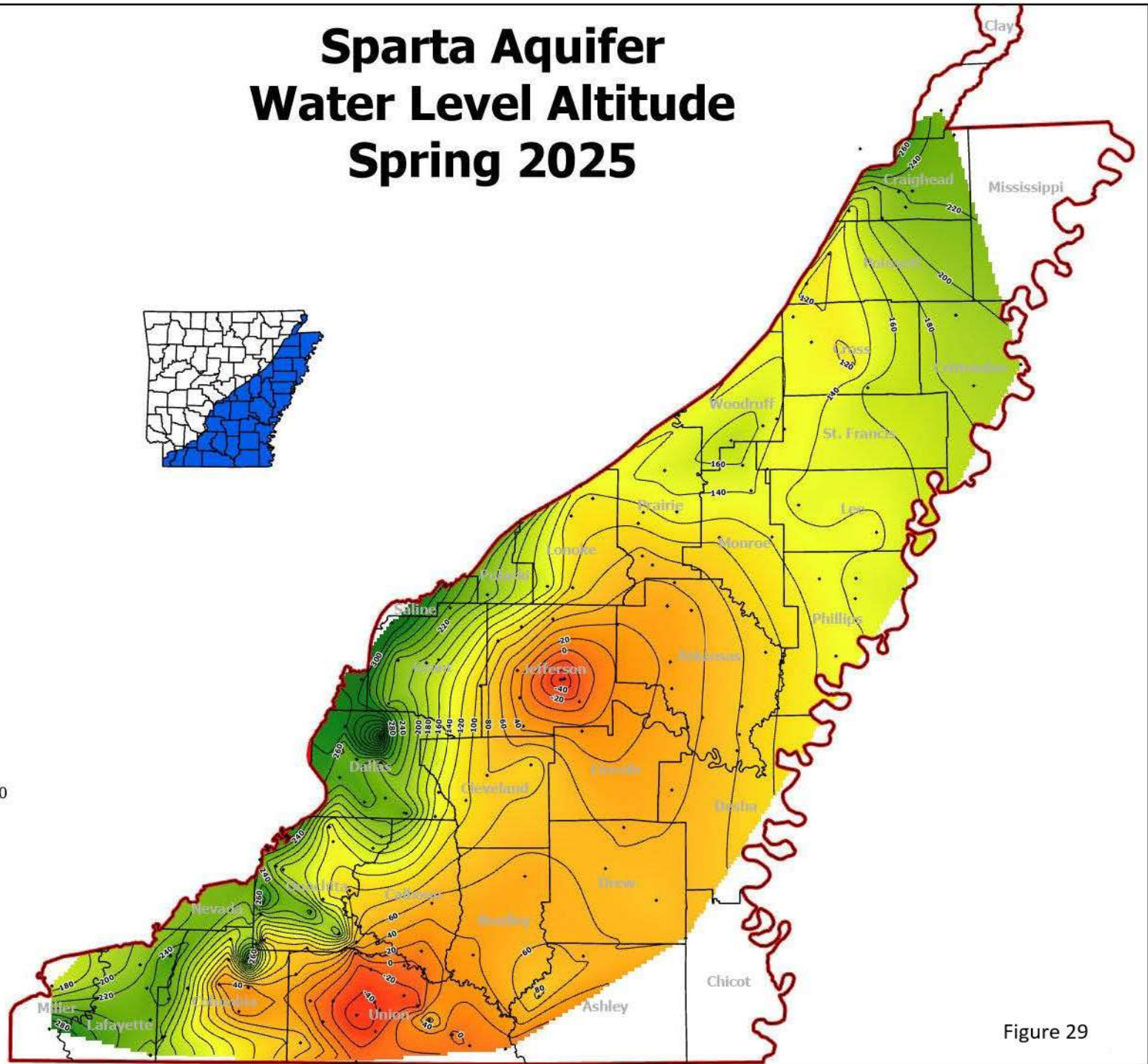
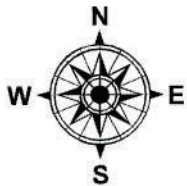
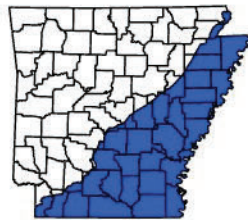


Figure 29



Sparta Aquifer Depth to Water Spring 2025



Legend

- Data Points
- Corresponds To Hydrograph in Fig. 31
- Depth to Water, 20 ft. Contours
- Sparta/Memphis Boundary
- County Boundaries

0 10 20 40 Miles

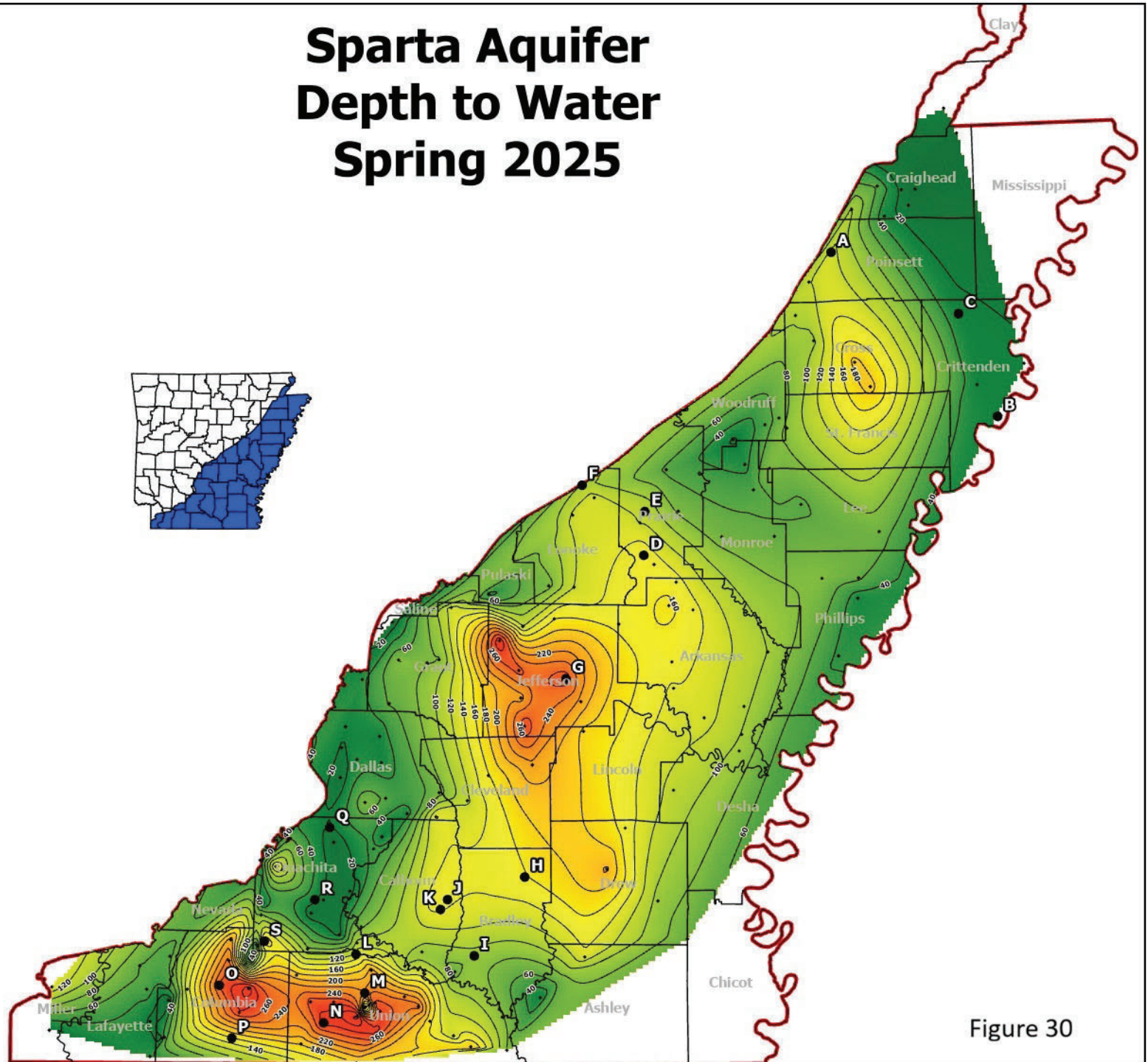
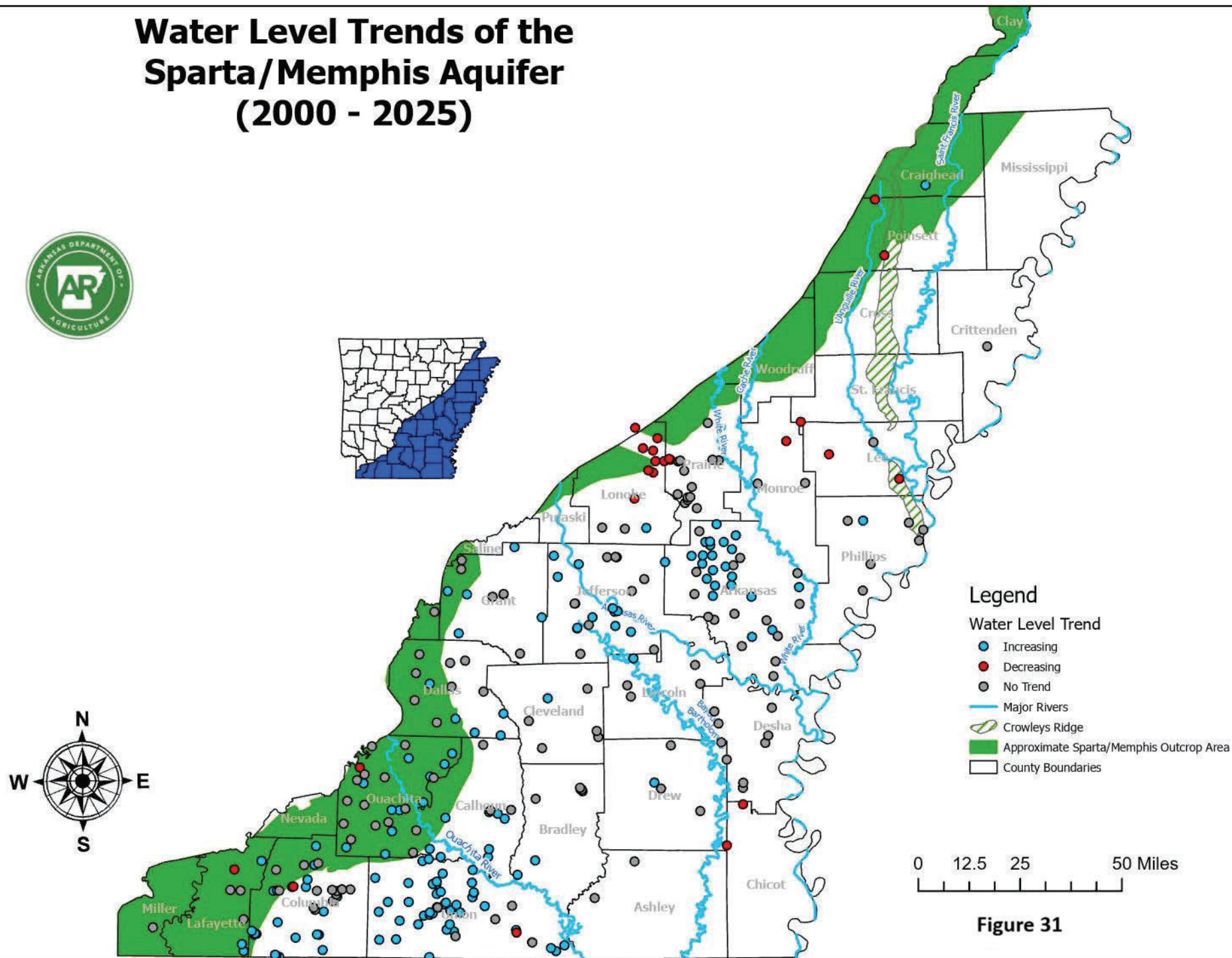


Figure 30

Water Level Trends of the Sparta/Memphis Aquifer (2000 - 2025)



Sparta Aquifer 1 Year Change 2024 - 2025

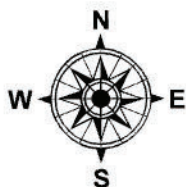
**Sparta Aquifer
1 Year Change:**

**Average Change: -0.14 Ft.
62 of 125 Wells Shown
Declines**

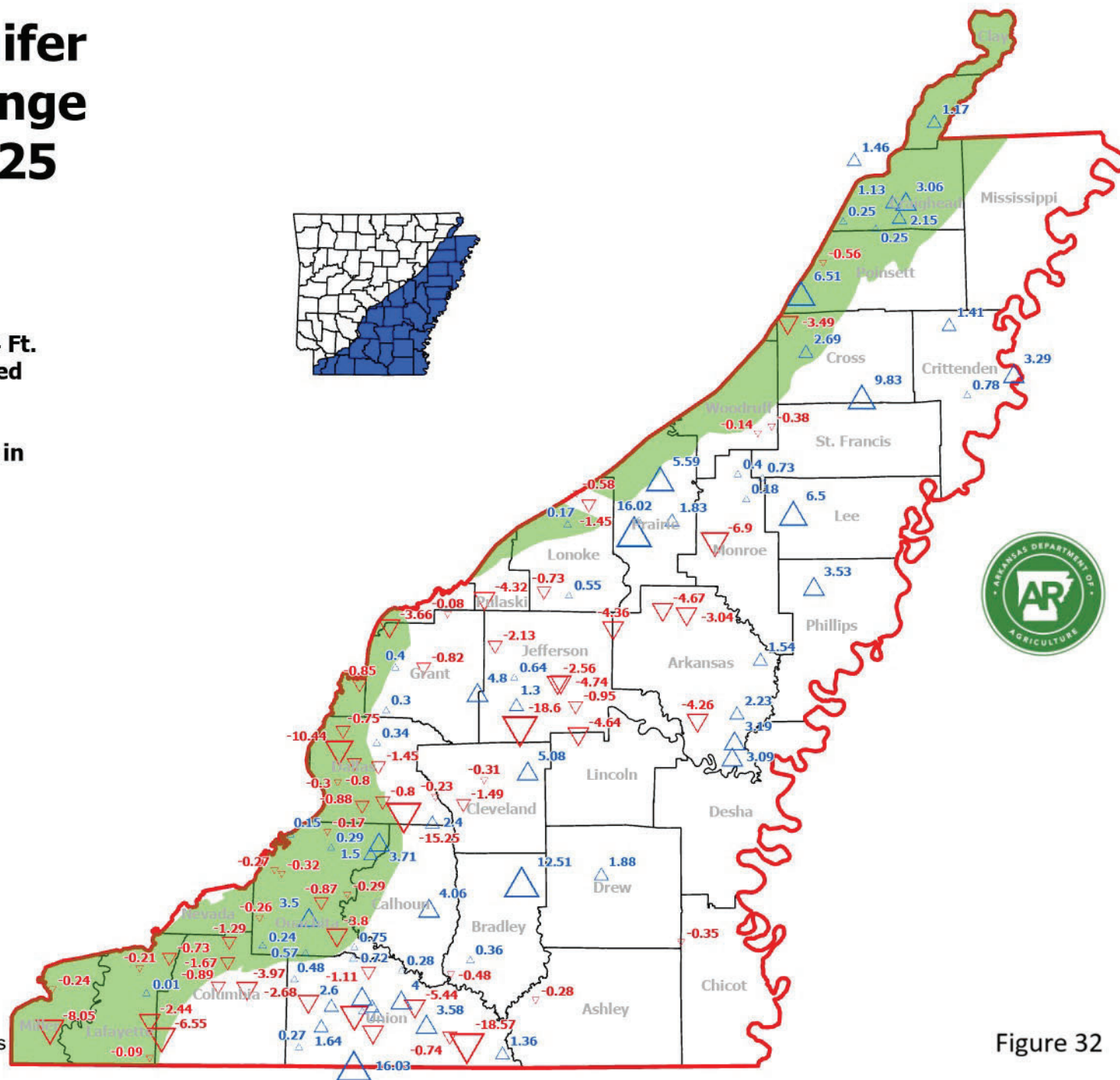
**Percent of Total Wells in
Decline: 49.60%**

Legend

-  Wells with No Change or Increases
-  Wells with Declines
-  Approximate Sparta/
Memphis Outcrop Area
-  County Boundaries



0 12.5 25 50 Miles



Sparta Aquifer 5 Year Change 2020 - 2025

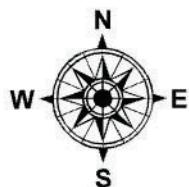
Sparta Aquifer 5 Year Change:

**Average Change: +1.01 Ft.
51 of 81 Wells Showed
Declines**

Percent of Total Wells in Decline: 62.96%

Legend

-  Wells with No Change or Increases
-  Wells with Declines
-  Approximate Sparta/Memphis Outcrop Area
-  County Boundaries



0 12.5 25 50 Miles

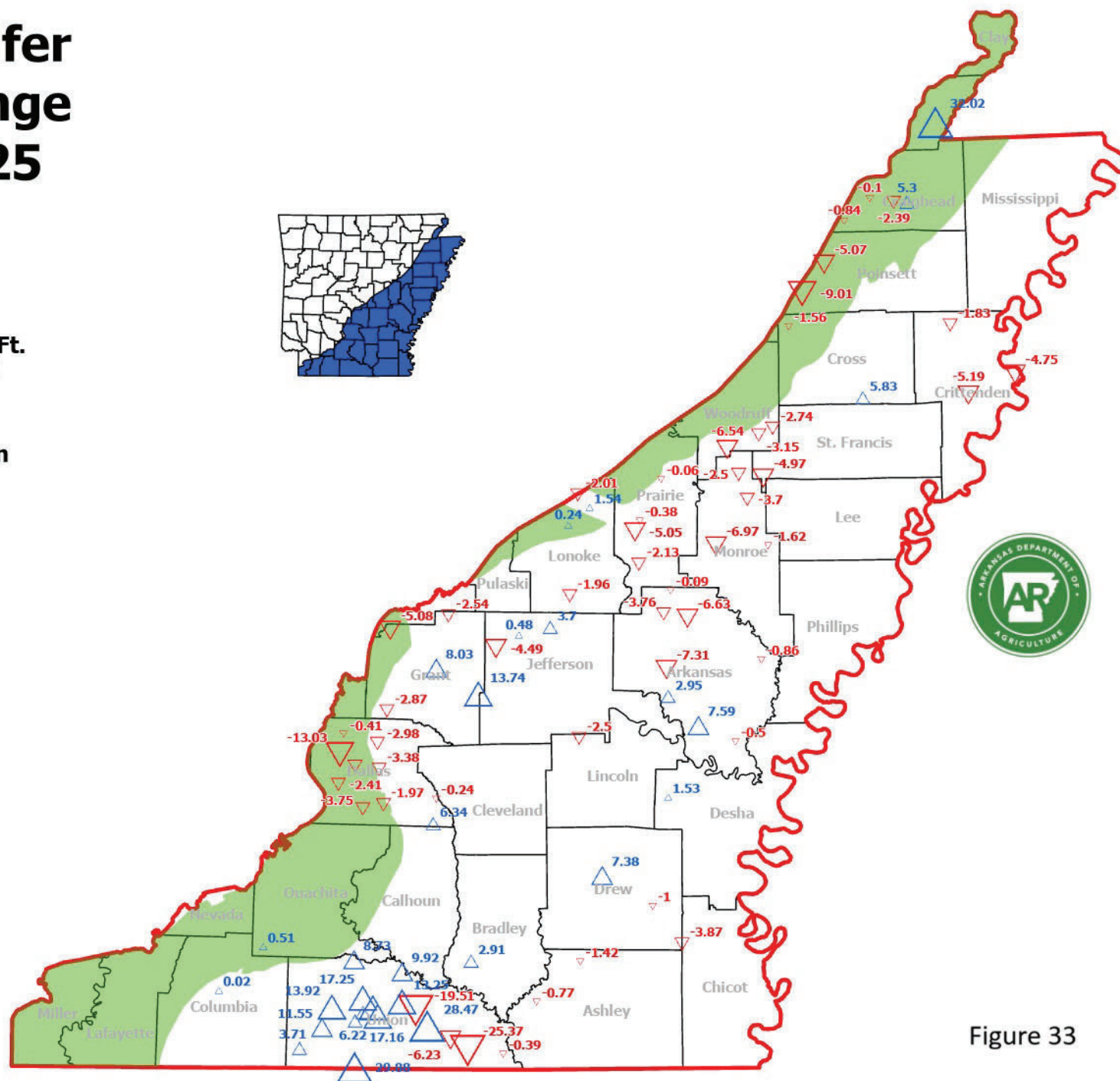


Figure 33

Sparta Aquifer 10 Year Change 2015 - 2025

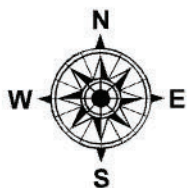
**Sparta Aquifer
10 Year Change:**

**Average Change: +11.54 Ft.
9 of 45 Wells Showed Declines**

**Percent of Total Wells in
Decline: 20.00%**

Legend

-  Wells with No Change or Increases
-  Wells with Declines
-  Approximate Sparta/
Memphis Outcrop Area
-  County Boundaries



0 12.5 25 50 Miles

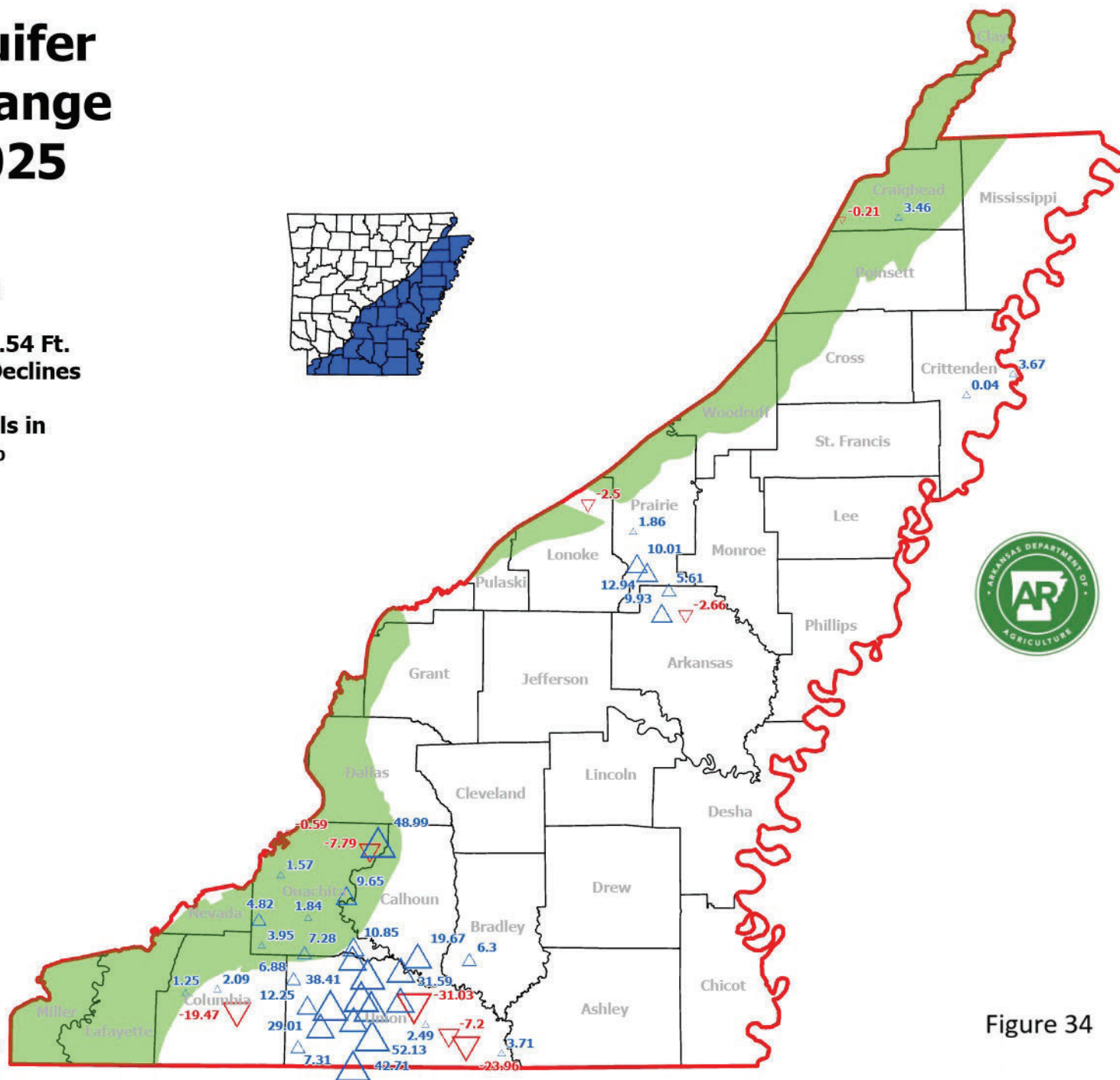
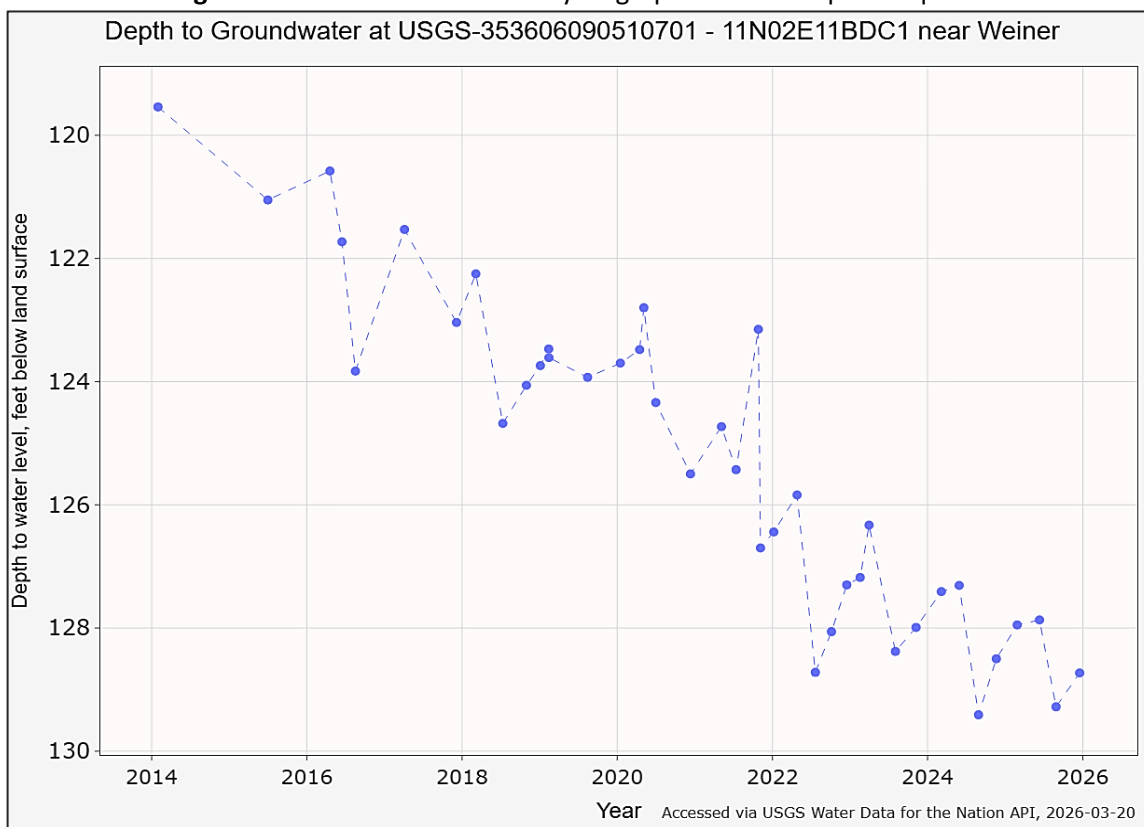
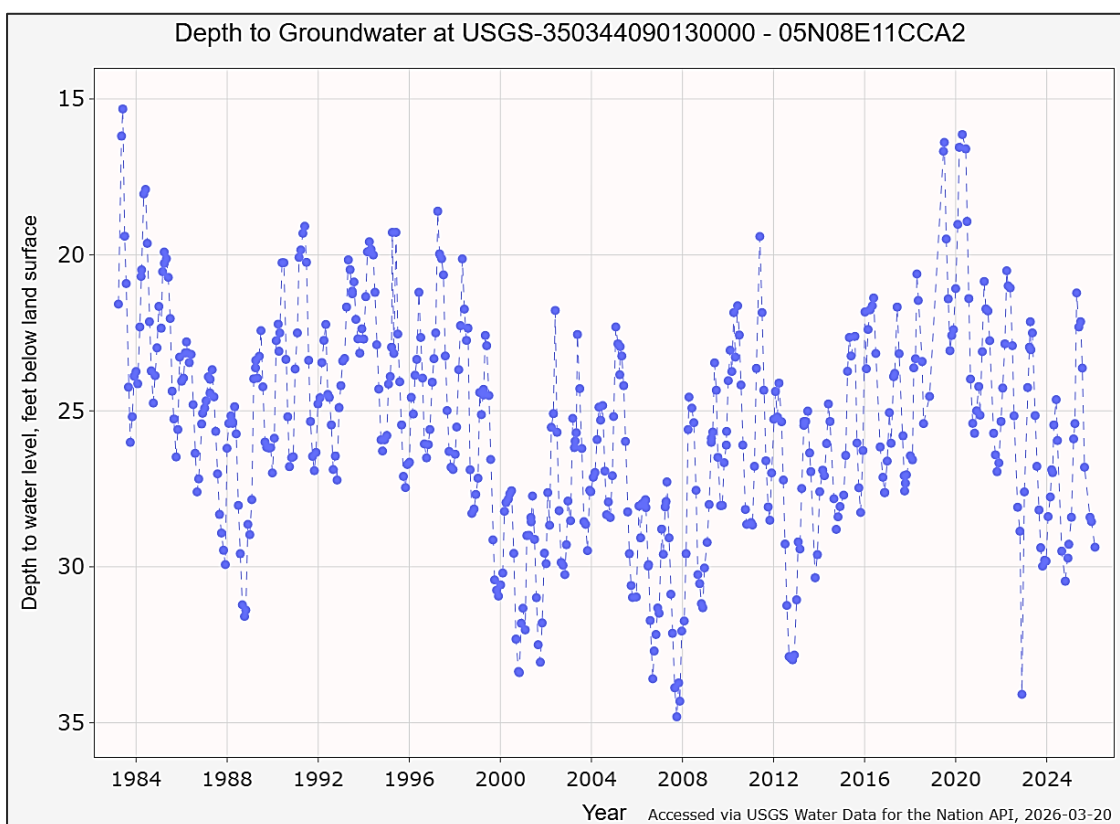


Figure 34

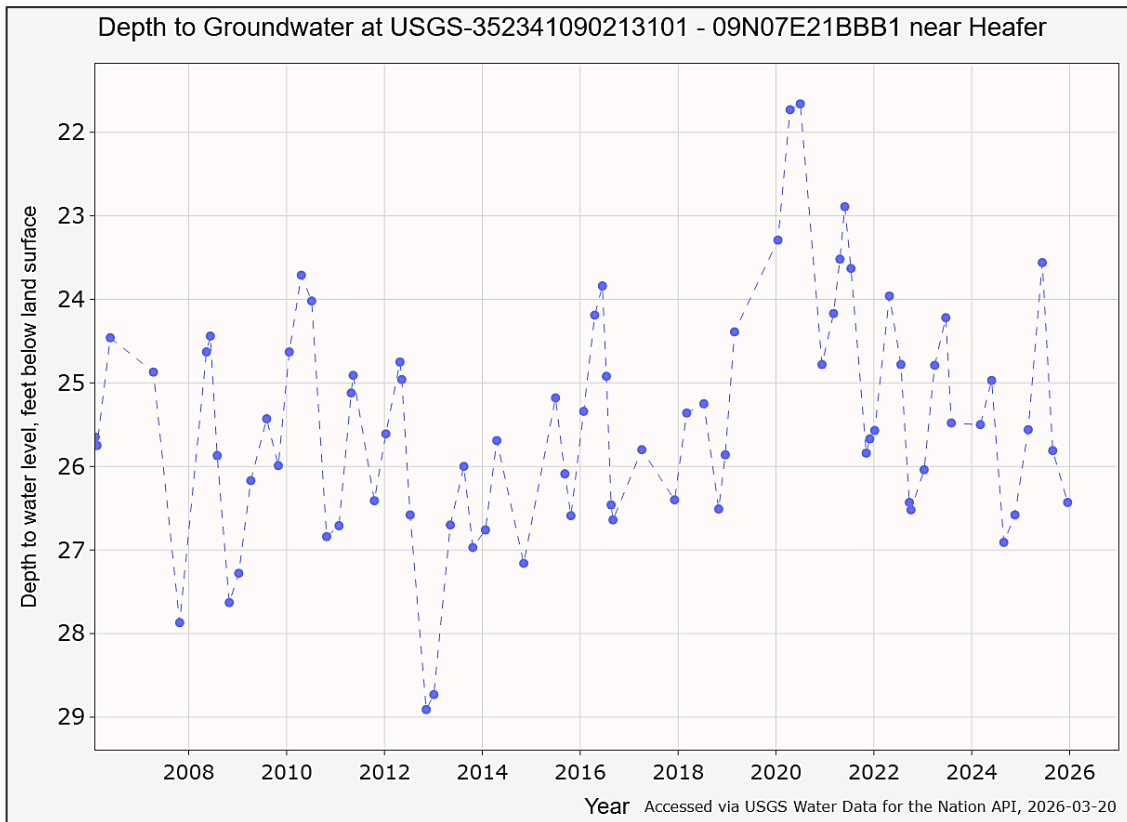
Figure 35. Selected water level hydrographs from the Sparta aquifer



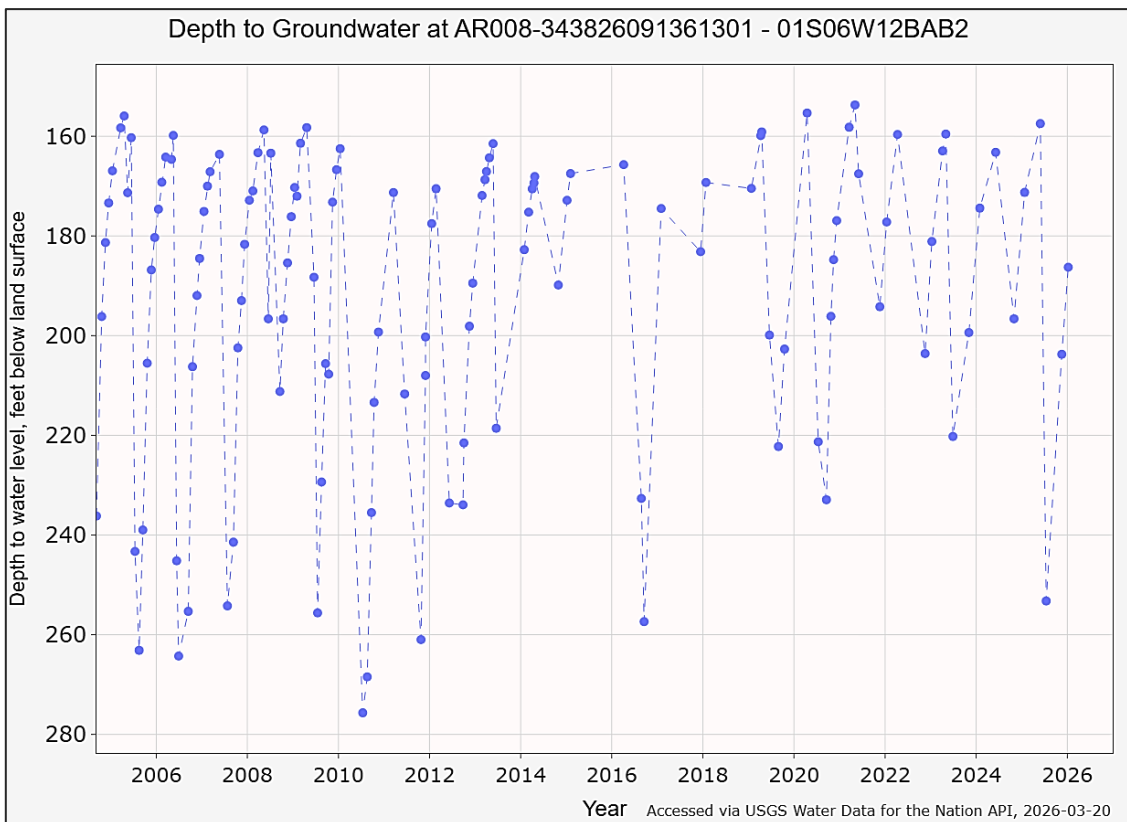
A. Poinsett County, Well 11N02E11BDC1



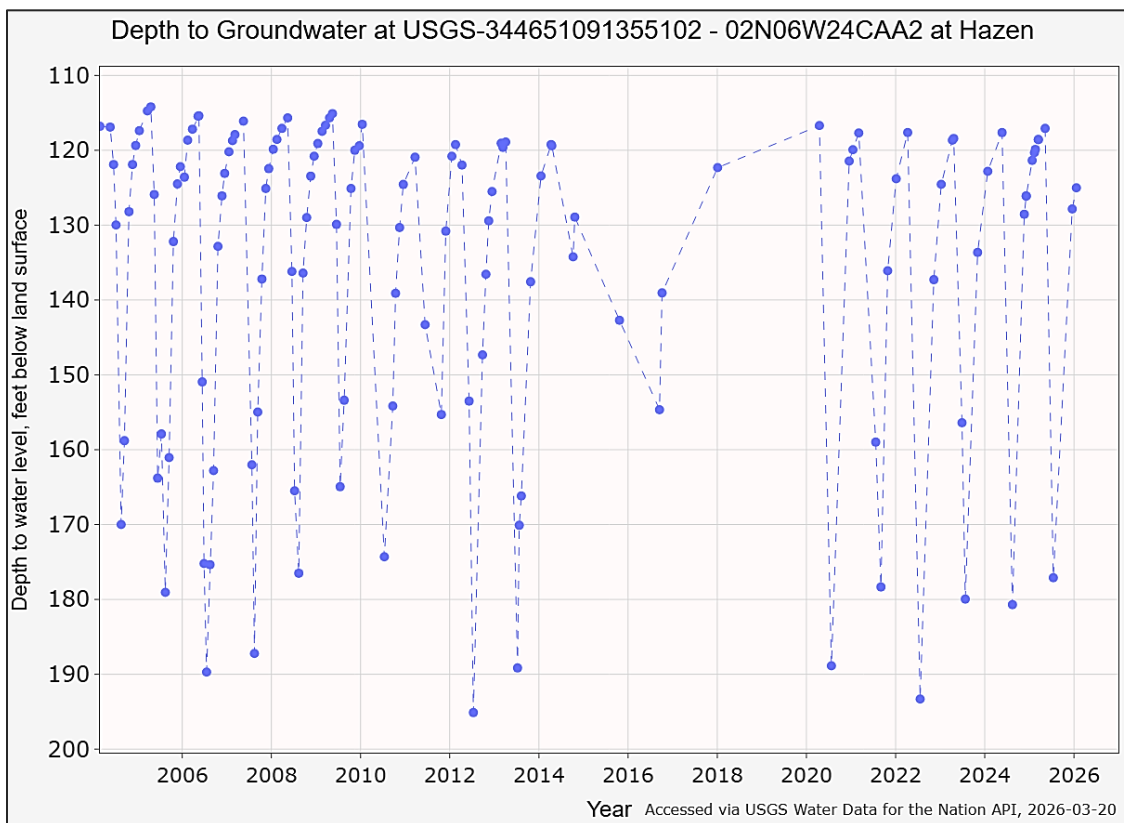
B. Crittenden County, Well 05N08E11CCA2



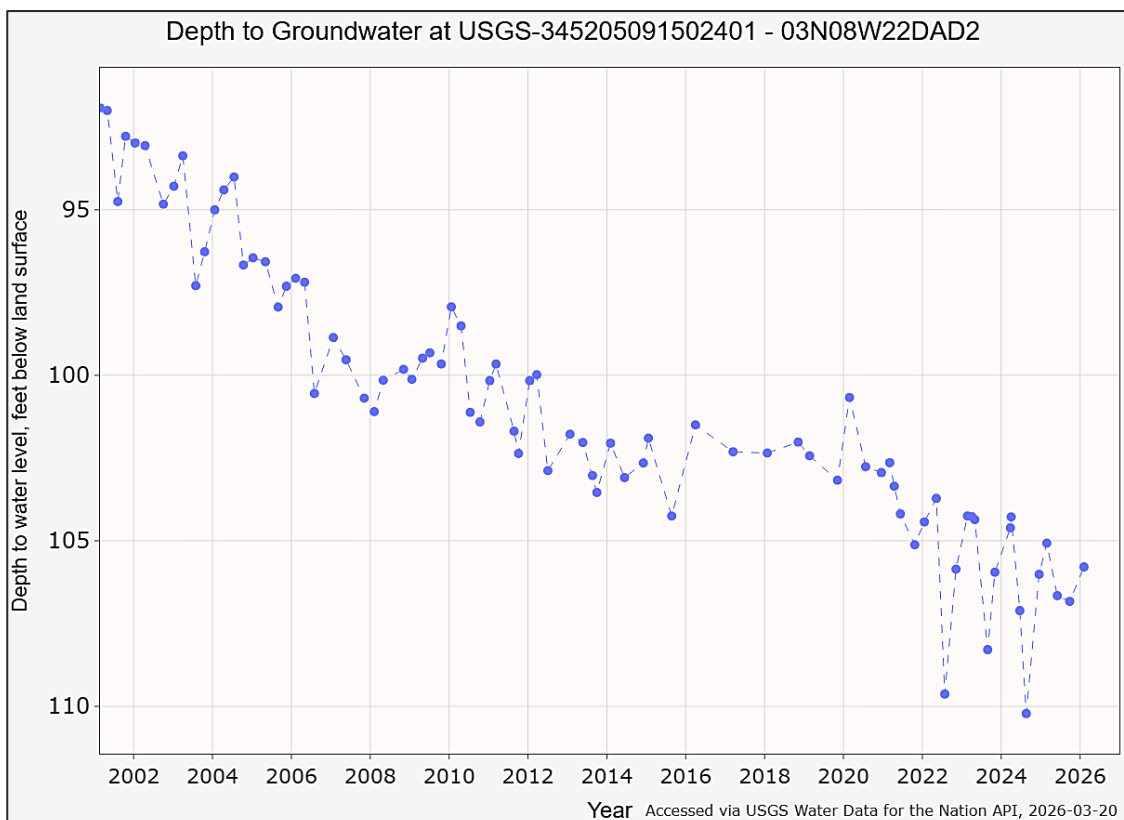
C. Crittenden County, Well 09N07E21BBB1



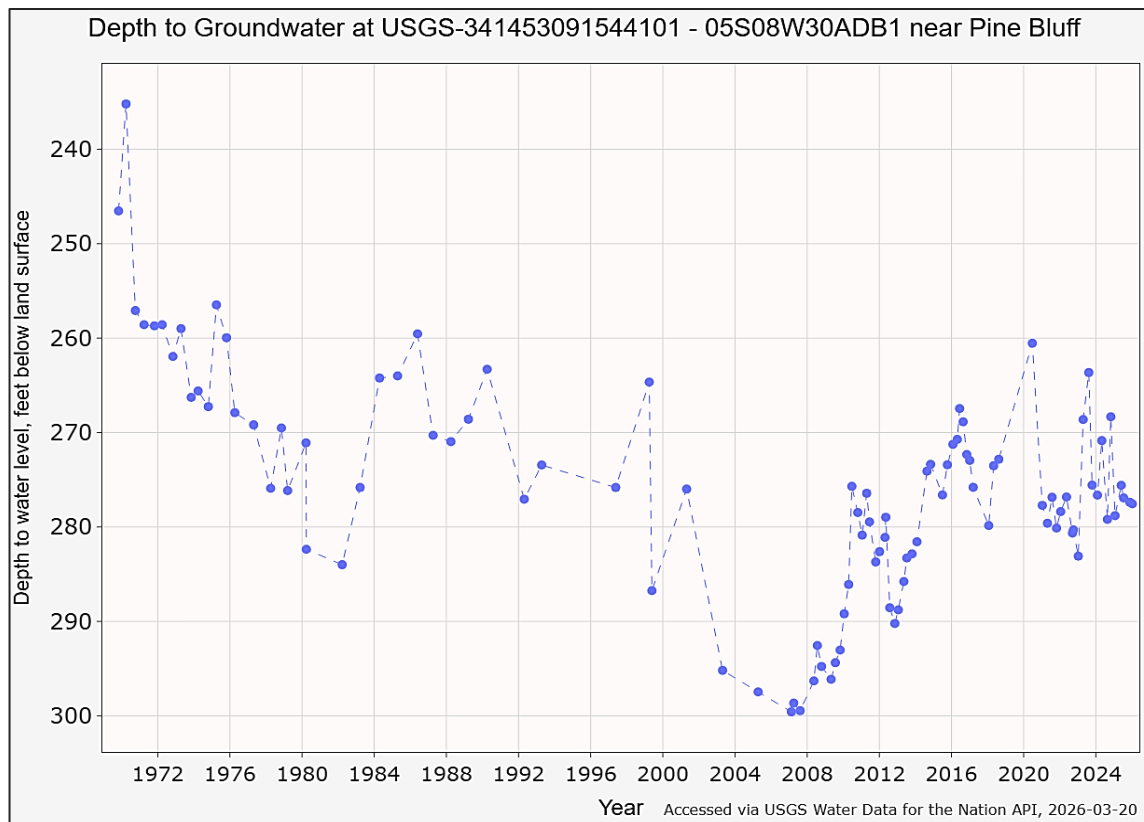
D. Prairie County, Well 01S06W12BAB2



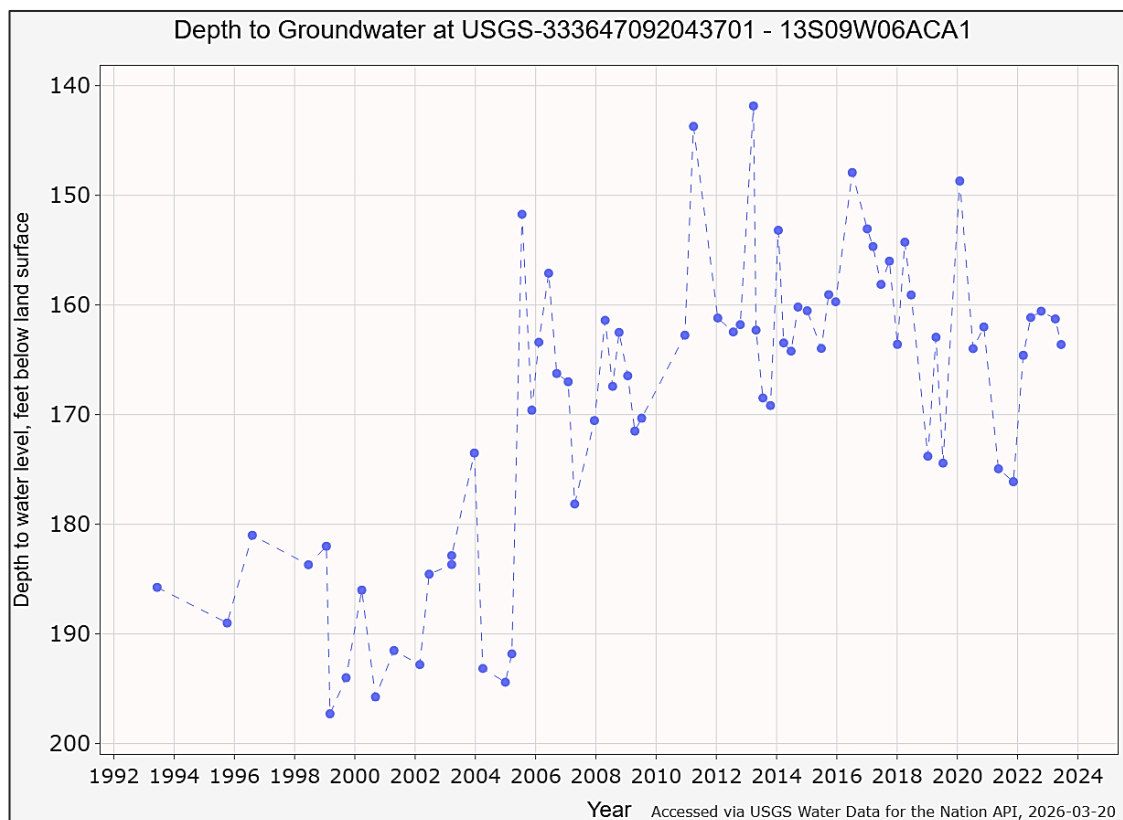
E. Prairie County, Well 02N06W24CAA2



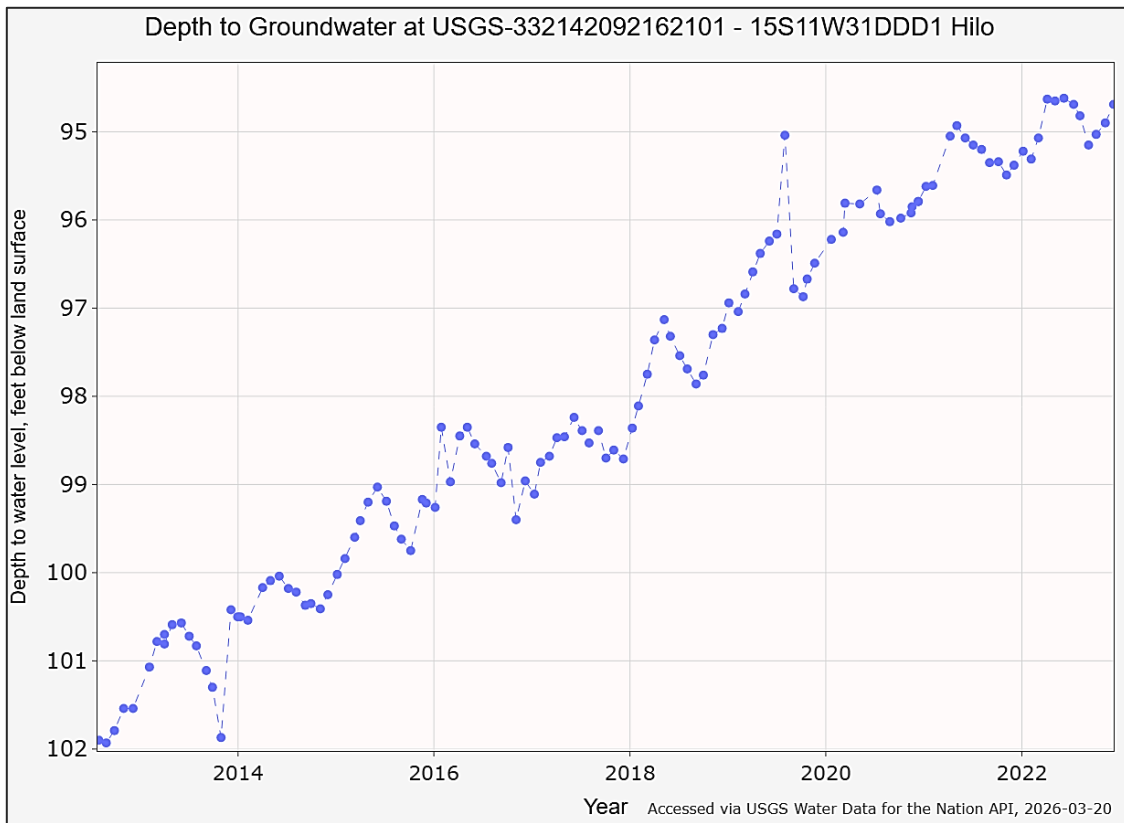
F. Lonoke County, Well 03N08W22DAD2



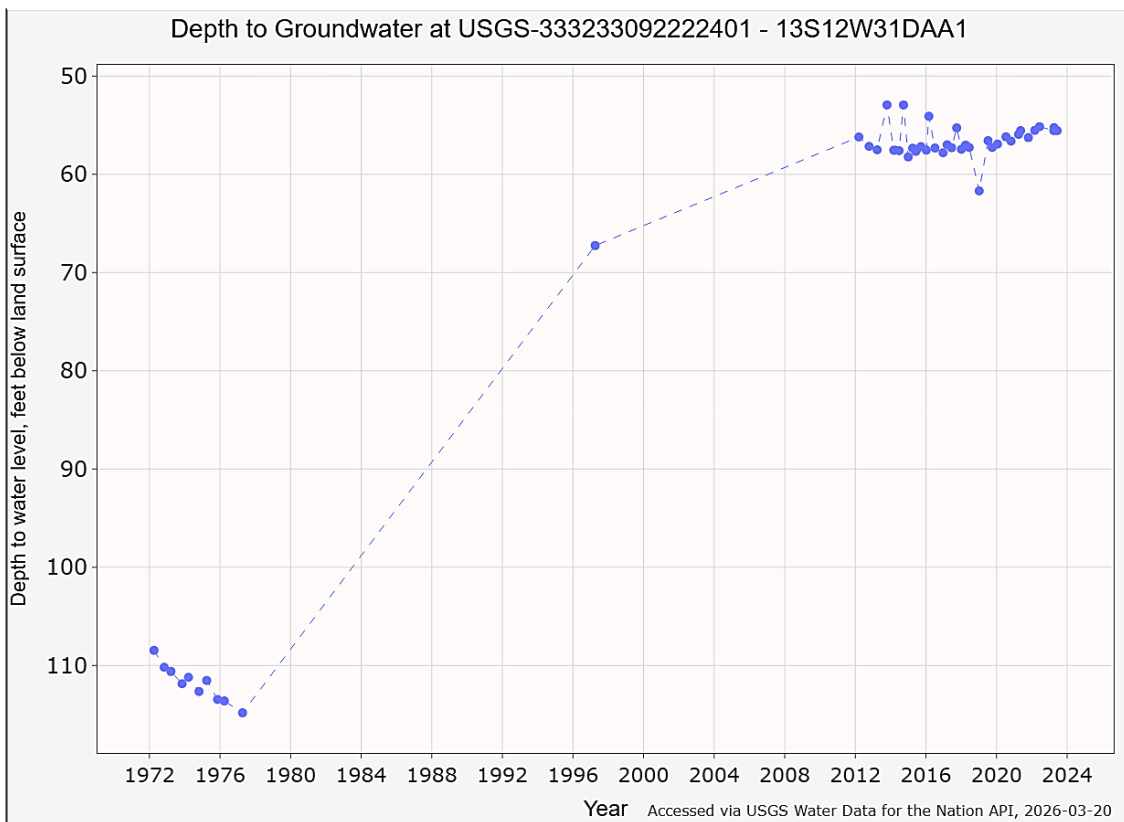
G. Jefferson County, Well 05S08W30ADB1



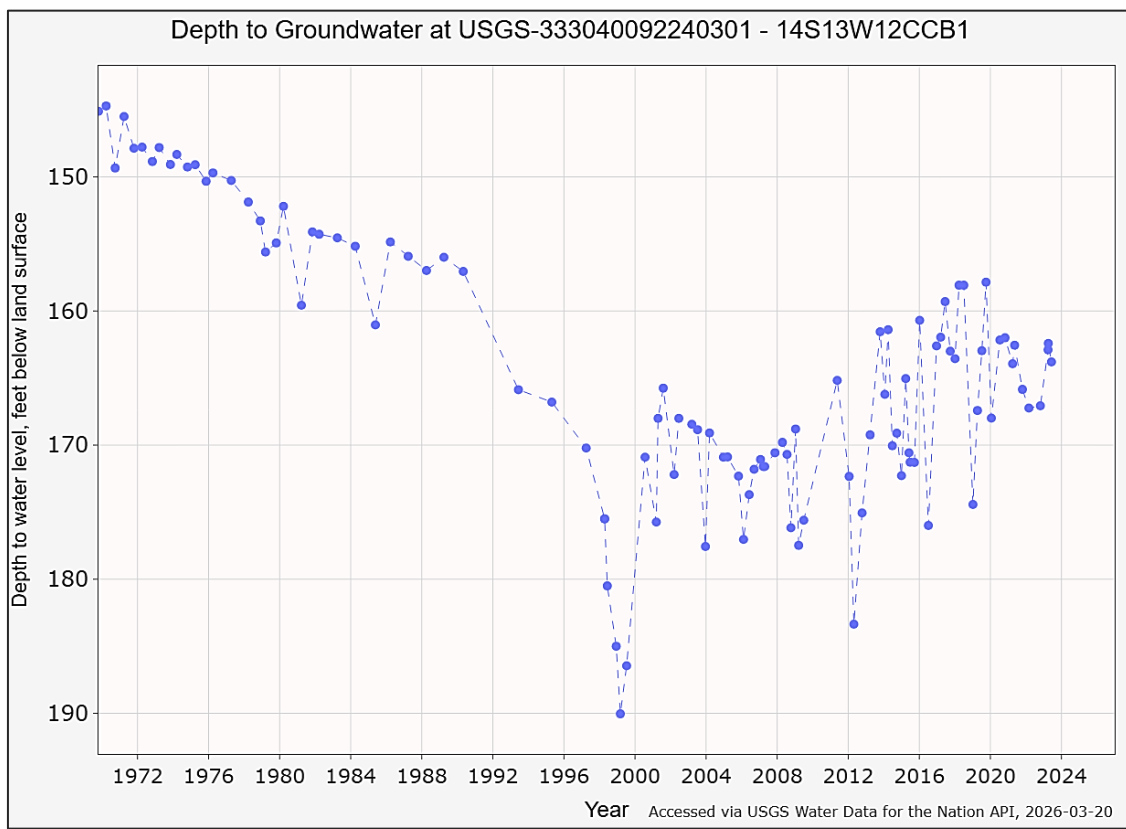
G. Bradley County, Well 13S09W06ACA1



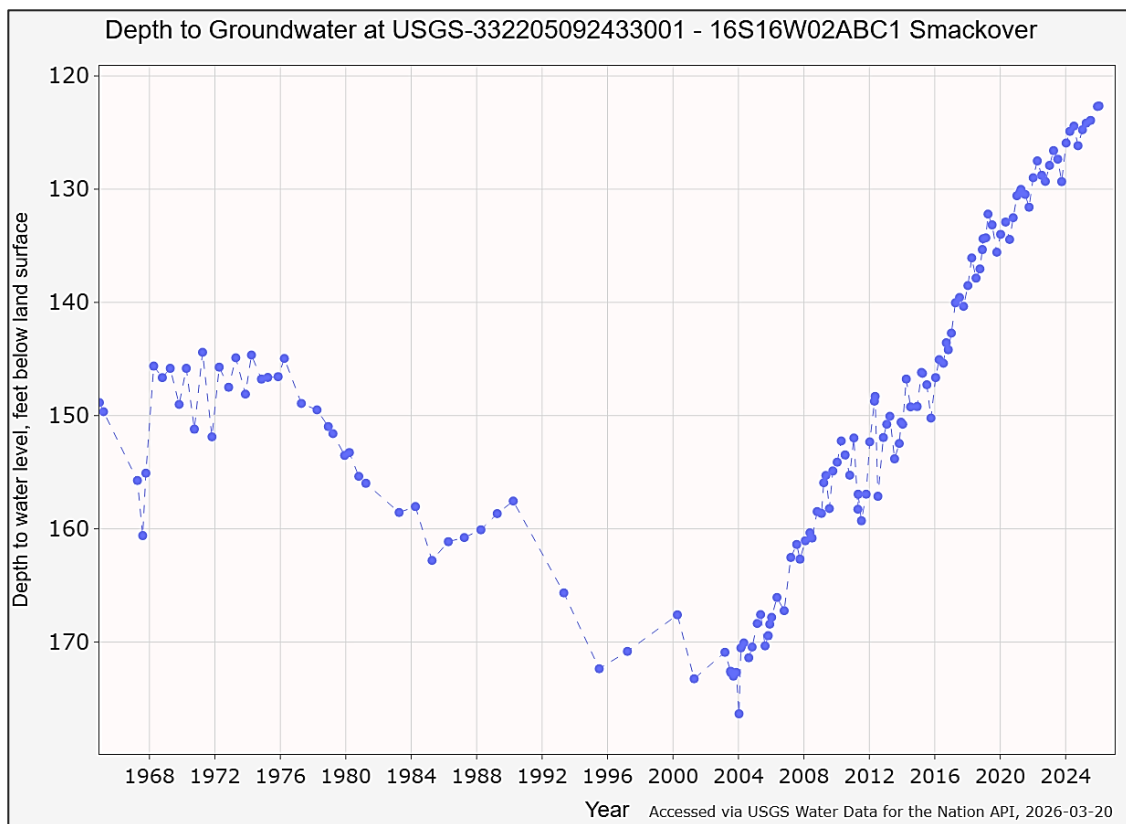
H. Bradley County, Well 15S11W31DDD1



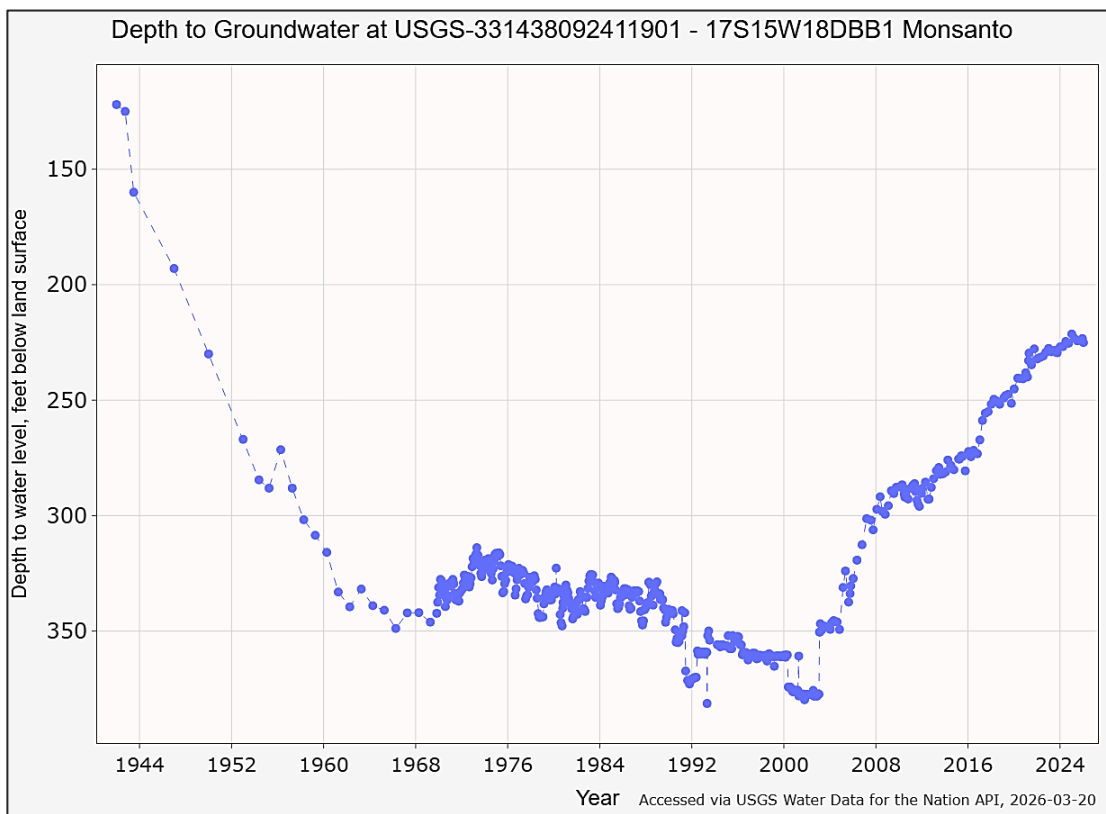
I. Calhoun County, Well 13S12W31DAA1



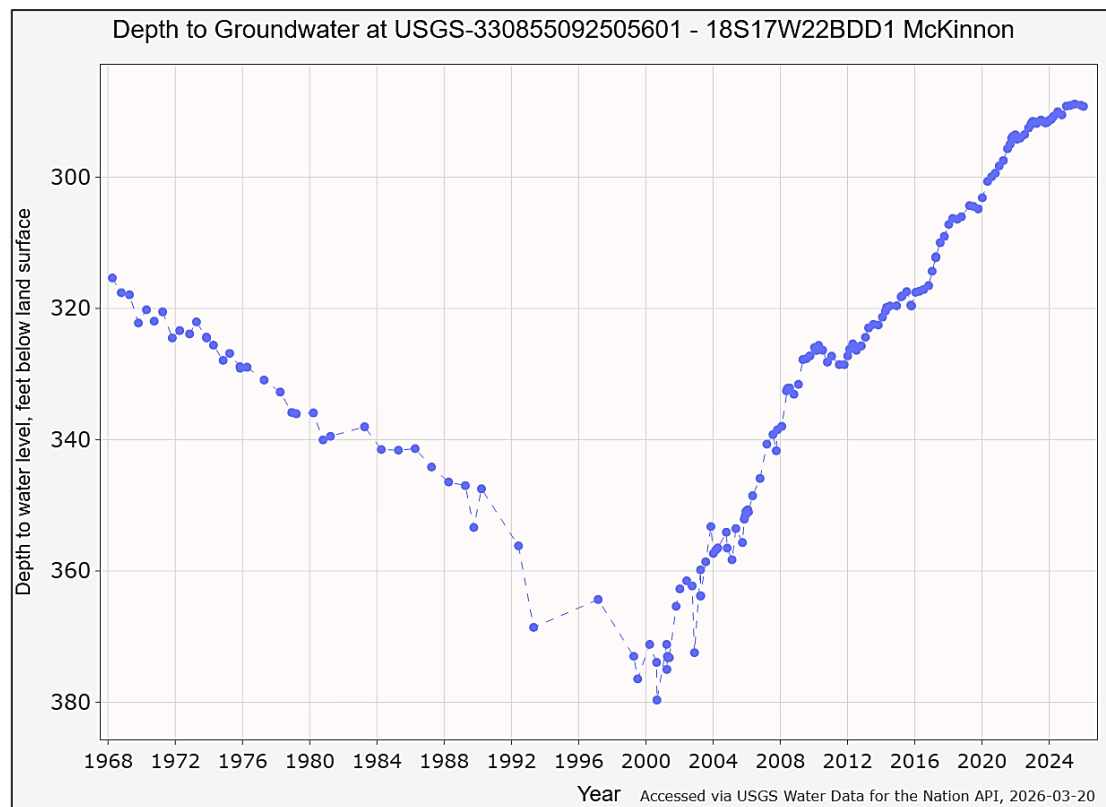
J. Calhoun County, Well 14S13W12CCB1



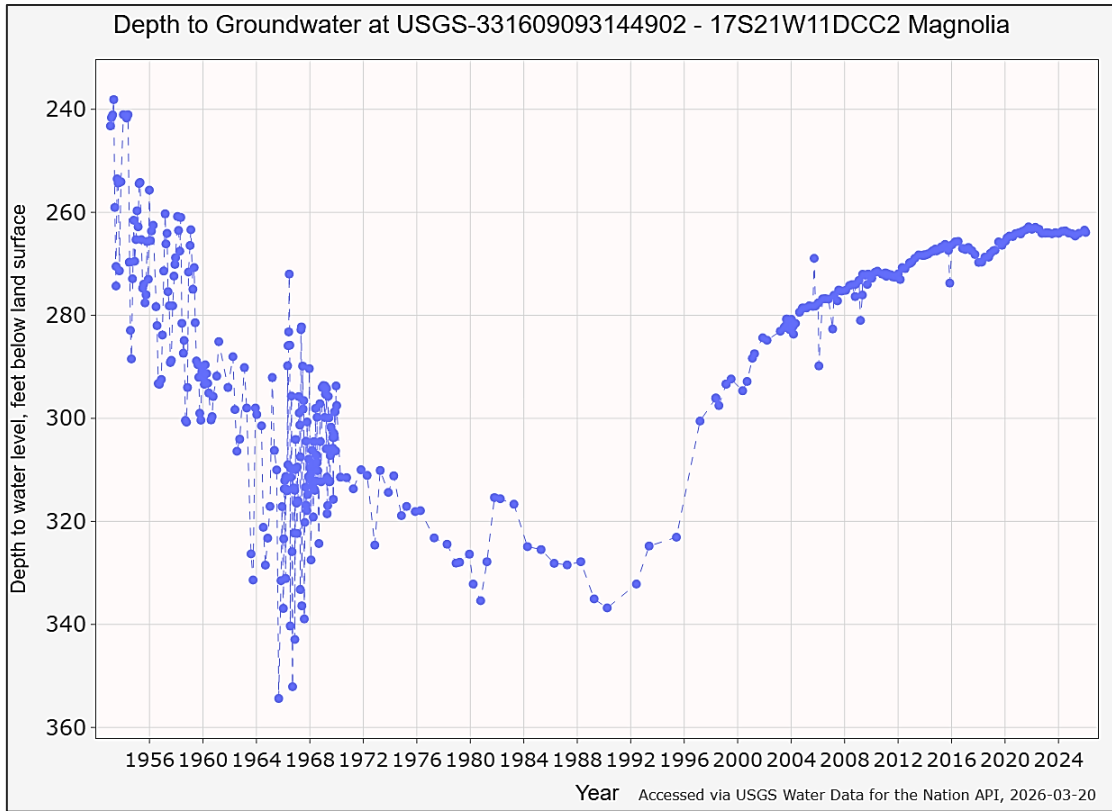
K. Union County, Well 16S16W02ABC1



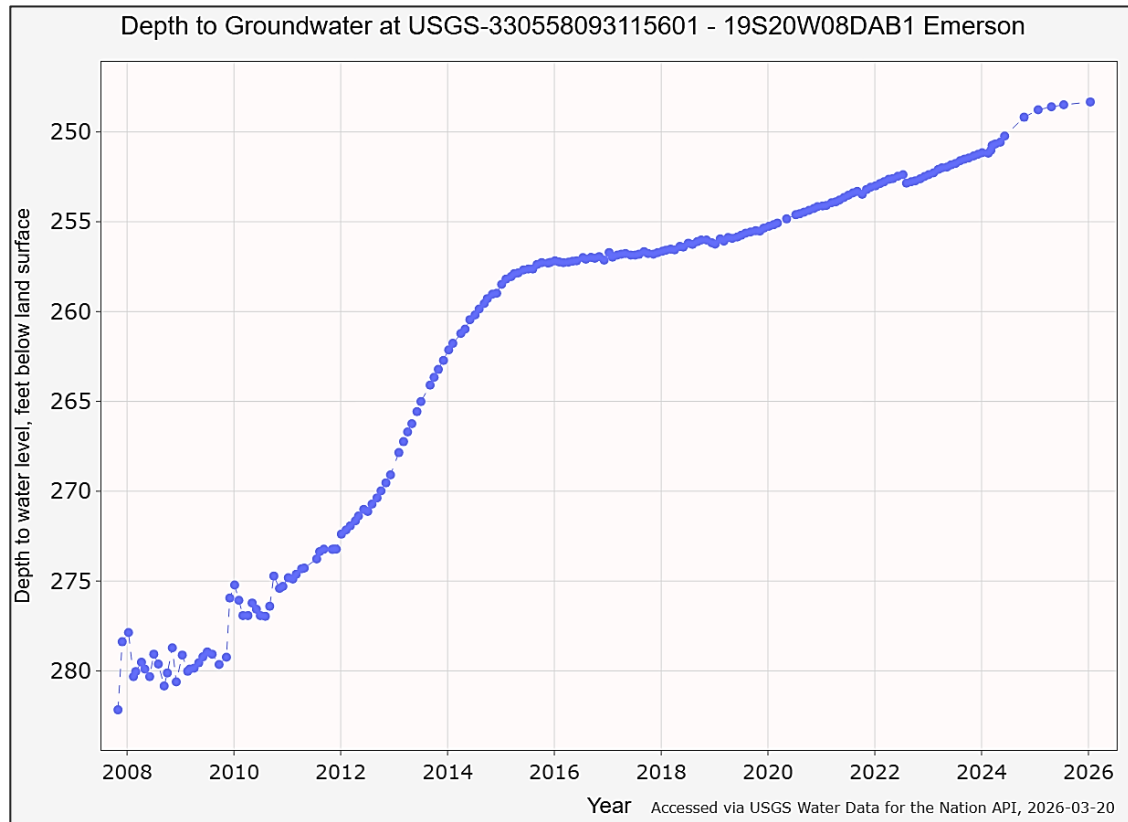
L. Union County, Well 17S15W18DBB1



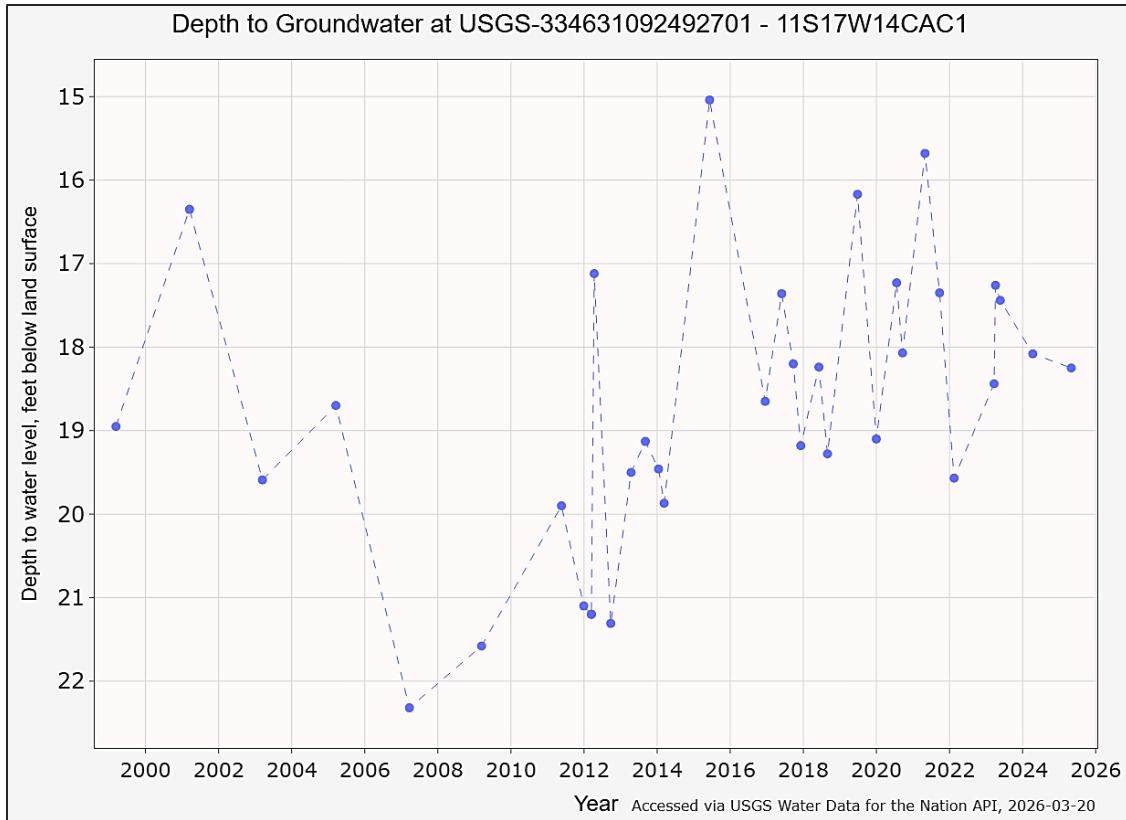
M. Union County, Well 18S17W22BDD1



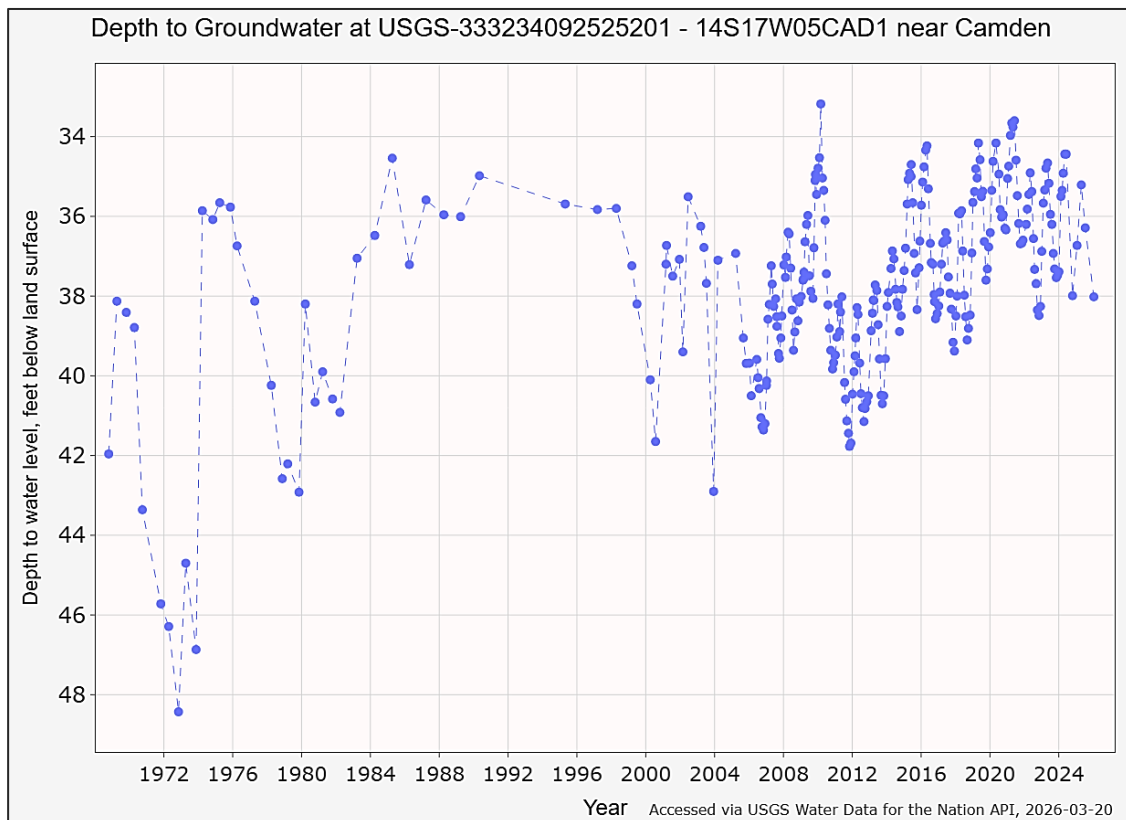
N. Columbia County, Well 17S21W11DCC2



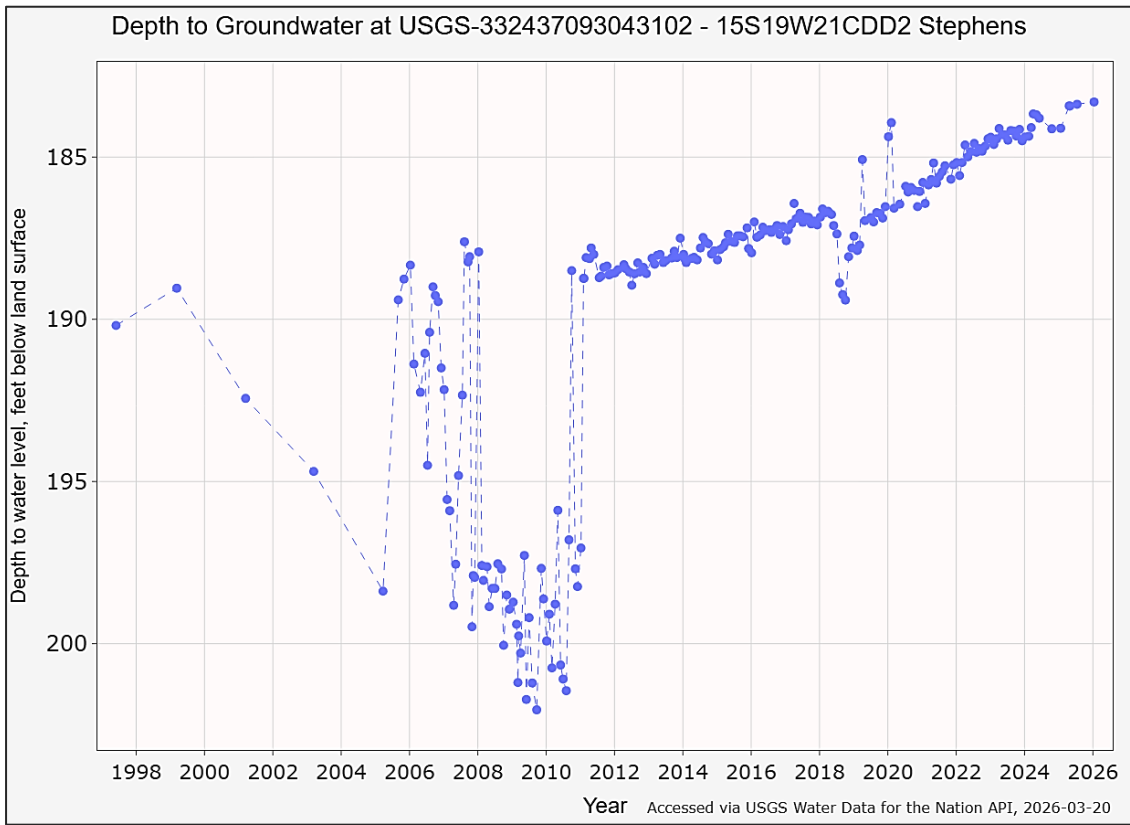
O. Columbia County, Well 19S20W08DAB1



P. Ouachita County, Well 11S17W14CAC1ed



Q. Ouachita County, Well 14S17W05CAD1



R. Ouachita County, Well 15S19W21CDD2

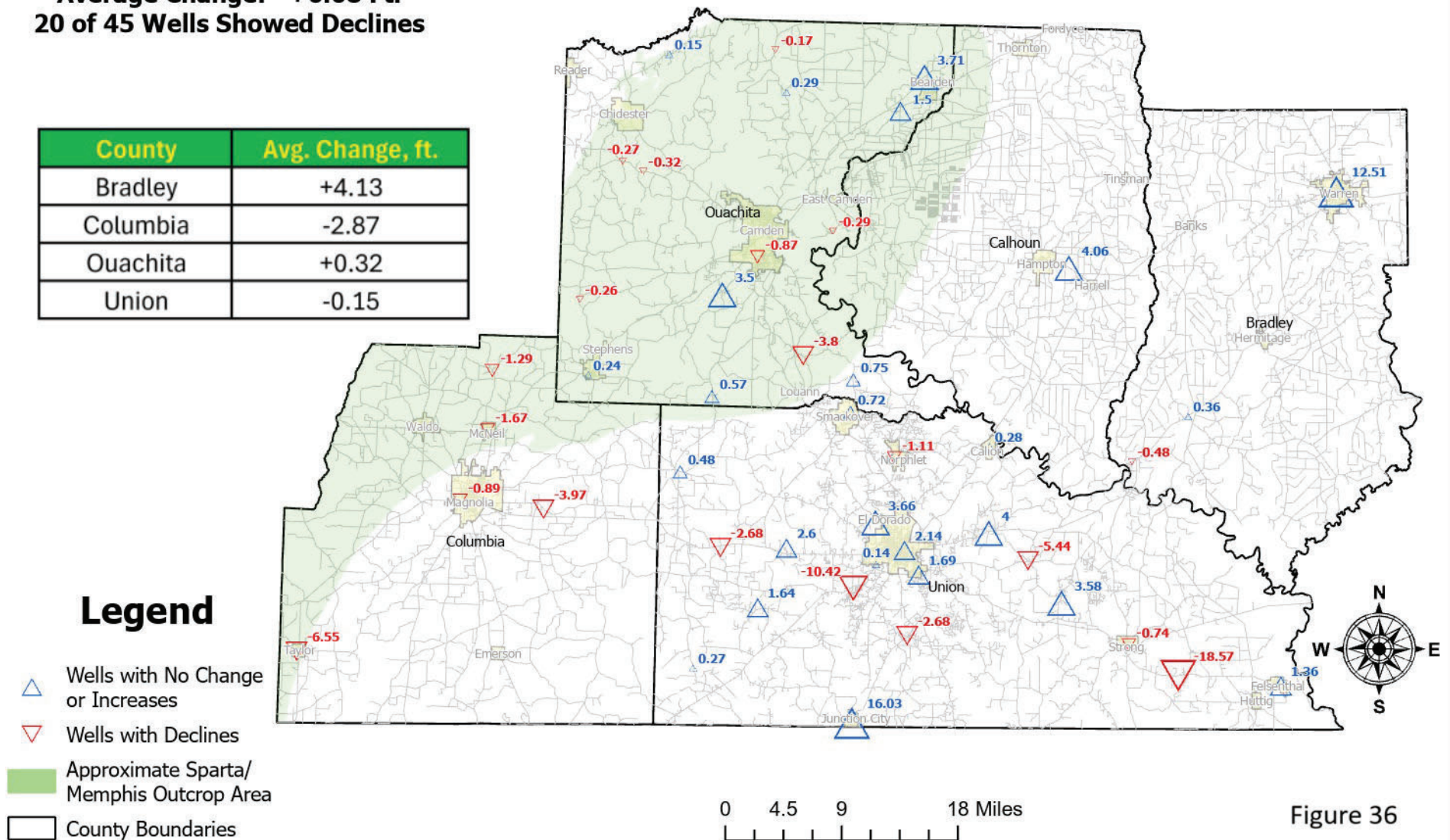
Sparta Aquifer 2024-2025 Water Level Change (South Arkansas)



South Arkansas Study Area
1 Year Change:

Average Change: +0.08 Ft.
20 of 45 Wells Showed Declines

County	Avg. Change, ft.
Bradley	+4.13
Columbia	-2.87
Ouachita	+0.32
Union	-0.15



Sparta Aquifer 2020-2025 Water Level Change (South Arkansas)



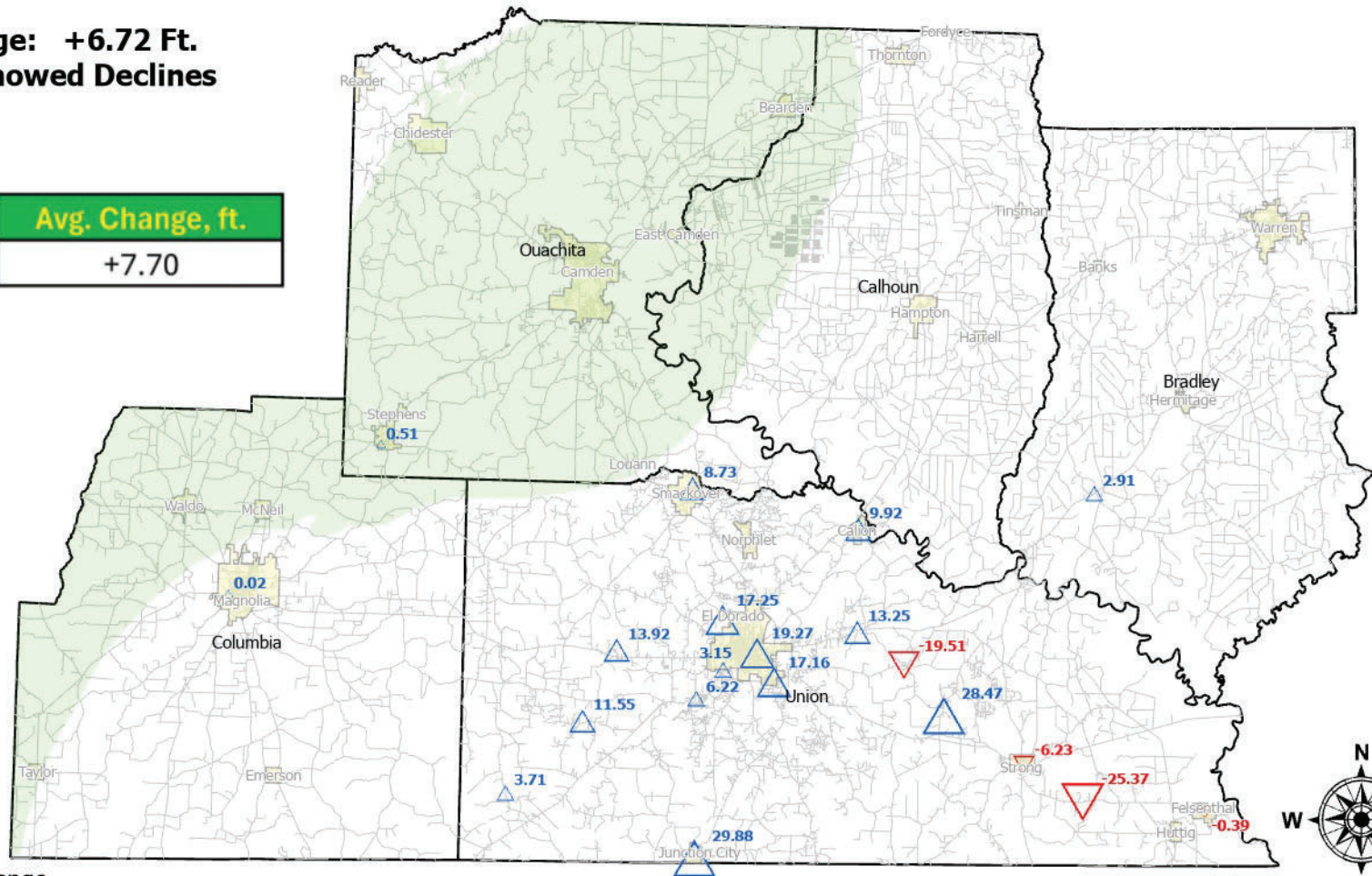
South Arkansas Study Area
5 Year Change:

Average Change: +6.72 Ft.
4 of 20 Wells Showed Declines

County	Avg. Change, ft.
Union	+7.70

Legend

- Wells with No Change or Increases
- Wells with Declines
- Approximate Sparta/Memphis Outcrop Area
- County Boundaries



0 4.5 9 18 Miles

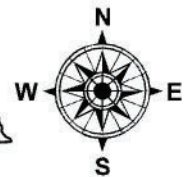


Figure 37

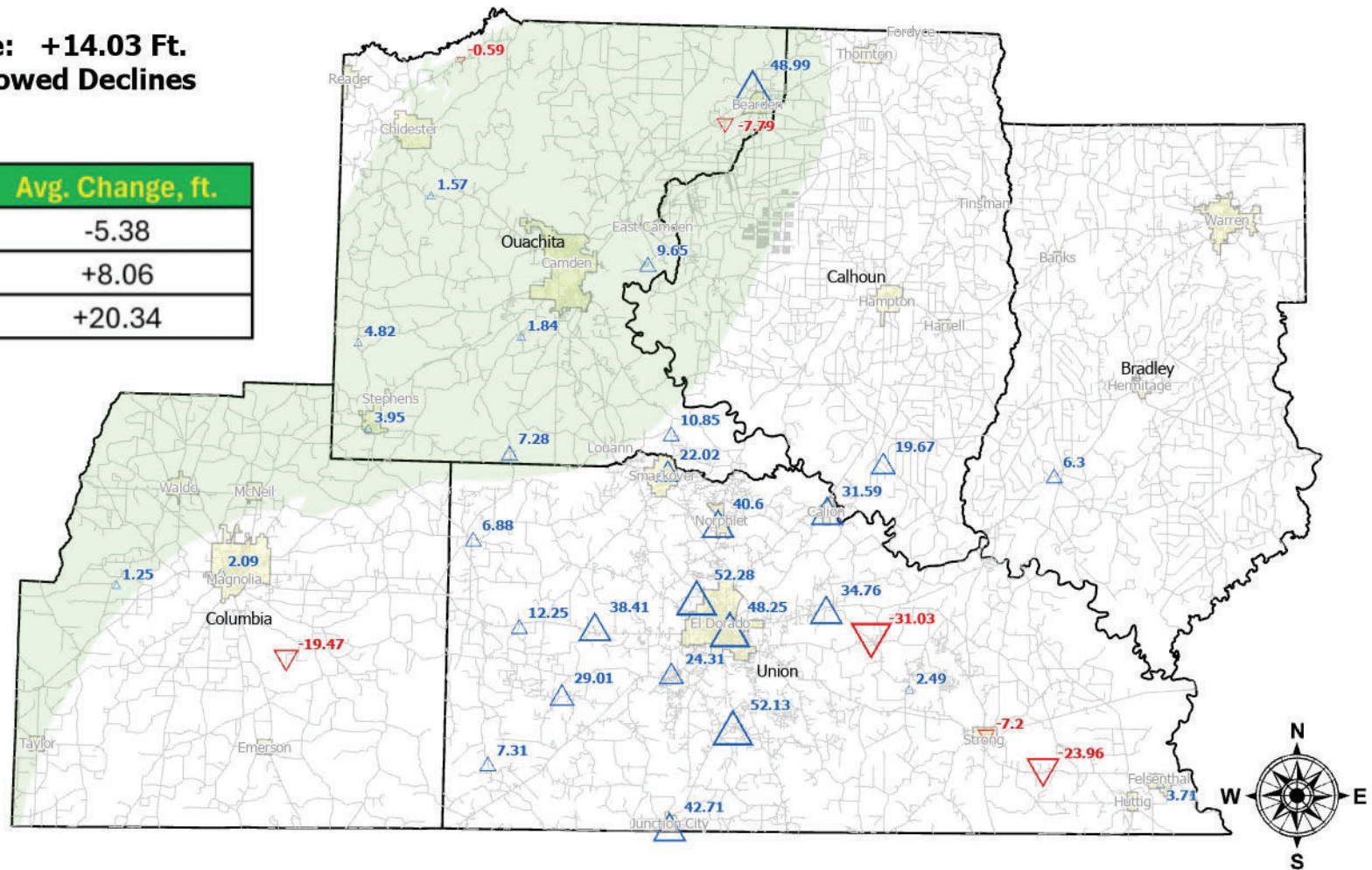
Sparta Aquifer 2015-2025 Water Level Change (South Arkansas)



**South Arkansas Study Area
10 Year Change:**

**Average Change: +14.03 Ft.
6 of 34 Wells Showed Declines**

County	Avg. Change, ft.
Columbia	-5.38
Ouachita	+8.06
Union	+20.34



- △ Increases
- ▽ Decreases
- Approximate Sparta Outcrop Area
- South Arkansas Area

0 4.5 9 18 Miles

Figure 38

Ozark Aquifer

In addition to the Alluvial and Sparta/Memphis aquifers, the USGS also monitors lesser utilized aquifers throughout the state on a rotational basis. Every third year, the USGS monitors wells in the Cockfield and Wilcox, the Tokio and Nacatoch, and Paleozoic Age aquifers. The 2025 monitoring year was designated for the Ozark aquifer (Paleozoic Age). Static water level measurements were collected from 31 wells across the Ozark aquifer and two additional wells from the Boone Limestone during the 2025 measurement season.

The Ozark aquifer in Arkansas is a complex, locally variable consolidated aquifer composed of dolomites, limestones, sandstones, and shales, which ranges in total thickness from approximately 1,100 feet in Northwest Arkansas to more than 4,000 feet in the west-central part of Arkansas. Most groundwater production originates from secondary porosity, such as from fractures and conduit formed from dissolution within carbonate intervals of the aquifer, and karst features in these carbonate intervals are common and potentially extensive. It is bound below by the St. Francois confining unit, which does not outcrop in the state, and above by the Ozark confining unit (Chattanooga Shale), which is discontinuous and missing entirely where the Ozark aquifer outcrops in the northern and eastern portions of the aquifer's extent (Schrader, 2013).

Highly variable secondary porosity in these carbonate units can result in steep, localized water level declines near areas of heavier pumping when compared to relatively uniform aquifer materials (e.g. the Alluvial aquifer), and the assessment of regional trends therefore is difficult in the absence of dense long-term monitoring networks. Additionally, substantial additional field effort and manual contouring required for the generation of an accurate potentiometric surface (Schrader, 2013) is beyond the scope of this report, which will therefore be limited to depths to water and altitude.

Water Level Trends

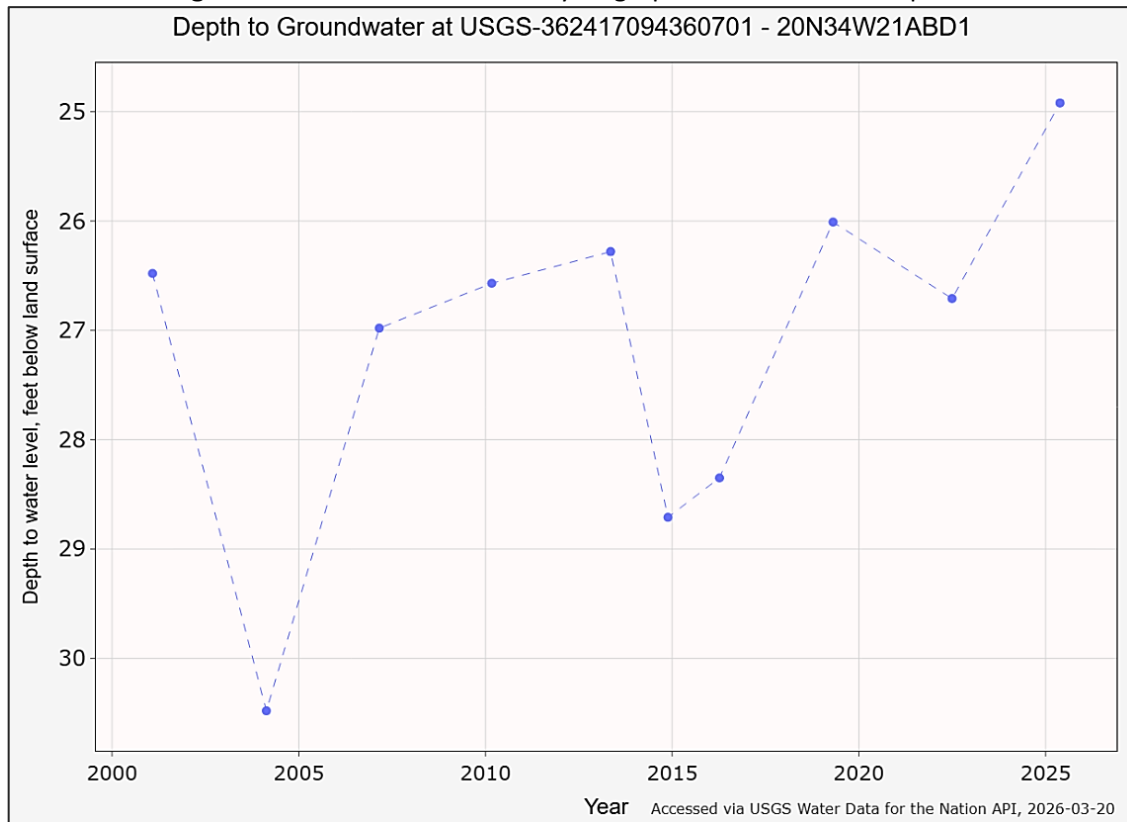
The most distinguishable trends in water levels within the Ozark aquifer accompanied increasing groundwater withdrawals for domestic use associated with rapid development of the Ozark Plateaus region from pre-development through the 1970s. Groundwater withdrawals during this period resulted in drawdown of as much as 300 feet below pre-development levels in some areas (see Figure 39.H, a Carroll County well). The wells displaying identifiable drawdown over this period have largely recovered either partially or totally after nearby areas received access to surface water for municipal sources (e.g. Beaver Lake in Northwest Arkansas).

Some noteworthy exceptions have been found to this trend. For example, well 16N32W09ABD1 in Washington County, approximately two miles west of Interstate 49 in Fayetteville, displayed decreasing water levels through the 2000s but appears to have recovered slightly in the last 15 years. Well 18N19W19BCC1, approximately 10 miles southeast of Harrison in Boone County, displayed 100 feet of drawdown from the beginning of measurement in 1967 to 1986, and has shown approximately 20 feet of drawdown from 1990 to the present without recovery. Various other wells, such as well 19N15W20ACC1 in Flippin (Marion County) displayed drawdown and

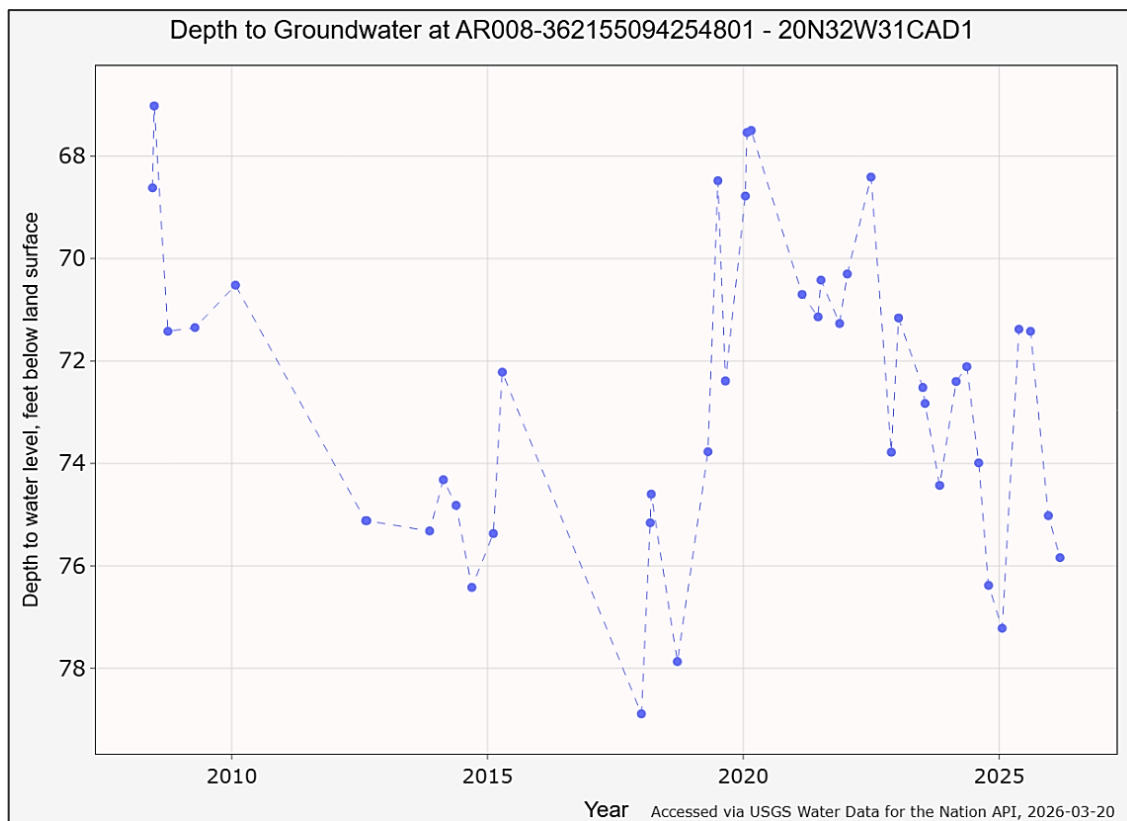
subsequent recovery between the 1990s and the present. In all cases, the long-term relationships between water level changes in the Ozark aquifer and population growth, climate, industry, and agriculture are complex and not fully understood, and additional monitoring will be necessary to assess long-term changes as the area continues to experience rapid development.

Selected water level hydrographs from the Ozark aquifer are presented in Figure 39.

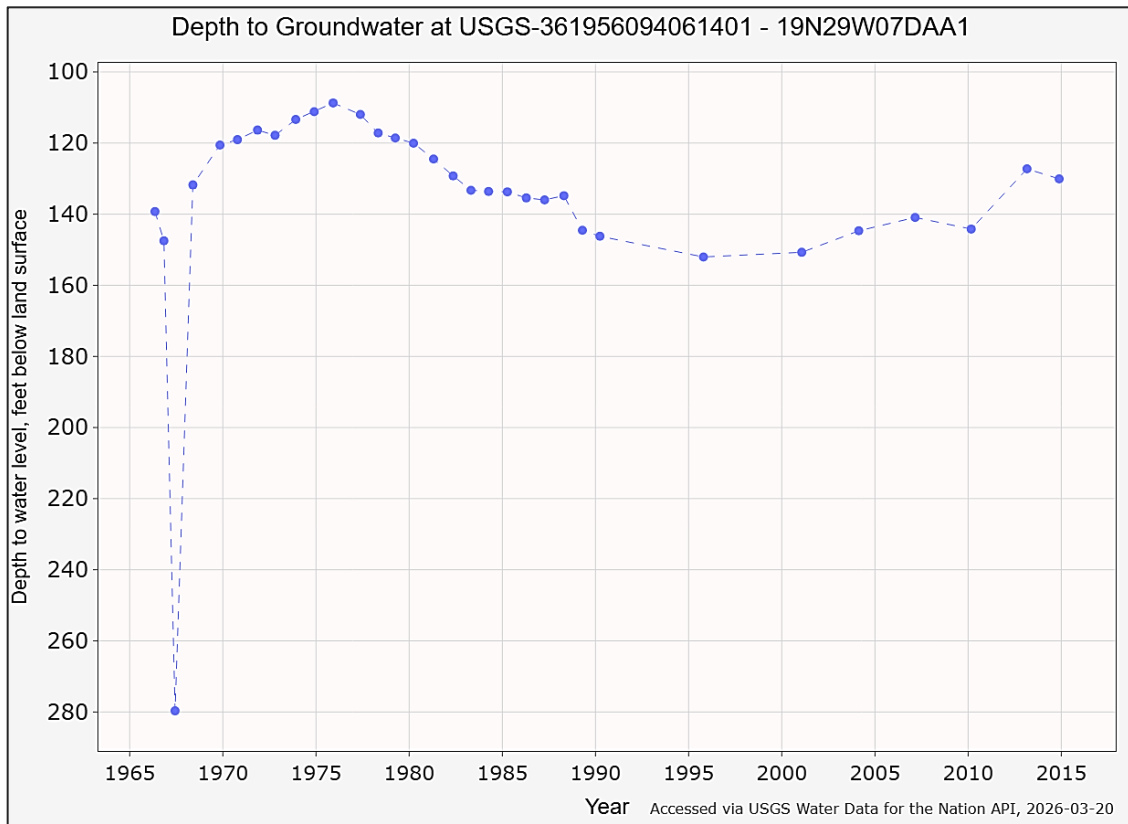
Figure 39: Selected water level hydrographs from the Ozark aquifer



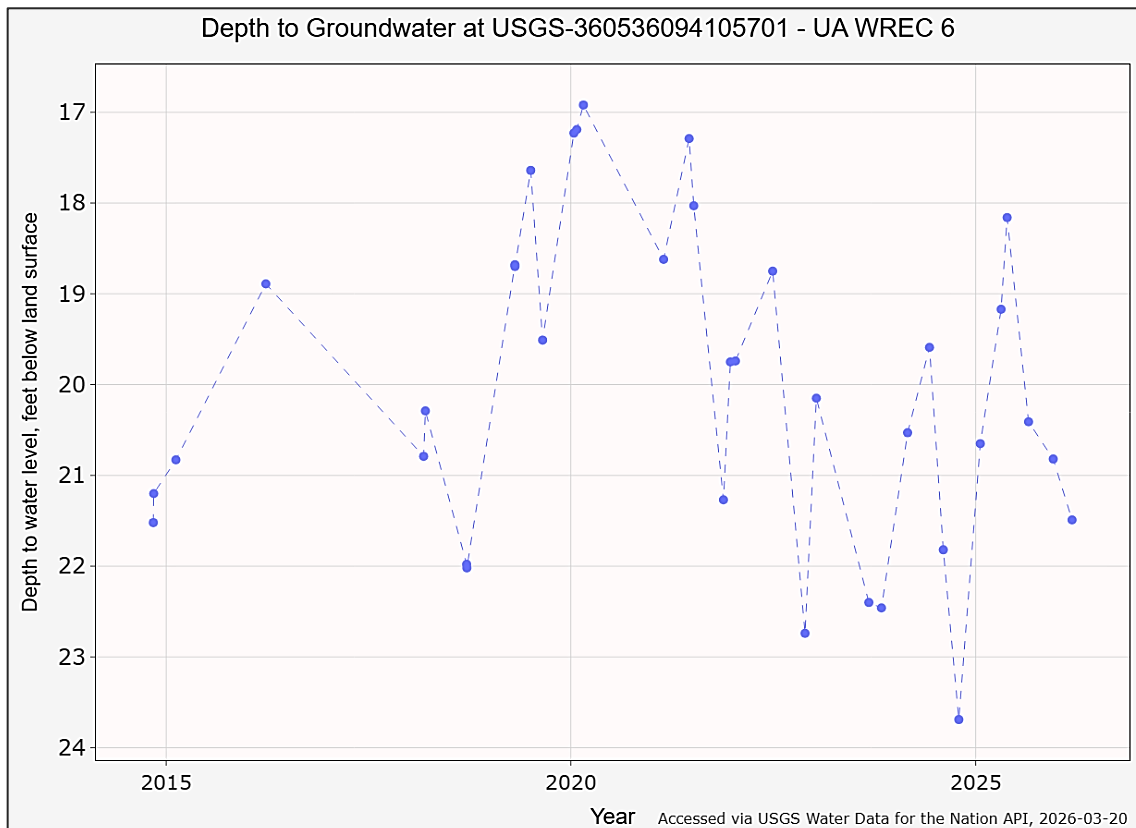
A. Benton County, Well 20N34W21ABD1, Everton Formation



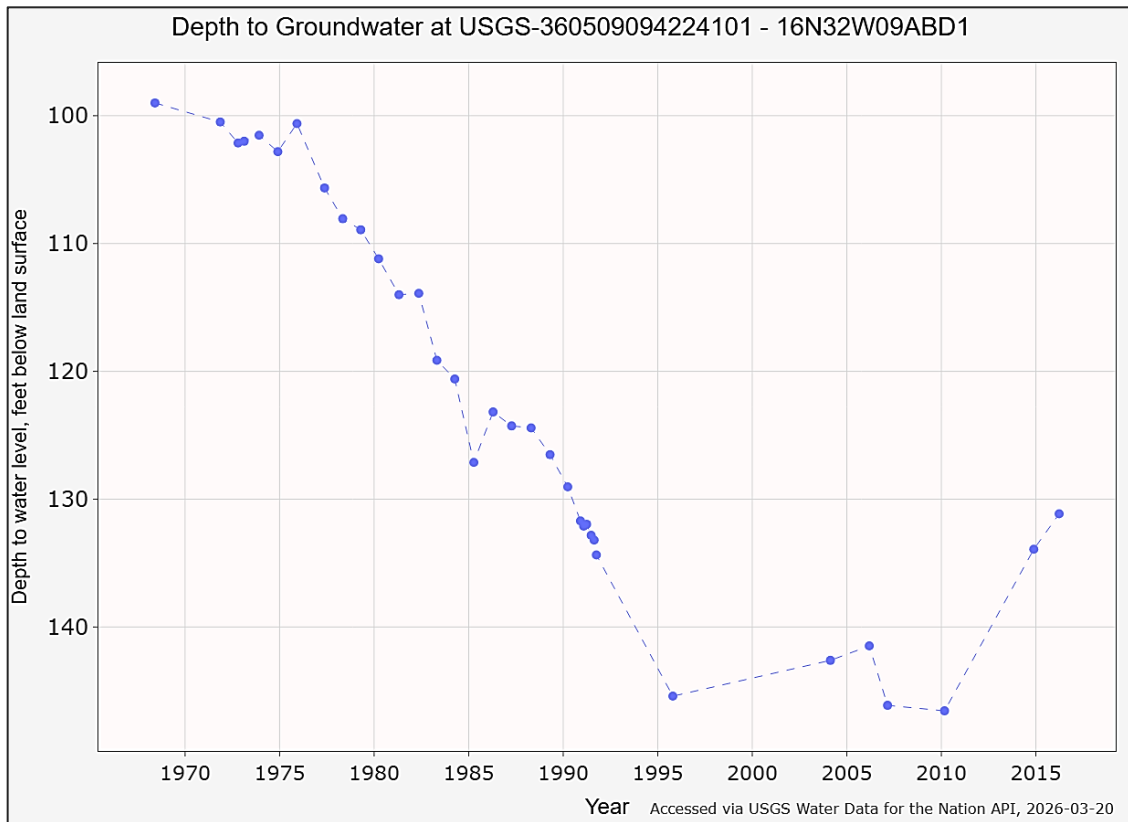
B. Benton County, Well 20N32W31CAD1, Boone Limestone (Springfield Plateau Aquifer)



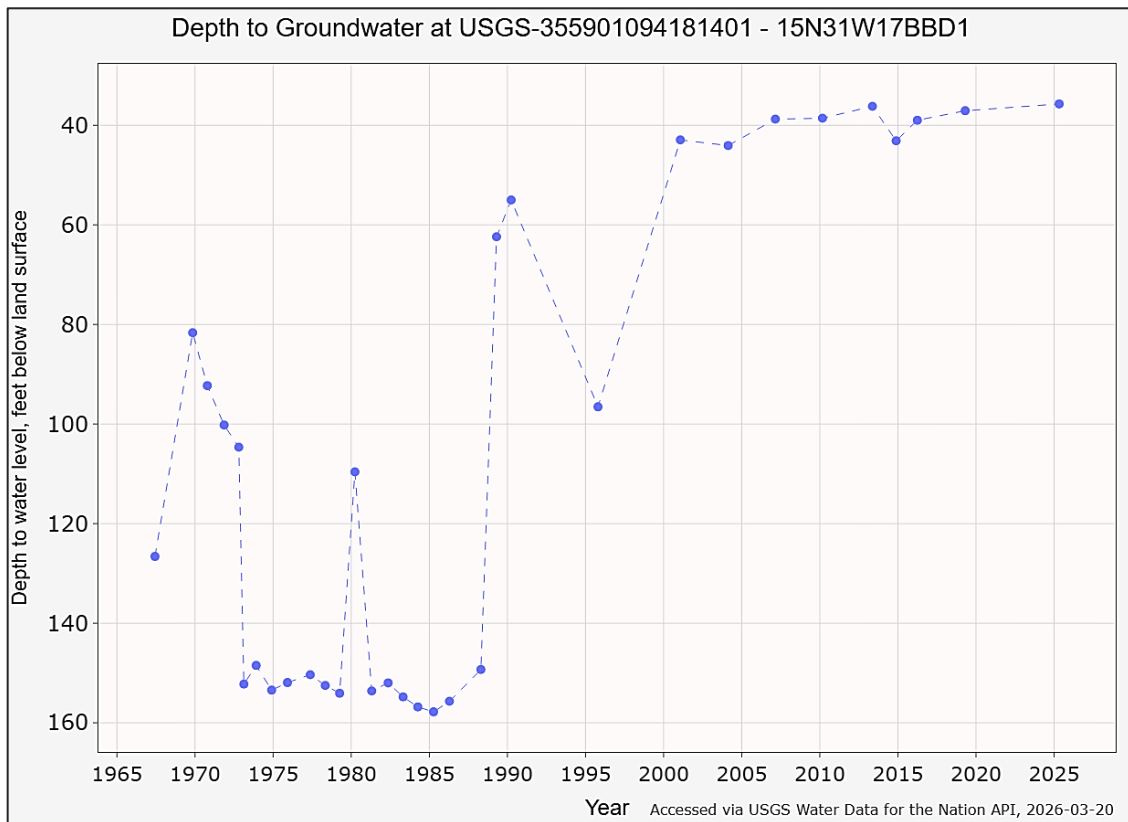
C. Benton County, Well 19N29W07DAA1, Gunter Sandstone



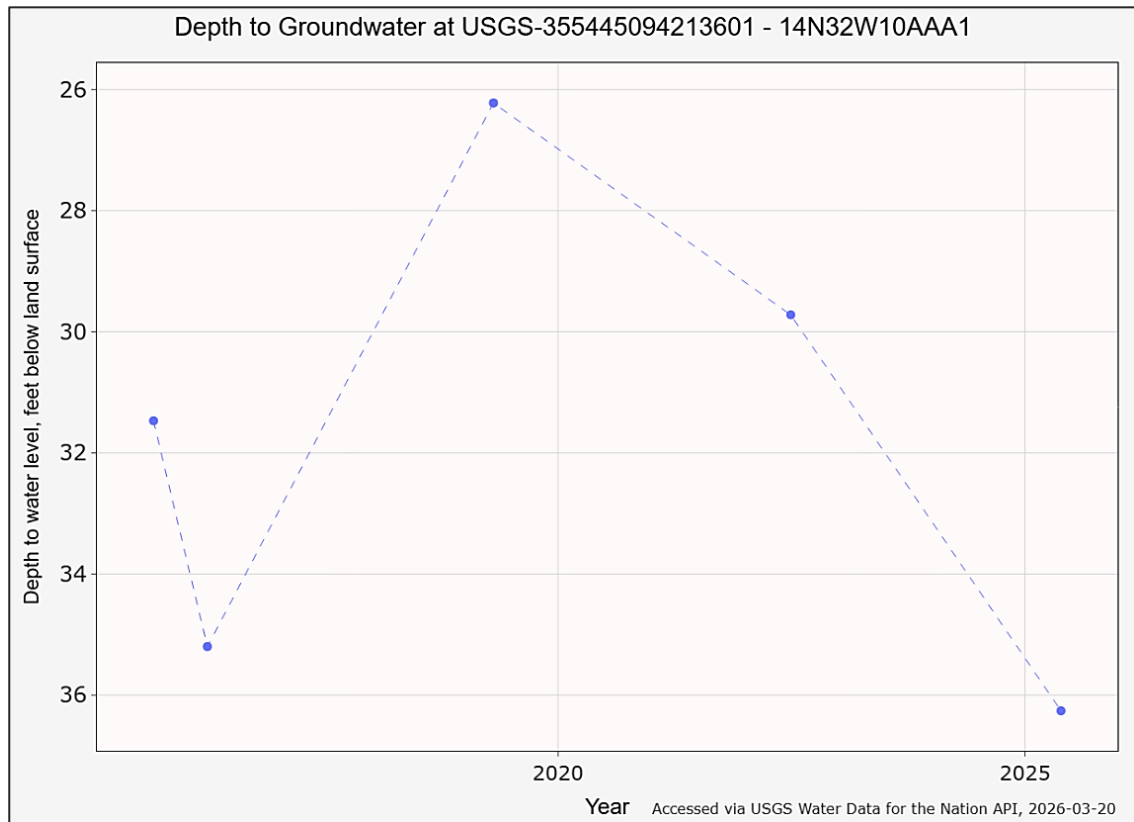
D. Washington County, Well UA WREC 6, Everton Formation



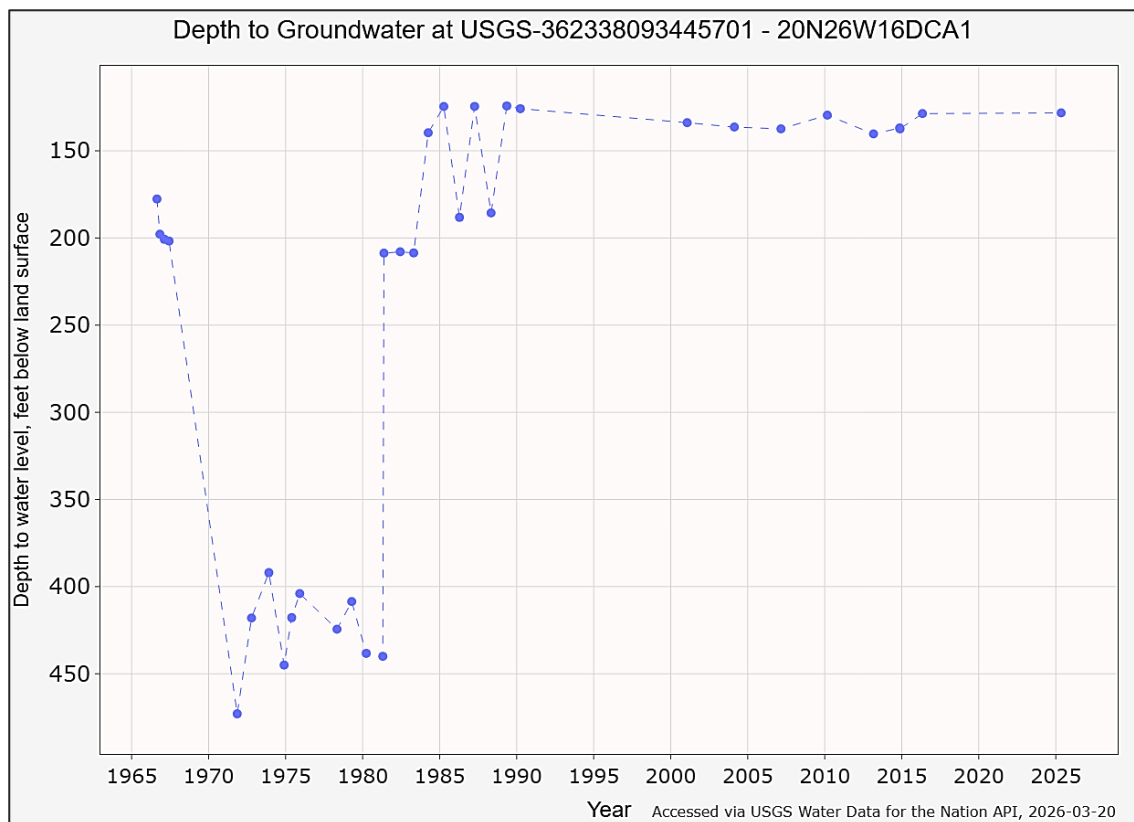
E. Washington County, Well 16N32W09ABD1, Gunter Sandstone



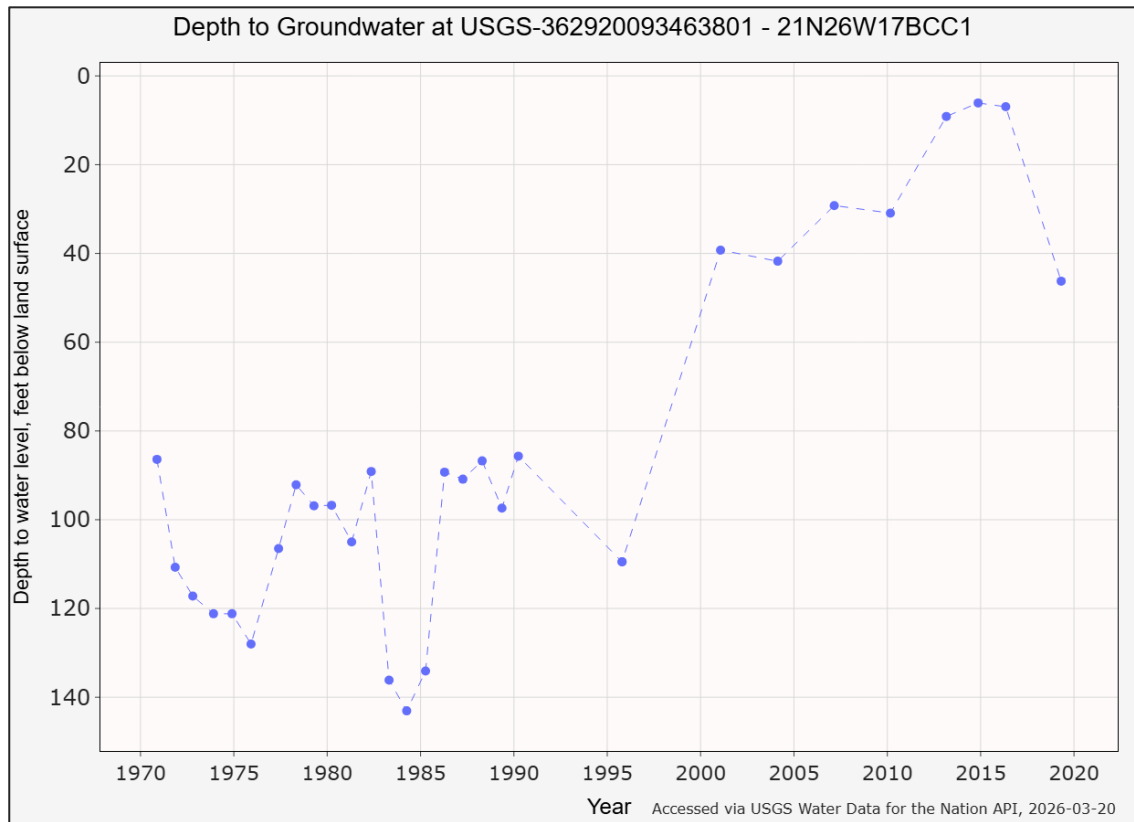
F. Washington County, Well 15N31W17BBD1, Gunter Sandstone



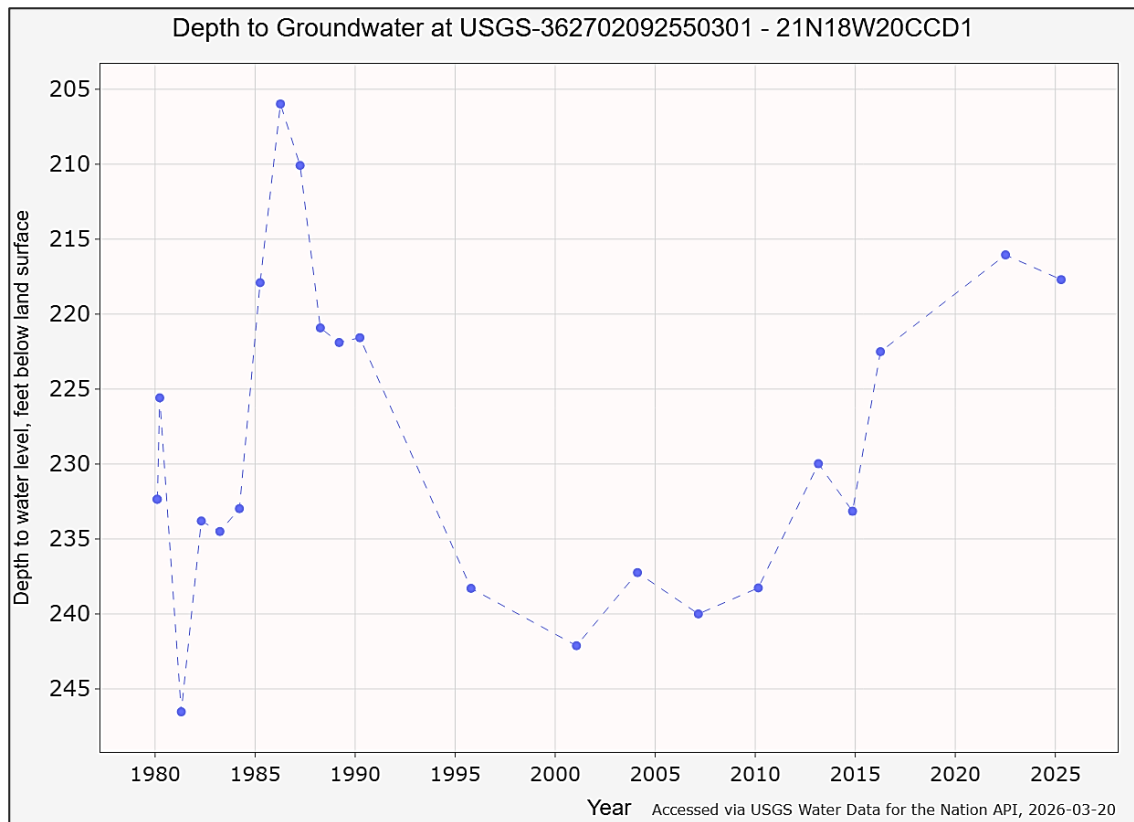
G. Washington County, Well 14N32W10AAA1, Boone Limestone (Springfield Plateau aquifer)



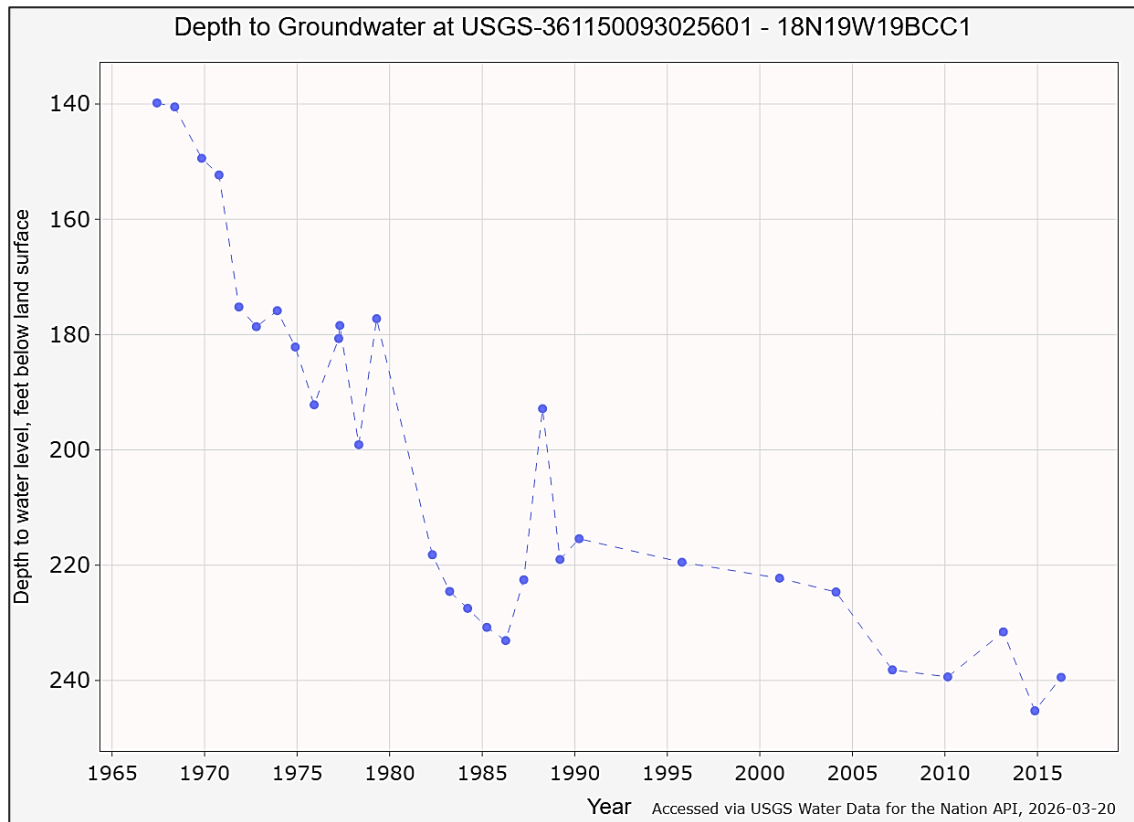
H. Carroll County, Well 20N26W16DCA1, Gunter Sandstone



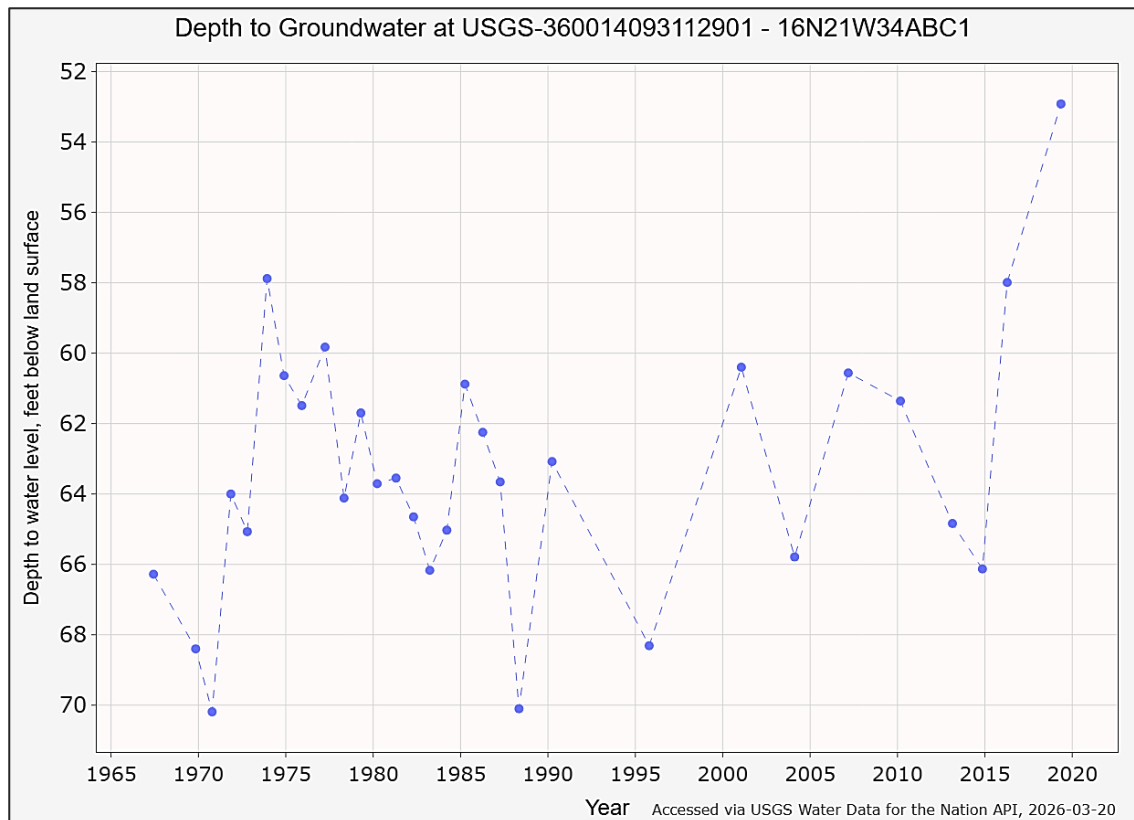
I. Carroll County, Well 21N26W17BCC1, Roubidoux Formation



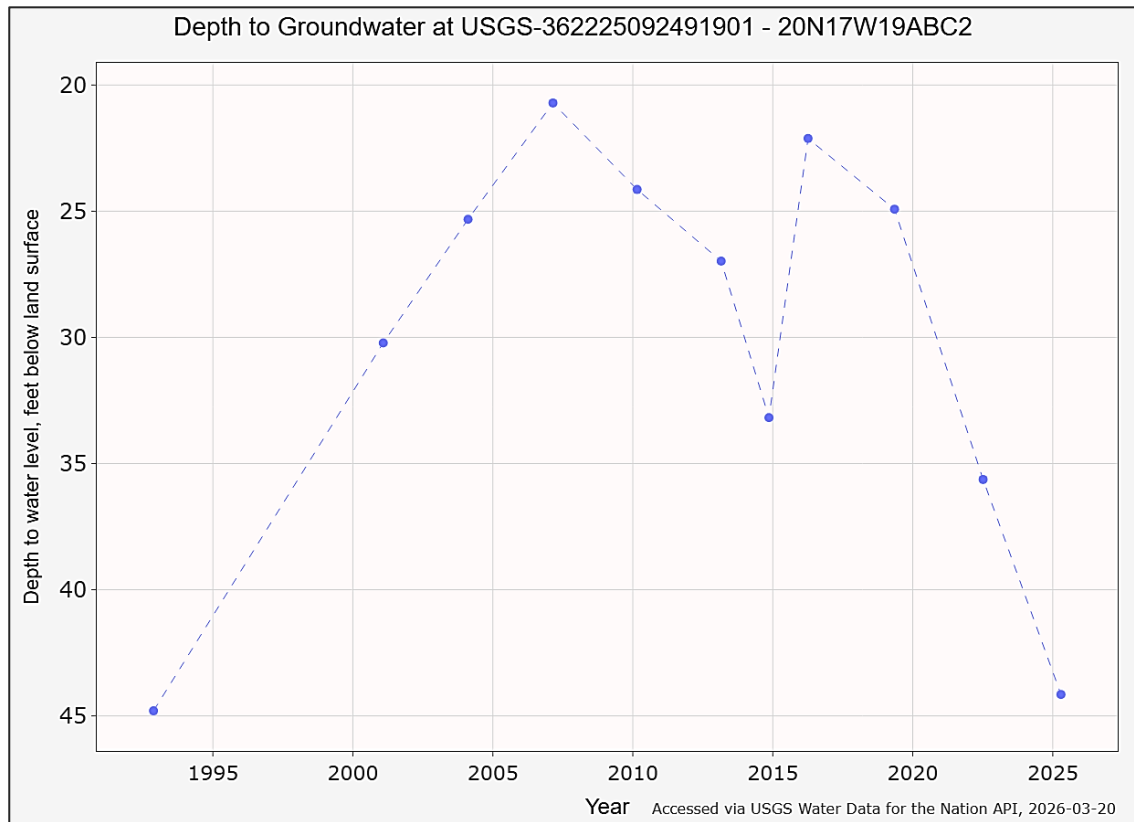
J. Boone County, Well 21N18W20CCD1, Gunter Sandstone



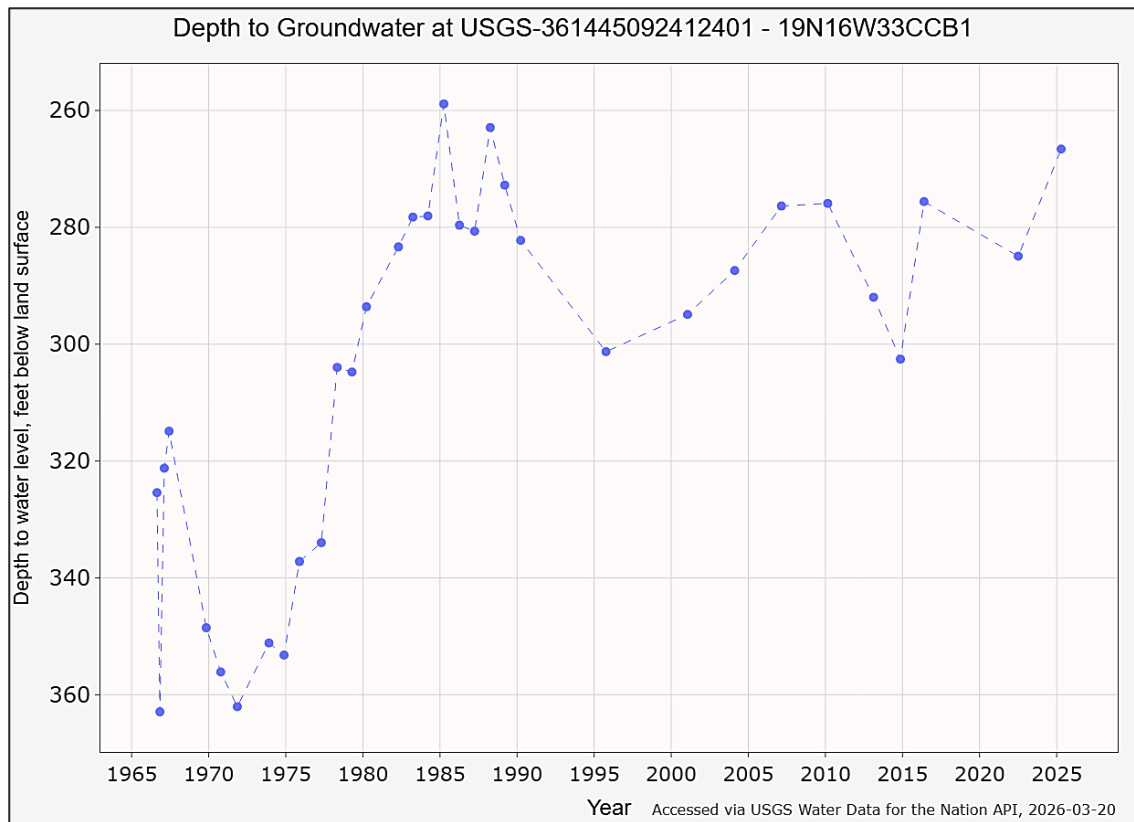
K. Boone County, Well 18N19W19BCC1, Gunter Sandstone



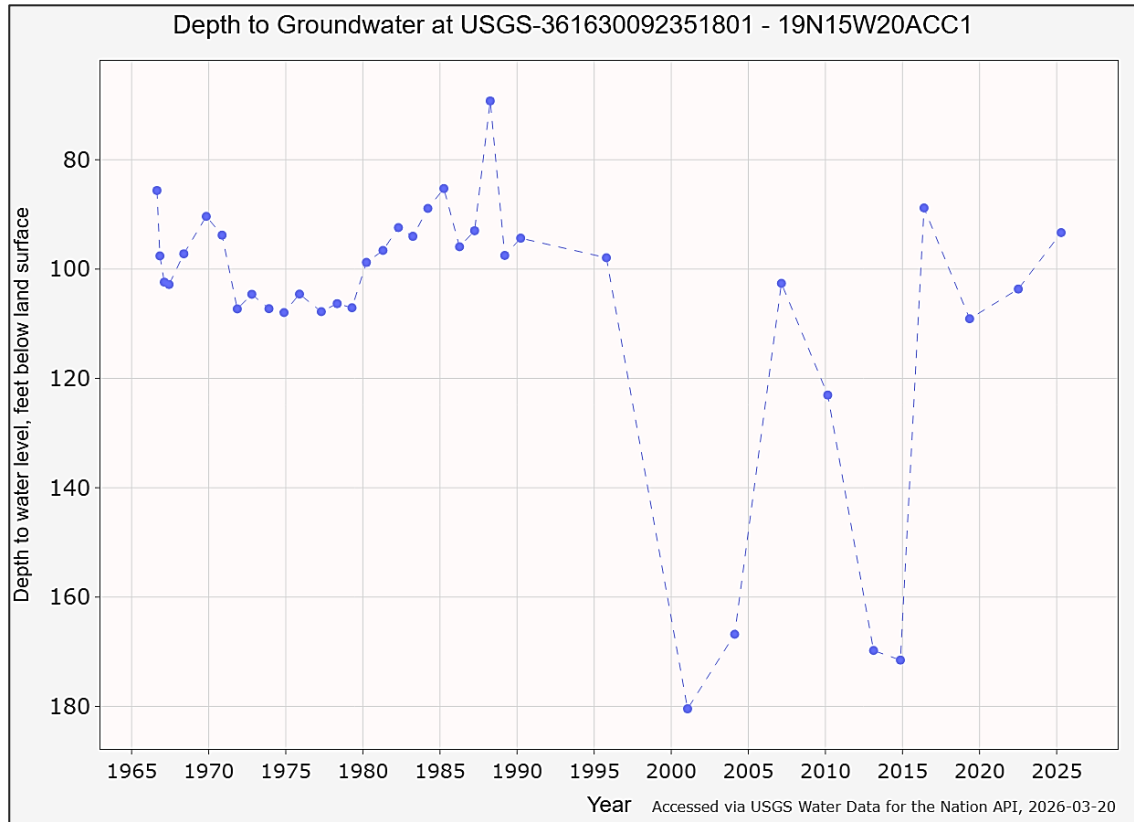
L. Newton County, Well 16N21W34ABC1, Everton Formation



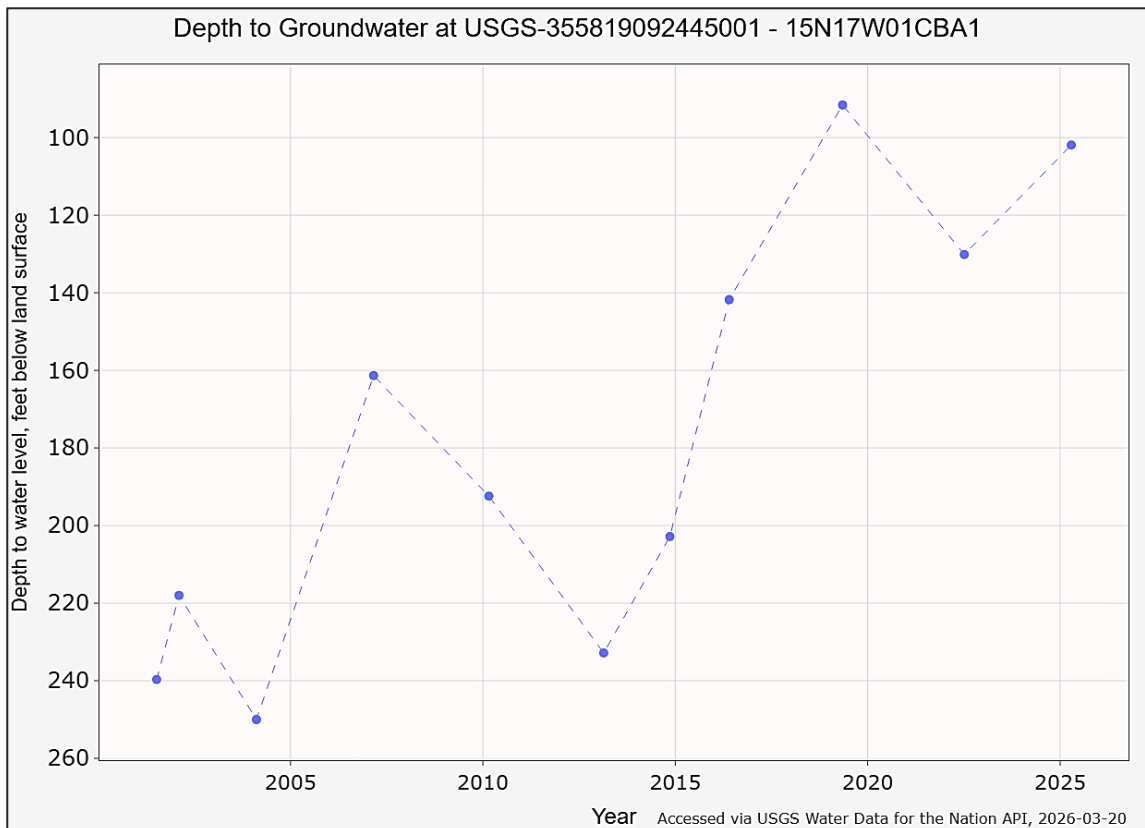
M. Marion County, Well 20N17W19ABC2, Cotter Dolomite



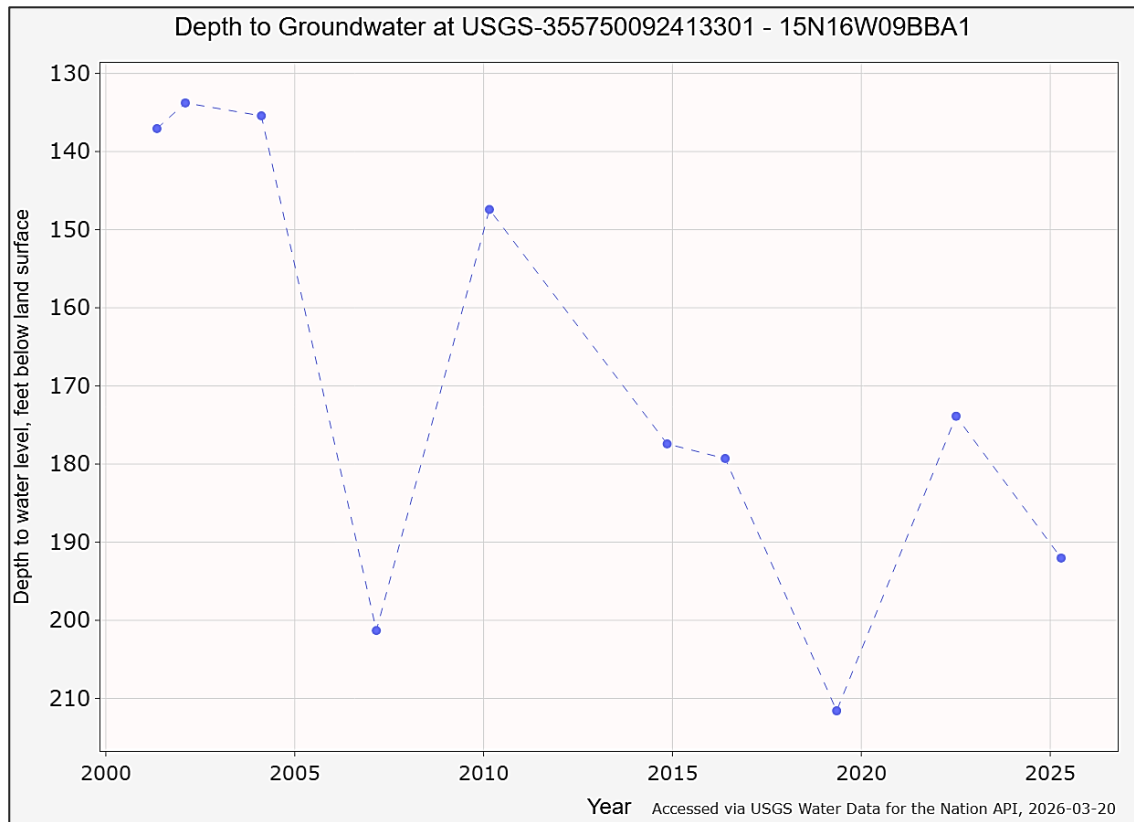
N. Marion County, Well 19N16W33CCB1, Cotter Dolomite



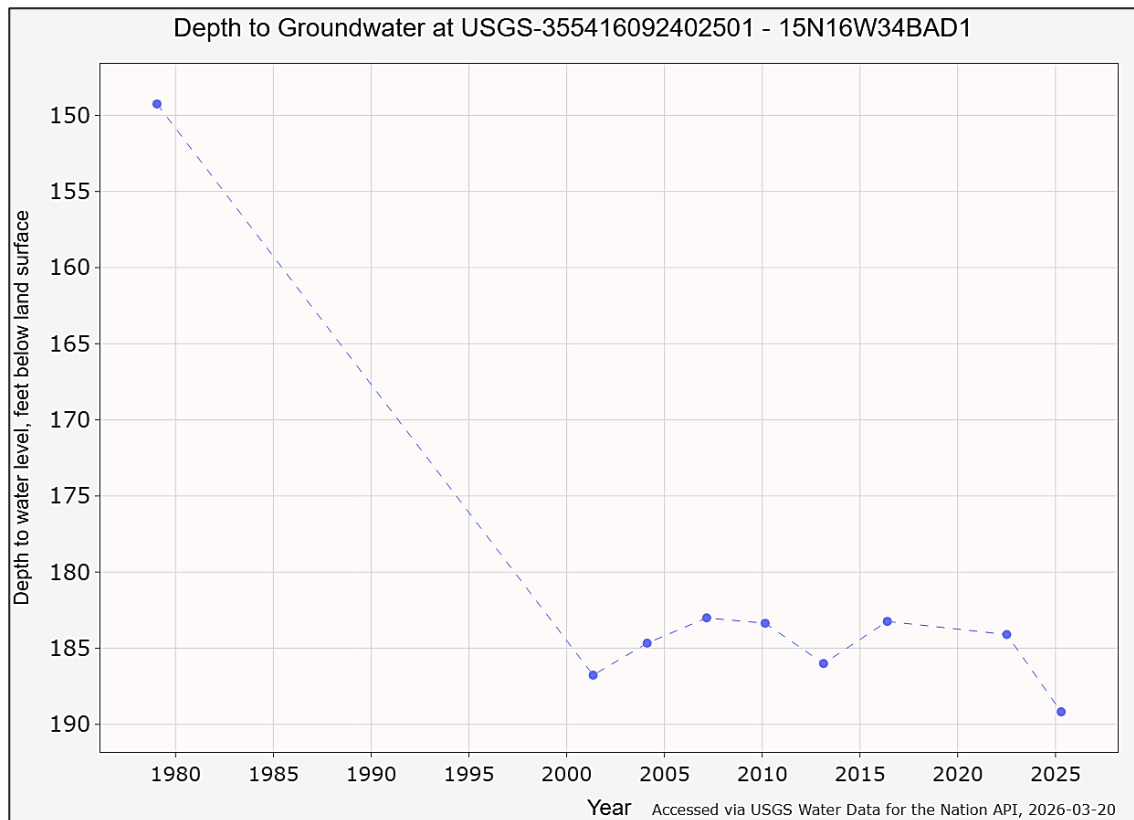
O. Marion County, Well 19N15W20ACC1, Roubidoux Formation



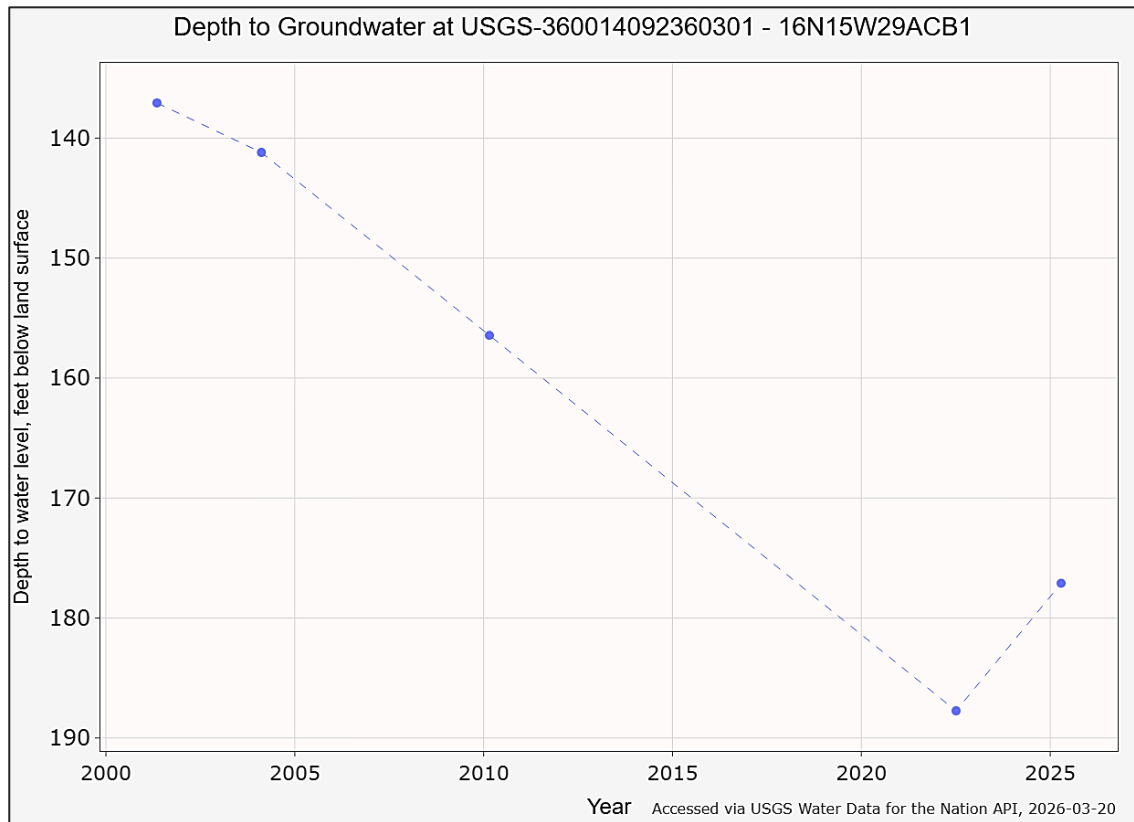
P. Searcy County, Well 15N17W01CBA1, Powell Dolomite



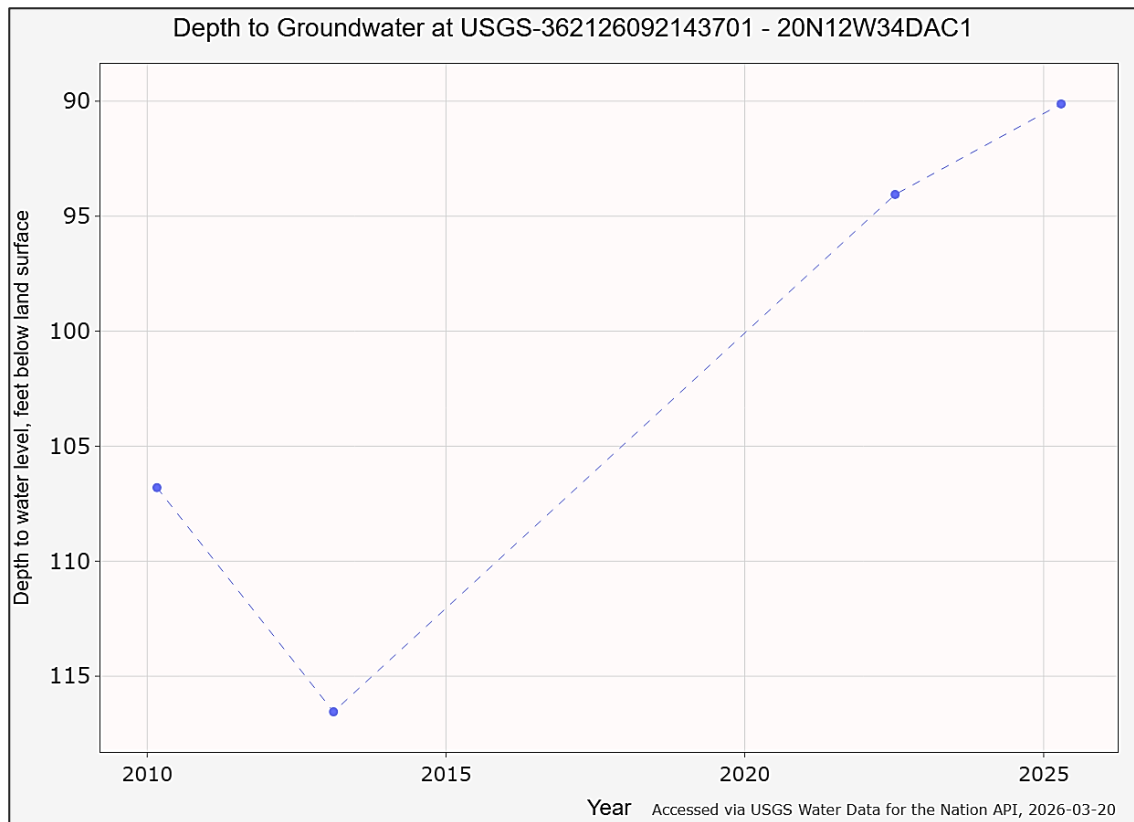
Q. Searcy County, Well 15N16W09BBA1, Powell Dolomite



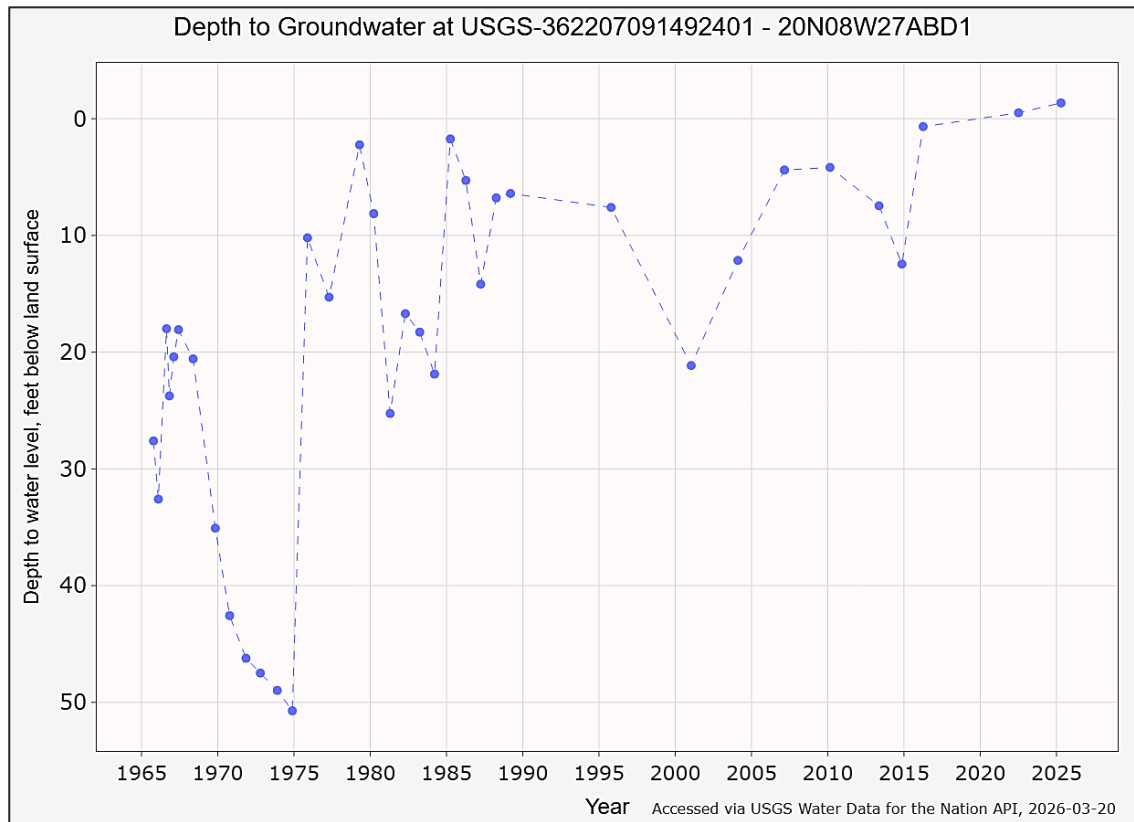
R. Searcy County, Well 15N16W34BAD1, Platin Limestone



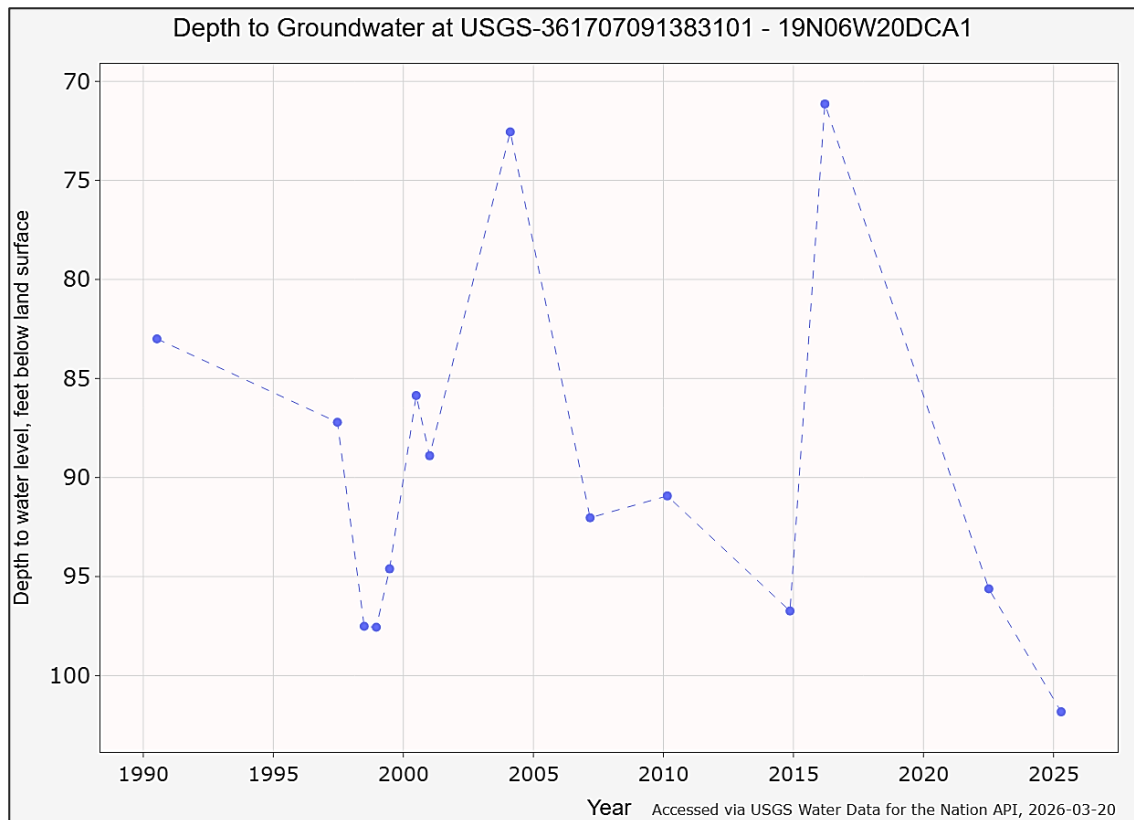
S. Searcy County, Well 16N15W29ACB1, Everton Formation



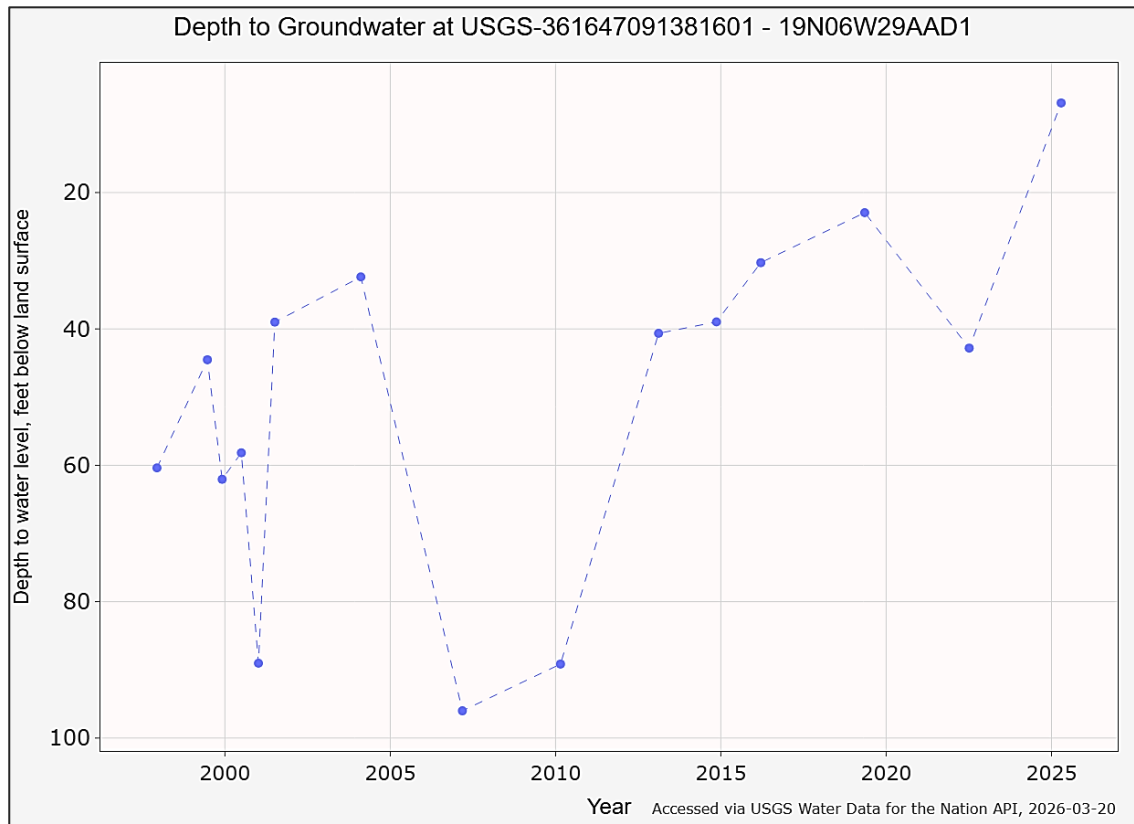
T. Baxter County, Well 20N12W34DAC1, Jefferson City Dolomite



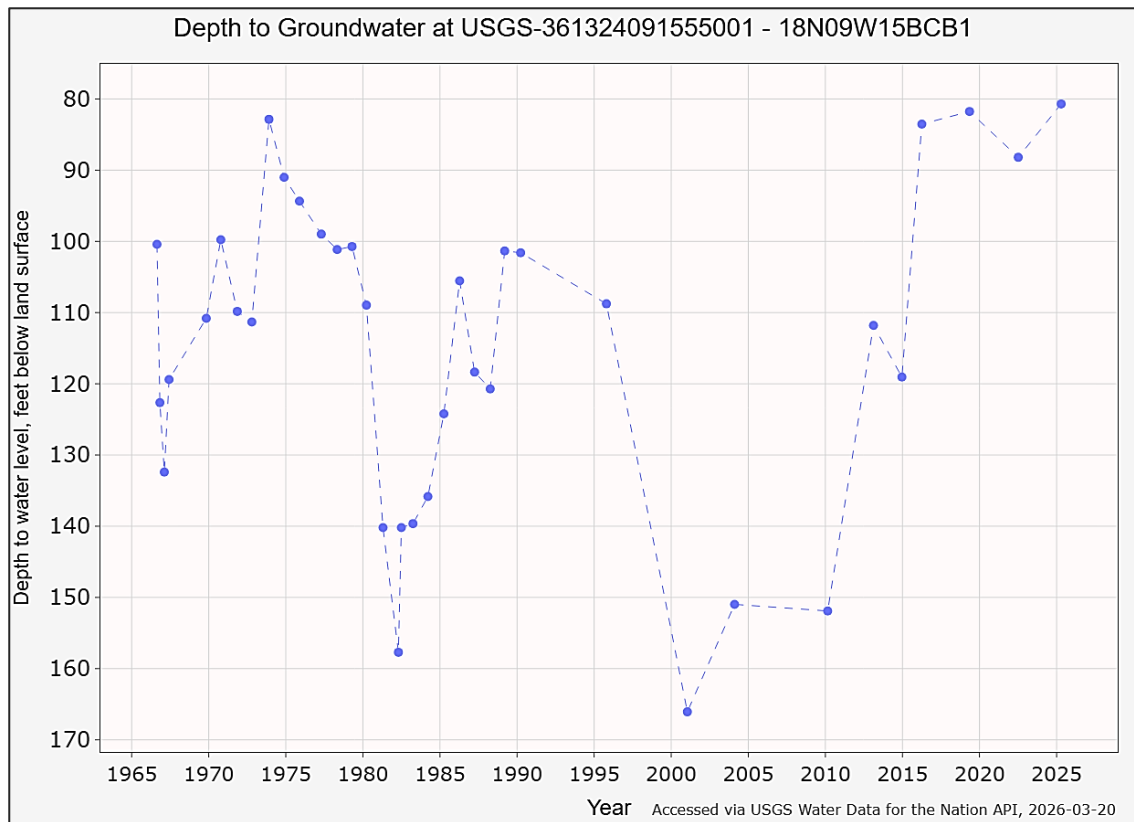
U. Fulton County, Well 20N08W27ABD1, Gunter Sandstone



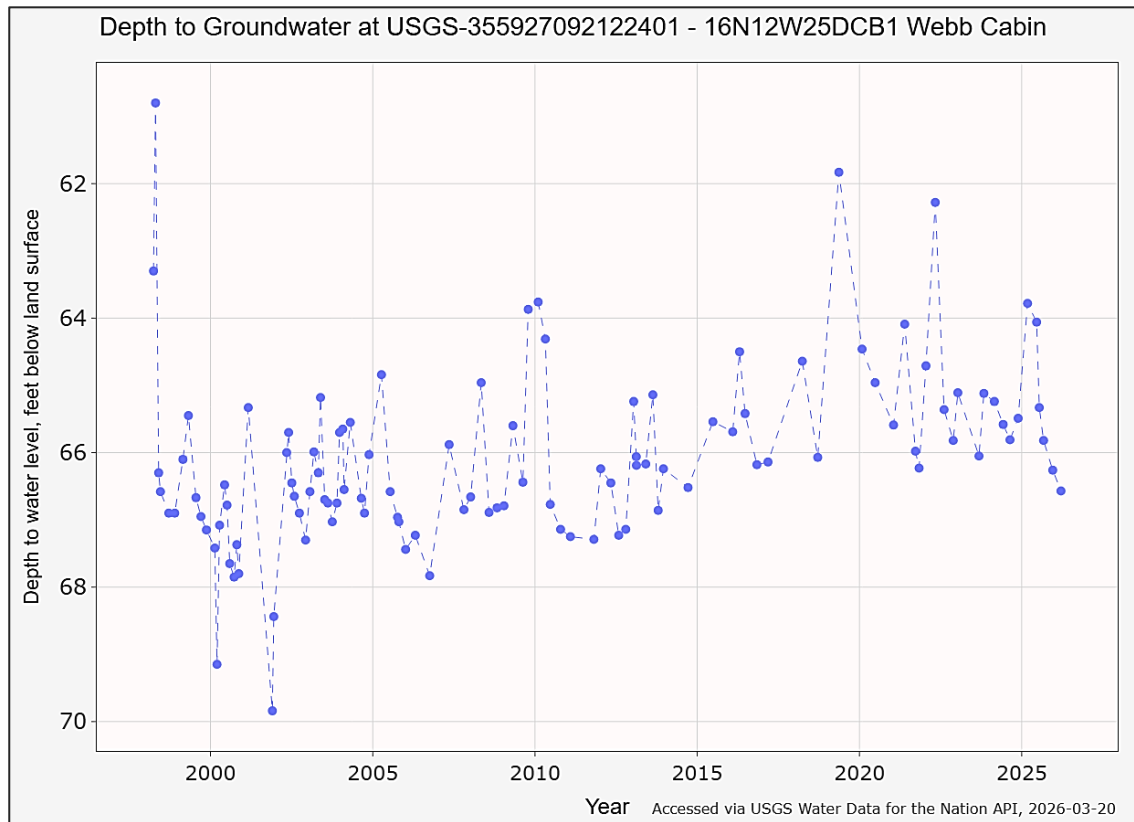
V. Fulton County, Well 19N06W20DCA1, Cotter Dolomite



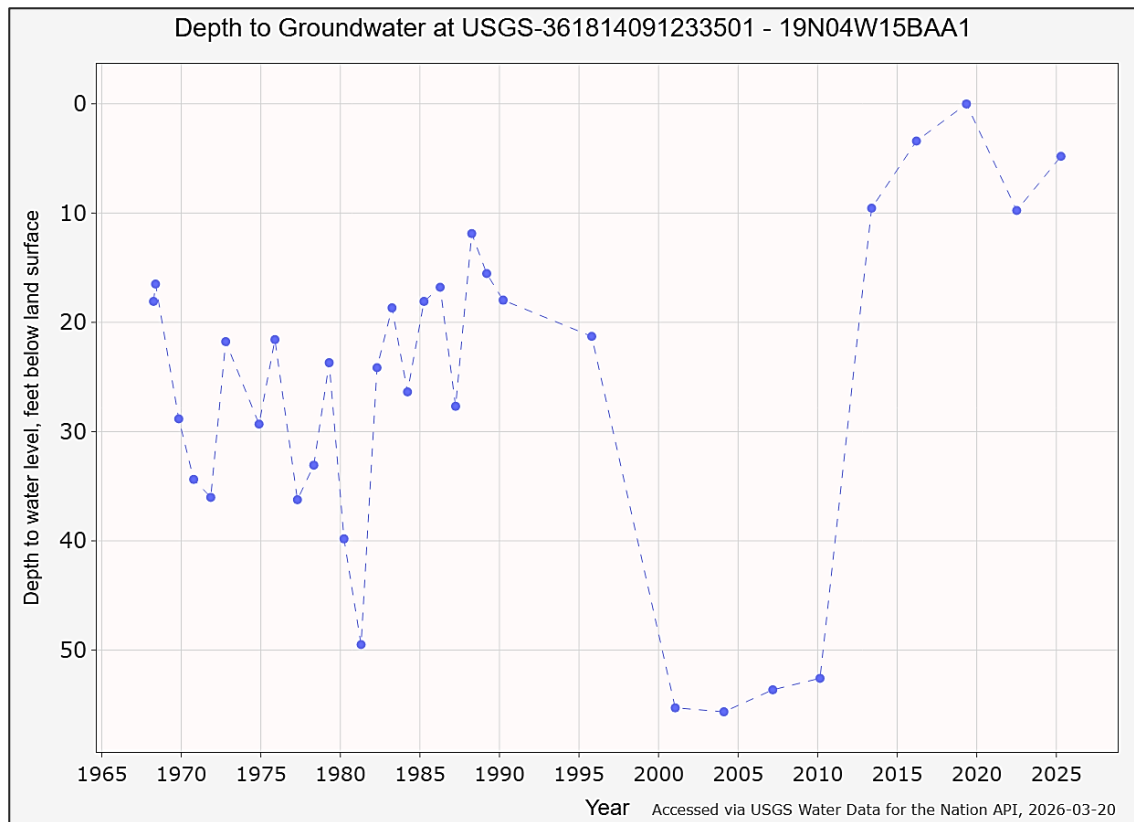
W. Fulton County, Well 19N06W29AAD1, Cotter Dolomite



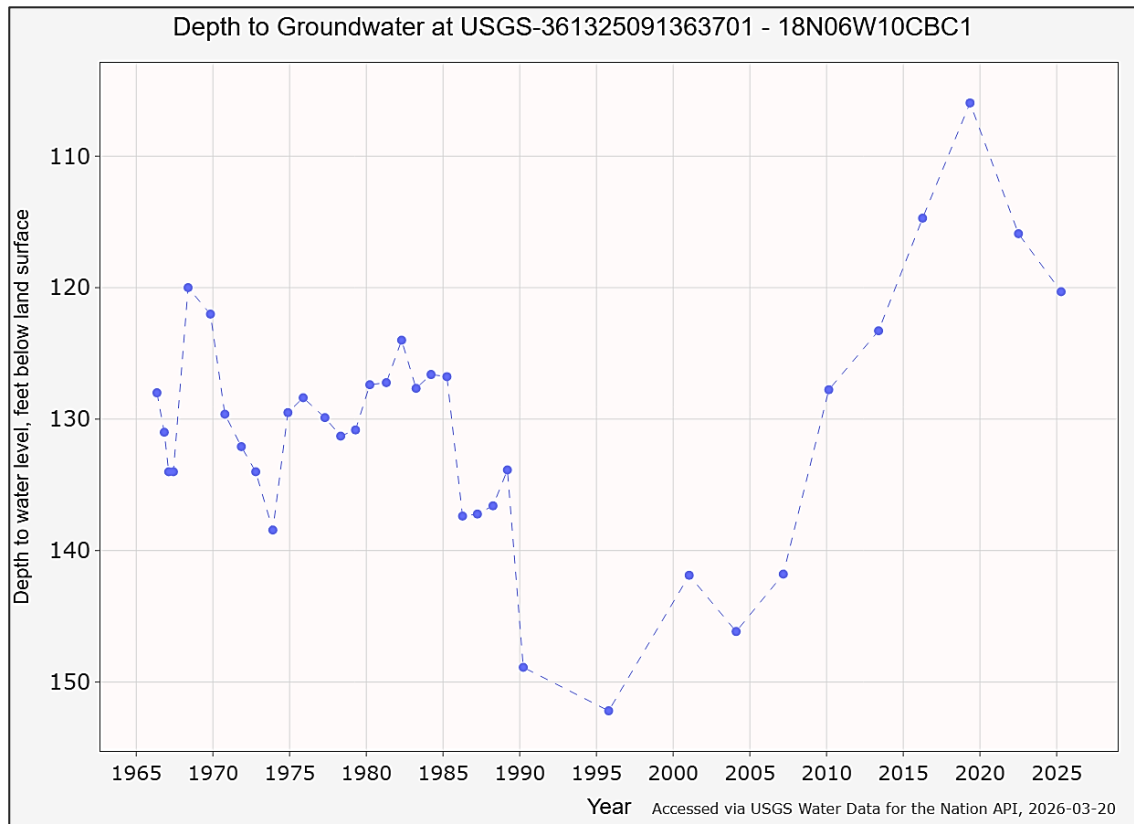
X. Izard County, Well 18N09W15BCB1, Cotter Dolomite



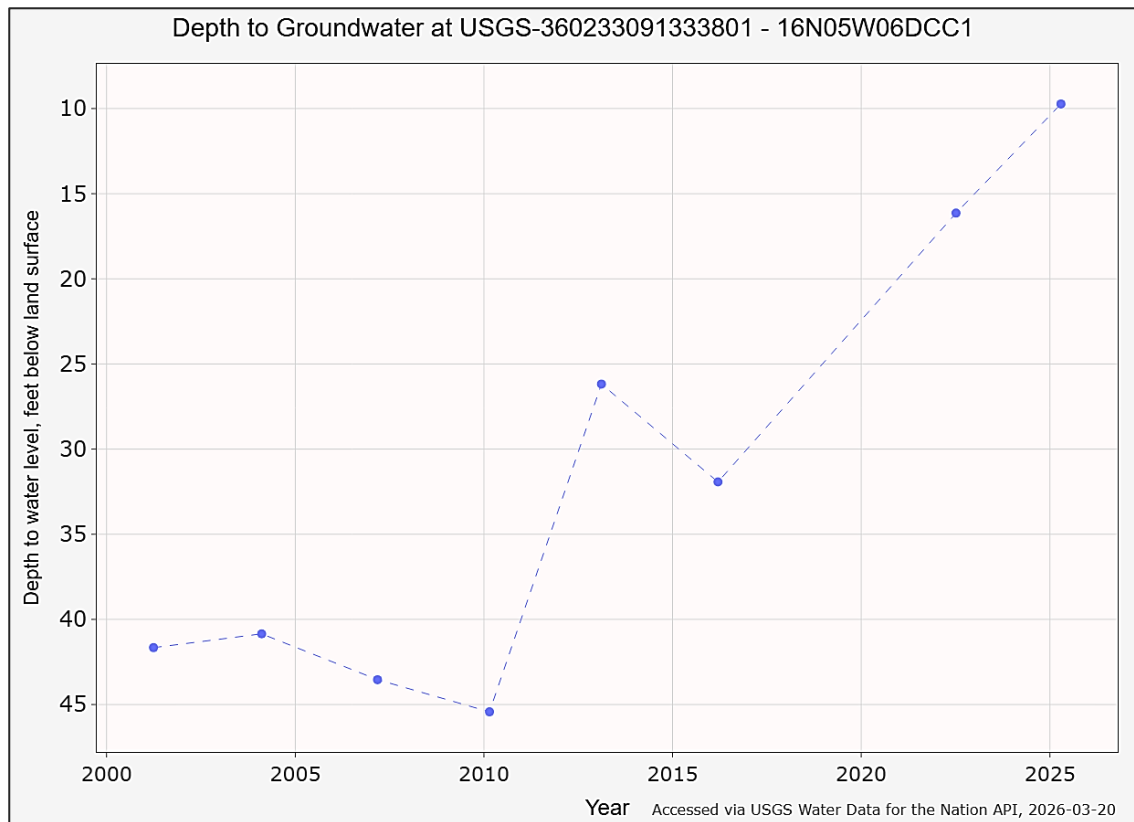
Y. Stone County, Well 16N12W25DCB1 Webb Cabin, Everton Formation



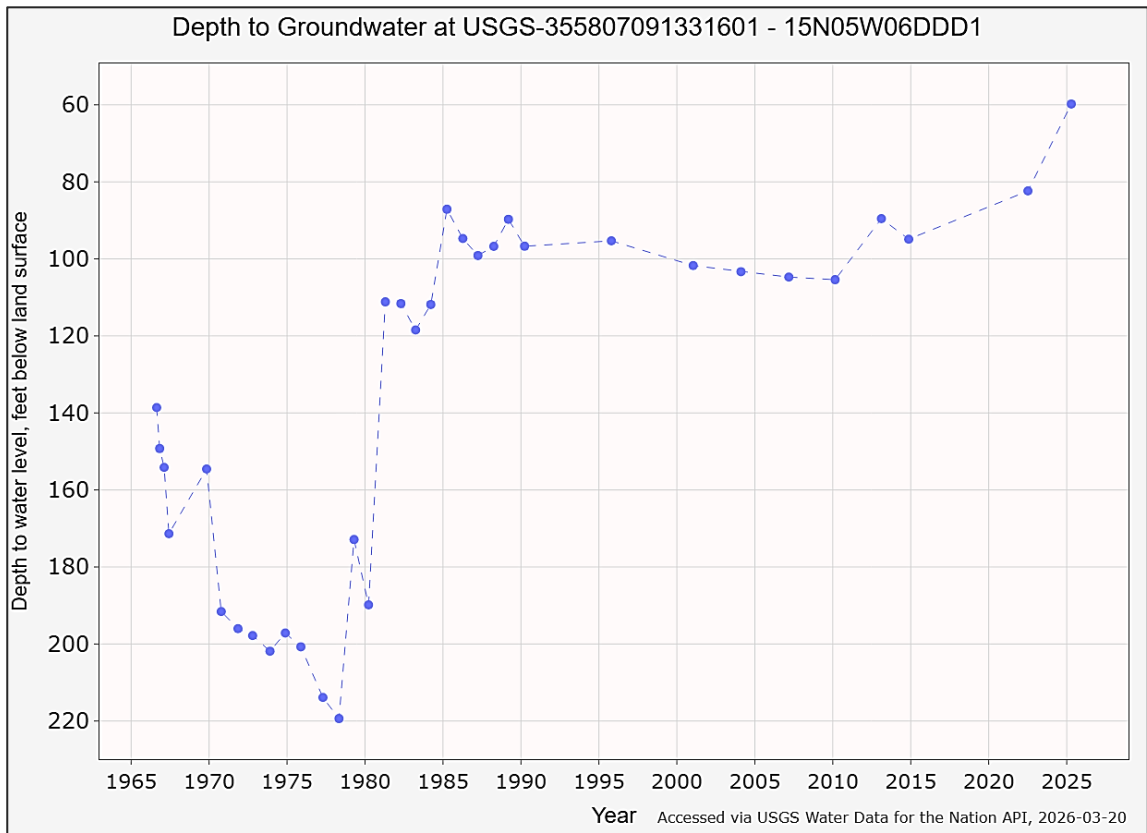
Z. Sharp County, Well 19N04W15BAA1, Roubidoux Formation



AA. Sharp County, Well 18N06W10CBC1, Gunter Sandstone



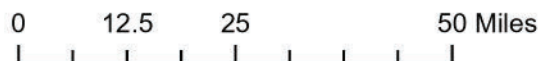
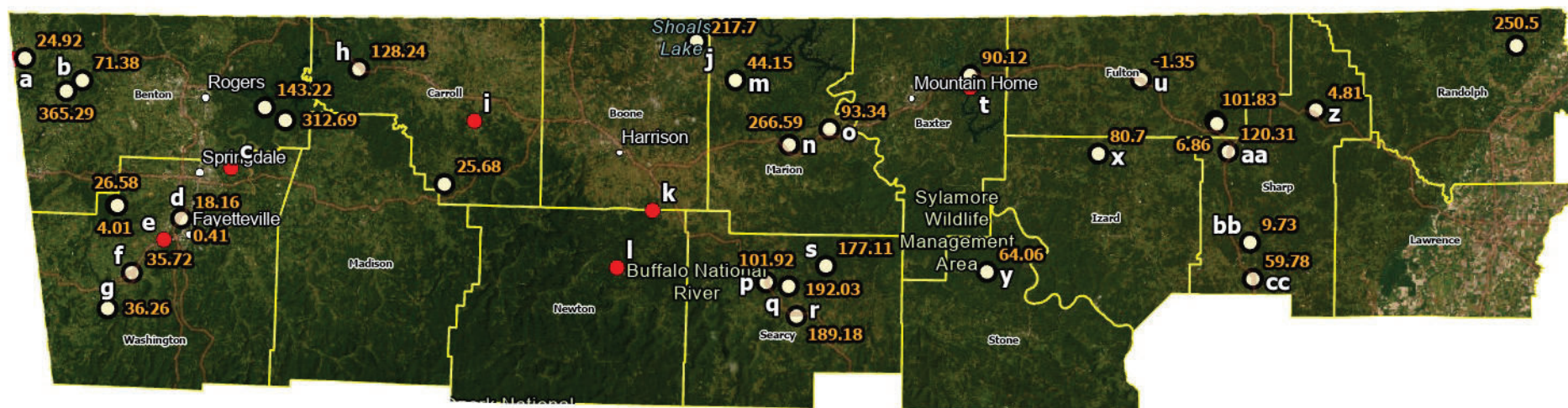
BB. Sharp County, Well 16N05W06DCC1, Roubidoux Formation



CC. Sharp County, Well 15N05W06DDD1, Everton Formation



Depth to Water (ft.) of Wells in the Ozark Aquifer System

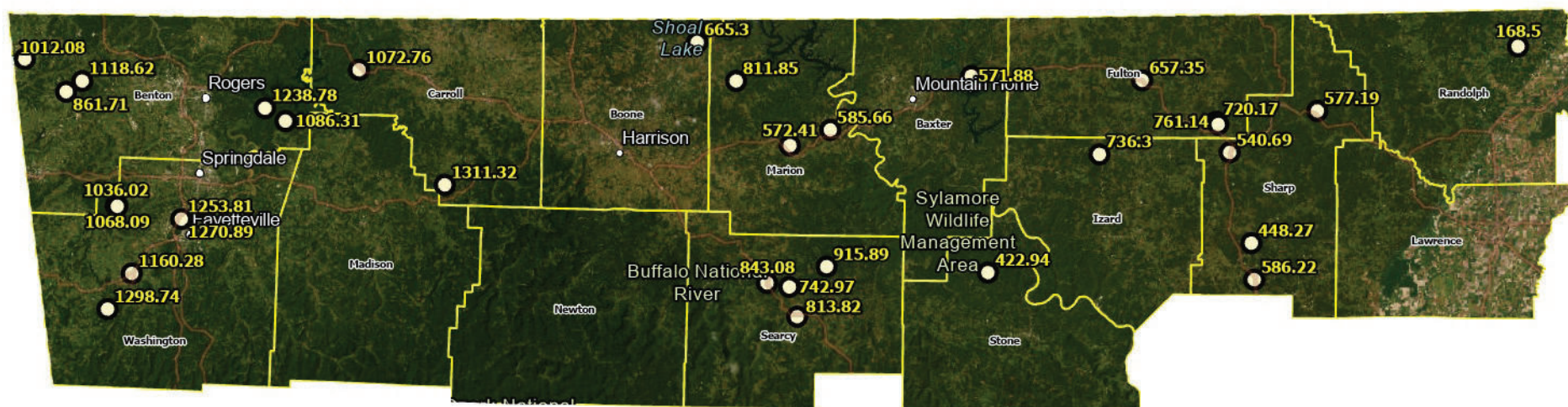


Legend

- 2025 Depth to Water Data Points
- Well has No 2025 Data but is referenced in the Hydrograph Section
- County Boundaries

Figure 40

Water Level Altitude (ft.) of Wells in the Ozark Aquifer System



Legend

- Data Points
- County Boundaries

Figure 41

Groundwater Quality

Our USGS partners contribute groundwater salinity data every year from a network of 100 wells: 50 in the Mississippi River Valley Alluvial aquifer and 50 in the Sparta-Memphis aquifer. This network is sampled on a rotation of 25 wells per year alternating years between the Alluvial and Sparta aquifers. In 2025, field measurements from 25 wells in the Sparta aquifer were performed recording pH values, temperature, specific conductance, and concentrations of chloride and bromide. In 2026, 25 wells from the Alluvial aquifer will be sampled per the contracted schedule. Results from the 2025 sampling event are presented below in Figures 42 and 43.

In addition to the Groundwater Salinity Program, the state is interested in monitoring other water quality parameters across its other aquifers. To achieve this goal, the Department partners with the USGS to maintain the Arkansas Masterwell Network program, a long-term groundwater quality network comprised of 47 active wells and springs in 14 different aquifers across the state. Five sites are sampled each year for a variety of water-quality constituents including common ions, metals, nutrients, and radiochemistry. In 2025, five different aquifers were represented by this sampling effort. The results for salinity and Masterwell sampling can be seen in Figures 43 and 44, respectively.

2025 Water Quality Site Locations

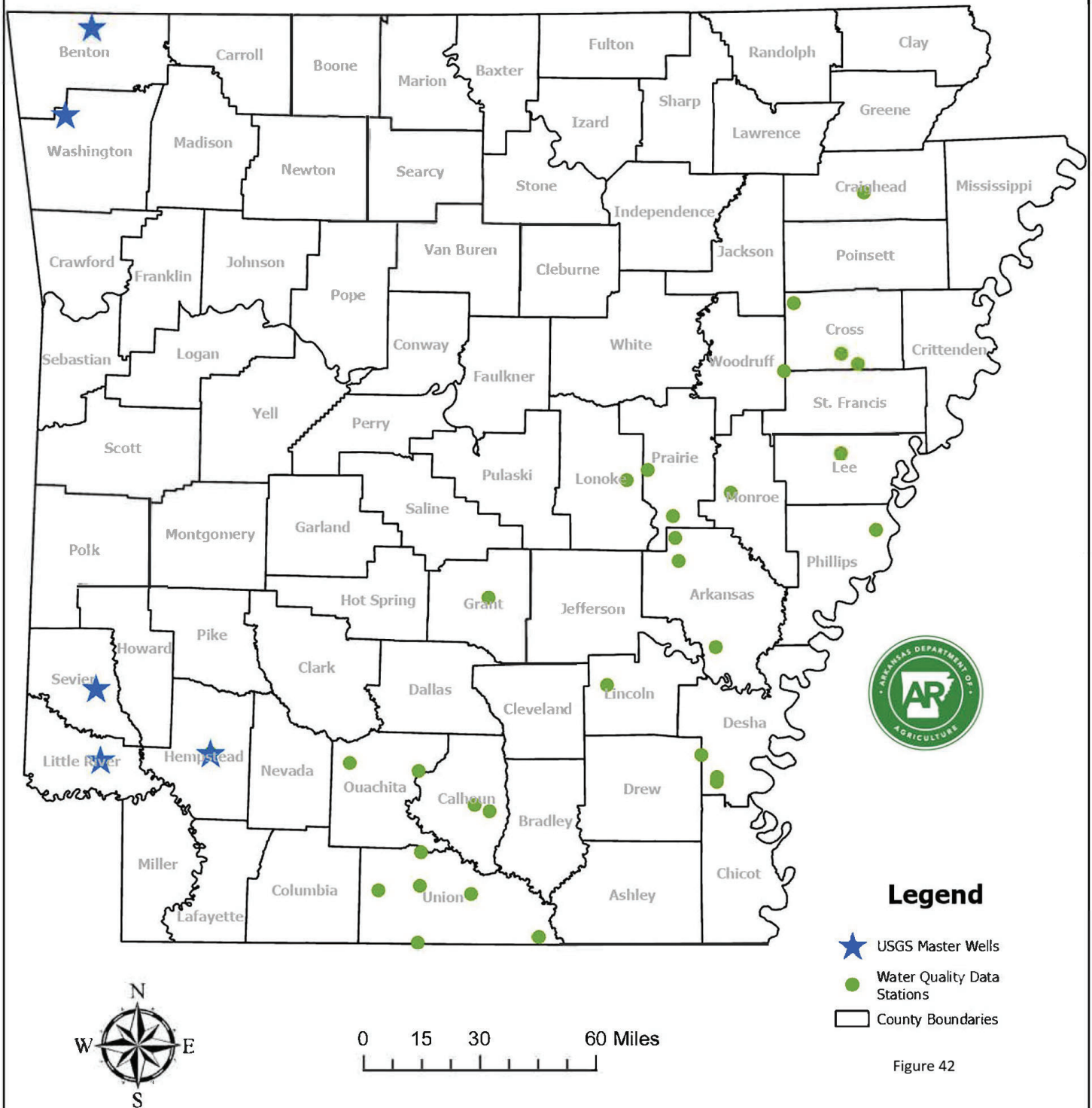


Figure 43
2025 Sparta Aquifer Salinity Results

Site ID	County	Date	Bromide (mg/L)	Chloride (mg/L)	Specific conductance (field; uS/cm)	Specific conductance (lab; uS/cm)	Temperature (deg. Celcius)	pH (S.U.)
01N03W14CCB1	Monroe County	8/1/2025	0.98	160	988	1020	20.6	7.3
01S05W20ABB1	Prairie County	8/6/2025	0.06	35.5	656	639	22.2	7.2
02N06W20BCB1	Prairie County	7/30/2025	0.05	8.83	475	465	20.6	6.9
02N07W32DDD1	Lonoke County	7/30/2025	0.04	9.53	436	493	20	7
02S04E02DAA1	Phillips County	8/7/2025	0.56	111	975	980	20.1	7.3
02S05W16CBB1	Arkansas County	8/6/2025	0.12	33.2	1200	1210	19.7	6.9
03N03E28CDB1	Lee County	7/31/2025	1.68	359	1670	1770	20.7	7.5
03S05W15CBB1	Arkansas County	8/6/2025	0.03	8.85	328	346	23.5	7.2
05S13W03CAA1	Grant County	8/7/2025	0.03	4.09	55	61	22.2	7
06N01W13ABA1	Woodruff County	7/24/2025	0.43	76.6	870	866	19.7	7.2
06N04E06ACA1	Cross County	7/24/2025	0.01	1.26	479	453	20.2	7.2
07N03E28BAA1	Cross County	7/31/2025	0.06	6.3	402	548	19.8	7.2
07S03W06ABC1	Arkansas County	8/6/2025	0.02	6.94	224	194	26.8	7.5
08S08W35DCB1	Lincoln County	8/5/2025	ND	1.31	143	193	27.4	8.2
09N01E16CAC1	Cross County	8/1/2025	0.01	12.5	423	502	20.1	7.6
09N04E30DCA1	Cross County	8/1/2025	0.04	3.38	396	483	22	7.2
11S04W25DAA1	Drew County	8/5/2025	0.02	3.7	278	307	23.7	8.9
12S03W26CBB1	Desha County	8/5/2025	0.11	17.8	361	403	25.3	8.5
12S03W34DAD1	Desha County	8/5/2025	0.06	9.22	362	363	25.4	8.7
12S16W26BAA1	Ouachita County	8/7/2025	0.05	10.3	247	232	20.8	7.6
12S19W13BBC1	Ouachita County	8/7/2025	ND	2.53	36	40	23.8	7.3
14N04E28DBD1	Craighead County	7/31/2025	0.14	17.9	291	348	19.7	6.4
14S13W05BBD1	Calhoun County	8/7/2025	0.05	18	422	426	24.2	8.8
14S13W12CCB1	Calhoun County	8/7/2025	0.09	15	458	426	24.4	8.8
19S11W25AAA1	Union County	7/10/2025	2.01	229	1210	1180	23.5	8.7

ND = non-detect

Figure 44
2025 Masterwell Groundwater Quality Results

Site ID	County	Formation	Date	Alkalinity (mg/L)	Aluminum (ug/L)	Ammonia and ammonium	Antimony (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Beryllium (ug/L)
09S30W23BDD2	Sevier	Trinity Group	7/24/2025	n/a	4	ND	0.068	ND	17.1	0.074
12S25W02DDD1	Heampstead	Tokio Formation	7/25/2025	n/a	6	n/a	0.093	ND	0.35	ND
12S29W19CCA1	Little River	Red River terrace deposits	7/24/2025	n/a	ND	n/a	ND	1.9	156	0.025
17N32W25DAB070	Washington	Everton Formation	9/4/2025	193	6	n/a	10	2.8	13.3	ND
21N31W36BDD1	Benton	Boone Limestone	7/22/2025	n/a	12	ND	ND	0.12	55.1	0.013

Site ID	County	Formation	Date	Bicarbonate (mg/L)	Boron (ug/L)	Bromide (mg/L)	Cadmium (ug/L)	Calcium (mg/L)	Carbonate (mg/L)	Chloride (mg/L)
09S30W23BDD2	Sevier	Trinity Group	7/24/2025	n/a	9	ND	0.045	3.51	n/a	7.18
12S25W02DDD1	Heampstead	Tokio Formation	7/25/2025	n/a	1500	0.49	ND	0.481	n/a	61.4
12S29W19CCA1	Little River	Red River terrace deposits	7/24/2025	n/a	18	0.04	ND	31.5	n/a	9.96
17N32W25DAB070	Washington	Everton Formation	9/4/2025	234	81	0.03	ND	37.1	0.6	6.12
21N31W36BDD1	Benton	Boone Limestone	7/22/2025	n/a	14	0.02	ND	34.8	n/a	7.14

Site ID	County	Formation	Date	Chromium (ug/L)	Cobalt (ug/L)	Copper (ug/L)	Inorganic nitrogen (mg/L)	Iron (ug/L)	Kjeldahl nitrogen (mg/L)	Lead (ug/L)
09S30W23BDD2	Sevier	Trinity Group	7/24/2025	0.59	1.25	2.1	1.24	ND	ND	0.067
12S25W02DDD1	Heampstead	Tokio Formation	7/25/2025	ND	1.07	ND	n/a	5.1	n/a	ND
12S29W19CCA1	Little River	Red River terrace deposits	7/24/2025	ND	0.365	0.48	n/a	82	n/a	ND
17N32W25DAB070	Washington	Everton Formation	9/4/2025	ND	2.03	0.88	n/a	6.7	n/a	0.163
21N31W36BDD1	Benton	Boone Limestone	7/22/2025	ND	0.161	ND	2.4	5.7	0.08	ND

Site ID	County	Formation	Date	Lithium (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Molybdenum (ug/L)	Nickel (ug/L)	Orthophosphate (mg/L)	Potassium (mg/L)
09S30W23BDD2	Sevier	Trinity Group	7/24/2025	8.02	1.7	3.85	ND	1.9	0.101	1.57
12S25W02DDD1	Heampstead	Tokio Formation	7/25/2025	14	0.098	2.14	0.322	ND	n/a	0.51
12S29W19CCA1	Little River	Red River terrace deposits	7/24/2025	15.4	5.96	37.6	0.258	0.51	n/a	0.72
17N32W25DAB070	Washington	Everton Formation	9/4/2025	30.5	6.91	13.5	2.76	7.2	n/a	4.63
21N31W36BDD1	Benton	Boone Limestone	7/22/2025	0.45	1.93	0.75	ND	0.3	0.02	1.7

Site ID	County	Formation	Date	Selenium (ug/L)	Silica (mg/L)	Silver	Sodium (mg/L)	Specific conductance (uS/cm)	Strontium (ug/L)	Sulfate (mg/L)
09S30W23BDD2	Sevier	Trinity Group	7/24/2025	0.1	15.6	ND	n/a	179	21.5	0.93
12S25W02DDD1	Heampstead	Tokio Formation	7/25/2025	ND	13.6	ND	155	773	26.8	54.2
12S29W19CCA1	Little River	Red River terrace deposits	7/24/2025	0.41	40.6	ND	11.9	255	138	10.8
17N32W25DAB070	Washington	Everton Formation	9/4/2025	1.5	8.16	ND	46.6	443	332	5.46
21N31W36BDD1	Benton	Boone Limestone	7/22/2025	0.15	8.97	ND	4.72	219	54.7	4.4

Site ID	County	Formation	Date	Zinc (ug/L)	pH (S.U.)	Temperature, water (deg. Celcius)	Thallium	Turbidity (NTRU)	Uranium (ug/L)	Vanadium (ug/L)
09S30W23BDD2	Sevier	Trinity Group	7/24/2025	14.9	6.8	25.5	ND	n/a	0.042	0.1
12S25W02DDD1	Heampstead	Tokio Formation	7/25/2025	ND	8.5	30.6	ND	n/a	ND	ND
12S29W19CCA1	Little River	Red River terrace deposits	7/24/2025	ND	6.7	21.6	ND	n/a	0.161	0.85
17N32W25DAB070	Washington	Everton Formation	9/4/2025	4.7	7.8	16.4	ND	16	1.79	2.9
21N31W36BDD1	Benton	Boone Limestone	7/22/2025	ND	7.3	14.8	ND	n/a	0.076	0.17

ND = non-detect n/a = not analyzed

Groundwater Use

Registered Wells

In accordance with Act 1051 of 1985, all wells in Arkansas that have the capacity to produce fifty thousand (50,000) gallons per day must be registered with the Department. Domestic wells are exempt. The quantity used must be reported by March 1 of the following year. The USGS reports that there are approximately 50,000 registered wells in the state and over 97 percent are agricultural wells used primarily for irrigation in Eastern Arkansas. The remaining approximate three percent of reported wells are used predominately for commercial, industrial, and public water supply purposes.

Reported Water Use

In 2015, an estimated total of 8,254.60 million gallons per day (Mgal/d) of water were reportedly withdrawn from all of the state's aquifers. The greatest reported volumes are from the Mississippi River Valley Alluvial (Alluvial) aquifer and the Sparta/Memphis (Sparta) aquifer, with approximately 7,636.08 Mgal/d being used from the Alluvial aquifer and approximately 160 Mgal/d being used from the Sparta aquifer. The 2015 total water use data is still the most recent accurate figure for total water use across the state for various reasons; however, reported agricultural irrigation water use numbers for 2020 have been provided by the USGS.

Reported agricultural irrigation water use in 2020 estimates that a total of 5,583 Mgal/d of groundwater was used for irrigation from all aquifer sources in Eastern Arkansas, with 5,092 Mgal/d from 36,166 wells in the Alluvial aquifer and 76 Mgal/d from 571 wells in the Sparta aquifer (USGS, 2022). This is a reduction of over 2,000 Mgal/d from the estimated agricultural irrigation water use in 2018 of 7,590 Mgal/d (USGS, 2019). In 2015, reported irrigation groundwater use is estimated to have been 7,434 Mgal/d from 48,410 wells in the Alluvial aquifer. Based on these numbers, irrigation groundwater use from the Alluvial aquifer in 2020 was approximately 2,342 Mgal/d less than in 2015 with 12,000 fewer wells reported. This reduction in reporting can be partially attributed to the pandemic and the related difficulties it caused that year, but the 2018 data used in previous reports also showed a considerable reduction from 2015. Reported irrigation groundwater use from the Sparta aquifer in 2020 increased by 12 Mgal/d from 2015 with 286 more wells reported.

The sustainable yield of the Alluvial aquifer has been estimated at approximately 3,374 Mgal/d using the Mississippi Embayment Regional Aquifer Study (MERAS) modeling scenarios in which the aquifer was maintained at 50 percent saturated or 30 feet above the base of the aquifer, whichever was greater (Clark, B.R., Westerman, D.A., and Fugitt, D.T., 2013). Based on this sustainable yield, approximately 66 percent of reported 2020 irrigation groundwater use is sustainable using an incomplete, conservative estimate. Regarding the Sparta aquifer, 2020 irrigation water use estimates of 76 Mgal/d would account for approximately 86 percent of the estimated sustainable yield of 87 Mgal/d. This sustainable yield estimate is derived from USGS conjunctive use optimization modeling where drawdown constraints were defined as the hydraulic head at the top

of the Sparta aquifer formation where the formation is confined and the hydraulic head is at 50 percent saturated along the outcrop areas (McKee, P.W., Clark, B.R., and Czarnecki, J.B., 2004).

Historically, counties that report the largest groundwater withdrawals from the Alluvial aquifer are the same counties with groundwater depletion issues, particularly where recharge is limited by geologic conditions. Arkansas, Lonoke, Poinsett, Woodruff, Clay, Desha, and Cross counties used the most groundwater for irrigation, based on 2020 reported water use numbers. This is mostly consistent with the areas of significant drawdown in the Alluvial aquifer. Figure 45 presents the 2020 agricultural and irrigation water use as reported at the time of this report.

In consideration of the significant reduction in stations reporting in 2020 when compared to 2015, an effort was made to estimate the change in usage if reporting numbers were similar. Figure 46 shows the 2020 reported usage per county in Mgal/day. A graph comparing the number of stations reporting water use data from 2015, 2018, and 2020 can be seen in Figure 47.

Using this information, Figure 45 was created presenting the change in number of stations reporting between 2015 and 2020, as well as calculating the average usage per station in each county in Mgal/day. This allowed for creation of estimated usage numbers for each county based on the average reported use per station. These values are approximate and cannot be considered exact representations of usage, but they may give a closer to accurate estimate of irrigation water use per county in 2020. Figure 48 gives the projected water use per county for 2020 by combining actual reported use with estimated usage as described. In this analysis, several counties in critical areas of interest are shown to have significantly underreported usage.

Based on this estimated data we can compare the 2015 total agricultural irrigation usage number reported of 8,240 Mgal/day to the 2020 reported of 5,583 plus the average estimated usage of 2,443 Mgal/day, giving a total for 2020 of 8,026 Mgal/day, suggesting a decrease in usage from 2015 to 2020 of 214 Mgal/day. While merely an estimate based on averages, this information demonstrates the importance of increased reporting on accurate usage data and concurrently our ability to quantify the value of conservation methods on overall water usage and aquifer levels.

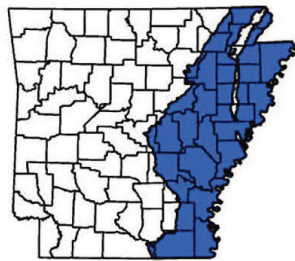
Figure 50 presents the 2020 water use reported per crop type for the state. The pie chart shows the percentage of total reported groundwater use per crop. The principal agricultural uses of groundwater in the state are for poultry watering and rice, soybean, corn, and cotton irrigation.

Agriculture/ Irrigation Groundwater Use in Eastern Arkansas for 2020 (Mgal/day)



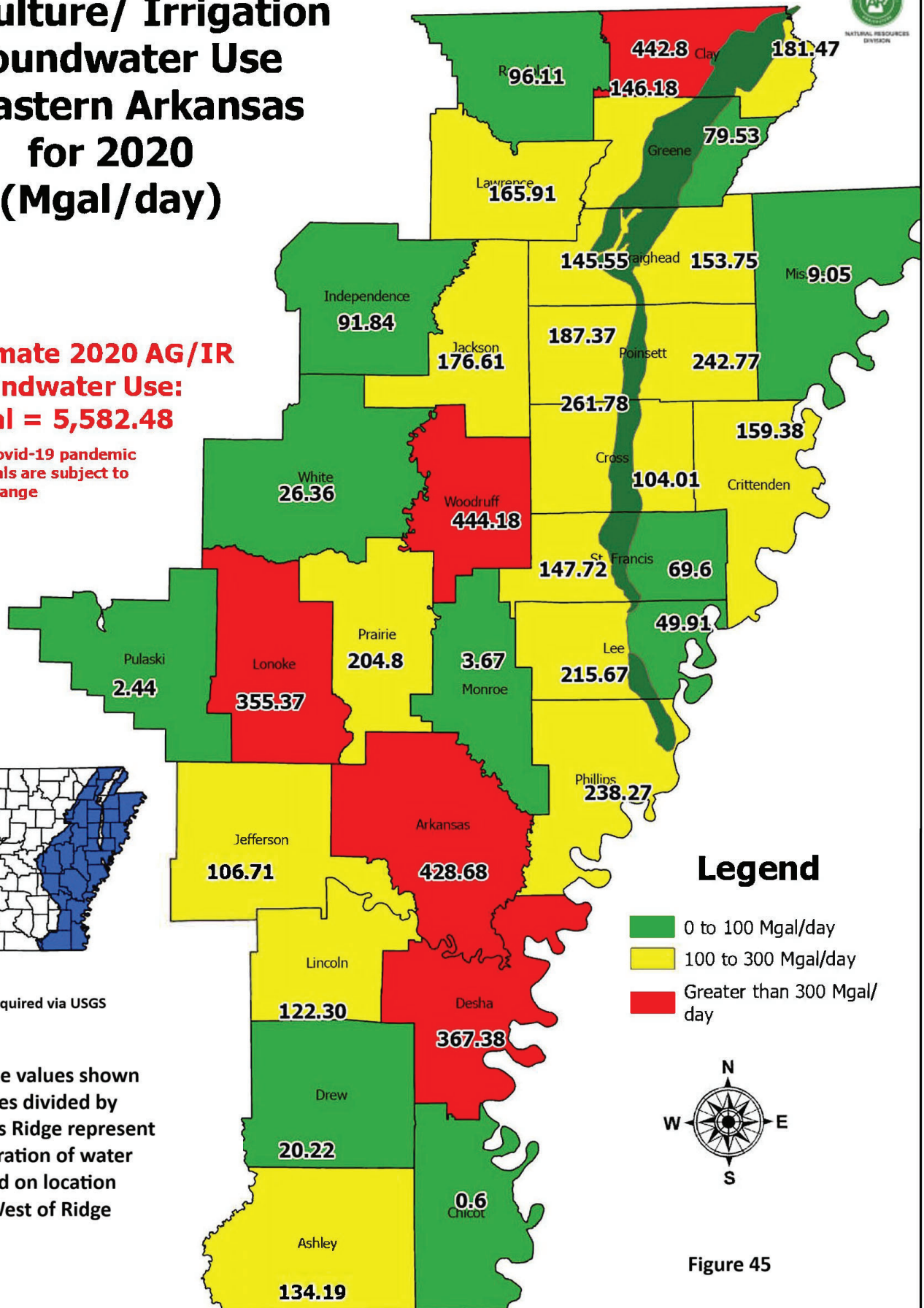
**Approximate 2020 AG/IR
Groundwater Use:
Total = 5,582.48**

*** Due to the Covid-19 pandemic
water use totals are subject to
change**



*Data acquired via USGS

Water use values shown
in counties divided by
Crowley's Ridge represent
the separation of water
use based on location
East or West of Ridge



Legend

- 0 to 100 Mgal/day
- 100 to 300 Mgal/day
- Greater than 300 Mgal/day

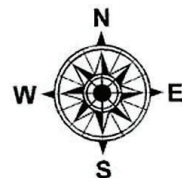


Figure 45

0 10 20 40 Miles

2020 Reported Water Use

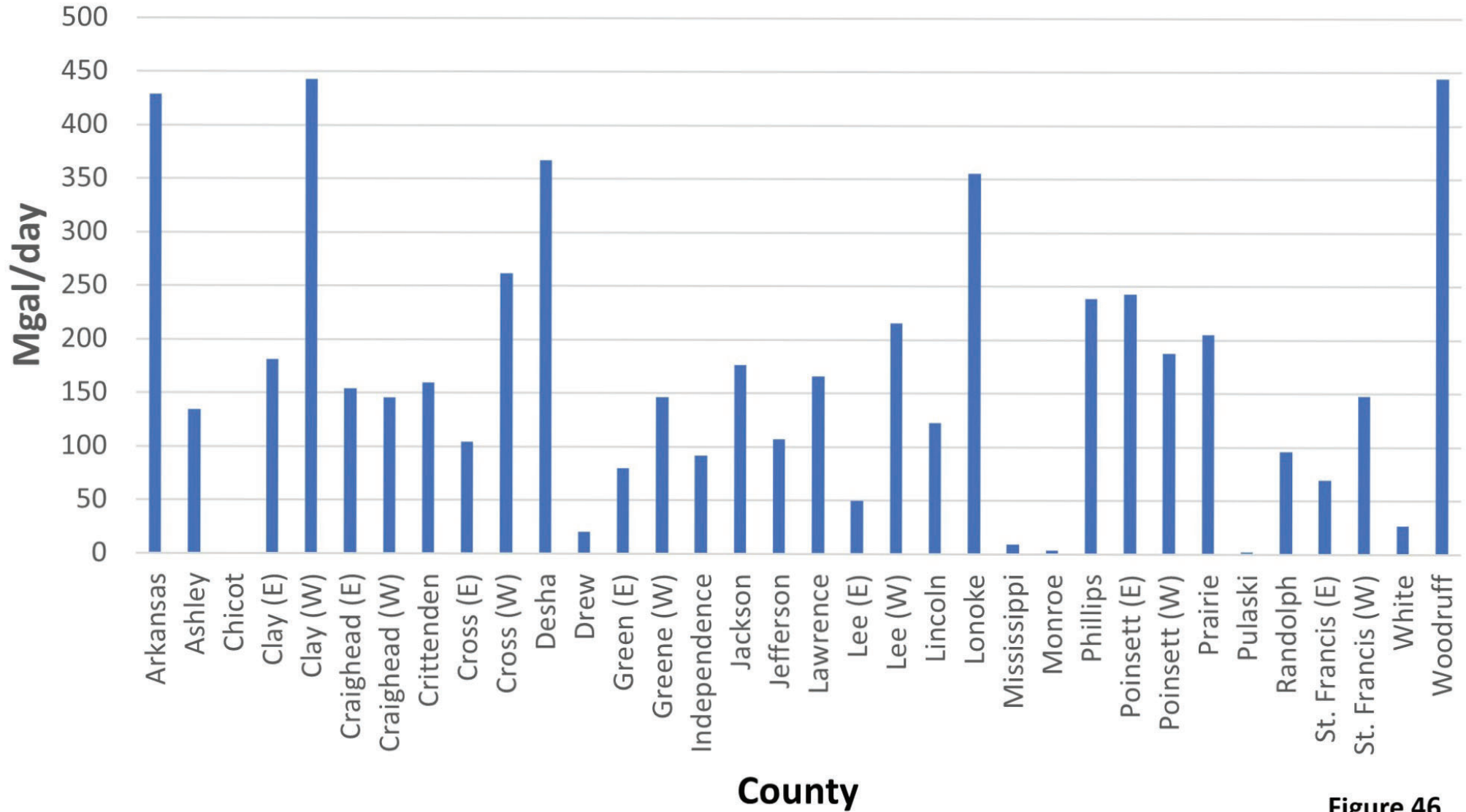
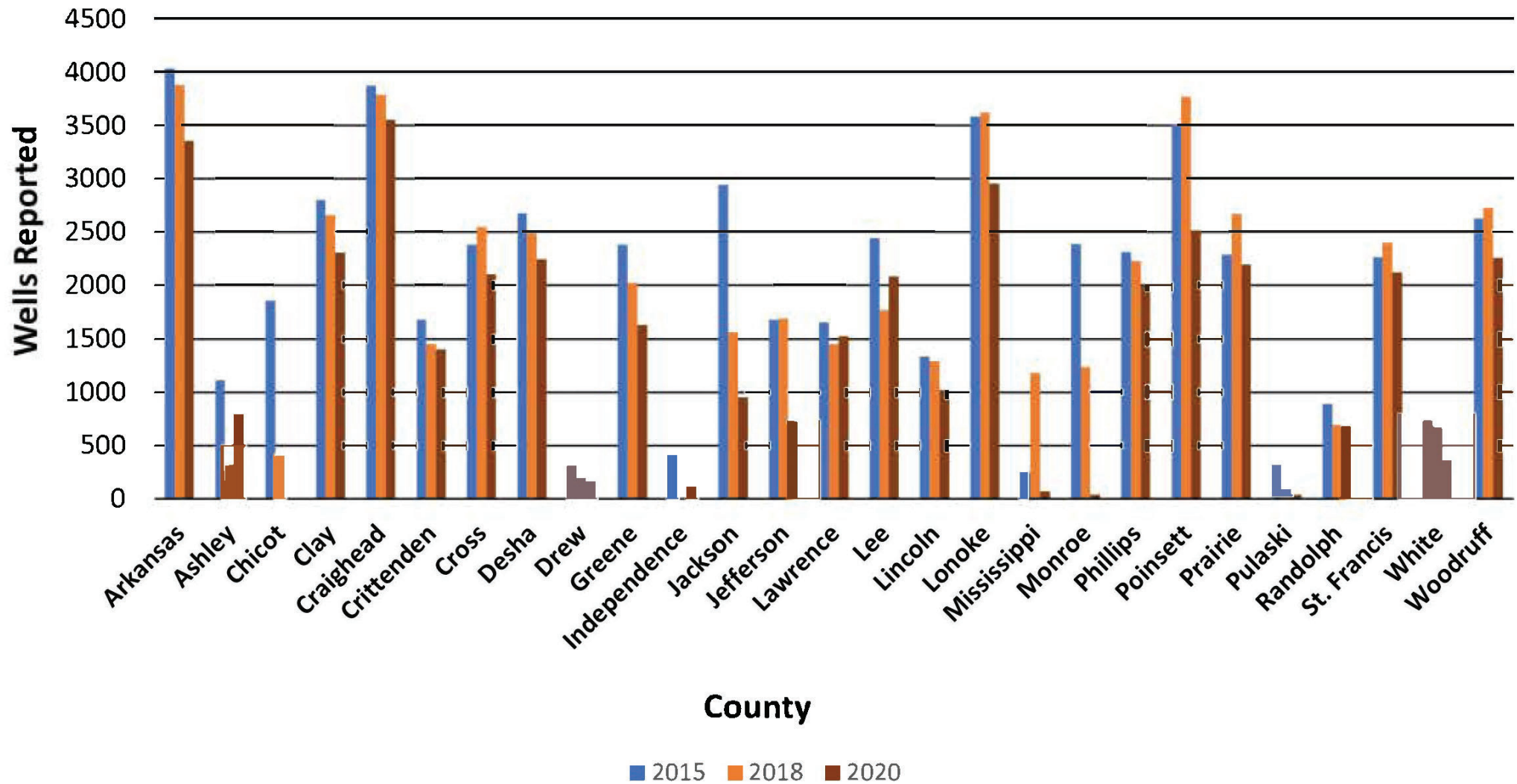


Figure 46

Agriculture Water Use Reporting Station Total Comparison 2015/2018/2020

Figure 47

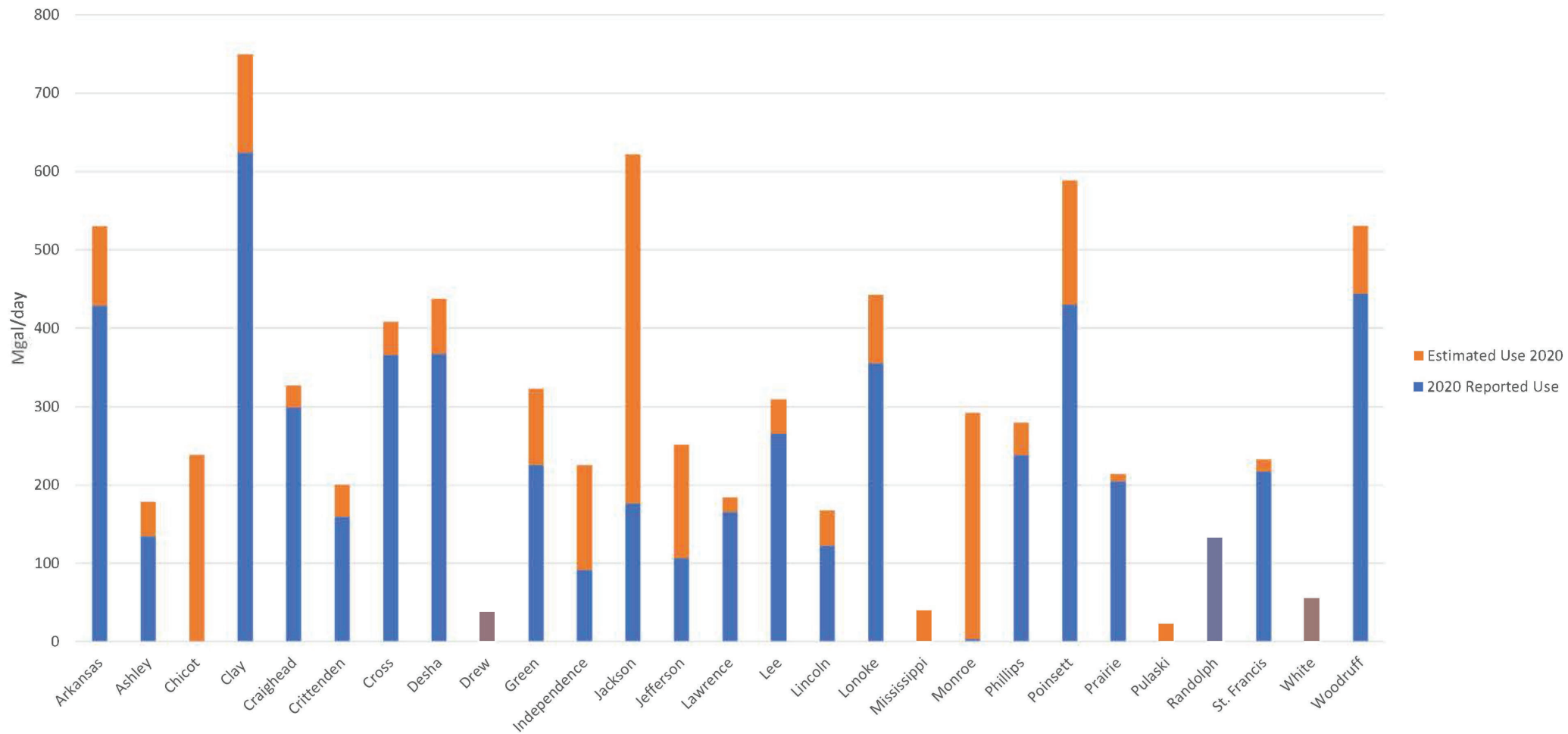


2020 Estimated Usage Table

Figure 48

	2015	2018	2020	Range of use per station		Avg yrly use/station	Change in # Stations	Estimated Usage	Low end	High end
County	Avg use/station	Avg use/station	Avg use/station	2015-2018-2020		2015-2018-2020	2015-2020	2015-2020	2015-2020	2015-2020
Arkansas	0.1140	0.2085	0.1277	0.1140	0.2085	0.1501	676	101.44	77.04	140.94
Ashley	0.1187	0.1347	0.1692	0.1187	0.1692	0.1408	316	44.51	37.50	53.47
Chicot	0.1071	0.1294	0.1500	0.1071	0.1500	0.1288	1847	237.93	197.74	277.05
Clay	0.2121	0.2722	0.2713	0.2121	0.2722	0.2519	498	125.43	105.61	135.57
Craighead	0.0767	0.0982	0.0843	0.0767	0.0982	0.0864	325	28.08	24.92	31.92
Crittenden	0.2012	0.1371	0.1134	0.1134	0.2012	0.1506	274	41.25	31.08	55.12
Cross	0.1469	0.1275	0.1744	0.1275	0.1744	0.1496	283	42.33	36.09	49.34
Desha	0.1484	0.1813	0.1636	0.1484	0.1813	0.1644	427	70.22	63.37	77.40
Drew	0.1196	0.1124	0.1280	0.1124	0.1280	0.1200	149	17.88	16.75	19.07
Greene	0.1190	0.1331	0.1384	0.1190	0.1384	0.1302	750	97.61	89.26	103.79
Independence	0.0998	0.0000	0.8127	0.0998	0.8127	0.4563	293	133.69	29.25	238.13
Jackson	0.2970	0.1873	0.1861	0.1861	0.2970	0.2235	1992	445.14	370.71	591.63
Jefferson	0.1356	0.1687	0.1482	0.1356	0.1687	0.1508	961	144.95	130.33	162.10
Lawrence	0.1958	0.1156	0.1088	0.1088	0.1958	0.1400	131	18.35	14.25	25.65
Lee	0.1198	0.1200	0.1276	0.1198	0.1276	0.1225	360	44.09	43.13	45.94
Lincoln	0.1517	0.1595	0.1201	0.1201	0.1595	0.1438	315	45.30	37.84	50.25
Lonoke	0.1117	0.1808	0.1205	0.1117	0.1808	0.1377	633	87.13	70.68	114.47
Mississippi	0.2548	0.1404	0.1275	0.1275	0.2548	0.1742	178	31.01	22.69	45.36
Monroe	0.1597	0.1129	0.0966	0.0966	0.1597	0.1231	2348	288.95	226.77	374.95
Phillips	0.1578	0.1147	0.1196	0.1147	0.1578	0.1307	319	41.69	36.59	50.33
Poinsett	0.1269	0.1781	0.1713	0.1269	0.1781	0.1587	999	158.59	126.73	177.90
Prairie	0.0826	0.1166	0.0934	0.0826	0.1166	0.0975	95	9.27	7.85	11.07
Pulaski	0.0893	0.0620	0.0678	0.0620	0.0893	0.0730	279	20.38	17.30	24.92
Randolph	0.1783	0.2022	0.1415	0.1415	0.2022	0.1740	212	36.89	30.01	42.87
St Francis	0.1242	0.0998	0.1025	0.0998	0.1242	0.1089	142	15.46	14.18	17.64
White	0.0720	0.0901	0.0734	0.0720	0.0901	0.0785	376	29.52	27.07	33.87
Woodruff	0.3159	0.1849	0.1970	0.1849	0.3159	0.2326	372	86.52	68.79	117.50
Totals								2443.61	1953.55	3068.26

Figure 49
Estimated Water Use for 2020 by County



2020 Water Use by Crop

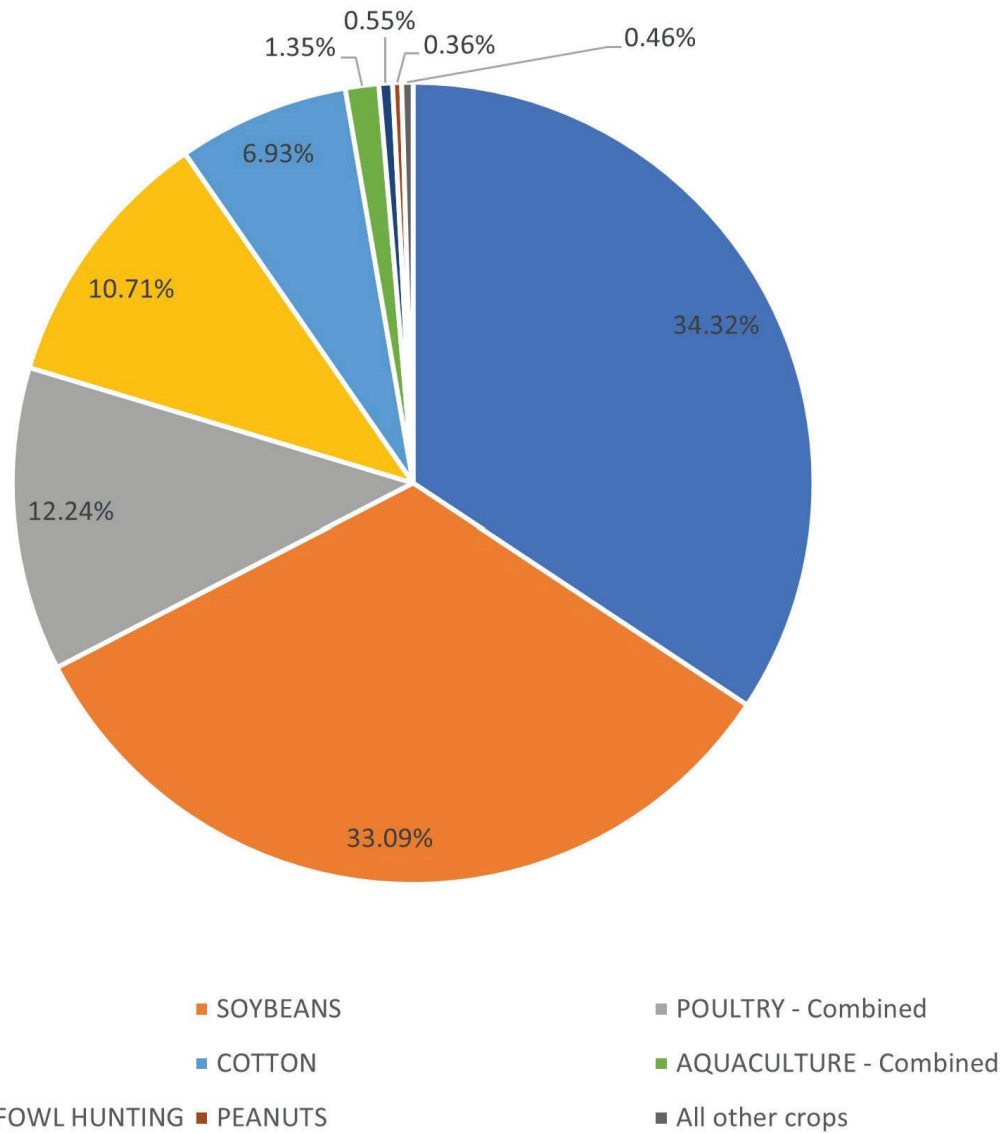


Figure 50

Water Conservation Tax Incentive Program

The Water Conservation Tax Incentive Program encourages water users to invest in water conservation practices by offering a tax credit equal to 25 percent (statewide) or 50 percent (in a critical groundwater area) of the cost to implement the practice. The following water conservation practices are eligible for tax credits:

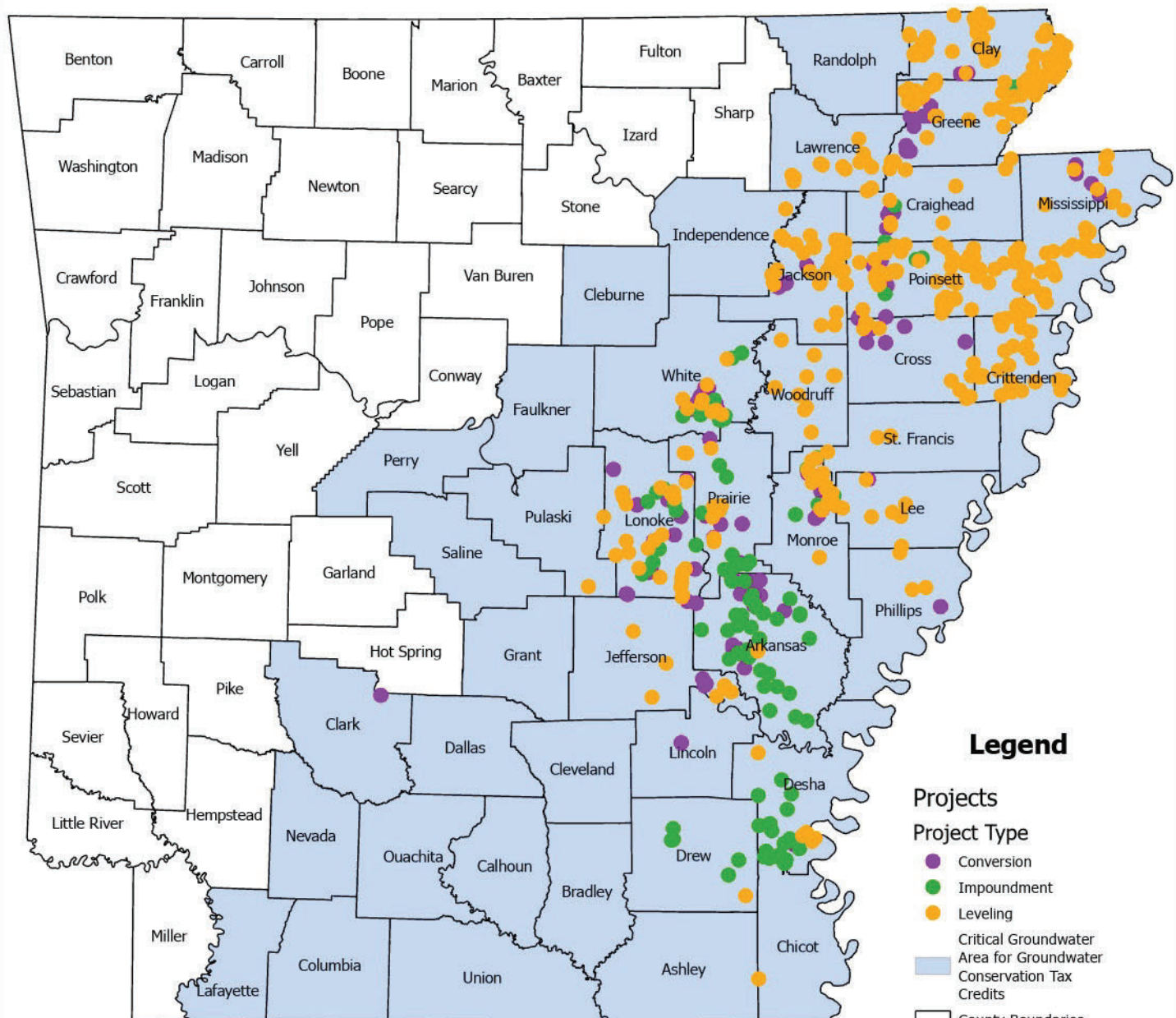
- The construction of impoundments to utilize available surface water and reduce our dependence on groundwater;
- The conversion from groundwater use to surface water use when surface water is available;
- Land leveling to moderate runoff and reduce agricultural irrigation water use; and
- The installation of water meters to monitor groundwater usage.

Figure 51 shows the locations of the water conservation projects that were approved for a tax credit for the years 2016 through 2025. A summary table of the number and types of conservation practices approved for a tax credit can be found below.

	Impoundments	Land Leveling	Surface Water Conversion	Totals
2016	22	64	10	96
2017	12	45	8	65
2018	13	22	15	50
2019	9	27	12	48
2020	7	29	10	46
2021	15	43	10	68
2022	3	42	7	52
2023	13	64	12	89
2024	10	54	13	77
2025	11	46	8	65

In 2025, 65 projects were approved. Land leveling constituted the largest number of these projects (46), with noteworthy increases in impoundments (11) and surface water conversions (8). These 65 projects added 9,865 acres to the total land covered by groundwater tax credit conservation practices and are critical components of Arkansas' sustainable groundwater resource management.

Water Conservation Tax Credits Approved from 2016 to 2025

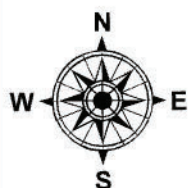


Legend

Projects

Project Type

- Conversion
- Impoundment
- Leveling
- Critical Groundwater Area for Groundwater Conservation Tax Credits
- County Boundaries



2023 land acres covered by approved tax credit projects = 13,248.30 acres

2024 land acres covered by approved tax credit projects = 13,375.05 acres

2025 land acres covered by approved tax credit projects = 9,863 acres

0 20 40 80 Miles

Figure 51

Summary

The 2025 Groundwater Protection and Management Report is a summary of the activities and significant findings of the Department staff. This report is prepared annually in response to legislative mandates that direct the Department to study the state's groundwater resources.

The purposes of the programs outlined in this report are to monitor the condition of the state's groundwater resources and to evaluate trends in water level and water quality fluctuations. The Department, the United States Department of Agriculture Natural Resources Conservation Service, and the U.S. Geological Survey (USGS) monitor up to approximately 1,000 water wells each year for water levels and prescribed water quality parameters. This monitoring is accomplished through a cooperative agreement between the Department and the USGS.

In the Mississippi River Valley Alluvial (Alluvial) aquifer, 287 water wells were measured in the spring of 2025, most of which were collected during the first two weeks of May due to severe flooding. The extent to which this flooding impacted water levels, if at all, is not immediately clear from data available. As in previous reports, the spring 2025 data was compared with historical spring data in one-, five-, and ten-year intervals, and average water level change values were calculated to generally represent the water level trend over time. Trend testing on historical data has been added in this report to provide additional insight into regional water level changes. The areas with the most severe groundwater declines continue to be the Grand Prairie and Cache River study areas, particularly in the areas of the aquifer furthest from a major surface water source (i.e. the Arkansas, White, and Mississippi rivers). Water level decline in the Cache River study area continues in the southern part of the area moving into St. Francis, Monroe, and Lee counties. Some water level decline has been observed in the St. Francis and Beouf-Tensas study areas, but it is unclear if these declines are accompanied by significant aquifer drawdown at this time.

These comparisons of synoptic water level data from one year to another do not represent a comprehensive analysis, and it is difficult to explain definitively what causes these changes in trends from water level data alone. Changes in the timing and span of collected datasets in recent years should result in more accurate illustrations of the aquifer levels in the coming years as more normalized datasets are collected. In other words, it is important to keep in mind that these data are limited and that the year-to-year change comparisons are simple averages taken over a large dataset from a complex and dynamic system; interpretation of these data should be supplemented with the trend test results.

In the Sparta/Memphis (Sparta) aquifer, 157 synoptic water level measurements were collected for the spring 2025 dataset. When compared with historical spring data, the 2025 data shows average water level change values of -0.14, +1.01, and +11.54 feet in the one-, five-, and ten-year intervals, respectively.

The Sparta aquifer in the South Arkansas study area generally continues to see recovery where historical drawdown has been the most severe. With the exception of some wells in its eastern portion, Union County continues to experience the most recovery, having the greatest average change in the five and ten-year intervals. Wells near the historical cone of depression in Jefferson County generally showed a decrease in the one-year interval, and the five- and ten-year intervals lacked adequate data to make a comparison. An apparent long-term pattern in declining Sparta levels is observable near the western extent of the aquifer where the Alluvial and Sparta aquifers are hydraulically connected (i.e. where the Sparta “subcrops” beneath the Alluvial). It is hypothesized that both the over-production of the Alluvial aquifer and the completion of Alluvial aquifer agricultural wells across the top of the Sparta aquifer due to declining water levels in the area are impacting the Sparta aquifer in this area.

While we are seeing positive average change values in some of the comparisons of aquifer-wide averages in this report, it is important to remember that, overall, Arkansas is withdrawing groundwater from the Alluvial and Sparta aquifers in Eastern and Southern Arkansas at a rate above that which is estimated to be sustainable. Wells in certain areas where there have been historical declines do appear to show a slowing of the decline, or even a rebounding trend in water level in recent years, but it is difficult to determine what the primary causes are for rebound trends in these areas.

It is the hope of the Department that the water conservation efforts and efficiency programs that have been implemented in recent years may be having the desired effect on state’s critical aquifers. Further research and analysis of these areas and the many factors that determine their groundwater usage may give valuable guidance for future efforts to protect groundwater reserves. The Department should continue to monitor these resources and promote conservation, education, and the conjunctive use of ground and surface water at rates that are sustainable for current and future water use needs.

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Appendix A
Alluvial Aquifer Water Level Monitoring Data

County	Aquifer Code	Station ID Name	Latitude	Longitude	Date	Land Surface Altitude (ft.)	2025 Depth to Water (ft.)	2024 Depth to Water (ft.)	2020 Depth to Water (ft.)	2015 Depth to Water (ft.)	1 Year Change ('24 to '25)	5 Year Change ('20 to '25)	10 Year Change ('15 to '25)
Arkansas	110ALVM	03S02W27AB81	34.41325	-91.21430556	5/8/2025	198	64.89	62.65	66.39	64.8	2.24	2.30	0.09
Arkansas	110ALVM	08S03WT2299	34.02984722	-91.36736111	5/7/2025	177	21.95	21.77	20.33	22.22	0.18	1.62	2.82
Arkansas	110ALVM	07S02W04BB81	34.11865278	-91.24774722	5/8/2025	178	46.66			47.78			6.02
Arkansas	110ALVM	03S04W03DCA16 Rice Resea	34.46473333	-91.42093611	5/29/2025	203.62	99.46	99.63	100.75	101.44	1.69	2.25	9.40
Arkansas	110ALVM	04S04W02AB81	34.387	-91.40658056	5/7/2025	200	108.26	108.21	109.43	110.85	0.05	2.11	11.35
Arkansas	110ALVM	03S03W27BB81	34.41520278	-91.32891111	5/7/2025	198	91.26	96.98	92.31	94	9.56	2.02	11.89
Arkansas	110ALVM	04S03W17ADD1	34.35051944	-91.349475	5/7/2025	200	106.61	107.3		109.67	3.61		12.95
Arkansas	110ALVM	03S05W03CCC1	34.46461111	-91.54102778	5/7/2025	215	101.33	101.47	102.26	104.48	1.44	1.92	13.13
Arkansas	110ALVM	06S03W32ADD1	34.12777778	-91.35416667	5/7/2025	178	50.99	50.24	49.9	54.21	0.75	1.09	13.48
Arkansas	110ALVM	05S01W16BAB1	34.26433056	-91.12485833	5/8/2025	186	43.94	50.33	40.87	48.98	9.76	3.07	15.44
Arkansas	110ALVM	03S06W35ADD1	34.40316667	-91.61435278	5/7/2025	190	55.15			60.2			15.62
Arkansas	110ALVM	06S03W10BBA1	34.193325	-91.33161667	5/7/2025	184	75.78		77.34	82.06	0.58	2.39	17.04
Arkansas	110ALVM	02S05W15AAB1	34.53701944	-91.52394444	5/7/2025	212	112.6	113.2		120.15	3.36		18.11
Arkansas	110ALVM	08S02W08ACA1	34.01139722	-91.25154722	5/8/2025	179	36.98	43.86	23.43		9.88	13.55	
Arkansas	110ALVM	06S02W03AB1	34.20788889	-91.21730556	5/8/2025	188	65.26	67.31	54.49		6.36	10.77	
Arkansas	110ALVM	05S04W34BAC1	34.219675	-91.43481667	5/7/2025	190	64.65		65.35			1.64	
Arkansas	110ALVM	05S03W09CBA1	34.27322222	-91.34616667	5/7/2025	196	111.25	111.47	112.78		2.01	2.35	
Arkansas	112MRVAA	03S04W24CC1	34.41693056	-91.3934	5/7/2025	193	80.48	80.69	83.12		1.88	2.82	
Arkansas	110ALVM	04S04W35ABC1	34.31168889	-91.41451944	5/7/2025	193	100.9	101.22	104.08		2.20	2.96	
Arkansas	112MRVAA	02S04W23DA1	34.51231944	-91.39811944	5/7/2025	207	92.76	93.11	97.01		2.33	3.05	
Ashley	110ALVM	17S06W35CAC1	33.18038611	-91.69355278	5/6/2025	179	73.62	73.84		73	1.95		0.62
Ashley	110ALVM	19S06W07BCC1	33.06765556	-91.76886667	5/6/2025	134.7	30.84	31.96	31.59	31	4.76	1.69	2.11
Ashley	110ALVM	18S08W28DDD2 near Crosse	33.10688889	-91.92457222	4/2/2025	164.19	82.76	83.36	84.32	84.4	3.23	2.44	7.80
Ashley	110ALVM	18S08W01AAB1	33.170825	-91.87364444	5/6/2025	178	87.47	86.88	88.34	90.12	0.59	1.83	11.71
Ashley	110ALVM	17S04W03ABB1	33.25808056	-91.50275	5/7/2025	124	30.45		22.9	34.3		7.55	14.02
Ashley	110ALVM	19S04W14BBB1	33.05394444	-91.49461111	5/6/2025	107	27.09		24.2			2.89	
Ashley	110ALVM	19S05W16ABB1	33.05651385	-91.62178862	5/6/2025	116	20.16	20.89	18.91		3.68	1.25	
Ashley	110ALVM	16S06W25DDD1	33.27777778	-91.66611111	5/7/2025	180	79.21	79.18	79.21		0.03	1.17	
Ashley	110ALVM	18S04W23DDD1	33.11427778	-91.49477778	5/6/2025	115	31.37	30.05	33.11		1.32	2.53	
Ashley	110ALVM	18S05W11CCD1	33.13794444	-91.59369444	5/6/2025	117	18.64		29.35			3.24	
Chicot	110ALVM	16S03W15DAD1	33.305	-91.39277778	5/7/2025	118	35.94	34.44	32.43	33.34	1.50	3.51	2.60
Chicot	110ALVM	15S02W20DDC1	33.37405278	-91.322175	5/7/2025	126	36.66	35.9	33.75	36.7	0.76	2.91	1.40
Chicot	110ALVM	17S01W06BCC1	33.25032778	-91.25145	5/7/2025	117	25.61		21.32			4.29	
Chicot	110ALVM	14S02W09BDD1	33.49714722	-91.31101944	5/8/2025	136	30.58	30.44	28.36		0.14	2.22	
Chicot	110ALVM	17S03W28DBA1	33.19071944	-91.41150556	5/9/2025	110	25.72		24.98			0.74	
Chicot	110ALVM	14S03W32CDB2	33.437075	-91.43095833	5/9/2025	134	41.17	40.16	40.9		1.01	0.27	
Chicot	110ALVM	13S03W35BAC1	33.53183333	-91.37916667	5/8/2025	133	40.76	41.26	41.92		2.65	2.06	
Chicot	110ALVM	17S02W25CBA1	33.19208889	-91.25681111	5/7/2025	131	40.1	39.38			0.72		
Chicot	110ALVM	19S02W27ACC1	33.01598056	-91.29495	5/6/2025	129	41.62	41.18			0.44		
Chicot	110ALVM	19S03W14ABB1	33.05124167	-91.38074722	5/6/2025	110	23.96						
Clay	112TRRC	21N04E09DBC1	36.47425	-90.64918889	5/8/2025	297	15.38	14.03	8.25	12.5	1.35	7.13	2.88
Clay	112TRRC	19N08E08DCA1	36.29196389	-90.23480833	5/6/2025	266	3.88	5.55	2.65	2.9	5.60	1.23	0.98
Clay	112TRRC	19N07E25BCB1	36.25533889	-90.28363056	5/7/2025	273	15.55	18.39	12.41	15	7.58	3.14	0.55
Clay	110ALVM	21N06E28BB1	36.4347	-90.43554722	5/7/2025	290	20.79		19.25	20.7		1.54	0.09
Clay	112TRRC	20N06E09BBA1	36.39088889	-90.43922222	5/7/2025	291	24.44	25.52	23.12	24.6	4.64	1.32	1.93
Clay	110ALVM	18N08E11BAA1	36.21561111	-90.19227778	5/6/2025	257	6.55	6.44	6.5	6.8	0.11	0.05	2.64
Clay	110ALVM	20N05E30CAC1	36.34447222	-90.57863889	5/5/2025	284	19.77	20.66	17.25	20.6	4.25	2.52	4.60
Clay	112TRRC	20N05E34DBA1	36.32758611	-90.52143611	5/7/2025	285	33.33	33.48	31.83	34.3	1.50	1.50	5.31
Clay	110ALVM	19N04E19BAA1	36.28188889	-90.69069444	5/7/2025	279	22.75	24.63	20.9	24.2	5.85	1.85	7.26
Clay	110ALVM	19N06E18DBC1	36.27836389	-90.4708	5/7/2025	291	42.11	41.83	40.75	44	0.28	1.36	9.04
Clay	112TRRC	20N05E22CAD1	36.35331667	-90.52518889	5/7/2025	289	30.85	32.74	29.97	33.2	5.98	0.88	10.11
Clay	110ALVM	21N09E31BDA1	36.41306111	-90.14784167	5/5/2025	283	1.81	2.62	1.61	4.3	3.87	0.20	10.64
Clay	110ALVM	21N03E15CBC1	36.46258333	-90.74811111	5/8/2025	292	9.59	12.5	8.78	12.4	7.77	0.81	12.24
Clay	110ALVM	20N09E33DDC1	36.31641667	-90.10838889	5/6/2025	272	3.05		5.6	6.1		2.77	12.77
Clay	112TRRC	20N09E09ABC1	36.38516667	-90.11225	5/5/2025	280	4.39	10.59	4.24	7.6	9.69	0.15	13.31
Clay	110ALVM	21N07E01DDC1	36.47638889	-90.26886111	5/7/2025	303	20.17	28.61	16.78	24.2	10.14	3.39	14.55

Clay	110ALVM	19N05E15BBD1	36.26513889	-90.53441667	5/5/2025	285	40.36	39.02	37.9	47.1	1.34	2.46	17.75
Clay	110ALVM	21N05E17ABB1	36.46595	-90.55811111	5/7/2025	300	25.78	24.01	21.39		1.77	4.39	
Clay	110ALVM	20N08E24DDA1	36.34909722	-90.15929444	5/6/2025	276	8.28	10.38	5.6		6.43	2.68	
Craighead	112TRRC	13N04E15DBA1	35.756	-90.64772222	5/9/2025	232	29.08	25.07	23.21	26.5	4.01	5.87	2.58
Craighead	112TRRC	14N01E03ACB1	35.87925	-90.97175	5/1/2025	251	57.5	58.1	56.1	55.5	3.29	1.40	2.00
Craighead	112TRRC	13N03E28CDB1	35.72122222	-90.77938889	5/8/2025	251	119.71	109.78	117.59	119.5	9.93	2.12	0.21
Craighead	112TRRC	13N04E26BCC1	35.7266	-90.64343889	5/1/2025	229	26.23	26.91	24.12	26.3	3.55	2.11	1.58
Craighead	110ALVM	14N01E10BAB1	35.86838889	-90.97511111	5/1/2025	251	57.24	57.41	56.53	58	1.63	0.71	4.24
Craighead	110ALVM	14N02E27AAA1 near Cash	35.82102778	-90.85680556	6/10/2025	255.36	84.76	83.47	84.38	85.74	1.29	0.38	5.67
Craighead	110ALVM	14N03E30CBC1	35.81282222	-90.82084722	5/9/2025	276	86.36	78	86.67	88.26	8.36	1.31	9.22
Craighead	110ALVM	14N06E06BAA1	35.87776111	-90.49371111	5/1/2025	243	19.33	20.78	18.23	21.4	5.34	1.10	9.58
Craighead	110ALVM	13N07E02CAB1	35.77623889	-90.3177	5/1/2025	227	4.07	4.88	2.93	6.4	4.00	1.14	9.93
Craighead	110ALVM	13N05E24BAC1	35.74696111	-90.51025	5/8/2025	226	8.59	9.39	5.48	13	3.74	3.11	14.91
Craighead	112TRRC	13N05E02CCC1	35.78053889	-90.53536944	5/1/2025	229	12.91	13.79	9.31	18	4.12	3.60	15.80
Craighead	110ALVM	13N07E05ABB1	35.78816667	-90.36575	5/1/2025	229	6.09	7.79	5.3	12.1	5.72	0.79	16.33
Craighead	110ALVM	15N06E04BAD1	35.96158333	-90.45116667	5/1/2025	239	11.42	13.31	8.42	18	6.04	3.00	17.39
Craighead	112TRRC	13N05E06DCC1	35.77708333	-90.59755556	5/8/2025	232	20.41	20.94	17.55	27	2.84	2.86	17.57
Craighead	110ALVM	13N06E21AAA1	35.74518056	-90.4505	5/1/2025	224	6.21	8.09	5.91	14	5.92	0.30	18.28
Craighead	112TRRC	14N07E14DDC1	35.83147222	-90.30958333	5/8/2025	232	5.37	7.39	4.19	13.4	6.24	1.18	18.46
Craighead	110ALVM	14N05E36BAD1 near Jonesboro, AR	35.80489167	-90.50860556	6/10/2025	230.29	46.45	45.77	39.81		0.68	6.64	
Craighead	110ALVM	13N01E01BDC1	35.78636111	-90.9415	5/7/2025	250	72.33	72.37	71.22		1.31	1.11	
Craighead	110ALVM	14N01E21BB2	35.83947222	-90.99988889	5/1/2025	253	60.27	62.51	60.75		6.94	1.50	
Craighead	112TRRC	14N01E21BBB1	35.839475	-90.99944167	5/7/2025	252	59.86	60.16			2.08		
Craighead	110ALVM	15N07E35DB2	35.87877778	-90.30975	5/1/2025	235	5.67						
Craighead	110ALVM	14N06E06AB1	35.87786111	-90.49144444	5/8/2025	243	19.3						
Crittenden	110ALVM	07N07E05DAD1	35.24951111	-90.35426111	5/14/2025	215	30.32	33.14	29.4	32.1	7.52	0.92	8.51
Crittenden	110ALVM	09N07E20DCC1	35.38222222	-90.36611111	5/15/2025	213	28.07	27.01	28.51	30.44	1.06	1.40	10.46
Crittenden	110ALVM	05N07E28CBA1	35.02258889	-90.36106944	5/9/2025	201	16.09		10.39	18.7		5.70	11.53
Crittenden	110ALVM	06N07E13BAA1	35.14710556	-90.30210278	5/9/2025	207	19.72			22.5			12.06
Crittenden	110ALVM	07N07E31CCC1	35.17830556	-90.39971389	5/9/2025	209	34.25	34.26	33.79	37.1	1.24	0.46	12.42
Crittenden	110ALVM	08N07E35BBC1	35.275	-90.32583333	5/14/2025	222	30.18	30.76	29.89	33.17	3.10	0.29	12.60
Crittenden	110ALVM	07N08E04BBD1	35.25596944	-90.24092778	5/14/2025	224	19.16	21.37	16.08		6.81	3.08	
Crittenden	110ALVM	09N08E17ABA1	35.40879444	-90.25496667	5/15/2025	223	21.59		20.18			1.41	
Crittenden	110ALVM	05N07E34CDD1	35.00906944	-90.33359167	5/9/2025	206	9.23	18.67	8.59		10.40	0.64	
Crittenden	110ALVM	09N06E30ADD1	35.373275	-90.49325	5/15/2025	216.17	27.32	28.22	31.33		4.32	3.01	
Crittenden	110ALVM	04N07E21AAD1	34.94550833	-90.35596944	5/9/2025	202	6.81	12.02			9.12		
Cross	112TRRC	09N01E33BBA2	35.36743333	-91.00016667	5/9/2025	225	99.99	92.52	93.03	88.23	7.47	6.96	11.76
Cross	110ALVM	06N02E11BDB1	35.15977778	-90.86058333	5/9/2025	218	77.17	71.62	69.53	69.5	5.55	7.64	7.67
Cross	110ALVM	09N01E04ACD1	35.43811111	-90.987	5/9/2025	238	101.27		101.31	94.2		1.26	7.07
Cross	110ALVM	09N02E20AAA1	35.39372778	-90.89524722	5/9/2025	230	104.84	104.2	102.03	98.3	0.64	2.81	6.54
Cross	110ALVM	09N01E36AAB1	35.36628611	-90.93457222	5/9/2025	224	99.72	102.34	101.62	96	7.13	2.63	3.72
Cross	110ALVM	07N01E11AAA1	35.25034722	-90.95146944	5/7/2025	219	86.37	89.25	83.53	83.61	7.71	2.84	2.76
Cross	110ALVM	07N02E02CDD1 CS1-SW19	35.25222222	-90.85361111	6/10/2025	227.18	89.26	88.25	86.49	86.55	1.01	2.77	2.71
Cross	110ALVM	07N05E25ABA1	35.20801944	-90.51244167	5/9/2025	205	37.32	41.96	34.51	39.68	8.86	2.81	10.29
Cross	110ALVM	09N05E32BDB1	35.36403611	-90.58669722	5/15/2025	213	26.58	28.5	24.2	29.15	6.11	2.38	11.17
Cross	110ALVM	07N01E06ACC1	35.2632	-91.02626111	5/7/2025	220	82.78	82.45	79.29		0.33	3.49	
Cross	110ALVM	08N04E34DC1	35.26296111	-90.65735	5/9/2025	207.05	23.51	26.11	21.35		7.07	2.16	
Desha	110ALVM	07S01E19ABA1	34.07586111	-91.04925	5/14/2025	158	13.42	17.89	6.6	10.5	8.67	6.82	2.92
Desha	110ALVM	10S02W20ADA1	33.82111111	-91.30694444	5/8/2025	147	45.19	44.89	44.66	42.32	0.30	0.53	2.87
Desha	110ALVM	13S02W27CAC1	33.53997222	-91.29298889	5/8/2025	138	35.29	33.6	33.59	33.95	1.69	1.70	1.34
Desha	110ALVM	08S03W33ABD1	33.96747778	-91.39393889	5/8/2025	165.04	6.84	8.09	3.81	8.21	5.21	3.03	6.91
Desha	110ALVM	09S02W26DDC1 near Watson	33.88238056	-91.25823333	5/8/2025	149	31.97		26.96	33.82		5.01	8.86
Desha	110ALVM	11S02W15ADD1	33.74691667	-91.27783333	5/8/2025	144	38.91	38.41	36.42		0.50	2.49	
Desha	110ALVM	10S01W23CDA1	33.87758611	-91.17898056	5/8/2025	152	25.85	29.2	24.31		8.09	1.54	
Desha	110ALVM	11S03W31BBA1	33.70783889	-91.44752778	5/8/2025	151	33.44		33.91			1.45	
Desha	110ALVM	11S03W16CBA1	33.74427778	-91.40938889	5/8/2025	143	41.39	41.35	42.19		0.04	1.73	
Desha	110ALVM	DE-2 WU	33.8944	-91.50243889	5/9/2025	164	43.94	43.12			0.82		
Desha	110ALVM	10S04W11DDA1	33.84203611	-91.46713333	5/8/2025	156	38.06						

Drew	110ALVM	11S04W35CDD1	33.69555556	-91.47833333	5/8/2025	152	27.84	27.55	26.34	32.31	0.29	1.50	15.08
Drew	110ALVM	13S04W33BAA1	33.53518889	-91.51669167	5/8/2025	138	17.82	18.2	15.16	23.25	2.52	2.66	15.97
Drew	110ALVM	13S04W32BAD1	33.52508889	-91.53277222	5/8/2025	134	15.67	16.64	14.09		4.51	1.58	
Drew	110ALVM	11S05W08CCC1	33.76291111	-91.64365556	5/8/2025	185	39.82	39.22	38.78		0.60	1.04	
Drew	110ALVM	14S04W05CBA1	33.52606111	-91.55993056	5/8/2025	131	11.51	12.74	11.38		5.15	0.13	
Drew	110ALVM	15S04W13DAD1	33.39709722	-91.46407222	5/7/2025	125	38.08	36.06	38.12		2.02	1.21	
Drew	110ALVM	11S04W08DD1	33.76346111	-91.53778056	5/8/2025	161	30.43	29.61			0.82		
Greene	110ALVM	17N03E32CDC1	36.05473889	-90.79305556	5/8/2025	259	41.07	35.91	34.35	36.1	5.16	6.72	4.97
Greene	110ALVM	19N03E33DDD1	36.23845278	-90.75328889	5/8/2025	278	39.56		35.16	37.7		4.40	1.86
Greene	110ALVM	18N03E24ACA1	36.18900278	-90.70223056	5/8/2025	271	36.78	35.25	33.4	35.6	1.53	3.38	1.18
Greene	110ALVM	18N07E05DAB1	36.22096667	-90.34063333	5/6/2025	270	14.32	17.5	11.89	14.5	8.03	2.43	2.47
Greene	110ALVM	18N06E26CDD1	36.1584	-90.40368889	5/6/2025	266	23.63	24.8	15.42		5.02	8.21	
Greene	110ALVM	17N04E30CDC1	36.06940833	-90.70485833	5/8/2025	267	44.05	43.48	42.35		0.57	1.70	
Greene	110ALVM	17N03E02AC2	36.13877778	-90.73261111	5/8/2025	266	34.6		33.98			0.62	
Greene	110ALVM	18N07E35DCD1	36.14258333	-90.29116667	5/6/2025	248	2.63	6.78			8.54		
Greene	110ALVM	19N05E34AA1	36.24369444	-90.51725	5/6/2025	282	43.67						
Independence	110ALVM	12N04W35CBB1	35.61950278	-91.3954	5/8/2025	228	9.36	20.07	5.99	3.1	10.46	3.37	6.26
Independence	110ALVM	12N04W34CBB1	35.62225	-91.42013889	5/8/2025	226	19.3	21.5	10.01	17.62	6.75	9.29	1.68
Independence	110ALVM	11N04W22BBA1	35.56924444	-91.41829444	5/8/2025	217	2.33	2.44	1.02	6.8	1.37	1.31	15.26
Independence	110ALVM	12N04W10BBC1	35.68508056	-91.39913333	5/8/2025	236	19.07	24.35	13.27	24.7	9.24	5.80	16.15
Jackson	110ALVM	13N03W35AA1	35.72481667	-91.270375	5/7/2025	237	15.88	9.32	6.84	11	6.56	9.04	4.88
Jackson	110ALVM	14N01W09AAA1	35.87232222	-91.08754444	5/7/2025	255	51.22	46.57	45.11	47.38	4.65	6.11	3.84
Jackson	110TRRC	13N01W20AAA1	35.75392778	-91.10763056	5/8/2025	244	41.82	41.2	40.64	42.2	0.62	1.18	3.18
Jackson	110ALVM	10N01W29BA1	35.44448056	-91.11281944	5/7/2025	218	49.41	53.4			8.28		
Jefferson	110ALVM	06S06W23AAD1	34.16853889	-91.62005556	5/6/2025	189.01	18.51		10.2	19.3		8.31	4.42
Jefferson	110ALVM	03S09W29CBD1	34.42133611	-92.00647778	5/6/2025	217	28.06	27.85	25.1	28.93	0.21	2.96	4.95
Jefferson	110ALVM	06S05W15BCA1	34.17304167	-91.54583333	5/6/2025	177.14	14.41	14.94	11.89	16.91	2.78	2.52	10.82
Jefferson	110ALVM	07S08W06BAA1	34.14959167	-91.94646111	5/6/2025	202	17	16.68	12.91	20.58	0.32	4.09	13.66
Jefferson	110ALVM	06S07W02BCA1	34.2159167	-91.74415	5/6/2025	193	17.79	16.52	12.07		1.27	5.72	
Jefferson	110ALVM	04S07W35DDD1	34.309575	-91.72943889	5/6/2025	184	30.75		32.34			2.49	
Jefferson	110ALVM	07S07W16BAA1	34.116425	-91.80949444	5/6/2025	188	23.82	22.62	28.9		1.20	3.10	
Jefferson	110ALVM	03S10W35BBC1	34.41522778	-92.06627778	5/6/2025	216	12.06		17.3			3.15	
Jefferson	110ALVM	04S08W13DCB1	34.35634722	-91.82401389	5/6/2025	204	47.32						
Lawrence	112TRRC	16N01W30DDC1	35.99359167	-91.12312778	5/8/2025	253.77	13.8	23.01	13.43	20	10.33	0.37	16.68
Lawrence	112TRRC	17N01W36AAB1	36.07683333	-91.02833333	5/7/2025	265.07	12.71	14.27	10.94		5.47	1.77	
Lee	110ALVM	03N01E15CCB1	34.86810556	-90.99611111	5/13/2025	204	71.48	71.13	68.63	69.51	0.35	2.85	1.97
Lee	110ALVM	03N05E14DDA1	34.86335556	-90.53423611	5/14/2025	195	12.57	14.89	8.27	13.1	7.00	4.30	3.71
Lee	110ALVM	03N02E13BBA1	34.87705556	-90.85203333	5/14/2025	212	50.86		48.69	52.3		2.17	7.09
Lee	110ALVM	01N03E35BBA1	34.65701944	-90.76401667	5/13/2025	202	11.99	17.39	7.15	18.1	9.31	4.84	16.51
Lee	110ALVM	01N03E27ADD1	34.66463056	-90.76818889	5/13/2025	202	16.18	18.87	3.43		7.26	12.75	
Lee	110ALVM	03N04E07CBB1	34.87994444	-90.72016667	5/14/2025	205	26.15	31.57	15.23		9.37	10.92	
Lee	112TRRC	01N01E24CBD1	34.67624637	-90.95420506	5/14/2025	185	17.38		9.06			8.32	
Lee	110ALVM	01N02E22CA1	34.67691667	-90.88794444	5/13/2025	200	24.62	32.13	16.55		10.08	8.07	
Lee	110ALVM	02N01E23BA1	34.77561389	-90.97201944	5/13/2025	201	59.66	54.81	55.51		4.85	4.15	
Lee	110ALVM	02N01W12BAA1	34.80769444	-91.05822222	5/13/2025	185	52.27	51.42	49.68		0.85	2.59	
Lee	112TRRC	03N02E29DAD1	34.83711667	-90.90827222	5/13/2025	205	49.89	56.76	48.91		9.82	0.98	
Lee	110ALVM	02N03E09DDD1	34.7898189	-90.78538978	5/13/2025	220	47.06						
Lincoln	110ALVM	09S05W17BCB1	33.93099722	-91.638875	5/8/2025	172	43.53		42.21	41.6		1.32	1.93
Lincoln	110ALVM	10S05W05BCB1 LN1-SW21	33.87444444	-91.6425	5/8/2025	171	30.87	29.91	29.05	30.06	0.96	1.82	0.81
Lincoln	110ALVM	08S07W05DDD1	34.050225	-91.81742222	5/6/2025	190	30.25	29.55	28.33	31.59	0.70	1.92	6.73
Lincoln	110ALVM	07S06W03CCA2	34.13763056	-91.68741111	5/6/2025	187	13.72	20.74	9.98		9.95	3.74	
Lincoln	110ALVM	08S05W32DCC1 F-6	33.97761944	-91.61353056	5/8/2025	172	47.11	46.21	47.8		0.90	1.59	
Lincoln	110ALVM	09S04W06CBB1 G-7	33.95326944	-91.56148056	5/9/2025	168	46.55	45.53	48.3		1.02	2.58	
Lincoln	110ALVM	08S04W20DC1	34.00551389	-91.50866389	5/8/2025	165	33.48	32.71			0.77		
Lonoke	110ALVM	03N08W11ACA1	34.90353333	-91.82618333	5/30/2025	257.17	113.03	110.94	109.93	105.8	2.09	3.10	7.23
Lonoke	110ALVM	04N08W15BCB2	34.97581111	-91.85590278	5/12/2025	224	36.86		33.52	35.65		3.34	1.21
Lonoke	110ALVM	01S06W31ABB1	34.58316389	-91.69207778	5/7/2025	203	80.06	81.27	79.59	81.01	5.08	0.47	5.13
Lonoke	110ALVM	01N08W26CCB1	34.67628056	-91.84539722	5/14/2025	213	105.23	108.17		107.39	7.90		9.75

Lonoke	110ALVM	03N07W08BDB1	34.90183889	-91.7773	6/4/2025	250	105	104.69	103.29		0.31	1.71	
Lonoke	110ALVM	01S10W11CAB1	34.64472222	-92.06027778	5/14/2025	236	26.37	28.48	24.79		6.49	1.58	
Lonoke	110ALVM	03N07W29CDD1	34.84878056	-91.7807	5/14/2025	230	103.36	103.88	101.88		2.72	1.48	
Lonoke	110ALVM	01N07W04DD1	34.73248889	-91.75413056	5/7/2025	225	139.42	139.58	138.09		1.56	1.33	
Lonoke	110ALVM	02N08W27DCC1	34.76194444	-91.85166667	5/27/2025	230.09	133.2		132.23			0.97	
Lonoke	110ALVM	03N08W32ABB1 UAPB Lonoke	34.849475	-91.88111667	5/27/2025	250.22	122.66		121.89			0.77	
Lonoke	110ALVM	02S09W22AAA1	34.53181111	-91.9575	5/7/2025	227.24	63.19	63.57	62.85		2.46	0.34	
Lonoke	110ALVM	02N10W15ACC1	34.80161944	-92.06491111	5/14/2025	242.04	27.54	29.49	30.45		6.17	2.91	
Lonoke	110ALVM	02S08W28CDC1	34.50194444	-91.87694444	5/7/2025	216	64.09	64.58			2.59		
Lonoke	110ALVM	01S07W12ABA1	34.64286389	-91.70828889	5/7/2025	207	91.54	92.1			3.04		
Lonoke	110ALVM	01S07W19DDB1	34.6025	-91.79611111	5/7/2025	206	89.19	89.79			3.16		
Lonoke	110ALVM	02S08W06BAA1	34.575	-91.91305556	5/7/2025	221	65.54	66.18			3.42		
Lonoke	110ALVM	01S09W11AA1	34.64931111	-91.93931111	5/14/2025	230	80.43						
Lonoke	112MRVAA	02N07W21 Bayou Two Prairie well	34.78083889	-91.76756111	5/30/2025	216.43	4.38						
Mississippi	110ALVM	14N10E27AD1	35.80931111	-89.99926667	5/8/2025	233	4.29	6.46	3.06	5.13	6.68	1.23	4.78
Mississippi	110ALVM	13N09E30CCD1	35.71664722	-90.17079444	5/13/2025	222	9.5	13.6	7.71	10.6	8.41	1.79	5.84
Mississippi	110ALVM	10N08E22ABA2	35.48084167	-90.22525	5/6/2025	224	26.09	26.27	21.93	27.93	1.76	4.16	8.69
Mississippi	110ALVM	12N10E04CAA1	35.68821111	-90.02683889	5/2/2025	233	23.62	17.63	4.98		5.99	18.64	
Mississippi	110ALVM	13N08E24ABB1	35.74988889	-90.18702778	5/2/2025	232	14.45	11.71	4.74		2.74	9.71	
Mississippi	110ALVM	12N08E28DDB1	35.63305556	-90.22144444	5/5/2025	224	25.25	22.65	16.11		2.60	9.14	
Mississippi	110ALVM	12N10E21DBA1	35.64513889	-90.02291111	5/6/2025	238	18.64	19.76	9.81		4.70	8.83	
Mississippi	110ALVM	12N09E12ABC1	35.68195	-90.08063056	5/8/2025	232	17.83	22.74	9.71		8.99	8.12	
Mississippi	110ALVM	11N10E09BCB1	35.59145833	-90.03435	5/6/2025	236.14	18.42		12.56			5.86	
Mississippi	110ALVM	13N10E20B 1	35.73833611	-90.04881667	5/8/2025	229	5.73	8.49	1.78		7.45	3.95	
Mississippi	110ALVM	16N10E28BB1	35.98503611	-90.03223056	5/6/2025	238	9.22	14.25	6.57		9.05	2.65	
Mississippi	110ALVM	14N11E33CAA1	35.78911667	-89.92278889	5/6/2025	243	10.55	13.29	8.15		7.39	2.40	
Mississippi	110ALVM	14N10E18ABC1	35.83935	-90.06266944	5/8/2025	239	10.76	14.2	9.01		8.16	1.75	
Mississippi	110ALVM	13N08E24BAA1	35.73736111	-90.18672222	5/8/2025	232	6.23		5.07			1.16	
Mississippi	110ALVM	15N12E01BCD1	35.95148889	-89.76698889	5/6/2025	255	5.76	12.93	4.92		10.01	0.84	
Mississippi	112TRRC	15N08E08DBC2	35.93461111	-90.25731111	5/7/2025	238	8.66	11.51	8.37		7.64	0.29	
Mississippi	110ALVM	14N08E26CC1	35.80076944	-90.20921944	5/13/2025	228	3.2	3.38	3.07		1.82	0.13	
Mississippi	110ALVM	14N11E17CCB1	35.83241111	-89.945	5/5/2025	240	11.43	6.78			4.65		
Mississippi	110ALVM	15N10E21ABC1	35.9125	-90.02194444	5/13/2025	241	11.18	11.99			3.93		
Mississippi	110ALVM	12N09E12AB1	35.68377778	-90.07623056	5/5/2025	233	22.65						
Monroe	110ALVM	02N01W19BBA1	34.779225	-91.15346111	5/7/2025	192	58.7	58.07	55.92	56	0.63	2.78	2.70
Monroe	110ALVM	01N01W15DBC1	34.69455556	-91.09561111	5/7/2025	187	55.94	53.92	52.19	54	2.02	3.75	1.94
Monroe	112TRRC	04N02W27CDD3	34.92783889	-91.19714722	5/12/2025	202	46.41	46.77	45.31	46.85	2.40	1.10	3.36
Monroe	110ALVM	02S01W01BCD1	34.55088056	-91.06753889	5/7/2025	176	19.4	18.08	17.77	20	1.32	1.63	3.89
Monroe	110ALVM	01S02W20BBB1	34.60352778	-91.24891667	5/14/2025	171	7.76	12.27	3.39	9	8.73	4.37	6.38
Monroe	110ALVM	01N02W12CBC1	34.71175	-91.17552778	5/7/2025	182	42.93	42.89	43.25	44.18	0.04	1.36	6.55
Monroe	112TRRC	03N03W36AAA1	34.83930278	-91.26305833	5/14/2025	178	18.8	22.8	18.29	21.3	8.35	0.51	11.00
Monroe	110ALVM	02S02W11DAC1	34.535825	-91.18349444	5/14/2025	164	5.1	9.67	2.53	9	8.80	2.57	14.20
Monroe	110ALVM	01N03W23BAC1	34.69048889	-91.2934	5/13/2025	173	9.19	12.12	11.25	18	7.84	2.68	18.64
Monroe	110ALVM	01N04W33BBB2	34.66653333	-91.44681111	5/15/2025	220	97.56		95.17	106.65		2.39	18.82
Monroe	112TRRC	04N02W30BBB1	34.94111111	-91.25683889	5/12/2025	185.16	10.82	3.48	7.27		7.34	3.55	
Phillips	110ALVM	03S04E02CAA1	34.45994444	-90.65576389	5/13/2025	179	13.3	15.98	6.09	12.6	7.20	7.21	0.70
Phillips	110ALVM	02S04E27AAC1	34.49210278	-90.66696944	5/13/2025	180	8.02	8.97	4.7	7.9	4.38	3.32	0.12
Phillips	110ALVM	02S02E33ACC1	34.46793162	-90.90145266	5/13/2025	185	23.36		16.8	23.5		6.56	1.76
Phillips	112TRRC	01S04E05DCD1	34.63502778	-90.69708333	5/13/2025	247	46.79	51.54	38	47.5	8.92	8.79	4.07
Phillips	110ALVM	01S02E09CBB1	34.62186944	-90.90946111	5/14/2025	185	11.12	13.28	8.11	12.1	6.62	3.01	5.49
Phillips	110ALVM	03S03E02DD1	34.45240556	-90.75074167	5/14/2025	174	21.46	21		22.92	0.46		7.44
Phillips	110ALVM	04S01E29CDC1	34.30769444	-91.02652778	5/14/2025	151	3.95	8.17	3.1	5.5	8.60	0.85	7.62
Phillips	110ALVM	02S01E23CA1	34.50113889	-90.97848333	5/13/2025	177	17.76	18.61	10.28	19.5	4.06	7.48	8.15
Phillips	110ALVM	01S01E20DDB1	34.59031944	-91.01558056	5/13/2025	184	23.95		18.02	28		5.93	14.73
Phillips	110ALVM	04S02E03AB1	34.38736111	-90.84894444	5/14/2025	166	20.35	20.15			0.20		
Phillips	110ALVM	01S02E32BBB1	34.57035278	-90.92749167	5/13/2025	197	26.06	29.16			7.96		
Phillips	110ALVM	02S03E15ACD1 near Barton	34.51943333	-90.77263333	5/14/2025	174	12.17						
Poinsett	110ALVM	12N02E26DAD1 PN3-SW26	35.64476667	-90.8397	6/10/2025	245	128.98	127.34	123.27	119.32	1.64	5.71	9.66

Poinsett	110ALVM	10N02E34BBB1 near Fisher	35.45716667	-90.87536111	6/10/2025	235.39	112.58	111.4	108.98	107.59	1.18	3.60	4.99
Poinsett	110ALVM	10N01E14CC1	35.48612936	-90.97050235	5/9/2025	231	105.47	104.15	100.38	100.7	1.32	5.09	4.77
Poinsett	110ALVM	11N06E34BBC1	35.54	-90.44611111	5/7/2025	217	10.94	16.44		10.92	9.44		0.02
Poinsett	110ALVM	11N07E22ADD1	35.56216111	-90.32291111	5/7/2025	221	24.07	26.11	20.4	25.8	6.30	3.67	7.98
Poinsett	110ALVM	12N01E07CDA1	35.68158056	-91.028125	5/9/2025	241	53.11	54.1	53.62	57.08	4.57	1.54	14.37
Poinsett	110ALVM	12N05E34ABA1	35.63482778	-90.54179167	5/7/2025	215	4.94	10.72		11.2	9.63		16.86
Poinsett	110ALVM	12N07E25CCD1	35.62781944	-90.30055	5/7/2025	225	10.57	19.13	13.25	17.63	10.20	2.86	17.93
Poinsett	110ALVM	12N03E01CBD1	35.69375	-90.72778889	5/9/2025	248	107.93	107.49	103.68		0.44	4.25	
Poinsett	110ALVM	10N03E20CC1	35.47780556	-90.80254722	5/8/2025	239	110.15	110	106.43		0.15	3.72	
Poinsett	110ALVM	11N05E26BDB1	35.5563889	-90.53316111	5/8/2025	213	7	12.7	4.05		9.50	2.95	
Poinsett	110ALVM	12N03E35AD1	35.62950448	-90.73133293	5/14/2025	249	110.94	110.84	108.38		0.10	2.56	
Poinsett	110ALVM	12N02E17AC1	35.67588889	-90.89583333	5/9/2025	250	117.67	117.59	115.9		0.08	1.77	
Poinsett	110ALVM	12N07E10CBB1	35.67891944	-90.34553889	5/7/2025	221	4.48	6.71	3.28		6.88	1.20	
Poinsett	110ALVM	10N07E28CBB1	35.45925008	-90.3578776	5/7/2025	217	27.66	29.1	26.58		5.28	1.08	
Poinsett	112TRRC	12N02E34CCC1	35.62457778	-90.87478333	5/9/2025	247	134.86	131.7	136.11		3.16	2.20	
Poinsett	110ALVM	12N02E26CCC1 SW-MW1	35.63791111	-90.85356111	5/9/2025	245	126.98	125.98			1.00		
Prairie	110ALVM	04N05W07CDC2	34.97839722	-91.57810556	5/15/2025	211	79.18	74.06		77.8	5.12		1.38
Prairie	110ALVM	04N07W03DCB1	34.99564722	-91.73651944	5/12/2025	256	90.2	90.84	89.62	89.46	3.48	0.58	0.74
Prairie	110ALVM	02N06W24CAA1	34.78083333	-91.5975	5/9/2025	231	118.03		117.22	118.53		0.81	3.53
Prairie	110ALVM	02N05W24BCA3	34.78340278	-91.492625	5/14/2025	223	88.57	87.4	88.35	90.34	1.17	0.22	8.33
Prairie	112TRRC	04N04W07ADC1	34.98064167	-91.45918611	5/14/2025	195	18.4	18	16.29	24.8	0.40	2.11	17.22
Prairie	110ALVM	02N04W02BCB1	34.82119722	-91.40516944	5/15/2025	189	19.17		12.18			6.99	
Prairie	110ALVM	03N05W03CB1	34.91036944	-91.52885	5/14/2025	200	69.4	70.2	65.2		3.80	4.20	
Prairie	110ALVM	02N05W35DB1	34.75071111	-91.50668889	5/9/2025	220	111.6	114.3	112.47		7.32	1.87	
Prairie	110ALVM	02N06W22BCC1 near Hazen	34.78133333	-91.64094444	5/29/2025	235.19	113.59		114.52			1.97	
Prairie	110ALVM	03N06W24BDB1	34.87268056	-91.60298056	5/9/2025	215	79.78		80.96			2.16	
Prairie	110ALVM	03N06W20CDD1	34.86117778	-91.66775833	5/9/2025	228	89.04	87.72			1.32		
Pulaski	110ALVM	01S10W19CDC1	34.60848889	-92.13073889	5/6/2025	239	20.14	19.3			0.84		
Pulaski	110ALVM	01S11W22AB1	34.61998889	-92.18160833	5/9/2025	233	20.02	20.99			4.44		
Randolph	110ALVM	18N02E27BA1	36.17910278	-90.85684722	5/7/2025	274.02	46.73	40.67	39.25	36	6.06	7.48	10.73
Randolph	110ALVM	18N01E11CCC1	36.20889722	-90.953825	5/7/2025	266.03	19.69	14.27	14.82	17	5.42	4.87	2.69
Randolph	110ALVM	18N02E03DAD1	36.22818889	-90.844425	5/7/2025	279	26.05	24.97	23.75		1.08	2.30	
Randolph	110ALVM	20N03E29AD1	36.34898889	-90.77784722	5/7/2025	287	4.06	7.67	13.96		8.22	3.19	
Randolph	110ALVM	18N01E29DB2	36.16582778	-90.99041389	5/7/2025	261	9.58	14.85			9.18		
St. Francis	110ALVM	05N03E20AAA2	35.03727778	-90.80022778	5/12/2025	251	104.6		101.97	97.7		2.63	6.90
St. Francis	110ALVM	05N01E27BBA1	35.02659167	-90.99132778	5/12/2025	209	80.06	79.02	75.77	74.6	1.04	4.29	5.46
St. Francis	110ALVM	04N01W17CBC1	34.95991944	-91.13391944	5/8/2025	206	66.15	65.74		63.72	0.41		2.43
St. Francis	112TRRC	04N03E21DAD1	34.93973611	-90.78203611	5/8/2025	236	65.19	69.3	53.19		8.48	12.00	
St. Francis	110ALVM	05N05E19DCA1	35.024325	-90.60843056	5/8/2025	205	31.7	32.24	27.37		2.97	4.33	
St. Francis	110ALVM	04N10E20DA1	34.94619722	-91.01358333	5/8/2025	204	78.3	78.6	76.15		2.14	2.15	
St. Francis	112TRRC	06N02E16CCC1	35.13591389	-90.90095	5/9/2025	218	74.79	83.9	74.29		10.27	0.50	
St. Francis	110ALVM	04N02E11AD1	34.97337222	-90.85353333	5/8/2025	213	53.67	54.2	53.46		2.91	0.21	
St. Francis	110ALVM	04N01W25DBD1	34.93126389	-91.04797222	5/8/2025	209	83.16	84.3	85.67		4.89	2.72	
St. Francis	110ALVM	06N05E22ACC1	35.12315556	-90.54783611	5/9/2025	200	36.15						
White	110ALVM	06N08W13ABA1	35.15214722	-91.80676944	5/9/2025	228	6.86	8.53	4.4	7.04	5.66	2.46	2.29
White	110ALVM	05N07W10CCC1	35.06672778	-91.74333333	5/6/2025	200	7.97	8.85	7.07	8.31	4.19	0.90	3.00
White	110ALVM	07N05W32BAB1	35.19350833	-91.56838611	5/6/2025	213.7	22.25	23.38		26	4.83		13.84
White	110ALVM	06N06W34AAB1	35.10654722	-91.63154167	5/6/2025	212.08	57.09		57.94			1.78	
White	112MRVAA	08N05W34CAC2 HS-02-EC	35.27098889	-91.52919444	5/6/2025	207	9.4	11.06			5.53		
Woodruff	110ALVM	08N01W06DDD1	35.341125	-91.12907778	5/7/2025	218	48.24	49.71	45.49	43.11	5.40	2.75	5.13
Woodruff	110ALVM	06N01W11AAB1	35.16222222	-91.065	5/7/2025	214	70.62	69.8	67.9	67.27	0.82	2.72	3.35
Woodruff	110ALVM	05N02W20DCB1	35.03546944	-91.23221944	5/6/2025	191	15.31	17.45		14.7	6.56		0.61
Woodruff	110ALVM	08N03W04BBB1	35.35777778	-91.32194444	5/7/2025	218	17.69	17.32		17.56	0.37		0.13
Woodruff	110ALVM	08N03W31AAD1	35.28211111	-91.34136667	5/6/2025	213	19.67	20.01	14.89	20.87	2.27	4.78	6.20
Woodruff	110ALVM	06N01W27BCC1	35.1138889	-91.09555556	5/7/2025	202	59.55	58.78	57.07		0.77	2.48	
Woodruff	112MRVAA	08N02W31 Patterson	35.26961111	-91.235025	6/10/2025	195.09	3.95	5.11			4.96		
Woodruff	112MRVAA	07N02W19CCA1 CR-03a-EC	35.21811111	-91.24273889	5/6/2025	191	3.47	5.2			5.79		

Appendix B
Sparta/Memphis Aquifer Water Level Monitoring Data

County	Aquifer Code	Station ID Name	Latitude	Longitude	Date	Land Surface Altitude (ft.)	2025 Depth to Water (ft.)	2024 Depth to Water (ft.)	2020 Depth to Water (ft.)	2015 Depth to Water (ft.)	1 Year Change ('24 to '25)	5 Year Change ('20 to '25)	10 Year Change ('15 to '25)
Arkansas	124SPRT	04S05W36DCC1	34.2978	-91.50101	4/29/2025	196	155.69		148.38			7.31	
Arkansas	124SPRT	03S04W02CCB1	34.4632	-91.41612	4/29/2025	202	148.44	145.4	141.81	145.78	3.04	6.63	2.66
Arkansas	124SPRT	03S05W02AAB1	34.4784	-91.50936	4/29/2025	210	165.27	160.6	161.51	175.2	4.67	3.76	9.93
Arkansas	124SPRT	04S01W28BAA1	34.3242	-91.13001	4/29/2025	190	99.74	101.28	98.88		1.54	0.86	
Arkansas	124SPRT	07S02W28ABA1	34.061	-91.23639	4/22/2025	181	99.12	102.31	98.62		3.19	0.50	
Arkansas	124SPRT	02S04W06CDB1	34.5532	-91.48036	4/29/2025	211	148.98		148.89	154.59		0.09	5.61
Arkansas	124SPRT	05S05W36DAA1	34.2125	-91.49629	5/8/2025	182	135.11		138.06			2.95	
Arkansas	124SPRT	07S03W06ABC1	34.1172	-91.37991	4/23/2025	188	127.8	123.54	135.39		4.26	7.59	
Arkansas	124SPRT	03S06W30BBD1	34.421	-91.70449	4/29/2025	192	152.69	148.33			4.36		
Arkansas	124SPRT	06S02W22CDB1	34.1511	-91.22529	4/22/2025	186	104.86	107.09			2.23		
Arkansas	124SPRT	08S02W09BCC1	34.0086	-91.24657	4/22/2025	174	95.34	98.43			3.09		
Ashley	124SPRT	15S07W32CDD1	33.3549	-91.85029	5/2/2025	191	135.82		134.4			1.42	
Ashley	124SPRT	17S09W15ACC1	33.226	-92.02123	5/2/2025	106	20.3	20.02	19.53		0.28	0.77	
Bradley	124SPRT	15S11W31DDD1 Hilo	33.3617	-92.2725	4/22/2025	129	92.9	93.26	95.81	99.2	0.36	2.91	6.30
Bradley	124SPRT	16S12W21CAA1	33.3109	-92.34788	4/28/2025	98	68.17	67.69			0.48		
Bradley	124SPRT	13S09W06ACB2	33.6131	-92.07134	5/1/2025	208	159.04	171.55			12.51		
Calhoun	124SPRT	15S13W32BCA1	33.375	-92.4725	4/21/2025	98	88.62			108.29			19.67
Calhoun	124SPRT	14S13W03CAB1	33.5293	-92.43095	5/1/2025	202	149.44	153.5			4.06		
Chicot	124SPRT	15S04W12DDA1	33.408	-91.45656	4/22/2025	128	65.52	65.17	61.65		0.35	3.87	
Cleveland	124SPRT	10S12W12BDD1	33.8592	-92.29538	4/29/2025	221	116.09	114.6			1.49		
Cleveland	124SPRT	09S11W11CDB1	33.9395	-92.21399	4/22/2025	239	158.32	158.01			0.31		
Cleveland	124SPRT	09S09W04BBD1	33.9722	-92.0436	4/22/2025	308	215	220.08			5.08		
Columbia	124SPRT	17S21W11DCC2 Magnolia	33.269	-93.24684	4/1/2025	302.06	264.6	263.71	264.62	266.69	0.89	0.02	2.09
Columbia	124SPRT	18S20W10CAA1	33.1818	-93.17104	4/30/2025	307	278.26			258.79			19.47
Columbia	124SPRT	17S22W22ABB1	33.2561	-93.36946	4/22/2025	319	131.48			132.73			1.25
Columbia	124SPRT	19S23W14BAB2	33.0987	-93.46455	4/22/2025	244	9.63	3.08			6.55		
Columbia	124SPRT	17S20W13BCD1	33.259	-93.1353	4/30/2025	339	315.69	311.72			3.97		
Columbia	124SPRT	16S20W18ACD1	33.348	-93.21039	4/30/2025	338	249.27	247.6			1.67		
Columbia	124SPRT	15S20W20CCB1	33.4148	-93.20417	4/29/2025	371	213.29	212			1.29		
Columbia	124SPRT	19S23W11DDB1	33.1014	-93.45614	4/22/2025	246	49.01						
Columbia	124SPRT	16S20W12CCD1	33.3536	-93.13239	4/24/2025	333	9.73						
Columbia	124SPRT	17S23W36CAA1	33.2206	-93.44111	4/24/2025	247	0.95						
Craighead	12405MP	14N05E34ADD1	35.7966	-90.57054	4/22/2025	232	15.81	16.94	13.42		1.13	2.39	
Craighead	12405MP	13N03E21DA1	35.7386	-90.76859	5/8/2025	249	103.66	103.91	102.82	103.45	0.25	0.84	0.21
Craighead	12405MP	14N04E28DBD1	35.8103	-90.6648	5/9/2025	254	59.06		58.96			0.10	
Craighead	12405MP	14N05E36CBC1	35.7976	-90.51691	4/22/2025	230	3.94	7	9.24		3.06	5.30	
Craighead	124SPRT	13N05E22BAD1	35.7462	-90.54483	4/22/2025	227	11.39	13.54		14.85	2.15		3.46
Craighead	12405MP	13N04E35BCD1	35.7129	-90.6394	6/3/2025	228.34	26.93	27.18			0.25		
Craighead	12405MP	15N03E13ABA1	35.9375	-90.71846	5/9/2025	329	-0.69	0.77			1.46		
Craighead	12405MP	16N07E33AAA1	35.974	-90.3469	4/14/2025	240.53	4.09						
Crittenden	124SPRT	06N07E01DAD2	35.1661	-90.29401	4/29/2025	210	24.35	25.13	19.16	24.39	0.78	5.19	0.04
Crittenden	12405MP	07N09E14BAC1	35.23	-90.10784	5/9/2025	216	23.16	26.45	18.41	26.83	3.29	4.75	3.67
Crittenden	12405MP	09N07E21BBB1 near Heafer	35.3948	-90.35851	6/10/2025	215.16	23.56	24.97	21.73		1.41	1.83	
Cross	12405MP	09N01E16CAC1	35.4014	-90.99743	5/9/2025	234	104.81	101.32	103.25		3.49	1.56	
Cross	12405MP	06N04E06ACA1	35.1679	-90.71048	4/29/2025	355	188.87	198.7	194.7		9.83	5.83	
Cross	12405MP	08N02E18BDB1	35.3189	-90.92735	5/7/2025	228	95.55	98.24			2.69		
Cross	12405MP	07N03E10ADC1	35.247	-90.76908	4/29/2025	302	187.77						
Dallas	124SPRT	08S16W18ACC1	34.0312	-92.7776	4/29/2025	251	14.62	4.18	1.59		10.44	13.03	
Dallas	124SPRT	10S15W18BCC1	33.8554	-92.68891	4/22/2025	328	77.2	76.32	73.45		0.88	3.75	
Dallas	124SPRT	08S15W34BDC1	33.983	-92.62503	4/29/2025	240	26.98	25.53	23.6		1.45	3.38	
Dallas	124SPRT	08S16W27DDD1	33.9935	-92.71866	4/29/2025	280	32.98	32.18	29.7		0.80	3.28	
Dallas	124SPRT	07S15W33DAC1	34.0674	-92.63123	4/29/2025	473	23.91	24.25	20.93		0.34	2.98	
Dallas	124SPRT	09S16W19CAA1	33.9349	-92.78366	4/22/2025	260	7.26	6.96	4.85		0.30	2.41	
Dallas	124SPRT	10S15W11DBB1	33.8685	-92.60889	4/22/2025	291	56.54	55.74	54.57		0.80	1.97	

Dallas	124SPRT	07S16W20CAB1	34.0987	-92.76252	4/29/2025	322	25.73	24.98	25.32		0.75	0.41	
Dallas	124SPRT	09S13W35CCD1	33.8859	-92.40372	4/22/2025	201	70.43	70.2	70.19		0.23	0.24	
Dallas	124SPRT	10S13W34ACA2	33.8082	-92.416	4/22/2025	272	142.4	144.8	148.74		2.40	6.34	
Dallas	124SPRT	10S14W27CDB1	33.8188	-92.52722	4/22/2025	271	28.09	12.84			15.25		
Desha	124SPRT	09S04W28DD1	33.886	-91.50186	4/23/2025	165	111.87		113.4			1.53	
Drew	124SPRT	13S05W36ACB1	33.5317	-91.56789	4/22/2025	165	92.23		91.23			1.00	
Drew	124SPRT	12S06W308BD1	33.6353	-91.76197	4/22/2025	271	204.09	205.97	211.47		1.88	7.38	
Drew	124SPRT	11S06W11DBC1	33.7671	-91.68955	4/23/2025	204	149.13						
Grant	124SPRT	03S15W26DAA1	34.4335	-92.57973	4/29/2025	337	9.85	6.19	4.77		3.66	5.08	
Grant	124SPRT	06S15W26ACA1	34.1728	-92.59378	4/29/2025	280	62.2	62.5	59.33		0.30	2.87	
Grant	124SPRT	03S13W12AAA1	34.4793	-92.35173	4/29/2025	362	129.29	129.21	126.75		0.08	2.54	
Grant	124SPRT	05S13W03CAA1	34.3122	-92.40013	4/30/2025	259	76.59		84.62			8.03	
Grant	124SPRT	06S11W05ACD1	34.228	-92.23695	4/30/2025	273	179.4	184.2	193.14		4.80	13.74	
Grant	124SPRT	05S13W07ADB1	34.3028	-92.44715	4/30/2025	270	78.8	77.98			0.82		
Grant	124SPRT	05S14W06DCC1	34.3118	-92.55741	4/30/2025	293	81.1	81.5			0.40		
Greene	124SPRT	17N06E36BD1	36.0542	-90.39561	4/22/2025	248	21.29	22.46	53.31		1.17	32.02	
Hot Spring	124SPRT	05S16W35ACA1	34.2499	-92.69753	4/30/2025	342	35.64	34.79			0.85		
Jefferson	124SPRT	04S11W14BAD1	34.3722	-92.16669	4/22/2025	400	300.63	298.5	296.14		2.13	4.49	
Jefferson	124SPRT	03S10W27AAD1	34.4168	-92.07616	4/29/2025	222	118.36		118.84			0.48	
Jefferson	124SPRT	03S09W23BBD1	34.4408	-91.9536	4/29/2025	224	160		163.7			3.70	
Jefferson	124SPRT	07S10W24CAC1	34.0969	-92.07245	4/22/2025	311	277	258.4			18.60		
Jefferson	124SPRT	05S08W30ADB1 near Pine B	34.2479	-91.91117	5/29/2025	219.15	275.6	270.86			4.74		
Jefferson	124SPRT	05S08W30CBA1	34.2462	-91.92404	4/29/2025	207	272.68	270.12			2.56		
Jefferson	124SPRT	06S08W25ADC1	34.1736	-91.85449	4/29/2025	203.48	212.98	212.03			0.95		
Jefferson	124SPRT	05S10W16DBD1	34.2764	-92.09289	4/22/2025	301	269.36	270			0.64		
Jefferson	124SPRT	06S10W23ACD1	34.1877	-92.08543	4/22/2025	233	210.4	211.7			1.30		
Lafayette	124SPRT	18S23W29ACC1	33.153	-93.51091	4/30/2025	250	15.33	12.89			2.44		
Lafayette	124SPRT	16S23W12CAD1	33.3617	-93.43574	4/29/2025	319	55.23	54.5			0.73		
Lafayette	124SPRT	16S24W26AAC1	33.3306	-93.55082	4/30/2025	267	59.42	59.21			0.21		
Lafayette	124SPRT	20S23W05ADB1	33.0398	-93.51002	4/22/2025	242	35.93	35.84			0.09		
Lafayette	124SPRT	17S23W19ACC1	33.2554	-93.52434	4/30/2025	291	51.95	51.96			0.01		
Lee	124SPRT	02N01E10CAD1	34.7954	-90.99021	5/1/2025	201	55.9	62.4			6.50		
Lee	124SPRT	01N04E09CDD1	34.7024	-90.68897	5/1/2025	204	69.57						
Lincoln	124SPRT	07S07W30CDC1	34.0789	-91.84524	4/22/2025	202	175.49	170.85	172.99		4.64	2.50	
Lonoke	12405MP	03N08W22DAD3	34.8678	-91.84	6/3/2025	235	104.09	103.51	102.08		0.58	2.01	
Lonoke	124SPRT	02S08W16BDA1	34.541	-91.87569	4/29/2025	215	120.66	121.21	118.7		0.55	1.96	
Lonoke	124SPRT	02N08W28BC2	34.7722	-91.87823	5/2/2025	233	125.83	126	126.07		0.17	0.24	
Lonoke	124SPRT	02N07W06ACD1	34.8275	-91.79362	5/2/2025	242	128.4	126.95	129.94	125.9	1.45	1.54	2.50
Lonoke	124SPRT	02S09W15BBB2	34.5463	-91.97361	4/29/2025	227	72.73	72			0.73		
Miller	124SPRT	19S27W10BBA1	33.1222	-93.895	4/22/2025	323	14.64	6.59			8.05		
Miller	124SPRT	17S27W22DBB2	33.261	-93.88702	4/22/2025	297	133.84	133.6			0.24		
Monroe	124SPRT	01N03W14CCB1	34.6955	-91.30031	4/29/2025	173	69.6	62.7	62.63		6.90	6.97	
Monroe	124SPRT	03N02W26DAB1	34.8451	-91.17378	4/29/2025	195	53.14	53.32	49.44		0.18	3.70	
Monroe	12405MP	04N02W28DD4	34.9264	-91.20576	4/29/2025	192	33.46	33.86	30.96		0.40	2.50	
Monroe	124SPRT	01N01W15DBC2	34.6945	-91.09559	5/1/2025	185	63.71		62.09			1.62	
Ouachita	124SPRT	15S19W21CDD2 Stephens	33.4106	-93.07553	4/29/2025	269	183.43	183.67	183.94	187.38	0.24	0.51	3.95
Ouachita	124SPRT	12S15W09BBA1	33.7065	-92.65623	4/29/2025	213	46.87	48.37		39.08	1.50		7.79
Ouachita	124SPRT	11S18W20AAA1	33.7706	-92.96648	5/1/2025	333	43.69	43.84		43.1	0.15		0.59
Ouachita	124SPRT	13S18W06BBA1	33.6389	-93.00197	5/1/2025	281	113.26	112.94		114.83	0.32		1.57
Ouachita	124SPRT	14S17W19DBB1	33.5006	-92.89596	4/29/2025	259	6.94	10.44		8.78	3.50		1.84
Ouachita	124SPRT	14S19W29ABB1	33.4948	-93.08706	4/29/2025	281	85.04	84.78		89.86	0.26		4.82
Ouachita	124SPRT	15S18W36ADD1	33.3863	-92.91002	4/29/2025	160	81.95	82.52		89.23	0.57		7.28
Ouachita	124SPRT	13S16W28ADD1	33.5712	-92.7474	4/29/2025	106	11.54	11.25		21.19	0.29		9.65
Ouachita	124SPRT	15S16W23DAC1	33.4047	-92.7206	4/29/2025	170	107.15	107.9		118	0.75		10.85
Ouachita	124SPRT	11S15W27ABD1	33.7447	-92.62377	4/29/2025	222	19.64	23.35		68.63	3.71		48.99
Ouachita	124SPRT	15S16W07DDC1	33.4314	-92.7877	4/29/2025	228	12.64	8.84			3.80		

Ouachita	124SPRT	14S17W03CBA1	33.5428	-92.84861	4/29/2025	138	12.39	11.52				0.87		
Ouachita	124SPRT	12S19W35BDD1	33.6503	-93.02944	5/1/2025	350	155.71	155.44				0.27		
Ouachita	124SPRT	11S17W14CAC1	33.7754	-92.82429	5/1/2025	145	18.25	18.08				0.17		
Ouachita	124SPRT	11S17W36CCA1	33.7281	-92.8095	5/1/2025	133	3.59	3.88				0.29		
Ouachita	124SPRT	14S19W08ADD1	33.5328	-93.08033	4/24/2025	312	15.91							
Ouachita	124SPRT	12S19W30AAA1	33.6708	-93.09136	4/25/2025	258	24.52							
Ouachita	124SPRT	15S19W30DBD1	33.3993	-93.10561	4/24/2025	254	33.51							
Phillips	124SPRT	01S02E32DDC1	34.5569	-90.91514	5/1/2025	210	79.29	82.82				3.53		
Phillips	124SPRT	04S02E25CCC1	34.3072	-90.85669	4/29/2025	166	35.67							
Phillips	124SPRT	02S03E27BAD1	34.4907	-90.77783	4/30/2025	171	27.77							
Phillips	124SPRT	01S03E34DDC1	34.556	-90.7725	4/30/2025	212	64.33							
Phillips	124SPRT	02S05E16BCB2	34.5178	-90.59032	5/1/2025	187	31.57							
Poinsett	12405MP	10N01E12BDC1	35.5073	-90.94155	4/30/2025	234	119.66	126.17	110.65			6.51	9.01	
Poinsett	12405MP	11N02E11BDC1 near Weiner	35.6015	-90.85194	6/10/2025	244.31	127.87	127.31	122.8			0.56	5.07	
Prairie	124SPRT	01N06W02ABB1	34.7451	-91.61693	5/2/2025	223.02	118.43	134.45	113.38	120.29		16.02	5.05	1.86
Prairie	124SPRT	01S06W12BAB2	34.6406	-91.60361	5/29/2025	228	157.47		155.34	167.48			2.13	10.01
Prairie	12405MP	02N06W24CAA2 at Hazen S	34.7808	-91.5975	5/9/2025	231.86	117.08	117.64	116.7			0.56	0.38	
Prairie	124SPRT	03N05W03ADA2	34.9143	-91.51181	5/2/2025	206	55.88	61.47	55.82			5.59	0.06	
Prairie	124SPRT	01S05W20ABB1	34.6111	-91.56441	4/29/2025	220	151.46			164.4				12.94
Prairie	124SPRT	02N04W19ACB1	34.7803	-91.4671	5/2/2025	209	76.5	78.33				1.83		
Pulaski	124SPRT	02S11W29AAA1	34.5209	-92.20698	4/22/2025	244	30.72	26.4				4.32		
St. Francis	124SPRT	03N01W33CDD1	34.9129	-91.10947	5/1/2025	208	77.81	78.54	72.84			0.73	4.97	
St. Francis	12405MP	05N01E19BDB1	35.0404	-91.03929	4/30/2025	210	84.9							
Union	124SPRT	19S12W13AAA1	33.0698	-92.28799	4/29/2025	191	188.43	169.86	163.06	164.47		18.57	25.37	23.96
Union	124SPRT	17S13W31BAC1	33.2	-92.48769	4/23/2025	217	251.01	245.57	231.5	219.98		5.44	19.51	31.03
Union	124SPRT	18S12W33CBC1 Strong	33.1051	-92.35374	4/29/2025	113	119.89	119.15	113.66	112.69		0.74	6.23	7.20
Union	124SPRT	19S10W16CBB1	33.0581	-92.1511	4/29/2025	82	78.19	79.55	77.8	81.9		1.36	0.39	3.71
Union	124SPRT	17S15W31DCB1	33.197	-92.69084	4/1/2025	253.16	94.17	94.31	97.32			0.14	3.15	
Union	124SPRT	19S18W14ADA1	33.081	-92.93553	4/22/2025	259	181.04	181.31	184.75	188.35		0.27	3.71	7.31
Union	124SPRT	18S16W11DAC1	33.1698	-92.72121	4/22/2025	273	332.68	322.26	338.9	356.99		10.42	6.22	24.31
Union	124SPRT	16S16W02ABC1 Smackover	33.3683	-92.72461	4/2/2025	110.83	124.17	124.89	132.9	146.19		0.72	8.73	22.02
Union	124SPRT	16S14W15CAB1	33.3289	-92.53836	4/28/2025	93	98.72	99	108.64	130.31		0.28	9.92	31.59
Union	124SPRT	18S17W22BDD1 McKinnon	33.1489	-92.84902	4/1/2025	283	289.1	290.74	300.65	318.11		1.64	11.55	29.01
Union	124SPRT	17S14W22BAB1 Union School	33.2318	-92.54005	4/1/2025	205.42	232.3	236.3	245.55	267.06		4.00	13.25	34.76
Union	124SPRT	17S17W25DBA2 Airport	33.2157	-92.81045	4/1/2025	250.81	271.81	274.41	285.73	310.22		2.60	13.92	38.41
Union	124SPRT	18S15W03DAB2 Welcome Cen	33.1853	-92.63389	4/1/2025	239.98	278.12	279.81	295.28			1.69	17.16	
Union	124SPRT	17S15W18DBB1 Monsanto	33.2442	-92.69145	4/1/2025	182.23	223.2	226.86	240.45	275.48		3.66	17.25	52.28
Union	124SPRT	17S15W28DBA1 Eld 8	33.2128	-92.65272	4/1/2025	228.08	268.02	270.16	287.29	316.27		2.14	19.27	48.25
Union	124SPRT	18S13W16ADD1	33.1529	-92.44331	4/23/2025	238	162.74	166.32	191.21	165.23		3.58	28.47	2.49
Union	124SPRT	19S16W35DDC1	33.0191	-92.72376	4/29/2025	173	178.37	194.4	208.25	221.08		16.03	29.88	42.71
Union	124SPRT	16S18W34ABC2	33.3017	-92.95248	4/22/2025	250	187.72	188.2		194.6		0.48		6.88
Union	124SPRT	17S17W30DCD1	33.2159	-92.89876	4/22/2025	276	271.93	269.25		284.18		2.68		12.25
Union	124SPRT	16S15W20DAA1	33.3166	-92.6661	4/28/2025	189	210.81	209.7		251.41		1.11		40.60
Union	124SPRT	18S15W33ADA1	33.1165	-92.64958	4/29/2025	253	286.98	284.3		339.11		2.68		52.13
Woodruff	12405MP	05N02W31DCB3	35.0075	-91.24886	5/12/2025	194	16.22		9.68				6.54	
Woodruff	12405MP	05N01W17DBB1	35.053	-91.1242	4/28/2025	208	50.79	50.65	47.64			0.14	3.15	
Woodruff	12405MP	05N01W11ABA1	35.0738	-91.06866	4/28/2025	210	66.78	66.4	64.04			0.38	2.74	

Appendix C
Alluvial Aquifer Mann-Kendall/Sen's Slope Results
2010–2025

Station ID Name	Latitude	Longitude	County Name	Tau	z-statistic	p	slope (ft/yr)	water level trend
340240091221601	34.04438	-91.37322	Arkansas County	-0.43956	-2.138257	0.032496	-0.15	increasing
340740091211501	34.12778	-91.35417	Arkansas County	-0.563636	-2.335497	0.019517	-0.79	increasing
340857091181101	34.14933	-91.32022	Arkansas County	-0.564103	-2.623382	0.008706	-0.78	increasing
341137091195101	34.19333	-91.33162	Arkansas County	-0.55	-2.926464	0.003428	-0.63	increasing
341311091282001	34.2211	-91.47273	Arkansas County	-0.824176	-4.051122	5.10E-05	-0.44	increasing
341558091202501	34.26661	-91.34117	Arkansas County	-0.714286	-2.35064	0.018741	-0.62	increasing
341753091094701	34.29818	-91.16371	Arkansas County	-0.714286	-2.35064	0.018741	-2.78	increasing
342312091242601	34.387	-91.40658	Arkansas County	-0.4	-2.031463	0.042208	-0.15	increasing
342525091292201	34.42358	-91.48917	Arkansas County	-0.490909	-2.024097	0.04296	-1.85	increasing
342630091300701	34.44167	-91.50194	Arkansas County	-0.6	-2.325511	0.020045	-0.25	increasing
342649091251916	34.46473	-91.42094	Arkansas County	-0.636364	-2.811474	0.004932	-0.20	increasing
342738091213201	34.46036	-91.35911	Arkansas County	-0.419048	-2.130559	0.033126	-0.15	increasing
342752091322701	34.46461	-91.54103	Arkansas County	-0.637363	-3.125145	0.001777	-0.25	increasing
342753091251601	34.46481	-91.42107	Arkansas County	-0.511111	-1.96774	0.049098	-0.18	increasing
342831091245401	34.47597	-91.41606	Arkansas County	-0.417582	-2.028603	0.042499	-0.10	increasing
330310091291301	33.05394	-91.49461	Ashley County	-0.469697	-2.06203	0.039205	-0.69	increasing
330624091552801	33.10689	-91.92457	Ashley County	-0.846154	-4.160612	3.17E-05	-0.13	increasing
331252091295401	33.21458	-91.49836	Ashley County	-0.538462	-2.501364	0.012372	-0.95	increasing
331252091310801	33.21391	-91.51945	Ashley County	-0.494505	-2.408775	0.016006	-0.85	increasing
332925091270401	33.50308	-91.43889	Chicot County	-0.487179	-2.257329	0.023988	-0.56	increasing
361258090110201	36.21561	-90.19228	Clay County	-0.490909	-2.036477	0.041702	-0.20	increasing
354638090485501	35.7774	-90.81582	Craighead County	-0.927273	-3.892495	9.92E-05	-0.27	increasing
354648090190301	35.77624	-90.3177	Craighead County	-0.564103	-2.623382	0.008706	-0.50	increasing
354801090512501	35.80025	-90.85699	Craighead County	-0.607143	-1.994812	0.046063	-0.17	increasing
354833090492101	35.81006	-90.82138	Craighead County	-0.927273	-3.892495	9.92E-05	-0.24	increasing
354845090492501	35.81257	-90.82361	Craighead County	-0.757576	-3.360055	0.000779	-0.34	increasing
355752090265601	35.96158	-90.45117	Craighead County	-0.474359	-2.211462	0.027004	-0.60	increasing
350058090203301	35.0165	-90.34163	Crittenden County	-0.435897	-2.013293	0.044084	-0.56	increasing
351043090235901	35.17831	-90.39971	Crittenden County	-0.45	-2.386193	0.017024	-0.26	increasing
351630090193301	35.275	-90.32583	Crittenden County	-0.461538	-2.135311	0.032736	-0.32	increasing
352158090232301	35.36663	-90.39071	Crittenden County	-0.485714	-2.474358	0.013348	-0.17	increasing
352235090290401	35.37328	-90.49325	Crittenden County	-0.611111	-2.189401	0.028568	-0.95	increasing
352255090215901	35.38222	-90.36611	Crittenden County	-0.6	-2.325511	0.020045	-0.43	increasing
352448090192501	35.41322	-90.32351	Crittenden County	-0.538462	-2.627755	0.008595	-0.18	increasing
352151090351101	35.36404	-90.5867	Cross County	-0.615385	-2.867418	0.004138	-0.41	increasing
334130091265101	33.70784	-91.44753	Desha County	-0.642857	-2.103205	0.035448	-0.52	increasing
335500091192201	33.9168	-91.32287	Desha County	-0.6	-2.491197	0.012731	-0.86	increasing
333040091321501	33.52606	-91.55993	Drew County	-0.509091	-2.108346	0.035001	-0.67	increasing
360027090272801	36.00853	-90.45542	Greene County	-0.461538	-2.135311	0.032736	-0.59	increasing
360431090391701	36.07528	-90.65472	Greene County	-0.636364	-2.646896	0.008123	-0.79	increasing
361418090452601	36.23845	-90.75329	Greene County	-0.648352	-3.184763	0.001449	-0.49	increasing
340901091564601	34.14959	-91.94646	Jefferson County	-0.433333	-2.296148	0.021667	-0.33	increasing
335841091365101	33.97762	-91.61353	Lincoln County	-0.474359	-2.200419	0.027777	-0.79	increasing
340411091452901	34.0696	-91.7578	Lincoln County	-0.636364	-2.811474	0.004932	-0.70	increasing
343002091515001	34.50082	-91.86382	Lonoke County	-0.516484	-2.518265	0.011793	-0.69	increasing
343013092011401	34.50398	-92.02111	Lonoke County	-0.607143	-1.994812	0.046063	-0.22	increasing
343929092021301	34.65746	-92.03749	Lonoke County	-0.428571	-2.177435	0.029448	-0.27	increasing
345553091512501	34.93128	-91.85694	Lonoke County	-0.666667	-2.397916	0.016489	-1.41	increasing
342901090544401	34.48245	-90.91233	Phillips County	-0.563636	-2.335497	0.019517	-1.08	increasing
343350090552601	34.56483	-90.92554	Phillips County	-0.607143	-1.994812	0.046063	-1.89	increasing
352734090205301	35.45925	-90.35788	Poinsett County	-0.555556	-2.187854	0.02868	-0.33	increasing
353045090250101	35.51097	-90.41296	Poinsett County	-0.857143	-2.845512	0.004434	-1.29	increasing
354042090202201	35.67892	-90.34554	Poinsett County	-0.555556	-2.002776	0.045201	-0.73	increasing
354051091014201	35.68158	-91.02813	Poinsett County	-0.466667	-2.375384	0.017531	-0.21	increasing
343521091263001	34.58963	-91.44159	Prairie County	-0.593407	-2.905837	0.003663	-0.19	increasing
343826091361302	34.64056	-91.60361	Prairie County	-0.961538	-4.523083	6.09E-06	-0.56	increasing
344653091382701	34.78133	-91.64094	Prairie County	-0.777778	-2.814945	0.004879	-0.11	increasing
344659091293701	34.7834	-91.49263	Prairie County	-0.727273	-3.22291	0.001269	-0.31	increasing
350745090283900	35.12974	-90.47811	St. Francis County	-0.818182	-3.425395	0.000614	-0.39	increasing
350623091375201	35.10655	-91.63154	White County	-0.709091	-2.958296	0.003093	-0.59	increasing
350821091463401	35.13958	-91.77631	White County	-0.604396	-2.956224	0.003114	-0.51	increasing
330405091381501	33.06853	-91.63753	Ashley County	0.6	2.325511	0.020045	1.18	decreasing
331015091522401	33.17083	-91.87364	Ashley County	0.472527	2.299285	0.021489	0.16	decreasing

Note: a decreasing slope indicates a decreasing depth to water, which is equivalent to an increasing water level trend

331049091413601	33.18039	-91.69355	Ashley County	0.666667	2.94862	0.003192	0.13	decreasing
331943091444001	33.32815	-91.74396	Ashley County	0.711111	2.783882	0.005371	0.20	decreasing
331818091233401	33.305	-91.39278	Chicot County	0.484848	2.125749	0.033524	0.18	decreasing
332223091191601	33.37405	-91.32218	Chicot County	0.589744	2.7454	0.006044	0.44	decreasing
354308090475201	35.71947	-90.79561	Craighead County	0.955556	3.756594	0.000172	0.60	decreasing
354319090494901	35.72239	-90.83095	Craighead County	0.555556	1.980887	0.047604	0.33	decreasing
355244090581601	35.87925	-90.97175	Craighead County	0.67033	3.294582	0.000986	0.35	decreasing
350903090515601	35.15978	-90.86058	Cross County	0.75	2.725541	0.00642	0.77	decreasing
351045090481001	35.17925	-90.80286	Cross County	0.484848	2.125749	0.033524	0.53	decreasing
351134090540501	35.19391	-90.90255	Cross County	0.733333	2.862167	0.004208	0.57	decreasing
351501090570701	35.25035	-90.95147	Cross County	0.802198	3.941632	8.09E-05	0.61	decreasing
351508090511301	35.25222	-90.85361	Cross County	0.818182	3.425395	0.000614	0.41	decreasing
351520091005201	35.25487	-91.01363	Cross County	0.722222	2.60643	0.009149	0.61	decreasing
351548091013501	35.2632	-91.02626	Cross County	1	3.649002	0.000263	0.84	decreasing
352204091000201	35.36743	-91.00017	Cross County	0.807692	3.78961	0.000151	0.65	decreasing
352411090473101	35.40244	-90.79044	Cross County	0.555556	1.980887	0.047604	1.60	decreasing
352505090565301	35.41806	-90.94806	Cross County	0.944444	3.440488	0.000581	0.84	decreasing
352615090591401	35.43811	-90.987	Cross County	0.714286	2.35064	0.018741	1.10	decreasing
334415091241401	33.74428	-91.40939	Desha County	0.487179	2.265778	0.023465	0.35	decreasing
334453091165801	33.74692	-91.27783	Desha County	0.692308	3.404402	0.000663	0.25	decreasing
334916091182501	33.82111	-91.30694	Desha County	0.6	2.491197	0.012731	0.30	decreasing
353323091031201	35.55848	-91.05674	Jackson County	0.769231	3.599524	0.000319	0.38	decreasing
360415090495201	36.07283	-90.83331	Lawrence County	0.606061	2.674329	0.007488	0.42	decreasing
344628091002401	34.77558	-91.00126	Lee County	0.555556	1.980887	0.047604	0.62	decreasing
344630090581702	34.77548	-90.97233	Lee County	0.818182	3.425395	0.000614	1.02	decreasing
344828091033001	34.80769	-91.05822	Lee County	0.672727	2.802596	0.005069	0.52	decreasing
345015090542901	34.83712	-90.90827	Lee County	0.527273	2.179797	0.029273	0.71	decreasing
345206090594701	34.86811	-90.99611	Lee County	0.78022	3.832142	0.000127	0.48	decreasing
345253090432401	34.87994	-90.72017	Lee County	0.6	2.491197	0.012731	1.50	decreasing
343238091452401	34.54624	-91.75685	Lonoke County	0.833333	3.023459	0.002499	0.67	decreasing
344725092032101	34.79035	-92.05615	Lonoke County	0.848485	3.77149	0.000162	0.59	decreasing
344957091433201	34.83254	-91.72559	Lonoke County	0.5	2.322664	0.020197	0.40	decreasing
345129091455801	34.85793	-91.76622	Lonoke County	1	4.203894	2.62E-05	0.73	decreasing
345402091502201	34.90029	-91.83966	Lonoke County	0.777778	3.041052	0.002358	0.58	decreasing
345407091463801	34.90184	-91.7773	Lonoke County	0.854545	3.581095	0.000342	0.64	decreasing
345413091493401	34.90353	-91.82618	Lonoke County	0.893939	3.986592	6.70E-05	0.72	decreasing
345415091505301	34.90407	-91.84798	Lonoke County	0.822222	3.219938	0.001282	0.79	decreasing
345427091524801	34.90749	-91.87996	Lonoke County	0.944444	3.440488	0.000581	0.88	decreasing
345430091512301	34.90829	-91.85644	Lonoke County	0.927273	3.892495	9.92E-05	0.77	decreasing
345519091505401	34.92179	-91.84821	Lonoke County	0.955556	3.756594	0.000172	0.90	decreasing
345541091491401	34.92793	-91.82067	Lonoke County	0.644444	2.504396	0.012266	0.66	decreasing
345548091512501	34.92953	-91.85708	Lonoke County	0.866667	3.398823	0.000677	1.16	decreasing
345559091514101	34.93294	-91.86147	Lonoke County	0.890909	3.736795	0.000186	0.77	decreasing
345614091522501	34.93738	-91.8737	Lonoke County	0.854545	3.581095	0.000342	0.71	decreasing
345757091515401	34.96591	-91.86501	Lonoke County	0.944444	3.440488	0.000581	0.53	decreasing
343615091063201	34.60384	-91.10932	Monroe County	0.545455	2.26452	0.023542	0.71	decreasing
344645091091001	34.77923	-91.15346	Monroe County	0.538462	2.501364	0.012372	0.44	decreasing
352726090523101	35.45717	-90.87536	Poinsett County	1	4.457216	8.30E-06	0.72	decreasing
352732091120301	35.49453	-90.86928	Poinsett County	0.763636	3.201562	0.001367	1.00	decreasing
352906090573701	35.48613	-90.9705	Poinsett County	0.692308	3.233471	0.001223	0.71	decreasing
352922091000501	35.48941	-91.00149	Poinsett County	0.822222	3.219938	0.001282	0.56	decreasing
352947090440701	35.49645	-90.7347	Poinsett County	0.785714	2.598076	0.009375	0.77	decreasing
352949090502401	35.49681	-90.84064	Poinsett County	0.833333	3.023459	0.002499	1.27	decreasing
353338090565401	35.56134	-90.94821	Poinsett County	0.692308	3.394183	0.000688	0.72	decreasing
353352090552201	35.56531	-90.92633	Poinsett County	0.755556	2.963487	0.003042	1.11	decreasing
353435091002401	35.57683	-91.00267	Poinsett County	0.666667	3.111453	0.001862	0.52	decreasing
353546090445701	35.59603	-90.74904	Poinsett County	0.589744	2.7454	0.006044	0.66	decreasing
353634090500101	35.60857	-90.8354	Poinsett County	1	3.93548	8.30E-05	0.74	decreasing
353724090523001	35.62458	-90.87478	Poinsett County	0.622222	2.424672	0.015322	2.10	decreasing
353831090502401	35.64477	-90.8397	Poinsett County	1	3.649002	0.000263	1.34	decreasing
354035090534601	35.67589	-90.89583	Poinsett County	0.928571	3.092948	0.001982	0.64	decreasing
354154090432901	35.69375	-90.72779	Poinsett County	0.727273	3.22291	0.001269	1.05	decreasing
345658091454101	34.95015	-91.76247	Prairie County	0.939394	4.182925	2.88E-05	0.35	decreasing
345709091460701	34.95256	-91.76869	Prairie County	0.890909	3.736795	0.000186	0.41	decreasing

345934091401801	34.99271	-91.67166	Prairie County	0.555556	2.146625	0.031823	0.16	decreasing
345945091441001	34.99565	-91.73652	Prairie County	0.725275	3.563762	0.000366	0.18	decreasing
345534091033101	34.92621	-91.05873	St. Francis County	0.611111	2.213594	0.026857	0.91	decreasing
345536091063401	34.92642	-91.10953	St. Francis County	0.428571	2.080306	0.037497	0.23	decreasing
345701090563301	34.95037	-90.94262	St. Francis County	0.928571	3.092948	0.001982	0.84	decreasing
345718091052901	34.95525	-91.09624	St. Francis County	0.785714	2.598076	0.009375	1.18	decreasing
345735091080101	34.95992	-91.13392	St. Francis County	0.777778	3.041052	0.002358	0.53	decreasing
350135090592801	35.02659	-90.99133	St. Francis County	0.824176	4.051122	5.10E-05	0.68	decreasing
350157090543701	35.03247	-90.91032	St. Francis County	0.747253	3.673416	0.000239	0.43	decreasing
350303090594201	35.05071	-90.99511	St. Francis County	0.695238	3.563076	0.000367	0.42	decreasing
350842090524701	35.14498	-90.87981	St. Francis County	0.794872	3.721542	0.000198	0.56	decreasing
350642091054901	35.11139	-91.09556	Woodruff County	0.866667	3.398823	0.000677	0.51	decreasing
350944091035401	35.16222	-91.065	Woodruff County	0.878788	3.908635	9.28E-05	0.50	decreasing
340040091150601	34.0114	-91.25155	Arkansas County	-0.205128	-0.915133	0.360122	-0.87	no trend
340146091220101	34.02985	-91.36736	Arkansas County	-0.142857	-0.656939	0.51122	-0.11	no trend
340440091231201	34.07647	-91.3878	Arkansas County	-0.242424	-1.028588	0.303673	-0.11	no trend
340529091154801	34.09162	-91.26073	Arkansas County	-0.410256	-1.891276	0.058588	-0.79	no trend
340622091232401	34.10701	-91.39088	Arkansas County	0.5	1.608333	0.107762	0.72	no trend
340704091145101	34.11865	-91.24775	Arkansas County	-0.018182	0	1	-0.12	no trend
340855091115901	34.14795	-91.2018	Arkansas County	-0.571429	-1.855769	0.063487	-1.32	no trend
341227091130101	34.20789	-91.21731	Arkansas County	-0.333333	-1.252198	0.210498	-0.62	no trend
341549091241101	34.26365	-91.40344	Arkansas County	-0.357143	-1.113461	0.26551	-0.48	no trend
341550091072801	34.26433	-91.12486	Arkansas County	-0.230769	-1.037151	0.299665	-0.53	no trend
341556091293101	34.26538	-91.49211	Arkansas County	0.571429	1.855769	0.063487	0.20	no trend
341624091204601	34.27322	-91.34617	Arkansas County	-0.5	-1.772373	0.076333	-0.34	no trend
341835091243701	34.31169	-91.41452	Arkansas County	-0.153846	-0.671098	0.502158	-0.35	no trend
342012091091901	34.33659	-91.15537	Arkansas County	-0.571429	-1.855769	0.063487	-0.52	no trend
342101091205701	34.35052	-91.34948	Arkansas County	-0.318681	-1.532857	0.125311	-0.21	no trend
342416091365101	34.40317	-91.61435	Arkansas County	-0.252747	-1.204388	0.22844	-0.23	no trend
342448091125201	34.41325	-91.21431	Arkansas County	0.102564	0.427062	0.669334	0.06	no trend
342455091194201	34.4152	-91.32891	Arkansas County	-0.085714	-0.395897	0.692181	-0.02	no trend
342515091421001	34.42095	-91.70292	Arkansas County	-0.155556	-0.536656	0.591505	-0.31	no trend
343213091312701	34.53702	-91.52394	Arkansas County	-0.155556	-0.536656	0.591505	-0.11	no trend
343232091241701	34.54247	-91.40423	Arkansas County	-0.358974	-1.64724	0.099509	-0.30	no trend
330139091361501	33.02744	-91.60444	Ashley County	-0.254545	-1.015129	0.310044	-0.58	no trend
330323091371801	33.05651	-91.62179	Ashley County	-0.309091	-1.245598	0.212912	-0.70	no trend
330404091460701	33.06766	-91.76887	Ashley County	0.065934	0.274136	0.78398	0.02	no trend
330658091285601	33.11428	-91.49478	Ashley County	0.060606	0.205718	0.837011	0.06	no trend
330712091355501	33.11708	-91.59853	Ashley County	0.288889	1.082004	0.279251	0.56	no trend
330841091353801	33.13794	-91.59369	Ashley County	-0.036364	-0.078087	0.937759	-0.09	no trend
331528091301001	33.25808	-91.50275	Ashley County	-0.381818	-1.556998	0.119471	-0.64	no trend
331640091395801	33.27778	-91.66611	Ashley County	-0.192308	-0.855718	0.392154	-0.02	no trend
331729091424001	33.29169	-91.71103	Ashley County	-0.045455	-0.137469	0.89066	-0.01	no trend
330304091224901	33.05124	-91.38075	Chicot County	0.222222	0.7298	0.465512	0.09	no trend
331125091244001	33.19072	-91.41151	Chicot County	0.166667	0.521286	0.602168	0.03	no trend
331312091273301	33.22442	-91.46	Chicot County	-0.288889	-1.082004	0.279251	-0.34	no trend
331500091150701	33.25033	-91.25145	Chicot County	0.212121	0.891443	0.372691	0.14	no trend
332613091255102	33.43708	-91.43096	Chicot County	-0.022222	0	1	-0.04	no trend
332941091175701	33.49715	-91.31102	Chicot County	-0.083333	-0.209657	0.833935	-0.05	no trend
333136091233601	33.52653	-91.39328	Chicot County	-0.357143	-1.113461	0.26551	-0.57	no trend
333154091224561	33.53183	-91.37917	Chicot County	-0.393939	-1.714314	0.086471	-0.27	no trend
333253091231001	33.54855	-91.38512	Chicot County	-0.378788	-1.649624	0.09902	-0.24	no trend
361322090115001	36.22312	-90.19806	Clay County	-0.244444	-0.894427	0.371093	-0.07	no trend
361519090170001	36.25534	-90.28363	Clay County	0.015152	0	1	0.00	no trend
361608090184801	36.28189	-90.69069	Clay County	-0.151515	-0.617153	0.537134	-0.04	no trend
361642090281501	36.27836	-90.4708	Clay County	0.272727	1.165733	0.243722	0.11	no trend
361651090404501	36.28178	-90.68055	Clay County	-0.277778	-0.938315	0.348083	-0.30	no trend
361654090415701	36.28194	-90.6992	Clay County	-0.071429	-0.123718	0.901539	-0.16	no trend
361729090140201	36.29196	-90.23481	Clay County	0.015152	0	1	0.02	no trend
361938090311601	36.32759	-90.52144	Clay County	0	0	1	-0.01	no trend
362034090344001	36.34447	-90.57864	Clay County	0.151515	0.617153	0.537134	0.10	no trend
362055090092901	36.3491	-90.15929	Clay County	0.377778	1.431084	0.152406	0.17	no trend
362102090064001	36.31642	-90.10839	Clay County	-0.2	-0.715542	0.474274	-0.13	no trend
362118090313201	36.35332	-90.52519	Clay County	0.272727	1.165733	0.243722	0.19	no trend

362122090121201	36.35642	-90.20358	Clay County	-0.418182	-1.712698	0.086768	-0.22	no trend
362230090235801	36.26514	-90.53442	Clay County	0.19697	0.824812	0.409478	0.25	no trend
362306090064201	36.38517	-90.11225	Clay County	-0.181818	-0.754298	0.45067	-0.19	no trend
362325090262001	36.39089	-90.43922	Clay County	0.309091	1.245598	0.212912	0.23	no trend
362433090371601	36.40701	-90.62372	Clay County	0.127273	0.467099	0.640429	0.03	no trend
362443090413101	36.41232	-90.69201	Clay County	-0.244444	-0.894427	0.371093	-0.36	no trend
362447090422701	36.4129	-90.70805	Clay County	0.071429	0.123718	0.901539	0.20	no trend
362505090265901	36.4347	-90.43555	Clay County	0.115385	0.488982	0.624854	0.05	no trend
362506090085801	36.41306	-90.14784	Clay County	-0.348485	-1.512155	0.130494	-0.32	no trend
362651090154900	36.44745	-90.26422	Clay County	-0.348485	-1.512155	0.130494	-0.62	no trend
362738090445301	36.46258	-90.74811	Clay County	-0.212121	-0.891443	0.372691	-0.24	no trend
362759090332401	36.46595	-90.55811	Clay County	-0.045455	-0.137469	0.89066	-0.03	no trend
362825090384001	36.47425	-90.64919	Clay County	0.127273	0.467099	0.640429	0.21	no trend
362835090160701	36.47639	-90.26886	Clay County	-0.163636	-0.622799	0.533417	-0.56	no trend
362848090121701	36.48006	-90.20482	Clay County	0.107143	0.249351	0.803089	0.01	no trend
354318090464601	35.72122	-90.77939	Craighead County	0.346154	1.589191	0.112017	0.24	no trend
354335090383401	35.7266	-90.64344	Craighead County	0.115385	0.488982	0.624854	0.08	no trend
354450090270101	35.74518	-90.4505	Craighead County	-0.272727	-1.165733	0.243722	-0.32	no trend
354451090304501	35.74696	-90.51025	Craighead County	-0.151515	-0.617153	0.537134	-0.17	no trend
354456090391001	35.756	-90.64772	Craighead County	-0.120879	-0.547449	0.58407	-0.04	no trend
354516090492201	35.75617	-90.82585	Craighead County	-0.088889	-0.269408	0.787616	-0.02	no trend
354635090365601	35.77667	-90.61537	Craighead County	-0.285714	-1.370678	0.170475	-0.22	no trend
354638090355101	35.77708	-90.59756	Craighead County	-0.181818	-0.754298	0.45067	-0.19	no trend
354648090320201	35.78054	-90.53537	Craighead County	-0.051282	-0.183027	0.854777	-0.11	no trend
354716090215800	35.78817	-90.36575	Craighead County	-0.128205	-0.54908	0.582951	-0.10	no trend
354810091012101	35.80331	-91.02219	Craighead County	-0.285714	-0.866025	0.386476	-0.25	no trend
354916090512501	35.82103	-90.85681	Craighead County	-0.186813	-0.875918	0.381074	-0.11	no trend
354954090192301	35.83147	-90.30958	Craighead County	-0.288889	-1.073313	0.283131	-0.88	no trend
355018090512401	35.836	-90.85642	Craighead County	0.287879	1.237218	0.216006	0.28	no trend
355204090582801	35.86839	-90.97511	Craighead County	-0.153846	-0.715626	0.474222	-0.07	no trend
355238090294801	35.87776	-90.49371	Craighead County	-0.128205	-0.54908	0.582951	-0.09	no trend
355249090184001	35.8786	-90.30963	Craighead County	-0.181818	-0.754298	0.45067	-0.27	no trend
355426090273901	35.90701	-90.46088	Craighead County	-0.314286	-1.583589	0.113287	-0.14	no trend
355506090480201	35.91731	-90.80057	Craighead County	-0.055556	-0.104257	0.916965	-0.06	no trend
350124090215201	35.02259	-90.36107	Crittenden County	-0.186813	-0.875918	0.381074	-0.21	no trend
350848090180801	35.14711	-90.3021	Crittenden County	-0.30303	-1.302878	0.192616	-0.28	no trend
351504090212901	35.24951	-90.35426	Crittenden County	-0.098901	-0.437959	0.661416	-0.06	no trend
351736090255000	35.29361	-90.43111	Crittenden County	-0.444444	-1.563858	0.117851	-0.28	no trend
352021090240801	35.33643	-90.41074	Crittenden County	-0.392857	-1.246757	0.212486	-0.76	no trend
351041090315801	35.17369	-90.53421	Cross County	-0.177778	-0.628619	0.529599	-0.25	no trend
351228090304701	35.20802	-90.51244	Cross County	-0.212121	-0.891443	0.372691	-0.12	no trend
351555090313301	35.2608	-90.52276	Cross County	-0.194444	-0.628971	0.529368	-0.39	no trend
351558090473701	35.26829	-90.79993	Cross County	0.571429	1.855769	0.063487	0.66	no trend
351632090343801	35.27546	-90.5779	Cross County	-0.179487	-0.793116	0.427711	-0.15	no trend
351926090542001	35.32424	-90.90103	Cross County	-0.071429	-0.123718	0.901539	-0.15	no trend
352151090351001	35.36425	-90.59038	Cross County	-0.178571	-0.509372	0.610492	-0.26	no trend
352155090560501	35.36629	-90.93457	Cross County	0.357143	1.113461	0.26551	1.02	no trend
333212091173601	33.54	-91.29299	Desha County	0.151515	0.617153	0.537134	0.06	no trend
333504091224101	33.58428	-91.37817	Desha County	-0.051282	-0.183027	0.854777	-0.19	no trend
334836091093101	33.87759	-91.17898	Desha County	-0.2	-0.715542	0.474274	-0.28	no trend
335030091280101	33.84204	-91.46713	Desha County	0.142857	0.371154	0.710523	0.07	no trend
335210091294901	33.86906	-91.49657	Desha County	-0.285714	-0.866025	0.386476	-0.21	no trend
335258091152301	33.88238	-91.25823	Desha County	-0.111111	-0.357771	0.720515	-0.08	no trend
335450091244501	33.9134	-91.41574	Desha County	0.242424	1.028588	0.303673	0.05	no trend
335501091105501	33.9171	-91.18269	Desha County	0.464286	1.496109	0.134625	0.49	no trend
335608091123401	33.93544	-91.20948	Desha County	-0.018182	0	1	-0.04	no trend
335656091282401	33.95121	-91.41845	Desha County	-0.127273	-0.467099	0.640429	-0.13	no trend
335801091233701	33.96748	-91.39394	Desha County	0.054545	0.1557	0.87627	0.03	no trend
340422091060501	34.07586	-91.04925	Desha County	-0.141026	-0.614295	0.53902	-0.06	no trend
332311091270201	33.3971	-91.46407	Drew County	0	0	1	0.01	no trend
333206091310001	33.53519	-91.51669	Drew County	-0.181818	-0.754298	0.45067	-0.25	no trend
333226091304201	33.51094	-91.53853	Drew County	-0.244444	-0.894427	0.371093	-0.51	no trend
333512091303401	33.58981	-91.51329	Drew County	0.571429	1.855769	0.063487	1.42	no trend
333739091273801	33.6281	-91.46096	Drew County	-0.222222	-0.7298	0.465512	-0.48	no trend

334133091294901	33.69276	-91.49615	Drew County	-0.282051	-1.281187	0.200128	-0.35	no trend
334144091284201	33.69556	-91.47833	Drew County	-0.288889	-1.073313	0.283131	-0.33	no trend
334545091383701	33.76291	-91.64366	Drew County	0.115385	0.488982	0.624854	0.05	no trend
355940090265501	35.99377	-90.44876	Greene County	0.055556	0.104257	0.916965	0.23	no trend
355958090474101	35.99915	-90.79515	Greene County	-0.257576	-1.099749	0.271441	-0.07	no trend
360049090454700	36.01368	-90.76317	Greene County	-0.109091	-0.393648	0.693841	-0.10	no trend
360316090451501	36.05441	-90.7544	Greene County	0.163636	0.622799	0.533417	0.35	no trend
360317090474301	36.05474	-90.79306	Greene County	-0.045455	-0.137469	0.89066	-0.02	no trend
360347090443701	36.07658	-90.74345	Greene County	0.27619	1.385641	0.165857	0.20	no trend
360410090420901	36.06941	-90.70486	Greene County	0.333333	1.252198	0.210498	0.16	no trend
360424090204501	36.07322	-90.34593	Greene County	-0.266667	-0.987829	0.323236	-0.16	no trend
360632090254701	36.1105	-90.43428	Greene County	-0.230769	-1.037151	0.299665	-0.30	no trend
360718090412201	36.12173	-90.68956	Greene County	0.464286	1.496109	0.134625	0.75	no trend
360737090194801	36.12711	-90.29078	Greene County	0.205128	0.915133	0.360122	0.14	no trend
360806090435201	36.12797	-90.74186	Greene County	-0.217949	-0.977964	0.328092	-0.11	no trend
360830090441201	36.14233	-90.73634	Greene County	-0.027778	0	1	-0.01	no trend
360832090172401	36.1425	-90.29075	Greene County	-0.012821	0	1	0.00	no trend
360926090241201	36.1584	-90.40369	Greene County	0.333333	1.146829	0.251452	0.39	no trend
361052090372501	36.1812	-90.62354	Greene County	-0.422222	-1.609969	0.107405	-0.34	no trend
361109090210401	36.18621	-90.35368	Greene County	-0.066667	-0.178885	0.858028	-0.08	no trend
361119090421601	36.189	-90.70223	Greene County	-0.285714	-1.370678	0.170475	-0.09	no trend
361202090210301	36.20077	-90.35135	Greene County	0.076923	0.328469	0.742557	0.10	no trend
361316090202501	36.22097	-90.34063	Greene County	-0.066667	-0.296923	0.766525	-0.02	no trend
361356090385401	36.23666	-90.64666	Greene County	-0.252747	-1.208013	0.227042	-0.14	no trend
361555090430101	36.26687	-90.71623	Greene County	0.060606	0.205718	0.837011	0.06	no trend
353412091251102	35.56924	-91.41829	Independence County	-0.075758	-0.274937	0.783364	-0.05	no trend
353630091230001	35.6195	-91.3954	Independence County	0.072727	0.234261	0.814783	0.01	no trend
353718091250601	35.62225	-91.42014	Independence County	-0.166667	-0.733473	0.46327	-0.40	no trend
353736091282601	35.62723	-91.47423	Independence County	0.051282	0.183027	0.854777	0.17	no trend
353950091225001	35.65818	-91.37657	Independence County	-0.25641	-1.159169	0.246387	-0.73	no trend
354110091225501	35.68508	-91.39913	Independence County	-0.212121	-0.891443	0.372691	-0.47	no trend
355105091170001	35.85135	-91.28561	Independence County	-0.163636	-0.622799	0.533417	-0.16	no trend
352217091134801	35.37209	-91.23006	Jackson County	-0.066667	-0.178885	0.858028	-0.04	no trend
352829091130901	35.47498	-91.2203	Jackson County	-0.155556	-0.536656	0.591505	-0.13	no trend
353550091042801	35.59722	-91.07444	Jackson County	0.428571	1.360897	0.173546	0.23	no trend
353652091203401	35.61531	-91.33569	Jackson County	-0.362637	-1.751836	0.079802	-0.58	no trend
354127091041601	35.69113	-91.07118	Jackson County	-0.090909	-0.3114	0.755497	-0.07	no trend
354329091161201	35.72482	-91.27038	Jackson County	-0.022222	0	1	-0.07	no trend
355219091051201	35.87232	-91.08754	Jackson County	0.333333	1.525222	0.127204	0.24	no trend
340722091482801	34.11643	-91.80949	Jefferson County	0.2	0.715542	0.474274	0.33	no trend
341007091370701	34.16854	-91.62006	Jefferson County	-0.205128	-0.915133	0.360122	-0.22	no trend
341024091324001	34.17304	-91.54583	Jefferson County	-0.296703	-1.423367	0.15463	-0.28	no trend
341125092442601	34.19027	-91.74048	Jefferson County	-0.2	-0.715542	0.474274	-0.17	no trend
341836091434701	34.31869	-91.73005	Jefferson County	0.285714	0.866025	0.386476	0.18	no trend
342123091492601	34.35635	-91.82401	Jefferson County	-0.2	-0.778499	0.436275	-0.20	no trend
342430091555501	34.40759	-91.93189	Jefferson County	0.571429	1.855769	0.063487	1.31	no trend
342449092035801	34.41523	-92.06628	Jefferson County	0.218182	0.858956	0.390365	0.21	no trend
342517092002301	34.42134	-92.00648	Jefferson County	0.010989	0	1	0.01	no trend
355330091035200	35.89338	-91.06565	Lawrence County	-0.30303	-1.302878	0.192616	-0.23	no trend
355412090565101	35.90053	-90.94426	Lawrence County	0.309091	1.245598	0.212912	0.38	no trend
355931091071901	35.99359	-91.12313	Lawrence County	-0.423077	-1.955928	0.050474	-0.59	no trend
360435091015801	36.07683	-91.02833	Lawrence County	-0.145455	-0.546608	0.584648	-0.09	no trend
360834090520901	36.13309	-90.87324	Lawrence County	0.072727	0.234261	0.814783	0.01	no trend
360901090570701	36.15036	-90.9538	Lawrence County	0.181818	0.754298	0.45067	0.12	no trend
343904090543401	34.64711	-90.90989	Lee County	-0.444444	-1.563858	0.117851	-1.53	no trend
343912090543401	34.65825	-90.90967	Lee County	-0.357143	-1.113461	0.26551	-0.97	no trend
343923090454901	34.65702	-90.76402	Lee County	-0.161905	-0.791795	0.42848	-0.57	no trend
343952090460501	34.66463	-90.76819	Lee County	-0.277778	-0.938315	0.348083	-1.44	no trend
344054090573601	34.67625	-90.95421	Lee County	-0.416667	-1.467599	0.142213	-0.63	no trend
344256090504401	34.71611	-90.84556	Lee County	-0.321429	-0.997406	0.318567	-2.34	no trend
344257090541701	34.71638	-90.90471	Lee County	-0.277778	-0.938315	0.348083	-1.15	no trend
344351090503001	34.731	-90.83922	Lee County	-0.311111	-1.167434	0.243035	-1.13	no trend
344500090484601	34.7501	-90.81289	Lee County	-0.222222	-0.737865	0.460597	-0.30	no trend
344542091010101	34.76205	-91.01869	Lee County	0.214286	0.61859	0.536187	0.15	no trend

344636090394901	34.77687	-90.664	Lee County	-0.127273	-0.467099	0.640429	-0.30	no trend
344756090543401	34.80204	-90.8941	Lee County	0.142857	0.656939	0.51122	0.13	no trend
344914090483701	34.82574	-90.82395	Lee County	0.054545	0.1557	0.87627	0.12	no trend
345145090320200	34.86336	-90.53424	Lee County	-0.104762	-0.496088	0.619832	-0.07	no trend
345237090510301	34.87706	-90.85203	Lee County	0.054945	0.21898	0.826666	0.06	no trend
335155091390801	33.86536	-91.65221	Lincoln County	0.095238	0.445931	0.655647	0.03	no trend
335228091383301	33.87444	-91.6425	Lincoln County	0.153846	0.671098	0.502158	0.06	no trend
335455091395501	33.90785	-91.6647	Lincoln County	-0.109091	-0.393648	0.693841	-0.12	no trend
335545091343501	33.93139	-91.57752	Lincoln County	0.181818	0.754298	0.45067	0.14	no trend
335619091382001	33.931	-91.63888	Lincoln County	0.274725	1.313877	0.188887	0.10	no trend
335702091324701	33.95327	-91.56148	Lincoln County	0.015152	0	1	0.04	no trend
335749091432801	33.96509	-91.72688	Lincoln County	-0.088889	-0.269408	0.787616	-0.25	no trend
335821091434601	33.97261	-91.7294	Lincoln County	-0.054945	-0.21898	0.826666	-0.06	no trend
340021091364401	33.99939	-91.61433	Lincoln County	0.25	0.838628	0.401678	0.11	no trend
340027091353301	34.0076	-91.59263	Lincoln County	0.155556	0.541002	0.588506	0.20	no trend
340230091322401	34.04581	-91.5388	Lincoln County	-0.2	-0.778499	0.436275	-0.43	no trend
340300091490301	34.05023	-91.81742	Lincoln County	-0.318681	-1.532857	0.125311	-0.16	no trend
340323091310901	34.0603	-91.52123	Lincoln County	-0.072727	-0.234261	0.814783	-0.03	no trend
340828091411401	34.13763	-91.68741	Lincoln County	-0.164835	-0.766428	0.443421	-0.26	no trend
343007091523701	34.50194	-91.87694	Lonoke County	0.066667	0.178885	0.858028	0.03	no trend
343153091572701	34.53181	-91.9575	Lonoke County	0.177778	0.628619	0.529599	0.02	no trend
343430091544701	34.575	-91.91306	Lonoke County	-0.381818	-1.556998	0.119471	-0.35	no trend
343437091561601	34.57645	-91.93857	Lonoke County	0.111111	0.357771	0.720515	0.12	no trend
343458091412901	34.58316	-91.69208	Lonoke County	0.033333	0.135068	0.892558	0.01	no trend
343501091405301	34.58385	-91.68278	Lonoke County	-0.355556	-1.34704	0.177967	-0.19	no trend
343607091492601	34.60157	-91.8201	Lonoke County	0.114286	0.545027	0.585735	0.07	no trend
343609091474601	34.6025	-91.79611	Lonoke County	0.422222	1.609969	0.107405	0.30	no trend
343834091423001	34.64286	-91.70829	Lonoke County	0.111111	0.357771	0.720515	0.61	no trend
343841092033701	34.64472	-92.06028	Lonoke County	-0.222222	-0.7298	0.465512	-0.36	no trend
344033091504201	34.67628	-91.8454	Lonoke County	0.333333	1.146829	0.251452	0.40	no trend
344103091441001	34.6843	-91.73622	Lonoke County	-0.444444	-1.563858	0.117851	-0.44	no trend
344235091551701	34.70977	-91.92139	Lonoke County	-0.384615	-1.861326	0.062698	-0.25	no trend
344236092041001	34.70998	-92.07043	Lonoke County	-0.381818	-1.556998	0.119471	-0.38	no trend
344411091505001	34.73428	-91.84422	Lonoke County	0.428571	1.360897	0.173546	0.52	no trend
344543091510601	34.76194	-91.85167	Lonoke County	0.071429	0.123718	0.901539	0.10	no trend
344807092035201	34.80162	-92.06491	Lonoke County	-0.254545	-1.015129	0.310044	-0.18	no trend
344811091520301	34.8018	-91.85378	Lonoke County	0.032967	0.10949	0.912814	0.02	no trend
344835091470701	34.81258	-91.78562	Lonoke County	0.333333	1.159502	0.246252	0.22	no trend
345057091463201	34.84878	-91.7807	Lonoke County	0.222222	0.7298	0.465512	0.37	no trend
345057091525601	34.84948	-91.88112	Lonoke County	0.155556	0.536656	0.591505	0.08	no trend
345125091533301	34.85695	-91.89261	Lonoke County	-0.333333	-1.146829	0.251452	-1.79	no trend
345147091533301	34.86308	-91.89245	Lonoke County	0.288889	1.073313	0.283131	0.17	no trend
345753091543201	34.96483	-91.90883	Lonoke County	-0.071429	-0.123718	0.901539	-0.05	no trend
345833091512002	34.97581	-91.8559	Lonoke County	-0.181818	-0.754298	0.45067	-0.04	no trend
352851090131201	35.48084	-90.22253	Mississippi County	-0.064103	-0.244491	0.806851	-0.03	no trend
353213090072701	35.53826	-90.12088	Mississippi County	0.018182	0	1	0.10	no trend
354050090155901	35.67974	-90.26646	Mississippi County	0.212121	0.891443	0.372691	0.15	no trend
354250090103001	35.71665	-90.17079	Mississippi County	0.155556	0.536656	0.591505	0.24	no trend
354414090025601	35.73834	-90.04882	Mississippi County	0.444444	1.563858	0.117851	0.54	no trend
354810089591001	35.80418	-89.98544	Mississippi County	-0.166667	-0.521286	0.602168	-0.11	no trend
354834089595900	35.80931	-89.99927	Mississippi County	0.272727	1.165733	0.243722	0.09	no trend
355005090034601	35.83935	-90.06267	Mississippi County	0.428571	1.360897	0.173546	0.25	no trend
355102090105101	35.85116	-90.18109	Mississippi County	-0.166667	-0.521286	0.602168	-0.18	no trend
355133090140401	35.85895	-90.2351	Mississippi County	0.022222	0	1	0.01	no trend
355226090151101	35.87387	-90.25279	Mississippi County	-0.054545	-0.1557	0.87627	-0.02	no trend
355606090152701	35.93461	-90.25731	Mississippi County	-0.127273	-0.467099	0.640429	-0.11	no trend
355800090115701	35.96735	-90.19906	Mississippi County	0.5	1.772373	0.076333	0.51	no trend
355853090015501	35.98504	-90.03223	Mississippi County	0.244444	0.894427	0.371093	0.46	no trend
355949089522701	35.99633	-89.87538	Mississippi County	0.222222	0.808224	0.418962	0.24	no trend
342744091033501	34.55088	-91.06754	Monroe County	-0.19697	-0.824812	0.409478	-0.11	no trend
343154091111000	34.53583	-91.18349	Monroe County	-0.296703	-1.427652	0.153392	-0.31	no trend
343532091211601	34.60044	-91.38647	Monroe County	-0.272727	-1.165733	0.243722	-0.64	no trend
343609091145301	34.60353	-91.24892	Monroe County	-0.191667	-0.991501	0.321441	-0.17	no trend
343613091034401	34.60304	-91.06126	Monroe County	-0.015152	0	1	-0.01	no trend

343617091085101	34.60493	-91.147	Monroe County	-0.076923	-0.328469	0.742557	-0.02	no trend
343906091231701	34.65158	-91.38797	Monroe County	-0.208791	-0.985408	0.324424	-0.14	no trend
343959091264801	34.66653	-91.44681	Monroe County	-0.362637	-1.751836	0.079802	-0.67	no trend
344124091173501	34.69049	-91.2934	Monroe County	-0.290909	-1.171303	0.241477	-0.29	no trend
344135091165101	34.69311	-91.28072	Monroe County	0.142857	0.371154	0.710523	0.36	no trend
344139091054201	34.69456	-91.09561	Monroe County	0.090909	0.342863	0.731702	0.09	no trend
344242091103001	34.71175	-91.17553	Monroe County	-0.032967	-0.10949	0.912814	-0.01	no trend
344425091172801	34.74029	-91.29803	Monroe County	-0.083333	-0.209657	0.833935	-0.11	no trend
344624091081401	34.7731	-91.13744	Monroe County	0.214286	0.61859	0.536187	0.16	no trend
344958091144601	34.83286	-91.24644	Monroe County	-0.151515	-0.617153	0.537134	-0.13	no trend
345021091154701	34.8393	-91.26306	Monroe County	0.025641	0.061009	0.951352	0.05	no trend
345201091072101	34.86699	-91.12301	Monroe County	0.357143	1.113461	0.26551	0.22	no trend
345535091122103	34.9264	-91.20574	Monroe County	0.444444	1.563858	0.117851	0.22	no trend
345539091115003	34.92784	-91.19715	Monroe County	0.030303	0.068573	0.94533	0.01	no trend
345929091100401	34.99114	-91.16435	Monroe County	0.044444	0.089803	0.928444	0.09	no trend
345958091125901	35.00047	-91.21952	Monroe County	0	0	1	0.00	no trend
341844091014801	34.30769	-91.02653	Phillips County	-0.345455	-1.401298	0.161125	-0.24	no trend
341928090585301	34.32536	-90.98128	Phillips County	0.333333	1.146829	0.251452	0.30	no trend
342014090583701	34.33684	-90.97659	Phillips County	-0.015152	0	1	-0.01	no trend
342732090391801	34.45994	-90.65576	Phillips County	-0.114286	-0.545027	0.585735	-0.10	no trend
342735090471001	34.45959	-90.78609	Phillips County	-0.164835	-0.766428	0.443421	-0.16	no trend
342800090570101	34.37732	-90.95011	Phillips County	-0.30303	-1.330266	0.183431	-0.28	no trend
342818090465301	34.47455	-90.7815	Phillips County	-0.212121	-0.895665	0.370432	-0.18	no trend
342824090541201	34.46793	-90.90145	Phillips County	-0.288889	-1.073313	0.283131	-0.48	no trend
342916091005801	34.48788	-91.01616	Phillips County	0.142857	0.371154	0.710523	0.09	no trend
342932090400201	34.4921	-90.66697	Phillips County	-0.15	-0.765383	0.444044	-0.09	no trend
343004090584101	34.50114	-90.97848	Phillips County	-0.277778	-0.938315	0.348083	-0.42	no trend
343108090462601	34.51943	-90.77263	Phillips County	-0.055556	-0.104257	0.916965	-0.16	no trend
343529091005801	34.59032	-91.01558	Phillips County	0.015152	0	1	0.12	no trend
343714090541601	34.62187	-90.90946	Phillips County	-0.166667	-0.855428	0.392314	-0.19	no trend
343741090463401	34.62853	-90.77536	Phillips County	-0.282051	-1.281187	0.200128	-1.06	no trend
343802090415101	34.63503	-90.69708	Phillips County	-0.158333	-0.811228	0.417235	-0.24	no trend
343814090451101	34.6385	-90.75259	Phillips County	-0.282051	-1.285982	0.198449	-0.85	no trend
352657091005301	35.44924	-91.0148	Poinsett County	0.472222	1.677256	0.093492	0.67	no trend
352747090443201	35.46355	-90.64154	Poinsett County	0.290909	1.171303	0.241477	0.61	no trend
352905090490701	35.48187	-90.8232	Poinsett County	0.388889	1.37032	0.170587	1.21	no trend
352906090541801	35.48579	-90.90829	Poinsett County	0.107143	0.249351	0.803089	0.25	no trend
353224090264601	35.54	-90.44611	Poinsett County	0.444444	1.563858	0.117851	0.57	no trend
353318090321301	35.55564	-90.53316	Poinsett County	-0.212121	-0.895665	0.370432	-0.13	no trend
353349090192201	35.56216	-90.32291	Poinsett County	0.194444	0.628971	0.529368	0.12	no trend
353410090591301	35.57697	-91.00369	Poinsett County	0.488889	1.901251	0.057269	0.60	no trend
353435090232001	35.57631	-90.38921	Poinsett County	-0.282051	-1.281187	0.200128	-0.15	no trend
353448090363101	35.58036	-90.6083	Poinsett County	0.133333	0.452679	0.65078	0.07	no trend
353535090471401	35.59314	-90.78734	Poinsett County	0.444444	1.563858	0.117851	6.05	no trend
353740090180201	35.62782	-90.30055	Poinsett County	0.022222	0	1	0.05	no trend
353745090435301	35.6295	-90.73133	Poinsett County	0.424242	1.851459	0.064104	0.53	no trend
353749090431901	35.63039	-90.72187	Poinsett County	0.277778	0.938315	0.348083	0.46	no trend
353804090323101	35.63483	-90.54179	Poinsett County	0	0	1	-0.01	no trend
353813090495001	35.63776	-90.82933	Poinsett County	0.428571	1.360897	0.173546	0.91	no trend
353922090580901	35.65604	-90.97069	Poinsett County	0.422222	1.64089	0.10082	0.36	no trend
354039090333301	35.67775	-90.55897	Poinsett County	-0.181818	-0.702782	0.482192	-0.30	no trend
354059090405701	35.68147	-90.68678	Poinsett County	0.535714	1.74546	0.080905	0.64	no trend
354201090210001	35.69706	-90.35605	Poinsett County	-0.051282	-0.183027	0.854777	-0.07	no trend
343417091343201	34.57139	-91.57558	Prairie County	-0.296703	-1.423367	0.15463	-0.38	no trend
343722091310801	34.62277	-91.5191	Prairie County	0.285714	0.866025	0.386476	0.06	no trend
344015091364601	34.67093	-91.61291	Prairie County	-0.142857	-0.371154	0.710523	-0.12	no trend
344354091404901	34.73138	-91.6803	Prairie County	-0.352381	-1.781538	0.074825	-0.09	no trend
344436091273701	34.74345	-91.4605	Prairie County	0.071429	0.123718	0.901539	0.05	no trend
344544091330802	34.76256	-91.55243	Prairie County	-0.090909	-0.3114	0.755497	-0.04	no trend
344651091355101	34.78083	-91.5975	Prairie County	-0.242424	-1.028588	0.303673	-0.06	no trend
344916091241801	34.8212	-91.40517	Prairie County	-0.214286	-0.61859	0.536187	-0.53	no trend
345140091400401	34.86118	-91.66776	Prairie County	0.5	1.608333	0.107762	0.33	no trend
345444091311501	34.91224	-91.52093	Prairie County	-0.018182	0	1	-0.10	no trend
345514091340601	34.92046	-91.56829	Prairie County	0.236364	0.934199	0.350201	0.17	no trend

345843091344602	34.9784	-91.57811	Prairie County	0.2	0.715542	0.474274	0.19	no trend
345851091273201	34.98064	-91.45919	Prairie County	-0.217949	-0.977964	0.328092	-0.53	no trend
343213092030901	34.53464	-92.05938	Pulaski County	-0.163636	-0.622799	0.533417	-0.15	no trend
343544092063501	34.59383	-92.11879	Pulaski County	0.111111	0.312772	0.754454	0.18	no trend
360942090572901	36.16186	-90.95809	Randolph County	0.2	0.778499	0.436275	0.20	no trend
361044090512001	36.1791	-90.85685	Randolph County	0.422222	1.609969	0.107405	0.38	no trend
361229090584701	36.20841	-90.97668	Randolph County	0.055556	0.104257	0.916965	0.09	no trend
361233090571201	36.2089	-90.95383	Randolph County	0.222222	0.7298	0.465512	0.45	no trend
361345090503601	36.22819	-90.84443	Randolph County	-0.444444	-1.563858	0.117851	-0.47	no trend
362101090453201	36.35376	-90.76055	Randolph County	-0.345455	-1.401298	0.161125	-0.32	no trend
362424090481501	36.40673	-90.80316	Randolph County	-0.163636	-0.622799	0.533417	-0.23	no trend
345604090522000	34.9352	-90.87553	St. Francis County	-0.214286	-0.61859	0.536187	-0.31	no trend
345623090465601	34.93974	-90.78204	St. Francis County	0.285714	0.866025	0.386476	0.66	no trend
345716091080101	34.95477	-91.1337	St. Francis County	0.527778	1.915183	0.055469	0.17	no trend
345827090511701	34.97337	-90.85353	St. Francis County	0.4	1.526645	0.126849	0.59	no trend
350029090265801	35.0071	-90.44913	St. Francis County	-0.351648	-1.69964	0.089199	-0.24	no trend
350032090514901	35.00889	-90.87034	St. Francis County	0.535714	1.74546	0.080905	0.70	no trend
350126090362901	35.02433	-90.60843	St. Francis County	-0.051282	-0.183027	0.854777	-0.04	no trend
350214090480101	35.03728	-90.80023	St. Francis County	0.166667	0.521286	0.602168	0.52	no trend
350451091020001	35.0803	-91.03274	St. Francis County	0.5	1.791957	0.07314	1.12	no trend
350557090594302	35.09787	-90.99489	St. Francis County	0.142857	0.371154	0.710523	0.64	no trend
350812090500201	35.13683	-90.8341	St. Francis County	0.166667	0.521286	0.602168	0.25	no trend
350824090540301	35.13591	-90.90095	St. Francis County	0.266667	0.987829	0.323236	0.60	no trend
350401091443501	35.06673	-91.74333	White County	-0.27619	-1.385641	0.165857	-0.08	no trend
350447091444101	35.07969	-91.74486	White County	-0.464286	-1.496109	0.134625	-0.54	no trend
350641091492801	35.11119	-91.82468	White County	-0.205128	-0.915133	0.360122	-0.29	no trend
350852091360101	35.15509	-91.59791	White County	-0.428571	-1.360897	0.173546	-0.34	no trend
350858091405101	35.14759	-91.69776	White County	-0.393939	-1.714314	0.086471	-0.30	no trend
350907091482601	35.15215	-91.80677	White County	-0.19697	-0.824812	0.409478	-0.26	no trend
351046091390801	35.17978	-91.65275	White County	-0.428571	-1.360897	0.173546	-1.00	no trend
351137091335801	35.19351	-91.56839	White County	-0.244444	-0.894427	0.371093	-0.76	no trend
345951091190001	35.00581	-91.30552	Woodruff County	-0.2	-0.778499	0.436275	-0.32	no trend
350209091135601	35.03547	-91.23222	Woodruff County	0.363636	1.577169	0.114757	0.30	no trend
351154091204701	35.20571	-91.34269	Woodruff County	0.083333	0.209657	0.833935	0.21	no trend
351530091060301	35.26148	-91.10734	Woodruff County	-0.277778	-0.938315	0.348083	-0.34	no trend
351557091060901	35.26539	-91.102	Woodruff County	0.571429	1.855769	0.063487	0.75	no trend
351655091202801	35.28211	-91.34137	Woodruff County	-0.141667	-0.721091	0.470853	-0.08	no trend
352028091074701	35.34113	-91.12908	Woodruff County	0.384615	1.769258	0.076851	0.30	no trend
352128091191901	35.35778	-91.32194	Woodruff County	0.030303	0.068573	0.94533	0.02	no trend
352210091193601	35.3678	-91.32859	Woodruff County	-0.361111	-1.257942	0.208413	-0.18	no trend
352311091183701	35.3892	-91.30976	Woodruff County	0.138889	0.419314	0.674987	0.36	no trend

Appendix D
Sparta/Memphis Aquifer Mann-Kendall/Sen's Slope Results
2000–2025

Station ID Name	Latitude	Longitude	County Name	Tau	z-statistic	p	slope (ft/yr)	water level trend
340858091200801	34.14978	-91.33582778	Arkansas County	-0.51	-2.38	0.017343	-0.71	increasing
341023091145101	34.17296	-91.24809444	Arkansas County	-0.43	-2.08	0.037497	-0.50	increasing
341734091200601	34.29282	-91.33530833	Arkansas County	-0.64	-2.81	0.004932	-3.33	increasing
341752091300401	34.29778	-91.50100833	Arkansas County	-0.52	-2.75	0.006026	-1.16	increasing
341929091073901	34.32416	-91.13001111	Arkansas County	-0.59	-2.75	0.006044	-0.70	increasing
342004091251401	34.33525	-91.420875	Arkansas County	-0.55	-2.93	0.003428	-1.25	increasing
342005091292601	34.33431	-91.49119444	Arkansas County	-0.50	-2.66	0.0079	-1.06	increasing
342132091313301	34.35893	-91.52591389	Arkansas County	-0.62	-3.42	0.000629	-0.99	increasing
342155091250301	34.36582	-91.41708889	Arkansas County	-0.62	-3.17	0.001539	-0.92	increasing
342321091295501	34.38951	-91.49901667	Arkansas County	-0.54	-2.77	0.005584	-2.05	increasing
342416091264501	34.40193	-91.44417222	Arkansas County	-0.77	-3.60	0.000319	-2.19	increasing
342447091323801	34.4131	-91.54451389	Arkansas County	-0.59	-2.75	0.006044	-1.58	increasing
342515091421001	34.42098	-91.70448611	Arkansas County	-0.45	-2.28	0.022822	-0.72	increasing
342632091300501	34.44199	-91.50126944	Arkansas County	-0.66	-3.67	0.000246	-1.48	increasing
342632091322701	34.44256	-91.54148056	Arkansas County	-0.59	-3.25	0.001137	-1.57	increasing
342633091352301	34.44149	-91.59018889	Arkansas County	-0.52	-2.52	0.011793	-0.85	increasing
342747091245701	34.46322	-91.41612222	Arkansas County	-0.45	-2.58	0.010004	-0.78	increasing
342839091303201	34.47839	-91.50936389	Arkansas County	-0.56	-3.09	0.002005	-1.04	increasing
342924091270001	34.48948	-91.45074444	Arkansas County	-0.43	-2.30	0.021667	-1.50	increasing
342925091314701	34.49018	-91.52994167	Arkansas County	-0.50	-2.66	0.0079	-0.74	increasing
342930091303401	34.49166	-91.50980833	Arkansas County	-0.54	-2.77	0.005584	-1.00	increasing
343044091234901	34.51228	-91.39848056	Arkansas County	-0.51	-2.84	0.004479	-0.94	increasing
343312091284901	34.55321	-91.48035833	Arkansas County	-0.58	-3.43	0.000607	-1.15	increasing
340030091144701	34.00863	-91.24657222	Arkansas County	-0.37	-1.71	0.087	-0.27	no trend
340340091141001	34.06102	-91.23639167	Arkansas County	-0.36	-1.75	0.079802	-0.46	no trend
340711091224801	34.11719	-91.37991111	Arkansas County	0.27	1.17	0.243722	0.56	no trend
340904091133101	34.15113	-91.22529444	Arkansas County	-0.36	-1.65	0.099509	-0.33	no trend
341228091162201	34.20775	-91.272225	Arkansas County	0.00	0.00	1	0.06	no trend
341247091294601	34.21253	-91.49629167	Arkansas County	-0.27	-1.31	0.188887	-0.46	no trend
341324091311901	34.22326	-91.52221111	Arkansas County	-0.45	-1.87	0.061707	-0.56	no trend
341358091243501	34.23286	-91.40950833	Arkansas County	-0.05	-0.16	0.87627	-0.12	no trend
341550091074201	34.26411	-91.12936111	Arkansas County	-0.42	-1.71	0.086768	-0.31	no trend
341819091344801	34.30535	-91.58001667	Arkansas County	0.12	0.48	0.631222	0.14	no trend
342226091075801	34.37373	-91.13567222	Arkansas County	-0.21	-0.62	0.536187	-0.17	no trend
342303091341001	34.38408	-91.57023333	Arkansas County	-0.47	-1.79	0.073638	-1.27	no trend
342416091243701	34.40584	-91.41063889	Arkansas County	0.02	0.00	1	0.15	no trend
342553091225102	34.43183	-91.38133333	Arkansas County	-0.23	-1.22	0.224134	-0.55	no trend
343143091331801	34.52877	-91.55518611	Arkansas County	-0.26	-1.54	0.123715	-0.35	no trend
331357092010901	33.22602	-92.02123333	Ashley County	0.05	0.23	0.821892	0.10	no trend
332117091510301	33.35494	-91.85029444	Ashley County	-0.22	-1.13	0.260351	-0.32	no trend
331836092205201	33.31092	-92.34788333	Bradley County	-0.44	-2.82	0.004805	-0.42	increasing
332142092162101	33.36167	-92.2725	Bradley County	-0.92	-5.61	1.99E-08	-0.60	increasing
333647092043701	33.61331	-92.07707778	Bradley County	-0.42	-2.71	0.006789	-1.46	increasing
333453092160701	33.58157	-92.26868056	Bradley County	-0.18	-1.13	0.259355	-0.26	no trend
333625092040701	33.60694	-92.06861111	Bradley County	0.08	0.33	0.742557	0.14	no trend
333647092040701	33.61309	-92.07134444	Bradley County	-0.05	-0.16	0.87627	-0.18	no trend
333709092044401	33.61979	-92.07894722	Bradley County	-0.13	-0.78	0.435937	-0.28	no trend
332230092282101	33.375	-92.4725	Calhoun County	-0.91	-3.58	0.000347	-3.08	increasing
332407092281001	33.40305	-92.46849722	Calhoun County	-0.57	-2.92	0.003463	-0.33	increasing
333040092240301	33.51113	-92.40098333	Calhoun County	-0.43	-2.76	0.00572	-0.38	increasing
333055092391001	33.51534	-92.6534	Calhoun County	-0.56	-2.15	0.031823	-0.88	increasing
333145092255101	33.52926	-92.43095278	Calhoun County	-0.61	-2.19	0.028568	-2.07	increasing
333204092280301	33.53518	-92.46709722	Calhoun County	-0.76	-3.36	0.000779	-1.34	increasing
333226092274101	33.54078	-92.46157222	Calhoun County	-0.10	-0.62	0.535024	-0.09	no trend
333233092222401	33.54261	-92.37348314	Calhoun County	-0.36	-1.58	0.114757	-0.11	no trend
334630092292701	33.77507	-92.49115833	Calhoun County	0.25	1.36	0.174034	0.34	no trend
332418091272601	33.40803	-91.45655556	Chicot County	0.45	2.39	0.017024	0.26	decreasing
333317091230601	33.55344	-91.38545	Chicot County	0.83	3.02	0.002499	0.56	decreasing
335623092125101	33.93946	-92.21399167	Cleveland County	-0.47	-2.30	0.021489	-0.39	increasing
334543092142201	33.76195	-92.23985278	Cleveland County	0.00	0.00	1	0.18	no trend
334758091595701	33.79943	-91.99920278	Cleveland County	-0.20	-0.72	0.474274	-0.42	no trend
334917092001901	33.82165	-92.00569444	Cleveland County	0.15	0.62	0.537134	0.26	no trend
335133092174901	33.85916	-92.29538333	Cleveland County	-0.26	-1.16	0.246387	-0.26	no trend

Note: a decreasing slope indicates a decreasing depth to water, which is equivalent to an increasing water level trend

335816092023701	33.97225	-92.04359722	Cleveland County	-0.14	-0.37	0.710523	-0.46	no trend
331613093175801	33.27039	-93.29952778	Columbia County	0.58	3.11	0.001893	4.65	decreasing
330109093213301	33.01922	-93.35922222	Columbia County	-0.69	-4.49	7.28E-06	-0.18	increasing
330127093221701	33.0242	-93.37127222	Columbia County	-0.71	-2.96	0.003093	-0.31	increasing
330139093223601	33.02734	-93.37674167	Columbia County	-0.64	-2.99	0.002795	-0.35	increasing
330235093102301	33.04419	-93.17518611	Columbia County	-0.57	-3.02	0.002557	-0.98	increasing
330517093172501	33.08811	-93.29005556	Columbia County	-0.60	-3.86	0.000111	-0.22	increasing
330554093275201	33.09847	-93.4646178	Columbia County	-0.92	-4.33	1.48E-05	-0.80	increasing
330555093112801	33.09872	-93.19131111	Columbia County	-0.53	-3.35	0.000803	-0.65	increasing
330555093275201	33.09868	-93.46455	Columbia County	-0.58	-2.85	0.004417	-3.20	increasing
330558093115601	33.09972	-93.19911111	Columbia County	-0.99	-5.68	1.33E-08	-1.73	increasing
330604093272201	33.10137	-93.45614444	Columbia County	-0.68	-4.37	1.23E-05	-0.31	increasing
330609093274302	33.10261	-93.46222778	Columbia County	-0.65	-4.20	2.63E-05	-0.30	increasing
330649093282401	33.1122	-93.475925	Columbia County	-0.53	-3.15	0.00164	-0.29	increasing
330834093215801	33.14294	-93.366275	Columbia County	-0.65	-4.17	3.00E-05	-0.40	increasing
331053093101501	33.18177	-93.17104444	Columbia County	-0.52	-3.29	0.000997	-0.67	increasing
331406093065001	33.23503	-93.11392778	Columbia County	-0.57	-3.59	0.000326	-1.07	increasing
331516093230301	33.25461	-93.38450278	Columbia County	-0.48	-2.95	0.003153	-0.24	increasing
331521093220901	33.25612	-93.36946389	Columbia County	-0.59	-3.91	9.28E-05	-0.37	increasing
331607093181801	33.26889	-93.30544444	Columbia County	-0.52	-3.38	0.000715	-0.65	increasing
331609093144902	33.26904	-93.24683611	Columbia County	-0.89	-6.35	2.18E-10	-0.96	increasing
331742093142301	33.2953	-93.23990278	Columbia County	-0.73	-4.86	1.18E-06	-1.56	increasing
332052093123701	33.34804	-93.21038889	Columbia County	-0.74	-3.61	0.000302	-1.51	increasing
332453093121501	33.41483	-93.20416944	Columbia County	-0.47	-3.12	0.001817	-0.14	increasing
331114093122601	33.18744	-93.20751111	Columbia County	-0.01	-0.03	0.974118	-0.14	no trend
331142093124801	33.19518	-93.21363333	Columbia County	0.09	0.49	0.624277	0.33	no trend
331306093075101	33.21863	-93.13191111	Columbia County	-0.45	-1.87	0.061707	-0.43	no trend
331433093070501	33.24244	-93.11793333	Columbia County	-0.44	-1.56	0.117851	-0.77	no trend
331512093065801	33.25467	-93.11544167	Columbia County	-0.28	-1.39	0.165857	-0.76	no trend
331519093115901	33.25549	-93.20019167	Columbia County	-0.15	-0.67	0.502158	-0.22	no trend
331519093213601	33.25576	-93.36018611	Columbia County	0.03	0.13	0.896689	0.03	no trend
331533093080701	33.259	-93.1353	Columbia County	0.09	0.40	0.692181	0.29	no trend
331537093032801	33.26041	-93.05794251	Columbia County	-0.20	-1.20	0.229969	-0.70	no trend
331538093053602	33.26057	-93.09340556	Columbia County	-0.18	-0.79	0.427717	-0.69	no trend
331948093222201	33.32989	-93.37358056	Columbia County	-0.32	-1.89	0.058862	-0.15	no trend
332049093151601	33.34705	-93.2548	Columbia County	-0.24	-1.52	0.127837	-0.50	no trend
332117093113901	33.35391	-93.19481667	Columbia County	0.27	1.09	0.275758	1.03	no trend
354449090324301	35.74618	-90.544825	Craighead County	-0.38	-2.03	0.042763	-0.15	increasing
350958090173800	35.16612	-90.29400556	Crittenden County	-0.27	-1.48	0.137757	-0.15	no trend
334832092245502	33.80818	-92.41600278	Dallas County	-0.38	-2.03	0.042763	-0.25	increasing
334906092313601	33.81878	-92.52721944	Dallas County	-0.63	-3.07	0.002172	-1.94	increasing
335201092363201	33.86851	-92.60889444	Dallas County	-0.43	-2.08	0.037497	-0.24	increasing
335304092241301	33.88591	-92.40372222	Dallas County	-0.45	-2.19	0.028539	-0.13	increasing
335935092430701	33.99354	-92.71865833	Dallas County	-0.41	-2.08	0.037667	-0.15	increasing
335119092412001	33.85543	-92.68891111	Dallas County	-0.23	-1.24	0.216151	-0.11	no trend
335605092470101	33.93486	-92.78365833	Dallas County	-0.12	-0.59	0.558351	-0.03	no trend
335753092291801	33.9649	-92.48855	Dallas County	0.36	1.11	0.26551	1.33	no trend
335853092365801	33.98299	-92.62503056	Dallas County	0.08	0.33	0.742557	0.02	no trend
340152092463901	34.03124	-92.77760278	Dallas County	-0.31	-1.40	0.160556	-0.64	no trend
340402092375201	34.06735	-92.63122778	Dallas County	-0.35	-1.70	0.089199	-0.28	no trend
340430092340001	34.07524	-92.566625	Dallas County	-0.27	-1.17	0.243722	-0.12	no trend
340559092454101	34.09866	-92.76251944	Dallas County	-0.23	-1.22	0.224134	-0.15	no trend
333636091230401	33.61207	-91.38473333	Desha County	-0.03	-0.06	0.951352	-0.02	no trend
333740091225501	33.63017	-91.38310556	Desha County	0.16	0.54	0.591505	0.37	no trend
334605091170501	33.77105	-91.28639722	Desha County	0.01	0.00	1	0.03	no trend
334748091161802	33.79729	-91.27333056	Desha County	0.28	0.94	0.348083	0.38	no trend
335035091290301	33.84289	-91.48476111	Desha County	0.14	0.37	0.710523	0.65	no trend
335304091300501	33.886	-91.50186389	Desha County	-0.03	-0.10	0.921159	-0.05	no trend
335341091152201	33.89611	-91.25578333	Desha County	-0.01	0.00	1	-0.03	no trend
333803091454201	33.63532	-91.76196667	Drew County	-0.54	-2.63	0.008595	-1.68	increasing
333154091340401	33.53172	-91.56788889	Drew County	0.32	1.47	0.142391	0.20	no trend
333649091440001	33.61364	-91.73387778	Drew County	0.17	0.52	0.602168	0.52	no trend
334248091270801	33.71374	-91.45193889	Drew County	0.23	1.04	0.299665	0.33	no trend
334601091412101	33.76714	-91.68954722	Drew County	0.22	0.73	0.465512	0.13	no trend

334632091282601	33.77552	-91.47404444	Drew County	0.21	0.62	0.536187	0.51	no trend
341024092354501	34.17278	-92.593775	Grant County	-0.63	-3.07	0.002172	-0.63	increasing
341341092141401	34.22801	-92.23694722	Grant County	-0.58	-2.85	0.004417	-2.51	increasing
341841092332001	34.31181	-92.55741389	Grant County	-0.64	-2.65	0.008123	-0.87	increasing
341923092382501	34.32327	-92.64079722	Grant County	-0.78	-3.04	0.002358	-0.77	increasing
342846092210601	34.47935	-92.35173333	Grant County	-0.57	-3.02	0.002557	-0.29	increasing
340558092195801	34.09948	-92.33130556	Grant County	0.57	1.86	0.063487	0.27	no trend
341812092265301	34.30278	-92.44715278	Grant County	0.24	1.03	0.303673	0.89	no trend
341839092240204	34.31046	-92.40054167	Grant County	-0.50	-1.77	0.076333	-1.17	no trend
341845092235901	34.31221	-92.40013056	Grant County	-0.31	-1.40	0.160556	-0.55	no trend
342405092345601	34.40139	-92.58222222	Grant County	-0.43	-1.36	0.173546	-0.24	no trend
342559092334501	34.43348	-92.579725	Grant County	-0.38	-1.86	0.062698	-0.39	no trend
341456092415001	34.24986	-92.69753333	Hot Spring County	-0.20	-0.78	0.436275	-0.11	no trend
341026091511601	34.17357	-91.85449444	Jefferson County	-0.68	-3.46	0.000532	-1.15	increasing
341117092050401	34.18765	-92.08542778	Jefferson County	-0.53	-2.18	0.029273	-2.32	increasing
341118092050101	34.18975	-92.084425	Jefferson County	-0.71	-2.35	0.018741	-2.39	increasing
341138091551601	34.1953	-91.92140556	Jefferson County	-0.63	-4.06	4.90E-05	-1.20	increasing
341336092010901	34.22686	-92.01928333	Jefferson County	-0.67	-2.40	0.016489	-3.55	increasing
341446091552601	34.24617	-91.92403889	Jefferson County	-0.67	-2.40	0.016489	-2.91	increasing
341453091544101	34.24787	-91.91116667	Jefferson County	-0.53	-3.15	0.00164	-1.49	increasing
341530091555401	34.25824	-91.93211111	Jefferson County	-0.67	-2.95	0.003192	-2.25	increasing
342218092095701	34.37215	-92.16668611	Jefferson County	-0.45	-2.08	0.037693	-1.25	increasing
342500092043301	34.41675	-92.07616111	Jefferson County	-0.62	-2.87	0.004138	-1.75	increasing
342644092105501	34.44745	-92.18285278	Jefferson County	-0.49	-2.26	0.023988	-0.66	increasing
340547092042001	34.09686	-92.07244722	Jefferson County	-0.31	-1.25	0.212912	-2.14	no trend
340631091452001	34.10908	-91.75638611	Jefferson County	-0.33	-1.68	0.09246	-0.51	no trend
341158092020601	34.19964	-92.03525278	Jefferson County	-0.42	-1.61	0.107405	-1.92	no trend
341634092053401	34.27637	-92.09289167	Jefferson County	-0.57	-1.86	0.063487	-1.68	no trend
341639092053901	34.27628	-92.09521944	Jefferson County	0.11	0.31	0.754454	0.82	no trend
341918091504901	34.31918	-91.848925	Jefferson County	-0.38	-1.43	0.152406	-1.95	no trend
342140091474101	34.361	-91.79495833	Jefferson County	-0.39	-1.36	0.175308	-1.46	no trend
342623091544401	34.43993	-91.91213056	Jefferson County	-0.36	-1.11	0.26551	-2.08	no trend
342626091571301	34.44082	-91.9536	Jefferson County	-0.30	-1.30	0.192616	-1.12	no trend
342627091550201	34.44121	-91.91792778	Jefferson County	-0.43	-1.36	0.173546	-1.57	no trend
331950093330301	33.33061	-93.55082222	Lafayette County	0.82	3.22	0.001282	0.72	decreasing
330223093303301	33.03982	-93.51002222	Lafayette County	-0.60	-2.96	0.003114	-0.29	increasing
330351093310301	33.06443	-93.51760278	Lafayette County	-0.54	-2.50	0.012372	-0.37	increasing
332140093261101	33.36174	-93.43573889	Lafayette County	-0.49	-2.02	0.04296	-2.43	increasing
330911093303801	33.15301	-93.51090833	Lafayette County	0.30	1.30	0.192616	0.32	no trend
331520093312801	33.25544	-93.52433611	Lafayette County	-0.14	-0.66	0.51122	-0.04	no trend
331526093340201	33.25713	-93.56744167	Lafayette County	0.09	0.34	0.731702	0.03	no trend
344203090411604	34.70244	-90.68897222	Lee County	0.89	3.74	0.000186	1.29	decreasing
344743090592401	34.79538	-90.99020556	Lee County	0.79	2.60	0.009375	2.17	decreasing
345011090474901	34.83498	-90.7969	Lee County	-0.29	-0.87	0.386476	-1.12	no trend
340444091504201	34.07887	-91.84523889	Lincoln County	-0.48	-2.13	0.033524	-1.18	increasing
335631091512101	33.94275	-91.85786389	Lincoln County	-0.15	-0.67	0.502158	-0.41	no trend
335907091333301	33.98517	-91.56035	Lincoln County	-0.33	-1.25	0.210498	-1.74	no trend
335955091530101	33.98288	-91.87288889	Lincoln County	0.42	1.71	0.086768	1.56	no trend
340345091344602	34.05265	-91.58155	Lincoln County	-0.14	-0.37	0.710523	-1.05	no trend
343853091500201	34.64844	-91.833	Lonoke County	0.43	2.08	0.037497	0.71	decreasing
344444091450701	34.74037	-91.75091111	Lonoke County	0.72	4.00	6.45E-05	0.81	decreasing
344448091461801	34.74813	-91.77193611	Lonoke County	0.78	4.19	2.83E-05	1.80	decreasing
344652091441901	34.78097	-91.74046667	Lonoke County	1.00	5.56	2.68E-08	1.06	decreasing
344702091414901	34.78062	-91.70260278	Lonoke County	0.65	3.18	0.001497	1.19	decreasing
344906091450001	34.81845	-91.75008333	Lonoke County	0.90	4.98	6.22E-07	0.75	decreasing
344940091472101	34.82751	-91.79361944	Lonoke County	0.48	2.57	0.010279	0.52	decreasing
345145091434701	34.86228	-91.73046389	Lonoke County	0.83	3.02	0.002499	1.28	decreasing
345403091493501	34.9007	-91.82631667	Lonoke County	0.97	4.32	1.56E-05	1.31	decreasing
343235091470001	34.54319	-91.78341389	Lonoke County	-0.56	-1.98	0.047604	-1.77	increasing
343227091522701	34.54102	-91.87569167	Lonoke County	-0.23	-1.22	0.224134	-0.21	no trend
343246091582302	34.54625	-91.97361111	Lonoke County	0.04	0.12	0.902705	0.04	no trend
330719093534401	33.12225	-93.89500278	Miller County	0.00	0.00	1	-0.02	no trend
345043091102601	34.84506	-91.173775	Monroe County	0.58	2.97	0.002985	0.43	decreasing
344139091054202	34.69452	-91.09558611	Monroe County	0.18	0.95	0.344418	0.05	no trend

344145091175601	34.69554	-91.30031111	Monroe County	-0.22	-1.09	0.276278	-0.58	no trend
334154093010901	33.6954	-93.01792778	Ouachita County	0.89	3.23	0.001229	0.70	decreasing
332234092402701	33.37603	-92.67420278	Ouachita County	-0.92	-5.61	1.99E-08	-2.47	increasing
332305092543401	33.38632	-92.91001667	Ouachita County	-0.84	-5.73	1.01E-08	-0.71	increasing
332415092431301	33.40466	-92.7206	Ouachita County	-0.90	-5.15	2.59E-07	-1.42	increasing
332437093043102	33.41056	-93.07552778	Ouachita County	-0.80	-5.31	1.09E-07	-0.43	increasing
332804092525101	33.46761	-92.88088333	Ouachita County	-0.85	-5.65	1.59E-08	-0.61	increasing
333234092505501	33.54278	-92.84861111	Ouachita County	-0.59	-2.75	0.006044	-0.48	increasing
333234092525201	33.54389	-92.88184444	Ouachita County	-0.49	-3.46	0.000537	-0.18	increasing
333416092445101	33.57117	-92.74739722	Ouachita County	-0.47	-3.02	0.002541	-0.80	increasing
333819093000601	33.63885	-93.00196944	Ouachita County	-0.60	-3.20	0.001391	-0.17	increasing
333934092420601	33.66265	-92.71781111	Ouachita County	-0.68	-4.40	1.09E-05	-1.28	increasing
334218092391401	33.70648	-92.65623333	Ouachita County	-0.61	-4.04	5.29E-05	-1.03	increasing
334342092483501	33.72809	-92.80950278	Ouachita County	-0.55	-2.69	0.00722	-0.34	increasing
334443092372501	33.74469	-92.62377222	Ouachita County	-0.35	-2.11	0.034955	-0.23	increasing
332330092471702	33.39222	-92.79138889	Ouachita County	-0.36	-1.75	0.079802	-2.81	no trend
332618093031801	33.43844	-93.05510278	Ouachita County	-0.30	-1.30	0.192616	-0.31	no trend
332812092463901	33.47101	-92.77764444	Ouachita County	-0.16	-1.00	0.319008	-0.41	no trend
332918092570301	33.48822	-92.95110278	Ouachita County	0.12	0.59	0.558351	0.07	no trend
332942093051301	33.49485	-93.08706389	Ouachita County	-0.10	-0.70	0.483403	-0.06	no trend
333000092534501	33.50061	-92.89595556	Ouachita County	-0.11	-0.74	0.456658	-0.07	no trend
333252092492601	33.54799	-92.82412222	Ouachita County	-0.27	-1.40	0.162805	-0.32	no trend
333340092595801	33.56203	-92.99900556	Ouachita County	-0.03	-0.15	0.879573	-0.01	no trend
333435093041701	33.57607	-93.07161389	Ouachita County	0.05	0.25	0.804625	0.02	no trend
333858093014801	33.65031	-93.02943611	Ouachita County	-0.18	-1.05	0.293917	-0.06	no trend
333937092544201	33.66033	-92.91163056	Ouachita County	0.07	0.38	0.704853	0.02	no trend
333942092425201	33.65817	-92.70300556	Ouachita County	-0.32	-1.89	0.058862	-0.63	no trend
334018092594801	33.67055	-92.99758611	Ouachita County	-0.06	-0.39	0.693012	-0.09	no trend
334614092575901	33.77063	-92.96648056	Ouachita County	0.35	1.78	0.074825	0.07	no trend
334631092492701	33.77538	-92.82429444	Ouachita County	-0.24	-1.19	0.234955	-0.15	no trend
343322090505601	34.55652	-90.84896389	Phillips County	-0.51	-2.38	0.017343	-0.48	increasing
341822090512401	34.30724	-90.85668611	Phillips County	-0.16	-0.62	0.533417	-0.28	no trend
342403090491401	34.4008	-90.82071944	Phillips County	-0.09	-0.31	0.755497	-0.13	no trend
342856090363601	34.48078	-90.60984444	Phillips County	-0.47	-1.79	0.073638	-1.58	no trend
343110090352501	34.51898	-90.59045556	Phillips County	-0.07	-0.23	0.814783	-0.19	no trend
343242090390201	34.54524	-90.65193889	Phillips County	-0.41	-1.89	0.058588	-1.35	no trend
343324090544601	34.55694	-90.91513889	Phillips County	-0.03	-0.14	0.892558	-0.04	no trend
352946090435601	35.49953	-90.73122222	Poinsett County	0.64	3.02	0.002564	1.44	decreasing
354156090455701	35.69917	-90.76666667	Poinsett County	0.83	5.10	3.41E-07	0.78	decreasing
344704091403301	34.78516	-91.675825	Prairie County	0.59	3.41	0.000652	1.11	decreasing
344718091404901	34.7884	-91.68054167	Prairie County	0.78	4.19	2.83E-05	1.06	decreasing
343639091335201	34.61109	-91.56441389	Prairie County	0.10	0.44	0.661416	0.21	no trend
343748091365401	34.63028	-91.61506667	Prairie County	-0.35	-1.94	0.052861	-0.77	no trend
343826091361301	34.64056	-91.60361111	Prairie County	-0.17	-1.06	0.290561	-0.28	no trend
343859091361301	34.64986	-91.60354722	Prairie County	-0.30	-1.42	0.15463	-0.73	no trend
343902091353101	34.65111	-91.59211944	Prairie County	-0.17	-0.86	0.392314	-0.48	no trend
343943091384501	34.66195	-91.64615833	Prairie County	-0.28	-1.49	0.137347	-0.58	no trend
344113091350401	34.68697	-91.58479722	Prairie County	0.10	0.49	0.620691	0.09	no trend
344444091365801	34.74511	-91.61693333	Prairie County	0.16	0.79	0.42848	0.12	no trend
344644091382801	34.77893	-91.64151944	Prairie County	-0.24	-1.28	0.201612	-0.33	no trend
344649091280101	34.78031	-91.4671	Prairie County	-0.41	-1.89	0.058588	-2.00	no trend
344653091380001	34.78157	-91.63352222	Prairie County	-0.24	-1.28	0.201612	-0.28	no trend
344659091293702	34.78306	-91.49361111	Prairie County	0.08	0.49	0.626496	0.04	no trend
345451091304202	34.91435	-91.51180833	Prairie County	0.03	0.09	0.928179	0.02	no trend
345446091063501	34.91289	-91.10947222	St. Francis County	0.56	2.62	0.008706	0.85	decreasing
330410092171601	33.06979	-92.28799444	Union County	0.65	3.71	0.000206	1.08	decreasing
330651092212001	33.10513	-92.35373889	Union County	0.89	5.32	1.05E-07	0.72	decreasing
330107092432301	33.01913	-92.72376111	Union County	-0.82	-5.44	5.31E-08	-2.77	increasing
330219092111201	33.03829	-92.18695278	Union County	-0.48	-3.28	0.001056	-0.50	increasing
330255092122901	33.04872	-92.208	Union County	-0.49	-3.16	0.001588	-0.46	increasing
330324092084501	33.05806	-92.1511	Union County	-0.51	-3.45	0.000565	-0.32	increasing
330452092560701	33.08103	-92.93552778	Union County	-0.61	-4.14	3.44E-05	-0.60	increasing
330455092515201	33.08264	-92.86411111	Union County	-0.91	-4.71	2.51E-06	-4.71	increasing
330631092370801	33.10998	-92.6187	Union County	-0.74	-3.61	0.000302	-4.58	increasing

330651092212002	33.114	-92.3556	Union County	-0.54	-3.01	0.002638	-0.87	increasing
330657092385901	33.11648	-92.64957778	Union County	-0.87	-5.81	6.24E-09	-4.71	increasing
330807092381001	33.13541	-92.63626566	Union County	-0.85	-3.58	0.000342	-27.20	increasing
330809092461101	33.13577	-92.76988333	Union County	-0.90	-5.97	2.39E-09	-4.13	increasing
330855092505601	33.14886	-92.84902222	Union County	-0.99	-7.08	1.47E-12	-3.33	increasing
330959092444501	33.16677	-92.74592222	Union County	-0.69	-2.68	0.00729	-6.90	increasing
331011092431701	33.16979	-92.72121389	Union County	-0.83	-5.68	1.35E-08	-4.98	increasing
331024092422901	33.17465	-92.70884722	Union County	-0.79	-4.69	2.76E-06	-6.48	increasing
331040092353101	33.17756	-92.59190833	Union County	-0.87	-4.82	1.44E-06	-7.30	increasing
331041092431401	33.17809	-92.72058333	Union County	-1.00	-3.34	0.000837	-6.64	increasing
331057092555901	33.18081	-92.93752778	Union County	-0.68	-4.19	2.85E-05	-2.62	increasing
331104092380201	33.18438	-92.63392222	Union County	-0.90	-4.21	2.56E-05	-4.21	increasing
331107092380201	33.18528	-92.63388889	Union County	-1.00	-3.34	0.000837	-3.87	increasing
331142092411801	33.19585	-92.68798333	Union County	-0.96	-6.07	1.28E-09	-7.35	increasing
331144092410601	33.19549	-92.68468611	Union County	-0.91	-5.39	7.13E-08	-6.09	increasing
331145092413001	33.19696	-92.69083611	Union County	-1.00	-3.34	0.000837	-0.90	increasing
331205092291601	33.20005	-92.48769444	Union County	-0.50	-3.17	0.001521	-3.69	increasing
331217092362801	33.20485	-92.6079312	Union County	-0.82	-4.05	5.10E-05	-6.48	increasing
331223092392201	33.20914	-92.65659167	Union County	-0.89	-5.48	4.18E-08	-7.83	increasing
331223092392401	33.20652	-92.65654468	Union County	-0.93	-3.89	9.92E-05	-4.97	increasing
331256092483702	33.21569	-92.81044711	Union County	-0.97	-6.26	3.85E-10	-3.98	increasing
331346092391101	33.2128	-92.65271667	Union County	-0.98	-6.84	7.75E-12	-5.37	increasing
331351092572701	33.21595	-92.89876111	Union County	-0.67	-4.59	4.46E-06	-2.34	increasing
331354092322401	33.23177	-92.54004722	Union County	-0.95	-6.15	7.89E-10	-3.72	increasing
331438092411901	33.24416	-92.69144722	Union County	-0.98	-6.97	3.28E-12	-5.53	increasing
331450092320101	33.24758	-92.53327778	Union County	-0.49	-3.05	0.002289	-0.65	increasing
331458092320201	33.24911	-92.53423889	Union County	-0.68	-4.49	7.13E-06	-0.61	increasing
331505092402701	33.25133	-92.67428056	Union County	-0.99	-6.25	4.08E-10	-5.90	increasing
331645092413301	33.27933	-92.69249722	Union County	-0.99	-6.43	1.28E-10	-4.31	increasing
331649092423301	33.27975	-92.70797222	Union County	-0.96	-6.07	1.28E-09	-5.45	increasing
331700092484201	33.28344	-92.81166667	Union County	-0.94	-5.23	1.68E-07	-3.61	increasing
331701092322901	33.28361	-92.54138889	Union County	-0.78	-2.81	0.004879	-3.93	increasing
331717092412801	33.28808	-92.69136111	Union County	-0.98	-5.81	6.34E-09	-5.86	increasing
331805092570902	33.30166	-92.952475	Union County	-0.65	-4.23	2.34E-05	-1.17	increasing
331900092395602	33.31664	-92.66610278	Union County	-0.81	-4.96	6.91E-07	-4.03	increasing
331944092321701	33.3289	-92.53835833	Union County	-0.78	-5.44	5.28E-08	-2.56	increasing
332138092450701	33.36154	-92.75148056	Union County	-0.98	-5.65	1.62E-08	-2.84	increasing
332205092433001	33.3683	-92.72461111	Union County	-0.97	-6.75	1.48E-11	-2.21	increasing
330409092171301	33.0693	-92.28708422	Union County	0.07	0.18	0.858028	0.23	no trend
330531092364201	33.09279	-92.61244722	Union County	-0.25	-1.64	0.101537	-1.93	no trend
330915092265301	33.15291	-92.44330833	Union County	-0.18	-1.07	0.284322	-0.47	no trend
331143092411901	33.19568	-92.68785833	Union County	-0.34	-1.64	0.100518	-0.19	no trend
331205092221901	33.20058	-92.37195	Union County	-0.18	-0.75	0.45067	-1.27	no trend