# *Arkansas Groundwater Protection and Management Report for 2016*

May 2017

**To manage and protect groundwater resources in Arkansas for human, environmental, and economic benefits.**

**STATE OF ARKANSAS**

**ARKANSAS NATURAL RESOURCES COMMISSION**
101 EAST CAPITOL, SUITE 350
LITTLE ROCK, ARKANSAS 72201

**Asa Hutchinson**
**GOVERNOR**

**COMMISSIONERS**

| | | |
|---|---|---|
| Fred Fowlkes<br>Vice Chairman<br>Vilonia | Bill Poynter<br>Commissioner<br>Chidester | Ann Cash<br>Commissioner<br>Lake Village |
| Bruce Leggitt<br>Commissioner<br>Greenbrier | Sloan Hampton<br>Commissioner<br>Stuttgart | James Neal Anderson<br>Commissioner<br>Lonoke |
| Roy Reaves<br>Commissioner<br>Russellville | Don Richardson<br>Chairman<br>Clinton | Jerry Hunton<br>Commissioner<br>Prairie Grove |

Bruce Holland
Executive Director

Ryan Benefield, P.E.
Deputy Director

**Arkansas Natural Resources Commission**
**Ground-Water Management and Protection Section Staff**

| | |
|---|---|
| Edward Swaim | Chief, Water Resources Management Division |
| James L. Battreal, P.G. | Geology Supervisor |
| Jacob Harvey | Water Well Inspector/Geologist |
| Tim Dreher | Engineer Technician |
| Jackie Broach | Administrative Analyst |


## ACKNOWLEDGEMENTS

Special thanks to:

Chris Kelley, ANRC GIS Analyst.

Jaysson Funkhouser, Anna Nottmeier, Drew Westerman, and all the staff who contributed form the USGS Water Resources Division, Little Rock, Arkansas.

United States Department of Agriculture Natural Resources Conservation Service.


Report compiled and written by James L. Battreal, P.G.

# Table of Contents

# Figures

# Tables



# Appendices

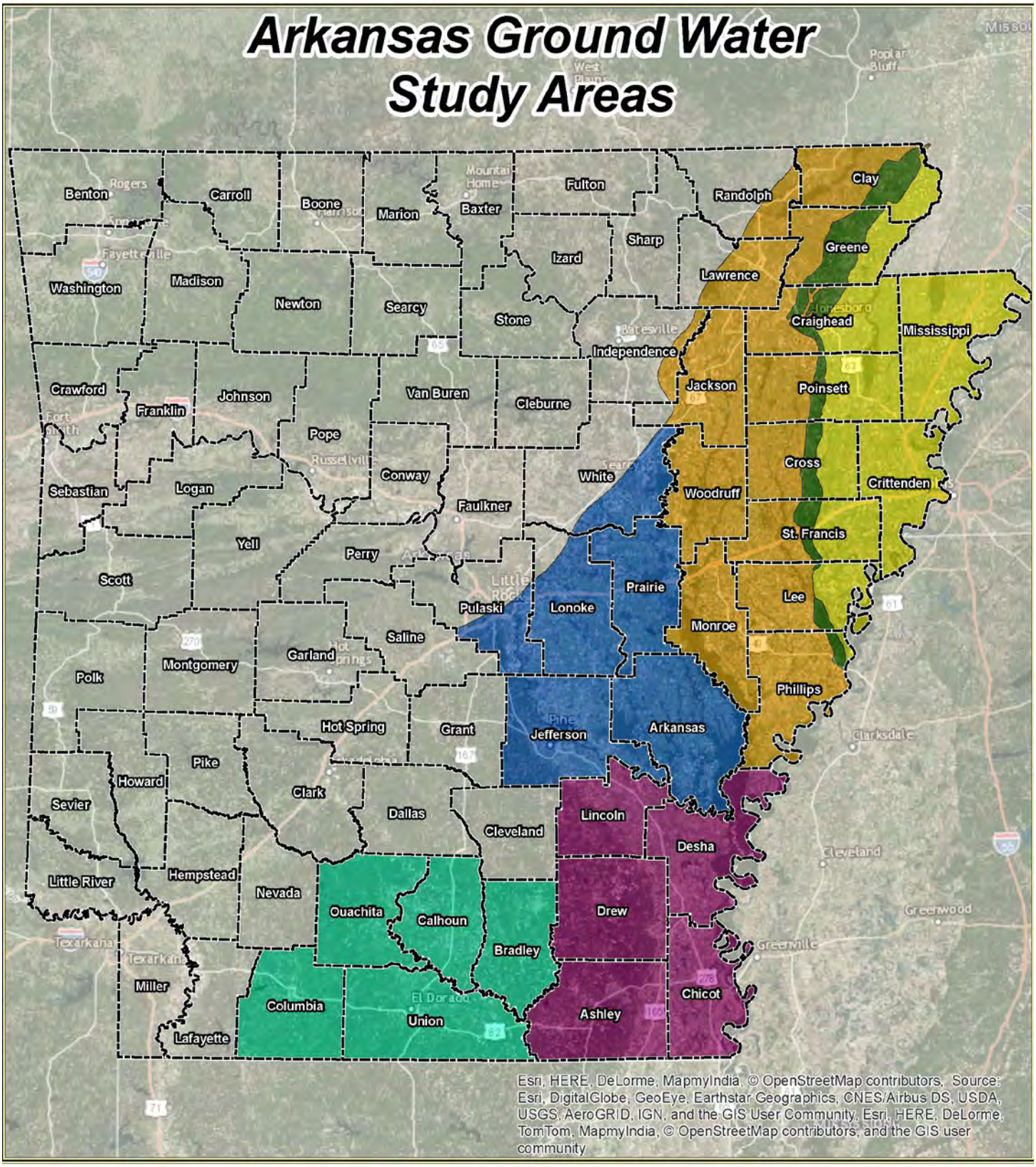
## ABSTRACT

The Arkansas Groundwater Protection and Management Report is produced annually by the Arkansas Natural Resources Commission (ANRC) pursuant to the Arkansas Ground Water 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 ANRC during the year 2016, including water-level monitoring and studies of water use trends in the state. This report covers water-level data from the spring of 2015 to the spring of 2016. This monitoring period consisted of above average precipitation with an average of 64.03 inches of rainfall, and as a result, short-term water-level comparisons for the state's aquifers showed more increases due to the decrease in need of pumping the aquifer. The general trend in Arkansas's long-term water-level change is that the groundwater levels are declining in response to continued withdrawals at a rate which is not sustainable. Based on 2015 water use data, only approximately 44.2 percent of the current alluvial aquifer withdrawal of 7,636.08 million gallons per day, and approximately 55% percent of the Sparta/Memphis aquifer withdrawal of 160 million gallons per day is sustainable. At these pumping rates, water-level declines and the adverse impacts on the state's ground-water system will continue to be observed. As the competition for ground water becomes more intense, the challenge before Arkansas' water resources users, scientists, and conservationists, is to continue to work toward conservation, education, and the conjunctive use of groundwater and excess surface water in a manner that brings about the wise and sustainable use of our valuable water resources.


## INTRODUCTION

This annual groundwater report is prepared to provide the State of Arkansas with a comprehensive water-quantity and water-quality document to be utilized, in accordance 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 data from the Arkansas Water Well Construction Commission.

# Arkansas Ground Water Study Areas




## Legend

- Boeuf - Tensas
- Cache
- Grand Prairie
- South Arkansas
- St. Francis
- Crowleys Ridge
- County Boundaries

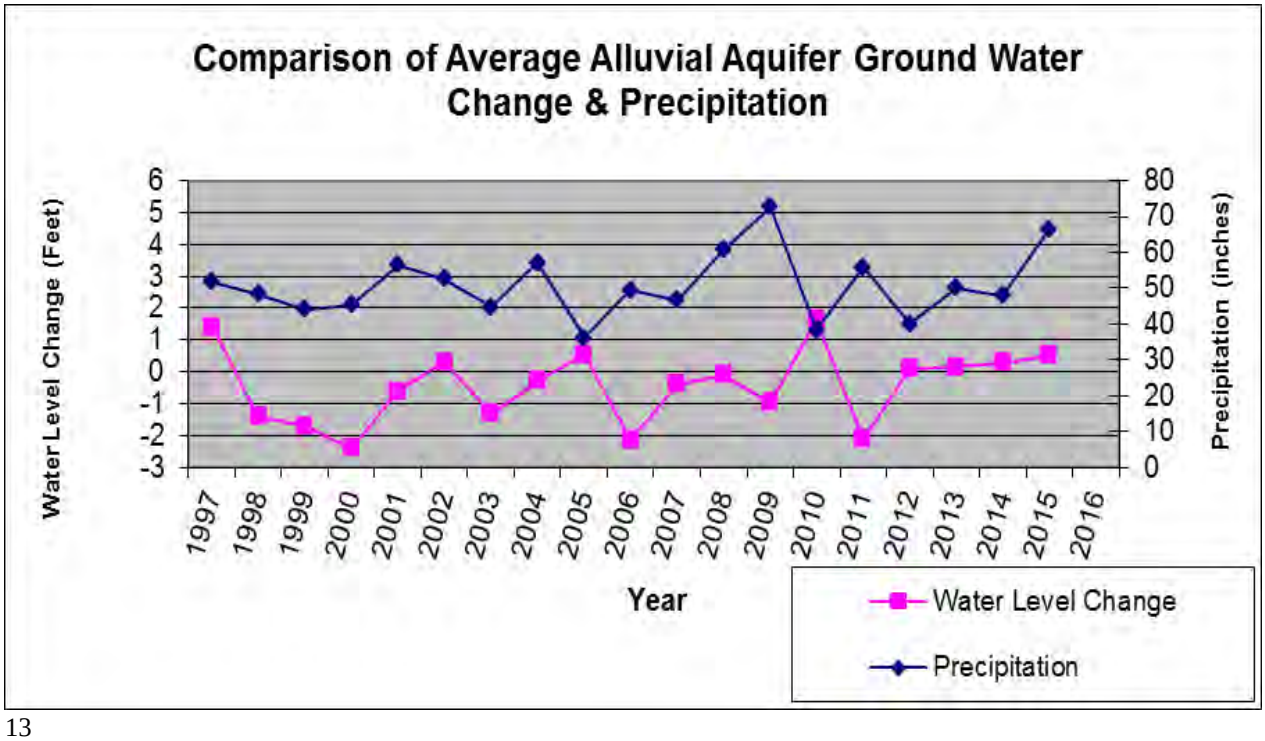
N

0 12.5 25 50 75 100 Miles

Fig. 1

This report is built on a strong cooperative program with other appropriate state, federal, and local water resources agencies. Each spring approximately 600 wells are monitored in the alluvial aquifer resulting in the largest number of water-level measurements for any one aquifer in the state. This number will vary from year to year depending on the resources available. There are approximately 200-300 wells that are monitored each year for water levels in the Sparta/Memphis aquifer. A monitoring schedule has been established to obtain data from the alluvial aquifer and the Sparta/Memphis aquifer on an annual basis. These measurements are taken each spring so as to be the least affected by seasonal pumping for irrigation. The drawdown that results from seasonal pumping is also determined by the NRCS and ANRC taking measurements of the alluvial aquifer in both the spring and fall. The USGS also maintains the Arkansas Masterwell Program that supplies long term groundwater quality monitoring in 25 wells from 14 aquifers. These Masterwells are located throughout 21 counties and each year 5 sites are sampled for a variety of water-quality constituents. Hydrogeologic data is collected statewide, however resources are focused on study areas where water-level declines and water-quality degradation have been observed historically.

The amount of rainfall is taken into account each monitoring period to observe the change of water levels during times of drought or excess rainfall. The monitoring period which covers the calendar year of 2016 for static water level change in the alluvial aquifer was completed in the spring. The data for 2015-2016 indicates a decline in 133 of 227 wells, with an aquifer-wide average change of +0.52 feet in water levels during this time.



There are areas of the state experiencing ground-water withdrawals of such magnitude that demand on the aquifer exceeds the sustainable yield, resulting in consistently falling ground-water levels and the development of cones of depression. These areas occur in both the alluvial and Sparta/Memphis aquifers. Water-level declines are consistently observed in areas where water use is highest, such as portions of the Grand Prairie Study Area, and in the Cache Study Area west of Crowley's Ridge.

Water quality data collected by the USGS shows wells with an increased specific conductance (>/= 1,000 microsiemens/cm) in the alluvial aquifer in Arkansas, Cross, Desha, Greene, Lincoln, Prairie and Chicot counties. (Schrader, T.P., 2010) An increase in the level of specific conductance indicates an increased level of dissolved solids in the groundwater. In certain areas these dissolved solids are chlorides leading to the groundwater becoming unsuitable for particular irrigation purposes.

## WATER POLICY

Water-resources policy in Arkansas was established in the Arkansas Water Plan in 1991, in which the ANRC advocates 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. It is hoped that protection of the State's groundwater resources can be achieved through these measures rather than management strategies that may require allocation of water. If conservation and the development of excess surface water are not successfully implemented in the impaired areas in the future, the State will have to consider regulatory alternatives to preserve the aquifers at a sustainable level. All water-use strategies must consider the wise use of our State's water resources while protecting the sustainable yield of the State's aquifers. Stream flow needs of the State's surface-water flow system must also be taken into account if our water resources are to be protected for future generations to utilize and enjoy. The ANRC advocates that the State move toward a sustainable yield pumping strategy through conservation, and utilizing Critical Groundwater Area designation wherever needed to focus resources. Designation as a Critical Groundwater Area brings about enhanced tax credits for conservation activities, educational programs, and sets the area as a priority for possible federal programs and funding. This is a non-regulatory designation. Regulation cannot be initiated without a new process involving legal proceedings, additional notice, and public hearings. Designation as a Critical Groundwater Area allows for programs that include tax incentives for the instillation of water conservation practices.

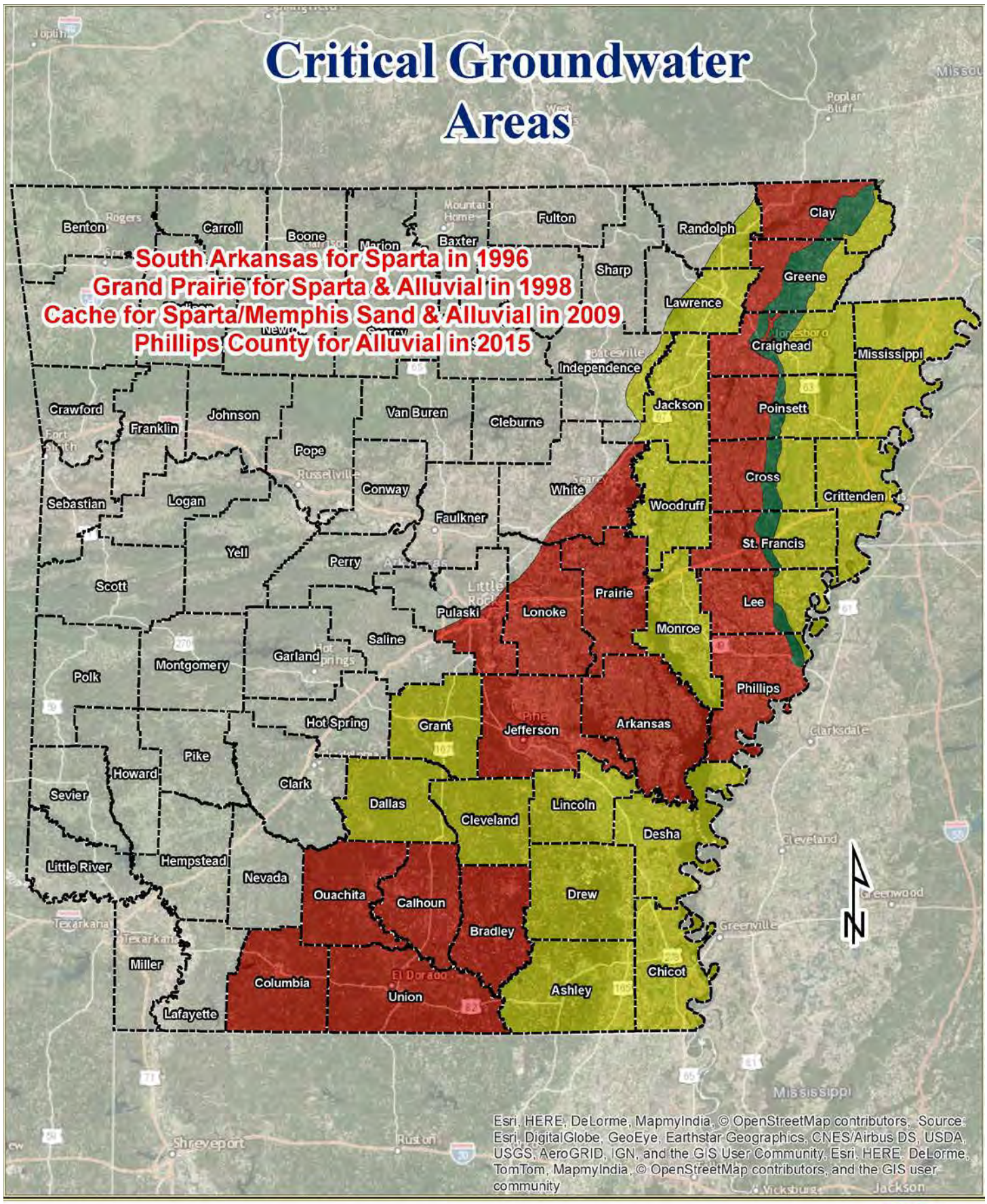

Critical Groundwater Areas
South Arkansas for Sparta in 1996
Grand Prairie for Sparta & Alluvial in 1998
Cache for Sparta/Memphis Sand & Alluvial in 2009
Phillips County for Alluvial in 2015
Benton
Carroll
Boone
Marion
Baxter
Fulton
Randolph
Clay
Sharp
Greene
Lawrence
Craighead
Mississippi
Independence
Crawford
Franklin
Johnson
Van Buren
Cleburne
Jackson
Poinsett
Pope
Conway
White
Cross
Crittenden
Sebastian
Logan
Faulkner
Woodruff
Yell
Perry
St. Francis
Scott
Prairie
Lee
Pulaski
Lonoke
Monroe
Saline
Garland
Montgomery
Polk
Phillips
Hot Spring
Grant
Jefferson
Arkansas
Pike
Howard
Clark
Sevier
Dallas
Cleveland
Lincoln
Desha
Little River
Hempstead
Nevada
Ouachita
Calhoun
Drew
Bradley
Miller
Columbia
Union
Ashley
Chicot
Lafayette
Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, DeLorme, TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS user community
Legend
Current Critical Areas
Current Study Areas
Crowleys Ridge
County Boundaries
0 10 20 40 60 80
Miles

Fig. 2

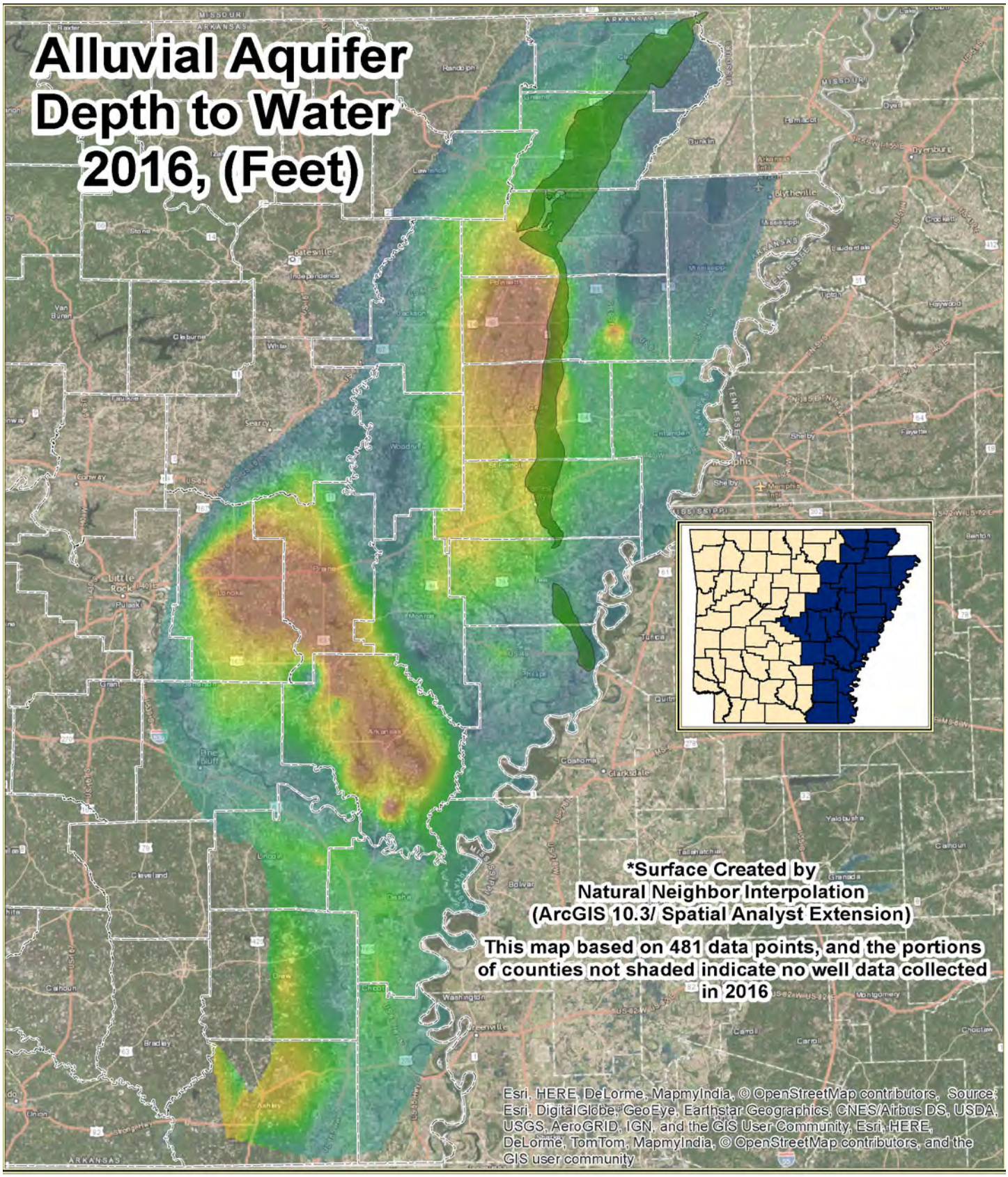
# Hydrogeology and Statewide Water-Level Trends

## Alluvial Aquifer

The Mississippi River Valley alluvial aquifer extends north from Arkansas into Missouri, south into Louisiana, and under the Mississippi River into Tennessee and Mississippi. For the purpose of this report, the term alluvial aquifer refers to the portion of the aquifer inside the state boundaries of Arkansas. This area generally is bounded by 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 aquifer is the uppermost aquifer in the Mississippi Embayment and is composed of 50 to 150 feet of sand and gravel, grading from coarse gravel at the bottom to fine sand at the top. It generally is overlain by the Mississippi River Confining Unit, which is composed of 0 to 50 feet of fine-grained sand, silt, and clay. The alluvial aquifer is underlain by confining units composed of aquifers and confining units of the Mississippi Embayment, which are less permeable than the alluvial aquifer. The alluvial aquifer is connected hydraulically with several rivers and drainage areas. (Ackerman, 1996)

Due mostly to the use of groundwater for agriculture in the region, the aquifer has been pumped in ever-increasing amounts since records were kept from the early 1900's. In 2015 Arkansas had groundwater withdrawals estimated to be 8264.60 million gallons per day (Mgal/d). That is approximately a 552% increase from the amount used in 1965. (Holland, T.W. 2005)

In 2015 there was 7636.08 Mgal/d pumped from the alluvial aquifer. The estimated sustainable yield for the alluvial aquifer is 3374.33 Mgal/d, leaving an unmet demand of 4261.75 Mgal/d (55.8%). Ground water furnishes 63% of the state's total consumption of water, and 95% of the ground water used comes from the alluvial aquifer. Agriculture accounts for 98% of the total water that is pumped from the alluvial aquifer. Figure 3 is an illustration of the 2016 depth to water. Increased pumping from this aquifer has resulted in decreased outflow to rivers, increased inflow from rivers, increased inflow from the overlying confining unit, regional changes in ground-water flow, regional water level declines, reduction of aquifer storage, and decreases in well yields.




**Legend**

**Alluvial Depth to Water**

- 0 to 17 Ft.
- 18 Ft. to 29 Ft.
- 30 Ft. to 42 Ft.
- 43 Ft. to 56 Ft.
- 57 Ft. to 72 Ft.
- 73 Ft. to 91 Ft.
- 92 Ft. to 111 Ft.
- 112 Ft. to 145 Ft.

N

0 10 20 40 60 Miles

Fig. 3

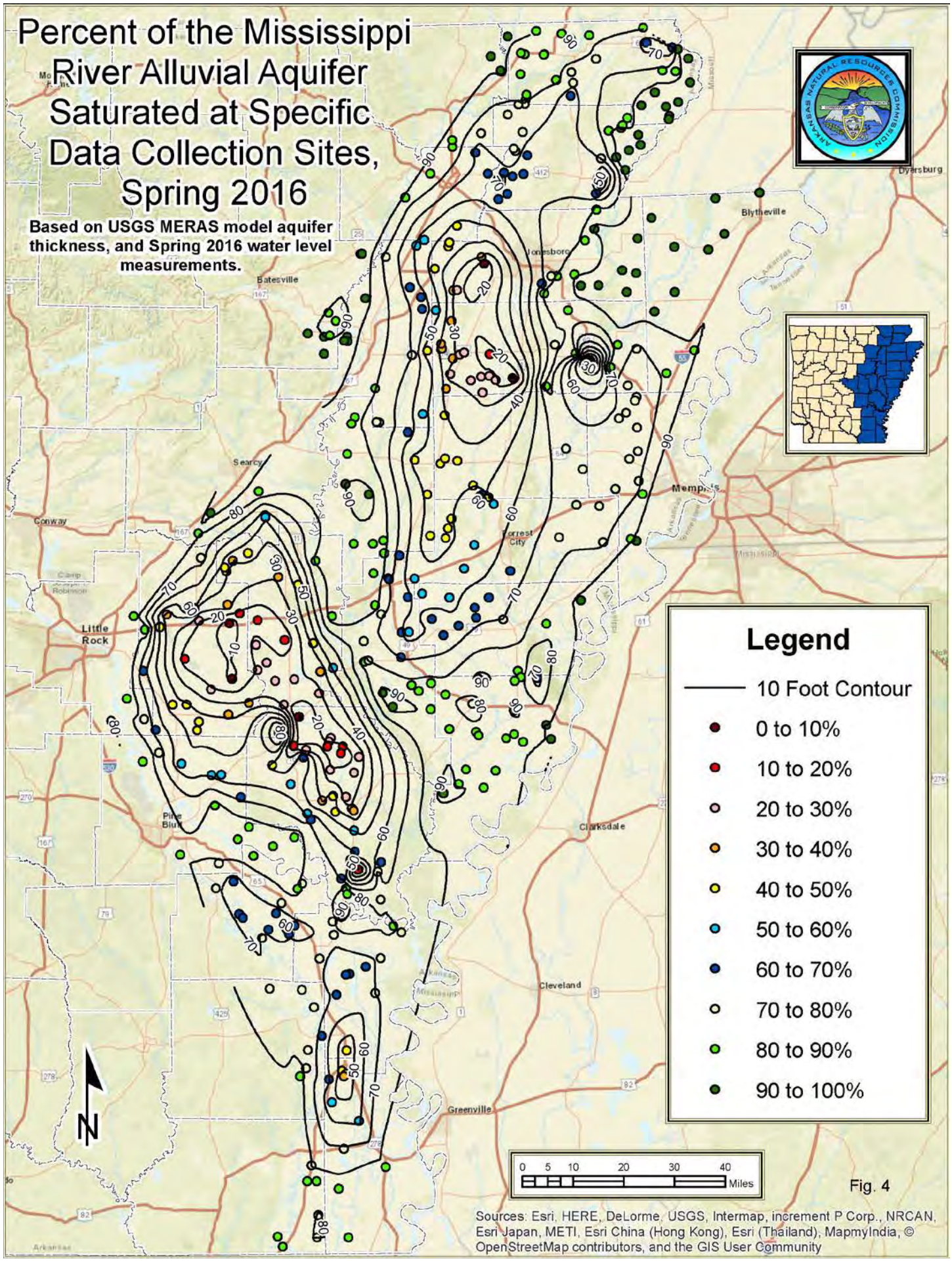
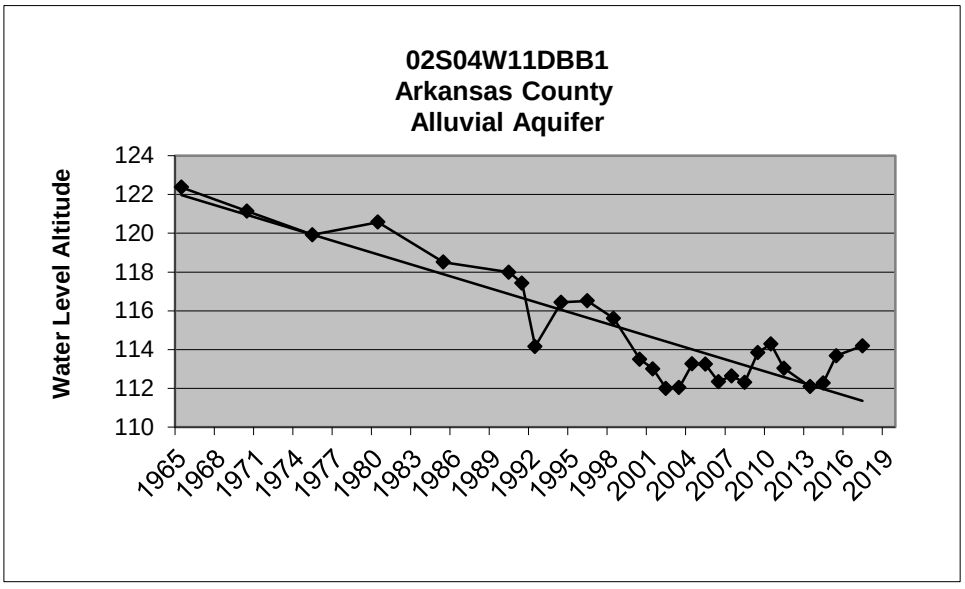



Fig. 4

Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

There were 227 alluvial aquifer wells monitored for water-level change in both 2015 and 2016, out of these 133 (58.6%) had a decline in the static water level. The overall aquifer water-level average change was +0.52 ft. The 2015-16 average precipitation for Arkansas from March to March was approximately 64.03 inches, which is above the statewide average of 49.19 inches. Of 308 alluvial aquifer wells monitored in both 2011 and 2016, 173 (56.2%) of these had declining static water levels. Over a 10-year period of time from 2006 to 2016, 250 of 394 wells (63.5%) monitored showed declines in the alluvial aquifer. The average change over the entire aquifer during the 2015-2016 monitoring period was +0.52 feet, the 5-year average change was -0.17 feet, and the 10-year average change was -1.70 feet respectively. There are still significant cones of depression in the alluvial aquifer, especially in the Grand Prairie and in the Cache Study Area west of Crowley's Ridge. (Fig. 3) The data in this year's report shows near stable water levels in all study areas for the one year averages, however declines due to over-use still exist and are apparent in the 10-year averages as well as the period of record. Appendix A is a table of specific water level monitoring data for the alluvial aquifer. The one year water-level change data reflects the higher than normal rainfall during the period of spring 2015 to spring 2016. During such years, ground-water withdrawals are reduced, while recharge is typically greater.



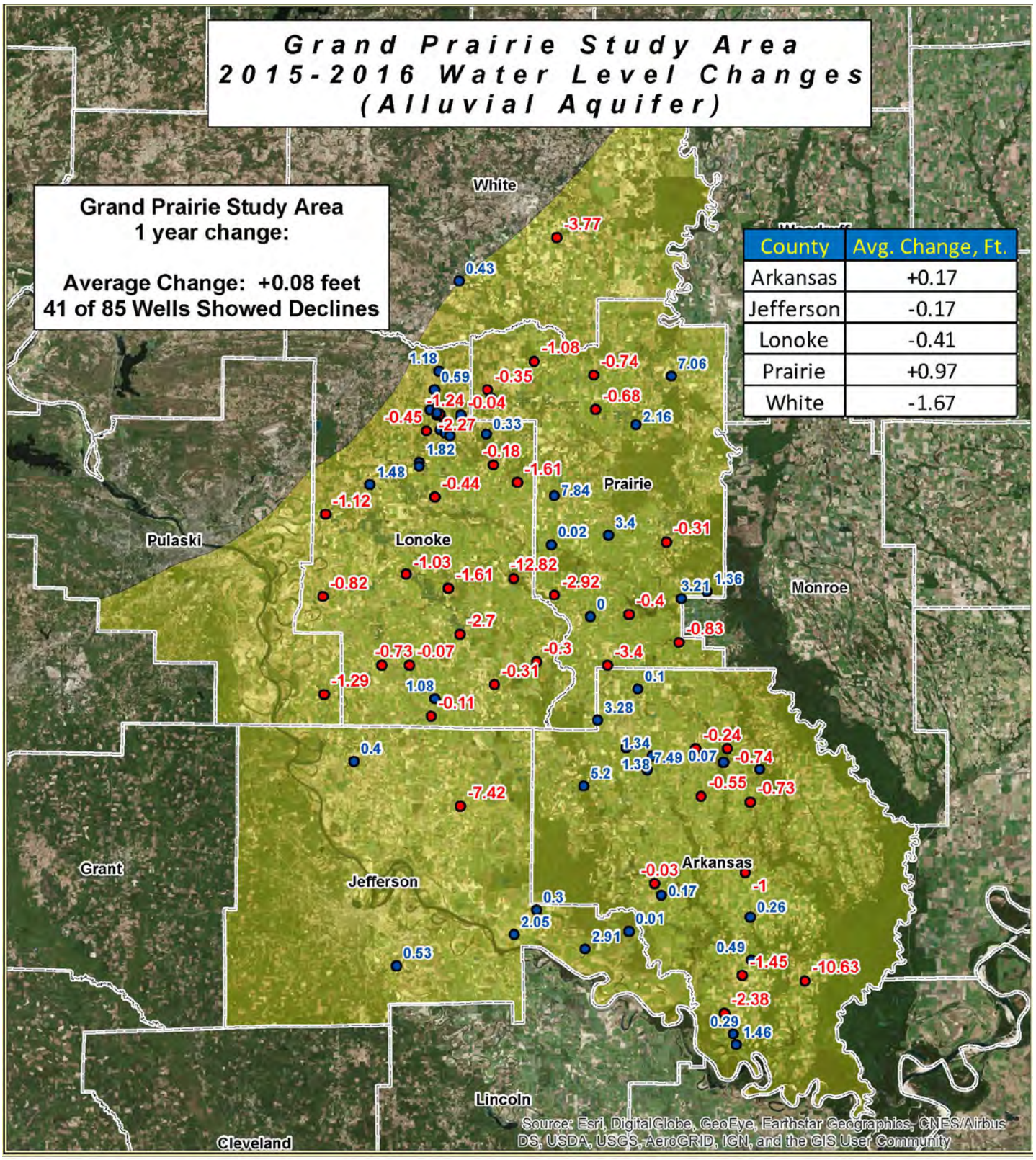
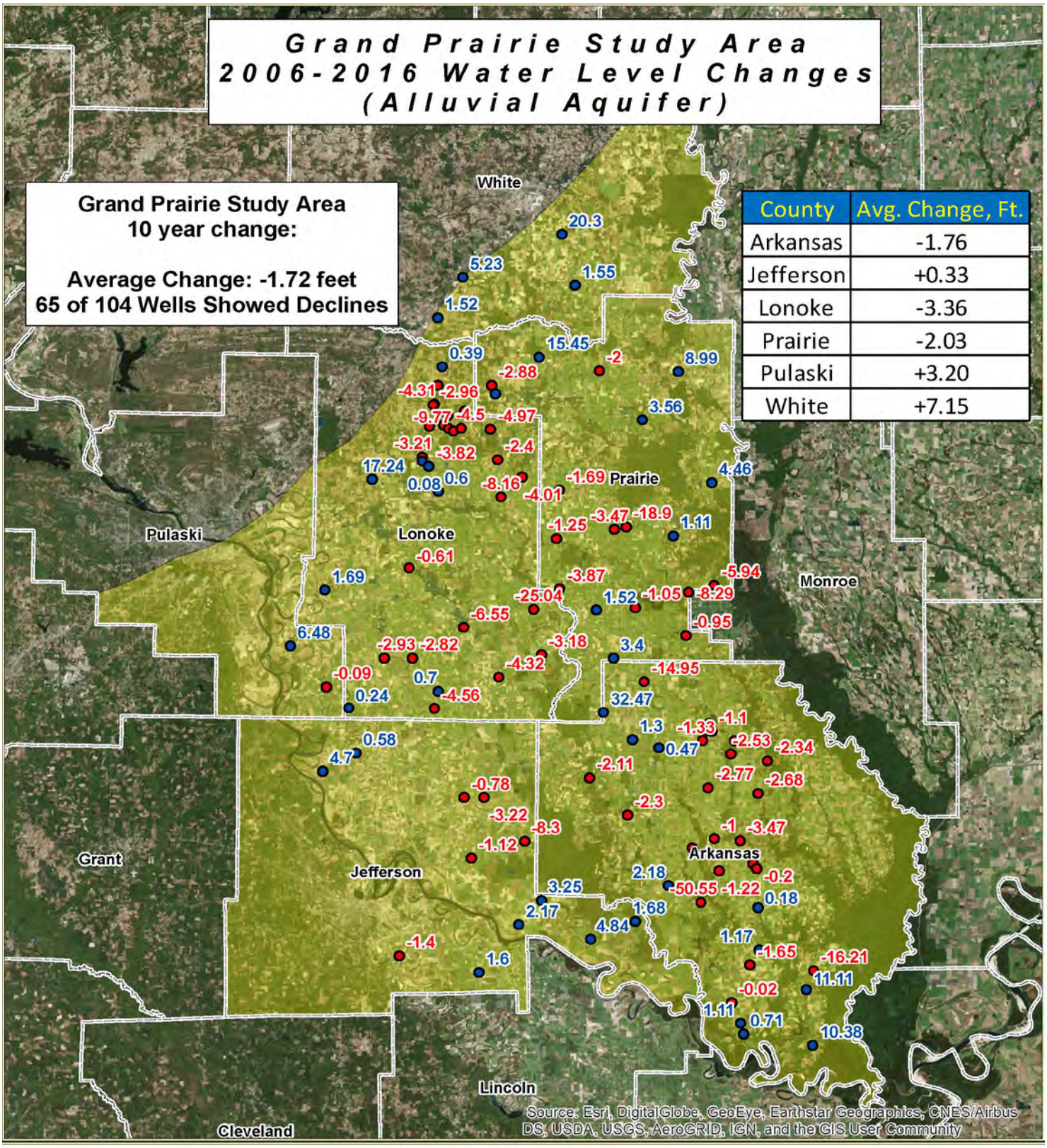

Grand Prairie Study Area
2015-2016 Water Level Changes
(Alluvial Aquifer)
Grand Prairie Study Area
1 year change:
Average Change: +0.08 feet
41 of 85 Wells Showed Declines
County | Avg. Change, Ft.
Arkansas | +0.17
Jefferson | -0.17
Lonoke | -0.41
Prairie | +0.97
White | -1.67
White
Pulaski
Lonoke
Prairie
Monroe
Grant
Jefferson
Arkansas
Lincoln
Cleveland
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
0 5 10 20 30
Miles
Legend
Wells with No Change or Increases
Wells with Declines
Grant Prairie Study Area

Fig. 5




## Legend

- Wells with Increases
- Wells with Declines
- Grand Prairie Study Area

0 5 10 20 30 Miles

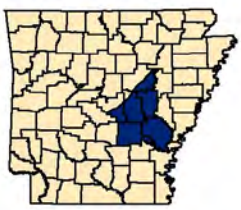
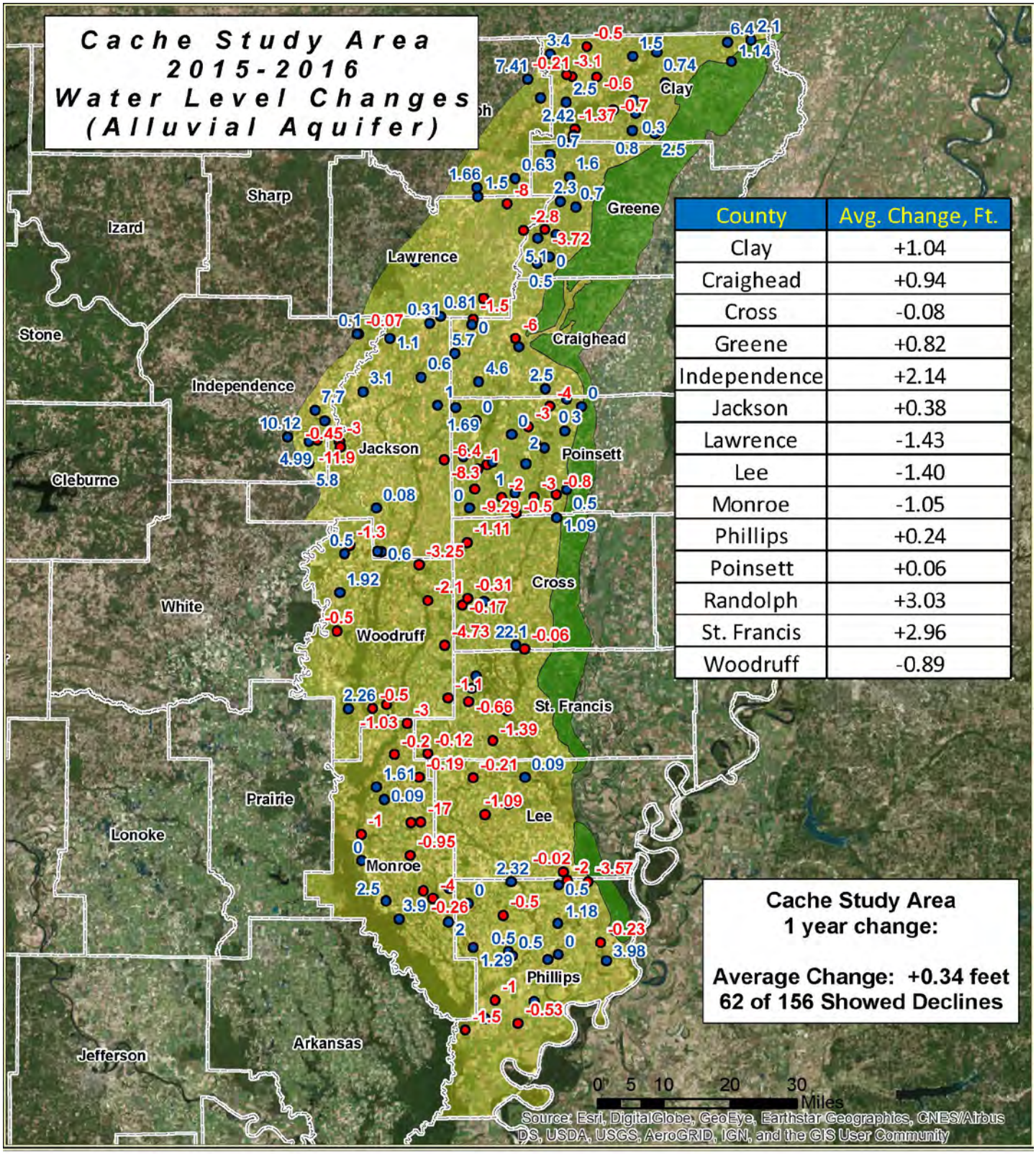


Fig. 6




| County | Avg. Change, Ft. |
|---|---|
| Clay | +1.04 |
| Craighead | +0.94 |
| Cross | -0.08 |
| Greene | +0.82 |
| Independence | +2.14 |
| Jackson | +0.38 |
| Lawrence | -1.43 |
| Lee | -1.40 |
| Monroe | -1.05 |
| Phillips | +0.24 |
| Poinsett | +0.06 |
| Randolph | +3.03 |
| St. Francis | +2.96 |
| Woodruff | -0.89 |

**Cache Study Area**
**1 year change:**

**Average Change: +0.34 feet**
**62 of 156 Showed Declines**

## Legend

- Wells with No Change or Increases
- Wells with Declines
- Crowleys Ridge
- Cache Study Area

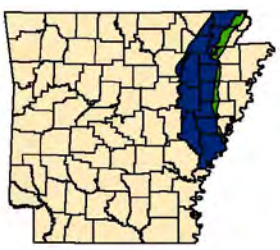
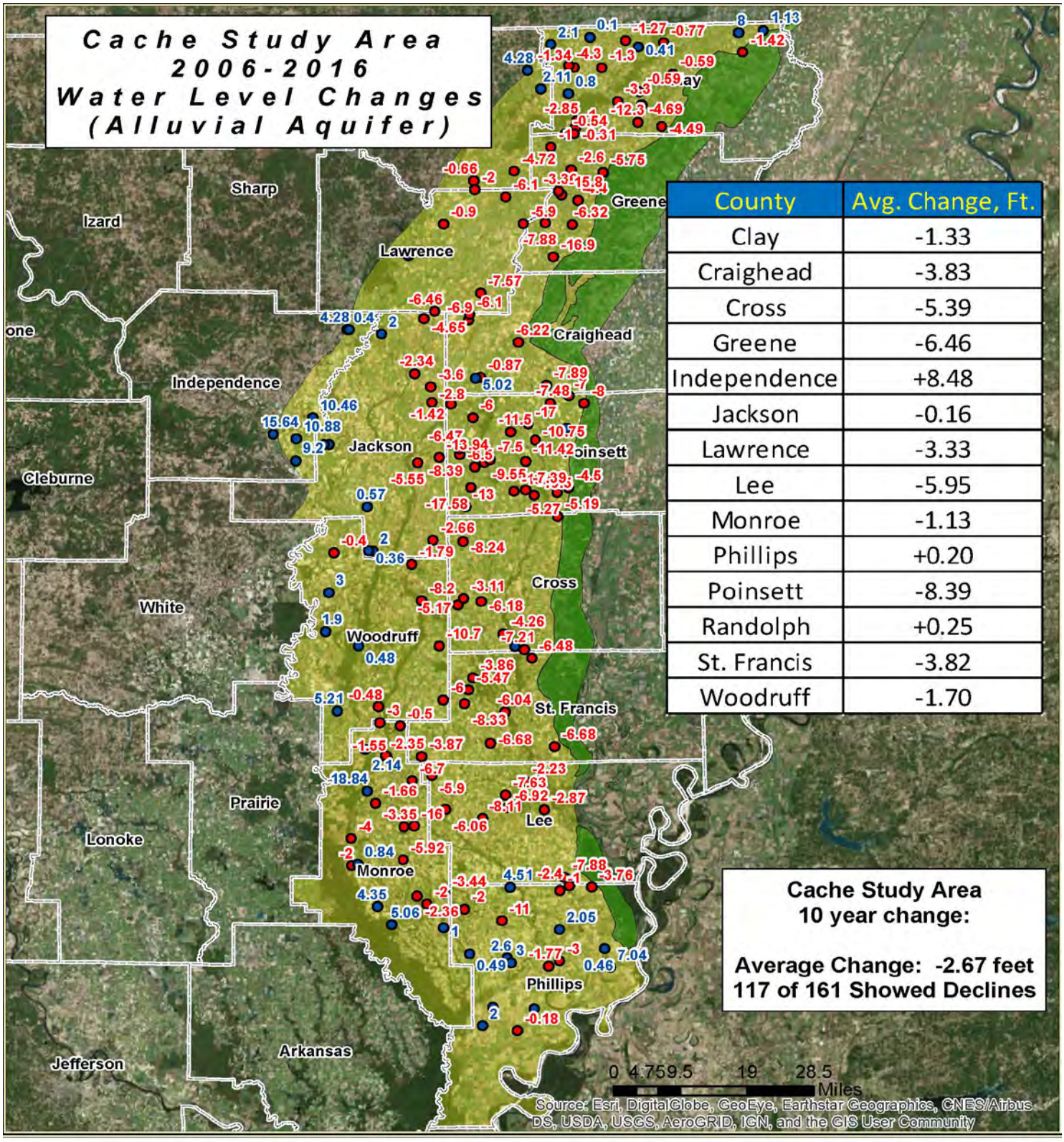


Fig. 7




| County | Avg. Change, Ft. |
|---|---|
| Clay | -1.33 |
| Craighead | -3.83 |
| Cross | -5.39 |
| Greene | -6.46 |
| Independence | +8.48 |
| Jackson | -0.16 |
| Lawrence | -3.33 |
| Lee | -5.95 |
| Monroe | -1.13 |
| Phillips | +0.20 |
| Poinsett | -8.39 |
| Randolph | +0.25 |
| St. Francis | -3.82 |
| Woodruff | -1.70 |

**Cache Study Area**
**10 year change:**

**Average Change: -2.67 feet**
**117 of 161 Showed Declines**

## Legend

- Well with No Change or Increases
- Wells with Declines
- Crowleys Ridge
- Cache Study Area

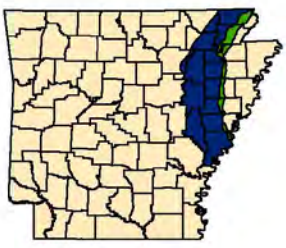
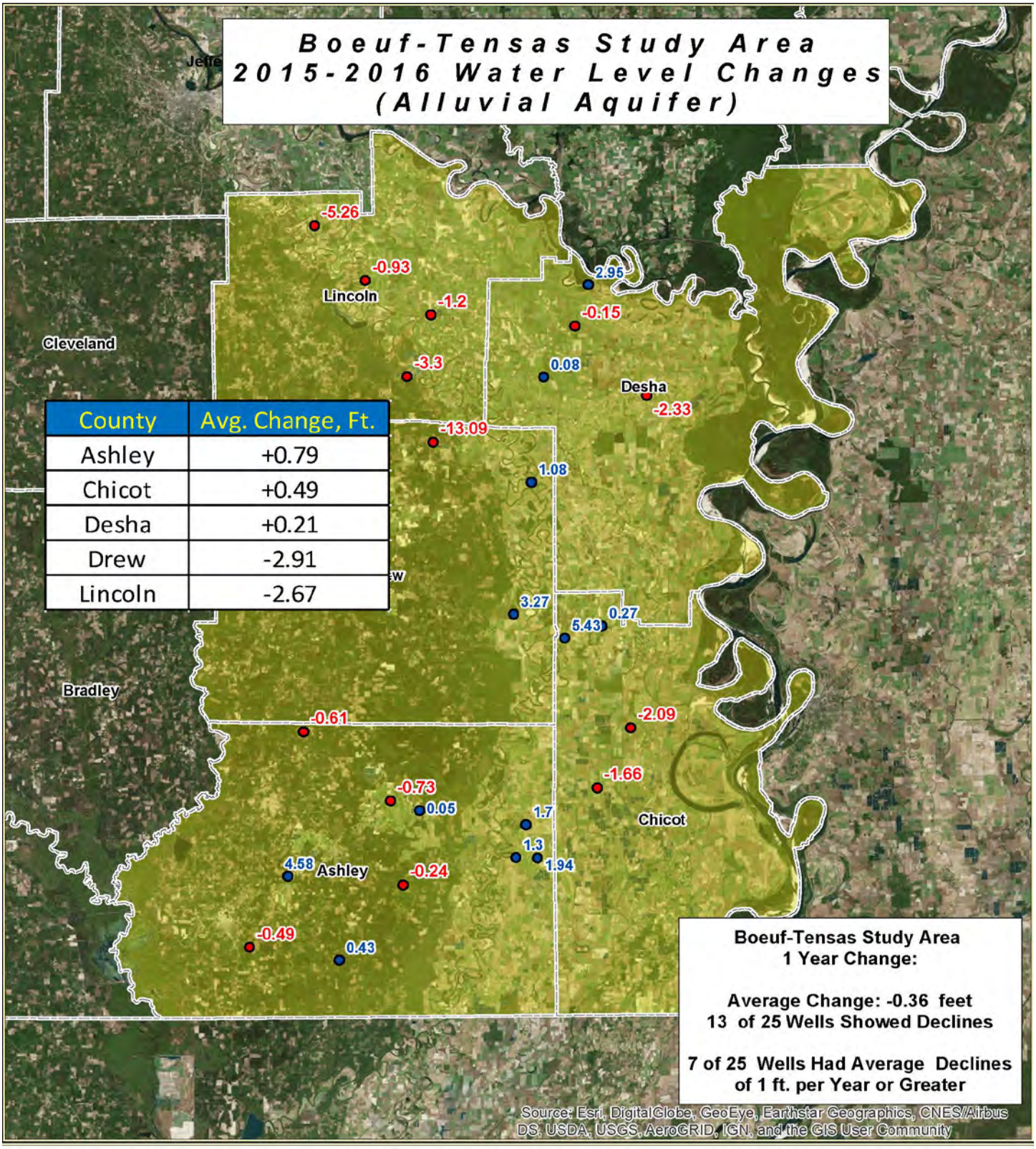


Fig. 8

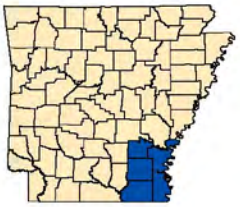



| County | Avg. Change, Ft. |
|---|---|
| Ashley | +0.79 |
| Chicot | +0.49 |
| Desha | +0.21 |
| Drew | -2.91 |
| Lincoln | -2.67 |

## Legend

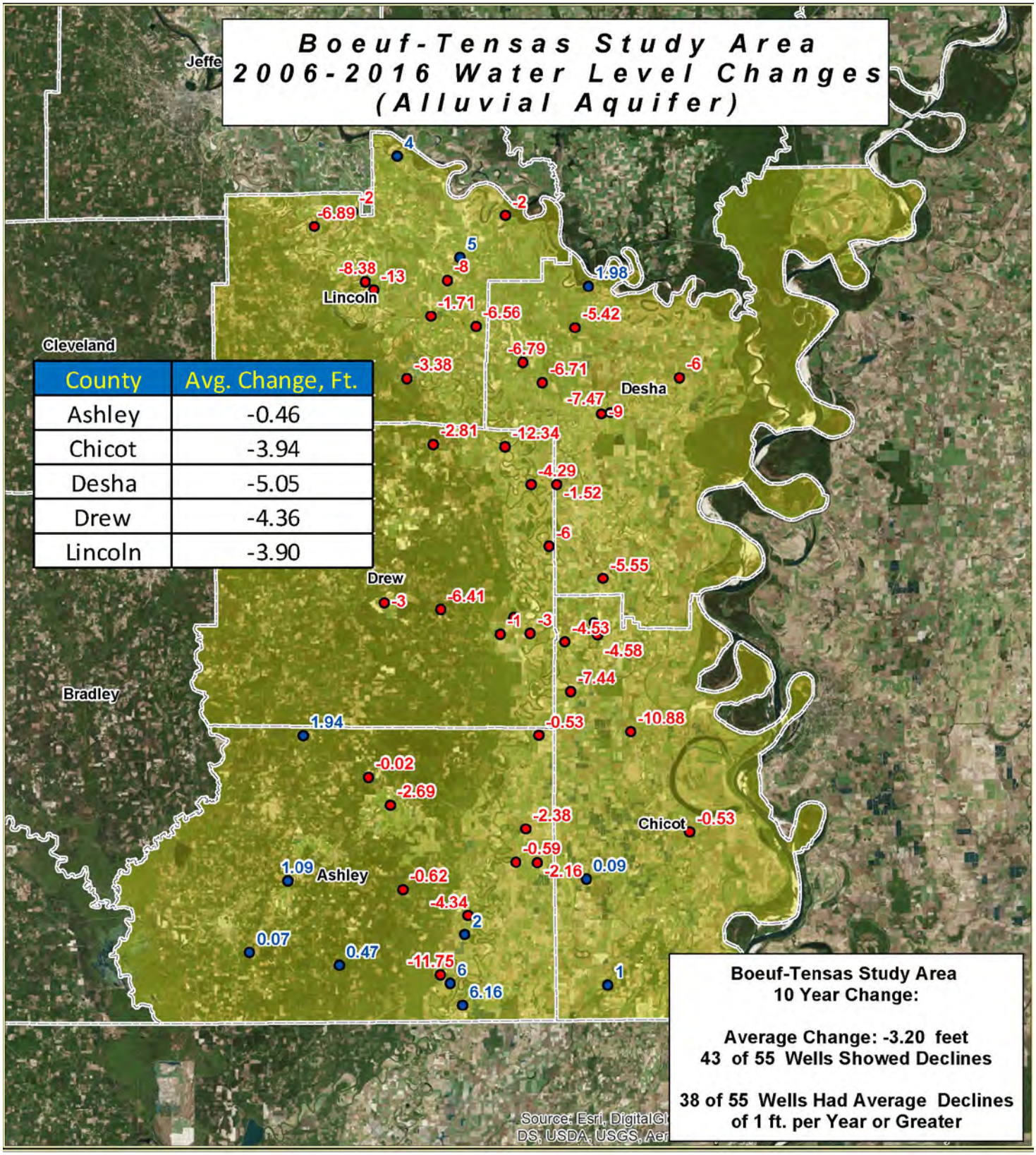
- Wells with Increases
- Wells with Declines
- Boeuf-Tensas Study Area

0 4.5 9 18 27 Miles



N

Fig. 9




| County | Avg. Change, Ft. |
|---|---|
| Ashley | -0.46 |
| Chicot | -3.94 |
| Desha | -5.05 |
| Drew | -4.36 |
| Lincoln | -3.90 |

**Boeuf-Tensas Study Area**
**10 Year Change:**

**Average Change: -3.20 feet**
**43 of 55 Wells Showed Declines**

**38 of 55 Wells Had Average Declines of 1 ft. per Year or Greater**

## Legend

- Wells with Increases
- Wells with Declines
- Boeuf-Tensas Study Area

0 4.5 9 18 27 Miles

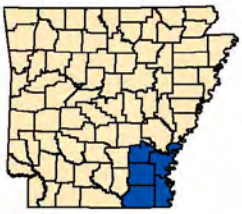
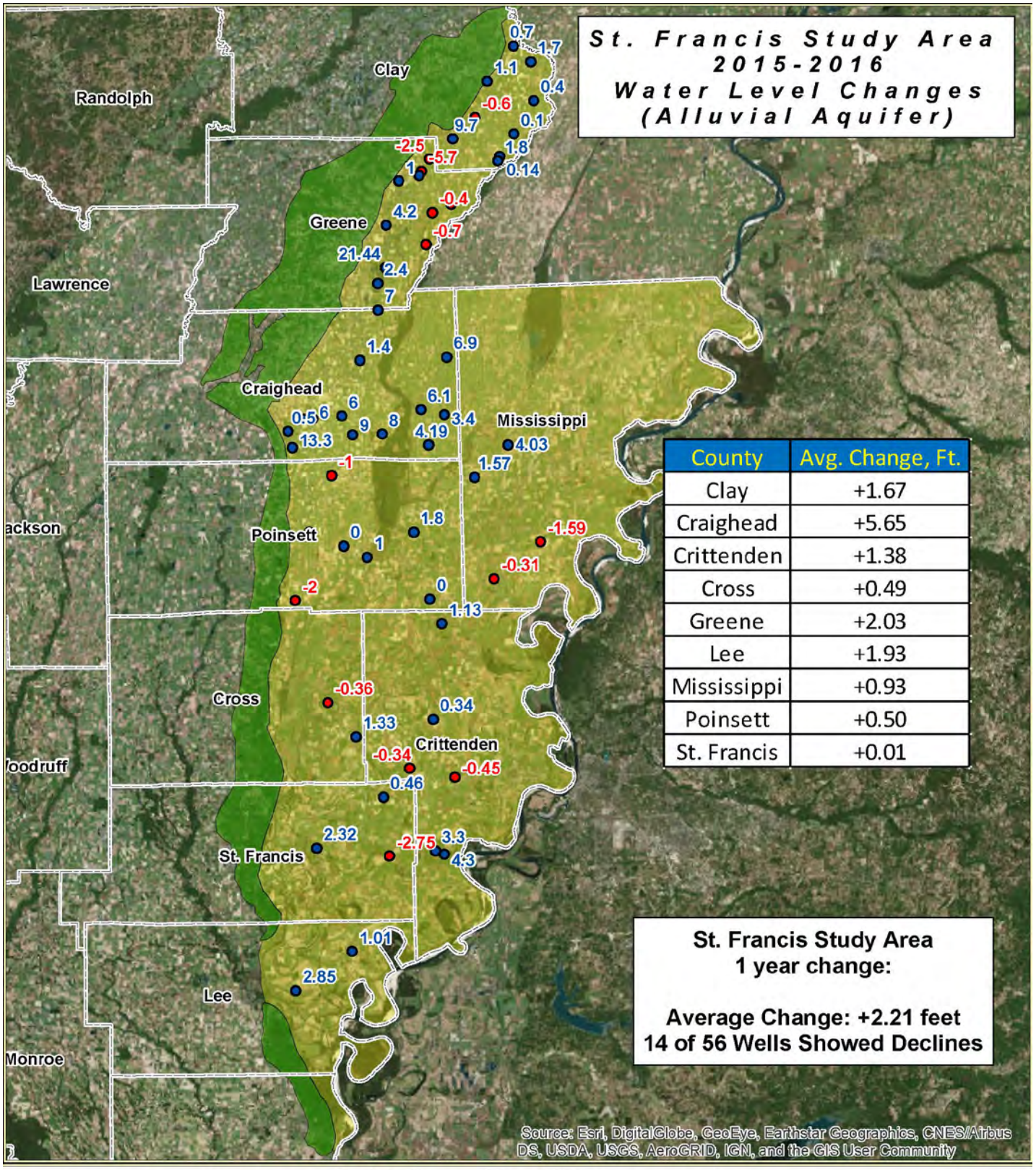



Fig. 10




| County | Avg. Change, Ft. |
|---|---|
| Clay | +1.67 |
| Craighead | +5.65 |
| Crittenden | +1.38 |
| Cross | +0.49 |
| Greene | +2.03 |
| Lee | +1.93 |
| Mississippi | +0.93 |
| Poinsett | +0.50 |
| St. Francis | +0.01 |

0 4.5 9 18 27 Miles

## Legend

- Wells with No Change or Increases
- Wells with Declines
- Crowleys Ridge
- St. Francis Study Area

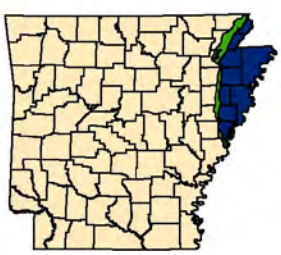


Fig. 11

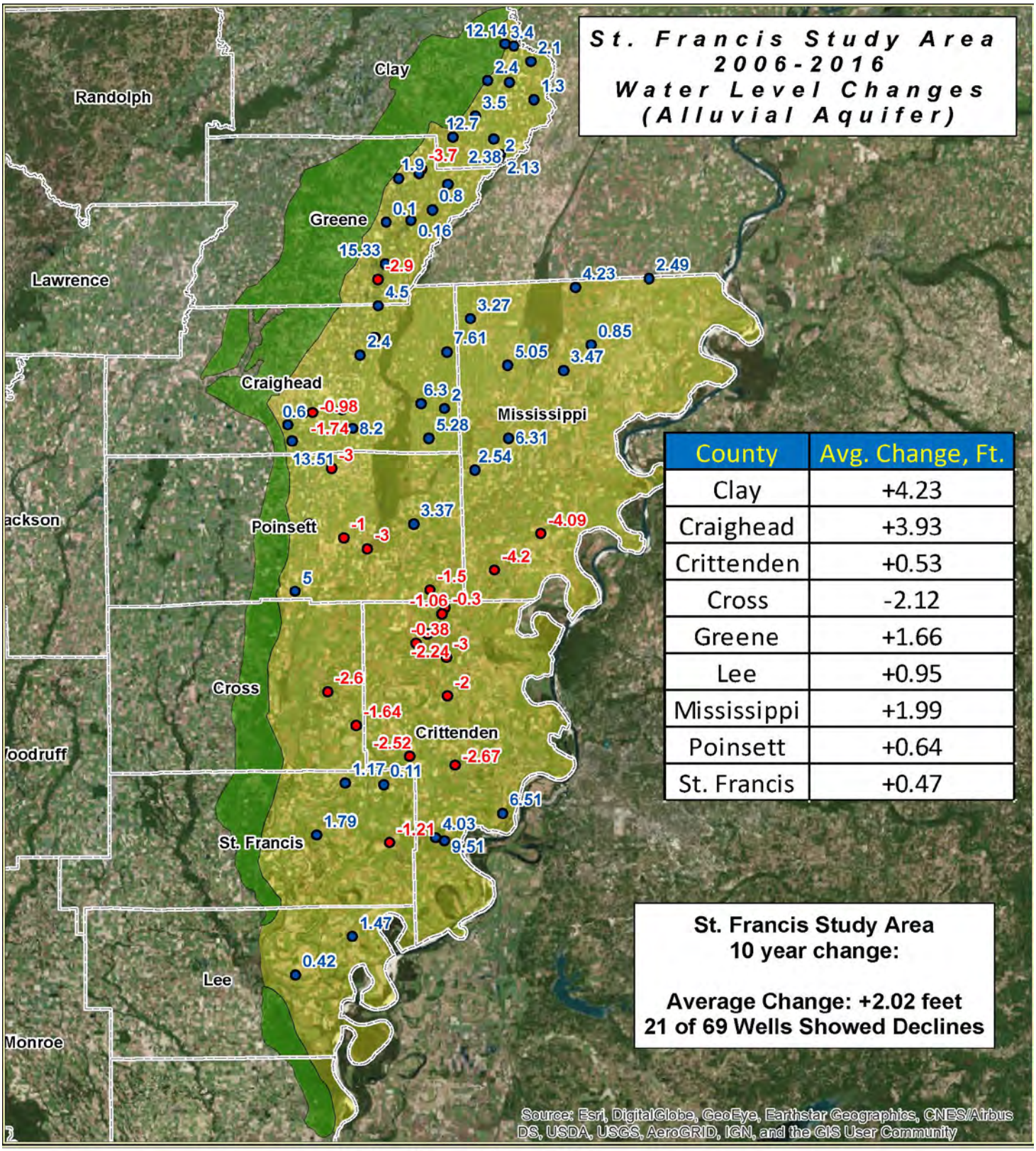

St. Francis Study Area
2006-2016
Water Level Changes
(Alluvial Aquifer)
Randolph
Clay
Greene
Lawrence
Craighead
Mississippi
Poinsett
Cross
Crittenden
St. Francis
Lee
Monroe
12.14
3.4
2.1
2.4
1.3
3.5
12.7
2
2.38
2.13
1.9
-3.7
0.8
0.1
0.16
15.33
-2.9
4.5
4.23
2.49
3.27
0.85
2.4
7.61
5.05
3.47
6.3
2
0.6
-0.98
-1.74
8.2
5.28
6.31
13.51
-3
2.54
3.37
-1
-3
-4.09
-4.2
5
-1.5
-1.06
-0.3
-0.38
-2.24
-3
-2.6
-2
-1.64
-2.52
-2.67
1.17
0.11
6.51
1.79
-1.21
4.03
9.51
1.47
0.42
County | Avg. Change, Ft.
Clay | +4.23
Craighead | +3.93
Crittenden | +0.53
Cross | -2.12
Greene | +1.66
Lee | +0.95
Mississippi | +1.99
Poinsett | +0.64
St. Francis | +0.47
St. Francis Study Area
10 year change:
Average Change: +2.02 feet
21 of 69 Wells Showed Declines
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
0 4.5 9 18 27
Miles
Legend
Wells wih No Change or Increases
Wells with Declines
Crowleys Ridge
St. Francis Study Area
N

Fig. 12

## Sparta/Memphis Aquifer

The Sparta/Memphis aquifer of Tertiary Age is located in the south, southeast, and east regions of Arkansas, as well as portions of Texas, Louisiana, and Mississippi. The aquifer outcrops in Dallas, Hot Spring, Saline, Grant, Nevada, Columbia, and Ouachita counties throughout the state. The Sparta/Memphis Sand aquifer thickness averages approximately 600 feet, ranging from a thickness of approximately 200 to 300 feet thick in the outcrop area to about 900 feet thick in the southeastern part of the state. The majority of the area discussed in this report is a confined aquifer underlain by the Cane River Formation and overlain by the Cook Mountain Formation, both of which are effective confining units.

The Sparta aquifer in south Arkansas consists of two units, separated by the confining unit located between them: the upper Greensand aquifer and the lower El Dorado aquifer. The Sparta is composed mainly of sand with considerable amounts of silt, clay, shale, and lignite, which are found in lenses throughout the unit. Lithologically, it varies considerably both vertically and laterally. Glauconite, a green hydrous potassium iron silicate mineral, is sometimes found in sand lenses in the upper levels of the aquifer, hence the name "Greensand".

The Memphis Sand aquifer in eastern Arkansas is part of a thick sand section in the middle and lower portions of the Claiborne Group. It includes the Sparta Sand, the predominantly sandy facies of the Cane River, and the Carrizo Sand. The Memphis aquifer is the major source of quality drinking water in the area.

Groundwater levels were collected from 163 water wells in the Sparta/Memphis aquifer throughout the south and east portions of Arkansas in 2015 and 2016. Seventy-nine of the wells monitored (48.5%) showed declines in the static water level. The average change over the entire aquifer during the 2015-2016 monitoring period was -0.59 feet. During the monitoring period from 2011 to 2016, 194 wells were monitored for water-level change, with 83 of these wells (42.8%) showing a decline in static water levels. During the 10-year monitoring period, 168 wells were monitored with 64 (38.1%) of these wells showing declines. Appendix B is a table of specific water-level monitoring data for the Sparta/Memphis aquifer. The USGS Conjunctive Use Optimization Model estimates that only 55% percent of the withdrawal average of 160 Mgal/d is sustainable for the Sparta/Memphis aquifer. (Czarnecki, Clark, and Stanton, 2003)

# Sparta Aquifer Depth to Water 2016, (Feet)

*Surface Created by Natural Neighbor Interpolation (ArcGIS 10.3/ Spatial Analyst Extension)

This map based on 259 data points, and the portions of counties not shaded indicate no well data collected in 2016



* Contour lines are at 20 foot intervals

**Legend**

Depth to Water Feet

- 5.84 ft. to 45.99 ft.
- 46.00 ft. to 75.95 ft.
- 75.96 ft. to 103.63 ft.
- 103.64 ft. to 132.30 ft.
- 132.31 ft. to 163.91 ft.
- 163.92 ft. to 202.18 ft.
- 202.19 ft. to 249.04 ft.
- 249.05ft. to 372.46 ft.
- County Boundaries

N W E S

0 10 20 40 60 Miles

Fig. 13

Data beginning in 1965 has been plotted as hydrographs for selected wells throughout the study area. Trend line analysis indicates that the general trend for most wells included in this study is that of a lowered potentiometric surface. This decline in potentiometric surface in the aquifer can be attributed to a statewide increase in water use from 139 million gallons per day (Mgal/d) in 1970 to 159.45 Mgal/d in 2014. The estimated sustainable yield for the aquifer is 87 Mgal/d leaving an unmet demand of 72.45 Mgal/d. The most recent significant increase in water use from the Sparta/Memphis aquifer has been for agricultural supply in the Grand Prairie and Cache Study Areas.

The exception to this rule is the data from the South Arkansas Study Area, where local education, conservation, and the use of excess surface water has led to significantly fewer declines as well as some rebound in water levels in some areas. The potentiometric surface in five wells has actually risen over 90 feet respectively, over a 16-year period from 2000 to 2016. Union County alone has seen an average change in water level of +26.91 feet from 2006 to 2016. The surrounding counties in the South Arkansas Study Area have also all seen an average rise in water levels during this time with Calhoun County having an average change of +14.62, Columbia +4.51, and Ouachita +7.92 feet respectively. (Fig.15)

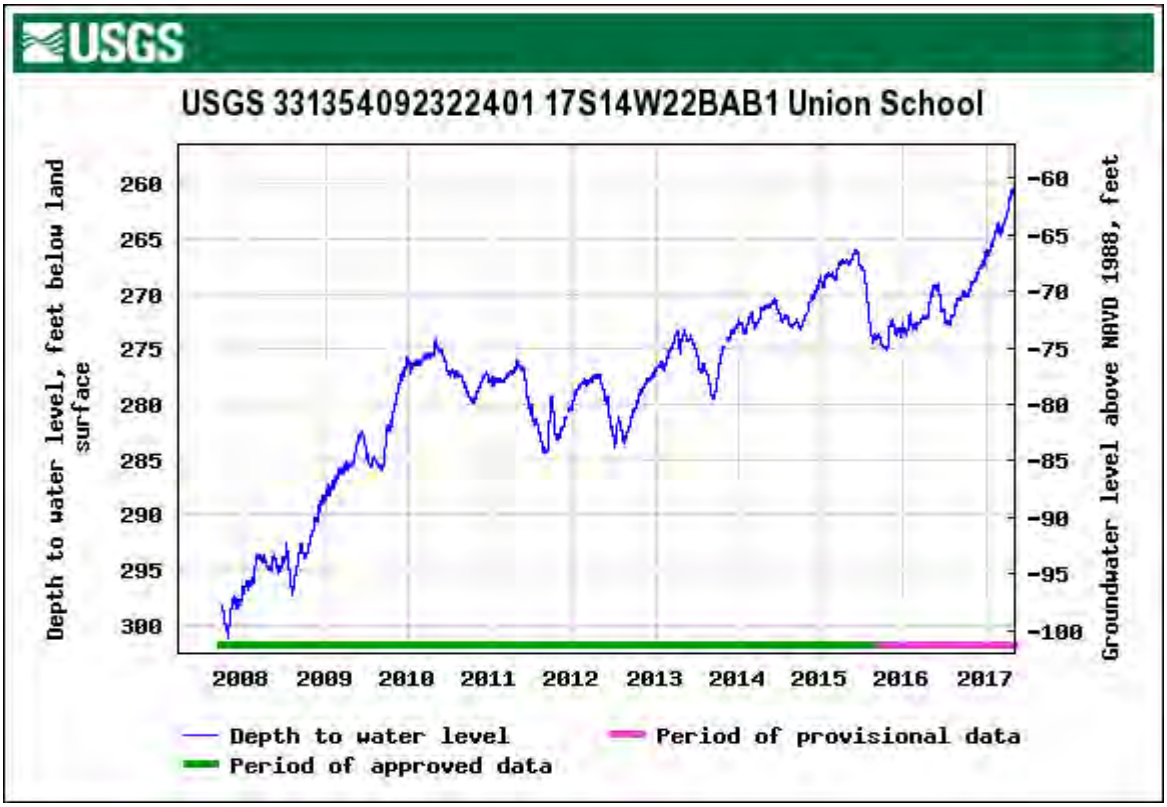
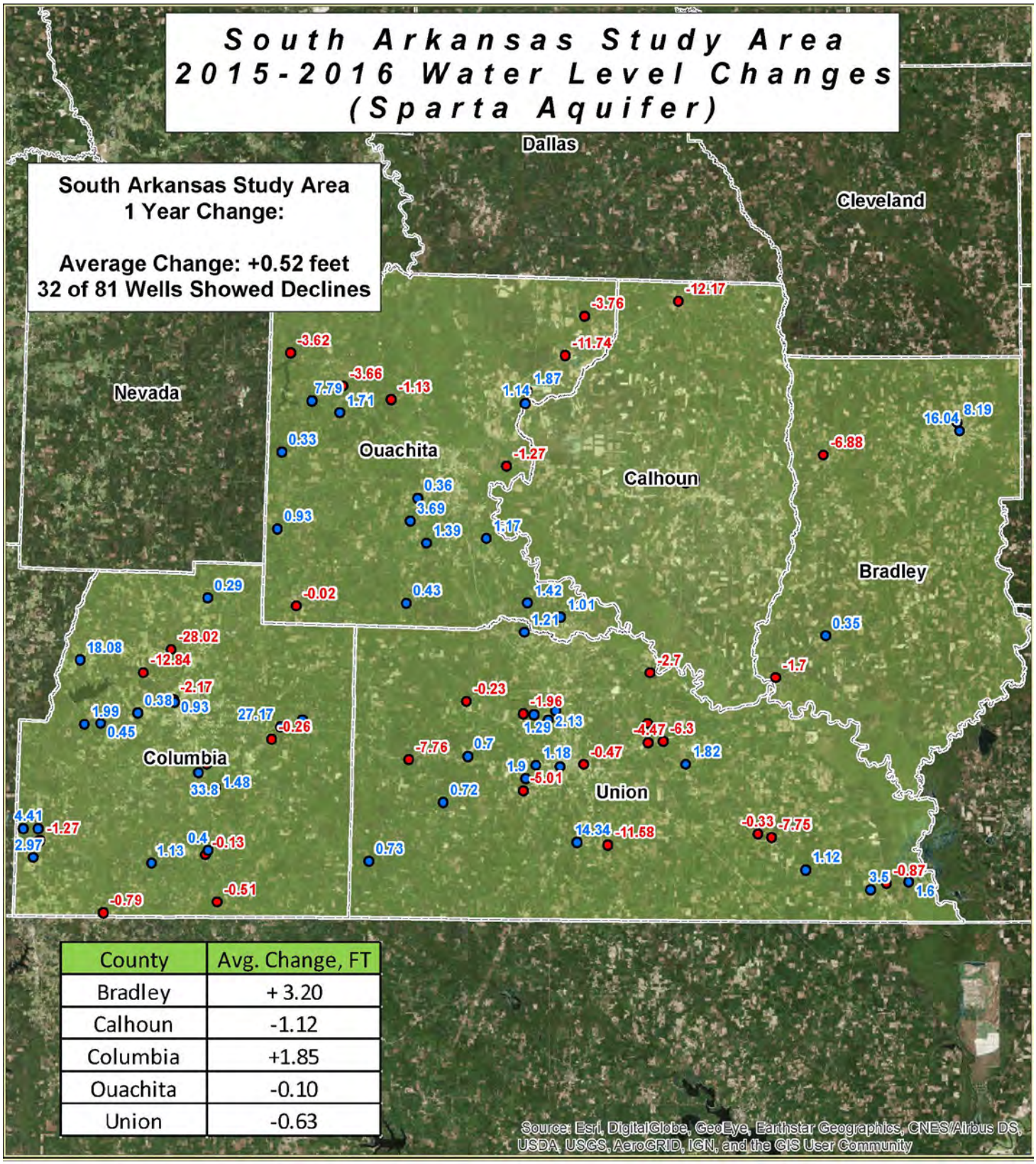



Table 3



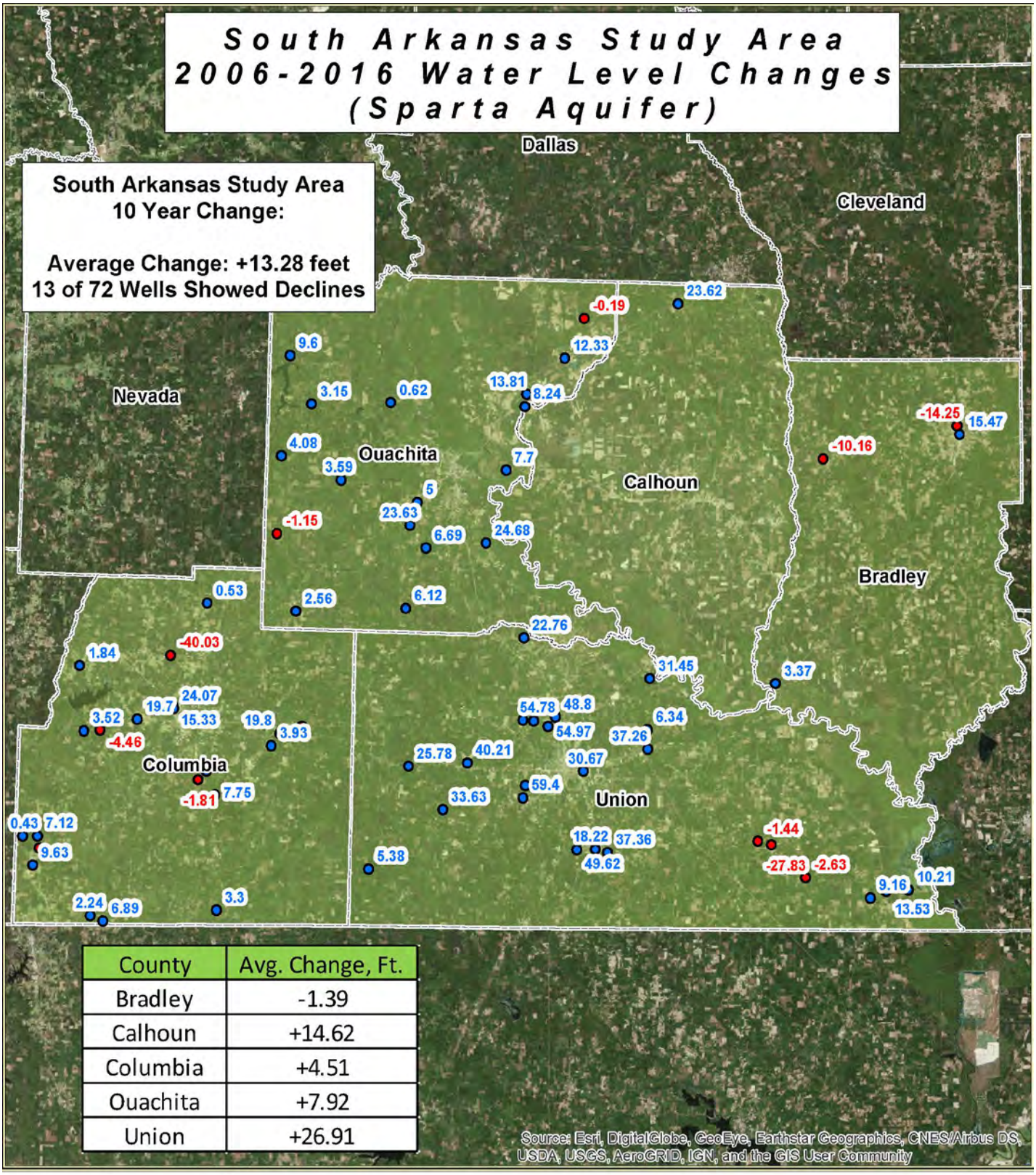

| County | Avg. Change, FT |
|---|---|
| Bradley | + 3.20 |
| Calhoun | -1.12 |
| Columbia | +1.85 |
| Ouachita | -0.10 |
| Union | -0.63 |

## Legend

- Wells With Increases
- Wells With Declines
- South Arkansas Study Area

0 4.5 9 18 27 Miles

Fig. 14



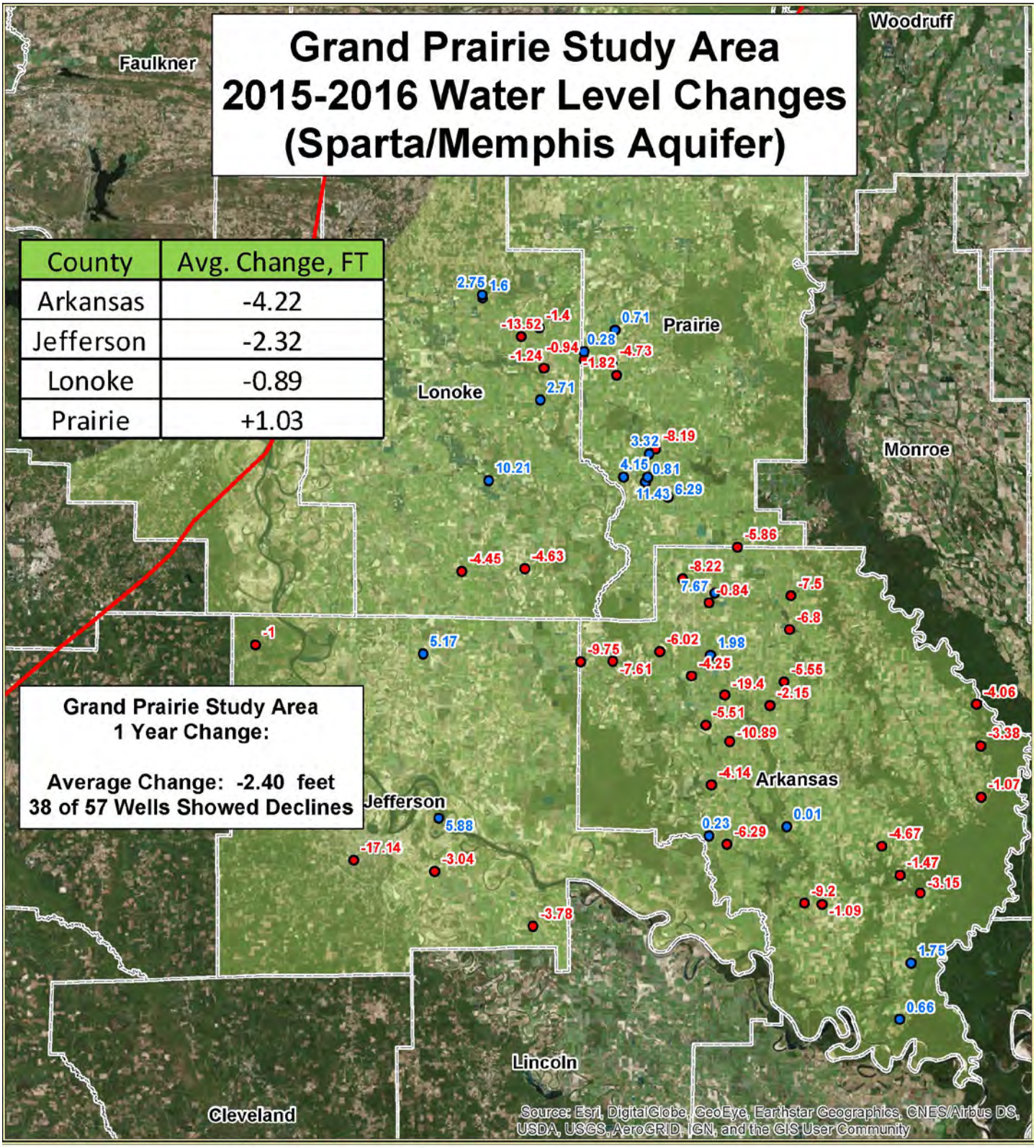

| County | Avg. Change, Ft. |
|---|---|
| Bradley | -1.39 |
| Calhoun | +14.62 |
| Columbia | +4.51 |
| Ouachita | +7.92 |
| Union | +26.91 |

## Legend

- Wells With Increases
- Wells With Declines
- South Arkansas Study Area

0 4.5 9 18 27 Miles

Fig. 15




| County | Avg. Change, FT |
|---|---|
| Arkansas | -4.22 |
| Jefferson | -2.32 |
| Lonoke | -0.89 |
| Prairie | +1.03 |

## Legend

- Wells With Increases
- Wells With Declines
- Sparta Boundary
- Grand Prairie Study Area

0 4 8 16 24 Miles

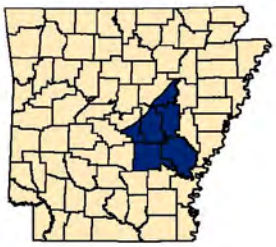
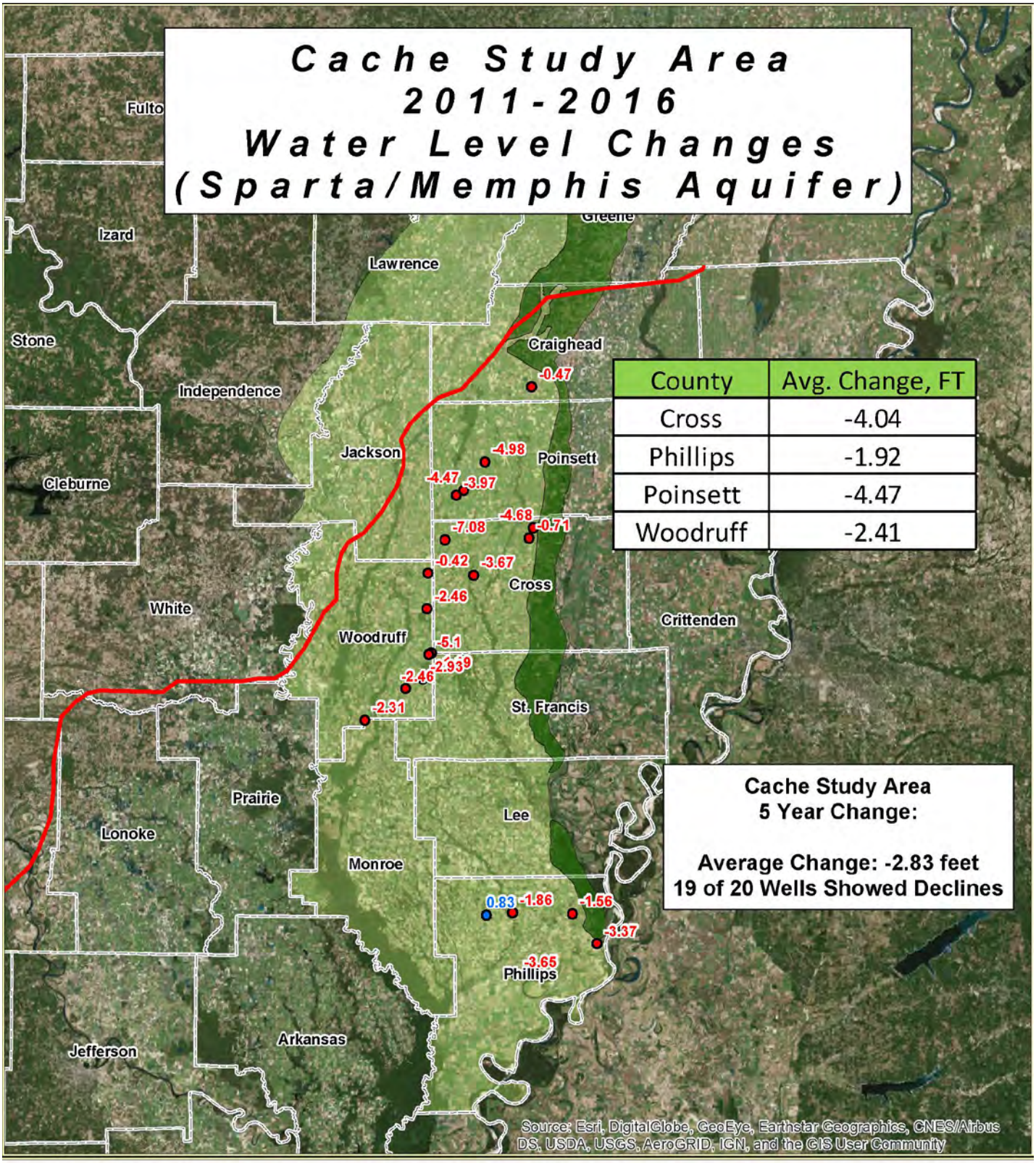


Fig. 16




| County | Avg. Change, FT |
|---|---|
| Cross | -4.04 |
| Phillips | -1.92 |
| Poinsett | -4.47 |
| Woodruff | -2.41 |

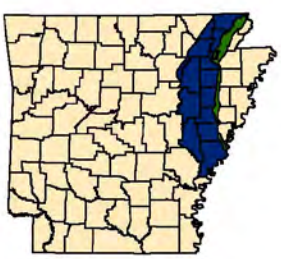
**Cache Study Area**
**5 Year Change:**

**Average Change: -2.83 feet**
**19 of 20 Wells Showed Declines**

**Legend**

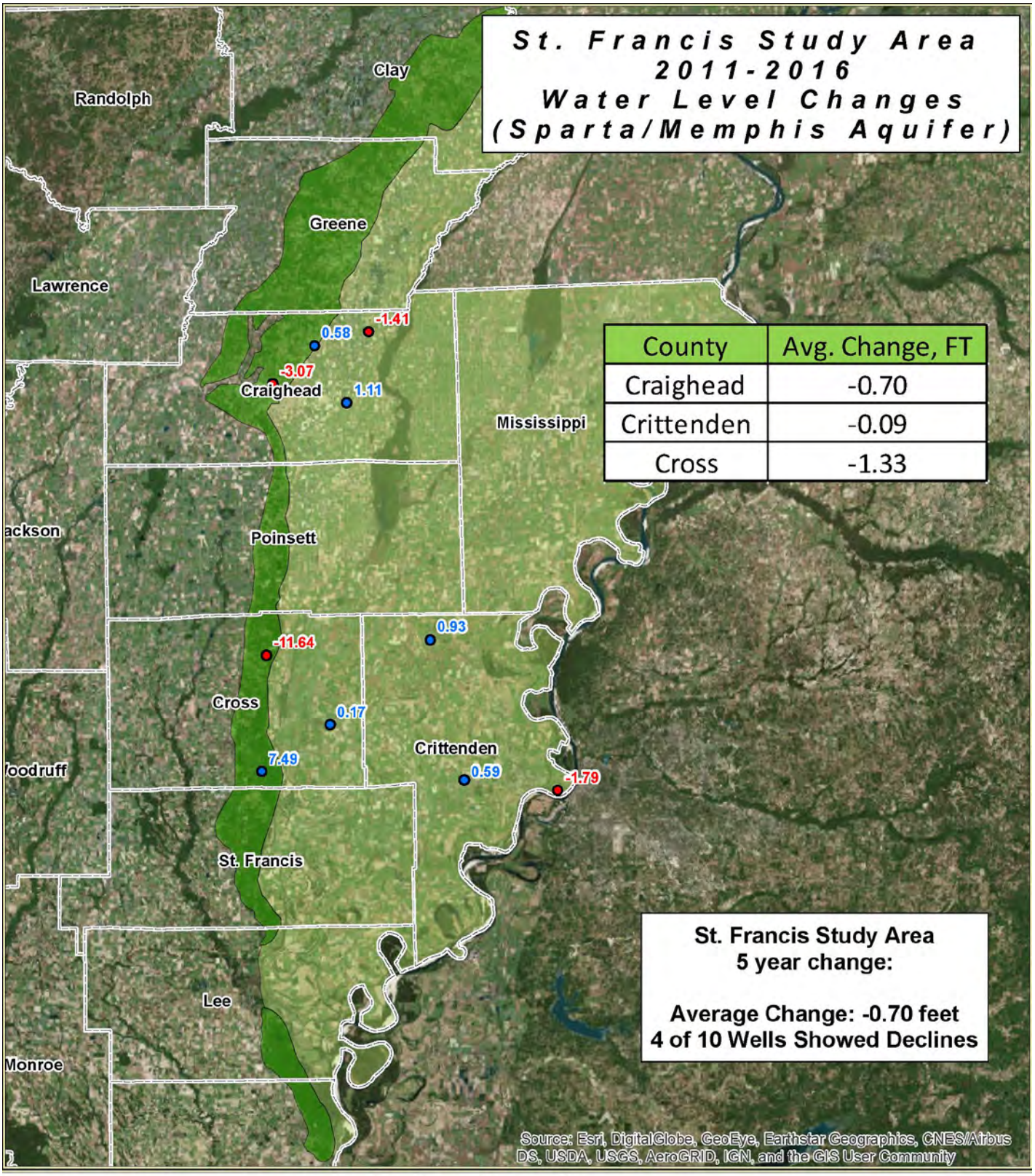
- Wells With Increases
- Wells With Declines
- Sparta Boundary
- Crowleys Ridge
- Cache Study Area

0 5 10 20 30 Miles



N

Fig.17

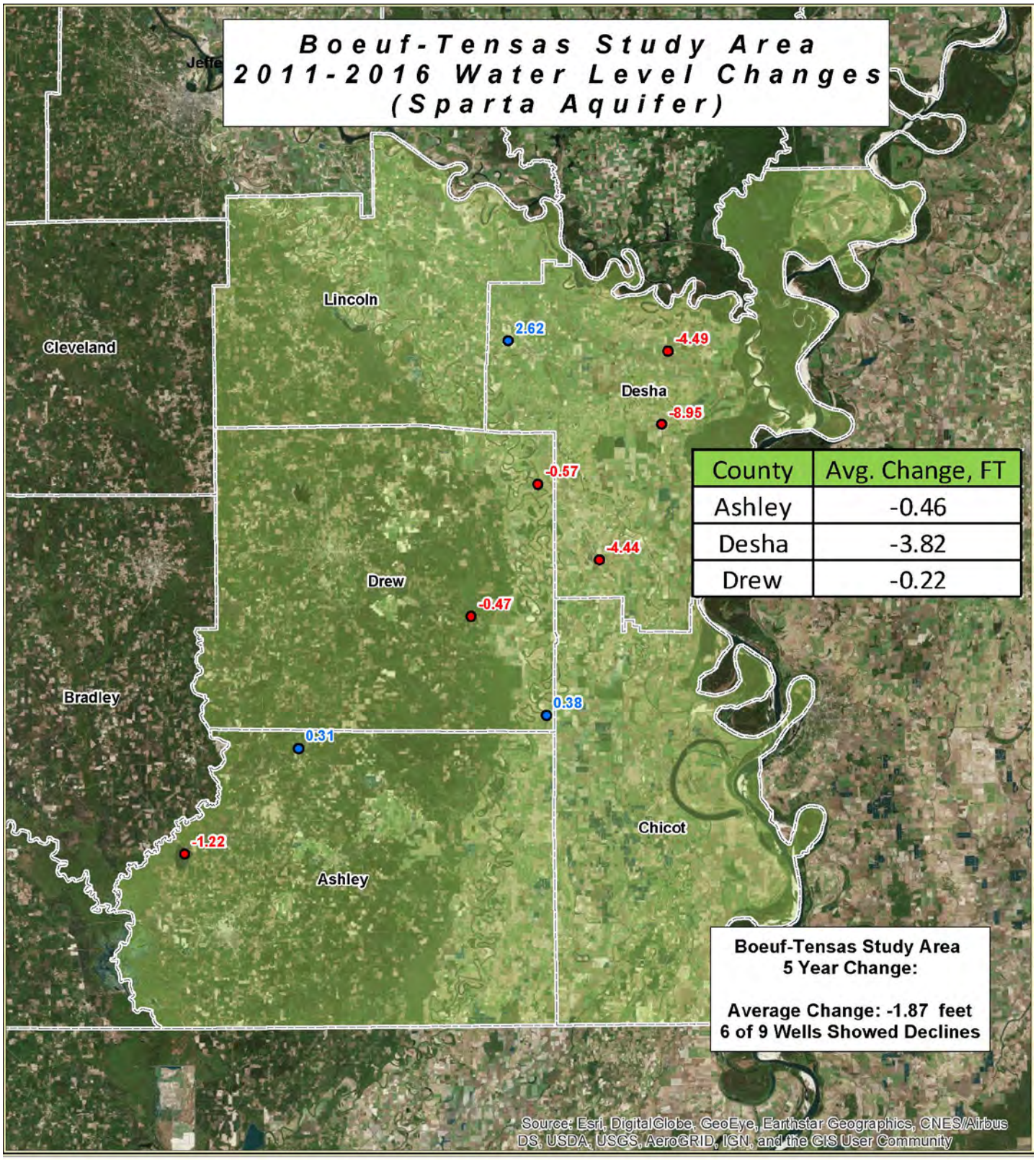



## Legend

- Wells With Increases
- Wells With Declines
- Crowleys Ridge
- St. Francis Study Area

0 4.5 9 18 27 Miles

Fig. 18




## Legend

- Wells With Increases
- Wells With Declines
- Boeuf-Tensas Study Area

0 4.5 9 18 27 Miles

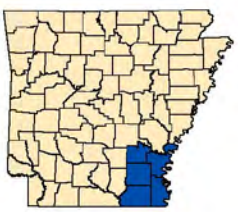


Fig. 19

# GROUND WATER 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 ANRC. Domestic wells are exempt. The quantity used must be reported by March 1st of the following year. USGS reports show there are approximately 50,000 registered wells reported in the State, of which over 97% are agricultural wells, most of which are irrigation wells located primarily in eastern Arkansas. The remaining approximate 3% reported wells are used predominately for commercial, industrial, and public water supply purposes.

## REPORTED WATER USE

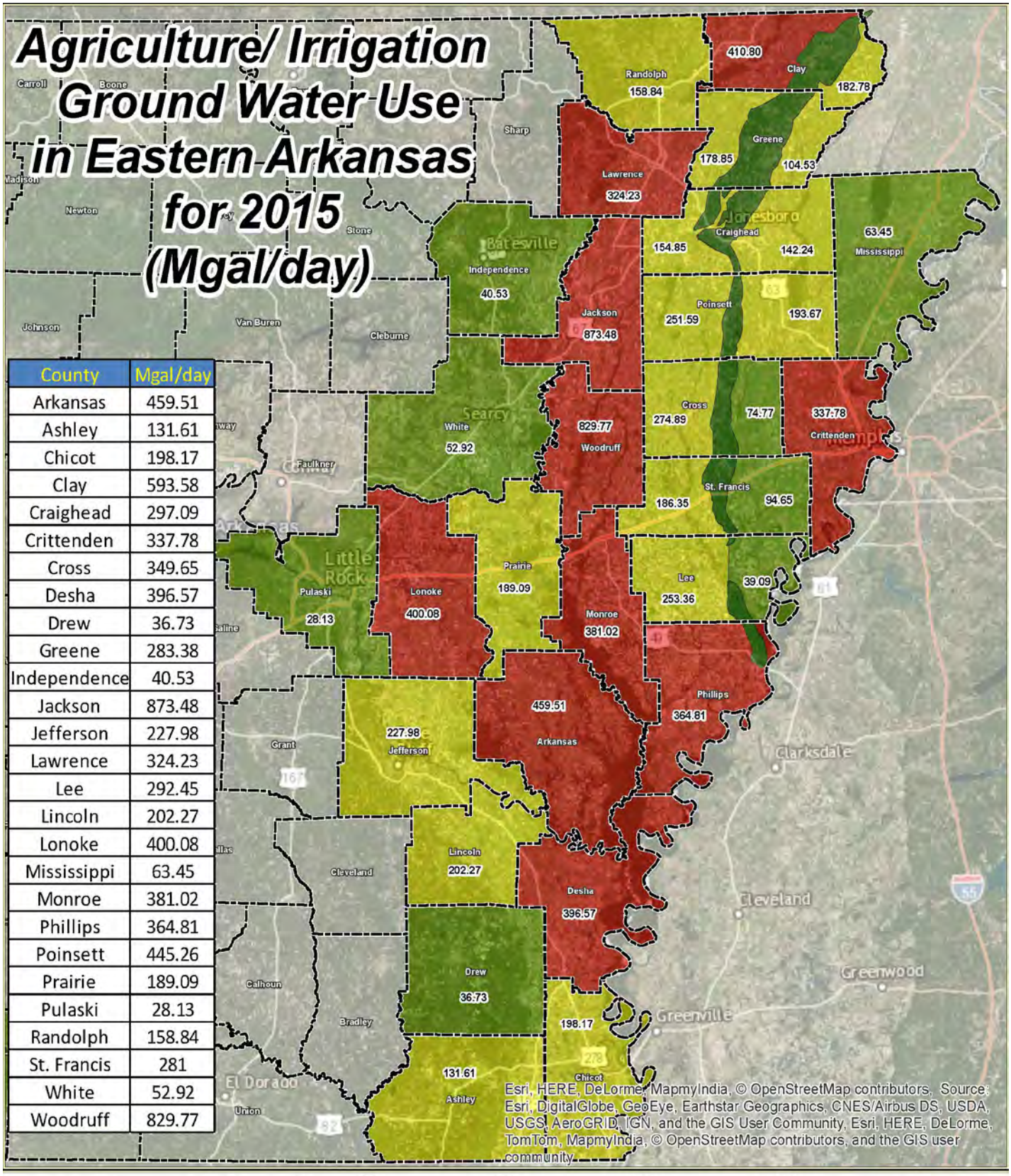
In 2015 an estimated 8254.60 million gallons per day (Mgal/d) of water were reported to be withdrawn from the State's aquifers. The greatest reported volume was pumped from the alluvial aquifer and used primarily for irrigation. There was 7636.08 Mgal/d reported pumped form the alluvial aquifer in 2015, 98% of which was used for irrigation of crops. Historically counties that report the largest groundwater withdrawals from the alluvial aquifer are; Poinsett, Cross, Jackson, Arkansas, and Clay. The reported total estimated groundwater use from the alluvial aquifer during 2015 was 7636.08 Mgal/d.

The Sparta/Memphis aquifer is the second largest aquifer in terms of withdrawals. The reported groundwater use from the Sparta/Memphis aquifer for 2012 was 159.45 Mgal/d, mostly used for municipal and industrial purposes. Jefferson County was the largest user of Sparta/Memphis water of all the counties, with an average withdrawal rate of 42.29 Mgal/d, followed by Arkansas County with a rate of 26.90 Mgal/d.

Table 4 contains the reported groundwater use for irrigation by county in Arkansas for 2015. This is the most recent information as supplied to the ANRC by the USGS.

The Sparta/Memphis aquifer had a reported average withdrawal of 159.45 Mgal/d during the 2012 reporting period. It is important to note that mainly due to increases in the Sparta/Memphis aquifer for irrigation in the area, Arkansas County is now the second largest user of this aquifer's resources, with a withdrawal of 26.90 Mgal/d. Jefferson County is the largest user of Sparta/Memphis ground-water, with a withdrawal of 42.29 Mgal/d.

# Agriculture/ Irrigation Ground Water Use in Eastern Arkansas for 2015 (Mgal/day)




| County | Mgal/day |
|---|---|
| Arkansas | 459.51 |
| Ashley | 131.61 |
| Chicot | 198.17 |
| Clay | 593.58 |
| Craighead | 297.09 |
| Crittenden | 337.78 |
| Cross | 349.65 |
| Desha | 396.57 |
| Drew | 36.73 |
| Greene | 283.38 |
| Independence | 40.53 |
| Jackson | 873.48 |
| Jefferson | 227.98 |
| Lawrence | 324.23 |
| Lee | 292.45 |
| Lincoln | 202.27 |
| Lonoke | 400.08 |
| Mississippi | 63.45 |
| Monroe | 381.02 |
| Phillips | 364.81 |
| Poinsett | 445.26 |
| Prairie | 189.09 |
| Pulaski | 28.13 |
| Randolph | 158.84 |
| St. Francis | 281 |
| White | 52.92 |
| Woodruff | 829.77 |

**Legend**

- Greater than 10 - 100 Mgal/day
- Greater than 100 - 300 Mgal/day
- Greater than 300 - 873 Mgal/day
- No Data Available
- Crowleys Ridge

0 15 30 60 90 120 Miles

**Total Use (Mgal/day): 8,239.40**

***Data Obtained from United States Geological Survey**

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

Fig. 20

# SUMMARY

The Ground Water Protection and Management Report for 2016 is a summary of the activities and significant findings of the Arkansas Natural Resources Commission (ANRC). This report is prepared annually in response to legislative mandates that direct the ANRC 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 ANRC, the NRCS, and the USGS monitor over 1,000 water wells each year for water levels and prescribed water quality parameters. This monitoring is accomplished through a cooperative agreement with the ANRC and the USGS.

Spring water-level measurements from 2015 to 2016 provided short term data indicating an overall average increase in water levels. The overall change in the alluvial aquifer for spring 2015 to spring 2016 was +0.52 feet with 58.6 percent of measured wells showing a water-level decline.

In the Sparta/Memphis aquifer 48.5% of the wells measures from 2015 to 2016 showed declines, with the aquifer average change being -0.59 feet. The water levels in the Cache Study area had an average change of -3.94 feet in the Sparta/Memphis Aquifer from 2006 to 2016. The areas of heightened concern due to water-level decline continue to be in the Grand Prairie, South Arkansas, and Cache Study Areas. Fluctuations may be observed in ground-water levels over a short time period, however long term records illustrate the seriousness of the declines in groundwater levels as illustrated by the long term change maps.

Arkansas is withdrawing ground water from the alluvial and Sparta/Memphis aquifers in eastern and southern Arkansas at a rate which is far above sustainable. With this in mind, the ANRC should continue to promote conservation, education, and the conjunctive use of ground and surface-water at rates that are sustainable for current and future water use needs.

# REFERENCES


Ackerman, D. J., 1996, Hydrology of the Mississippi River Valley Alluvial Aquifer, South-Central United States: U. S. Geological Survey Professional Paper 1416-D, 56 p.

Cushing, E. M., Boswell, E. H., and Hosman, R. L., 1964, General Geology of the Mississippi Embayment: U. S. Geological Survey Professional Paper 448-B.

Czarnecki, John B., Clark, Bryan R., and Reed, 2003, Thomas B. Conjunctive-Use Optimization Model of the Mississippi River Alluvial Aquifer of Northeastern Arkansas. USGS Water-Resources Investigations Report 03-4230, 29 p.

Czarnecki, John B., Clark, Bryan R., and Stanton, Gregory P., 2003, Conjunctive-Use Optimization Model and Sustainable-Yield Estimation for the Sparta Aquifer of Southeastern Arkansas and North Central Louisiana. USGS Water-Resources Investigations Report 03-4291, 30 p.

Czarnecki, John B., Clark, Bryan R., and Stanton, Gregory P., 2003, Conjunctive-Use Optimization Model of the Mississippi River Alluvial Aquifer of Southeastern Arkansas. USGS Water-Resources Investigations Report 03-4233, 26 p.

Czarnecki, John B. and Fugitt, D. Todd, 2003, Ground-Water Models of the Alluvial Aquifer, USGS information sheet.

Fugitt, D.T., and Brazil, Kenneth W., Figure 2., Generalized Hydrologic Budget for Arkansas, 2015. Personal Communication.

Gonthier, G.J., and Mahon, G.L., 1993, Thickness of the Mississippi River Valley Confining Unit, Eastern Arkansas: U. S. Geological Survey Water-Resources Investigations Report 92-4121, 4 sheets.

Hayes, P. D., and Fugitt, D. T., The Sparta Aquifer in Arkansas' Critical Ground-Water Areas-Response of the Aquifer to Supplying Future Water Needs: U. S. Geological Survey Water-Resources Investigations Report 99-4075, 1999.

Hayes, P.D., 2000, sustainable yield estimation for the Sparta aquifer in Union County, Arkansas: U.S. Geological Survey Water Resources Investigation Report 99-4272, 17 p.

Holland, T.W., Water Use in Arkansas, 2005: USGS Scientific Investigations Report 2007-5241. 2008.

Holland, T. W., 1999, Water Use in Arkansas, 1995: U.S. Geological Survey Open-File Report 99-188, 1 sheet.

Holland, T. W., 1987, Use of Water in Arkansas, 1985: USGS Water Resources Summary Number 16.

Hosman, R.L., 1982, Outcropping Tertiary Units in Southern Arkansas: U. S. Geological Survey Miscellaneous Investigations Series, I-1405, 1 sheet.

Maimone, Mark, Defining and Managing Sustainable Yield. Ground Water Journal, Vol. 42, Nos. 6 and 7, pp797-1102. November-December 2004.

McKee, Paul W., Clark, Brian R., and Czarnecki, John B., 2003, Conjunctive-Use Optimization Model and Sustainable Yield Estimation for the Sparta Aquifer of Southeastern Arkansas and North-Central Louisiana. U.S. Geological Survey Water-Resources Investigations Report 03-4231. 30 p.

Kresse, Timothy M. and Clark, Brian R., 2008, Occurrence, Distribution, Sources, and Trends of Elevated Chloride Concentrations in the Mississippi Valley Alluvial Aquifer in Southeastern Arkansas. U.S. Geological Survey Scientific Investigations Report 2008-5193.

Pugh, A.L., Table 4. Groundwater Use in Arkansas by Aquifer and Use Type 2012. 2015. Personal Communication.

Pugh, A.L., Westerfield, P. W., and Poynter, D. T., 1997, Thickness of the Mississippi River Alluvial Aquifer in Eastern Arkansas: U. S. Geological Survey Water-Resources Investigations Report 97-4049, 1 sheet.

Scheiderer, Rheannon M. and Freiwald, David A., USGS Fact Sheet 2006-3090. 2006.

Schrader, T. P. Status of Water Levels and Selected Water-Quality Conditions in the Sparta-Memphis Aquifer in Arkansas and the Status of Water Levels in the Sparta Aquifer in Louisiana, Spring 2005. USGS Scientific Investigations Report 2007-5029, 66 p.

Schrader, T.P. Water Levels and Selected Water-Quality Conditions in the Mississippi River Valley Alluvial Aquifer in Eastern Arkansas, 2006. USGS Scientific Investigation Report 2008-5092, 82 p.

# Appendix A

## Alluvial Aquifer Water Level Monitoring Data

# 2016 Alluvial WL Change Percent Saturated
## 2006/2011/2015

| County | Station ID | Latitude | Longitude | USGS LSA | Date | 2016 DTW | Aquifer Thick. | Sat. ft. | % Sat. | 2015 DTW | 2011 DTW | 2006 DTW | 15-16 Change | 11-16 Change | 06-16 Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arkansas | 02S05W15AAB1 | 34.5368556 | -91.524089 | 212.07 | 3/15/2016 | 120.05 | 130.64 | 10.59 | 8.10 | 120.15 | 115.97 | 105.10 | 0.10 | (4.08) | (14.95) |
| Arkansas | 02S05W31BBB1 | 34.4935306 | -91.593394 | 196.39 | 3/16/2016 | 7.28 | 113.14 | 105.86 | 93.57 | 10.56 | 29.10 | 39.75 | 3.28 | 21.82 | 32.47 |
| Arkansas | 03S03W05CCD1 | 342737.02 | 912131.83 | 195.96 | 3/22/2016 | 100.11 | 122.47 | 22.36 | 18.26 | 99.37 | 99.37 | 98.18 | (0.74) | (0.74) | (1.93) |
| Arkansas | 03S03W18CCC1 | 342553 | 912251 | 196.62 | 3/25/2016 | 101.24 | 117.13 | 15.89 | 13.56 | 101.31 | 101.36 | 98.71 | 0.07 | 0.12 | (2.53) |
| Arkansas | 03S04W02BBB1 | 342831 | 912454 | 197.63 | 3/22/2016 | 93.52 | 121.40 | 27.88 | 22.97 | | 93.23 | 92.23 | | (0.29) | (1.29) |
| Arkansas | 03S04W03DCA6 | 34.46480833 | -91.42106667 | 205.00 | 3/22/2016 | 100.82 | 126.50 | 25.68 | 20.30 | | 101.41 | 100.45 | | 0.59 | (0.37) |
| Arkansas | 03S04W03DDA1 | 34.46391389 | -91.41167333 | 202.00 | 3/22/2016 | 101.15 | | | | | | 100.05 | | | (1.10) |
| Arkansas | 03S03W27BBC1 | 342454.73 | 911944.08 | 195.00 | 3/22/2016 | 93.99 | 121.72 | 27.73 | 22.78 | 94.00 | 93.00 | 91.65 | 0.01 | (0.99) | (2.34) |
| Arkansas | 03S04W03DCA16 | 342753.04 | 912515.37 | 201.80 | 4/19/2016 | 101.78 | 120.82 | 19.04 | 15.76 | 101.54 | 101.25 | 100.45 | (0.24) | (0.53) | (1.33) |
| Arkansas | 03S05W03CCC1 | 342752.15 | 913227.43 | 207.35 | 3/15/2016 | 103.10 | 127.76 | 24.66 | 19.30 | 104.48 | 105.90 | 104.40 | 1.38 | 2.80 | 1.30 |
| Arkansas | 03S05W13CBA2 | 342630 | 913007 | 210.86 | 3/16/2016 | 105.28 | 136.70 | 31.42 | 22.98 | 106.62 | 107.30 | 105.75 | 1.34 | 2.02 | 0.47 |
| Arkansas | 03S05W24DAA1 | 342525.17 | 912921.98 | 203.05 | 3/22/2016 | 47.66 | 127.07 | 79.41 | 62.49 | 55.15 | 64.06 | | 7.49 | 16.40 | |
| Arkansas | 03S06W35ADD1 | 342411.4 | 913651.67 | 188.48 | 3/22/2016 | 55.00 | 105.76 | 50.76 | 48.00 | 60.20 | 53.90 | 52.89 | 5.20 | (1.10) | (2.11) |
| Arkansas | 04S03W17ADD1 | 342101.87 | 912058.11 | 196.85 | 3/22/2016 | 110.40 | 145.10 | 34.70 | 23.91 | 109.67 | 109.60 | 107.72 | (0.73) | (0.80) | (2.68) |
| Arkansas | 04S03W32BCC/B1 | 34.30636944 | -91.36685 | 192.00 | 3/22/2016 | 119.92 | 158.30 | 38.38 | 24.25 | | 130.80 | 116.45 | | 10.88 | (3.47) |
| Arkansas | 04S04W02ABB1 | 342313.2 | 912423.69 | 197.67 | 3/22/2016 | 111.40 | 140.58 | 29.18 | 20.76 | 110.85 | 109.70 | 108.63 | (0.55) | (1.70) | (2.77) |
| Arkansas | 04S04W35ABC1 | 34.30982108 | -91.41040032 | 193.00 | 3/18/2016 | 92.00 | 166.70 | 74.70 | 44.81 | | 91.80 | 91.00 | | (0.20) | (1.00) |
| Arkansas | 04S05W16CDC1 | 34.34574444 | -91.55580278 | 201.00 | 3/22/2016 | 71.65 | 154.40 | 82.75 | 53.59 | | | 69.35 | | | (2.30) |
| Arkansas | 05S03W09CBA1 | 341624 | 912046 | 196.10 | 3/27/2016 | 115.74 | 168.00 | 52.26 | 31.11 | 114.74 | 114.00 | 113.67 | (1.00) | (1.74) | (2.07) |
| Arkansas | 05S03W16ABB1 | 34.26621093 | -91.34039836 | 198.00 | 3/31/2016 | 115.70 | 172.50 | 56.80 | 32.93 | | | 115.50 | | | (0.20) |
| Arkansas | 05S04W04BAA1` | 34.29732081 | -91.44845648 | 186.00 | 3/31/2016 | 99.65 | 163.80 | 64.15 | 39.16 | | | 92.00 | | | (7.65) |
| Arkansas | 05S04W07CCC1 | 341555.36 | 912931.61 | 190.45 | 3/4/2016 | 73.58 | 170.46 | 96.88 | 56.84 | 73.55 | 73.10 | 74.27 | (0.03) | (0.48) | 0.69 |
| Arkansas | 05S04W14AAD1 | 34.26371032 | -91.40317736 | 186.00 | 3/31/2016 | 94.02 | 162.60 | 68.58 | 42.18 | | | 92.80 | | | (1.22) |
| Arkansas | 05S04W32BBA1 | 341315.97 | 912821.81 | 187.53 | 3/4/2016 | 55.24 | 168.31 | 113.07 | 67.18 | 55.41 | 55.90 | 57.42 | 0.17 | 0.66 | 2.18 |
| Arkansas | 05S04W34BAC1 | 34.21926589 | -91.43428882 | 191.00 | 3/31/2016 | 119.70 | | | | | | 69.15 | | | (50.55) |
| Arkansas | 06S02W03AB1 | 34.20760146 | -91.21706176 | | 3/31/2016 | 116.99 | | | | | | | | | |
| Arkansas | 06S03W10BBA1 | 341135.97 | 911953.82 | 174.74 | 4/8/2016 | 81.80 | 164.03 | 82.23 | 50.13 | 82.06 | 81.60 | 81.98 | 0.26 | (0.20) | 0.18 |
| Arkansas | 06S03W27AAA1 | 340857.58 | 911912.78 | 177.17 | 3/23/2016 | 65.51 | 165.11 | 99.60 | 60.32 | 66.00 | 70.00 | 66.68 | 0.49 | 4.49 | 1.17 |
| Arkansas | 06S03W32DDD/A1 | 34.1277778 | -91.354167 | 180.64 | 3/27/2016 | 56.99 | 160.48 | 103.49 | 64.49 | 55.54 | 59.60 | 55.34 | (1.45) | 2.61 | (1.65) |
| Arkansas | 07S02W04BBB1 | 34.1186528 | -91.247747 | 178.54 | 4/8/2016 | 58.41 | 158.83 | 100.42 | 63.23 | 47.78 | 44.10 | 42.20 | (10.63) | (14.31) | (16.21) |
| Arkansas | 07S02W17BBA1 | 34.09162222 | -91.26072778 | 184.00 | 4/8/2016 | 43.40 | 164.30 | 120.90 | 73.58 | | 49.85 | 54.51 | | 6.45 | 11.11 |
| Arkansas | 07S03W10ACD | 340560 | 911944 | 187.00 | 4/6/2016 | 142.50 | 163.40 | 20.90 | 12.79 | | | | | | |
| Arkansas | 07S03W18CCD1 | 340435.28 | 912316.09 | 181.92 | 3/23/2016 | 42.43 | 137.84 | 95.41 | 69.22 | 40.05 | 40.40 | 42.41 | (2.38) | (2.03) | (0.02) |
| Arkansas | 07S03W32BBC1 | 340240 | 912216 | 175.79 | 3/23/2016 | 23.61 | 152.99 | 129.38 | 84.57 | 23.90 | 24.30 | 24.72 | 0.29 | 0.69 | 1.11 |
| Arkansas | 08S02W08ACA1 | 34.01139722 | -91.25154722 | 179.00 | 4/28/2016 | 34.75 | 146.20 | 111.45 | 76.23 | | 39.02 | 45.13 | | 4.27 | 10.38 |
| Arkansas | 08S03WT2299 | 340147.45 | 912202.5 | 176.97 | 3/23/2016 | 20.76 | 161.02 | 140.26 | 87.11 | 22.22 | 21.70 | 21.47 | 1.46 | 0.94 | 0.71 |
| | | | | | | | | | | | | | | | |
| | | | | | | Avg. % Saturated: | | | 43.83 | Declines/Wells: | | | 9/22 | 14/28 | 22/33 |
| | | | | | | | | | | Average Change: | | | 0.17 | 1.63 | (1.76) |
| | | | | | | | | | | | | | | | |
| Ashley | 15S04W23DBD1 | 33.37981389 | -91.48108611 | 128.00 | 4/27/2016 | 32.54 | | | | | | 32.01 | | | (0.53) |
| Ashley | 15S07W21CBA1 | 332315.7 | 915001.37 | 179.66 | 4/12/2016 | 4.66 | | | | 4.05 | 11.52 | 6.60 | (0.61) | 6.86 | 1.94 |
| Ashley | 16S06W08CAA1 | 33.32815 | -91.74396111 | 185.00 | 4/12/2016 | 78.30 | | | | | | 78.28 | | | (0.02) |
| Ashley | 16S06W25DDD1 | 331640 | 913958 | 181.76 | 4/27/2016 | 79.93 | | | | 79.98 | 79.32 | | 0.05 | (0.61) | |

# 2016 Alluvial WL Change Percent Saturated
## 2006/2011/2015

| County | Station ID | Latitude | Longitude | USGS LSA | Date | 2016 DTW | Aquifer Thick. | Sat. ft. | % Sat. | 2015 DTW | 2011 DTW | 2006 DTW | 15-16 Change | 11-16 Change | 06-16 Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ashley | 16S06W27BAB1 | 331729 | 914240 | 183.20 | 4/12/2016 | 86.53 | | | | 85.80 | 85.20 | 83.84 | (0.73) | (1.33) | (2.69) |
| Ashley | 17S04W03ABB1 | 331528 | 913010 | 123.36 | 4/27/2016 | 32.60 | 159.24 | 126.64 | 79.53 | 34.30 | 33.40 | 30.22 | 1.70 | 0.80 | (2.38) |
| Ashley | 17S04W15DDC1 | 331252.48 | 912954.09 | 113.94 | 4/12/2016 | 28.66 | 185.83 | 157.17 | 84.58 | 30.60 | 30.55 | 26.50 | 1.94 | 1.89 | (2.16) |
| Ashley | 17S04W21ABA1 | 331252 | 913108 | 118.08 | 4/12/2016 | 24.15 | 189.30 | 165.15 | 87.24 | 25.45 | 27.00 | 23.56 | 1.30 | 2.85 | (0.59) |
| Ashley | 17S06W35CAC1 | 33.1803994 | -91.693459 | 178.87 | 4/27/2016 | 73.24 | | | | 73.00 | 73.16 | 72.62 | (0.24) | (0.08) | (0.62) |
| Ashley | 18S04W23DDD1 | 33.1162337 | -91.48234087 | 103.00 | 4/6/2016 | 32.00 | 155.20 | 123.20 | 79.38 | | 25.00 | | | (7.00) | |
| Ashley | 18S05W11CCD | 33.1448455 | -91.59401094 | 118.00 | 4/6/2016 | 27.00 | | | | | 25.01 | 22.66 | | (1.99) | (4.34) |
| Ashley | 18S05W22DDA1 | 33.12012301 | -91.59873305 | 125.00 | 4/6/2016 | 19.00 | | | | | 19.00 | 21.00 | | 0.00 | 2.00 |
| Ashley | 18S08W01AAB1 | 331014.97 | 915225.12 | 177.33 | 4/12/2016 | 85.54 | | | | 90.12 | 86.20 | 86.63 | 4.58 | 0.66 | 1.09 |
| Ashley | 18S08W28DDD2 | 330624.8 | 915528.46 | 161.71 | 4/12/2016 | 84.89 | | | | 84.40 | 85.26 | 84.96 | (0.49) | 0.37 | 0.07 |
| Ashley | 19S04W14BBB1 | 33.0529021 | -91.48706264 | 107.00 | 4/6/2016 | 30.00 | 142.60 | 112.60 | 78.96 | | 35.00 | | | 5.00 | |
| Ashley | 19S05W08ACA1 | 33.06818026 | -91.63762251 | 111.00 | 4/6/2016 | 29.00 | | | | | 16.00 | 17.25 | | (13.00) | (11.75) |
| Ashley | 19S05W16ABB1 | 33.05651385 | -91.62178862 | 116.00 | 4/6/2016 | 18.00 | 141.10 | 123.10 | 87.24 | | 25.00 | 24.00 | | 7.00 | 6.00 |
| Ashley | 19S05W22DCD1 | 33.0276257 | -91.60428785 | 107.00 | 4/6/2016 | 17.00 | 126.60 | 109.60 | 86.57 | | 21.00 | 23.16 | | 4.00 | 6.16 |
| Ashley | 19S06W07BCC1 | 330403.56 | 914607.92 | 117.16 | 4/27/2016 | 30.57 | | | | 31.00 | 31.00 | 31.04 | 0.43 | 0.43 | 0.47 |
| | | | | | | | | | | | | | | | |
| | | | | | | **Avg. % Saturated:** | | | **83.36** | **Declines/Wells:** | | | **4/10** | **6/17** | **9/16** |
| | | | | | | | | | | **Average Change:** | | | **0.79** | **0.34** | **(0.46)** |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Chicot | 13S03W34CAA1 | 33.52653333 | -91.39327778 | 132.00 | 4/27/2016 | 42.71 | 78.50 | 35.79 | 45.59 | | | 37.08 | | | (5.63) |
| Chicot | 13S03W34BAA1 | 33.51127222 | -91.38820833 | 133.00 | 4/27/2016 | 44.90 | 74.00 | 29.10 | 39.32 | | 44.00 | 40.32 | | (0.90) | (4.58) |
| Chicot | 13S03W35BAC1 | 333154.05 | 912245.53 | 129.82 | 4/11/2016 | 44.43 | 75.62 | 31.19 | 41.24 | 44.70 | 42.90 | 41.50 | 0.27 | (1.53) | (2.93) |
| Chicot | 14S03W07BBD1 | 333011.09 | 912620 | 135.17 | 4/11/2016 | 31.09 | 79.63 | 48.54 | 60.96 | 36.52 | 31.40 | 26.56 | 5.43 | 0.31 | (4.53) |
| Chicot | 14S03W32CDB2 | 33.437075 | -91.43095833 | 134.00 | 4/27/2016 | 42.30 | 87.40 | 45.10 | 51.60 | | | 34.86 | | | (7.44) |
| Chicot | 15S02W20DDC1 | 332226.59 | 911919.83 | 121.10 | 4/26/2016 | 38.79 | 93.55 | 54.76 | 58.53 | 36.70 | | 27.91 | (2.09) | | (10.88) |
| Chicot | 16S03W15DAD1 | 331818 | 912334 | 118.31 | 4/26/2016 | 35.00 | 121.23 | 86.23 | 71.13 | 33.34 | 32.85 | | (1.66) | (2.15) | |
| Chicot | 17S01W06BCC1 | 33.25032778 | -91.25145 | 115.00 | 4/26/2016 | 21.56 | 139.30 | 117.74 | 84.52 | | 22.70 | 21.03 | | 1.14 | (0.53) |
| Chicot | 17S03W28DBA1 | 33.19071944 | -91.41150556 | 110.00 | 4/12/2016 | 24.24 | 156.80 | 132.56 | 84.54 | | | 24.33 | | | 0.09 |
| Chicot | 19S03W14ABB1 | 33.05124167 | -91.38074722 | 111.00 | 4/13/2016 | 22.74 | 141.80 | 119.06 | 83.96 | | | 23.74 | | | 1.00 |
| | | | | | | | | | | | | | | | |
| | | | | | | **Avg. % Saturated:** | | | **62.14** | **Declines/Wells:** | | | **2/4** | **3/5** | **7/9** |
| | | | | | | | | | | **Average Change:** | | | **0.49** | **(0.63)** | **(3.94)** |
| | | | | | | | | | | | | | | | |
| Clay | 18N08E03DAB1 | 361323.23 | 901153.03 | 258.07 | 3/17/2016 | 5.76 | 130.23 | 124.47 | 95.58 | 5.90 | 7.70 | 7.89 | 0.14 | 1.94 | 2.13 |
| Clay | 18N08E11BAA1 | 361253 | 901117 | 256.43 | 5/2/2016 | 5.00 | 135.48 | 130.48 | 96.31 | 6.80 | 8.20 | 7.00 | 1.80 | 3.20 | 2.00 |
| Clay | 19N04E19BAA1 | 361649 | 904125 | 276.87 | 4/26/2016 | 23.00 | 135.02 | 112.02 | 82.97 | 24.20 | 25.00 | 22.00 | 1.20 | 2.00 | 1.00 |
| Clay | 19N05E15BBD1 | 361716 | 903152 | 289.53 | 4/26/2016 | 46.30 | 130.50 | 84.20 | 64.52 | 47.10 | 36.80 | 34.00 | 0.80 | (9.50) | (12.30) |
| Clay | 19N06E18DBC1 | 361642 | 902815 | 290.55 | 4/26/2016 | 41.50 | | | | 44.00 | 40.30 | 37.01 | 2.50 | (1.20) | (4.49) |
| Clay | 19N08E27DA1 | 36.25006354 | -90.1964869 | 261.00 | 5/4/2016 | 2.82 | 116.30 | 113.48 | 97.58 | | | 5.20 | | | 2.38 |
| Clay | 20N03E25BAA1 | 362112 | 904225 | 287.60 | 4/26/2016 | 21.20 | 141.05 | 119.85 | 84.97 | 23.70 | 22.10 | 22.00 | 2.50 | 0.90 | 0.80 |
| Clay | 20N04E02BB/C1 | 36.4078391 | -90.61983502 | 285.00 | 5/4/2016 | 17.00 | 126.30 | 109.30 | 86.54 | | | 15.70 | | | (1.30) |
| Clay | 20N04E06BB1 | 362444.34 | 904131.25 | 290.19 | 3/18/2016 | 21.31 | 137.24 | 115.93 | 84.47 | 21.10 | | 19.97 | (0.21) | | (1.34) |
| Clay | 20N05E30CAC1 | 362003 | 903454 | 279.30 | 4/26/2016 | 21.30 | 121.20 | 99.90 | 82.43 | 20.60 | 19.70 | 18.00 | (0.70) | (1.60) | (3.30) |

# 2016 Alluvial WL Change Percent Saturated
## 2006/2011/2015

| County | Station ID | Latitude | Longitude | USGS LSA | Date | 2016 DTW | Aquifer Thick. | Sat. ft. | % Sat. | 2015 DTW | 2011 DTW | 2006 DTW | 15-16 Change | 11-16 Change | 06-16 Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clay | 20N08E24DDA1 | 36.34919444 | -90.15932778 | 276.00 | 5/17/2016 | 7.27 | 56.80 | 49.53 | 87.20 | | | 9.75 | | | 2.48 |
| Clay | 20N09E33DDC1 | 361904 | 900628 | 269.69 | 5/2/2016 | 5.70 | 106.34 | 100.64 | 94.64 | 6.10 | 7.50 | 7.00 | 0.40 | 1.80 | 1.30 |
| Clay | 21N03E15CBC1 | 362738 | 904453 | 290.65 | 4/26/2016 | 9.00 | 141.25 | 132.25 | 93.63 | 12.40 | 11.00 | 11.10 | 3.40 | 2.00 | 2.10 |
| Clay | 21N05E17ABB1 | 36.46540833 | -90.55802778 | 298.00 | 3/17/2016 | 24.50 | 127.00 | 102.50 | 80.71 | | | 23.23 | | | (1.27) |
| Clay | 21N05E22BAB1 | 362704 | 903132 | 284.42 | 4/26/2016 | 6.60 | 109.83 | 103.23 | 93.99 | 8.10 | 9.00 | 7.01 | 1.50 | 2.40 | 0.41 |
| Clay | 21N06E28BB1 | 362604.92 | 902607.97 | 289.76 | 3/17/2016 | 19.96 | 107.49 | 87.53 | 81.43 | 20.70 | 22.20 | 19.19 | 0.74 | 2.24 | (0.77) |
| Clay | 21N07E01DDC1 | 36.4764481 | -90.268713 | 302.33 | 5/2/2016 | 18.00 | 95.60 | 77.60 | 81.17 | 24.40 | 30.60 | 26.00 | 6.40 | 12.60 | 8.00 |
| Clay | 21N08E18CCC1 | 362650.9 | 901550.33 | 387.37 | 3/17/2016 | 40.06 | 111.90 | 71.84 | 64.20 | 41.20 | | 38.64 | 1.14 | | (1.42) |
| Clay | 21N08E36ABB1 | 36.4172556 | -90.16700833 | 283.00 | 3/17/2016 | 24.50 | 62.40 | 37.90 | 60.74 | | | 36.64 | | | 12.14 |
| Clay | 21N09E31BDA1 | 362447 | 900851 | 282.05 | 5/2/2016 | 3.60 | 69.38 | 65.78 | 94.81 | 4.30 | 7.50 | 7.00 | 0.70 | 3.90 | 3.40 |
| Clay | 19N03E24AAA1 | 361654.99 | 904157.11 | 274.38 | 3/17/2016 | 22.97 | 131.22 | 108.25 | 82.50 | 21.60 | 22.90 | 20.12 | (1.37) | (0.07) | (2.85) |
| Clay | 19N04E19AAA1 | 361654.4 | 904049.99 | 280.05 | 3/17/2016 | 31.38 | 139.50 | 108.12 | 77.50 | 32.50 | 32.75 | 31.07 | 1.12 | 1.37 | (0.31) |
| Clay | 19N07E25BCB1 | 361519 | 901700 | 271.42 | 5/2/2016 | 5.30 | 113.01 | 107.71 | 95.31 | 15.00 | | 18.00 | 9.70 | | 12.70 |
| Clay | 19N08E08DCA1 | 361729 | 901402 | 264.04 | 5/2/2016 | 3.50 | 88.42 | 84.92 | 96.04 | 2.90 | 6.20 | 7.00 | (0.60) | 2.70 | 3.50 |
| Clay | 19N09E19CDC1 | 361539 | 900908 | 261.88 | 5/2/2016 | 5.70 | 132.13 | 126.43 | 95.69 | 5.80 | | | 0.10 | | |
| Clay | 20N04E03ADA1 | 362425 | 903725 | 287.34 | 4/26/2016 | 16.00 | 128.66 | 112.66 | 87.56 | 15.40 | | | (0.60) | | |
| Clay | 20N05E22CAD1 | 362118 | 903132 | 289.80 | 4/26/2016 | 31.60 | 122.82 | 91.22 | 74.27 | 33.20 | 30.10 | 31.01 | 1.60 | (1.50) | (0.59) |
| Clay | 20N05E34DBA1 | 361939.31 | 903117.17 | 285.27 | 3/17/2016 | 34.00 | 121.53 | 87.53 | 72.02 | 34.30 | | 29.31 | 0.30 | | (4.69) |
| Clay | 20N06E09BBA1 | 362327 | 902620 | 286.98 | 4/26/2016 | 22.70 | 103.34 | 80.64 | 78.03 | 24.60 | 23.50 | 22.11 | 1.90 | 0.80 | (0.59) |
| Clay | 20N08E22BDC1 | 362111 | 901220 | 277.30 | 5/2/2016 | 6.60 | 37.06 | 30.46 | 82.19 | 7.70 | 10.80 | 9.00 | 1.10 | 4.20 | 2.40 |
| Clay | 20N09E09ABC1 | 362306 | 900642 | 279.13 | 5/2/2016 | 5.90 | 87.08 | 81.18 | 93.22 | 7.60 | 9.60 | 8.00 | 1.70 | 3.70 | 2.10 |
| Clay | 21N03E36CDD1 | 362450 | 904214 | 289.40 | 4/26/2016 | 23.40 | 138.22 | 114.82 | 83.07 | 20.30 | 20.10 | 19.10 | (3.10) | (3.30) | (4.30) |
| Clay | 21N04E09DBC1 | 362828 | 903853 | 290.19 | 4/26/2016 | 13.00 | 128.87 | 115.87 | 89.91 | 12.50 | 13.10 | 13.10 | (0.50) | 0.10 | 0.10 |
| Clay | 21N08E03CDB1 | 362848 | 901217 | 307.94 | 5/2/2016 | 17.90 | | | | 20.00 | 27.90 | 19.03 | 2.10 | 10.00 | 1.13 |
| | | | | | | | | | | | | | | | |
| | | | | | | **Avg. % Saturated:** | | | **84.85** | **Declines/Wells:** | | | **7/29** | **6/23** | **15/32** |
| | | | | | | | | | | **Average Change:** | | | **1.23** | **1.68** | **0.58** |
| | | | | | | | | | | | | | | | |
| Craighead | 13N01E23CAB1 | 354430 | 905736 | 242.09 | 4/6/2016 | 66.00 | 97.42 | 31.42 | 32.25 | 70.60 | 71.00 | 71.02 | 4.60 | 5.00 | 5.02 |
| Craighead | 13N01E23DAA | 35.74316667 | -90.94769167 | 242.09 | 3/23/2016 | 71.89 | 92.70 | 20.81 | 22.45 | | | 71.02 | | | (0.87) |
| Craighead | 13N04E12ABB1 | 354635 | 903656 | 232.05 | 3/25/2016 | 25.56 | 109.03 | 83.47 | 76.56 | 25.80 | 24.90 | 23.82 | 0.24 | (0.66) | (1.74) |
| Craighead | 13N05E24BAC1 | 354451 | 903045 | 224.87 | 4/6/2016 | 4.00 | 102.66 | 98.66 | 96.10 | 13.00 | 8.30 | 12.20 | 9.00 | 4.30 | 8.20 |
| Craighead | 13N06E21AAA1 | 354450 | 902701 | 222.90 | 4/6/2016 | 6.00 | 102.82 | 96.82 | 94.16 | 14.00 | 5.70 | | 8.00 | (0.30) | |
| Craighead | 13N07E02CAB1 | 354642 | 901901 | 225.79 | 4/6/2016 | 3.00 | 121.64 | 118.64 | 97.53 | 6.40 | 10.90 | 5.00 | 3.40 | 7.90 | 2.00 |
| Craighead | 13N07E05ABB1 | 354716 | 902158 | 226.67 | 4/6/2016 | 6.00 | 109.24 | 103.24 | 94.51 | 12.10 | 7.80 | 12.30 | 6.10 | 1.80 | 6.30 |
| Craighead | 14N01E10BAB1 | 355204 | 905828 | 250.33 | 4/6/2016 | 58.00 | 105.11 | 47.11 | 44.82 | 58.00 | 56.10 | 51.10 | 0.00 | (1.90) | (6.90) |
| Craighead | 14N02E27AAA1 | 354915.7 | 905124.5 | 255.28 | 4/19/2016 | 84.43 | 92.46 | 8.03 | 8.68 | 85.74 | 83.51 | 78.21 | 1.31 | (0.92) | (6.22) |
| Craighead | 15N06E20DDD1 | 35.90700833 | -90.460875 | 234.00 | 3/25/2016 | 7.40 | 87.20 | 79.80 | 91.51 | | 9.80 | 11.22 | | 2.40 | 3.82 |
| Craighead | 14N06E06BAA1 | 355234 | 902934 | 241.90 | 4/6/2016 | 20.00 | 101.65 | 81.65 | 80.32 | 21.40 | 21.30 | 22.40 | 1.40 | 1.30 | 2.40 |
| Craighead | 15N06E04BAD1 | 355744 | 902706 | 238.98 | 4/6/2016 | 11.00 | 77.87 | 66.87 | 85.87 | 18.00 | 17.80 | 15.50 | 7.00 | 6.80 | 4.50 |
| Craighead | 13N03E28CDB1 | 354322 | 904652 | 250.30 | 4/6/2016 | 117.00 | | | | 119.50 | 123.00 | 109.11 | 2.50 | 6.00 | (7.89) |
| Craighead | 13N04E15DBA1 | 354521 | 903857 | 230.84 | 4/6/2016 | 26.00 | 80.98 | 54.98 | 67.89 | 26.50 | 25.30 | 26.60 | 0.50 | (0.70) | 0.60 |
| Craighead | 13N04E26BCC1 | 354340 | 903829 | 227.43 | 4/6/2016 | 13.00 | 78.79 | 65.79 | 83.50 | 26.30 | 25.50 | 26.51 | 13.30 | 12.50 | 13.51 |
| Craighead | 13N05E02CCC1 | 354648 | 903202 | 228.44 | 4/6/2016 | 12.00 | 107.70 | 95.70 | 88.86 | 18.00 | 12.20 | 12.90 | 6.00 | 0.20 | 0.90 |

# 2016 Alluvial WL Change Percent Saturated
## 2006/2011/2015

| County | Station ID | Latitude | Longitude | USGS LSA | Date | 2016 DTW | Aquifer Thick. | Sat. ft. | % Sat. | 2015 DTW | 2011 DTW | 2006 DTW | 15-16 Change | 11-16 Change | 06-16 Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Craighead | 13N05E06DCC1 | 354637 | 903547 | 230.77 | 4/6/2016 | 21.00 | 111.44 | 90.44 | 81.16 | 27.00 | 19.90 | 20.02 | 6.00 | (1.10) | (0.98) |
| Craighead | 14N01E03ACB1 | 355246 | 905816 | 250.79 | 4/6/2016 | 57.00 | 105.57 | 48.57 | 46.01 | 55.50 | 52.10 | 50.90 | (1.50) | (4.90) | (6.10) |
| Craighead | 14N01E31DCA1 | 354817 | 910121 | 249.44 | 4/6/2016 | 60.00 | 107.86 | 47.86 | 44.37 | 65.70 | 62.00 | | 5.70 | 2.00 | |
| Craighead | 14N02E22AAA1 | 355007 | 905129 | 257.38 | 4/6/2016 | 81.00 | 119.27 | 38.27 | 32.09 | 75.00 | | | (6.00) | | |
| Craighead | 15N07E35DCB1 | 355241 | 901831 | 231.73 | 4/6/2016 | 7.00 | 113.84 | 106.84 | 93.85 | 13.90 | 14.30 | 14.61 | 6.90 | 7.30 | 7.61 |
| | | | | | | | | | | | | | | | |
| | | | | | | Avg. % Saturated: | | | 68.13 | Declines/Wells: | | | 2/19 | 7/19 | 7/18 |
| | | | | | | | | | | Average Change: | | | 3.92 | 2.47 | 1.34 |
| Crittenden | 05N07E08BDC1 | 35.0687035 | -90.37621034 | | 4/29/2016 | 27.00 | | | | | | | | | |
| Crittenden | 05N07E34BAB1 | 35.0164972 | -90.341628 | 203.18 | 3/15/2016 | 9.95 | 136.18 | 126.23 | 92.69 | 14.25 | 12.60 | 19.46 | 4.30 | 2.65 | 9.51 |
| Crittenden | 05N07E28CBA | 35.0225889 | -90.361069 | 203.77 | 3/15/2016 | 15.40 | 133.78 | 118.38 | 88.49 | 18.70 | 16.95 | 19.43 | 3.30 | 1.55 | 4.03 |
| Crittenden | 05N08E11CCD2 | 35.06243056 | -90.21895 | 211.00 | 3/28/2016 | 21.81 | | | | | | 28.32 | | | 6.51 |
| Crittenden | 06N07E13BAA1 | 350849.58 | 901807.57 | 207.64 | 3/15/2016 | 22.95 | 125.21 | 102.26 | 81.67 | 22.50 | 21.65 | 20.28 | (0.45) | (1.30) | (2.67) |
| Crittenden | 06N07E14ABA1 | 35.14675753 | -90.31620894 | | 4/26/2016 | 22.00 | | | | | | | | | |
| Crittenden | 07N06E29CBC1 | 35.19786654 | -90.4873252 | | 4/26/2016 | 42.00 | | | | | | | | | |
| Crittenden | 07N07E05DAD1 | 351504 | 902129 | 211.71 | 3/14/2016 | 31.76 | 141.34 | 109.58 | 77.53 | 32.10 | 31.29 | | 0.34 | (0.47) | |
| Crittenden | 07N07E31CCC1 | 351041.9 | 902358.97 | 205.48 | 3/14/2016 | 37.44 | 136.61 | 99.17 | 72.59 | 37.10 | 37.60 | 34.92 | (0.34) | 0.16 | (2.52) |
| Crittenden | 07N07E34AAD2 | 35.18781389 | -90.32789722 | 215.00 | 4/9/2016 | 31.10 | 150.50 | 119.40 | 79.34 | | | | | | |
| Crittenden | 07N08E04BBD1 | 35.26064393 | -90.25148513 | | 4/26/2016 | 21.00 | | | | | | | | | |
| Crittenden | 08N06E01DCC | 35.33925265 | -90.40232319 | 215.00 | 4/27/2016 | 35.00 | 123.00 | 88.00 | 71.54 | | | 32.00 | | | (3.00) |
| Crittenden | 08N06E26BB1 | 35.29342022 | -90.43065727 | | 4/9/2016 | 34.33 | | | | | | | | | |
| Crittenden | 08N07E32DAA1 | 35.27175431 | -90.36287738 | 215.00 | 4/26/2016 | 31.10 | 138.20 | 107.10 | 77.50 | | | 29.10 | | | (2.00) |
| Crittenden | 09N06E30ADD1 | 35.37647382 | -90.48454813 | 214.00 | 4/27/2016 | 31.00 | | | | | | | | | |
| Crittenden | 09N07E02CDB1 | 35.42690556 | -90.31874722 | 225.00 | 4/27/2016 | 32.00 | 126.00 | 94.00 | 74.60 | | | 31.70 | | | (0.30) |
| Crittenden | 09N07E10DDA1 | 352447.58 | 901924.64 | 224.51 | 3/14/2016 | 28.91 | 124.88 | 95.97 | 76.85 | 30.04 | 29.30 | 27.85 | 1.13 | 0.39 | (1.06) |
| Crittenden | 09N07E20DCC1 | 35.3822222 | -90.3661111 | 215.00 | 4/9/2016 | 30.44 | 118.00 | 87.56 | 74.20 | | | 28.20 | | | (2.24) |
| Crittenden | 09N07E31BAB1 | 35.366625 | -90.39071389 | 221.00 | 3/14/2016 | 32.78 | 124.70 | 91.92 | 73.71 | | 34.30 | 32.40 | | 1.52 | (0.38) |
| | | | | | | | | | | | | | | | |
| | | | | | | Avg. % Saturated: | | | 78.39 | Declines/Wells: | | | 2/6 | 2/7 | 8/11 |
| | | | | | | | | | | Average Change: | | | 1.38 | 0.64 | 0.53 |
| | | | | | | | | | | | | | | | |
| Cross | 07N01E06CAA1 | 351547.5 | 910134.5 | 217.72 | 5/4/2016 | 78.17 | 140.94 | 62.77 | 44.54 | 78.00 | | 73.00 | (0.17) | | (5.17) |
| Cross | 07N01E11AAA1 | 351501.25 | 905705.29 | 219.46 | 5/4/2016 | 82.76 | 146.19 | 63.43 | 43.39 | 83.61 | 79.30 | 76.58 | 0.85 | (3.46) | (6.18) |
| Cross | 07N02E29DDC1 | 351138.09 | 905409.17 | 218.01 | 5/4/2016 | 76.52 | 150.29 | 73.77 | 49.08 | 76.85 | 74.00 | 72.26 | 0.33 | (2.52) | (4.26) |
| Cross | 07N05E24CCC1 | 35.20897738 | -90.52260418 | | 4/26/2016 | 42.00 | | | | | | | | | |
| Cross | 07N05E25ABA1 | 351228.87 | 903044.79 | 202.23 | 5/5/2016 | 38.35 | 140.38 | 102.03 | 72.68 | 39.68 | 38.20 | 36.71 | 1.33 | (0.15) | (1.64) |
| Cross | 08N01E31DDC | 35.26622222 | -91.02561111 | | 4/4/2016 | 78.19 | | | | | | | | | |
| Cross | 08N05E32ADD1 | 351631.65 | 903440.45 | 203.44 | 5/5/2016 | 32.17 | 141.42 | 109.25 | 77.25 | 31.81 | 28.25 | 29.57 | (0.36) | (3.92) | (2.60) |
| Cross | 07N01E05CDA1 | 351517.52 | 910049.05 | 219.19 | 5/4/2016 | 79.69 | 143.46 | 63.77 | 44.45 | 79.38 | 79.30 | 76.58 | (0.31) | (0.39) | (3.11) |
| Cross | 09N01E33BBA2 | 352202.76 | 910000.6 | 226.97 | 5/4/2016 | 89.34 | 150.16 | 60.82 | 40.50 | 88.23 | 85.20 | 81.10 | (1.11) | (4.14) | (8.24) |
| | | | | | | | | | | | | | | | |
| | | | | | | Avg. % Saturated: | | | 53.13 | Declines/Wells: | | | 4/7 | 6/6 | 7/7 |
| | | | | | | | | | | Average Change: | | | 0.08 | (2.43) | (4.46) |
| | | | | | | | | | | | | | | | |

# 2016 Alluvial WL Change Percent Saturated
## 2006/2011/2015

| County | Station ID | Latitude | Longitude | USGS LSA | Date | 2016 DTW | Aquifer Thick. | Sat. ft. | % Sat. | 2015 DTW | 2011 DTW | 2006 DTW | 15-16 Change | 11-16 Change | 06-16 Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Desha | 08S03W33ABD1 | 33.9674778 | -91.393939 | 168.37 | 3/23/2016 | 5.26 | 153.21 | 147.95 | 96.57 | 8.21 | 14.20 | 7.24 | 2.95 | 8.94 | 1.98 |
| Desha | 09S01W08DBA1 | 33.93565972 | -91.20955938 | 156.00 | 3/8/2016 | 17.28 | 137.80 | 120.52 | 87.46 | | | | | | |
| Desha | 09S01W15CBB1 | 33.91704945 | -91.18205837 | 152.00 | 3/8/2016 | 41.59 | 138.80 | 97.21 | 70.04 | | | | | | |
| Desha | 09S02W26DDC1 | 335256.57 | 911529.64 | 149.27 | 4/26/2016 | 33.30 | 138.80 | 105.50 | 76.01 | 33.82 | 31.54 | 29.33 | 0.52 | (1.76) | (3.97) |
| Desha | 09S03W05BAC1 | 33.95121331 | -91.4184544 | 161.00 | 3/8/2016 | 43.68 | 146.50 | 102.82 | 70.18 | | 42.20 | | | (1.48) | |
| Desha | 09S03W13BAB1 | 33.91677013 | 91.32289603 | | 3/8/2016 | 36.18 | | | | | 38.60 | | | 2.42 | |
| Desha | 09S03W17DCB1 | 33.9133972 | -91.415739 | 154.66 | 3/23/2016 | 38.37 | 139.33 | 100.96 | 72.46 | 38.22 | 37.00 | 32.95 | (0.15) | (1.37) | (5.42) |
| Desha | 09S04W06CBB1 | 33.94141667 | -91.54905556 | 162.00 | 4/18/2016 | 48.00 | 148.00 | 100.00 | 67.57 | | 49.00 | | | 1.00 | |
| Desha | 10S01W23CDA | 33.884827.97 | -91.17566907 | | 3/8/2016 | 18.01 | | | | | 28.70 | | | 10.69 | |
| Desha | 10S02W02CAA1 | 33.86055556 | -91.26277778 | | 4/28/2016 | 34.82 | | | | | | | | | |
| Desha | 10S02W11ADD1 | 33.84593859 | -91.25483805 | 146.00 | 3/8/2016 | 34.00 | 128.20 | 94.20 | 73.48 | | 29.00 | 28.00 | | (5.00) | (6.00) |
| Desha | 10S02W20ADA1 | 33.8211111 | -91.306944 | 146.59 | 4/28/2016 | 44.65 | 126.26 | 81.61 | 64.64 | 42.32 | 41.40 | | (2.33) | (3.25) | |
| Desha | 10S03W26CAA1 | 33.80166667 | -91.362375 | 155.00 | 4/28/2016 | 52.27 | 131.80 | 79.53 | 60.34 | | | 44.80 | | | (7.47) |
| Desha | 10S03W26CCB1 | 33.79972222 | -91.37638889 | 150.00 | 3/11/2016 | 49.90 | 126.80 | 76.90 | 60.65 | | | 40.90 | | | (9.00) |
| Desha | 10S04W03BAB1 | 33.86905833 | -91.49657222 | | 3/23/2016 | 41.88 | | | | | | 35.09 | | | (6.79) |
| Desha | 10S04W11DDA1 | 33.84203611 | -91.46713333 | | 3/23/2016 | 38.21 | | | | | | 31.50 | | | (6.71) |
| Desha | 10S04W12CCB1 | 335048 | 912754 | 156.00 | 3/23/2016 | 37.92 | 136.40 | 98.48 | 72.20 | 38.00 | 35.01 | | 0.08 | (2.91) | |
| Desha | 11S03W16CBA1 | 33.74427352 | -91.40928726 | 155.00 | 3/8/2016 | 40.00 | 125.90 | 85.90 | 68.23 | | 36.00 | | | (4.00) | |
| Desha | 11S03W31BBA1 | 33.70783889 | -91.44752778 | | 4/27/2016 | 36.66 | | | | | | 35.14 | | | (1.52) |
| Desha | 11S02W15ADD1 | 33.74621834 | -91.27650487 | 144.00 | 3/8/2016 | 36.01 | 120.90 | 84.89 | 70.22 | | 35.40 | | | (0.61) | |
| Desha | 13S03W11CAB1 | 33.58427754 | -91.37817425 | 142.00 | 3/8/2016 | 56.55 | 96.40 | 39.85 | 41.34 | | | 51.00 | | | (5.55) |
| | | | | | | | | | | | | | | | |
| | | | | | | **Avg. % Saturated:** | | | **70.09** | **Declines/Wells:** | | | **2/5** | **8/12** | **9/10** |
| | | | | | | | | | | **Average Change:** | | | **0.21** | **0.22** | **(5.05)** |
| | | | | | | | | | | | | | | | |
| Drew | 11S04W08DBA1 | 33.75888333 | -91.52672222 | 160.00 | 4/5/2016 | 37.48 | 129.50 | 92.02 | 71.06 | | | 25.14 | | | (12.34) |
| Drew | 11S05W08CCC1 | 334546.48 | 913837.16 | 184.88 | 4/28/2016 | 39.29 | 149.10 | 109.81 | 73.65 | 26.20 | 40.10 | 36.48 | (13.09) | 0.81 | (2.81) |
| Drew | 11S05W12BA1 | 33.76388889 | -91.5677778 | | 3/10/2016 | 32.60 | | | | | | | | | |
| Drew | 12S04W03ABB1 | 334133.92 | 912946.13 | 154.40 | 4/5/2016 | 28.52 | 119.96 | 91.44 | 76.23 | 29.60 | 25.74 | 24.23 | 1.08 | (2.78) | (4.29) |
| Drew | 12S04W25DBB1 | 33.62760957 | -91.46067742 | 149.00 | 4/6/2016 | 36.00 | 108.00 | 72.00 | 66.67 | | 31.50 | 30.00 | | (4.50) | (6.00) |
| Drew | 13S04W09ACD1 | 33.58677711 | -91.50956777 | 145.00 | 4/6/2016 | 24.00 | 100.60 | 76.60 | 76.14 | | | | | | |
| Drew | 13S04W28CDD1 | 33.53513056 | -91.51675 | | 4/4/2016 | 20.49 | | | | | | 17.63 | | | (2.86) |
| Drew | 13S04W33BAA1 | 33.5351306 | -91.51675 | 138.32 | 4/28/2016 | 19.98 | 90.65 | 70.67 | 77.96 | 23.25 | 15.10 | 18.14 | 3.27 | (4.88) | (1.84) |
| Drew | 13S05W29ADA1 | 33.54673056 | -91.62980833 | 185.00 | 4/28/2016 | 46.91 | | | | | | 40.50 | | | (6.41) |
| Drew | 13S06W21DAA1 | 33.55677716 | -91.71623926 | 207.00 | 4/6/2016 | 77.00 | | | | | | 74.00 | | | (3.00) |
| Drew | 14S04W01BA1 | 33.51944444 | -91.46583333 | | 3/10/2016 | 32.43 | | | | | | | | | |
| Drew | 14S04W03ADD1 | 33.51400118 | -91.49151137 | | 4/6/2016 | 30.00 | | | | | 40.00 | 27.00 | | 10.00 | (3.00) |
| Drew | 14S04W03DB1 | 33.51083333 | -91.49555556 | | 3/10/2016 | 28.00 | | | | | | | | | |
| Drew | 14S04W05CBA1 | 33.51316772 | -91.53845703 | 131.00 | 4/6/2016 | 15.00 | 86.50 | 71.50 | 82.66 | | | 14.00 | | | (1.00) |
| | | | | | | | | | | | | | | | |
| | | | | | | **Avg. % Saturated:** | | | **74.91** | **Declines/Wells:** | | | **1/3** | **3/5** | **10/10** |
| | | | | | | | | | | **Average Change:** | | | **(2.91)** | **(0.27)** | **(4.36)** |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

# 2016 Alluvial WL Change Percent Saturated
## 2006/2011/2015

| County | Station ID | Latitude | Longitude | USGS LSA | Date | 2016 DTW | Aquifer Thick. | Sat. ft. | % Sat. | 2015 DTW | 2011 DTW | 2006 DTW | 15-16 Change | 11-16 Change | 06-16 Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Greene | 16N03E03BA1 | 360315.87 | 904515.85 | 260.24 | 3/17/2016 | 38.61 | 124.36 | 85.75 | 68.95 | 34.89 | | 30.73 | (3.72) | | (7.88) |
| Greene | 16N03E16DDD1 | 360049 | 904547 | 258.83 | 4/15/2016 | 37.00 | 113.52 | 76.52 | 67.41 | 37.00 | | | 0.00 | | |
| Greene | 16N03E19DBC | 360000 | 904519 | | 4/28/2016 | 55.50 | | | | | | 38.60 | | | (16.90) |
| Greene | 16N03E20CDA1 | 355957 | 904742 | 255.54 | 4/15/2016 | 37.00 | 109.32 | 72.32 | 66.15 | 37.50 | | | 0.50 | | |
| Greene | 17N03E02DCC1 | 360806 | 904352 | 265.16 | 4/14/2016 | 36.00 | 135.60 | 99.60 | 73.45 | 38.30 | 37.30 | 20.20 | 2.30 | 1.30 | (15.80) |
| Greene | 17N03E02BDB1 | 36.14221111 | -90.73704167 | 266.00 | 3/17/2016 | 35.96 | 136.40 | 100.44 | 73.64 | | | 32.60 | | | (3.36) |
| Greene | 17N03E32CDC1 | 360317 | 904735 | 255.41 | 4/15/2016 | 31.00 | 118.47 | 87.47 | 73.83 | 36.10 | | | 5.10 | | |
| Greene | 17N03E35CB1 | 360347 | 904437 | 260.17 | 4/14/2016 | 39.00 | 121.87 | 82.87 | 68.00 | 39.60 | 35.30 | | 0.60 | (3.70) | |
| Greene | 17N04E07AD1 | 360718 | 904122 | 274.67 | 4/14/2016 | 47.00 | 136.27 | 89.27 | 65.51 | 47.70 | 42.80 | 42.60 | 0.70 | (4.20) | (4.40) |
| Greene | 17N04E30CDC1 | 36.06956389 | -90.70521667 | 265.00 | 3/17/2016 | 43.71 | 124.20 | 80.49 | 64.81 | | | 37.39 | | | (6.32) |
| Greene | 17N06E15ABC1 | 360631 | 902546 | 268.21 | 4/15/2016 | 31.00 | 106.31 | 75.31 | 70.84 | 35.20 | 32.60 | 31.10 | 4.20 | 1.60 | 0.10 |
| Greene | 17N07E01BBA1 | 360832 | 901724 | 247.57 | 4/14/2016 | 5.00 | 125.17 | 120.17 | 96.01 | 4.60 | 5.70 | | (0.40) | 0.70 | |
| Greene | 17N07E18ABB1 | 36.11068889 | -90.37631389 | 245.00 | 3/15/2016 | 8.70 | 97.10 | 88.40 | 91.04 | | | 8.86 | | | 0.16 |
| Greene | 17N07E28CBA1 | 360424 | 902045 | 245.21 | 4/14/2016 | 5.00 | 113.59 | 108.59 | 95.60 | 4.30 | | | (0.70) | | |
| Greene | 18N03E13CD1 | 36.1950665 | -90.70927955 | | 5/5/2016 | 34.60 | | | | | | | | | |
| Greene | 18N03E24ACA1 | 361119 | 904216 | 270.11 | 4/14/2016 | 34.00 | 135.13 | 101.13 | 74.84 | 35.60 | 33.60 | 31.40 | 1.60 | (0.40) | (2.60) |
| Greene | 18N04E21CBD1 | 36.1812 | -90.62354444 | 294.00 | 3/16/2016 | 61.38 | | | | | 58.50 | 55.63 | | (2.88) | (5.75) |
| Greene | 18N06E23ABB1 | 361109 | 902402 | 281.04 | 4/14/2016 | 13.00 | 129.94 | 116.94 | 90.00 | 14.00 | | 14.90 | 1.00 | | 1.90 |
| Greene | 18N06E26CDD | 36.15728818 | -90.40343686 | | 3/17/2016 | 19.32 | | | | | | | | | |
| Greene | 18N07E05DAB1 | 361316 | 902024.5 | 264.01 | 4/14/2016 | 17.00 | 114.02 | 97.02 | 85.09 | 14.50 | 21.20 | | (2.50) | 4.20 | |
| Greene | 18N07E20BBA1 | 361110.37 | 902113.23 | 260.30 | 3/17/2016 | 8.98 | 113.12 | 104.14 | 92.06 | 9.95 | 12.75 | 10.92 | 0.97 | 3.77 | 1.94 |
| Greene | 18N07E23CCD | 361022 | 901747 | 250.00 | 5/4/2016 | 7.45 | 116.60 | 109.15 | 93.61 | | | 8.80 | | | 1.35 |
| Greene | 18N08E04AAC1 | 36.23228745 | -90.6484443 | | 4/14/2016 | 34.00 | | | | | | | | | |
| Greene | 19N03E33DDD1 | 361418 | 904516 | 275.16 | 4/14/2016 | 37.00 | 143.34 | 106.34 | 74.19 | 37.70 | 40.00 | 36.00 | 0.70 | 3.00 | (1.00) |
| Greene | 19N03E26AD | 36.2668667 | -90.716231 | 281.69 | 3/16/2016 | 30.04 | 143.03 | 112.99 | 79.00 | 30.50 | 30.80 | 29.50 | 0.46 | 0.76 | (0.54) |
| Greene | 16N06E03CCC1 | 360224.07 | 902625.9 | 256.46 | 3/15/2016 | 47.06 | 66.65 | 19.59 | 29.40 | 68.50 | 67.00 | 62.39 | 21.44 | 19.94 | 15.33 |
| Greene | 16N06E21BAA1 | 360031 | 902705 | 249.34 | 4/14/2016 | 30.00 | 80.35 | 50.35 | 62.66 | 32.40 | | 27.10 | 2.40 | | (2.90) |
| Greene | 17N07E03CCC1 | 360744 | 901951 | 244.29 | 4/14/2016 | 5.00 | 113.94 | 108.94 | 95.61 | 4.60 | | 5.80 | (0.40) | | 0.80 |
| Greene | 18N07E17BAB1 | 361203 | 902105 | 260.63 | 4/14/2016 | 15.00 | 111.02 | 96.02 | 86.49 | 9.30 | | 11.30 | (5.70) | | (3.70) |
| | | | | | | | | | | | | | | | |
| | | | | | | **Avg. % Saturated:** | | | **76.59** | **Declines/Wells:** | | | **6/20** | **4/12** | **12/19** |
| | | | | | | | | | | **Average Change:** | | | **1.43** | **2.01** | **(2.61)** |
| | | | | | | | | | | | | | | | |
| Independence | 11N04W22BBA | 35.5691667 | -91.418333 | 220.31 | 3/16/2016 | 1.00 | 121.23 | 120.23 | 99.18 | 6.80 | | 10.20 | 5.80 | | 9.20 |
| Independence | 12N04W14DD1 | 353929.42 | 912236.26 | 232.55 | 3/14/2016 | 16.57 | 127.12 | 110.55 | 86.96 | 22.53 | | 27.03 | 5.96 | | 10.46 |
| Independence | 12N05W36AAA | 35.6272333 | -91.474228 | 237.04 | 3/16/2016 | 10.00 | 132.91 | 122.91 | 92.48 | 20.12 | | 25.64 | 10.12 | | 15.64 |
| Independence | 12N04W34CBB1 | 353720.1 | 912512.5 | 229.46 | 3/14/2016 | 12.63 | 126.62 | 113.99 | 90.02 | 17.62 | | 23.51 | 4.99 | | 10.88 |
| Independence | 12N04W35CCB | 35.6195235 | -91.395965 | 225.98 | 3/16/2016 | 15.00 | 124.00 | 109.00 | 87.90 | 3.10 | | | (11.90) | | |
| Independence | 13N04W02BBC | 354803 | 912347 | | 4/28/2016 | 1.75 | | | | | | | | | |
| Independence | 14N03W14CB2 | 35.8513889 | -91.283333 | 230.74 | 3/16/2016 | 2.00 | 103.12 | 101.12 | 98.06 | 2.10 | 1.60 | 2.40 | 0.10 | (0.40) | 0.40 |
| Independence | 14N03W14DBB1 | 355106 | 911640.42 | 230.74 | 3/14/2016 | 1.65 | 102.77 | 101.12 | 98.39 | 1.58 | | 5.93 | (0.07) | | 4.28 |
| | | | | | | | | | | | | | | | |
| | | | | | | **Avg. % Saturated:** | | | **93.29** | **Declines/Wells:** | | | **2/7** | | **0/6** |
| | | | | | | | | | | **Average Change:** | | | **2.14** | | **8.48** |

# 2016 Alluvial WL Change Percent Saturated
## 2006/2011/2015

| County | Station ID | Latitude | Longitude | USGS LSA | Date | 2016 DTW | Aquifer Thick. | Sat. ft. | % Sat. | 2015 DTW | 2011 DTW | 2006 DTW | 15-16 Change | 11-16 Change | 06-16 Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jackson | 11N03W05CAB1 | 353655 | 912008 | 224.61 | 3/10/2016 | 11.00 | 128.83 | 117.83 | 91.46 | 8.00 | | | (3.00) | | |
| Jackson | 11N03W06DAB1 | 353655.13 | 912008.5 | 219.42 | 3/14/2016 | 8.46 | 125.52 | 117.06 | 93.26 | 8.01 | 18.80 | 22.23 | (0.45) | 10.34 | 13.77 |
| Jackson | 11N03W07BBD | 35.6041667 | -91.3464 | 215.00 | 4/15/2016 | 7.53 | 119.00 | 111.47 | 93.67 | | | 22.23 | | | 14.70 |
| Jackson | 13N03W35AA1 | 354329 | 911612 | 236.94 | 3/10/2016 | 7.90 | 115.49 | 107.59 | 93.16 | 11.00 | | | 3.10 | | |
| Jackson | 09N01W22ADD1 | 35.39210278 | -91.07571389 | 215.00 | 3/14/2016 | 64.38 | 137.00 | 72.62 | 53.01 | | | 61.72 | | | (2.66) |
| Jackson | 09N02W32BBB1 | 352215 | 911344 | 221.33 | 3/10/2016 | 32.00 | 136.51 | 104.51 | 76.56 | 32.60 | | 34.00 | 0.60 | | 2.00 |
| Jackson | 09N02W32CBB1 | 352151.79 | 911347.79 | 210.01 | 3/14/2016 | 29.93 | 124.42 | 94.49 | 75.94 | 31.71 | | 30.29 | 1.78 | | 0.36 |
| Jackson | 10N01W32DDC1 | 35.44466667 | -91.11277778 | | 3/14/2016 | 48.21 | | | | | | | | | |
| Jackson | 10N02W29ABB1 | 352828.7 | 911311.86 | 218.44 | 3/14/2016 | 27.37 | 138.47 | 111.10 | 80.23 | 27.45 | 28.70 | 27.94 | 0.08 | 1.33 | 0.57 |
| Jackson | 11N01W29AAD1 | 35.56073889 | -91.10979722 | 225.00 | 3/15/2016 | 44.62 | 150.60 | 105.98 | 70.37 | | | 39.07 | | | (5.55) |
| Jackson | 11N01W26AAD1 | 353329.77 | 910323.21 | 221.19 | 3/10/2016 | 81.00 | 138.36 | 57.36 | 41.46 | 72.70 | | 67.06 | (8.30) | | (13.94) |
| Jackson | 12N01W11BCB1 | 354127 | 910416 | 231.04 | 3/10/2016 | 41.00 | 121.33 | 80.33 | 66.21 | 42.00 | | 38.20 | 1.00 | | (2.80) |
| Jackson | 12N04W10BBC | 35.6852778 | -91.399167 | 234.78 | 3/16/2016 | 17.00 | 124.27 | 107.27 | 86.32 | 24.70 | | | 7.70 | | |
| Jackson | 13N01W27DD1 | 35.72424387 | -91.07345653 | 233.00 | 4/15/2016 | 40.00 | 113.30 | 73.30 | 64.70 | | 35.90 | 36.40 | | (4.10) | (3.60) |
| Jackson | 13N01W20AAA1 | 354514.14 | 910627.47 | 245.28 | 3/14/2016 | 41.60 | 119.27 | 77.67 | 65.12 | 42.20 | | 39.26 | 0.60 | | (2.34) |
| Jackson | 14N01W09AAA1 | 35.87232222 | -91.08754444 | 251.00 | 3/15/2016 | 47.07 | 114.10 | 67.03 | 58.75 | 47.38 | 45.00 | 42.42 | 0.31 | (2.07) | (4.65) |
| Jackson | 14N02W22BBC1 | 355026 | 911145 | 245.57 | 3/10/2016 | 26.00 | 114.11 | 88.11 | 77.21 | 27.10 | | 28.00 | 1.10 | | 2.00 |
| | | | | | | | | | | | | | | | |
| | | | | | | **Avg. % Saturated:** | | | **74.21** | **Declines/Wells:** | | | **3/12** | **2/4** | **7/13** |
| | | | | | | | | | | **Average Change:** | | | **0.38** | **1.38** | **(0.16)** |
| | | | | | | | | | | | | | | | |
| Jefferson | 03S09W29CBD1 | 342516.81 | 920023.32 | 218.50 | 3/4/2016 | 28.53 | 115.15 | 86.62 | 75.22 | 28.93 | 26.59 | 29.11 | 0.40 | (1.94) | 0.58 |
| Jefferson | 03S09W36ACC1 | 34.40787381 | -91.93208231 | 214.00 | 2/8/2016 | 59.40 | 121.00 | 61.60 | 50.91 | | | | | | |
| Jefferson | 03S10W35BBC1 | 34.41370686 | 92.06625382 | 215.00 | 3/29/2016 | 11.00 | 107.90 | 96.90 | 89.81 | | 11.80 | 15.70 | | 0.80 | 4.70 |
| Jefferson | 04S07W08CCB | 34.37388889 | -91.79583333 | 195.00 | 3/17/2016 | 50.97 | 113.00 | 62.03 | 54.89 | | | 47.75 | | | (3.22) |
| Jefferson | 04S07W35DDB | 34.31009707 | -91.72895225 | 185.00 | 3/23/2016 | 35.60 | 109.60 | 74.00 | 67.52 | | 28.20 | 27.30 | | (7.40) | (8.30) |
| Jefferson | 04S08W13DCB1 | 342122.85 | 914926.45 | 200.69 | 3/4/2016 | 49.12 | 120.47 | 71.35 | 59.23 | 41.70 | | 48.34 | (7.42) | | (0.78) |
| Jefferson | 05S06W31CAA1 | 34.2249833 | -91.701694 | 188.91 | 3/4/2016 | 16.60 | 116.42 | 99.82 | 85.74 | 16.90 | 18.90 | 19.85 | 0.30 | 2.30 | 3.25 |
| Jefferson | 05S07W29DDD1 | 34.23625556 | -91.78163333 | | 3/23/2016 | 17.00 | | | | | | | | | |
| Jefferson | 05S08W12DAA1 | 34.28676386 | -91.81874405 | 194.25 | 3/4/2016 | 20.10 | 120.90 | 100.80 | 83.37 | | 20.11 | 18.98 | | 0.01 | (1.12) |
| Jefferson | 06S06W23AAD | 34.1685389 | -91.620056 | 186.68 | 3/4/2016 | 16.39 | 127.62 | 111.23 | 87.16 | 19.30 | 17.80 | 21.23 | 2.91 | 1.41 | 4.84 |
| Jefferson | 06S05W15BCA1 | 341022.95 | 913245 | 177.13 | 3/4/2016 | 16.90 | 140.64 | 123.74 | 87.98 | 16.91 | 16.76 | 18.58 | 0.01 | (0.14) | 1.68 |
| Jefferson | 06S05W16ADD1 | 34.16722222 | -91.55002778 | | 3/4/2016 | 18.55 | | | | | | | | | |
| Jefferson | 06S07W02BCA1 | 34.21509787 | -91.74401872 | | 3/4/2016 | 17.83 | | | | | | | | | |
| Jefferson | 06S07W14BAA | 34.1902667 | -91.740481 | 201.12 | 3/4/2016 | 13.90 | 124.46 | 110.56 | 88.83 | 15.95 | 15.15 | 16.07 | 2.05 | 1.25 | 2.17 |
| Jefferson | 07S07W16BAA1 | 34.1228768 | -91.80791007 | 188.00 | 3/16/2016 | 26.40 | 126.50 | 100.10 | 79.13 | | 24.80 | 28.00 | | (1.60) | 1.60 |
| Jefferson | 07S08W06BAA1 | 340858.53 | 915647.26 | 199.77 | 3/16/2016 | 20.05 | 114.12 | 94.07 | 82.43 | 20.58 | 19.47 | 18.65 | 0.53 | (0.58) | (1.40) |
| | | | | | | | | | | | | | | | |
| | | | | | | **Avg. % Saturated:** | | | **76.33** | **Declines/Wells:** | | | **1/7** | **5/10** | **5/12** |
| | | | | | | | | | | **Average Change:** | | | **(0.17)** | **(0.59)** | **0.33** |
| | | | | | | | | | | | | | | | |
| Lawrence | 15N01E26DDA1 | 355401.91 | 905639.34 | 255.61 | 3/16/2016 | 59.50 | 110.95 | 51.45 | 46.37 | 55.42 | 54.30 | 51.93 | (4.08) | (5.20) | (7.57) |
| Lawrence | 15N01W35CBB1 | 355336.15 | 910356.33 | 251.54 | 3/15/2016 | 51.44 | 113.34 | 61.90 | 54.62 | 52.25 | 47.70 | 44.98 | 0.81 | (3.74) | (6.46) |
| Lawrence | 17N02E25CBD1 | 360423 | 904948 | 265.35 | 4/7/2016 | 44.00 | 132.21 | 88.21 | 66.72 | 41.20 | 41.80 | 38.10 | (2.80) | (2.20) | (5.90) |

# 2016 Alluvial WL Change Percent Saturated
## 2006/2011/2015

| County | Station ID | Latitude | Longitude | USGS LSA | Date | 2016 DTW | Aquifer Thick. | Sat. ft. | % Sat. | 2015 DTW | 2011 DTW | 2006 DTW | 15-16 Change | 11-16 Change | 06-16 Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lawerence | 16N01W30DDC1 | 355936.93 | 910723.26 | 246.72 | 4/7/2016 | 16.00 | 113.59 | 97.59 | 85.91 | 20.00 | | 21.60 | 4.00 | | 5.60 |
| Lawerence | 17N01W36AAB1 | 36.07645919 | -91.03290039 | 257.00 | 4/7/2016 | 14.00 | 125.40 | 111.40 | 88.84 | | | 13.10 | | | (0.90) |
| Lawerence | 17N01E02BBA1 | 360901 | 905707 | 260.17 | 4/7/2016 | 17.00 | 133.74 | 116.74 | 87.29 | 18.50 | | 15.00 | 1.50 | | (2.00) |
| Lawerence | 17N02E04DCA1 | 360758 | 905224 | 270.21 | 4/7/2016 | 47.00 | 145.12 | 98.12 | 67.61 | 39.00 | | 40.90 | (8.00) | | (6.10) |
| | | | | | | | | | | | | | | | |
| | | | | | | Avg. % Saturated: | | | 71.05 | Declines/Wells: | | | 3/6 | 3/3 | 6/7 |
| | | | | | | | | | | Average Change: | | | (1.43) | (3.71) | (3.33) |
| | | | | | | | | | | | | | | | |
| Lee | 02N01W12BAA1 | 34.80785 | -91.05820833 | 185.00 | 3/17/2016 | 49.58 | 143.7 | 94.12 | 65.50 | | | 43.52 | | | (6.06) |
| Lee | 02N01E29AA1 | 34.76205 | -91.01869167 | 185.00 | 4/1/2016 | 56.30 | 144.10 | 87.80 | 60.93 | | | | | | |
| Lee | 02N02E07BB1 | 34.79777778 | -90.90338889 | | 4/1/2016 | 55.70 | | | | | | | | | |
| Lee | 02N02E08ADC1 | 344807.34 | 905338.75 | 204.59 | 3/18/2016 | 50.38 | 155.40 | 105.02 | 67.58 | 44.60 | 45.80 | 43.46 | (5.78) | (4.58) | (6.92) |
| Lee | 02N03E08ADD1 | 34.80296944 | -90.81050833 | 211.00 | 3/17/2016 | 46.76 | 156.80 | 110.04 | 70.18 | | 46.69 | 43.89 | | (0.07) | (2.87) |
| Lee | 02N04E15DAC1 | 344636.73 | 903950.39 | 174.84 | 3/18/2016 | 17.20 | 124.71 | 107.51 | 86.21 | 20.05 | 21.00 | 17.62 | 2.85 | 3.80 | 0.42 |
| Lee | 03N01E03CBC1 | 34.89958333 | -90.99627778 | | 3/17/2016 | 72.14 | | | | | | | | | |
| Lee | 03N01W10DC1 | 34.88169722 | -91.08995556 | 205.00 | 4/2/2016 | 77.70 | 160.30 | 82.60 | 51.53 | | | 71.80 | | | (5.90) |
| Lee | 03N01E15CCB1 | 345206 | 905947 | 205.09 | 3/17/2016 | 69.72 | 157.95 | 88.23 | 55.86 | 69.51 | 68.10 | | (0.21) | (1.62) | |
| Lee | 03N02E13BBA1 | 345237.4 | 905107.32 | 190.91 | 3/17/2016 | 52.21 | 139.00 | 86.79 | 62.44 | 52.30 | 49.00 | 49.98 | 0.09 | (3.21) | (2.23) |
| Lee | 03N02E29DAD1 | 34.83711667 | -90.90827222 | 205.00 | 3/17/2016 | 50.34 | 155.00 | 104.66 | 67.52 | | 45.90 | 42.71 | | (4.44) | (7.63) |
| Lee | 03N05E14DDA1 | 345148.08 | 903203.25 | 189.60 | 3/18/2016 | 12.09 | 147.53 | 135.44 | 91.81 | 13.10 | 13.10 | 13.56 | 1.01 | 1.01 | 1.47 |
| Lee | 01N03E35BBA1 | 343923 | 904549 | 201.18 | 3/17/2016 | 18.12 | 138.93 | 120.81 | 86.96 | 18.10 | | 10.24 | (0.02) | | (7.88) |
| Lee | 02N01E23BAA2 | 344631.74 | 905820.4 | 200.13 | 3/18/2016 | 58.29 | 156.48 | 98.19 | 62.75 | 57.20 | | 50.18 | (1.09) | | (8.11) |
| | | | | | | | | | | | | | | | |
| | | | | | | Avg. % Saturated: | | | 69.10 | Declines/Wells: | | | 4/7 | 5/7 | 8/10 |
| | | | | | | | | | | Average Change: | | | (0.45) | (1.30) | (4.57) |
| | | | | | | | | | | | | | | | |
| Lincoln | 07S06W03CCA2 | 34.14121007 | -91.68735067 | 190.00 | 4/16/2016 | 15.00 | 114.30 | 99.30 | 86.88 | | 26.00 | 19.00 | | 11.00 | 4.00 |
| Lincoln | 07S07W36CBD | 34.069822 | -91.75818611 | 183.00 | 4/15/2016 | 40.00 | 116.20 | 76.20 | 65.58 | | 41.00 | 38.00 | | 1.00 | (2.00) |
| Lincoln | 08S04W06ABD1 | 34.06148891 | -91.52123503 | 171.00 | 4/18/2016 | 22.00 | 101.50 | 79.50 | 78.33 | | 31.00 | 20.00 | | 9.00 | (2.00) |
| Lincoln | 08S04W29ABC1 | 34.00593389 | -91.51234584 | | 4/18/2016 | 49.00 | | | | | | | | | |
| Lincoln | 08S05W12AAD1 | 34.04621128 | 913214 | 165.00 | 4/15/2016 | 19.00 | 109.90 | 90.90 | 82.71 | | | | | | |
| Lincoln | 08S05W21DCD1 | 34.00760057 | -91.5926259 | 169.00 | 4/15/2016 | 30.00 | 129.70 | 99.70 | 76.87 | | | 35.00 | | | 5.00 |
| Lincoln | 08S05W32DCC1 | 33.97787891 | -91.6123487 | 172.00 | 4/18/2016 | 51.00 | 137.30 | 86.30 | 62.86 | | 60.00 | 43.00 | | 9.00 | (8.00) |
| Lincoln | 08S07W05DDD | 34.050225 | -91.817422 | 189.14 | 4/6/2016 | 36.85 | 132.40 | 95.55 | 72.17 | 31.59 | 30.50 | 29.96 | (5.26) | (6.35) | (6.89) |
| Lincoln | 09S05W14AAA1 | 335553.02 | 913439.08 | 166.31 | 4/6/2016 | 43.77 | 145.38 | 101.61 | 69.89 | | 43.11 | 37.21 | | (0.66) | (6.56) |
| Lincoln | 09S05W14ABC1 | 33.93139444 | -91.57752222 | 172.50 | 4/6/2016 | 70.00 | 152.80 | 82.80 | 54.19 | 45.83 | | | | | |
| Lincoln | 09S05W17BCB | 33.9309972 | -91.638875 | 171.65 | 4/27/2016 | 42.80 | 133.94 | 91.14 | 68.05 | 41.60 | 39.90 | 41.09 | (1.20) | (2.90) | (1.71) |
| Lincoln | 09S05E19CCC1 | 33.90788036 | -91.66151675 | 171.00 | 4/18/2016 | 37.00 | 131.40 | 94.40 | 71.84 | | 37.00 | | | 0.00 | |
| Lincoln | 09S06W04BCD | 335821.38 | 914345.83 | 181.82 | 4/6/2016 | 46.50 | 123.77 | 77.27 | 62.43 | 45.57 | 42.30 | 38.12 | (0.93) | (4.20) | (8.38) |
| Lincoln | 09S06W04BDD | 33.96649027 | -91.72651858 | 178.00 | 4/18/2016 | 49.00 | 122.90 | 73.90 | 60.13 | | 58.00 | 36.00 | | 9.00 | (13.00) |
| Lincoln | 10S05W06DCC1 | 335155.3 | 913907.96 | 191.08 | 4/6/2016 | 33.30 | | | | 30.00 | 28.65 | 29.92 | (3.30) | (4.65) | (3.38) |
| | | | | | | | | | | | | | | | |
| | | | | | | Avg. % Saturated: | | | 70.15 | Declines/Wells: | | | 4/4 | 5/11 | 9/11 |
| | | | | | | | | | | Average Change: | | | (2.67) | 1.84 | (3.90) |

# 2016 Alluvial WL Change Percent Saturated
## 2006/2011/2015

| County | Station ID | Latitude | Longitude | USGS LSA | Date | 2016 DTW | Aquifer Thick. | Sat. ft. | % Sat. | 2015 DTW | 2011 DTW | 2006 DTW | 15-16 Change | 11-16 Change | 06-16 Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lonoke | 01N07W27AAD1 | 344103.48 | 914410.4 | 200.49 | 3/3/2016 | 145.32 | | | | 132.50 | 134.85 | | (12.82) | (10.47) | |
| Lonoke | 01N08W26CCB1 | 344034.61 | 915043.43 | 209.61 | 3/2/2016 | 109.00 | | | | 107.39 | 104.88 | | (1.61) | (4.12) | |
| Lonoke | 01N09W13DAB1 | 344235.17 | 915517.01 | 222.11 | 3/2/2016 | 87.35 | 103.12 | 15.77 | 15.29 | 86.32 | 83.50 | 86.74 | (1.03) | (3.85) | (0.61) |
| Lonoke | 01S06W31ABB1 | 343459.39 | 914131.48 | 197.54 | 3/3/2016 | 81.31 | 118.67 | 37.36 | 31.48 | 81.01 | 79.30 | 78.13 | (0.30) | (2.01) | (3.18) |
| Lonoke | 01S07W04DD1 | 34.64703783 | -91.75513372 | 198.70 | 4/8/2016 | 105.55 | 114.60 | 9.05 | 7.90 | | | | | | |
| Lonoke | 01S07W12ABA1 | 34.64286389 | -91.70828889 | | 3/3/2016 | 94.17 | | | | | | 69.13 | | | (25.04) |
| Lonoke | 01S08W24CDD1 | 343605.64 | 914912.37 | 205.71 | 3/2/2016 | 87.55 | 111.20 | 23.65 | 21.27 | 84.85 | 82.80 | 81.00 | (2.70) | (4.75) | (6.55) |
| Lonoke | 01S09W36CCC1 | 343435.31 | 915618.98 | 224.48 | 3/2/2016 | 65.44 | 118.00 | 52.56 | 44.54 | 64.71 | 61.93 | 62.51 | (0.73) | (3.51) | (2.93) |
| Lonoke | 01S10W01ACB1 | 343926.84 | 920214.96 | 234.88 | 3/2/2016 | 44.23 | 117.65 | 73.42 | 62.41 | 43.41 | 43.50 | 45.92 | (0.82) | (0.73) | 1.69 |
| Lonoke | 02N08W16ABC1 | 344806.48 | 915113.61 | 239.34 | 3/2/2016 | 127.79 | 160.07 | 32.28 | 20.17 | 127.35 | 124.35 | 128.39 | (0.44) | (3.44) | 0.60 |
| Lonoke | 02N10W23BCA1 | 344725.25 | 920322.15 | 240.35 | 3/2/2016 | 13.57 | 132.33 | 118.76 | 89.75 | 12.45 | 9.40 | | (1.12) | (4.17) | |
| Lonoke | 02S07W10CCB1 | 343246.45 | 914524.67 | 196.75 | 3/3/2016 | 66.71 | 109.34 | 42.63 | 38.99 | 66.40 | 61.70 | 62.39 | (0.31) | (5.01) | (4.32) |
| Lonoke | 02S07W16BAB1 | 34.8042222 | -91.76097222 | 240.00 | 3/3/2016 | 145.80 | 150.70 | 4.90 | 3.25 | | | 137.64 | | | (8.16) |
| Lonoke | 02S08W06BAA1 | 343430 | 915447 | 220.64 | 3/2/2016 | 70.16 | 119.82 | 49.66 | 41.45 | 70.09 | 66.87 | 67.34 | (0.07) | (3.29) | (2.82) |
| Lonoke | 02S08W28CDC1 | 343007 | 915237 | 216.60 | 3/3/2016 | 65.06 | 121.86 | 56.80 | 46.61 | 64.95 | 62.57 | 60.50 | (0.11) | (2.49) | (4.56) |
| Lonoke | 02S08W34DBB1 | 343002.96 | 915149.75 | 215.65 | 3/3/2016 | 65.92 | 119.74 | 53.82 | 44.95 | 67.00 | | 66.62 | 1.08 | | 0.70 |
| Lonoke | 02N09W02BDB | 34.8319611 | -91.978036 | 258.46 | 3/2/2016 | 108.80 | 167.07 | 58.27 | 34.88 | 110.28 | | 126.04 | 1.48 | | 17.24 |
| Lonoke | 02N09W17CBC2 | 34.79754167 | -92.0027 | 255.00 | 3/25/2016 | 80.34 | 151.30 | 70.96 | 46.90 | | | | | | |
| Lonoke | 02N09W17CBC3 | 34.79625833 | -92.00208333 | 255.00 | 3/25/2016 | 80.24 | 151.30 | 71.06 | 46.97 | | | | | | |
| Lonoke | 02S09W30CDD1 | 34.50398333 | -92.02111389 | 226.00 | 2/29/2016 | 39.20 | 116.90 | 77.70 | 66.47 | | | 39.44 | | | 0.24 |
| Lonoke | 03N07W08BDB1 | 34.90183889 | -91.7773 | | 4/5/2016 | 101.56 | | | | 101.89 | 99.27 | 96.59 | 0.33 | (2.29) | (4.97) |
| Lonoke | 03N07W29ADA1 | 34.857925 | -91.76622222 | 234.00 | 4/5/2016 | 97.32 | 152.70 | 55.38 | 36.27 | 97.14 | 93.59 | 94.92 | (0.18) | (3.73) | (2.40) |
| Lonoke | 03N07W35CDC2 | 34.83254444 | -91.72558611 | 232.00 | 3/3/2016 | 120.11 | 144.60 | 24.49 | 16.94 | 118.50 | 117.75 | 116.10 | (1.61) | (2.36) | (4.01) |
| Lonoke | 03N08W03BAA1 | 34.92181667 | -91.8482 | | 4/5/2016 | 103.63 | | | | 103.57 | 100.78 | 94.85 | (0.06) | (2.85) | (8.78) |
| Lonoke | 03N08W03CCC1 | 34.90829444 | -91.85644444 | | 3/30/2016 | 109.80 | | | | 111.81 | 107.13 | 102.29 | 2.01 | (2.67) | (7.51) |
| Lonoke | 03N08W08ABA1 | 34.90749444 | -91.87996389 | | 3/29/2016 | 101.56 | | | | 101.11 | 98.38 | 92.19 | (0.45) | (3.18) | (9.37) |
| Lonoke | 03N08W10ACB1 | 34.90406944 | -91.84798333 | | 4/5/2016 | 95.63 | | | | 97.70 | 94.99 | 91.13 | 2.07 | (0.64) | (4.50) |
| Lonoke | 03N08W10ADD1 | 34.90029444 | -91.83966111 | | 3/30/2016 | 99.60 | | | | 100.98 | 98.01 | 89.83 | 1.38 | (1.59) | (9.77) |
| Lonoke | 03N08W11ACA1 | 34.90353333 | -91.82618333 | | 4/7/2016 | 107.31 | | | | | 104.85 | 99.77 | | (2.46) | (7.54) |
| Lonoke | 03N08W29BBB1 | 34.86308333 | -91.89244722 | | 3/29/2016 | 115.22 | | | | 117.04 | 113.08 | 112.01 | 1.82 | (2.14) | (3.21) |
| Lonoke | 03N08W29BCC1 | 34.85694722 | -91.89261111 | | 3/29/2016 | 119.03 | | | | 131.89 | 128.43 | 128.60 | 12.86 | 9.40 | 9.57 |
| Lonoke | 03N08W32ABB1 | 34.849475 | -91.88111667 | 250.00 | 4/14/2016 | 122.17 | 189.20 | 67.03 | 35.43 | | | 118.35 | | | (3.82) |
| Lonoke | 03N08W32ABB3 | 34.84941944 | -91.88211111 | 250.00 | 5/5/2016 | 56.38 | 189.20 | 132.82 | 70.20 | | 56.75 | 56.46 | | 0.37 | 0.08 |
| Lonoke | 04N08W15BCB2 | 345832.92 | 915121.25 | 214.96 | 5/5/2016 | 34.47 | 136.65 | 102.18 | 74.77 | 35.65 | 37.15 | 34.86 | 1.18 | 2.68 | 0.39 |
| Lonoke | 04N08W16DCC1 | 34.96590556 | -91.86500556 | | 3/29/2016 | 49.11 | | | | 49.70 | 48.16 | 46.06 | 0.59 | (0.95) | (3.05) |
| Lonoke | 04N08W28CAC1 | 34.93896389 | -91.87105 | | 3/29/2016 | 59.42 | | | | 57.15 | 57.17 | 55.11 | (2.27) | (2.25) | (4.31) |
| Lonoke | 04N08W28CCC1 | 34.93738056 | -91.87369722 | | 3/29/2016 | 63.40 | | | | 66.88 | 62.84 | 60.44 | 3.48 | (0.56) | (2.96) |
| Lonoke | 04N08W33ABD1 | 34.93294444 | -91.86147222 | | 4/7/2016 | 92.40 | | | | 93.00 | | | 0.60 | | |
| Lonoke | 04N08W33ACD | 34.92969444 | -91.86136111 | | 4/7/2016 | 110.76 | | | | 95.79 | 92.93 | | (14.97) | (17.83) | |
| Lonoke | 04N08W33ADB1 | 34.93127778 | -91.85694444 | | 4/7/2016 | 103.75 | | | | 102.51 | 104.04 | | (1.24) | 0.29 | |
| Lonoke | 04N08W33ADD | 34.92952778 | -91.82067222 | | 4/7/2016 | 105.05 | | | | 105.49 | 103.24 | | 0.44 | (1.81) | |
| Lonoke | 04N08W36DBB1 | 34.927925 | -91.82067222 | | 4/8/2016 | 97.76 | | | | 97.72 | 94.89 | 94.09 | (0.04) | (2.87) | (3.67) |
| | | | | | | **Avg. % Saturated:** | | | **40.77** | **Declines/Wells:** | | | **20/33** | **28/32** | **24/32** |
| | | | | | | | | | | **Average Change:** | | | **(0.41)** | **(2.67)** | **(3.36)** |

2016 Alluvial WL Change Percent Saturated

2006/2011/2015

| County | Station ID | Latitude | Longitude | USGS LSA | Date | 2016 DTW | Aquifer Thick. | Sat. ft. | % Sat. | 2015 DTW | 2011 DTW | 2006 DTW | 15-16 Change | 11-16 Change | 06-16 Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mississippi | 10N08E22ABA2 | 352850.89 | 901312.16 | 226.18 | 3/16/2016 | 28.24 | 150.74 | 122.50 | 81.27 | 27.93 | | 24.04 | (0.31) | | (4.20) |
| Mississippi | 11N09E34BBB1 | 353217.73 | 900715.17 | 236.65 | 3/16/2016 | 20.79 | 190.78 | 169.99 | 89.10 | 19.20 | 14.10 | 16.70 | (1.59) | (6.69) | (4.09) |
| Mississippi | 12N08E08BCB1 | 354047.06 | 901559.25 | 222.51 | 3/16/2016 | 7.53 | 134.35 | 126.82 | 94.40 | 9.10 | 9.60 | 10.07 | 1.57 | 2.07 | 2.54 |
| Mississippi | 13N09E30CCD1 | 354247.81 | 901028.63 | 230.41 | 3/23/2016 | 6.57 | 148.24 | 141.67 | 95.57 | 10.60 | 11.30 | 12.88 | 4.03 | 4.73 | 6.31 |
| Mississippi | 14N08E12DAB1 | 35.85115833 | -90.18109444 | 235.00 | 3/23/2016 | 3.33 | 166.10 | 162.77 | 98.00 | | | 8.38 | | | 5.05 |
| Mississippi | 14N10E18ABC1 | 35.83954444 | -90.0626 | 236.00 | 3/23/2016 | 9.55 | 122.30 | 112.75 | 92.19 | | 13.10 | 13.02 | | 3.55 | 3.47 |
| Mississippi | 15N08E08DBC2 | 35.93471111 | -90.25729444 | 236.00 | 3/23/2016 | 8.70 | 179.10 | 170.40 | 95.14 | | | 11.97 | | | 3.27 |
| Mississippi | 15N10E34AC1 | 35.88257357 | -90.00314472 | 240.00 | 4/27/2016 | 7.70 | 120.00 | 112.30 | 93.58 | | | 8.55 | | | 0.85 |
| Mississippi | 16N10E28BBD1 | 35.98503611 | -90.03223056 | 238.00 | 3/23/2016 | 7.12 | 138.50 | 131.38 | 94.86 | | | 11.35 | | | 4.23 |
| Mississippi | 16N11E23ADA1 | 35.99645556 | -89.87534167 | 255.00 | 3/23/2016 | 10.21 | 155.40 | 145.19 | 93.43 | | | 12.70 | | | 2.49 |
| | | | | | | | | | | | | | | | |
| | | | | | | Avg. % Saturated: | | | 92.75 | Declines/Wells: | | | 2/4 | 1/4 | 2/10 |
| | | | | | | | | | | Average Change: | | | 0.93 | 0.92 | 1.99 |
| | | | | | | | | | | | | | | | |
| Monroe | 01N03W20BBA | 34.5939694 | -91.354925 | 210 | 3/8/2016 | 80.00 | 153.40 | 73.40 | 47.85 | 79.50 | | 73.73 | (0.50) | | (6.27) |
| Monroe | 01N03W23BAC1 | 344124 | 911743 | 170.05 | 3/8/2016 | 18.00 | 119.93 | 101.93 | 84.99 | 18.00 | 11.00 | 16.00 | 0.00 | (7.00) | (2.00) |
| Monroe | 01N03W24BBB1 | 34.69311389 | -91.28071944 | 185.00 | 3/16/2016 | 27.79 | 137.10 | 109.31 | 79.73 | | 25.63 | 28.63 | | (2.16) | 0.84 |
| Monroe | 01S01W18DCD1 | 343617.76 | 910849.2 | 179.69 | 3/16/2016 | 25.41 | 148.85 | 123.44 | 82.93 | 25.15 | 23.25 | 23.05 | (0.26) | (2.16) | (2.36) |
| Monroe | 01S02W20BBB1 | 343612.7 | 911456.1 | 175.10 | 3/8/2016 | 9.00 | 138.87 | 129.87 | 93.52 | 11.50 | 12.12 | 13.35 | 2.50 | 3.12 | 4.35 |
| Monroe | 02N01W19ADD1 | 344624 | 910814 | 188.02 | 3/15/2016 | 69.00 | 148.91 | 79.91 | 53.66 | 52.00 | 59.00 | 53.00 | (17.00) | (10.00) | (16.00) |
| Monroe | 02N01W19BBA1 | 344645.21 | 910912.46 | 187.53 | 3/16/2016 | 57.62 | 147.01 | 89.39 | 60.81 | 56.00 | 54.91 | 54.27 | (1.62) | (2.71) | (3.35) |
| Monroe | 02S01W01BCD1 | 343305 | 910408 | 176.44 | 3/8/2016 | 18.00 | 145.90 | 127.90 | 87.66 | 20.00 | 20.00 | 19.00 | 2.00 | 2.00 | 1.00 |
| Monroe | 02S02W11DAC1 | 343208.97 | 911100.58 | 155.77 | 3/16/2016 | 5.10 | 122.75 | 117.65 | 95.85 | 9.00 | | 10.16 | 3.90 | | 5.06 |
| Monroe | 01N04W33BBB2 | 343959.52 | 912648.52 | 218.70 | 3/15/2016 | 103.44 | 154.16 | 50.72 | 32.90 | 106.65 | 100.85 | 95.15 | 3.21 | (2.59) | (8.29) |
| Monroe | 01S01W13CDD1 | 343610.94 | 910340.54 | 177.95 | 3/16/2016 | 23.81 | 146.19 | 122.38 | 83.71 | 24.00 | 22.25 | 20.37 | 0.19 | (1.56) | (3.44) |
| Monroe | 01S01W16DB | 343615 | 910632 | 175.85 | 3/8/2016 | 24.00 | 145.37 | 121.37 | 83.49 | 20.00 | | 22.00 | (4.00) | | (2.00) |
| Monroe | 01S04W01BAB1 | 343905.86 | 912316.73 | 216.11 | 3/15/2016 | 74.64 | 154.67 | 80.03 | 51.74 | 76.00 | 74.88 | 68.70 | 1.36 | 0.24 | (5.94) |
| Monroe | 02N03W35BCA1 | 344455 | 911745 | 186.12 | 3/15/2016 | 38.00 | 133.60 | 95.60 | 71.56 | 37.00 | | 34.00 | (1.00) | | (4.00) |
| Monroe | 03N01W06DBA1 | 34.90314966 | -91.13956732 | | 3/18/2016 | 46.96 | | | | | | | | | |
| Monroe | 03N01W20ABA1 | 345201.18 | 910722.83 | 186.71 | 3/18/2016 | 54.77 | 144.94 | 90.17 | 62.21 | 54.58 | | 48.07 | (0.19) | | (6.70) |
| Monroe | 03N02W31ADC1 | 344958.28 | 911447.2 | 185.63 | 3/16/2016 | 40.19 | 137.28 | 97.09 | 70.72 | 40.28 | 38.50 | 38.53 | 0.09 | (1.69) | (1.66) |
| Monroe | 03N03W36AAA1 | 345026.65 | 911547.12 | 177.69 | 3/16/2016 | 19.69 | 124.43 | 104.74 | 84.18 | 21.30 | 21.35 | 38.53 | 1.61 | 1.66 | 18.84 |
| Monroe | 04N02W01BCC1 | 345929 | 911004 | 193.01 | 3/8/2016 | 40.00 | 118.45 | 78.45 | 66.23 | 37.00 | | 39.50 | (3.00) | | (0.50) |
| Monroe | 04N02W05BBB1 | 345957 | 911311 | 188.55 | 3/8/2016 | 18.00 | 95.94 | 77.94 | 81.24 | 18.00 | | 15.00 | 0.00 | | (3.00) |
| Monroe | 04N02W27CDD3 | 345540.22 | 911149.73 | 190.12 | 3/16/2016 | 47.05 | 151.28 | 104.23 | 68.90 | 46.85 | 45.35 | 45.50 | (0.20) | (1.70) | (1.55) |
| Monroe | 04N02W28DDD3 | 34.92640278 | -91.2057444 | 192.00 | 3/16/2016 | 34.54 | 142.10 | 107.56 | 75.69 | | 32.85 | 32.19 | | (1.69) | (2.35) |
| Monroe | 04N02W30BBB1 | 34.94107778 | -91.25686389 | 185.16 | 3/16/2016 | 12.39 | 105.20 | 92.81 | 88.22 | | | 14.53 | | | 2.14 |
| Monroe | 01N02W12CBC1 | 344242.3 | 911031.9 | 185.14 | 3/16/2016 | 45.13 | 147.31 | 102.18 | 69.36 | 44.18 | | 39.21 | (0.95) | | (5.92) |
| | | | | | | | | | | | | | | | |
| | | | | | | Avg. % Saturated: | | | 72.92 | Declines/Wells: | | | 10/20 | 10/14 | 17/23 |
| | | | | | | | | | | Average Change: | | | (0.69) | (1.87) | (1.87) |
| | | | | | | | | | | | | | | | |
| Phillips | 01S01E20DDB | 34.591488 | -91.016229 | 186.02 | 3/22/2016 | 28.00 | 154.59 | 126.59 | 81.89 | 28.00 | 29.00 | 26.00 | 0.00 | 1.00 | (2.00) |
| Phillips | 01S03E02ADD | 34.6373214 | -90.753167 | 196.10 | 3/21/2016 | 19.00 | 129.80 | 110.80 | 85.36 | 17.00 | 20.60 | 16.60 | (2.00) | 1.60 | (2.40) |

# 2016 Alluvial WL Change Percent Saturated
## 2006/2011/2015

| County | Station ID | Latitude | Longitude | USGS LSA | Date | 2016 DTW | Aquifer Thick. | Sat. ft. | % Sat. | 2015 DTW | 2011 DTW | 2006 DTW | 15-16 Change | 11-16 Change | 06-16 Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phillips | 01S03E02CB1 | 34.63583333 | -90.7677778 | | 4/2/2016 | 18.20 | | | | | | | | | |
| Phillips | 01S03E10ABB | 34.6281549 | -90.776223 | 202.95 | 3/22/2016 | 19.00 | 140.80 | 121.80 | 86.51 | 19.50 | 25.00 | 18.00 | 0.50 | 6.00 | (1.00) |
| Phillips | 01S03E26BB1 | 34.5877778 | -90.75305556 | | 4/2/2016 | 37.55 | | | | | | | | | |
| Phillips | 01S02E32BCC | 34.5639886 | -90.924004 | 211.55 | 3/22/2016 | 48.00 | 180.13 | 132.13 | 73.35 | 47.50 | | 37.00 | (0.50) | | (11.00) |
| Phillips | 01S02E09CBB1 | 343718.73 | 905434.06 | 184.28 | 4/6/2016 | 9.78 | 142.79 | 133.01 | 93.15 | 12.10 | 17.00 | 14.29 | 2.32 | 7.22 | 4.51 |
| Phillips | 01S04E05DCD1 | 34.63398865 | -90.69760938 | 185.00 | 3/17/2016 | 52.67 | 146.90 | 94.23 | 64.15 | 49.10 | 51.60 | 48.91 | (3.57) | (1.07) | (3.76) |
| Phillips | 02S04E27AAC1 | 342931.57 | 904001.09 | 176.87 | 4/5/2016 | 8.13 | 85.78 | 77.65 | 90.52 | 7.90 | 9.80 | 8.59 | (0.23) | 1.67 | 0.46 |
| Phillips | 03S03E02DD1 | 34.45240556 | -90.75074167 | 175.00 | 4/2/2016 | 22.92 | 120.60 | 97.68 | 81.00 | | 21.70 | | | (1.22) | |
| Phillips | 03S03E04DAA1 | 342734.52 | 904709.93 | 164.90 | 4/5/2016 | 21.06 | 120.17 | 99.11 | 82.47 | 21.50 | 20.40 | 19.29 | 0.44 | (0.66) | (1.77) |
| Phillips | 03S04E02CAA1 | 342732 | 903918 | 178.77 | 4/5/2016 | 9.12 | 121.81 | 112.69 | 92.51 | 13.10 | 15.00 | 16.16 | 3.98 | 5.88 | 7.04 |
| Phillips | 02S01E23CA1 | 34.50113889 | -90.97848333 | | 4/2/2016 | 19.50 | | | | | 19.70 | | | 0.20 | |
| Phillips | 02S01E28CCB1 | 342916.37 | 910058.18 | 174.74 | 4/5/2016 | 17.46 | 143.50 | 126.04 | 87.83 | 18.75 | 18.10 | 17.95 | 1.29 | 0.64 | 0.49 |
| Phillips | 02S03E15ACD1 | 343109.96 | 904621.48 | 201.64 | 4/19/2016 | 11.73 | 150.65 | 138.92 | 92.21 | 12.91 | | 13.78 | 1.18 | | 2.05 |
| Phillips | 02S02E29DDD | 34.4837119 | -90.912337 | 182.91 | 3/21/2016 | 25.00 | 150.65 | 125.65 | 83.41 | 25.50 | 29.00 | 27.60 | 0.50 | 4.00 | 2.60 |
| Phillips | 02S02E33ACC | 34.4734343 | -90.903447 | 184.51 | 3/21/2016 | 23.00 | 151.42 | 128.42 | 84.81 | 23.50 | 30.00 | 26.00 | 0.50 | 7.00 | 3.00 |
| Phillips | 02S03E34BCD | 34.4745459 | -90.7815 | 173.79 | 3/23/2016 | 21.00 | 122.44 | 101.44 | 82.85 | 21.00 | 19.00 | 18.00 | 0.00 | (2.00) | (3.00) |
| Phillips | 04S01E01AAD | 34.3773243 | -90.950113 | 159.88 | 3/22/2016 | 16.00 | 121.49 | 105.49 | 86.83 | 15.00 | 15.00 | 22.00 | (1.00) | (1.00) | 6.00 |
| Phillips | 04S01E23CCA | 34.3253611 | -90.891283 | 159.28 | 4/5/2016 | 13.58 | 117.24 | 103.66 | 88.42 | 13.05 | 12.72 | 13.40 | (0.53) | (0.86) | (0.18) |
| Phillips | 04S01E29CDC | 34.3123245 | -91.030114 | 149.61 | 4/4/2016 | 7.00 | 113.11 | 106.11 | 93.81 | 5.50 | 9.00 | | (1.50) | 2.00 | |
| Phillips | 04S01E14CDD | 34.3373246 | -90.977057 | 155.58 | 3/22/2016 | 13.00 | 117.42 | 104.42 | 88.93 | 15.00 | | 15.00 | 2.00 | | 2.00 |
| Phillips | 04S02E01DBB | 34.372325 | -90.848166 | 159.81 | 3/21/2016 | 15.00 | 118.73 | 103.73 | 87.37 | 16.20 | | 15.60 | 1.20 | | 0.60 |
| | | | | | | | | | | | | | | | |
| | | | | | | Avg. % Saturated: | | | 85.37 | Declines/Wells: | | | 7/19 | 6/17 | 8/18 |
| | | | | | | | | | | Average Change: | | | 0.24 | 1.79 | 0.20 |
| | | | | | | | | | | | | | | | |
| Poinsett | 10N01E02AAA | 35.5348033 | -90.488452 | 218.34 | 4/6/2016 | 101.00 | 101.31 | 0.31 | 0.30 | 102.00 | | 98.00 | 1.00 | | (3.00) |
| Poinsett | 10N01E14CC1 | 352909.77 | 905813.38 | 223.95 | 3/24/2016 | 109.99 | 143.14 | 33.15 | 23.16 | 100.70 | 96.27 | 92.41 | (9.29) | (13.72) | (17.58) |
| Poinsett | 10N01E33ACB | 35.4628604 | -90.992064 | 220.87 | 4/6/2016 | 90.00 | 143.32 | 53.32 | 37.20 | 90.00 | 82.00 | 77.00 | 0.00 | (8.00) | (13.00) |
| Poinsett | 10N01E32CBB | 35.49924.96 | -91.014842 | 222.00 | 4/6/2016 | 80.00 | 145.00 | 65.00 | 44.83 | 80.00 | | 74.00 | 0.00 | | (6.00) |
| Poinsett | 10N02E13BCC1 | 35.49681111 | -90.84063611 | 237.00 | 5/4/2016 | 110.63 | 143.10 | 32.47 | 22.69 | | | 103.24 | | | (7.39) |
| Poinsett | 10N02E15CAA | 35.4945264 | -90.869283 | 235.17 | 4/6/2016 | 115.00 | 146.91 | 31.91 | 21.72 | 119.00 | 107.00 | 104.50 | 4.00 | (8.00) | (10.50) |
| Poinsett | 10N02E20BAB | 35.48500822 | -90.905117 | 231.89 | 4/5/2016 | 112.00 | 148.19 | 36.19 | 24.42 | 110.00 | 107.50 | | (2.00) | (4.50) | |
| Poinsett | 10N02E34BBB1 | 352725.8 | 905231.3 | 235.17 | 1/27/2016 | 108.09 | 149.59 | 41.50 | 27.74 | 107.59 | 103.55 | | (0.50) | (4.54) | |
| Poinsett | 10N03E13BCB | 35.499525 | -90.731222 | 272.11 | 4/6/2016 | 146.50 | | | | 147.00 | 141.50 | 142.00 | 0.50 | (5.00) | (4.50) |
| Poinsett | 10N03E14DAB1 | 352947.21 | 904404.93 | 240.26 | 3/24/2016 | 123.90 | 133.24 | 9.34 | 7.01 | 123.10 | 119.10 | 118.63 | (0.80) | (4.80) | (5.27) |
| Poinsett | 10N03E19BCB | 35.4848004 | -90.818726 | 238.02 | 4/6/2016 | 110.00 | 143.26 | 33.26 | 23.22 | 107.00 | 102.00 | 99.50 | (3.00) | (8.00) | (10.50) |
| Poinsett | 10N03E35CDD1 | 352656.17 | 904435.97 | 251.87 | 4/29/2016 | 129.62 | | | | 130.71 | 126.10 | 124.43 | 1.09 | (3.52) | (5.19) |
| Poinsett | 10N04E35BBA | 35.4625829 | -90.642054 | 210.79 | 4/6/2016 | 16.00 | 112.48 | 96.48 | 85.77 | 14.00 | | 21.00 | (2.00) | | 5.00 |
| Poinsett | 10N06E11AAA1 | 35.51258212 | -90.41704643 | 212.00 | 4/23/2016 | 13.12 | 97.90 | 84.78 | 86.60 | | 13.40 | | | 0.28 | |
| Poinsett | 10N07E28CBB | 35.4592501 | -90.357878 | 220.67 | 4/5/2016 | 30.00 | 110.59 | 80.59 | 72.87 | 30.00 | 30.50 | 28.50 | 0.00 | 0.50 | (1.50) |
| Poinsett | 11N04E13DDA | 35.5806359 | -90.60872 | 210.30 | 4/5/2016 | 15.00 | 67.97 | 52.97 | 77.93 | 15.00 | 16.00 | 15.00 | 0.00 | 1.00 | 0.00 |
| Poinsett | 11N01E17DDC1 | 35.5770247 | -91.004287 | 230.22 | 4/5/2016 | 87.00 | 142.52 | 55.52 | 38.96 | 87.00 | 82.10 | 78.61 | 0.00 | (4.90) | (8.39) |
| Poinsett | 11N01E26AA1 | 353340.33 | 905653.32 | 231.27 | 4/4/2016 | 104.27 | 140.02 | 35.75 | 25.53 | 97.87 | 99.50 | 94.72 | (6.40) | (4.77) | (9.55) |
| Poinsett | 11N01E34AAA | 35.5489697 | -90.966508 | 229.92 | 4/6/2016 | 95.00 | 142.48 | 47.48 | 33.32 | 94.00 | | 88.50 | (1.00) | | (6.50) |

# 2016 Alluvial WL Change Percent Saturated
## 2006/2011/2015

| County | Station ID | Latitude | Longitude | USGS LSA | Date | 2016 DTW | Aquifer Thick. | Sat. ft. | % Sat. | 2015 DTW | 2011 DTW | 2006 DTW | 15-16 Change | 11-16 Change | 06-16 Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Poinsett | 11N02E26AAB1 | 353350.31 | 905034.19 | 239.11 | 5/4/2016 | 118.97 | 140.25 | 21.28 | 15.17 | 135.00 | 99.50 | 107.55 | 16.03 | (19.47) | (11.42) |
| Poinsett | 11N02E30BBB | 35.5645249 | -90.927896 | 240.03 | 4/6/2016 | 110.00 | 144.81 | 34.81 | 24.04 | 111.00 | 108.50 | 102.50 | 1.00 | (1.50) | (7.50) |
| Poinsett | 11N03E10DDA1 | 353545.69 | 904456.54 | 243.00 | 3/24/2016 | 111.53 | | | | 111.50 | 108.00 | 104.78 | (0.03) | (3.53) | (6.75) |
| Poinsett | 11N03E17AAB | 35.5931354 | -90.787336 | 236.35 | 4/6/2016 | 138.00 | | | | 140.00 | | | 2.00 | | |
| Poinsett | 11N03E18BAB1 | 353537.76 | 904852.42 | 243.86 | 5/4/2016 | 116.09 | | | | 117.50 | | 105.34 | 1.41 | | (10.75) |
| Poinsett | 11N07E22ADD | 35.5636921 | -90.32287684 | 218.00 | 4/13/2016 | 25.80 | 115.90 | 90.10 | 77.74 | | 25.50 | | | (0.30) | |
| Poinsett | 11N05E26BDB | 35.555081 | -90.537051 | 213.68 | 4/5/2016 | 13.00 | 91.95 | 78.95 | 85.86 | 13.00 | 12.75 | 12.00 | 0.00 | (0.25) | (1.00) |
| Poinsett | 11N07E18CAB1 | 353435 | 902320 | 212.14 | 5/4/2016 | 12.00 | 102.40 | 90.40 | 88.28 | 13.80 | 13.85 | 15.37 | 1.80 | 1.85 | 3.37 |
| Poinsett | 12N01E07CDA1 | 354053.69 | 910141.25 | 240.22 | 3/23/2016 | 55.39 | 123.17 | 67.78 | 55.03 | 57.08 | 56.15 | 53.97 | 1.69 | 0.76 | (1.42) |
| Poinsett | 12N01E22DAB | 35.6561897 | -90.969286 | 235.37 | 4/5/2016 | 80.00 | 117.00 | 37.00 | 31.63 | 80.00 | 78.00 | 74.00 | 0.00 | (2.00) | (6.00) |
| Poinsett | 12N02E25DCC | 35.6389679 | -90.829004 | 245.24 | 4/6/2016 | 129.00 | | | | 126.00 | 126.00 | 112.00 | (3.00) | (3.00) | (17.00) |
| Poinsett | 12N02E34CCC | 35.6234126 | -90.875117 | 243.67 | 4/6/2016 | 124.00 | | | | 124.00 | | 112.50 | 0.00 | | (11.50) |
| Poinsett | 12N03E01CBD | 35.6984111 | -90.724835 | 247.05 | 4/5/2016 | 100.00 | | | | 100.00 | 97.00 | 93.00 | 0.00 | (3.00) | (7.00) |
| Poinsett | 12N04E08CDA | 35.6814671 | -90.686778 | 260.37 | 4/5/2016 | 96.00 | | | | 96.00 | | 88.00 | 0.00 | | (8.00) |
| Poinsett | 12N05E16ABA | 35.6775783 | -90.559274 | 218.24 | 4/6/2016 | 15.00 | 86.23 | 71.23 | 82.61 | 14.00 | 13.00 | 12.00 | (1.00) | (2.00) | (3.00) |
| Poinsett | 12N05E34ABA1 | 353805.38 | 903230.45 | 215.00 | 5/4/2016 | 16.62 | 84.50 | 67.88 | 80.33 | 11.20 | | 10.65 | (5.42) | | (5.97) |
| Poinsett | 12N03E35AD | 35.6292459 | -90.731501 | 246.78 | 4/5/2016 | 103.00 | | | | 106.00 | 106.50 | 103.00 | 3.00 | 3.50 | 0.00 |
| Poinsett | 12N07E04BAA1 | 354201.95 | 902059.69 | 221.13 | 5/4/2016 | 1.65 | 112.80 | 111.15 | 98.54 | 5.84 | 4.86 | 6.93 | 4.19 | 3.21 | 5.28 |
| Poinsett | 11N01E17DDD1 | 353436.83 | 910013.21 | 230.31 | 5/4/2016 | 85.08 | 139.56 | 54.48 | 39.04 | 85.82 | 82.10 | 78.61 | 0.74 | (2.98) | (6.47) |
| Poinsett | 12N03E04DAD1 | 354158.01 | 904600.16 | 250.26 | 4/5/2016 | 111.00 | | | | 107.00 | | 103.52 | (4.00) | | (7.48) |
| | | | | | | | | | | | | | | | |
| | | | | | | Avg. % Saturated: | | | 47.56 | Declines/Wells: | | | 13/36 | 21/28 | 29/34 |
| | | | | | | | | | | Average Change: | | | 0.00 | (3.45) | (6.07) |
| | | | | | | | | | | | | | | | |
| Prairie | 01N06W05CCB1 | 344352.97 | 914049.08 | 215.62 | 3/3/2016 | 119.05 | 157.04 | 37.99 | 24.19 | 119.07 | 97.90 | 117.80 | 0.02 | (21.15) | (1.25) |
| Prairie | 01N06W26CDD1 | 344014.88 | 913707.61 | 215.29 | 3/16/2016 | 103.62 | 142.97 | 39.35 | 27.52 | 110.30 | 106.40 | 63.78 | 6.68 | 2.78 | (39.84) |
| Prairie | 01S04W28BDB1 | 343522.68 | 912629.73 | 202.03 | 3/15/2016 | 98.23 | 137.33 | 39.10 | 28.47 | 97.40 | 97.90 | 97.28 | (0.83) | (0.33) | (0.95) |
| Prairie | 01S05W14BBC1 | 343721.96 | 913108.76 | 215.35 | 3/16/2016 | 109.20 | 150.17 | 40.97 | 27.28 | 108.80 | | 108.15 | (0.40) | | (1.05) |
| Prairie | 01S05W31DDA | 34.5713389 | -91.575469 | 205.58 | 3/15/2016 | 100.20 | 137.31 | 37.11 | 27.03 | 96.80 | 112.75 | 103.60 | (3.40) | 12.55 | 3.40 |
| Prairie | 01N06W29DDD | 34.6715389 | -91.664294 | 224.11 | 3/16/2016 | 120.42 | 151.40 | 30.98 | 20.46 | 117.50 | 118.55 | 116.55 | (2.92) | (1.87) | (3.87) |
| Prairie | 01S06W12BAB1 | 343826 | 913613 | 227.92 | 3/16/2016 | 117.84 | 156.88 | 39.04 | 24.89 | 117.84 | 119.00 | 119.36 | 0.00 | 1.16 | 1.52 |
| Prairie | 02N04W02BCB1 | 34.82119722 | -91.40516944 | 188.00 | 3/15/2016 | 15.81 | 114.90 | 99.09 | 86.24 | | | 20.27 | | | 4.46 |
| Prairie | 02N04W32CCB1 | 344436.43 | 912737.79 | 217.91 | 3/15/2016 | 83.61 | 145.40 | 61.79 | 42.49 | 83.30 | 83.45 | 84.72 | (0.31) | (0.16) | 1.11 |
| Prairie | 02N05W29DDB2 | 344545.22 | 913308.75 | 216.21 | 3/8/2016 | 122.31 | 139.29 | 16.98 | 12.19 | 125.71 | 121.35 | 118.84 | 3.40 | (0.96) | (3.47) |
| Prairie | 02N05W32AA1 | 34.75928889 | -91.55125833 | 225.00 | 3/26/2016 | 148.80 | 147.80 | | | | | 129.90 | | | (18.90) |
| Prairie | 02N06W17ABB1 | 344809.48 | 913959.44 | 231.73 | 3/3/2016 | 125.95 | 144.76 | 18.81 | 12.99 | 133.79 | 124.70 | 124.26 | 7.84 | (1.25) | (1.69) |
| Prairie | 03S05W03BDD2 | 34.9122389 | -91.520931 | 206.50 | 3/8/2016 | 64.14 | 113.22 | 49.08 | 43.35 | 66.30 | 64.10 | 67.70 | 2.16 | (0.04) | 3.56 |
| Prairie | 04S04W07ADC | 34.9806417 | -91.459186 | 195.01 | 3/15/2016 | 17.74 | 99.21 | 81.47 | 82.12 | 24.80 | 24.80 | 26.73 | 7.06 | 7.06 | 8.99 |
| Prairie | 04N05W07CDC1 | 345842.62 | 913440.92 | 204.13 | 3/8/2016 | 78.54 | 108.97 | 30.43 | 27.92 | 77.80 | 77.60 | 76.54 | (0.74) | (0.94) | (2.00) |
| Prairie | 04N05W31DDC1 | 345513.66 | 913405.83 | 210.01 | 3/8/2016 | 80.06 | 115.94 | 35.88 | 30.95 | 79.38 | 78.38 | | (0.68) | (1.68) | |
| Prairie | 04N06W05CCC1 | 345933.76 | 914017.96 | 201.35 | 3/8/2016 | 62.90 | 113.18 | 50.28 | 44.43 | 61.82 | 61.20 | 78.35 | (1.08) | (1.70) | 15.45 |
| Prairie | 04N07W03DCB1 | 345942.1 | 914412.48 | 230.31 | 3/8/2016 | 89.32 | 146.78 | 57.46 | 39.15 | 89.46 | 86.20 | 87.33 | 0.14 | (3.12) | (1.99) |
| Prairie | 04N07W20DDB1 | 34.95256389 | -91.76868611 | 255.00 | 3/8/2016 | 104.16 | 174.50 | 70.34 | 40.31 | 105.02 | 102.77 | 104.93 | 0.86 | (1.39) | 0.77 |
| Prairie | 04N07W28BBA1 | 345700.53 | 914544.88 | 262.89 | 3/8/2016 | 98.65 | 182.73 | 84.08 | 46.01 | 98.30 | 97.60 | 95.77 | (0.35) | (1.05) | (2.88) |

# 2016 Alluvial WL Change Percent Saturated
## 2006/2011/2015

| County | Station ID | Latitude | Longitude | USGS LSA | Date | 2016 DTW | Aquifer Thick. | Sat. ft. | % Sat. | 2015 DTW | 2011 DTW | 2006 DTW | 15-16 Change | 11-16 Change | 06-16 Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Avg. % Saturated: | | | 36.21 | Declines/Wells: | | | 9/18 | 13/17 | 11/19 |
| | | | | | | | | | | Average Change: | | | 0.97 | (0.71) | (2.03) |
| Pulaski | 01S10W29CC1 | 34.59382778 | -92.11879444 | 239.00 | 2/29/2016 | 11.54 | 107.00 | 95.46 | 89.21 | | | 18.02 | | | 6.48 |
| Pulaski | 02N10W05BCC1 | 34.82775 | -92.09271111 | 239.00 | 3/18/2016 | 19.05 | 131.30 | 112.25 | 85.49 | | | | | | |
| Pulaski | 02S10W14DC1 | 34.53464167 | -92.059375 | 225.00 | 2/29/2016 | 24.99 | 109.20 | 84.21 | 77.12 | 23.70 | | 24.90 | (1.29) | | (0.09) |
| Pulaski | 02S11W23BCB1 | 34.53091667 | -92.173375 | 236.76 | 3/18/2016 | 21.80 | 106.70 | 84.90 | 79.57 | | | | | | |
| | | | | | | Avg. % Saturated: | | | 82.85 | Declines/Wells: | | | | | 1/2 |
| | | | | | | | | | | Average Change: | | | | | 3.20 |
| Randolph | 18N02E22DCD1 | 361045.76 | 905104.7 | 271.75 | 3/16/2016 | 42.19 | 150.40 | 108.21 | 71.95 | 42.82 | 40.60 | 37.47 | 0.63 | (1.59) | (4.72) |
| Randolph | 20N02E01ADD1 | 362424.21 | 904811.39 | 279.99 | 3/16/2016 | 9.65 | 138.39 | 128.74 | 93.03 | 17.06 | 15.60 | 13.93 | 7.41 | 5.95 | 4.28 |
| Randolph | 20N03E28BA1 | 362113.53 | 904537.97 | 278.97 | 3/16/2016 | 10.75 | 137.24 | 126.49 | 92.17 | 13.17 | 13.50 | 12.86 | 2.42 | 2.75 | 2.11 |
| Randolph | 18N01E34AAC1 | 360942.69 | 905729.13 | 263.45 | 3/16/2016 | 18.84 | 137.75 | 118.91 | 86.32 | 20.50 | 18.00 | 18.18 | 1.66 | (0.84) | (0.66) |
| | | | | | | Avg. % Saturated: | | | 85.87 | Declines/Wells: | | | 0/4 | 2/4 | 2/4 |
| | | | | | | | | | | Average Change: | | | 3.03 | 1.57 | 0.25 |
| St. Francis | 04N01W28CDD1 | 345535.26 | 910633.55 | 209.22 | 4/28/2016 | 75.29 | 158.46 | 83.17 | 52.49 | 75.17 | 73.65 | 71.42 | (0.12) | (1.64) | (3.87) |
| St. Francis | 04N02E19BBB1 | 345701 | 905633 | 208.73 | 4/28/2016 | 66.84 | 153.53 | 86.69 | 56.46 | 65.45 | 62.62 | 60.16 | (1.39) | (4.22) | (6.68) |
| St. Francis | 04N03E21DAD1 | 34.93973611 | -90.78203611 | 236.00 | 4/28/2016 | 64.82 | 182.00 | 117.18 | 64.38 | | | 58.14 | | | (6.68) |
| St. Francis | 05N01E15BCB1 | 350302.57 | 905942.41 | 208.76 | 4/28/2016 | 72.66 | 142.07 | 69.41 | 48.86 | 72.00 | 68.70 | 67.19 | (0.66) | (3.96) | (5.47) |
| St. Francis | 05N01E27BBA1 | 350135.73 | 905928.78 | 210.07 | 4/28/2016 | 75.26 | 144.55 | 69.29 | 47.93 | 74.60 | 71.00 | 66.93 | (0.66) | (4.26) | (8.33) |
| St. Francis | 05N02E20ADC1 | 350156.9 | 905437.16 | 191.31 | 4/28/2016 | 60.83 | 131.91 | 71.08 | 53.89 | 62.03 | 58.05 | 54.79 | 1.20 | (2.78) | (6.04) |
| St. Francis | 05N05E19DCA1 | 350127.57 | 903630.35 | 192.65 | 5/5/2016 | 30.98 | 133.55 | 102.57 | 76.80 | 33.30 | 32.40 | 32.77 | 2.32 | 1.42 | 1.79 |
| St. Francis | 05N06E34CAB1 | 350025.57 | 902656.87 | 195.70 | 3/16/2016 | 28.90 | 135.43 | 106.53 | 78.66 | 26.15 | 26.15 | 27.69 | (2.75) | (2.75) | (1.21) |
| St. Francis | 06N01E33ACA2 | 350552.33 | 905941.6 | 208.86 | 3/15/2016 | 71.00 | 140.28 | 69.28 | 49.39 | 74.30 | 61.75 | 67.14 | 3.30 | (9.25) | (3.86) |
| St. Francis | 06N02E13DCA1 | 350812.64 | 905002.71 | 219.19 | 4/29/2016 | 81.06 | 155.37 | 74.31 | 47.83 | 81.00 | 81.30 | 73.85 | (0.06) | 0.24 | (7.21) |
| St. Francis | 06N02E15BDD1 | 350841.91 | 905247.31 | 205.15 | 3/15/2016 | 43.70 | 139.94 | 96.24 | 68.77 | 65.80 | 63.70 | 60.15 | 22.10 | 20.00 | 16.45 |
| St. Francis | 06N05E22ACC1 | 35.12315556 | -90.54783611 | 200.00 | 5/5/2016 | 39.46 | 137.50 | 98.04 | 71.30 | | | 40.63 | | | 1.17 |
| St. Francis | 06N02E24AAA1 | 35.13199722 | -90.83400556 | 232.00 | 4/29/2016 | 77.94 | 170.10 | 92.16 | 54.18 | | | 71.46 | | | (6.48) |
| St. Francis | 06N06E20ABB2 | 350747.06 | 902841.2 | 200.59 | 5/5/2016 | 36.64 | 134.28 | 97.64 | 72.71 | 37.10 | | 36.75 | 0.46 | | 0.11 |
| | | | | | | Avg. % Saturated: | | | 60.26 | Declines/Wells: | | | 6/11 | 7/10 | 10/14 |
| | | | | | | | | | | Average Change: | | | 2.16 | (0.72) | (2.59) |
| White | 05N08W16BD1 | 350346 | 915151 | 230.00 | 5/14/2016 | 28.98 | 145.10 | 116.12 | 80.03 | | 31.10 | 30.50 | | 2.12 | 1.52 |
| White | 06N06W04BAA | 35.1797806 | -91.652753 | 220.08 | 4/4/2016 | 15.17 | 127.70 | 112.53 | 88.12 | 11.40 | 22.00 | 35.47 | (3.77) | 6.83 | 20.30 |
| White | 06N06W34AAB1 | 35.10654722 | -91.63154167 | 213.00 | 5/5/2016 | 59.08 | 120.60 | 61.52 | 51.01 | | 61.20 | 60.63 | | 2.12 | 1.55 |
| White | 06N08W26DDB1 | 350639.72 | 914931.17 | 227.30 | 4/29/2016 | 9.24 | 138.96 | 129.72 | 93.35 | 9.67 | 4.23 | 14.47 | 0.43 | (5.01) | 5.23 |
| | | | | | | Avg. % Saturated: | | | 78.13 | Declines/Wells: | | | 1/2 | 1/4 | 0/4 |
| | | | | | | | | | | Average Change: | | | (1.67) | 1.52 | 7.15 |

# 2016 Alluvial WL Change Percent Saturated
## 2006/2011/2015

| County | Station ID | Latitude | Longitude | USGS LSA | Date | 2016 DTW | Aquifer Thick. | Sat. ft. | % Sat. | 2015 DTW | 2011 DTW | 2006 DTW | 15-16 Change | 11-16 Change | 06-16 Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Woodruff | 04N03W03AB1 | 350020.93 | 911819.87 | 178.77 | 4/5/2016 | 9.40 | 82.05 | 72.65 | 88.54 | 11.66 | 12.95 | 14.61 | 2.26 | 3.55 | 5.21 |
| Woodruff | 05N03W25DDB | 35.0259249 | -91.258737 | 190.52 | 5/13/2016 | 13.00 | 92.94 | 79.94 | 86.01 | 12.50 | | | (0.50) | | |
| Woodruff | 06N01W11AAB1 | 350944 | 910354 | 215.09 | 5/14/2016 | 72.00 | 137.58 | 65.58 | 47.67 | 67.27 | 64.17 | 61.30 | (4.73) | (7.83) | (10.70) |
| Woodruff | 06N01W27BCC | 35.11138889 | -91.09555556 | | 4/6/2016 | 56.80 | | | | | | | | | |
| Woodruff | 06N01W28DAD | 35.10805556 | -91.09691667 | | 4/6/2016 | 58.64 | | | | | | | | | |
| Woodruff | 06N03W12BAA | 350955 | 911607 | 185.00 | 4/7/2016 | 5.57 | 92.30 | 86.73 | 93.97 | | 6.71 | 6.05 | | 1.14 | 0.48 |
| Woodruff | 07N01W04ACB1 | 351541 | 910626 | 212.27 | 4/5/2016 | 69.10 | 127.56 | 58.46 | 45.83 | 67.00 | 64.00 | 60.90 | (2.10) | (5.10) | (8.20) |
| Woodruff | 08N01W06DDD1 | 352028 | 910747 | 218.04 | 4/5/2016 | 46.36 | 135.40 | 89.04 | 65.76 | 43.11 | 48.20 | 44.57 | (3.25) | 1.84 | (1.79) |
| Woodruff | 08N03W31AAD1 | 351655 | 912028 | 211.58 | 4/4/2016 | 18.95 | 119.99 | 101.04 | 84.21 | 20.87 | 18.95 | 21.95 | 1.92 | 0.00 | 3.00 |
| Woodruff | 09N03W28ABB1 | 352310 | 911845 | 220.18 | 5/13/2016 | 24.00 | 131.96 | 107.96 | 81.81 | 22.70 | 15.50 | | (1.30) | (8.50) | |
| Woodruff | 05N01W13CDC1 | 350244 | 910331 | 210.07 | 4/7/2016 | 80.60 | 140.48 | 59.88 | 42.63 | 79.50 | 78.26 | 74.60 | (1.10) | (2.34) | (6.00) |
| Woodruff | 05N02W20DCB1 | 350207.8 | 911356.19 | 189.37 | 4/5/2016 | 15.73 | 96.99 | 81.26 | 83.78 | 14.70 | 14.10 | 15.25 | (1.03) | (1.63) | (0.48) |
| Woodruff | 07N03W31BBA1 | 351152 | 912103 | 196.88 | 5/13/2016 | 10.00 | 102.86 | 92.86 | 90.28 | 9.50 | | 11.90 | (0.50) | | 1.90 |
| Woodruff | 09N03W32ACA1 | 352205 | 911936 | 215.12 | 5/13/2016 | 22.00 | 125.78 | 103.78 | 82.51 | 22.50 | | 21.60 | 0.50 | | (0.40) |
| | | | | | | | | | | | | | | | |
| | | | | | | Avg. % Saturated: | | | 74.42 | Declines/Wells: | | | 8/11 | 5/9 | 6/10 |
| | | | | | | | | | | Average Change: | | | (0.89) | (2.10) | (1.70) |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | Declines/Wells: | | | 133/227 | 173/308 | 250/394 |
| | | | | | | | | | | Total Percent Decline: | | | 58.59 | 56.17 | 63.45 |
| | | | | | | | | | | Total Average Change: | | | 0.52 | (-0.17) | (-1.70) |

# Appendix B

## Sparta / Memphis Aquifer Water Level Monitoring Data

2016 Sparta WL Change
2006/2011/2015

| County | Station | Latitude | Longitude | LSA | Date | 2016 | 2015 | 2011 | 2006 | 15-16 WL | 11-16 WL | 06-16 WL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Measured | DTW | DTW | DTW | DTW | Change | Change | Change |
| Arkansas | 02S04W06CDB1 | 343311.54 | 912849.29 | 212.00 | 3/15/2016 | 160.45 | 154.59 | 173.13 | 160.20 | (5.86) | 12.68 | (0.25) |
| Arkansas | 02S04W23DAA1 | 343044.22 | 912354.53 | 208.00 | 3/17/2016 | 144.95 | 137.45 | 143.67 | 148.50 | (7.50) | (1.28) | 3.55 |
| Arkansas | 02S05W16CBC1 | 343143 | 913318 | 216.00 | 3/17/2016 | 174.08 | 165.86 | 177.38 | 173.80 | (8.22) | 3.30 | (0.28) |
| Arkansas | 02S05W34BDA1 | 342924.58 | 913148.02 | 216.00 | 3/15/2016 | 179.94 | 179.10 | 186.45 | 178.20 | (0.84) | 6.51 | (1.74) |
| Arkansas | 02S05W35AAB1 | 342929.98 | 913035.31 | 216.00 | 3/15/2016 | 174.56 | 182.23 | 175.31 | 173.40 | 7.67 | 0.75 | (1.16) |
| Arkansas | 03S04W02CCB1 | 342747.58 | 912458.04 | 202.00 | 3/25/2016 | 152.58 | 145.78 | 151.95 | 151.50 | (6.80) | (0.63) | (1.08) |
| Arkansas | 03S05W13BDC1 | 342631.15 | 913004.57 | 210.00 | 3/16/2016 | 168.83 | 170.81 | 173.60 | | 1.98 | 4.77 | |
| Arkansas | 03S05W15CBB1 | 342633.21 | 913229.33 | 206.00 | 3/16/2016 | 173.88 | | 176.74 | 171.60 | | 2.86 | (2.28) |
| Arkansas | 03S05W18CAB1 | 342633 | 913523 | 196.00 | 3/15/2016 | 163.08 | 157.06 | 161.90 | 163.40 | (6.02) | (1.18) | 0.32 |
| Arkansas | 03S06W21ACB1 | 342554 | 913927 | 200.00 | 3/15/2016 | 158.51 | 150.90 | 157.81 | 159.95 | (7.61) | (0.70) | 1.44 |
| Arkansas | 03S06W30BBD1 | 342515.54 | 914216.15 | 191.00 | 3/15/2016 | 151.34 | 141.59 | 159.30 | 162.00 | (9.75) | 7.96 | 10.66 |
| Arkansas | 04S04W11BCC1 | 342156.96 | 912501.52 | 198.00 | 3/25/2016 | 150.12 | 147.97 | 161.55 | 152.40 | (2.15) | 11.43 | 2.28 |
| Arkansas | 04S04W22DAA1 | 342006.89 | 912515.15 | 195.00 | 3/25/2016 | 161.38 | | 153.66 | 154.50 | | (7.72) | (6.88) |
| Arkansas | 04S05W01BAA1 | 342322.23 | 912956.46 | 196.00 | 3/16/2016 | 187.36 | 167.96 | 160.44 | 173.50 | (19.40) | (26.92) | (13.86) |
| Arkansas | 04S05W15AAA1 | 342132.16 | 913133.29 | 201.00 | 3/16/2016 | 165.00 | 159.49 | 164.44 | 165.85 | (5.51) | (0.56) | 0.85 |
| Arkansas | 04S05W36DCC1 | 341752.00 | 913003.63 | 196.00 | 3/25/2016 | 158.14 | 154.00 | 158.97 | 159.95 | (4.14) | 0.83 | 1.81 |
| Arkansas | 05S04W26ACA1 | 341358 | 912435 | 188.00 | 3/25/2016 | 132.00 | 132.01 | 136.58 | 139.00 | 0.01 | 4.58 | 7.00 |
| Arkansas | 05S05W26CDD1 | 341324 | 913119 | 188.00 | 3/25/2016 | 34.57 | 34.80 | 35.99 | 37.45 | 0.23 | 1.42 | 2.88 |
| Arkansas | 05S05W36DAA | 341247 | 912946 | 180.00 | 3/25/2016 | 143.53 | 137.24 | 141.61 | 142.00 | (6.29) | (1.92) | (1.53) |
| Arkansas | 06S02W22CDB1 | 340904 | 911331.06 | 186.00 | 3/30/2016 | 110.85 | 107.70 | 108.18 | 110.00 | (3.15) | (2.67) | (0.85) |
| Arkansas | 06S03W27BAA1 | 340859.22 | 912008.98 | 181.00 | 3/29/2016 | 116.40 | 115.31 | 117.34 | 118.70 | (1.09) | 0.94 | 2.30 |
| Arkansas | 07S02W28ABA1 | 340339.67 | 911411.01 | 181.00 | 3/30/2016 | 102.37 | 104.12 | 102.13 | 104.90 | 1.75 | (0.24) | 2.53 |
| Arkansas | 07S03W06ABC1 | 340701.89 | 912247.68 | 185.00 | 3/29/2016 | 135.29 | 126.09 | 129.53 | 126.30 | (9.20) | (5.76) | (8.99) |
| Arkansas | 08S02W09BCC1 | 340031.06 | 911447.66 | 174.00 | 3/30/2016 | 98.73 | 99.39 | 97.79 | 100.20 | 0.66 | (0.94) | 1.47 |
| Arkansas | 03S03W18CCC2 | 342553 | 912251 | 196.00 | 3/25/2016 | 141.68 | | 145.65 | 144.20 | | 3.97 | 2.52 |
| Arkansas | 03S04W26CDA1 | 342416 | 912437 | 203.00 | 3/25/2016 | 140.24 | 134.69 | 142.52 | | (5.55) | 2.28 | |
| Arkansas | 03S05W28DAB1 | 342447 | 913238 | 204.00 | 3/16/2016 | 167.05 | 162.80 | 181.68 | | (4.25) | 14.63 | |
| Arkansas | 04S01W04CBD1 | 342226 | 910758 | 196.00 | 3/30/2016 | 113.55 | 109.49 | 110.13 | 110.81 | (4.06) | (3.42) | (2.74) |
| Arkansas | 04S01W28BAA1 | 341929 | 910739 | 190.00 | 3/30/2016 | 105.73 | 102.35 | 102.71 | 104.30 | (3.38) | (3.02) | (1.43) |
| Arkansas | 04S04W19CBB1 | 342005 | 912926 | 195.00 | 3/16/2016 | 162.83 | 151.94 | 162.49 | | (10.89) | (0.34) | |
| Arkansas | 05S01W17BAA1 | 341550 | 910742 | 176.00 | 3/30/2016 | 91.33 | 90.26 | 90.08 | 91.80 | (1.07) | (1.25) | 0.47 |
| Arkansas | 06S02W06ABB1 | 341228 | 911622 | 181.00 | 3/29/2016 | 118.93 | 114.26 | 115.90 | 117.50 | (4.67) | (3.03) | (1.43) |

2016 Sparta WL Change
2006/2011/2015

| County | Station | Latitude | Longitude | LSA | Date | 2016 | 2015 | 2011 | 2006 | 15-16 WL | 11-16 WL | 06-16 WL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Measured | DTW | DTW | DTW | DTW | Change | Change | Change |
| Arkansas | 06S02W17ADA1 | 341023 | 911451 | 188.00 | 3/29/2016 | 111.52 | 110.05 | 110.50 | 112.70 | (1.47) | (1.02) | 1.18 |
| Arkansas | 03S04W33BAA1 | 342416 | 912645 | | 3/25/2016 | 154.26 | | | | | | |
| | | | | | | | **Declines/Wells:** | | | **24/30** | **18/33** | **14/29** |
| | | | | | | | **Average Change:** | | | (4.22) | **0.49** | (0.11) |
| | | | | | | | | | | | | |
| Ashley | 15S07W32CDD1 | 332117.77 | 915101.06 | 190.00 | 2/9/2016 | 138.10 | | 138.41 | 138.70 | | 0.31 | 0.60 |
| Ashley | 17S09W15ACC1 | 331333.66 | 920116.44 | 100.00 | 3/4/2016 | 24.05 | 22.05 | 22.83 | 20.30 | (2.00) | (1.22) | (3.75) |
| | | | | | | | **Declines/Wells:** | | | | **1/2** | **1/2** |
| | | | | | | | **Average Change:** | | | | (0.46) | (1.58) |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Bradley | 12S09W31CCB1 | 333711.24 | 920444.21 | 231.00 | 7/5/2016 | 189.10 | 197.29 | 184.12 | 174.85 | 8.19 | (4.98) | (14.25) |
| Bradley | 13S09W06ACB3 | 333647 | 920407 | 208.00 | 7/5/2016 | 147.93 | 163.97 | 168.24 | 163.40 | 16.04 | 20.31 | 15.47 |
| Bradley | 13S11W17BCD1 | 333453.65 | 921607.25 | 250.00 | 7/5/2016 | 201.36 | 194.48 | 191.89 | 191.20 | (6.88) | (9.47) | (10.16) |
| Bradley | 16S12W21CAA1 | 331839 | 922052 | 100.00 | 7/5/2016 | 75.43 | 73.73 | 78.36 | 78.80 | (1.70) | 2.93 | 3.37 |
| Bradley | 15S11W31DDD1 | 332142 | 921621 | 131.00 | 7/14/2016 | 98.68 | 99.03 | 102.40 | | 0.35 | 3.72 | |
| Bradley | 13S09W06DBD1 | 333625 | 920407 | | 7/5/2016 | 185.43 | | | | | | |
| | | | | | | | **Declines/Wells:** | | | **2/5** | **2/5** | **2/4** |
| | | | | | | | **Average Change:** | | | **3.20** | **2.50** | **(1.39)** |
| | | | | | | | | | | | | |
| Calhoun | 13S13W32CDA1 | 333226.81 | 922741.66 | 208.00 | 7/5/2016 | 163.86 | 176.69 | 175.50 | 185.75 | 12.83 | 11.64 | 21.89 |
| Calhoun | 14S13W05BBD1 | 333206.66 | 922801.55 | 189.00 | 3/1/2016 | 147.26 | 147.53 | 151.42 | 159.20 | 0.27 | 4.16 | 11.94 |
| Calhoun | 14S13W12CCB1 | 333040.05 | 922403.54 | 205.00 | 7/5/2016 | 176.00 | 170.58 | 165.18 | 177.04 | (5.42) | (10.82) | 1.04 |
| Calhoun | 11S14W12CAC3 | 334630 | 922927 | 313.00 | 7/5/2016 | 106.60 | 94.43 | 148.82 | 130.22 | (12.17) | 42.22 | 23.62 |
| Calhoun | 13S12W31DAA1 | 333233 | 922224 | | 7/5/2016 | 57.33 | | | | | | |
| Calhoun | 14S15W16BAA1 | 333055 | 923910 | | 3/1/2016 | 94.55 | | | | | | |
| Calhoun | 15S13W20BDC1 | 332407 | 922810 | | 3/2/2016 | 24.31 | | | | | | |
| Calhoun | 15S13W32BCA1 | 332230 | 922821 | | 3/2/2016 | 113.02 | | | | | | |
| | | | | | | | **Declines/Wells:** | | | **2/4** | **1/4** | **0/4** |
| | | | | | | | **Average Change:** | | | **(1.12)** | **11.80** | **14.62** |
| Columbia | 15S20W20CCB1 | 332453.37 | 931215.01 | 372.00 | 4/7/2016 | 216.22 | 216.51 | 215.70 | 216.75 | 0.29 | (0.52) | 0.53 |
| Columbia | 16S21W14CBB1 | 332049 | 931516 | 281.00 | 4/7/2016 | 221.18 | 193.16 | 200.04 | 181.15 | (28.02) | (21.14) | (40.03) |
| Columbia | 16S21W20DAD1 | 331955.06 | 931736.47 | 350.00 | 3/15/2016 | 276.25 | 263.41 | 254.43 | | (12.84) | (21.82) | |
| Columbia | 16S22W22CCD1 | 331947.61 | 932224.89 | 340.00 | 4/7/2016 | 132.36 | 150.44 | 132.97 | 134.20 | 18.08 | 0.61 | 1.84 |

2016 Sparta WL Change
2006/2011/2015

| County | Station | Latitude | Longitude | LSA | Date | 2016 | 2015 | 2011 | 2006 | 15-16 WL | 11-16 WL | 06-16 WL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Measured | DTW | DTW | DTW | DTW | Change | Change | Change |
| Columbia | 17S19W15ABD1 | 331537 | 930328 | 325.00 | 7/19/2016 | 253.17 | 259.10 | 277.31 | 247.60 | 5.93 | 24.14 | (5.57) |
| Columbia | 17S19W17ACA1 | 331538.06 | 930536.26 | 303.00 | 1/19/2016 | 255.85 | 283.02 | 271.86 | 275.65 | 27.17 | 16.01 | 19.80 |
| Columbia | 17S19W30ABB1 | 331406.12 | 930650.14 | 248.00 | 4/7/2016 | 211.97 | 211.71 | 215.52 | 215.90 | (0.26) | 3.55 | 3.93 |
| Columbia | 17S21W01BBC1 | 331743.07 | 931423.65 | 305.00 | 4/7/2016 | 249.64 | 247.47 | 250.37 | 264.97 | (2.17) | 0.73 | 15.33 |
| Columbia | 17S21W11DCC2 | 331608.55 | 931448.61 | 303.00 | 4/6/2016 | 265.76 | 266.69 | 271.97 | 289.83 | 0.93 | 6.21 | 24.07 |
| Columbia | 17S22W23BBB1 | 331519 | 932136 | 318.00 | 4/26/2016 | 145.96 | 146.41 | 148.80 | 141.50 | 0.45 | 2.84 | (4.46) |
| Columbia | 18S20W06DDC1 | 331142 | 931248 | 300.00 | 3/15/2016 | 286.60 | 320.40 | 303.58 | 284.79 | 33.80 | 16.98 | (1.81) |
| Columbia | 18S20W08CBC1 | 331114.79 | 931227.04 | 263.00 | 4/26/2016 | 261.36 | 251.68 | 272.20 | 282.46 | (9.68) | 10.84 | 21.10 |
| Columbia | 18S20W10CAA1 | 331054.37 | 931015.76 | 290.00 | 4/26/2016 | 267.96 | 269.44 | 271.15 | 275.71 | 1.48 | 3.19 | 7.75 |
| Columbia | 19S20W09CBD1 | 330555.38 | 931128.72 | 332.00 | 7/7/2016 | 260.28 | 260.15 | 262.70 | | (0.13) | 2.42 | |
| Columbia | 19S20W34BDD1 | 330239.09 | 931030.67 | 290.00 | 7/7/2016 | 208.48 | 207.97 | 208.50 | 211.78 | (0.51) | 0.02 | 3.30 |
| Columbia | 19S21W16DBB1 | 330517.2 | 931724.2 | 284.00 | 3/15/2016 | 171.14 | 172.27 | 173.80 | | 1.13 | 2.66 | |
| Columbia | 19S23W10ABD1 | 330643.92 | 932833.33 | 242.00 | 7/7/2016 | 44.36 | 45.02 | 45.51 | 44.79 | 0.66 | 1.15 | 0.43 |
| Columbia | 19S23W11CDA2 | 330609.39 | 932744.02 | 248.00 | 7/7/2016 | 53.82 | 52.55 | 51.25 | 53.20 | (1.27) | (2.57) | (0.62) |
| Columbia | 19S23W11DDB1 | 330604.93 | 932722.12 | 246.00 | 5/12/2016 | 50.04 | 54.45 | 55.05 | 57.16 | 4.41 | 5.01 | 7.12 |
| Columbia | 19S23W14BAB2 | 330555.24 | 932752.38 | 244.00 | 3/16/2016 | 40.54 | 43.51 | 45.02 | 50.17 | 2.97 | 4.48 | 9.63 |
| Columbia | 20S22W03DCC1 | 330138.44 | 932236.27 | 214.00 | 3/15/2016 | 105.10 | | 105.42 | 107.34 | | 0.32 | 2.24 |
| Columbia | 20S22W11ACD1 | 330109.20 | 932133.20 | 271.00 | 3/15/2016 | 107.41 | 106.62 | 107.10 | 114.30 | (0.79) | (0.31) | 6.89 |
| Columbia | 17S21W08DCA1 | 331613 | 931758 | 298.00 | 4/26/2016 | 205.45 | | | | | | |
| Columbia | 17S21W17BAB1 | 331607 | 931818 | 311.00 | 4/26/2016 | 194.98 | 195.36 | 188.48 | 214.68 | 0.38 | (6.50) | 19.70 |
| Columbia | 17S22W21ABD1 | 331516 | 932303 | 242.00 | 4/26/2016 | 79.58 | 81.57 | 81.28 | 83.10 | 1.99 | 1.70 | 3.52 |
| Columbia | 19S20W08DAB1 | 330558 | 931156 | 320.00 | 3/2/2016 | 257.28 | 257.68 | 274.62 | | 0.40 | 17.34 | |
| Columbia | 16S20W18ACD1 | 332052 | 931237 | | 3/15/2016 | 258.20 | | | | | | |
| Columbia | 16S21W15CBC1 | 332041 | 931622 | | 3/15/2016 | 210.31 | | | | | | |
| Columbia | 16S21W20CDC1 | 331943 | 931815 | | 4/7/2016 | 264.03 | | | | | | |
| Columbia | 17S22W22ABB1 | 331521 | 932209 | | 4/26/2016 | 131.91 | | | | | | |
| Columbia | 18S21W26CCC1 | 330822 | 931544 | | 10/18/2016 | 275.03 | | | | | | |
| Columbia | 18S22W27DDD1 | 330834 | 932158 | | 7/7/2016 | 138.41 | | | | | | |
| | | | | | | | **Declines/Wells:** | | | **9/24** | **6/25** | **5/21** |
| | | | | | | | **Average Change:** | | | **1.85** | **2.69** | **4.51** |
| | | | | | | | | | | | | |
| Craighead | 13N03E23CDD1 | 354404.17 | 904432.83 | 248.00 | 5/6/2016 | 93.63 | | 93.16 | 87.90 | | (0.47) | (5.73) |
| Craighead | 14N04E22CBD1 | 354928.92 | 903920.99 | 256.00 | 5/25/2016 | 61.35 | | 58.28 | 59.20 | | (3.07) | (2.15) |
| Craighead | 14N05E36CBC1 | 354750.84 | 903100.18 | 220.00 | 5/25/2016 | 12.51 | | 13.62 | 13.50 | | 1.11 | 0.99 |

2016 Sparta WL Change
2006/2011/2015

| County | Station | Latitude | Longitude | LSA | Date | 2016 | 2015 | 2011 | 2006 | 15-16 WL | 11-16 WL | 06-16 WL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Measured | DTW | DTW | DTW | DTW | Change | Change | Change |
| Craighead | 15N05E29DBB1 | 355359.83 | 903432.73 | 258.00 | 5/25/2016 | 25.37 | | 25.95 | | | 0.58 | |
| Craighead | 15N06E18ACA1 | 355544.42 | 902858.20 | 230.00 | 5/25/2016 | 20.62 | | 19.21 | 19.50 | | (1.41) | (1.12) |
| Craighead | 13N03E29AAA1 | 354402 | 904712 | | 3/23/2016 | 116.10 | | | | | | |
| Craighead | 13N05E22BAD1 | 354449 | 903243 | | 3/25/2016 | 13.00 | | | | | | |
| Craighead | 15N04E20ADB1 | 355508 | 904045 | | 5/25/2016 | 119.75 | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | Declines/Wells: | | | | 3/5 | 3/4 |
| | | | | | | | Average Change: | | | | (0.65) | (2.00) |
| | | | | | | | | | | | | |
| Crittenden | 06N07E01DAD2 | 350958.04 | 901738.42 | 209.00 | 4/6/2016 | 23.26 | | 23.85 | 26.60 | | 0.59 | 3.34 |
| Crittenden | 07N09E14BAC1 | 351348.14 | 900628.23 | 217.00 | 3/27/2016 | 30.90 | | | 32.20 | | | 1.30 |
| Crittenden | 06N09E23AAB1 | 350744 | 900556 | 222.00 | 4/4/2016 | 48.35 | | 46.56 | | | (1.79) | |
| Crittenden | 09N07E21BBB1 | 352341 | 902131 | 216.00 | 4/18/2016 | 24.19 | 25.18 | 25.12 | | 0.99 | 0.93 | |
| Crittenden | 05N08E11CCA2 | 350344 | 901300 | | 3/28/2016 | 21.76 | | | | | | |
| Crittenden | 08N07E35BBC2 | 351630 | 901933 | | 4/6/2016 | 34.16 | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | Declines/Wells: | | | | 1/3 | 0/3 |
| | | | | | | | Average Change: | | | | (0.09) | 2.32 |
| | | | | | | | | | | | | |
| Cross | 06N04E06ACA1 | 351004.29 | 904237.72 | 358.00 | 4/28/2016 | 195.34 | 197.06 | 202.83 | | 1.72 | 7.49 | |
| Cross | 07N05E04ADD1 | 351538.11 | 903329.85 | 209.00 | 4/28/2016 | 33.26 | 35.03 | 33.43 | 34.70 | 1.77 | 0.17 | 1.44 |
| Cross | 08N02E18BDB1 | 351908 | 905538 | 228.00 | 4/27/2016 | 91.56 | | 87.89 | 89.00 | | (3.67) | (2.56) |
| Cross | 09N01E16CAC1 | 352405.00 | 905950.75 | 234.00 | 4/28/2016 | 101.88 | | 94.80 | 90.00 | | (7.08) | (11.88) |
| Cross | 09N03E22AAB2 | 352403.82 | 904518.39 | 277.00 | 4/28/2016 | 134.80 | 133.70 | 130.12 | 127.60 | (1.10) | (4.68) | (7.20) |
| Cross | 09N03E22AAD1 | 352403.2 | 904511.77 | 278.00 | 4/28/2016 | 128.26 | | 127.55 | 127.60 | | (0.71) | (0.66) |
| Cross | 09N04E30DCA1 | 352231 | 904215 | 419.32 | 4/28/2016 | 288.27 | 265.84 | 276.63 | 279.20 | (22.43) | (11.64) | (9.07) |
| Cross | 07N03E17CAD1 | 351304 | 904822 | | 4/28/2016 | 110.72 | | | | | | |
| Cross | 09N01E25AAD1 | 352250 | 905553 | | 4/27/2016 | 95.64 | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | Declines/Wells: | | | 2/4 | 5/7 | 5/6 |
| | | | | | | | Average Change: | | | (5.01) | (2.87) | (4.99) |
| | | | | | | | | | | | | |
| Dallas | 07S16W20CAB1 | 340559 | 924541 | 322.00 | 4/13/2016 | 23.40 | | 25.72 | 26.40 | | 2.32 | 3.00 |
| Dallas | 09S16W19CAA1 | 335605.48 | 924701.17 | 260.00 | 4/12/2016 | 6.00 | 6.14 | 7.40 | 11.00 | 0.14 | 1.40 | 5.00 |

2016 Sparta WL Change
2006/2011/2015

| County | Station | Latitude | Longitude | LSA | Date | 2016 | 2015 | 2011 | 2006 | 15-16 WL | 11-16 WL | 06-16 WL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Measured | DTW | DTW | DTW | DTW | Change | Change | Change |
| Dallas | 07S15W33DAC1 | 340402 | 923752 | 475.00 | 6/14/2016 | 22.60 | 25.53 | 33.40 | | 2.93 | 10.80 | |
| Dallas | 10S145W11DBB1 | 335201 | 923632 | 295.00 | 5/12/2016 | 55.53 | 57.89 | 57.21 | | 2.36 | 1.68 | |
| Dallas | 07S14W30DCC1 | 340430 | 923400 | | 4/12/2016 | 120.00 | | | | | | |
| Dallas | 08S16W27DDD1 | 335935 | 924307 | | 5/12/2016 | 31.94 | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | **Declines/Wells:** | | | **0/3** | **0/4** | **0/2** |
| | | | | | | | **Average Change:** | | | **1.81** | **4.05** | **4.00** |
| | | | | | | | | | | | | |
| Desha | 09S02W26AAC1 | 335346.00 | 911520.82 | 153.00 | 2/16/2016 | 71.99 | | 67.50 | 73.40 | | (4.49) | 1.41 |
| Desha | 09S04W28DDD1 | 335309.60 | 913006.71 | 165.00 | 2/16/2016 | 113.92 | | 116.54 | 112.50 | | 2.62 | (1.42) |
| Desha | 11S02W03CCA1 | 334615.78 | 911711.03 | 139.00 | 2/16/2016 | 71.49 | 68.33 | 62.54 | 70.50 | (3.16) | (8.95) | (0.99) |
| Desha | 12S03W34DAD1 | 333643.44 | 912305.04 | 147.00 | 2/16/2016 | 81.75 | | 77.31 | 89.10 | | (4.44) | 7.35 |
| | | | | | | | | | | | | |
| | | | | | | | **Declines/Wells:** | | | | **3/4** | **2/4** |
| | | | | | | | **Average Change:** | | | | **(3.82)** | **1.59** |
| | | | | | | | | | | | | |
| Drew | 11S04W25CB2 | 334249.46 | 912706.98 | 148.00 | 3/2/2016 | 88.38 | 85.43 | 87.81 | 98.40 | (2.95) | (0.57) | 10.02 |
| Drew | 13S05W36ACB1 | 333150.88 | 913407.59 | 169.00 | 3/2/2016 | 92.20 | 92.12 | 91.73 | 89.50 | (0.08) | (0.47) | (2.70) |
| Drew | 15S04W12DDA1 | 332429.38 | 912723.69 | 125.00 | 3/2/2016 | 63.54 | 64.00 | 63.92 | 63.20 | 0.46 | 0.38 | (0.34) |
| Drew | 11S04W02ACA1 | 334636 | 912832 | | 3/2/2016 | 96.09 | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | **Declines/Wells:** | | | **2/3** | **2/3** | **2/3** |
| | | | | | | | **Average Change:** | | | **(0.86)** | **(0.22)** | **2.33** |
| | | | | | | | | | | | | |
| Grant | 03S13W12AAA1 | 342845.65 | 922106.24 | 361.00 | 5/12/2016 | 130.07 | 128.88 | 129.79 | 132.00 | (1.19) | (0.28) | 1.93 |
| Grant | 03S15W26DAA1 | 342600.52 | 923447.01 | 337.00 | 4/12/2016 | 8.10 | 5.03 | 10.90 | 8.10 | (3.07) | 2.80 | 0.00 |
| Grant | 05S13W03CAA1 | 341843.97 | 922400.47 | 260.00 | 5/4/2016 | 84.39 | 84.53 | 83.79 | 87.80 | 0.14 | (0.60) | 3.41 |
| Grant | 05S13W03CDA4 | 341837.64 | 922401.95 | 281.00 | 5/4/2016 | 106.95 | 113.10 | 105.17 | 111.10 | 6.15 | (1.78) | 4.15 |
| Grant | 05S14W06DCC1 | 341842.5 | 923326.69 | 293.00 | 4/5/2016 | 82.30 | | 85.47 | 87.40 | | 3.17 | 5.10 |
| Grant | 05S15W05ABD1 | 341923.78 | 923826.87 | 236.00 | 5/31/2016 | 10.00 | 11.69 | 14.47 | 14.50 | 1.69 | 4.47 | 4.50 |
| Grant | 06S11W05ACD1 | 341340.82 | 921413.01 | 269.00 | 5/12/2016 | 175.70 | 186.09 | 189.02 | 196.10 | 10.39 | 13.32 | 20.40 |
| Grant | 06S15W26ACA1 | 341021.99 | 923537.59 | 280.00 | 4/14/2016 | 62.55 | 62.38 | 63.64 | 67.20 | (0.17) | 1.09 | 4.65 |
| Grant | 04S15W02DAC1 | 342405 | 923456 | 322.00 | 3/1/2016 | 84.50 | 85.75 | 85.00 | | 1.25 | 0.50 | |
| | | | | | | | | | | | | |

2016 Sparta WL Change
2006/2011/2015

| County | Station | Latitude | Longitude | LSA | Date Measured | 2016 DTW | 2015 DTW | 2011 DTW | 2006 DTW | 15-16 WL Change | 11-16 WL Change | 06-16 WL Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Declines/Wells: | | | 3/8 | 3/9 | 0/8 |
| | | | | | | | Average Change: | | | 1.90 | 2.52 | 5.52 |
| | | | | | | | | | | | | |
| Jefferson | 03S08W19BBD1 | 342628.36 | 915504.54 | 215.00 | 3/24/2016 | 161.19 | 166.36 | 162.78 | 172.80 | 5.17 | 1.59 | 11.61 |
| Jefferson | 03S10W27AAD1 | 342502.05 | 920433.81 | 222.00 | 3/24/2016 | 122.35 | | | 125.80 | | | 3.45 |
| Jefferson | 03S11W22ABC1 | 342650.81 | 921058.27 | 310.00 | 3/23/2016 | 171.10 | 170.10 | 170.37 | | (1.00) | (0.73) | |
| Jefferson | 04S11W14BAD1 | 342219.74 | 921000.07 | 400.00 | 3/23/2016 | 300.00 | | | | | | |
| Jefferson | 06S08W16CCC1 | 341143.07 | 915517.06 | 202.42 | 3/1/2016 | 238.50 | 235.46 | 239.21 | 257.60 | (3.04) | 0.71 | 19.10 |
| Jefferson | 06S10W23ACA2 | 341123.09 | 920503.93 | 235.00 | 3/31/2016 | 203.29 | | | | | | |
| Jefferson | 07S07W24BAB1 | 340632.68 | 914522.99 | 188.00 | 3/31/2016 | 161.05 | 157.27 | 160.68 | 161.00 | (3.78) | (0.37) | (0.05) |
| Jefferson | 04S09W11BAA1 | 342309 | 915702 | 210.00 | 3/29/2016 | 108.85 | | | | | | |
| Jefferson | 05S08W30ADB1 | 341453 | 915441 | 221.00 | 4/27/2016 | 270.73 | 276.61 | 276.43 | | 5.88 | 5.70 | |
| Jefferson | 06S09W17CAD1 | 341158 | 920206 | 233.00 | 3/31/2016 | 263.82 | 246.68 | 255.30 | 282.60 | (17.14) | (8.52) | 18.78 |
| Jefferson | 05S09W31DDC1 | 341336 | 920109 | | 3/31/2016 | 256.30 | | | | | | |
| Jefferson | 05S10W16DBD1 | 341634 | 920534 | | 3/23/2016 | 276.81 | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | Declines/Wells: | | | 4/6 | 3/6 | 1/5 |
| | | | | | | | Average Change: | | | (2.32) | (0.27) | 10.58 |
| | | | | | | | | | | | | |
| Lonoke | 01N07W03BCC1 | 344425.34 | 914503.28 | 223.00 | 4/12/2016 | 138.59 | 141.30 | 136.20 | 129.50 | 2.71 | (2.39) | (9.09) |
| Lonoke | 02N07W06ACD1 | 344939.05 | 914737.03 | 241.00 | 4/13/2016 | 139.42 | 125.90 | 124.51 | | (13.52) | (14.91) | |
| Lonoke | 02N07W09AAA1 | 344906.42 | 914500.30 | 232.00 | 4/15/2016 | 104.78 | 103.38 | 102.77 | 100.30 | (1.40) | (2.01) | (4.48) |
| Lonoke | 02N07W22DBA1 | 344651.49 | 914425.68 | 227.00 | 4/12/2016 | 140.83 | 139.59 | 135.45 | 129.85 | (1.24) | (5.38) | (10.98) |
| Lonoke | 02N07W32DDD1 | 344448 | 914618 | 226.00 | 4/12/2016 | 147.64 | | 139.74 | 132.80 | | (7.90) | (14.84) |
| Lonoke | 01S08W02DBD1 | 343853 | 915002 | 210.00 | 4/12/2016 | 99.40 | 109.61 | 108.41 | 112.75 | 10.21 | 9.01 | 13.35 |
| Lonoke | 02S07W08DCC1 | 343235 | 914700 | 202.00 | 4/12/2016 | 131.28 | 126.65 | 141.71 | | (4.63) | 10.43 | |
| Lonoke | 02S08W16BDA1 | 343227 | 915227 | 216.00 | 4/12/2016 | 124.88 | 120.43 | 126.40 | | (4.45) | 1.52 | |
| Lonoke | 03N08W22DAD1 | 345152 | 915024 | 235.00 | 4/13/2016 | 101.02 | 102.62 | 98.99 | | 1.60 | (2.03) | |
| Lonoke | 03N08W22DAD2 | 345205 | 915024 | 233.00 | 3/31/2016 | 101.50 | 104.25 | 99.66 | | 2.75 | (1.84) | |
| Lonoke | 02S09W15BBB2 | 343246 | 915823 | | 4/12/2016 | 68.53 | | | | | | |
| Lonoke | 03N08W22DAD3 | 345204 | 915024 | | 3/29/2016 | 101.40 | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | Declines/Wells: | | | 5/9 | 7/10 | 4/5 |
| | | | | | | | Average Change: | | | (0.89) | (1.55) | (5.21) |

2016 Sparta WL Change
2006/2011/2015

| County | Station | Latitude | Longitude | LSA | Date | 2016 | 2015 | 2011 | 2006 | 15-16 WL | 11-16 WL | 06-16 WL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Measured | DTW | DTW | DTW | DTW | Change | Change | Change |
| Ouachita | 11S15W27ABD1 | 334440.87 | 923725.58 | 200.00 | 6/21/2016 | 72.39 | 68.63 | 69.72 | 72.20 | (3.76) | (2.67) | (0.19) |
| Ouachita | 11S17W36CCA1 | 334341.11 | 924834.21 | 133.00 | 4/25/2016 | 4.52 | | 7.94 | | | 3.42 | |
| Ouachita | 12S15W09BBA1 | 334223.32 | 923922.44 | 213.00 | 6/21/2016 | 50.82 | 39.08 | 47.83 | 63.15 | (11.74) | (2.99) | 12.33 |
| Ouachita | 12S16W25BDC1 | 333929.4 | 924210.82 | 140.00 | 6/21/2016 | 27.96 | 29.10 | 35.25 | 36.20 | 1.14 | 7.29 | 8.24 |
| Ouachita | 12S16W26ABD1 | 333945.55 | 924304.12 | 137.00 | 4/21/2016 | 17.57 | 19.44 | 32.23 | 31.38 | 1.87 | 14.66 | 13.81 |
| Ouachita | 12S18W19CDC1 | 334018 | 925948 | 235.00 | 4/12/2016 | 30.70 | 27.04 | 32.58 | 27.40 | (3.66) | 1.88 | (3.30) |
| Ouachita | 12S18W25CAB1 | 333937.19 | 925441.87 | 187.00 | 6/21/2016 | 78.78 | 77.65 | 78.51 | 79.40 | (1.13) | (0.27) | 0.62 |
| Ouachita | 12S19W09BAB1 | 334251.46 | 930351.94 | 290.00 | 4/12/2016 | 8.70 | 5.08 | 14.79 | 18.30 | (3.62) | 6.09 | 9.60 |
| Ouachita | 12S19W35BDD1 | 333901.13 | 930145.97 | 350.00 | 4/15/2016 | 155.95 | 163.74 | 156.69 | 159.10 | 7.79 | 0.74 | 3.15 |
| Ouachita | 13S16W28ADD1 | 333416.22 | 924450.63 | 106.00 | 6/21/2016 | 22.05 | 20.78 | 27.4 | 29.75 | (1.27) | 5.35 | 7.70 |
| Ouachita | 13S19W28BCD1 | 333433.86 | 930417.81 | 230.00 | 4/25/2016 | 35.72 | 36.05 | 37.55 | 39.80 | 0.33 | 1.83 | 4.08 |
| Ouachita | 14S16W32BDB1 | 332815.62 | 924639.52 | 231.00 | 4/26/2016 | 12.46 | 13.63 | 38.28 | 37.14 | 1.17 | 25.82 | 24.68 |
| Ouachita | 14S17W05CAD1 | 333238.01 | 925254.64 | 157.00 | 4/6/2016 | 34.34 | 34.70 | 38.02 | 39.34 | 0.36 | 3.68 | 5.00 |
| Ouachita | 14S17W19DBB1 | 333002.20 | 925345.44 | 259.00 | 4/21/2016 | 9.92 | 13.61 | 38.20 | 33.55 | 3.69 | 28.28 | 23.63 |
| Ouachita | 14S17W32CAD1 | 332803.41 | 925251.18 | 220.00 | 4/25/2016 | 74.57 | 75.96 | 79.04 | 81.26 | 1.39 | 4.47 | 6.69 |
| Ouachita | 14S19W29ABB1 | 332941.45 | 930513.43 | 280.00 | 4/25/2016 | 88.35 | 89.28 | 88.38 | 87.20 | 0.93 | 0.03 | (1.15) |
| Ouachita | 15S15W32DBB2 | 332233.72 | 924027.13 | 119.00 | 4/26/2016 | 150.22 | 151.23 | 159.17 | 173.50 | 1.01 | 8.95 | 23.28 |
| Ouachita | 15S18W36ADD1 | 332310.75 | 925436.06 | 160.00 | 4/25/2016 | 88.43 | 88.86 | 91.14 | 94.55 | 0.43 | 2.71 | 6.12 |
| Ouachita | 15S19W21CDD2 | 332438.02 | 930431.9 | 272.00 | 4/6/2016 | 187.40 | 187.38 | 188.00 | 189.96 | (0.02) | 0.60 | 2.56 |
| Ouachita | 13S18W06BBA1 | 333819 | 930006 | 282.00 | 4/25/2016 | 113.39 | 115.10 | | | 1.71 | | |
| Ouachita | 14S17W03CBA1 | 333234 | 925055 | 140.00 | 4/26/2016 | 12.32 | | | | | | |
| Ouachita | 15S16W23DAC1 | 332415 | 924313 | 170.00 | 4/26/2016 | 115.22 | 116.64 | | | 1.42 | | |
| Ouachita | 13S18W31BDD1 | 333340 | 925958 | 242.00 | 4/25/2016 | 68.11 | | | 71.70 | | | 3.59 |
| Ouachita | 11S18W20AAA1 | 334614 | 925759 | | 6/21/2016 | 42.86 | | | | | | |
| Ouachita | 13S18W06CBB1 | 333758 | 930012 | | 6/21/2016 | 113.94 | | | | | | |
| Ouachita | 14S17W02ABB1 | 333252 | 924926 | | 6/22/2016 | 26.60 | | | | | | |
| Ouachita | 14S18W27BDC1 | 332918 | 925703 | | 9/14/2016 | 42.49 | | | | | | |
| Ouachita | 15S16W30DBD1 | 332330 | 924717 | | 6/22/2016 | 183.28 | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | **Declines/Wells:** | | | **7/20** | **3/19** | **3/19** |
| | | | | | | | **Average Change:** | | | **(0.10)** | **5.78** | **7.92** |
| | | | | | | | | | | | | |
| Phillips | 01S02E32DDC1 | 343324.32 | 905455.41 | 211.00 | 3/23/2016 | 76.98 | 77.46 | 77.81 | 76.30 | 0.48 | 0.83 | (0.68) |
| Phillips | 02S02E01ADC1 | 343323.48 | 905056.27 | 176.00 | 3/23/2016 | 34.68 | 35.73 | 32.82 | 31.00 | 1.05 | (1.86) | (3.68) |

2016 Sparta WL Change
2006/2011/2015

| County | Station | Latitude | Longitude | LSA | Date | 2016 | 2015 | 2011 | 2006 | 15-16 WL | 11-16 WL | 06-16 WL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Measured | DTW | DTW | DTW | DTW | Change | Change | Change |
| Phillips | 02S04E02DBA1 | 343242.87 | 903906.98 | 250.00 | 3/23/2016 | 93.39 | 98.54 | 91.83 | 105.30 | 5.15 | (1.56) | 11.91 |
| Phillips | 02S05E29CCC1 | 342850.81 | 903635.44 | 179.00 | 3/22/2016 | 18.43 | 20.71 | 15.06 | 26.75 | 2.28 | (3.37) | 8.32 |
| Phillips | 03S03E30DAA1 | 342402.88 | 904914.59 | 172.00 | 3/23/2016 | 40.93 | 42.64 | 37.28 | 41.90 | 1.71 | (3.65) | 0.97 |
| Phillips | 02S05E16BCB1 | 343110 | 903525 | | 3/22/2016 | 29.13 | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | **Declines/Wells:** | | | **0/5** | **4/5** | **2/5** |
| | | | | | | | **Average Change:** | | | **2.13** | **(1.92)** | **3.37** |
| | | | | | | | | | | | | |
| Poinsett | 10N01E12BDC1 | 353026.35 | 905629.57 | 234.00 | 4/26/2016 | 108.87 | | 104.40 | 97.50 | | (4.47) | (11.37) |
| Poinsett | 10N01E15DBB1 | 352930.54 | 905825.14 | 232.00 | 4/26/2016 | 100.11 | | 96.14 | 95.90 | | (3.97) | (4.21) |
| Poinsett | 11N02E16CCC1 | 353448.21 | 905321.22 | 243.00 | 4/26/2016 | 118.63 | | 113.65 | 107.30 | | (4.98) | (11.33) |
| Poinsett | 11N02E11BDC1 | 353606 | 905107 | | 4/18/2016 | 120.58 | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | **Declines/Wells:** | | | | **3/3** | **3/3** |
| | | | | | | | **Average Change:** | | | | **(4.47)** | **(8.97)** |
| | | | | | | | | | | | | |
| Prairie | 01N05W19CDC1 | 344113.1 | 913505.27 | 212.00 | 4/5/2016 | 154.72 | 146.53 | 146.47 | 150.20 | (8.19) | (8.25) | (4.52) |
| Prairie | 01N06W34CBB1 | 343943.01 | 913846.17 | 226.00 | 4/5/2016 | 160.10 | 164.25 | 162.87 | 163.65 | 4.15 | 2.77 | 3.55 |
| Prairie | 01S05W06BCB1 | 343903.98 | 913531.63 | 220.00 | 4/6/2016 | 162.40 | 165.72 | 157.39 | 155.55 | 3.32 | (5.01) | (6.85) |
| Prairie | 01S05W20ABB1 | 343639.91 | 913351.89 | 220.00 | 4/5/2016 | 158.08 | 164.37 | 158.62 | 167.00 | 6.29 | 0.54 | 8.92 |
| Prairie | 01S06W11DBD1 | 343748.99 | 913654.24 | 226.00 | 4/6/2016 | 169.52 | 170.33 | 177.72 | 170.50 | 0.81 | 8.20 | 0.98 |
| Prairie | 02N06W19AAB1 | 344718.24 | 914049.95 | 236.00 | 4/13/2016 | 156.12 | 155.18 | 152.69 | 150.07 | (0.94) | (3.43) | (6.05) |
| Prairie | 02N06W20BCB1 | 344706.57 | 914032.97 | 236.00 | 4/7/2016 | 159.76 | 160.04 | 149.24 | 157.80 | 0.28 | (10.52) | (1.96) |
| Prairie | 02N06W21DAD1 | 344644.15 | 913829.47 | 232.00 | 4/7/2016 | 125.67 | 123.85 | 128.86 | 122.00 | (1.82) | 3.19 | (3.67) |
| Prairie | 02N06W22BDD1 | 344653.66 | 913800.68 | 233.00 | 4/7/2016 | 125.88 | 121.15 | 130.44 | | (4.73) | 4.56 | |
| Prairie | 03N05W03ADA2 | 345451.65 | 913042.51 | 205.00 | 4/5/2016 | 61.06 | | 61.08 | 74.20 | | 0.02 | 13.14 |
| Prairie | 03N06W20CDD1 | 345140.24 | 914003.93 | 225.00 | 4/15/2016 | 91.52 | | 85.70 | 85.72 | | (5.82) | (5.80) |
| Prairie | 02N06W24CAA2 | 344651 | 913551 | 233.00 | 10/5/2016 | 142.71 | | | | | | |
| Prairie | 01S06W01BDD2 | 343859 | 913613 | 226.00 | 4/5/2016 | 162.51 | 173.94 | 162.73 | 161.34 | 11.43 | 0.22 | (1.17) |
| Prairie | 02N06W04DBB1 | 344928 | 913852 | | 4/5/2016 | 107.74 | 108.45 | 106.05 | | 0.71 | (1.69) | |
| Prairie | 01S06W12BAB2 | 343826 | 913613 | | 4/5/2016 | 165.69 | | | | | | |
| Prairie | 02N05W24BCA4 | 344659 | 912937 | | 4/6/2016 | 101.72 | | | | | | |
| | | | | | | | **Declines/Wells:** | | | **4/11** | **6/13** | **7/11** |
| | | | | | | | **Average Change:** | | | **1.03** | **(1.17)** | **(0.31)** |

2016 Sparta WL Change
2006/2011/2015

| County | Station | Latitude | Longitude | LSA | Date | 2016 | 2015 | 2011 | 2006 | 15-16 WL | 11-16 WL | 06-16 WL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Measured | DTW | DTW | DTW | DTW | Change | Change | Change |
| Union | 16S14W15CAB1 | 331944.03 | 923218.09 | 94.00 | 3/2/2016 | 129.94 | 127.24 | 133.56 | 161.39 | (2.70) | 3.62 | 31.45 |
| Union | 16S16W02ABC1 | 332205 | 924330 | 116.00 | 4/7/2016 | 145.05 | 146.26 | 158.27 | 167.81 | 1.21 | 13.22 | 22.76 |
| Union | 17S13W31BAC1 | 331200.17 | 922915.7 | 216.00 | 7/20/2016 | 202.38 | 204.20 | | | 1.82 | | |
| Union | 17S14W10DCC1 | 331456.79 | 923203.26 | 182.00 | 7/20/2016 | 89.80 | 87.25 | 93.78 | 96.14 | (2.55) | 3.98 | 6.34 |
| Union | 17S14W15ABA1 | 331451.3 | 923159.8 | 169.00 | 7/20/2016 | 89.87 | 83.57 | 93.74 | | (6.30) | 3.87 | |
| Union | 17S15W06BAA1 | 331645.6 | 924133.99 | 170.00 | 5/31/2016 | 210.62 | 212.07 | | 250.50 | 1.45 | | 39.88 |
| Union | 17S15W08CDD1 | 331504.77 | 924027.41 | 174.92 | 5/31/2016 | 254.40 | 255.69 | 270.36 | 303.20 | 1.29 | 15.96 | 48.80 |
| Union | 17S15W18DBB1 | 331438.96 | 924129.21 | 182.93 | 1/19/2016 | 272.30 | 274.43 | 286.84 | 327.27 | 2.13 | 14.54 | 54.97 |
| Union | 17S15W28DBA1 | 331246.08 | 923909.78 | 230.00 | 1/20/2016 | 316.09 | 316.74 | 327.77 | | 0.65 | 11.68 | |
| Union | 17S15W31DDA1 | 331143.75 | 924104.87 | 261.00 | 4/21/2016 | 359.34 | 360.52 | 374.10 | | 1.18 | 14.76 | |
| Union | 17S16W01BAA1 | 331649.04 | 924232.96 | 188.84 | 5/31/2016 | 250.97 | 249.01 | 262.65 | 305.75 | (1.96) | 11.68 | 54.78 |
| Union | 17S17W25DBA2 | 331256 | 924837 | 250.00 | 1/19/2016 | 309.52 | 310.22 | 320.58 | 349.73 | 0.70 | 11.06 | 40.21 |
| Union | 17S17W30DCD1 | 331257.41 | 925355.54 | 280.00 | 3/8/2016 | 285.92 | 278.16 | 303.86 | 311.70 | (7.76) | 17.94 | 25.78 |
| Union | 18S12W33CBC1 | 330650.66 | 922119.92 | 112.00 | 3/2/2016 | 113.04 | 112.71 | | 111.60 | (0.33) | | (1.44) |
| Union | 18S15W03DAB1 | 331103.78 | 923802.12 | 240.00 | 4/6/2016 | 319.06 | 318.59 | 328.10 | 349.73 | (0.47) | 9.04 | 30.67 |
| Union | 18S15W33ADA1 | 330659.32 | 923858.48 | 253.00 | 4/5/2016 | 324.77 | 339.11 | 332.36 | 374.39 | 14.34 | 7.59 | 49.62 |
| Union | 18S15W35DAC1 | 330635 | 923707 | 201.00 | 3/8/2016 | 274.75 | | 261.91 | 292.97 | | (12.84) | 18.22 |
| Union | 18S16W11DAC1 | 331011.23 | 924316.37 | 272.00 | 5/31/2016 | 362.00 | 356.99 | 367.36 | 421.40 | (5.01) | 5.36 | 59.40 |
| Union | 18S16W10CDD1 | 331000.38 | 924445.32 | 182.00 | 3/8/2016 | 274.35 | | 272.75 | | | (1.60) | |
| Union | 18S16W12ACB1 | 331028.75 | 924231.85 | 302.00 | 3/8/2016 | 387.06 | 388.96 | 399.92 | 435.35 | 1.90 | 12.86 | 48.29 |
| Union | 18S17W22BDD1 | 330855.91 | 925056.48 | 285.00 | 4/6/2016 | 317.39 | 318.11 | 327.29 | 351.02 | 0.72 | 9.90 | 33.63 |
| Union | 19S10W16CBC1 | 330329 | 920903 | 82.00 | 4/28/2016 | 80.30 | 81.90 | 86.55 | 90.51 | 1.60 | 6.25 | 10.21 |
| Union | 19S11W25AAA1 | 330217.84 | 921113.03 | 135.00 | 4/28/2016 | 139.73 | 138.86 | 145.49 | 153.26 | (0.87) | 5.76 | 13.53 |
| Union | 19S12W13AAA1 | 330411.26 | 921716.78 | 191.00 | 1/28/2016 | 159.85 | 160.97 | 159.66 | 157.22 | 1.12 | (0.19) | (2.63) |
| Union | 19S15W01CCA1 | 330534.81 | 923645.01 | 192.00 | 4/28/2016 | 31.54 | 19.96 | 14.34 | 68.90 | (11.58) | (17.20) | 37.36 |
| Union | 19S18W14ADA1 | 330451.70 | 925607.90 | 243.00 | 5/31/2016 | 187.62 | 188.35 | 190.81 | 193.00 | 0.73 | 3.19 | 5.38 |
| Union | 16S17W36DCC1 | 331700 | 924842 | 180.00 | 4/28/2016 | 215.76 | 215.53 | 225.84 | | (0.23) | 10.08 | |
| Union | 19S11W23ACA1 | 330255 | 921229 | 142.00 | 4/28/2016 | 144.85 | 148.35 | 151.17 | 154.01 | 3.50 | 6.32 | 9.16 |
| Union | 17S14W22BAB1 | 331354 | 923224 | 201.00 | 4/6/2016 | 272.09 | 267.62 | 276.92 | 309.35 | (4.47) | 4.83 | 37.26 |
| Union | 18S12W33BBB1 | 330651 | 922120 | 112.00 | 4/5/2016 | 139.43 | 131.68 | 138.40 | 111.60 | (7.75) | (1.03) | (27.83) |
| Union | 16S14W34CBC1 | 331701 | 923223 | | 8/24/2016 | 258.73 | | | | | | |
| Union | 16S15W20DAA1 | 331900 | 923956 | | 7/26/2016 | 239.27 | | | | | | |
| Union | 16S15W31ACC1 | 331717 | 924128 | | 5/31/2016 | 241.74 | | | | | | |
| Union | 16S16W02ABC1 | 332205 | 924330 | | 4/7/2016 | 145.05 | | | | | | |

2016 Sparta WL Change
2006/2011/2015

| County | Station | Latitude | Longitude | LSA | Date Measured | 2016 DTW | 2015 DTW | 2011 DTW | 2006 DTW | 15-16 WL Change | 11-16 WL Change | 06-16 WL Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Union | 16S16W03CBC1 | 332138 | 924507 | | 3/8/2016 | 205.31 | | | | | | |
| Union | 16S18W34ABC2 | 331805 | 925709 | | 7/26/2016 | 200.25 | | | | | | |
| Union | 17S15W28DCC1 | 331223 | 923922 | | 5/31/2016 | 397.79 | | | | | | |
| Union | 17S15W31DCA3 | 331143 | 924119 | | 4/28/2016 | 102.58 | | | | | | |
| Union | 17S15W33ABB1 | 331223 | 923924 | | 5/31/2016 | 354.49 | | | | | | |
| Union | 17S15W36BAB1 | 331217 | 923628 | | 4/24/2016 | 323.88 | | | | | | |
| Union | 18S13W16ADD1 | 330915 | 922653 | | 7/20/2016 | 168.26 | | | | | | |
| Union | 18S14W06CCD1 | 331040 | 923531 | | 8/29/2016 | 296.92 | | | | | | |
| Union | 18S16W28BBB1 | 330809 | 924611 | | 3/8/2016 | 281.25 | | | | | | |
| Union | 18S18W11ACD2 | 331057 | 925559 | | 5/31/2016 | 251.02 | | | | | | |
| Union | 19S16W35DDC1 | 330107 | 924323 | | 4/28/2016 | 211.01 | | | | | | |
| Union | 19S17W16BAA1 | 330455 | 925152 | | 5/31/2016 | 253.05 | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | **Declines/Wells:** | | | **13/28** | **5/27** | **4/25** |
| | | | | | | | **Average Change:** | | | **(0.63)** | **6.32** | **26.91** |
| | | | | | | | | | | | | |
| Woodruff | 05N01W11ABA1 | 350425.81 | 910407.19 | 211.00 | 5/12/2016 | 64.10 | | 61.17 | 50.60 | | (2.93) | (13.50) |
| Woodruff | 05N01W17DBB1 | 350310.68 | 910727.11 | 210.00 | 4/21/2016 | 49.20 | | 46.74 | 46.35 | | (2.46) | (2.85) |
| Woodruff | 05N02W31DCB3 | 350026.9 | 911455.9 | 193.00 | 4/26/2016 | 15.40 | | 13.09 | 14.55 | | (2.31) | (0.85) |
| Woodruff | 06N01W13ABA1 | 350851 | 910255 | 212.00 | 4/21/2016 | 74.70 | | 73.51 | 70.65 | | (1.19) | (4.05) |
| Woodruff | 06N01W13ADC1 | 350827.39 | 910246.74 | 212.00 | 4/21/2016 | 75.21 | | 70.11 | 66.80 | | (5.10) | (8.41) |
| Woodruff | 08N01W12CDA1 | 351932 | 910310 | 225.00 | 4/21/2016 | 78.31 | | 77.89 | 72.90 | | (0.42) | (5.41) |
| Woodruff | 07N01W12BCB1 | 351445 | 910328 | 222.00 | 4/21/2016 | 70.89 | | 68.43 | 65.30 | | (2.46) | (5.59) |
| | | | | | | | | | | | | |
| | | | | | | | **Declines/Wells:** | | | | **7/7** | **7/7** |
| | | | | | | | **Average Change:** | | | | **(2.41)** | **(5.81)** |
| | | | | | | | | | | | | |
| | | | | | | | **Total Declines/Wells:** | | | **79/163** | **83/194** | **64/168** |
| | | | | | | | **Total Percent Declined:** | | | **48.5** | **42.8** | **38.10** |
| | | | | | | | **Total Avg Change:** | | | **(0.59)** | **1.80** | **5.61** |