Arkansas Ground Water Protection and Management Report for 2007



January 2008

### **STATE OF ARKANSAS**

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## ACKNOWLEDGEMENTS

Special thanks to:

Tony Schrader, Greg Stanton, Terry Holland, John Czarnecki and John Terry of the United States Geological Survey Water Resources Division, Little Rock, Arkansas.

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### **ABSTRACT**

The Arkansas Ground Water 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 ground-water protection and conservation programs administered by the ANRC during the year 2007; including water-level monitoring, the development of water-quality standards, studies of water use trends, and administration of the Arkansas Water Well Construction Commission program. This report covers water level data from the Spring of 2006 to the Spring of 2007, as well as other ground-water activities through the end of 2007. The general trend in Arkansas' long-term water-level change is that the ground-water levels are declining in response to continued withdrawals at a rate which is not sustainable. Based on 2005 water use data, approximately 44 percent of the current alluvial aquifer pumpage, and 52 percent of the Sparta/Memphis aguifer pumpage 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 ground water and excess surface water in a manner that brings about the wise and sustainable use of our valuable water resources.

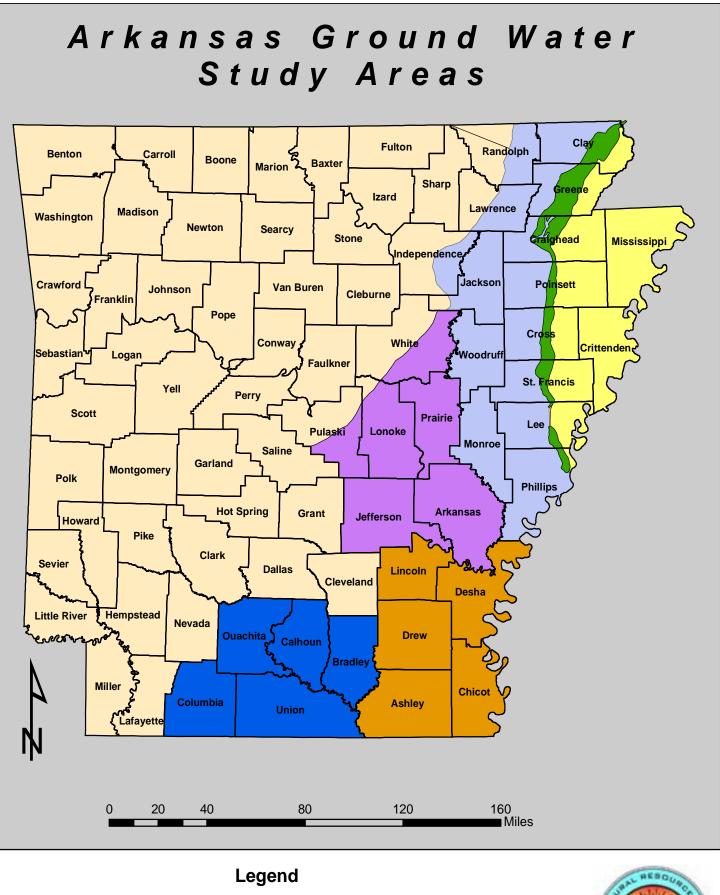
#### **INTRODUCTION**

This annual ground-water 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 ground-water protection and management program, water-quality standards activities, the Arkansas Water Well Construction Commission administrative program, and water use studies. This report and all programs described herein are built on a strong cooperative program with other appropriate State, Federal, and local water resources agencies. Some of the programs described in this report are partially funded through federal grants from Region VI of the Environmental Protection Agency.

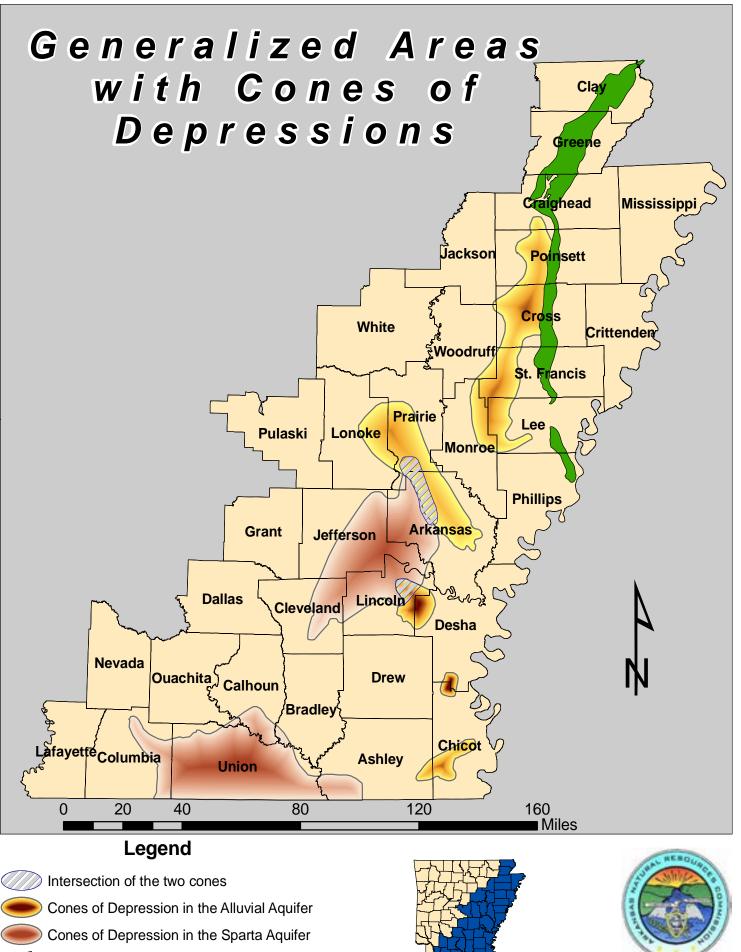
Each spring approximately 700 wells are monitored in the alluvial aquifer resulting in the largest number of water level measurements for any one aquifer in the state. This number will vary from year to year depending on the resources available. There are approximately 350 wells that are monitored for 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. Hydrologic data is collected statewide, however resources are focused on study areas where water-level declines and water-quality degradation have been observed historically.

The rainfall, or lack thereof, is taken into account each monitoring period to observe the change of water levels during times of drought or excess rainfall. The rainfall total for this monitoring period was almost exactly the yearly average of 49 inches statewide.

Long-term water-level data collected over a 25-year period indicate a decline of 0.8 feet per year in the Sparta-Memphis aquifer (USGS, 2004-5055), and 0.3 feet per year in the alluvial aquifer over a 24 year period (USGS, 2006-5128). Such long-term data is valuable in revealing water-level change trends that can be masked by short-term climate variations and local pumping rates. 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 are depressions in the potentiometric surface, and occur in both the alluvial and Sparta/Memphis aquifers. (Fig. 2) Water- level declines are consistently observed in areas where water use is







Crowleys Ridge

**County Boundaries** 

highest, such as portions of the Grand Prairie area, and in the Cache study area west of Crowley's Ridge.

Other programs are focused on the core Nonpoint Source Water-Quality Program, the Section 106 water-quality data management and GIS activities, and the administration of the Arkansas Water Well Construction Commission Program.

Water quality data collected by the USGS in 2006 showed wells with an increased specific conductance (>/= 1,000 microsiemens/cm) in the alluvial aquifer in Arkansas, Prairie, Craighead, and Chicot Counties. (Schrader, T.P., 2006) An increase in the level of specific conductance indicates an increased level of dissolved solids in the ground water. In certain areas these dissolved solids are chlorides leading to the ground-water becoming unsuitable for particular irrigation purposes. This trend may indicate saline water encroachment associated with the development of cones of depression.

During 2007, the ANRC staff continued to work on statewide water quality standards. This task will build on the State's existing water resources programs and agency infrastructure of Federal and State agencies. Early emphasis is on coordination between agencies and programs concerning data as well as agency infrastructure, considerations on the variability of water-quality within aquifers over distance, and aquifer classification and water use trends.

Arkansas is withdrawing ground water from the alluvial and Sparta 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. Water–level data in this report indicates that the alluvial and Sparta aquifers in the Cache Study Area meets critical area criteria for saturated thickness, water-level declines, sustainable yield, and water quality

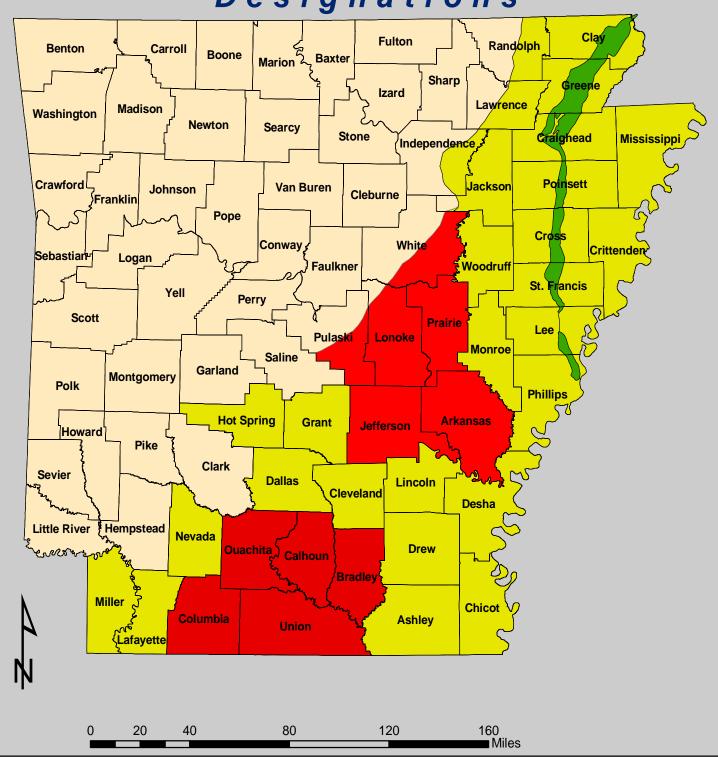
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## WATER POLICY

Water-resources policy in Arkansas was established in the Arkansas Water Plan, 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 States ground-water 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 very near 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 as well as the stream flow needs of the State's surface-water flow system if our water resources are to be protected for future generations to utilize and enjoy. The ANRC advocates that the State move towards a sustainable yield pumping strategy through conservation utilizing critical ground water area designation wherever needed to focus resources and minimize water-level declines. Designation as a Critical Ground Water Area brings about enhanced tax credits for conservation activities, focuses educational programs, and sets the area as a priority for possible federal programs and funding.

# Critical Ground Water Designations



## Legend

Crowleys Ridge
 Current Study Areas
 Current Critical Areas
 County Boundary

South Arkansas Study Area for Sparta in 1996

Grand Prairie Study Area for Sparta & Alluvial in 1998



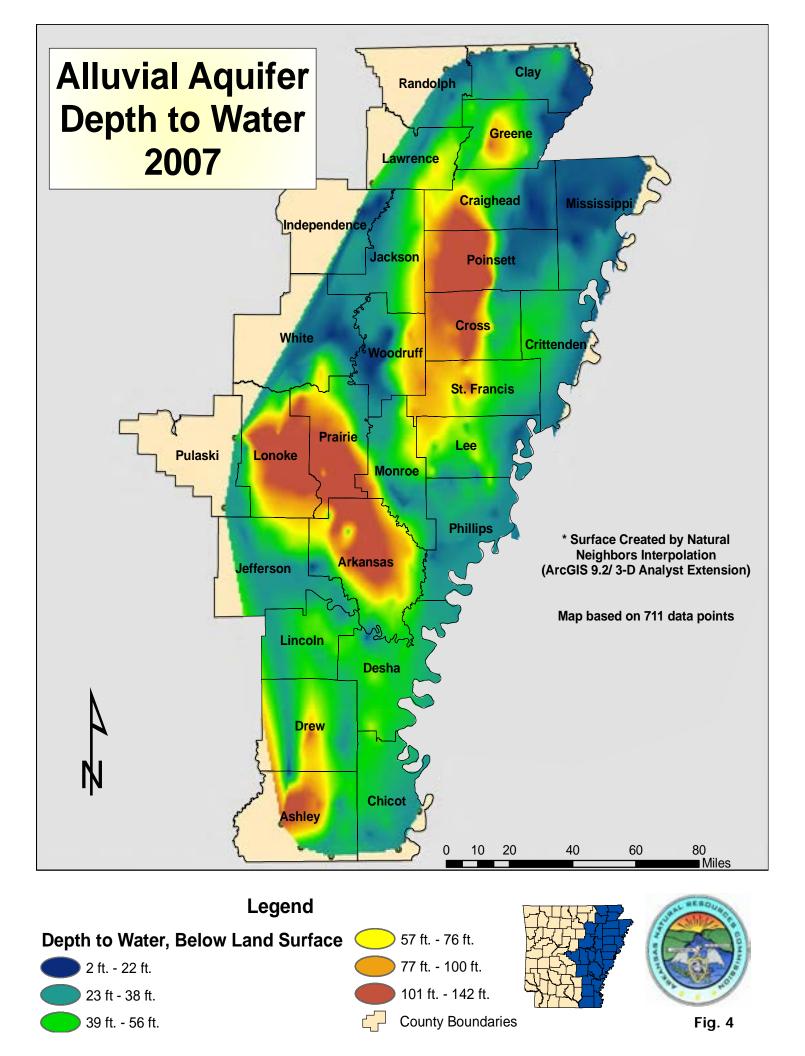
## Hydrogeology

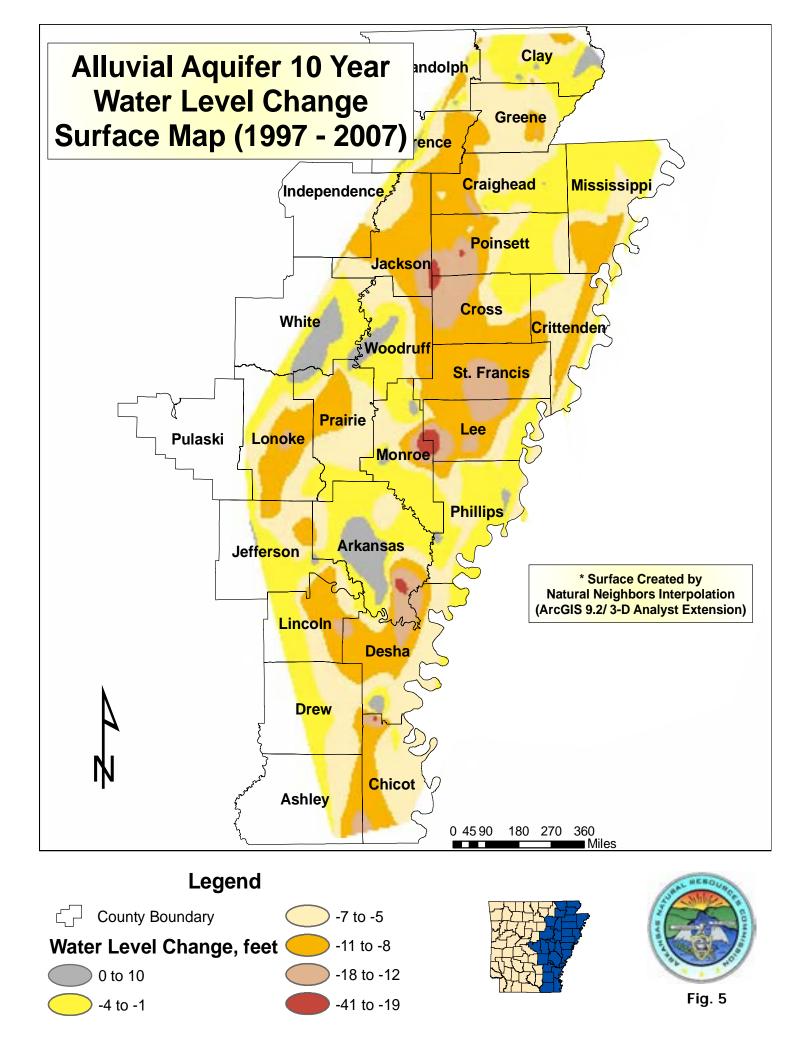
### Alluvial Aquifer

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.

Mostly due to the use of ground water for agriculture in the region, the aquifer has been pumped in ever-increasing amounts since records were kept from the early 1900's. In 2005 Arkansas had ground water withdrawals estimated to be 7,509.30 million gallons per day (Mgal/d). That is a 97.1% increase from the amount used in 1985, and a 509.9 % increase since 1965. (Holland, T.W. 2004).

In 2005 there was 7,252.82 Mgal/d pumped from the alluvial aquifer. The estimated sustainable yield for the alluvial aquifer is 2,700 Mgal/d, leaving an unmet demand of 4,552.82 Mgal/d (63%). Ground water furnishes 63% of the state's total water use, and 95% of the ground water used comes from the alluvial aquifer. Agriculture accounts for 96% of the total water that is pumped from the alluvial aquifer. Figures 4 and 5 are illustrations of the 2007 depth to water, and 10-year water level change map. 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 (Ackerman, 1996).

There were 620 alluvial aquifer wells monitored for water-level change in both 2006 and 2007, 407 (65.6%) of these had a decline in the static water level. The overall water-level change was -0.44 ft. The 2006 precipitation for Arkansas was approximately 49.39 inches, which is right on the average of 49.19 inches. Of 516 alluvial aquifer wells monitored in both 2002 and 2007, 383 (74.2%) of these had declining static water levels. Over a 10-year period of time from 1997 to 2007, 224 of 289 wells (77.5%) monitored showed declines in the alluvial aquifer. The average change over the entire aquifer during the 2006-2007 monitoring period was -0.44 feet, the 5-year average change was -2.40 feet, and the 10-year average change was -7.46 feet respectively. As in last year's report, the greatest 10-year declines were observed in the Cache Study Area (-8.73 feet) and the Boeuf-Tensas Study Area (-8.22 feet). Appendix A is a table of specific water level monitoring data for the alluvial aquifer. Appendix B is a series of selected hydrographs for alluvial aquifer wells.

## 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

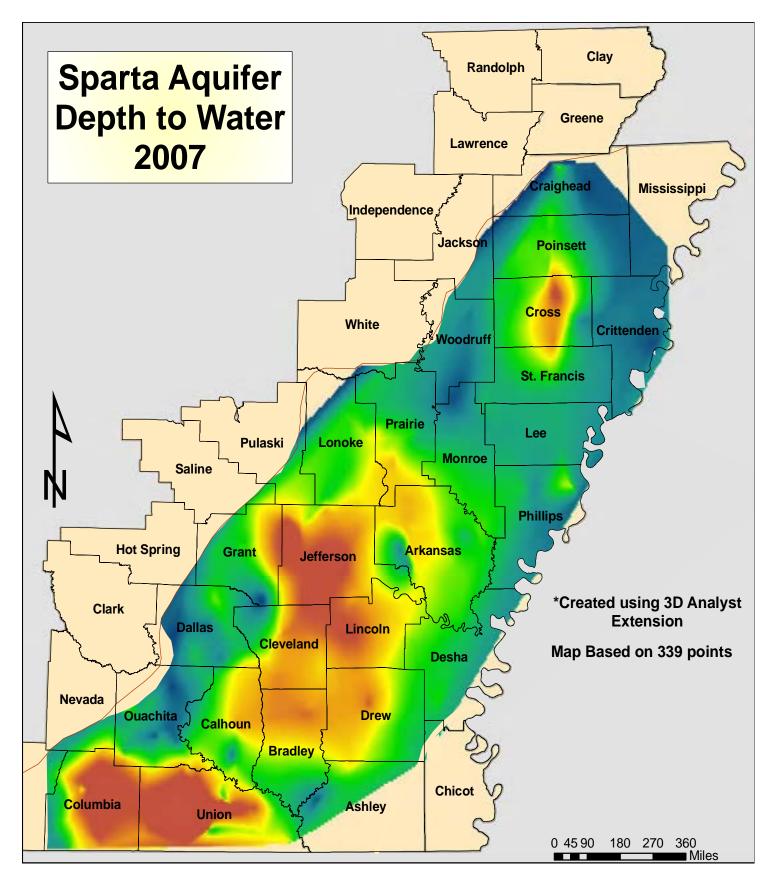
silt, clay, shale, and lignite, which are found in lenses throughout the unit. Lithologically, it varies considerably both vertically and laterally. Glauconite, a green hydrous potassium iron silicate mineral, is sometimes found in sand lenses in the upper levels of the aquifer, hence the name "Greensand".

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.

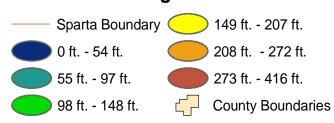
Ground-water levels were collected from 260 water wells in the Sparta/Memphis aquifer throughout the south and east portions of Arkansas in 2006 and 2007. One hundred and forty-five of those wells (55.7%) showed declines in the static water level. The average change over the entire aquifer during the 2006-2007 monitoring period was -0.06 feet. During the monitoring period from 2002 to 2007, 219 wells were monitored for water-level change, with 127 of these wells (58.0%) showed a decline in static water levels during this time. During the 10-year monitoring period 179 wells were monitored, with 134 (74.8%) of these wells showing declines. Appendix C is a table of specific water level monitoring data for the Sparta/Memphis aquifer. For the Sparta/Memphis aquifer the USGS Conjunctive Use Optimization Model estimates that only 50.7 percent of the 2005 withdrawal of 169.94 Mgal/d is sustainable.

Data from as far back as 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 (Fig. 6). 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 169.94 Mgal/d in 2004, an increase of 50.7 percent. The most recent significant increase in water use from the Sparta 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

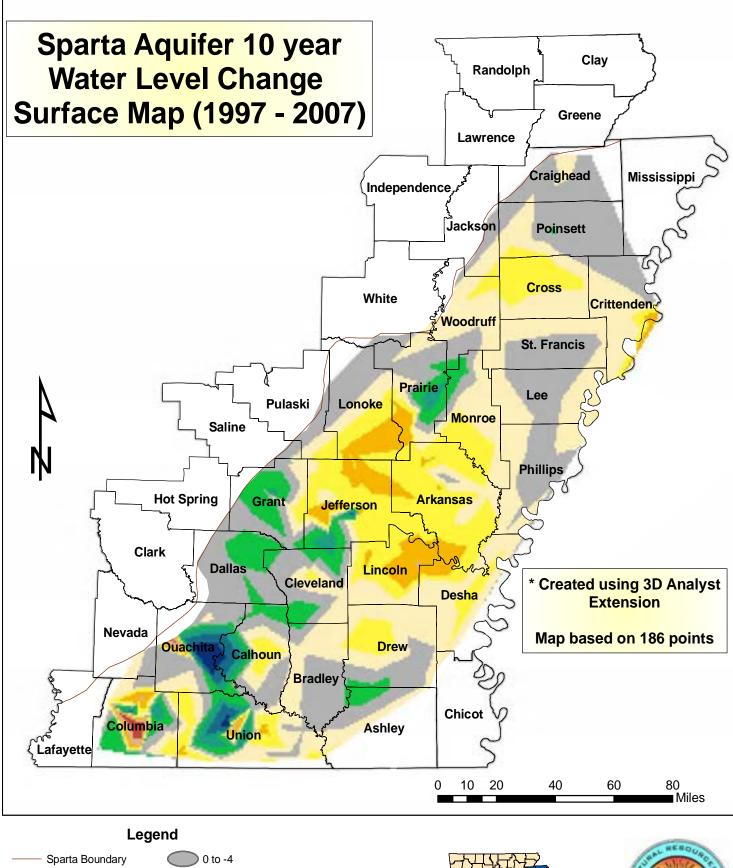


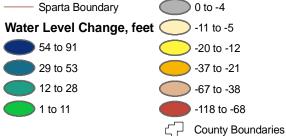
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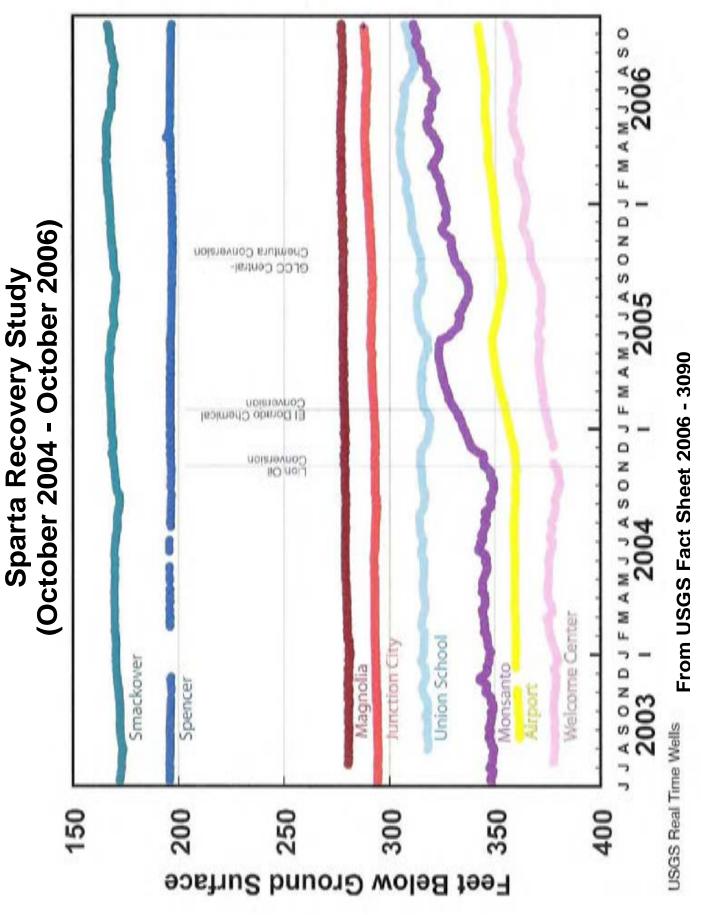












significantly fewer declines, as well as some rebound in water levels in some areas. This can be seen in figure 8, a graph of eight wells in the USGS Sparta Recovery Project. Appendix D is a series of hydrographs for Sparta/Memphis aquifer wells in Arkansas.

### **GROUND-WATER LEVELS AND WATER-LEVEL CHANGE**

#### MONITORING

The United States Geological Survey (USGS), in cooperation with the Arkansas Natural Resources Commission (ANRC), the Arkansas Geological Commission (AGC), and the Natural Resource Conservation Service (NRCS), monitor wells throughout the entire state for general ground water quality as well as to record water levels. In addition, several agencies continually monitor wells throughout the state in an effort to detect significant changes and/or trends in ground-water levels and ground-water quality. The ANRC has recently added to this monitoring network by constructing 44 wells throughout the eastern part of the state used exclusively for monitoring purposes, with more to be added in the near future. (Fig.38) All water level data collected by the USGS and ANRC is collected in accordance with USGS data collection protocol.

Water-level measurements are made each spring for a designated portion of the monitoring network of approximately 1,200 wells statewide. A schedule of monitoring has been established based upon existing funding and the ANRC's management and protection responsibilities as mandated by the Arkansas General Assembly. The monitoring schedule has been set up to obtain data annually from the alluvial and Sparta/Memphis aquifers. Other aquifers with less usage are measured at least once every five years. Measurements of water levels in the alluvial and Sparta/Memphis aquifers are taken each spring to obtain as close to true static water level data as possible. This allows the water level data to be the least affected by summer pumping. Measurements in the alluvial aquifer are obtained each spring and fall by the NRCS and are helpful in evaluating the zones of drawdown that result from seasonal pumping for

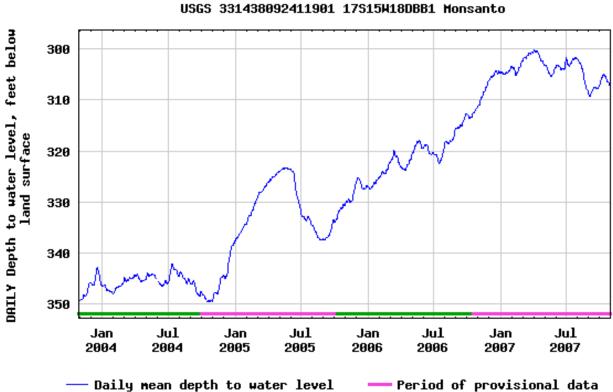
irrigation of crops. A table of measurements taken in the spring and fall from the same wells is included as Appendix E. This table is useful in showing the amount of drawdown and rebound from specific wells during the pumping season.

#### SOUTH ARKANSAS CRITICAL GROUND-WATER AREA

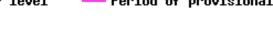
The South Arkansas Critical Ground-Water Area is composed of the Sparta Aquifer in Bradley, Calhoun, Columbia, Ouachita, and Union Counties. In 1996 this area was the first to be designated as a critical ground water area for the Sparta aquifer pursuant to the Arkansas Groundwater Protection and Management Act of 1991.

Continued monitoring of Sparta aquifer ground-water levels show that some ground-water levels in this region have stabilized or risen, while others continue to decline. During the 2006-2007 monitoring period, the ground-water level showed an average change of +6.59 feet in Union County, +2.11 feet in Ouachita County, -1.45 feet in Calhoun County, -10.57 feet in Bradley County, and +2.38 feet in Columbia County respectively. The South Arkansas Study Area as a whole had an average change of +3.27 feet during the 2006-2007 monitoring period, with only 30 of the 95 wells monitored showing declines (Fig.9). In 1998 the average change for Union County was -22.14 feet, in 1999 -4.40 feet, 2000 +0.62 feet, 2001 -1.25 feet, 2002 +3.21 feet, 2003 +1.14 feet, 2004 -0.58 feet, 2005 -1.54 feet, 2006 +5.82, and 2007 +6.59 feet respectively. The diminishing declines in average change seem to indicate that the education, conservation, and development of surface water from the Ouachita River in Union County have made an impact on ground-water levels. The USGS reports that the water levels have risen in all eight of the Sparta Recovery wells since the summer of 2003. The water levels have risen in specific wells from +1.60 feet in the "Spencer" well, to +43.9 feet in the "Monsanto" well. The "Monsanto" well is a good example of the recovery because it is located near the center of the cone of depression in this area. The USGS real-time hydrograph of this well can be seen below.

Since the lowest water level recorded in this well in October 1999 (-196.81 msl) to the level recorded in May of 2007 (-118.40) the depression has rebounded 78.41 feet, or approximately 25% of the total drawdown since 1922. (Schrader, 2007)

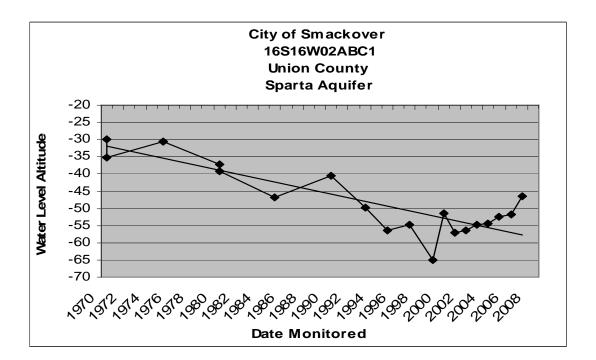


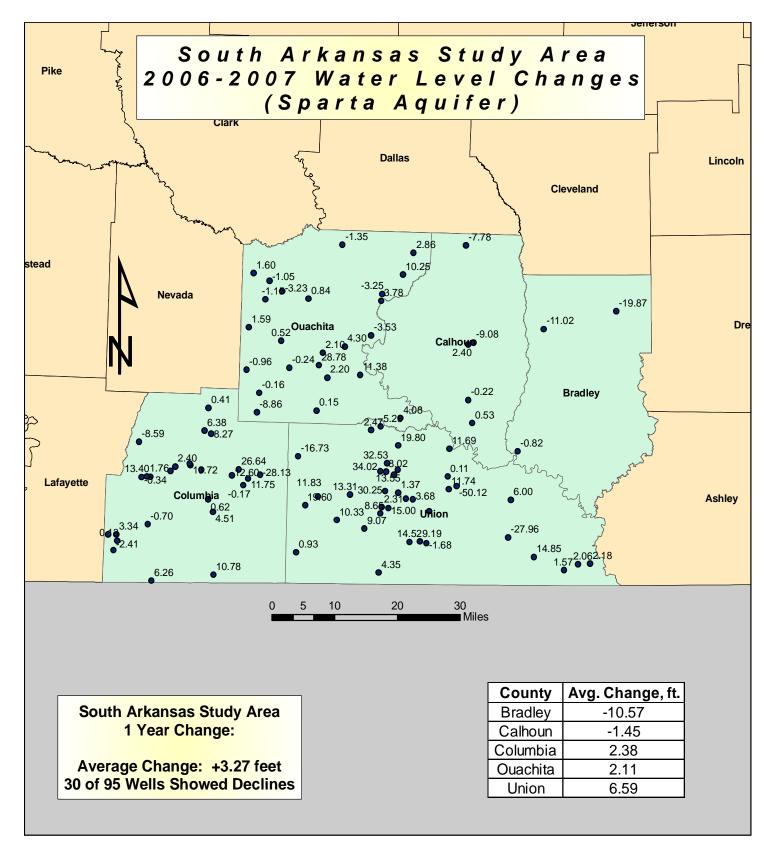
Period of approved data



During the 5-year monitoring period, from 2002 to 2007, the South Arkansas Study Area had an average change of +5.38 feet. Eighty-five wells were monitored over this time, with 39 of them showing a decline in static water levels. Three of the 5 counties in the study area showed a positive average change in their respective water levels. Ouachita County had an average change of -1.62 feet, Union +12.33 feet, Calhoun -0.14 feet, Bradley +2.92 feet, and Columbia +4.62 feet respectively (Fig. 10).

Though the trend of water level increases in the South Arkansas Study Area in encouraging, many of the wells in the area still show the potentiometric surface below the top of the formation. This criteria alone is enough for the study area to keep the designation of a Critical Ground-Water Area. The USGS ground-water flow models indicate that the withdrawals in Union County must be reduced to 28 percent of the 1997 pumping rate to maintain water levels at or above the top of the Sparta Sand. (Hays, 2000)





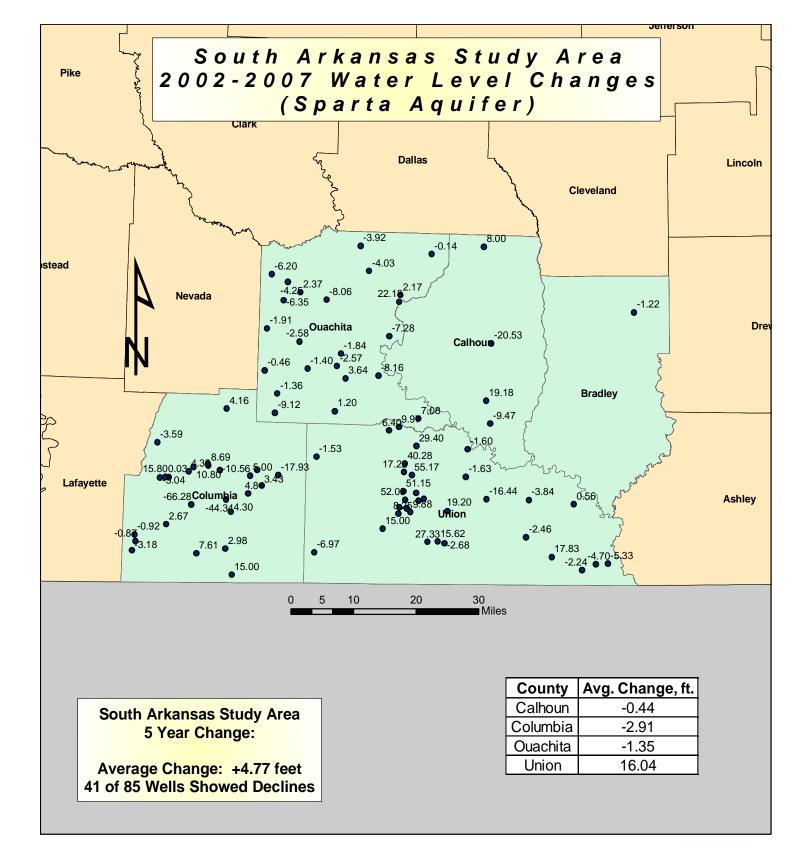
Wells



South Arkansas Study Area







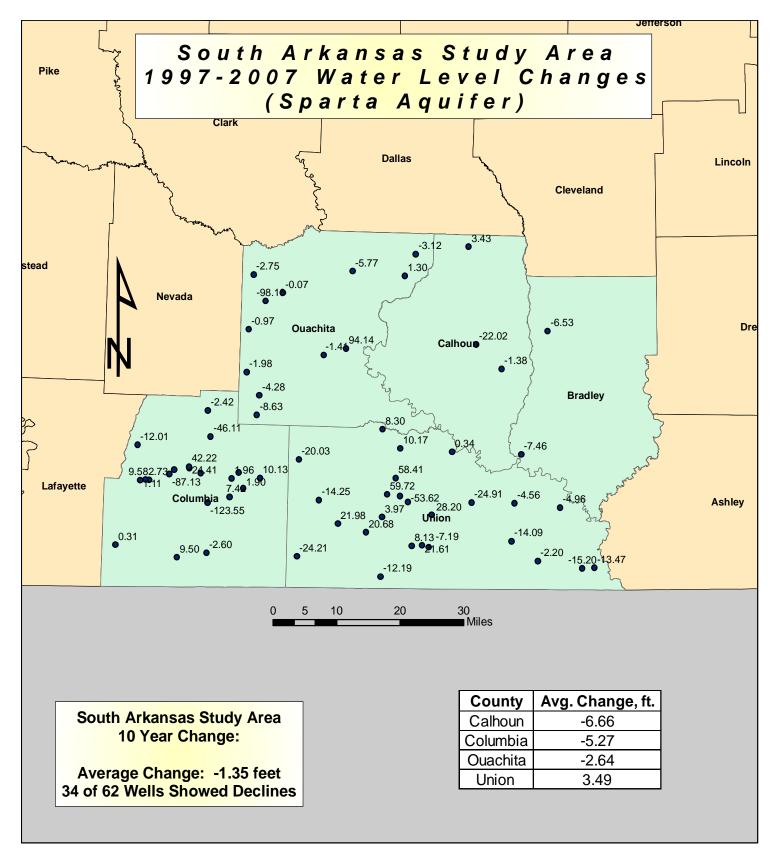
Wells



South Arkansas Study Area







• Wells



South Arkansas Study Area





#### GRAND PRAIRIE CRITICAL GROUND-WATER AREA

The designation "Grand Prairie" varies according to authors, but is commonly used to designate the area bounded on the south and west by the Arkansas River and on the north and east by the White and Little Red Rivers. (Ackerman, 1996) (Fig.1) This area was designated as a critical ground-water area for the alluvial aquifer and for the Sparta/Memphis aquifer in July 1998. Since designation, water levels have continued to decline throughout much of the Grand Prairie in both the alluvial and Sparta/Memphis aquifers.

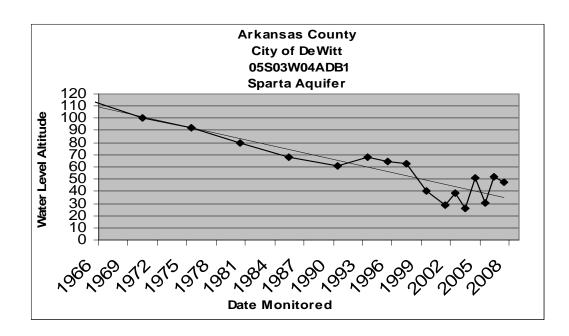
During the 2006-2007 monitoring period there 73 wells monitored with 53 (72.6%) showing average declines in the Sparta/Memphis aquifer throughout the counties in this study area. Every county in this study area had an average decline in static water levels during this monitoring period. Prairie County had an average change of -0.70 feet, Jefferson County -2.60 feet, Lonoke County -1.95 feet, and Arkansas County an average change of -1.38 feet. The average change for the entire study area for this time was -1.60 feet. (Fig.12)

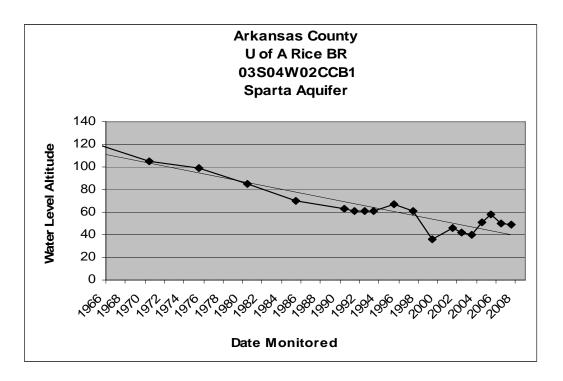
During the 5-year monitoring period from 2002 to 2007 Jefferson County had an average change of -3.27 feet, Lonoke County -4.72 feet, Arkansas County +4.74 feet and Prairie County -6.65 feet. Although some counties will show short- term increases in water levels, even in areas of significant historical decline, the long-term effect of over-use can be seen in the hydrograph below. The entire Grand Prairie Study Area averaged a +0.20 foot change during this 5-year period in the Sparta/Memphis aquifer, with 33 of 62 wells monitored showing declines. (Fig.13)

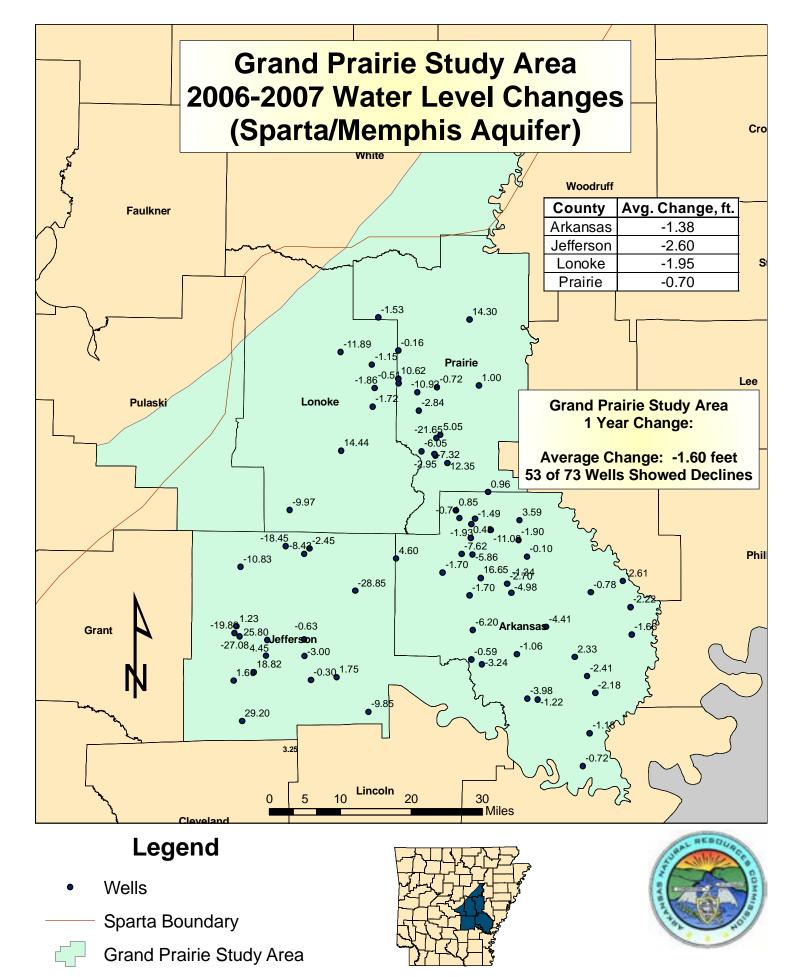
Over the 10-year period from 1997 to 2007 the Sparta/Memphis aquifer has shown an average decline of -14.80 feet. As seen in figure 14 all counties in the study area show an average decline significantly greater that 1-foot per year. Prairie County had an average change of -13.73 feet, Lonoke -14.11 feet, Jefferson -14.86, and Arkansas – 15.36 feet, respectively.

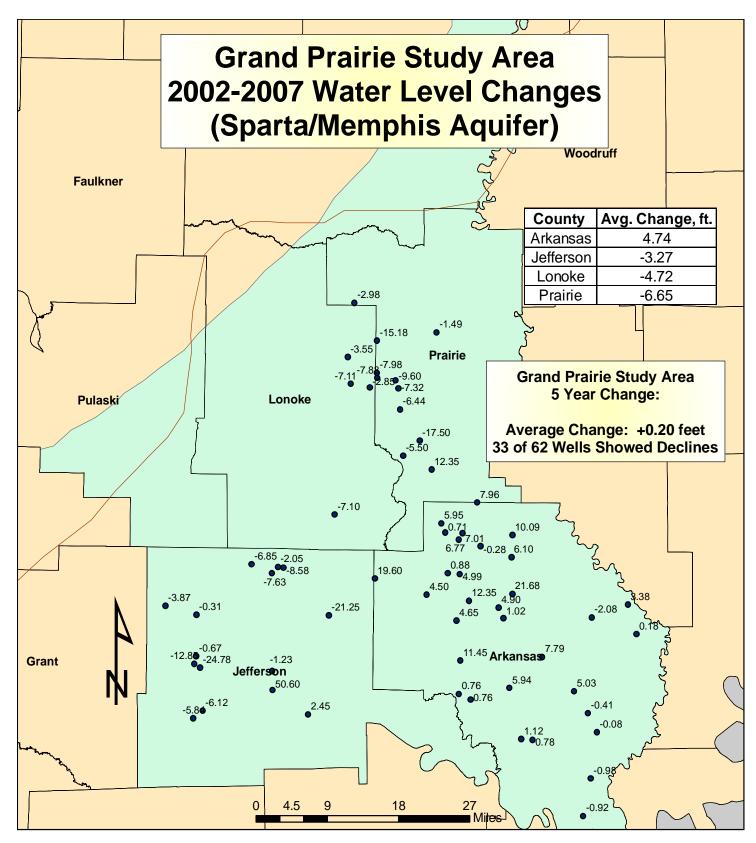
31

Sparta aquifer ground water withdrawals in Arkansas County have increased from an estimated 20.3 mgd in 1970 (Halburg, 1972) to a reported water use of 36.03 Mgal/d in 2005, an increase of 56.3% over this time period.









• Wells

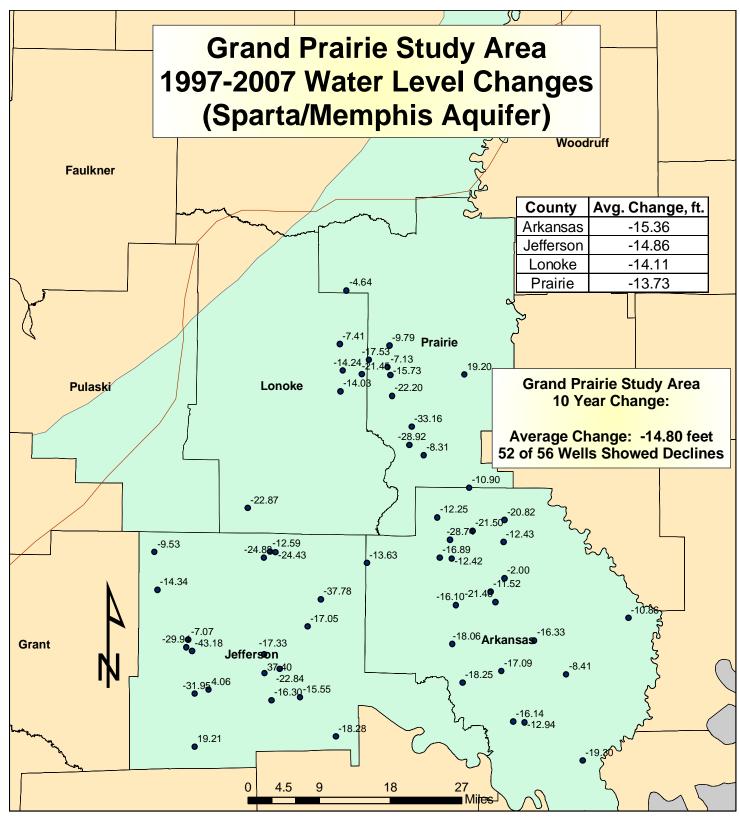


Sparta Boundary









• Wells



Sparta Boundary

Grand Prairie Study Area



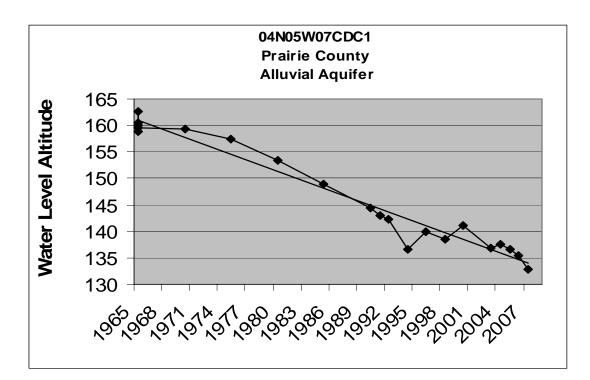


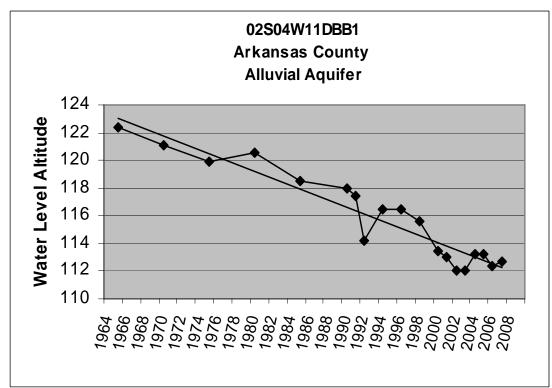
In the alluvial aquifer, during the 2006-2007 monitoring period for the Grand Prairie Critical Ground Water Area, Pulaski County had an average change of +3.50 feet, White County +1.70 feet, Prairie County -0.40 feet, Lonoke County -0.46 feet, Jefferson county +0.28 feet, and Arkansas County -0.61 feet, respectively. The average change for the entire study area for 2005-2006 in the alluvial aquifer was -0.10 feet, with 85 of the 140 wells (60.7%) monitored showing declines. (Fig.15)

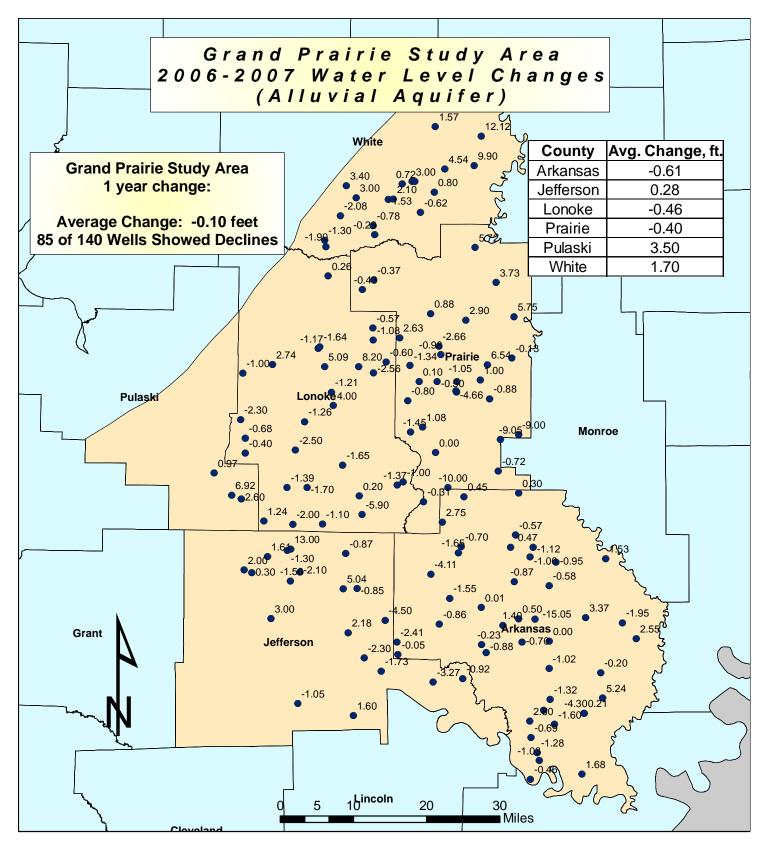
During the 5-year monitoring period from 2002 to 2007, some counties showed declines in average ground water levels, while others showed positive average changes in the alluvial aquifer. White County showed an average change of +1.76 feet, Arkansas County -1.01 feet, Jefferson County -1.27 feet, Prairie County -2.05 feet, and Lonoke County -1.62 feet respectively. The Grand Prairie Study Area had an average decline -1.17 feet during this 5-year period for the alluvial aquifer, with 79 of the 131 wells (60.3%) monitored showing declines. (Fig.16)

From 1997 to 2007 the alluvial aquifer in the Grand Prairie Study Area had an average change of -3.57 feet, with 24 of 32 (75.0%) wells monitored showing declines. Changes during this 10-year period ranged from -7.04 feet in Lonoke County, to +5.81 feet in White County. Arkansas County had an average change of - 1.33 feet, Jefferson County -5.63 feet, and Prairie County showed an average decline of -5.67 feet. (Fig.17)

For the alluvial aquifer in the Grand Prairie Study Area the USGS Conjunctive Use Optimization Model indicated that the ground-water use in this area is substantially more than is sustainable. Based on the 1997 pumping rates, Jefferson County could sustain 76% of the counties actual pumping rate, Prairie County 40.8%, Arkansas County 35.8%, and Lonoke County 31.4% respectively. (Fig.46) The Grand Prairie Irrigation Project, once in place, is expected to significantly help reduce these counties' unmet demands for irrigation.



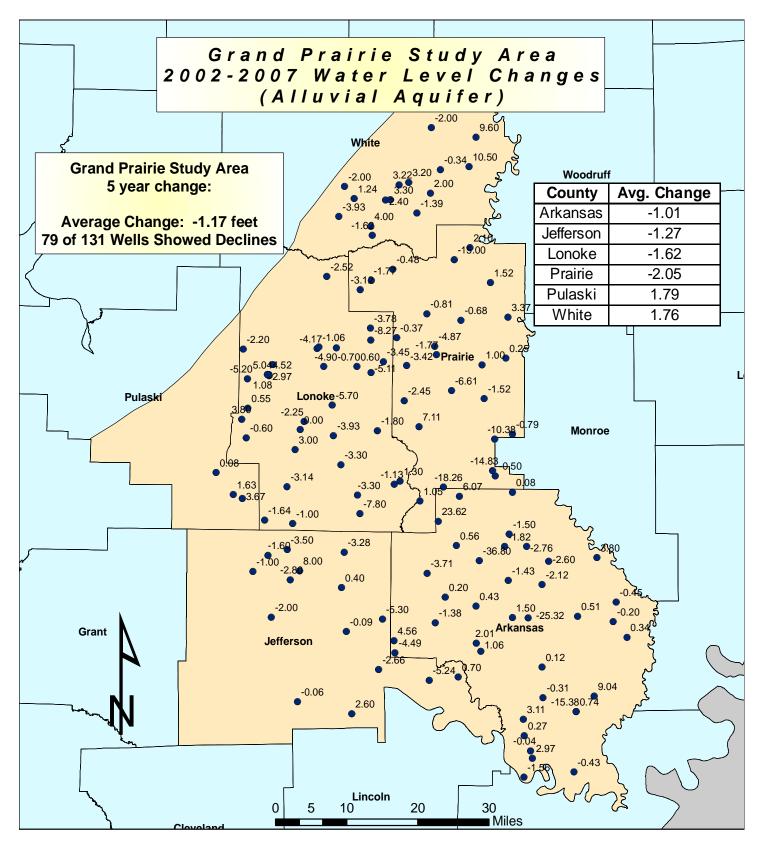




Wells Grand Prairie Study Area







Legend

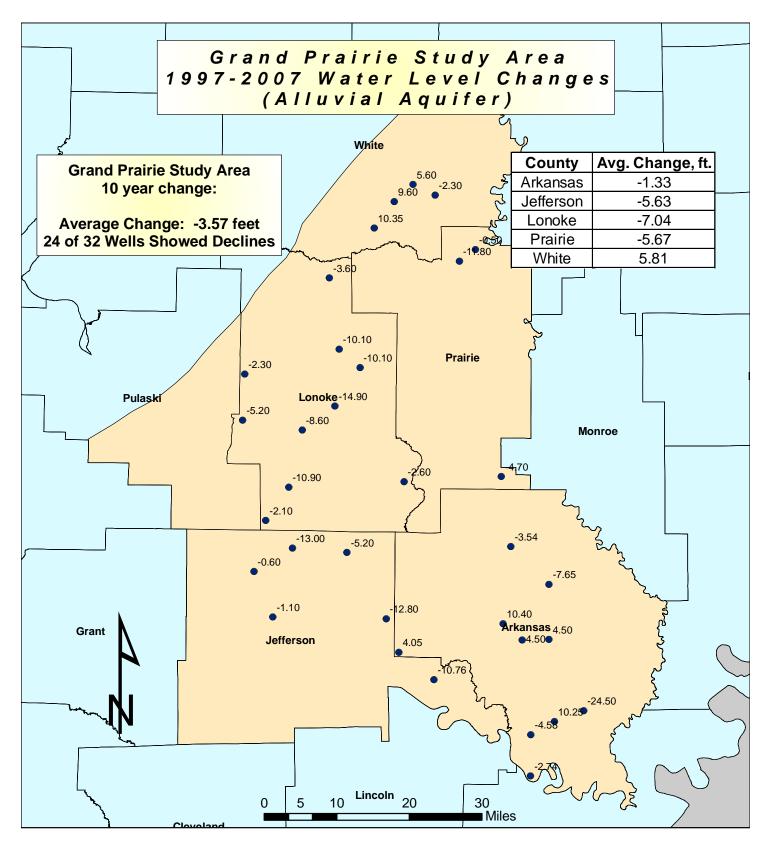
Wells



Grand Prairie Study Area







Wells
 Grand Prairie Study Area





#### CACHE STUDY AREA

The Cache Study Area is defined as the 7300 square mile region between Crowley's Ridge to the east, the Fall Line to the west, the state line to the north, and the White River to the south. (Ackerman, 1996) This study area includes portions of Craighead, Poinsett, Cross, St. Francis, Lee, Phillips, Monroe, Woodruff, Jackson, Lawrence, Greene, and Clay Counties. (Fig.1)

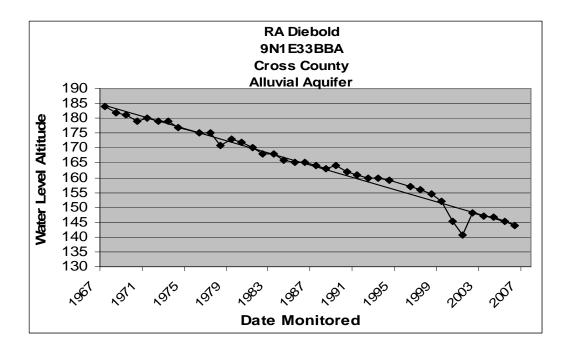
Monitoring of the alluvial aquifer in this study area from 2006 to 2007 showed significant change with the entire study area having an average change of -0.32 feet. One hundred and seventy one of the 263 wells monitored (65%) had a decline in static water level. During this same time Craighead County showed an average change of -0.72 feet, Cross County -0.55 feet, Greene County -2.60 feet, Independence County +2.68, Jackson County +1.43, Lawrence County -2.15, Lee County -1.54, Monroe County +0.31, Poinsett County -0.95, Randolph County +2.00, St. Francis -1.30 feet, Woodruff County -0.03, Phillips County -0.72 feet, and Clay County +2.53 feet, respectively. (Fig.18)

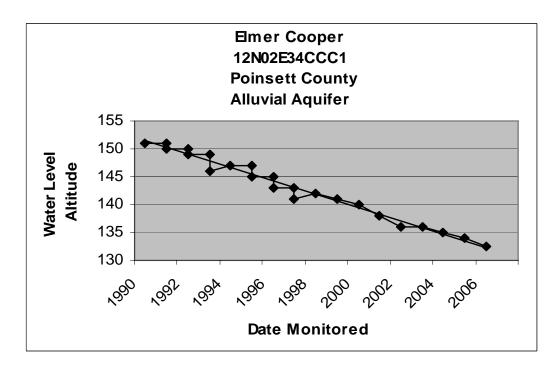
The alluvial aquifer in the Cache Study Area was also evaluated for change in water levels for a 5-year time period from 2002 to 2007. For this period all but two counties showed declines in static water levels. Greene County had an average change of -4.45 feet, Clay County +1.35 feet, Craighead County -3.76 feet, Cross County -3.13 feet, Independence County -3.08 feet, Jackson County +0.22 feet, Lee County -3.43 feet, Monroe County -1.58 feet, Phillips County -3.81 feet, Poinsett County -6.78 feet, Randolph -3.56 feet, St. Francis County -3.22 feet, and Woodruff County -1.00 feet, respectively. The entire Cache Study Area showed an average change of -2.97 feet in the alluvial aquifer during this 5-year monitoring period. Out of the 220 wells monitored, 183 (83.2%) of these showed average declines. (Fig.19)

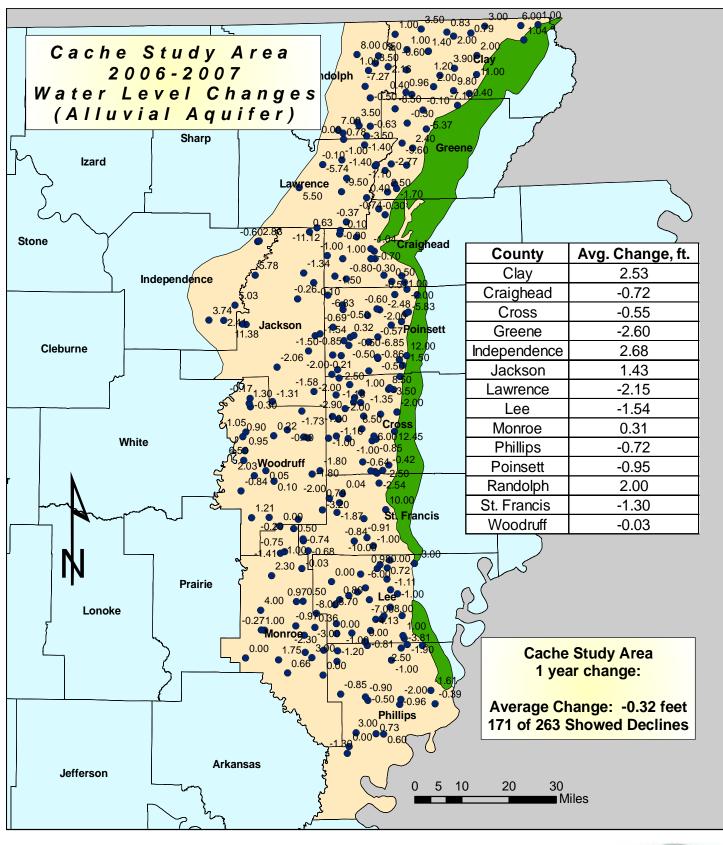
Average change was also compared in the alluvial aquifer for a 10-year timeframe for the Cache Study Area. Of the 130 wells monitored, 119 of these (91.5%) showed an average decline. Every county in the study area showed an average decline in static water levels once again for this time period. Phillips County had an average change of -3.83 feet, Cross -12.34 feet, Craighead -9.93 feet,

Lawrence -7.35 feet, Lee -14.25 feet, Monroe -4.46 feet, Poinsett -12.97 feet, Randolph -5.97 feet, St. Francis -7.97 feet, Woodruff -5.04, and Clay County -5.08 feet respectively. The average change for the study area over this time was a decline of -8.73 feet. (Fig.20)

Based on the USGS's Conjunctive-Use Optimization Models of the Alluvial Aquifer sustainable yields were acquired based on the 1997 pumping rates. The percentage of the sustainable yield for each county in the model is shown in figure 46 and is based on the 2005 withdrawals. Water-use data shown in Table 2 is the reported use for 2005. Based on the reported water use for 2005, as well as the sustainable yields estimated from the USGS models, the percentage of water use that was sustainable in 2005 for each county in the Cache Study Area are as follows; Craighead County 63.3%, Cross County 24.8%, Greene County 52.3%, Independence County 42.5%, Jackson County 53.8%, Lawrence County 100%, Lee County 22.2%, Monroe County 62.4%, Phillips County 43.8%, Poinsett County 25.3%, Randolph County 61.7%, and St. Francis County 22.7% respectively. It should be noted that Clay County was "allowed" 100% of its 1997 pumping rate by the USGS model as part of the optimization. When the County's pumping rate went from 234.9 Mgal/d in 1997 to 466.06 Mgal/d in 2005, this dropped the sustainable yield to 50.4%. While the 234.9 Mgal/d in 1997 may not have been the maximum volume sustainable in this county, the model assigned it 100% sustainable as part of the optimization. This should be noted when taking into account the 50.4% sustainable figure for 2005. Another factor that should be considered is the hydrogeologic boundary that is Crowley's Ridge. Due to the separation of the alluvial aquifer by the ridge in some counties in the Cache Study Area, the sustainable yields may be even lower west of the ridge, as the total county volume of ground-water was taken into account for the 1997 and 2005 pumping rates.







• Wells

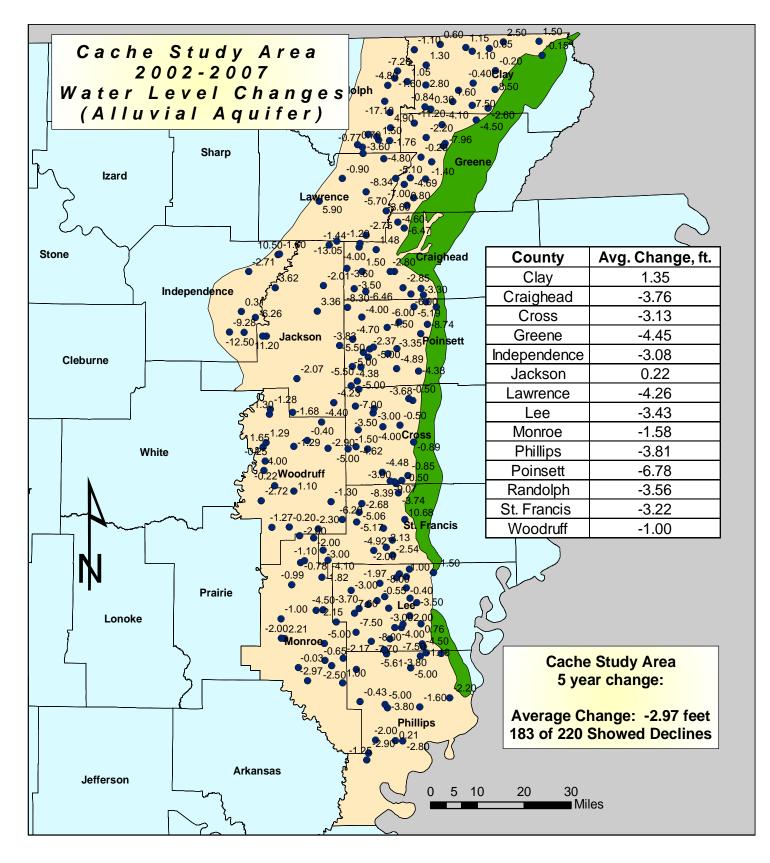


Crowleys Ridge









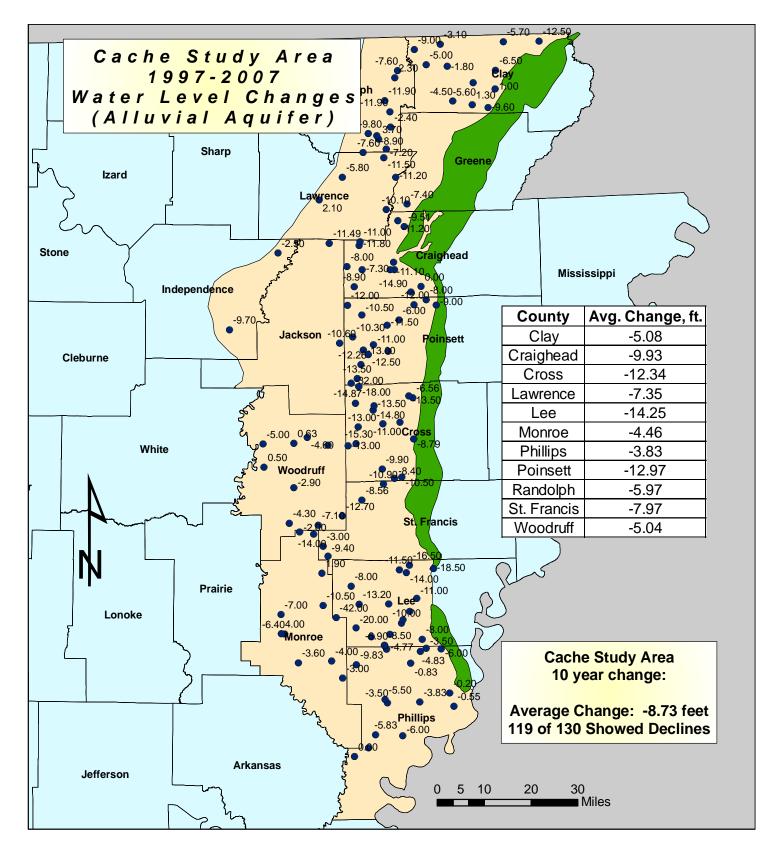
Wells

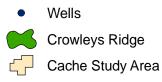


Crowleys Ridge Cache Study Area









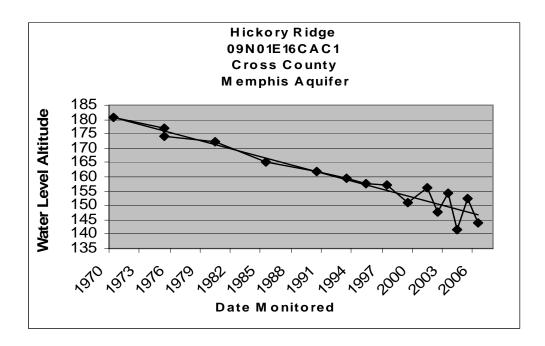


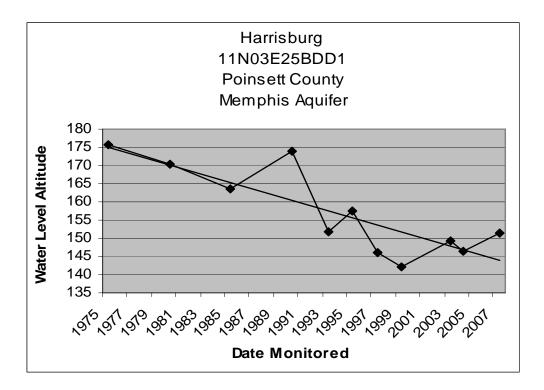


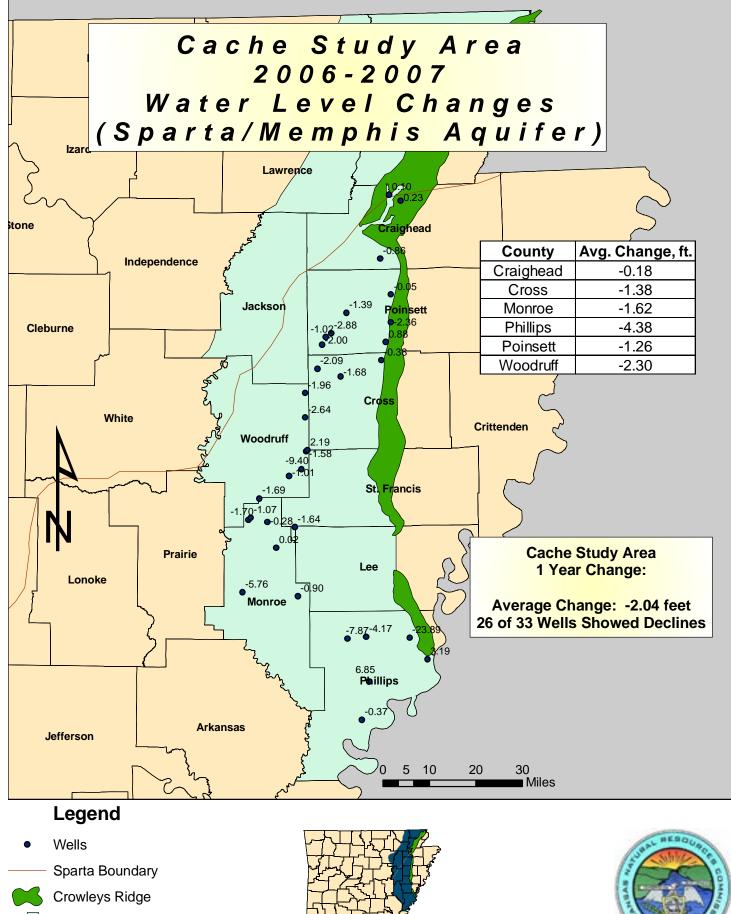
Monitoring of the Sparta/Memphis aquifer in the Cache Study Area from 2006 to 2007 shows that the study area had an overall average decline in static water level of - 2.04 feet. Although there are not as many irrigation wells in the Sparta/Memphis aquifer as there are in the alluvial aquifer in this study area, there has been an increase in recent years as the water level in the alluvial aquifer continues to drop. Twenty-six of the 33 wells (78.8%) monitored showed declines during this time period. The average change for the counties in this study area over the one-year period (2006-2007) were; Craighead County -0.18 feet, Cross County -1.38 feet, Monroe County -1.62 feet, Phillips County -4.38 feet, Poinsett County -1.26 feet, and Woodruff County -2.30 feet respectively. (Fig.21)

During the 2002 to 2007 monitoring period the Sparta/Memphis aquifer in the Cache Study Area had an average water level decline of -2.64 feet, with 20 of the 29 wells monitored (69.0%) showing decline. Woodruff County had an average change of -2.94 feet, Phillips County -2.99 feet, Poinsett County -0.68 feet, Monroe County -3.74 feet, Cross County -6.08 feet, and Craighead County +0.29 feet respectively. (Fig. 22)

Few wells were monitored in the Sparta/Memphis aquifer back in 1997, so that makes comparisons sparse for the 10-year change map as seen on figure 23. Of the 19 wells monitored from 1997 to 2007, 16 show declines (84.2%). Craighead County had an average change of -4.17 feet, Monroe County -4.71 feet, and Phillips County - 3.42 feet respectively. USGS Scientific Investigations Reports studying the potentiometric surface of the Sparta/Memphis aquifer show an expanding cone of depression in Poinsett and Cross Counties west of Crowley's Ridge.









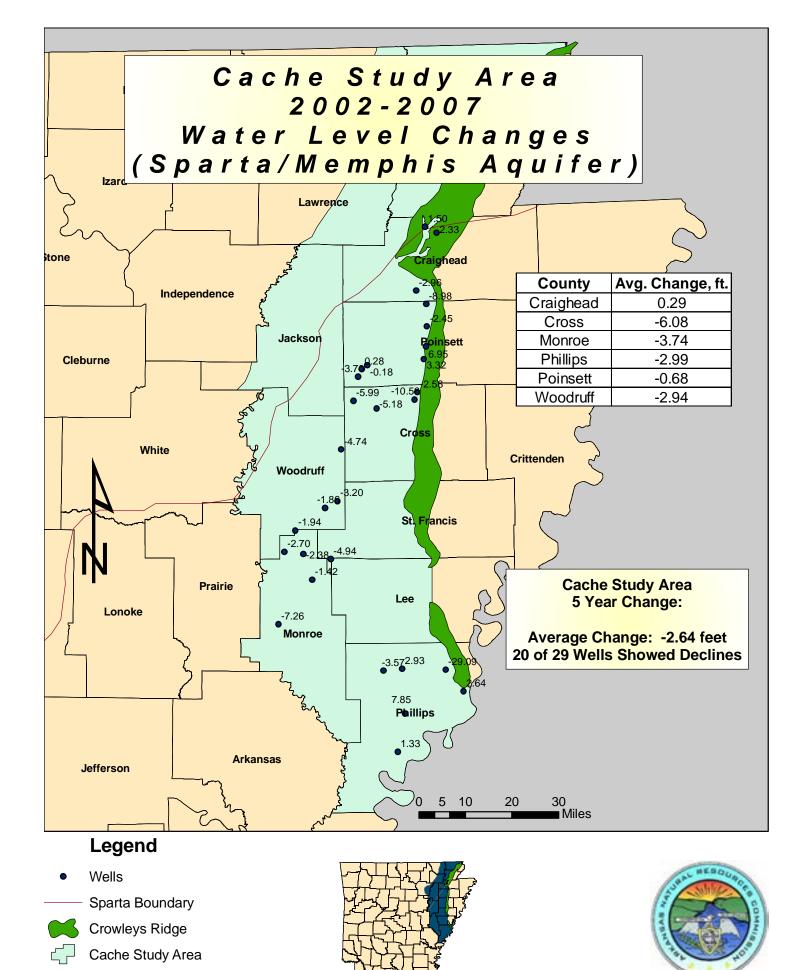
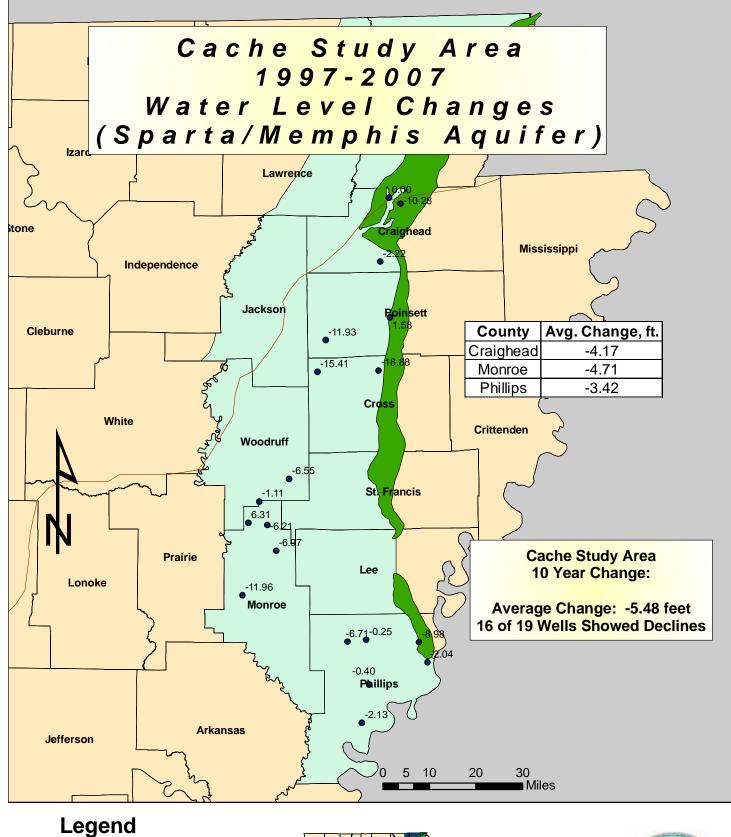


Fig. 22



- Wells
  - Sparta Boundary



- Crowleys Ridge
- Cache Study Area





#### **BOEUF-TENSAS STUDY AREA**

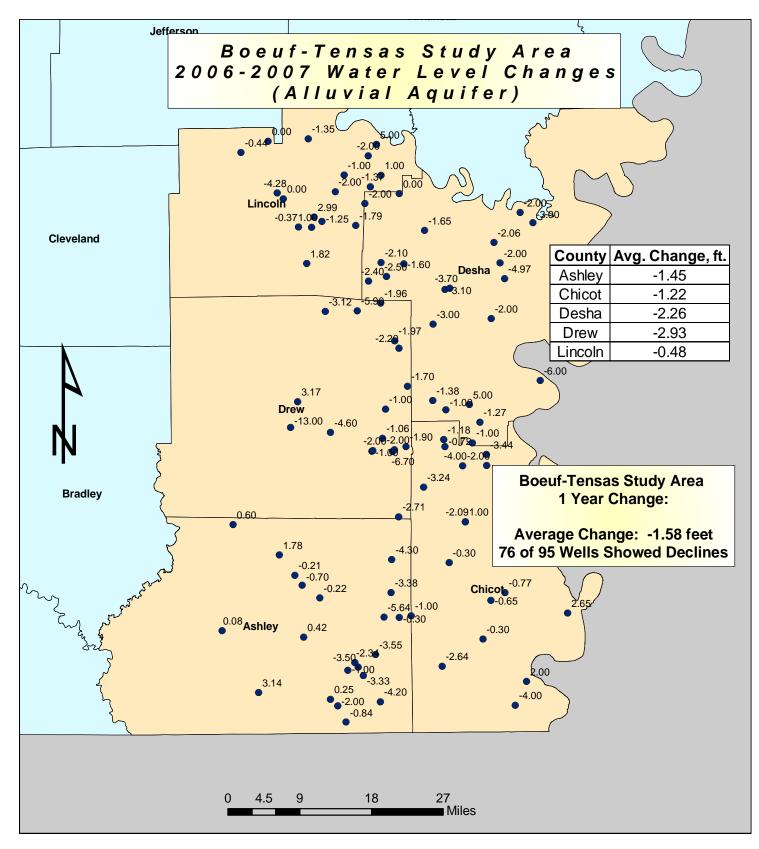
The Boeuf-Tensas study area in southeast Arkansas is comprised of Ashley, Chicot, Desha, Drew, and Lincoln Counties. This hydrologic basin extends into Louisiana but for the purposes of this study will be bounded by the Arkansas state line to the south.

The alluvial aquifer data in the Boeuf-Tensas Study Area for the monitoring period of 2006-2007 showed the entire study area having an average change of -1.58 feet, and 76 of the 95 wells monitored (80.0%) having declines in static water level. Lincoln County had an average change of -0.48 feet, Chicot County -1.22 feet, Desha County -2.26 feet, Drew County -2.93 feet, and Ashley County -1.45 feet respectively. (Fig.24)

During the 5-year monitoring period from 2002 to 2007 the study area had an average change of -2.97 feet in the alluvial aquifer, with 57 of the 71 wells monitored (80.3%) showing declines. Ashley County had an average change of -4.07 feet, Chicot County -1.76 feet, Drew County -3.41 feet, Desha County -3.65 feet, and Lincoln County -1.29 feet respectively. (Fig.25)

The data for the 10-year change in the Boeuf-Tenses shows Ashley County had an average change of -8.58 feet, Chicot County -10.20 feet, Desha County -5.45 feet, Drew County -6.14 feet, and Lincoln County -8.40 feet respectively. The entire study area showed an average change of -8.22 feet during this 10-year period in the alluvial aquifer with 30 of 31 wells monitored (96.8%) showing declines. (Fig.26)

Based on the USGS Conjunctive-Use Optimization Models of the Alluvial Aquifer sustainable yields were acquired based on the 1997 pumping rates. The percentage of the sustainable yield for each county based on the 2005 rates is shown in figure 46. Water-use data shown in Table 2 is the reported use for 2005. Based on the reported water use for 2005, as well as the sustainable yields estimated from the USGS models, the average percentage of water use in the Alluvial aquifer that was sustainable in the Boeuf-Tenses Study Area was 48.1%.



Legend

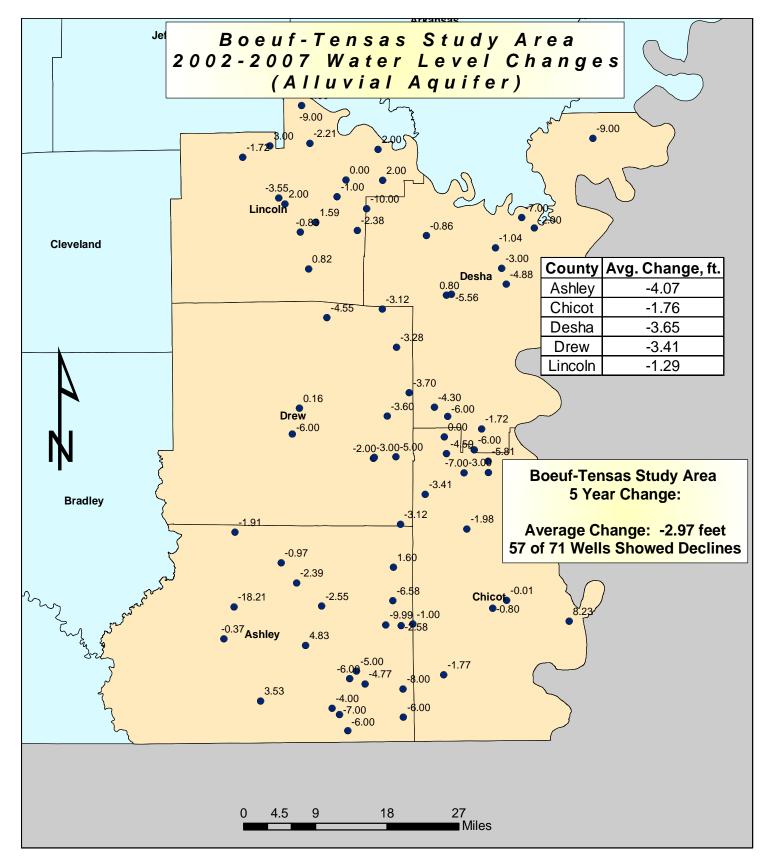
Wells

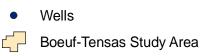


Boeuf-Tensas Study Area



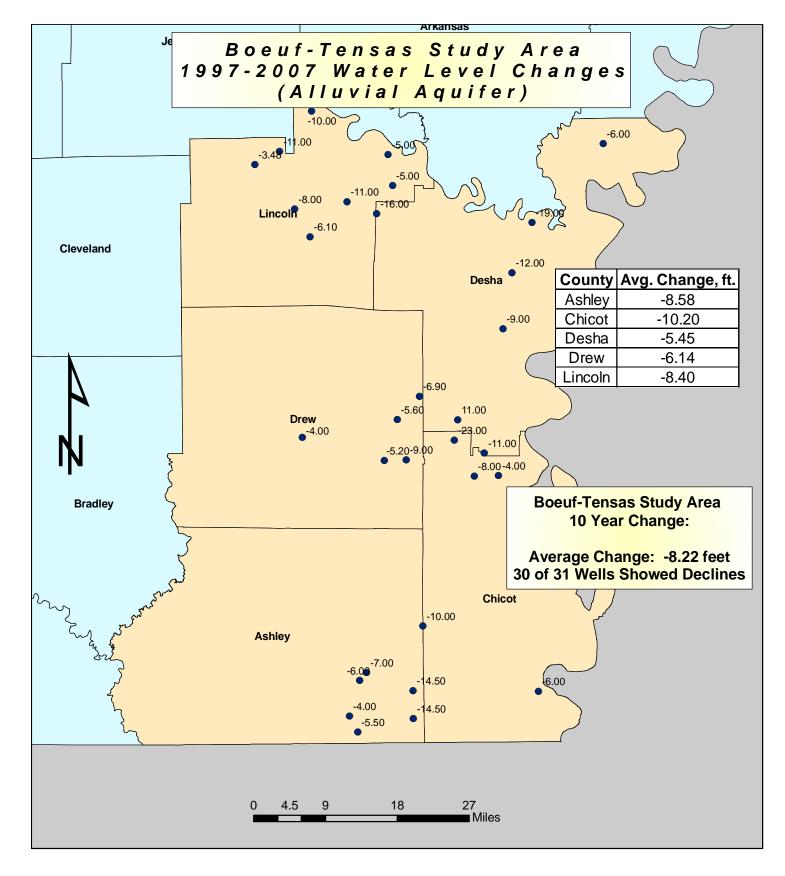










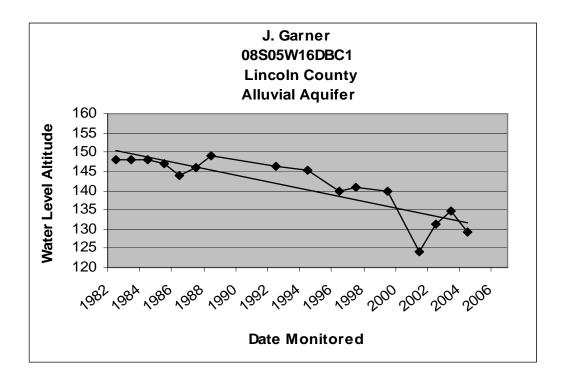


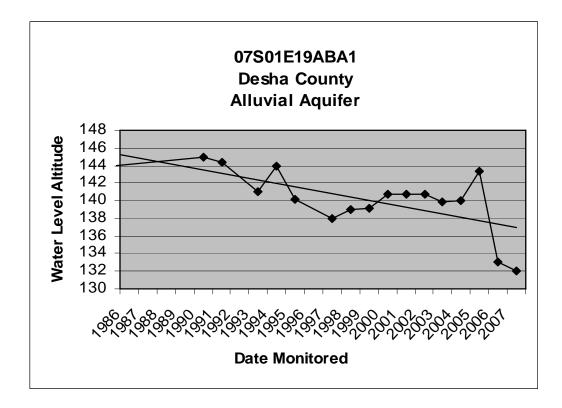
Wells











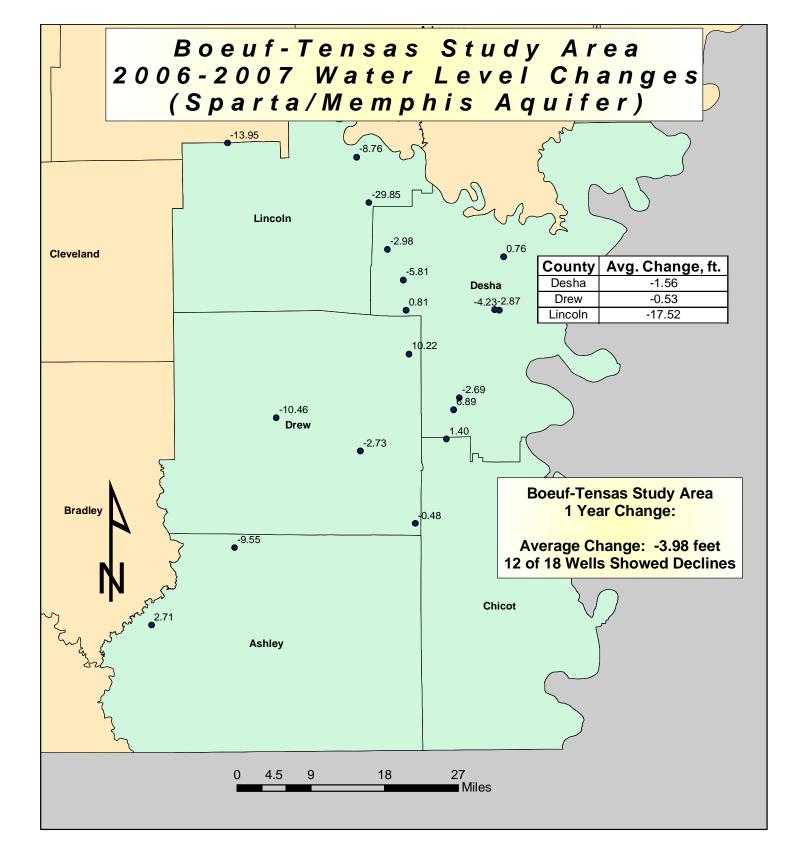
Continued monitoring of the ground-water levels in the Sparta aquifer of the Boeuf-Tensas Study Area shows mixed results mostly because of the relative lack of wells that are drilled into the aquifer in this part of the state. The ANRC as well as the USGS continue to add Sparta aquifer wells to the database from this study area and the historical data continues to improve every year.

During the 2006-2007 monitoring period the Boeuf-Tenses Study Area showed an average decline of -3.98 feet in the Sparta/Memphis aquifer, with 12 of the 18 wells monitored (66.7%) showing declines. Lincoln County had an average change of -17.52 feet, Desha County a change of -1.56 feet, and Drew County -0.53 feet respectively. (Fig.27)

During the 5-year monitoring period, from 2002 to 2007, 15 of the 17 wells monitored in the Sparta/Memphis aquifer (88.2%) showed water-level declines in this study area. Desha County had an average change of -2.69 feet, Lincoln County -13.00 feet, and Drew County -5.29 feet respectively. The entire study area had an average change of -7.16 feet during this time. (Fig.28)

From 1997 to 2007 the entire Boeuf-Tensas Study Area had an average change of -13.13 feet in the Sparta/Memphis aquifer. Fifteen of the 16 wells monitored during this 10-year period showed declines (93.8%) ranging from -3.10 feet all the way to -39.51 feet. Desha County showed an average change of -10.52 feet, Drew County -8.70 feet, and Lincoln County an average change of -23.79 feet respectively. These are significant declines for this aquifer in this study area with the potentiometric surface falling an average of 1.31 feet every year. (Fig. 29)

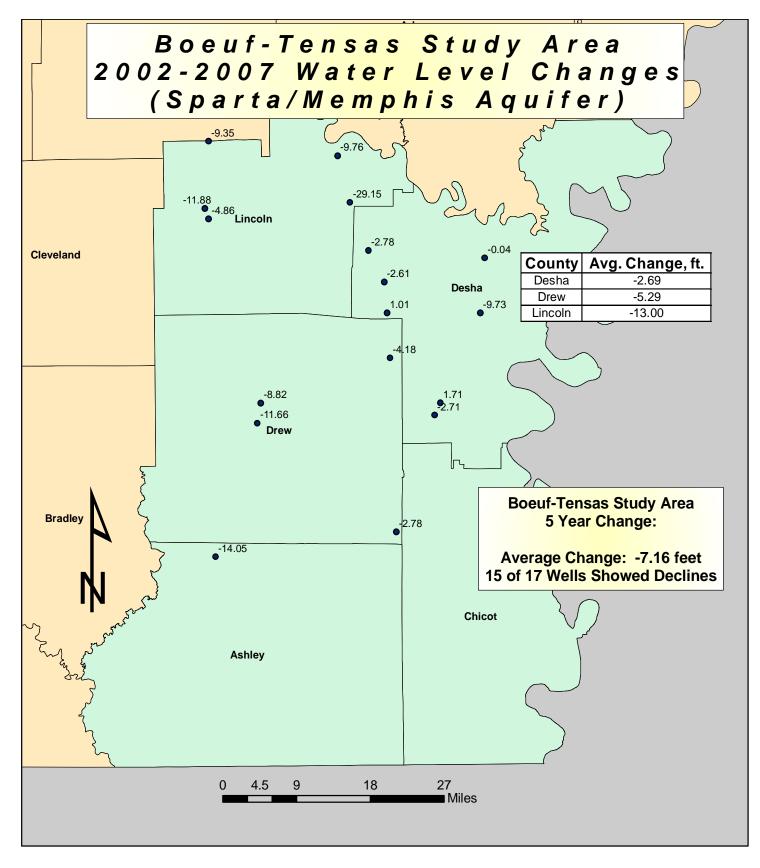
57



WellsBoeuf-Tensas Study Area







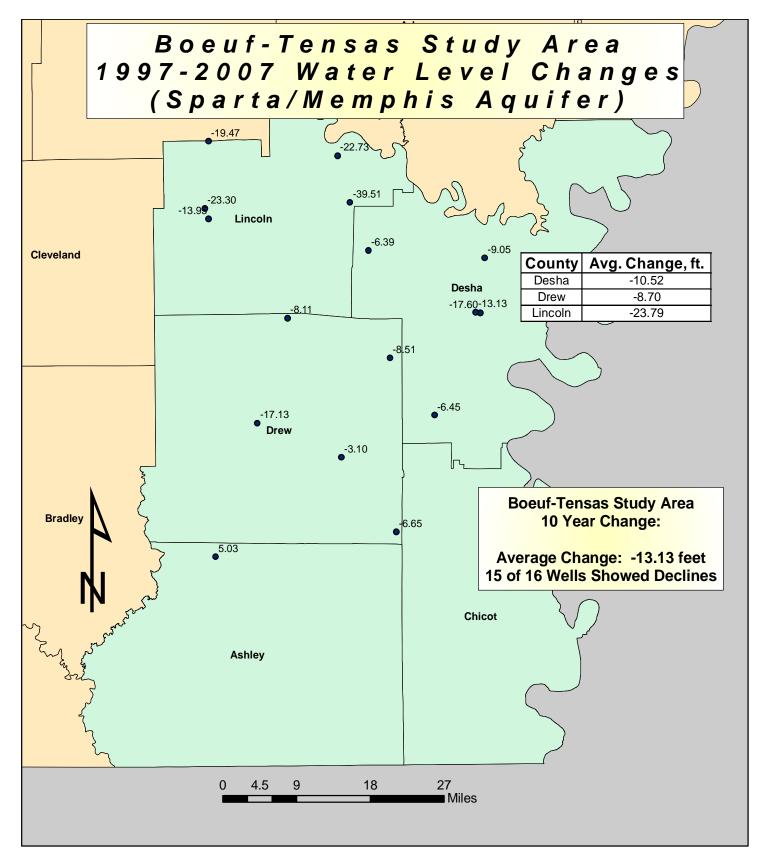
Wells



Boeuf-Tensas Study Area







Wells



Boeuf-Tensas Study Area





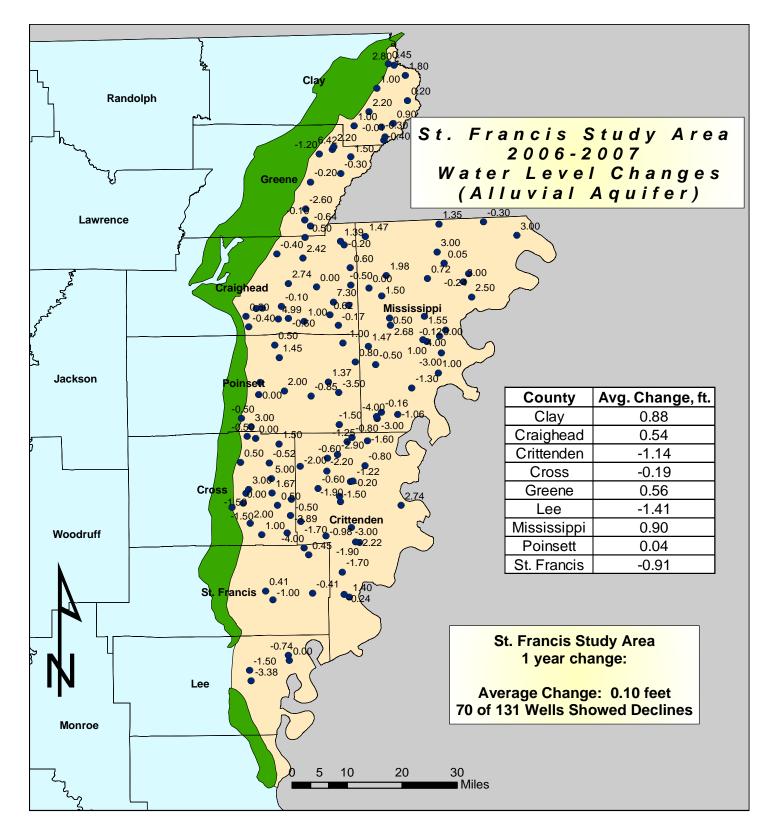
#### ST. FRANCIS STUDY AREA

The St. Francis Study Area is defined as the area west of the Mississippi River, east of Crowley's Ridge, and south and east of the subcrop of the McNairy-Nacatoch aquifer (6900 square miles) (Ackerman, 1996). For the purpose of this report, only the area inside the boundaries of Arkansas is considered. (Fig.1)

During the 2006-2007 monitoring period there were declines in average static water levels in the alluvial aquifer in 70 of the 131 wells monitored (53.4%) with an average change of +0.10 for a nearly static potentiometric surface. Cross County had an average change of -0.19 feet, Clay County +0.88 feet, Craighead County +0.54 feet, Crittenden County -1.14 feet, Greene County +0.56 feet, Lee County -1.41 feet, Mississippi County +0.90 feet, Poinsett County +0.04 feet, and St. Francis County -0.91 feet respectively. (Fig.30)

During the 5-year monitoring timeframe, from 2002 to 2007, Greene County had an average change of +0.19 feet, Mississippi County -2.32 feet, Craighead County -1.46 feet, Cross County +1.79 feet, Crittenden County -2.27 feet, St. Francis County - 1.16 feet, Poinsett County -0.12 feet, Lee County -1.57 feet, and Clay County +0.69 feet respectively. The alluvial aquifer in this study area had an average change of -1.21 feet, with 63 of the 93 wells monitored (67.7%) showing declines. (Fig.31)

A 10-year average change was also done in the St. Francis Study Area for the alluvial aquifer static water levels. Clay County has an average change of -0.97 feet, Craighead County -4.23 feet, Crittenden County -6.14 feet, Cross County -5.02 feet, Greene County -7.08 feet, Lee County -4.65 feet, Mississippi County -6.29 feet, and Poinsett County -4.24 feet, respectively. There was an average change of -5.01 feet over the entire study area for this 10-year period, with all 50 of the 50 wells monitored (100.0%) showing declines. (Fig. 32)

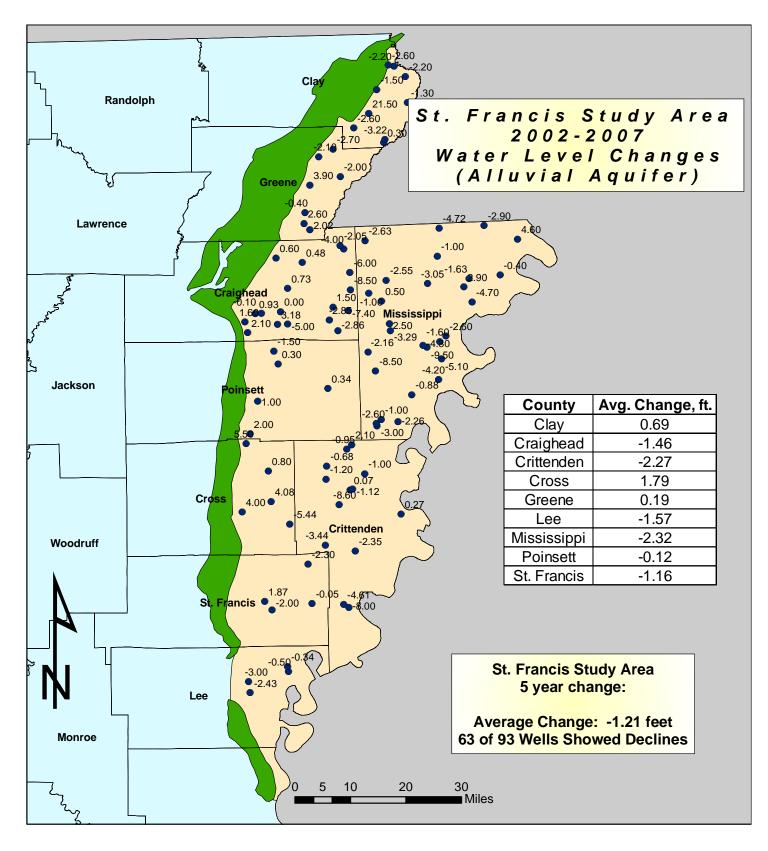


Wells
 Crowleys Ridge

St. Francis Study Area



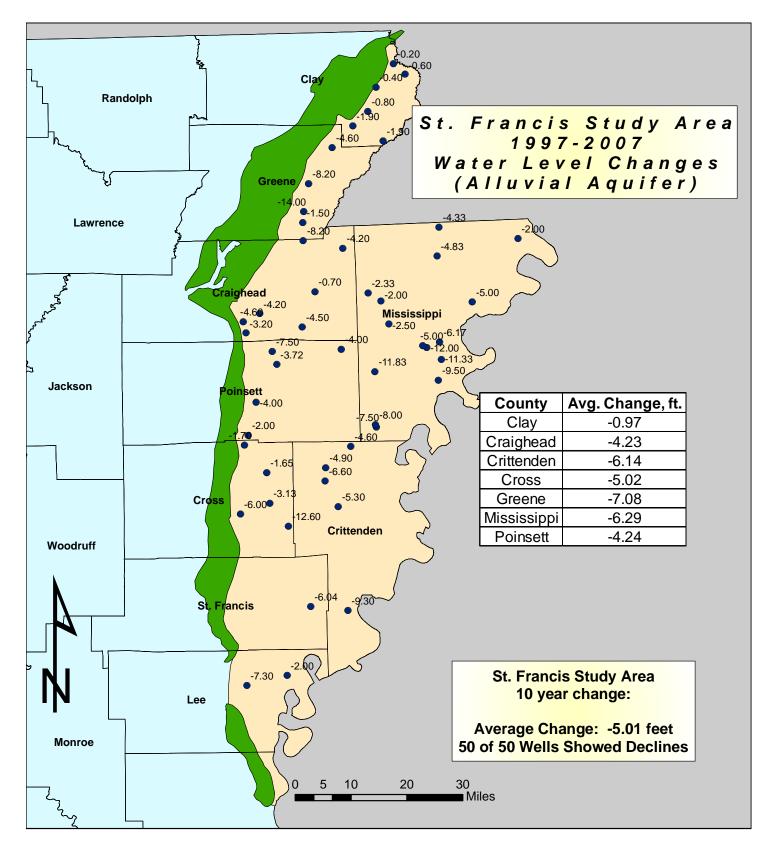




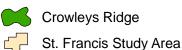








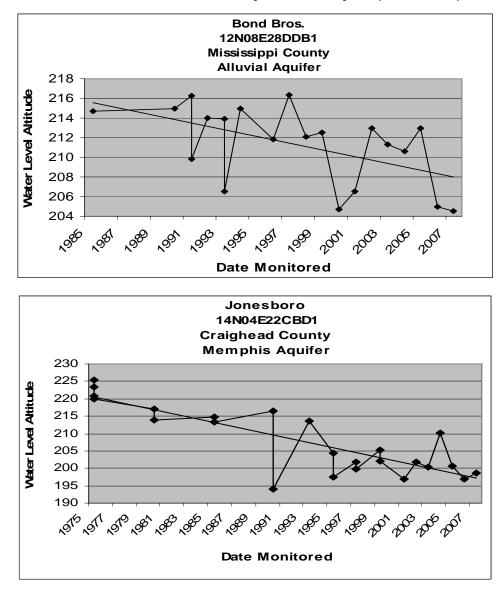
• Wells

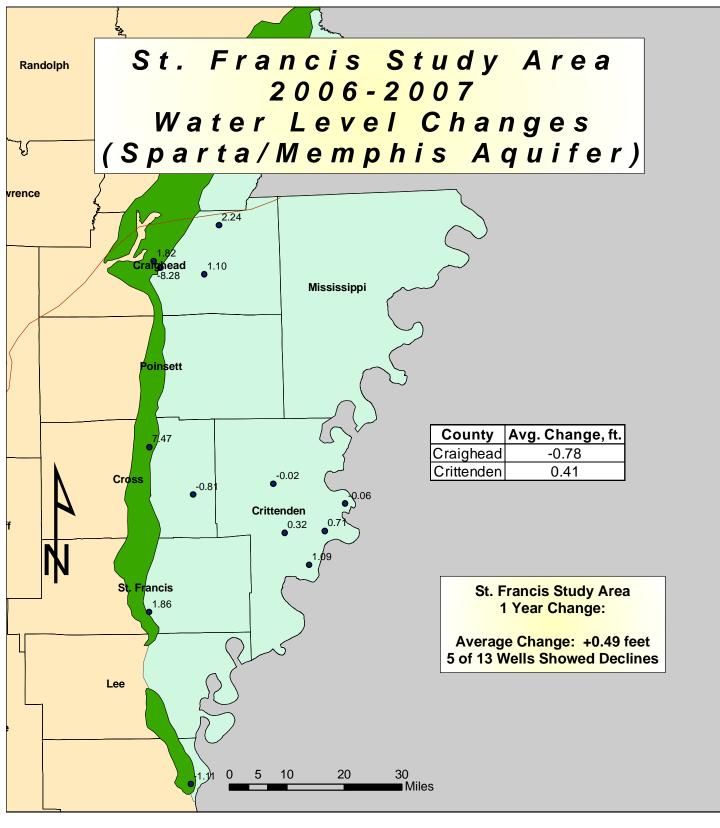




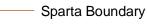


Just as in the Boeuf-Tensas Study Area, the St. Francis Study Area has a limited number of wells drilled into the Sparta/Memphis aquifer. This should be taken into account when looking at the county changes in the figures. There are more wells being drilled into these areas as the water level in the alluvial aquifer continues to decline. USGS as well as the ANRC will continue to add monitoring points in these areas for the Sparta/Memphis aquifer. The hydrographs below are good representations of the static water level changes over time. Figures 33 and 34 show the actual measurements taken for the 1 year and 10 year periods respectively.





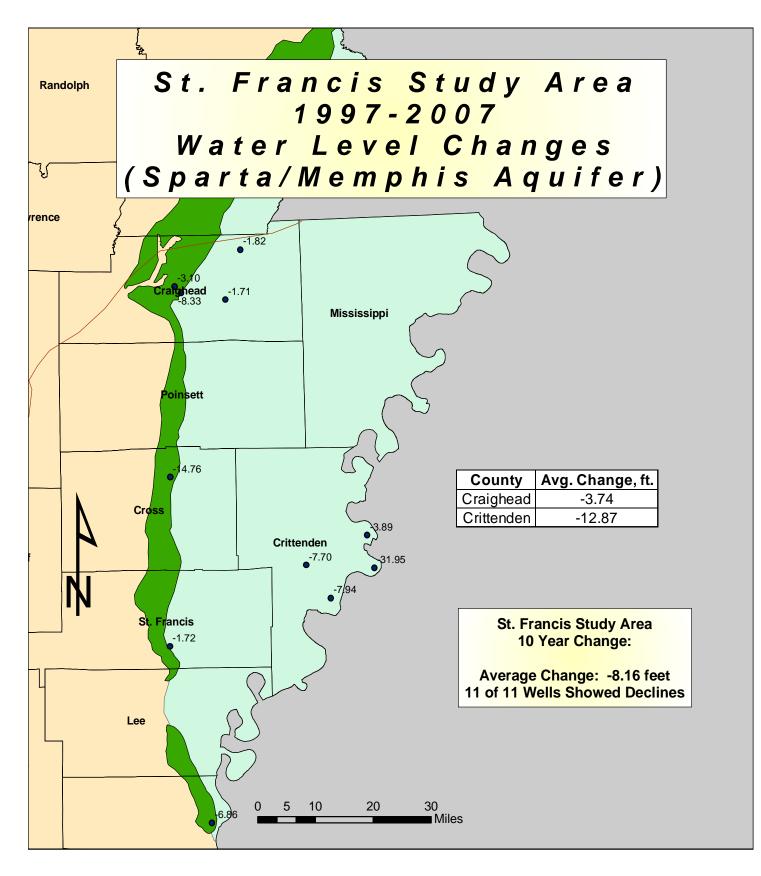
• Wells



- Crowleys Ridge
- St. Francis Study Area







• Wells



- Crowleys Ridge
- St. Francis Study Area



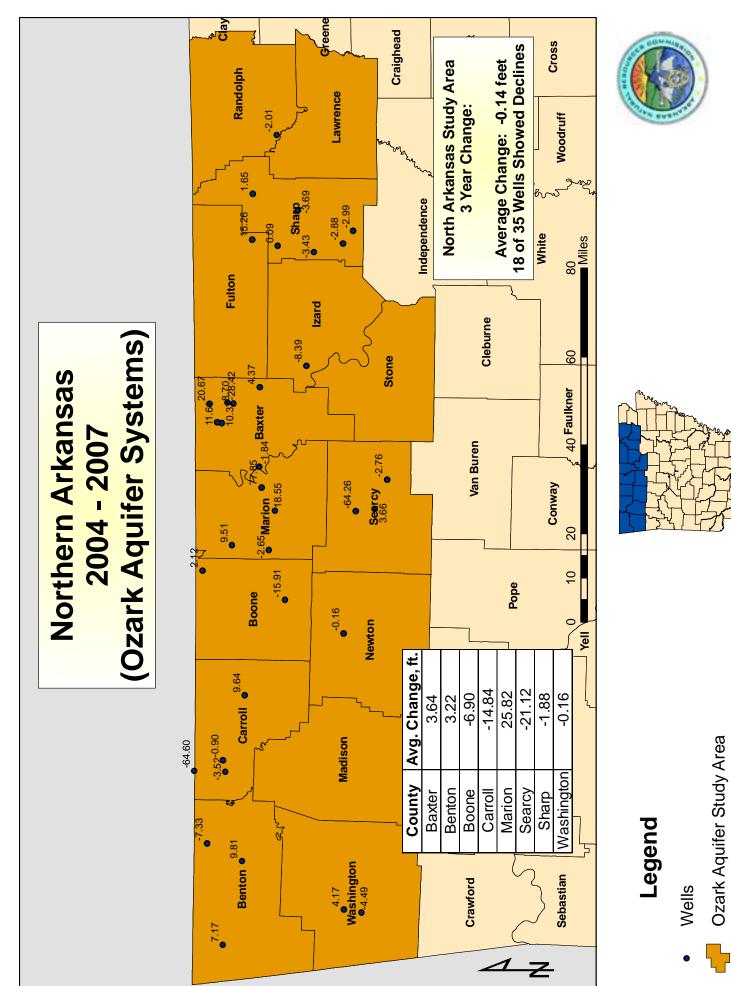


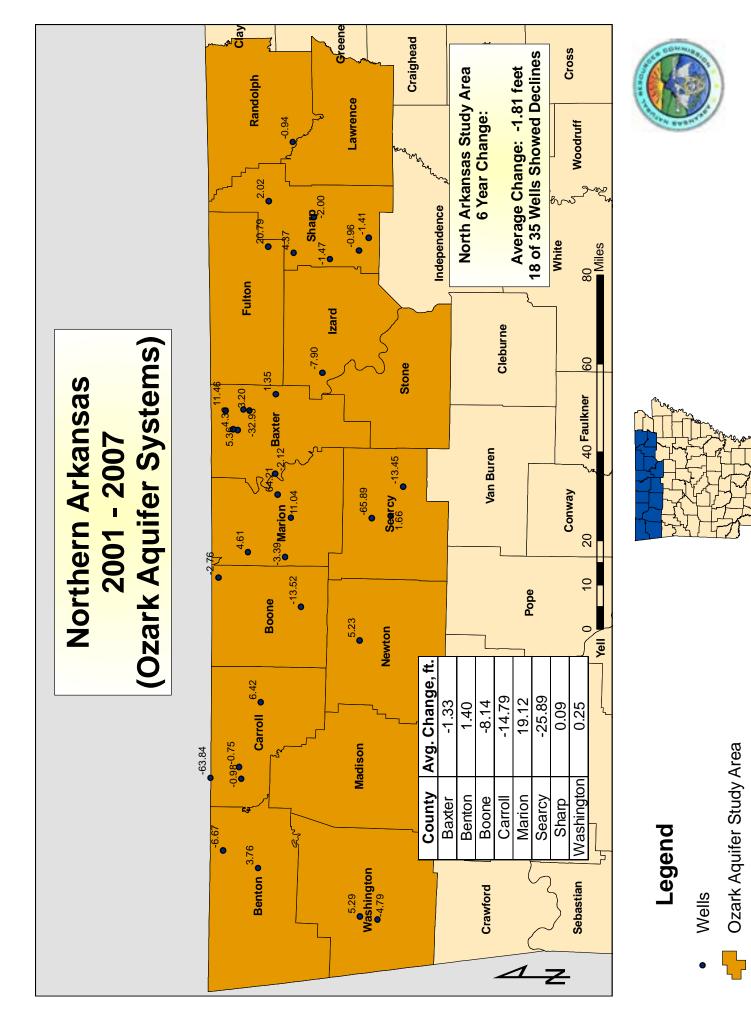
### **Other Aquifers Monitored**

The USGS in cooperation with the ANRC monitors aquifers other than the alluvial and Sparta/Memphis aquifers throughout Arkansas. Every third year the USGS monitors the Cockfield and Wilcox aquifers, the Tokio and Nacatoch aquifers, and Paleozoic Age aquifers. The 2007 monitoring year was designated for monitoring of the Ozark aquifer in northern Arkansas. The water level changes were analyzed for a 3-year and 6-year periods from 2004 to 2007 and from 2001 to 2007.

The Ozark Aquifer in northern Arkansas is complex relatively thick (1,200 ft – 4,000 ft) sequence of Paleozoic limestones, shales, dolomite, and sandstones that are the main source of good quality water in this area of the Ozark Plateau. For this reports purposes the Ozark Aquifer will be defined as the area in Arkansas bounded on the north by Missouri, on the east by the fall line of the Mississippi Alluvial Aquifer, on the west by Oklahoma, and to the south by the Ouachita region of the state.

There were 35 wells monitored by the USGS for water level change from 2004 to 2007. Of these 18 (51.4%) showed a decline, with an average change of -0.14 feet over the area of the aquifer studied. From the 2001 to 2007 period there were also 35 wells monitored, with 18 (51.4%) of these showing static water level decline as well. The county by county averages may be seen on figures 35 and 36.





# Summary of Water-Level Changes Spring to Fall, 2007

A set of 357 of the Arkansas Natural Resources Commission (ANRC), and Natural Resource Conservation Service (NRCS) monitoring wells and 2 real time wells equipped and maintained by the Arkansas District of the U.S. Geological Survey (USGS) were utilized to survey the affects of this year's irrigation effects and precipitation pattern. This data illustrates the effects of the irrigation season on the alluvial aquifer in eastern Arkansas. This summary represents the first evaluation of the 2007 summer changes. This data is contained in appendix E.

Typically, water levels in the alluvial aquifer decline approximately 3.3 feet over the course of the agricultural irrigation season each summer. This survey has identified a water-level decline for the summer of 2007 that averages -3.28 feet in the alluvial aquifer, which is in the normal range of declines. Average spring to fall changes for the counties in the Grand Prairie Study Area are; Arkansas County -1.68 feet, Jefferson County -2.07 feet, Lonoke County -2.05 feet, Prairie County -0.33 feet, and White County -1.00 feet, respectfully.

The water level in the USGS/UAPB Lonoke Farm (real-time site) well shows a decline of 5.3 feet from early May through late September, and a rise in the water level of approximately 3 feet since pumping has decreased in September. This is an area of intense pumping from the alluvial aquifer, where the cone of depression is expanding as a result of pumping at a rate that is above the sustainable yield of the aquifer. The data from this well shows a decline in the static water level of approximately 8 feet since 2001.

A similar real-time site at the Stuttgart Experimental Rice Station revealed a decline of 0.85 feet over a period of about eight months ending in late November. This is a typical decline that is observed in those areas in close proximity to the cone-of-depression which centers around Stuttgart.

### Water Quality

### Specific Conductance in the Alluvial and Sparta/Memphis Aquifers

Generally, the occurrences of higher specific conductance in the alluvial aquifer most likely are caused by movement of water containing elevated concentrations of dissolved solids from sources at depth. (Bryant and others 1985). This "leaking" of water with higher concentrations of dissolved solids from an underlying aquifer is also thought to be a plausible explanation for the increase of specific conductance in the Sparta/Memphis aquifer.

The specific conductance data that is collected by the USGS is used to quantify the amount of dissolved solids present in the ground water. Table 3 shows the specific conductance and equivalent dissolved chloride for the wells monitored by the USGS in both the alluvial and Sparta/Memphis aquifers in 2006.

Generally the areas of higher specific conductance in the alluvial aquifer are located in western Chicot County and eastern Lincoln County. In data collected by the USGS, an area of increased concentration was noted west of Crowley's Ridge in Cross, Greene, Craighead, St. Francis, Lee, Monroe and Poinsett Counties. A map showing different concentrations can be found in the USGS Water-Resources Investigations Report 01-4124. (Schrader, T.P. 2001)

In the Sparta/Memphis aquifer the USGS collected water samples, and recorded specific conductance data from 65 wells in 26 different counties in 2006. This data is included in Table 3. Specific conductance values greater than 800 uS/cm were present in Arkansas, Ashley, Chicot, Craighead, Cross, Desha, Greene, Lincoln, Prairie, Pulaski, Monroe, St. Francis, White, and Woodruff Counties. (Schrader, T.P., 2006). A table of wells sampled, as well as a map showing the areas of equal specific conductance can be found in USGS Scientific Investigations Report 2004-5055.

	Agency	Site Id	Station Name	Latitude	Longitude	Sample	Sample	Conductance	Temperature
	Code					Date	ami	-	
	USGS	341556091293101	05S04W07CCC1	341555.36	912931.6	6/21/2006	0831	0101	0'RL
-	USGS	342101091205701	04S03W17ADD1	342101.87	912058.1	6/21/2006	0915	1080	19.5
-	1	342130091400001	04S06W16BD1	342130	914000	6/21/2006	0730	720	20
		343100091244501	02S04W14CD1	343100	912445	6/21/2006	1010	887	19.5
-	1600	1015001502401	18CORWO1AAR1	331014 97	915225.1	6/19/2006	1505	583	19.8
+	1000	2215010091504001	17S07W05CD01	331501.87	915049.7	6/19/2006	1400	689	19.7
-	USGS	332245091285201	15S04W23DBD1	332247.33	912851.9	6/19/2006	1315	612	19.2
-									
-	USGS	331415091242601	17S03W09ADA1	331415	912426	6/20/2006	0815	2960	20.3
+-	USGS	331500091150701	17S01W06BCC1	331501.18	911505.2	6/20/2006	0710	197	19.2
+	USGS	333154091224561	13S03W35BAC1	333154.05	912245.5	6/20/2006	1010	376	23.6
t d									
-	USGS	361519090131801	19N08E28BB1	361519	901318	6/28/2006	1700	356	16.7
t	USGS	361858090110301	19N08E02ABB1	361858.57	901103.7	6/28/2006	1550	371	16.8
+	USGS	362055090092901	20N08E24DDA1	362057.1	900933.5	6/28/2006	1425	362	17
	USGS	362445090372901	21N04E34DDC1	362445.32	903729	6/28/2006	1325	267	17.9
Craighead	USGS	354402090471201	13N03E29AAA1	354403.31	904712.9	6/28/2006	0719	1140	18.2
Craighead	USGS	355516090285600	15N06E19AAB1	355517.28	902857.3	6/27/2006	1925	513	19.2
Craighead	USGS	355813090213901	16N07E32ADD1	355812.92	902138.2	6/27/2006	1805	407	18.9
Colorador -	00011	10000000000000	CONTE12DAA1	SENRAD ER	QU1807 5	800017018	0715	516	18.5
Crittenden	1600	361042000355011	07N07F31CCC1	351041.9	902358.9	6/27/2006	0805	496	18
	2000								
+	USGS	351520091005201	07N01E05CDA1	351517.52	910049	6/27/2006	1100	961	19
t	SOSI	352151090351101	09N05E32BDB1	352150.53	903512.1	6/27/2006	1005	569	18.5
-	USSCS	352204090595901	09N01E33BBA1	352204	905959	6/27/2006	1220	566	18.7
-									
-	USGS	334809091220901	10S03W26CAA1	334806	912144.5	6/20/2006	1105	826	19.4
-	USGS	335754091324301	09S04W06BCA1	335756.06	913242.9	6/20/2006	1149	877	20.6
-									-
-	USGS	332734091292501	14S04W27AA1	332734	912925	6/19/2006	1230	637	19.8
	USGS	334535091313401	11S04W08DBA1	334531.98	913136.2	6/19/2006	1155	380	21.1

Temperature and Specific Conductance for

County	Agency	Site Id	Station Name	Latitude	Longitude	Sample	Sample	Conductance	1 emperature
	Code					Date	Time	InSiemens/CM	Degrees C
Greene	USGS	355940090265501	16N06E28ABB1	355938.31	902657	6/28/2006	1815	819	17.8
	00001	0001001001000	PONDOR NOT POA	2E24E4 70	0449477	BUDGECE	0815	ACA	18.4
Jackson	0000	10/401/80101202		2 i o	0440440	00000000	00100	000	18.7
Jackson	USGS	352829091130901		352828.1		0002/02/0	0120	667	1.01
Jackson	USGS	355219091051201	14N01W09AAA1	355220.36	910515.1	6/28/2006	1000	460	18.1
In Hannahan	0001	10202010020020010	ACCAMPSAD1	241008 74	013712.2	RIDOCOOR	1345	675	19.7
Jellerson	0000	01010101010101	FOUR FROM FOUR	TA CONCACA	A 4076 A	BUDDODB	1425	203	20
Jetterson	neee	342123091492601	04508W13DCB1	00.221240	4-07641A	000202020	1400	000	2 Y C
Jefferson	USGS	342415092004801	03S09W31DDA1	342415	920048	6/20/2006	GLGL	909	24.0
Jefferson	USGS	342657092013901	03S09W18CC2	342655.67	920139.1	6/20/2006	1605	642	20.2
	0000			900000	006363	2000/00/2	1105	600	18.1
Lawrence	0262	10202006060922002	TONUZEUODAT	200250	PCCCCC	00707/07/0	0011	000	
ee.	USGS	344025090460401	01N03E23CCC1	344025.26	904603.6	6/22/2006	1425	692	19.2
Lee	AR008	344914090483701	03N03E32CAB1	344932.65	904926.2	6/22/2006	1520	540	18.8
Lincoln	USGS	335714091463701	09S07W01DC1	335714	914637	6/19/2006	1035	548	19.9
Lincoln	USGS	335821091434601	09S06W04BCD1	335821.38	914345.8	6/19/2006	0950	372	19.1
Lincoln	USGS	340021091320101	08S04W19CC1	340021	913204.5	6/19/2006	1120	843	19.4
								077	
Lonoke	USGS	343230091495001	02S08W13BBB1	343231.92	914935.3	6/21/2006	1120	211	50
Lonoke	USGS	344114091472001	01N07W29BBB1	344114	914720	6/21/2006	1215	458	20.7
Lonoke	USGS	344957091433801	02N07W02BBA1	344957	914338	6/21/2006	1330	415	20.9
Mississippi	USGS	353841090145901	12N08E20DAD1	353842.48	901457.6	6/27/2006	1650	411	19.4
Monroe	ISGS	343906091231701	01S04W01BAB1	343905.86	912316.7	6/22/2006	1030	712	19.4
Monroe	AR008	343958091264601	01N04W33BB2	343958	912646	6/22/2006	0940	743	19.4
Monroe	USGS	344242091103001	01N02W12CBC1	344242.3	911031.9	6/22/2006	1230	985	19.2
Monroe	USGS	345021091154701	03N03W36AAA1	345026.65	911547.1	6/22/2006	1110	806	18.9
and the second second									
Phillips	USGS	342916091005801	02S01E28CCB1	342916.37	910058.1	6/22/2006	1340	606	19.5
Poinsett	USGS	352651090443701	10N03E35CDD1	352656.17	904435.9	6/27/2006	1450	532	19.4
the second se			ACKING AND ADA	10 110120	0 101100	0000000	1266	010	007

Temperature and Specific Conductance for

Temperature	Degrees C	19.2	19.1	19.6	19.7	19.1	20.3		17.7	40.5	18.0	19.5	19.1	18		19.1	18.3	
Conductance	uSiemens/CM	787	537	952	1000	886	830		761	000	780	714	755	843	2	925	589	
Sample	Time	1305	1545	0100	0845	0250	1635		1210	1010	1010	1900	0715	1045	200	0805	0910	
Sample	Date	6/27/2006	6/27/2006	6/22/2006	6/22/2006	6/22/2006	6/21/2006		6/28/2006	0.00000	0/177/00	6/22/2006	6/23/2006	ADADADA	000400400	6/23/2006	6/23/2006	
Longitude		905034.1	902320	912624	913420.7	913308.7	920333 7		905729.1	000000	910246.8	905638	905002.7	012752 E	2000000	910512.5	910741	
Latitude		353350.31	353435	343521	344957.63	344545.22	343204 71		360942.69	10010010	345649.24	345708	350812.64	2E0603 E7	10.040000	350945.35	351046	and the second se
Station Name		11N02E26AAB1	11N07E18CAB1	01S04W28BD1	02N05W06BAB1	02N05W29DDB2	02S10W14DC1		18N01E34AAC1	A CONTRACTOR OF A CONTRACTOR O	04N01W24DA1	04N01E13DDA1	06N02E13DCA1	PONDON SA A DA	I CONTRACTORINO	06N01W10AB1	07N01W32CCD1	
Site Id		353349090503501	353435090232001	343521091262401	344440091345401	344544091330802	3432130020303001		360942090572901		345647091024500	345708090563801	350812090500201	SEAGOOMA STERA	1070101010000000	350944091051201	351046091074101	ANTER ANTER AND A DECK
Agency	Code	USGS	USGS	USGS	AR008	USGS	1606	2000	USGS		USGS	USGS	USGS	00001	0000	USGS	USGS	
County		Poinsett	Poinsett	Prairie	Prairie	Prairie	Dubacki	Nono I	Randolph		St. Francis	St. Francis	St. Francis	VAR-3-	WINE	Woodruff	Woodnuff	

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S	
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and	
Temperature	

## Ground-Water Quality Standards

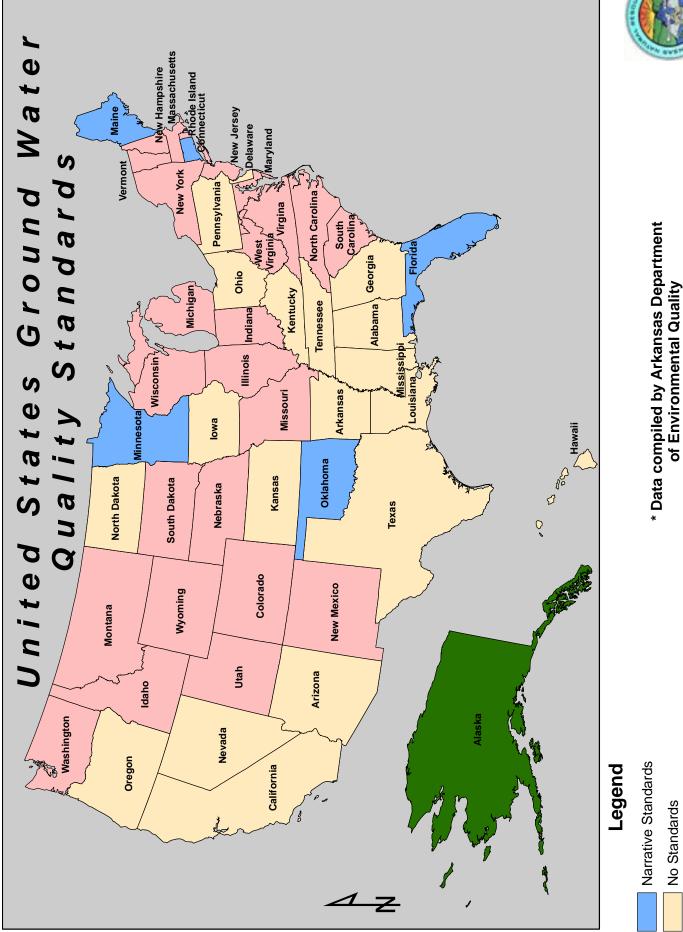
Through legislative authority, the ANRC Ground-Water section has been given the task of creating ground-water quality standards for the State of Arkansas. For the past year, ANRC Ground-Water section staff has been researching and documenting existing ground-water quality standards throughout the United States to determine the best approach to initializing the creation of enforceable regulations for the state of Arkansas. Arkansas Department of Environmental Quality (ADEQ) geologist, Tim Kresse, among others, has assisted ANRC staff by providing information from their research and documentation of existing ground-water quality standards from other States in the US. This information has been most valuable to ANRC staff, and the ANRC is extremely grateful to have the assistance of ADEQ on this matter.

ANRC staff has determined that although most states have some form of water quality standards, there are few that have enforceable standards targeted specifically at ground-water. Some states have chosen to have either narrative or numerical standards; however other states decided to include both narrative criteria as well as a list of numerical standards in their ground-water quality standards document. Figure 37 shows an illustration of the differences between states' ground-water quality standards. Those states that have standards deemed appropriate by ANRC staff will be used as models in the preparation of standards for Arkansas. The standards vary from state to state, but most of them share a few common traits. Most standards are based on water use. For example, waters used for agriculture may have a different set of numerical criteria than waters designated for municipal use. Some states have also implemented a numerical warning level that is usually half of the allotted MCL to serve as an early indicator that the ground-water is becoming impaired. These levels are often referred to as preventative action levels, (PAL).

ANRC staff has begun compiling data into lists, spreadsheets, and maps that will aid in the overall process of initializing a set of standards for the State. A comprehensive list of the specific constituents and their recommended maximum contaminant level (MCL), listing every constituent that other States have included in their regulations and a range of the recommended MCL's, has been developed. From this spreadsheet, ANRC staff along with other groups and agencies will determine which constituents apply to Arkansas.

On December 5, 2006 a meeting was held at the ANRC office to begin formally discussing the ideas and concerns of stakeholders. Several state and federal agencies sent representatives to the meeting. Among the items discussed at the meeting were the identification of additional stakeholders for future meetings, the difficulties that may arise when attempting aquifer classification based upon water use, and the possible hardships in enforcing such standards. Another meeting is scheduled for the spring of 2008.

Developing ground-water quality standards for the State of Arkansas will prove to be a monumental task for the ANRC as well as for the stakeholders involved. There is currently no timeline in which the ANRC expects to have completed a set of standards; however, the need for such enforceable standards continues to grow. Enforceable ground-water quality standards will protect the State's ground-water for all uses, and once completed and in effect, the standards will be of utmost value to current and future citizens of the State of Arkansas.



Narrative and Numerical Standards

Numerical Standards



## Nonpoint Source Program

The Arkansas Natural Resources Commission's (ANRC's) Nonpoint Source Program is supported by Section 319 (Clean Water Act) Grant Funds which provide 60 percent of the total program funding. ANRC staff continued work on three nonpoint source ground-water projects in 2007.

A statewide 319 ground-water project began in 2000 and is ongoing until completed. The purpose of this project is to upgrade the statewide ambient ground-water quality monitoring program through installation of new wells or annexing existing wells into the monitoring network where new monitoring points are needed. Monitoring well installations/annexations have focused in the existing and potential critical ground-water areas of eastern and southern Arkansas. A more efficient monitoring network has resulted from the new well installations. Emphasis toward the critical threat to ground-water quality in the karst terrain of northern Arkansas has now also become a primary objective.

Ambient ground-water monitoring in Arkansas has traditionally been performed by three organizations: United States Geological Survey (USGS), Arkansas Department of Environmental Quality (ADEQ), and Arkansas Department of Health (ADH). The quality of this data is essential to the State's ability to manage and protect its valuable ground-water resources. ANRC is currently enhancing the quality and quantity of data collected in this program.

In 2001, a text summary of the hydrogeologic characteristics of each aquifer in the State was prepared, and twelve principal aquifers in the State were mapped to show the aerial extent of each aquifer along with the existing ground-water quality monitoring network's well locations. ANRC evaluated the placement of wells in the existing network, identified areas were new monitoring points were needed, and upgraded the network in eastern Arkansas by installing new wells or annexing existing wells into the network. New monitoring well installations in eastern Arkansas initiated in June 2002 and are continuing to-date. In 2007, 3 alluvial wells were installed in southeastern Arkansas, 2 Sparta wells were installed in Ouachita County, and 1 Boone well was installed in Washington County. Thus far, 36 alluvial wells have been installed in 19 counties in eastern Arkansas from Greene to Chicot Counties (Figure 38), and 8 Sparta wells have been installed in eastern (6 wells) and southwestern Arkansas (2 wells). Leases are enacted for wells installed on private lands which allow for installation and continued access. Memorandums of Agreement (or Use Permits) are established with relevant agencies for wells installed on State lands.

New wells added to the monitoring network are sampled, following installation or annexation, for selected chemical constituents using EPA approved protocols. Subsequent sampling frequency is designated to enhance the existing ground-water quality monitoring program by documenting changes in ground-water quality over extended periods. One goal of the sampling program is to monitor wells in areas that may demonstrate water quality degradation as the alluvial and Sparta aquifers continue to be overdrawn. Long term monitoring will also establish observable trends in ground-water quality which will benefit government agencies and the general public.

All ground-water quality sampling for this project is performed under protocol outlined in EPA approved Quality Assurance Project Plan (QAPP). Initially approved on March 12, 2001, the QAPP has been revised as required during the project, and is currently updated each year.

Water quality analyses include parameters that allow evaluation of basic water quality conditions, as well as specific constituents, which indicate potential water quality degradation in the State's aquifers. Analyses include selected metals, nutrients, inorganic water parameters, and selected pesticides. The analyses selected for each well (or spring) are determined by the naturally occurring and/or anthropogenic induced effect on the aquifer being monitored.

Ground-water sampling is performed in all newly installed wells following installation, in addition to all wells annexed into the monitoring network. Samples are analyzed by the Arkansas Water Resources Center laboratory or a contract associate.

These results are presented in Appendix F. Pesticide analyses were performed on all alluvial wells installed through May of 2004 (SW22), however, due to the high cost of analyses and the absence of significant detections, pesticide analyses are currently performed on samples from selected wells. Pesticide analyses are performed by ADEQ.

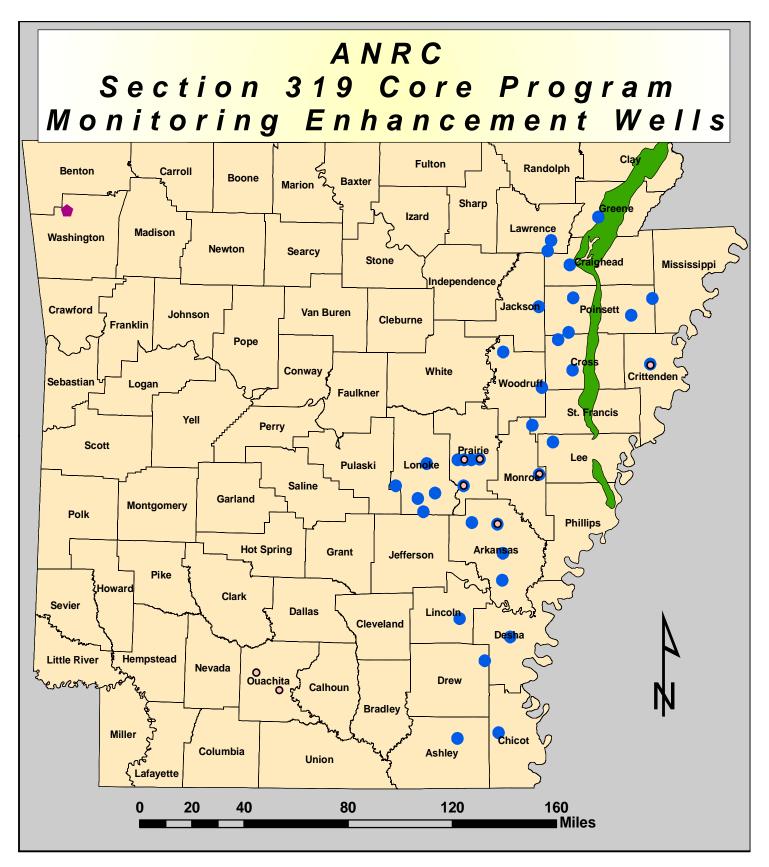
In northern Arkansas, a project documenting karst features is underway. Ground-water studies performed since the late 1970s have documented water-quality degradation in springs and wells in the karst areas of the State (Ogden, 1979; Steele and Adamski, 1987). The inordinate rural population growth in the region, with associated reliance on onsite wastewater systems for homes and businesses, represent a threat to ground-water quality. ANRC has documented karst feature locations through review of relevant publications and maps, and generated maps displaying sinkholes. Lineament maps have been generated by the AWRC. Losing stream segments, critical soils, and previously performed dye trace studies are also being considered for mapping. Sinkhole locations have been provided by ADH, Environmental Health Specialists and Designated Representatives, with planned assistance for sinkhole mapping locations from Natural Resource Conservation Service (NRCS).

A threat to ground-water quality from onsite wastewater systems also exists in the fractured rock terrain of the southern Ozarks, Arkansas valley, and Ouachitas. Similar to the karst region, characterized by thin soils in upland areas and rapid recharge into fractures, water wells in this region are also subject to potential contamination.

Karst maps and other training materials associated with the hydrogeology of karst and fractured rock terrains were presented to ADH professionals in November 2006. Further training of ADH personnel is also planned. The goal is to achieve improved septic and alternative system design in the karst region and in the fractured rock terrain of the southern Ozarks, Arkansas valley, and Ouachitas. Training materials are also planned for distribution to governmental agencies and the general public to provide information regarding the potential for ground-water contamination in karst and fractured rock terrain.

A third non-point project involves development of ground-water quality standards for Arkansas. Beginning in 2006 and through 2007, documentation of standards development in other states was performed. Review of standards development in other states allowed evaluation of the positive and negative aspects of development and fostered selection of select states that can be used as models for development of standards in Arkansas. Currently, models for classification of ground water and aquifers are being developed, which will provide a foundation for ground-water quality standards development. In 2008 and 2009, formulation of ground water quality standards for Arkansas will be performed.

These projects represent the State's commitment to improve and monitor ground-water quality as part of the Nonpoint Source Pollution Management Program.



# Legend

- Alluvial Wells (36 Wells)
- Sparta Wells (8 Wells)
- Well in Boone Formation (1 Well)

Crowleys Ridge County Boundaries



## **ARKANSAS WATER WELL CONSTRUCTION COMMISSION**

#### WATER WELL CONSTRUCTION PROGRAM

The Arkansas Water Well Construction Commission (AWWCC) is designed to insure "that the general health, safety, and welfare be protected by providing a means for the proper development of the natural resource of underground water in an orderly, sanitary, reasonable, and safe manner, without waste, so that sufficient potable supplies for the continued economic growth of our state may be assured" (Arkansas Water Well Construction Act, 1969). The commission is composed of seven members. The members consist of: the director of the Department of Health or a designated representative, the director of the Arkansas Soil and Water Conservation Commission or a designated representative, one member involved in the heat pump industry, and four members involved the water well drilling industry.

The commission achieves its goal by monitoring the construction of water wells in the state. Any person who engages in water well construction must obtain a water well contractors license from the commission. The contractor must keep a current bond and obtain six hours of continuing education each year to keep their license. In addition to monitoring the drilling industry the commission also provides services to licensed drillers as well as to the public. Some of the services include providing information on water levels in wells, construction information about wells in an area, and proper well abandonment procedures. The commission also is equipped to assist drillers in the assessment of repair work, which may be needed in damaged wells.

One way the commission keeps up with where well construction is taking place is through its relationship with Arkansas Department of Health. The Health Department has Environmental Health Specialist in each county. These health specialists know where in the county wells would be required, and often layout lots showing landowners where to place their septic system and well on their property. The commission's inspectors try to visit each county health office at least once a year. The commission also conducts well inspections in each county. These inspections are to insure the protection of our ground water, through compliance with the rules and regulations set forth by the commission.

The inspectors also visit licensed contractors during their county surveys and inspections. These visits provide valuable insight about the area and industry. The local water well contractor knows more about drilling wells in his area than anyone else. This knowledge, along with grouting and sealing requirements in the commission's rules, ensure the customer clean safe water, and protect this precious resource.

During the 2003 legislative sessions an act was passed to allow the commission to develop an apprenticeship program for drillers and pump installers. The apprentice program will allow people wanting to become registered a way to gain verifiable experience in their chosen field. The program allows a person with one year of experience apply for the apprenticeship program. Since the program began in 2005 sixty applicants have enrolled, and almost a dozen have gone on to become registered drillers and pump installers.

The Commission fields complaints from the public about water well construction, as well as inspecting wells for violations of the Commissions rules and regulations. The following is a summary of those activities for the 2006-2007 licensing year.

- 1. Fourteen (14) complaints were recorded in which it was determined that an investigation or arbitration was required, or in which it was determined that a violation had occurred as a result of noncompliance.
- 2. There were Four (4) cases, which required civil penalties to be assessed.
- 3. Three (3) administrative hearings were conducted regarding contractors.

- Six (6) new applications to become a licensed pump installer or certified driller were received.
- 5. Fifteen (15) new applicants have entered the apprenticeship program.

There are 180 water well contractors licensed (drill and/or pump) to work in Arkansas. The larger contractors usually employ several registered drillers and/or pump installers and can have more than one rig permitted. The following is a break down of the licensed contractors, drillers, pump installers, and permitted rigs for 2007-2008.

- 1. 148 contractors are licensed for drilling and pump installation.
- 2. 32 contractors are licensed for pump installation only.
- 3. 286 registered drillers
- 4. 282 registered pump installers
- 5. 375 permitted drill or pump installation rigs.

Last year there were 3,023 wells reported to the Commission. Of these approximately 50% were domestic wells. The next largest group is irrigation wells which accounted for approximately 45% of the total number of wells drilled in Arkansas.

The remaining wells were: livestock / poultry wells; monitoring wells; public or semi public supply wells; test wells; and geothermal wells for heat pump installations.

## AWWCC LICENSE SUMMARY

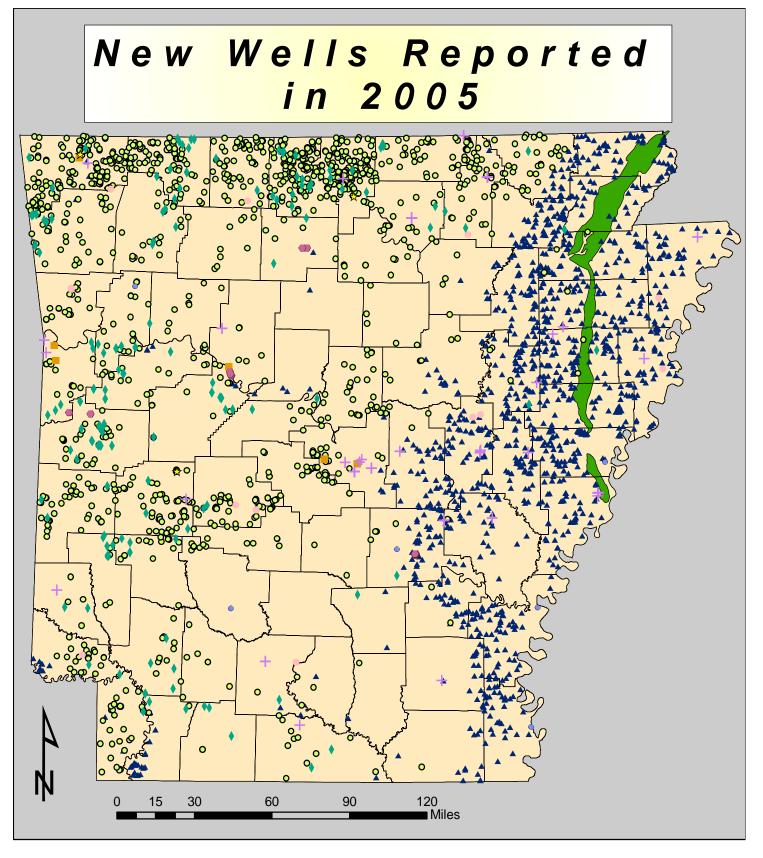
	Contractors License Drill and Pump	Pump Installer Contractors Only	Drillers Registrations	Pump Installers Registrations	Driller Apprentice Registrations	Pump Installers Apprentice Registrations	Riggs
2002	186	54	316	313			444
2003	176	56	303	300			383
2004	148	37	283	271			389
2005	142	34	276	254			369
2006	149	34	305	271	7	11	393
2007	148	32	286	282	17	27	375

## **Flow Meter Report**

According to Act 1426 of 2001, any well constructed after September 30<sup>th</sup>, 2001 to withdraw ground water from a sustaining aquifer, shall be equipped with a functioning metering device. After September 30<sup>th</sup>, 2006 any well withdrawing ground water from a sustaining aquifer shall have a functioning metering device. Domestic wells are exempt from metering requirements.

The aquifers affected are sustaining aquifers. The sustaining aquifers in Arkansas include the Sparta, Memphis, Cockfield, Cane River, Carrizo, Wilcox, Nacatoch, Roubidoux and Gunter.

This year a field inspection of wells requiring meters was performed in several counties in Arkansas. On average, about one third of the total number of wells inspected had metering devices installed. The number of meters on newly constructed well is much higher. Installing the meters is costly, but most farmers are seeing benefits for installing the meters and are getting more accurate data about their water use, therefore saving on fuel cost. A flow meter also helps with maintaining the wells performance. Most of the well owners talked with are installing meters when the wells are pulled for maintenance and repairs. A lot of the wells are requiring extensive reworking because there is not enough room between the well and the standpipe to install the meter.



## Legend

Geo-thermal

- + Monitoring
- Livestock/Poultry
- ★ Semi-Public
- Test Wells
- CommercialPublic
  - Domestic

0

Crowleys Ridge County Boundaries

Irrigation



### **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. The USGS reported for 2005 there were approximately 47,809 registered wells reported in the State. Of this total, 46,763 (97.8%) are agricultural wells most of which are irrigation wells located primarily in eastern Arkansas. The remaining 1,046 reported wells are used predominately for municipal, industrial, and public water supply purposes.

#### **REPORTED WATER USE**

In 2005, an estimated 7510.24 million gallons per day (mgd) of water were reported to be withdrawn from the State's aquifers. The greatest reported volume is pumped from the alluvial aquifer and used primarily for irrigation. Poinsett County and Cross County used the most alluvial water of all counties, with 678.17 mgd and 592.27 mgd respectively. The reported total ground-water use from the alluvial aquifer during 2005 was 7252.82 Mgal/d. The Sparta/Memphis aquifer is the second largest aquifer in terms of withdrawals. The reported ground-water use from the Sparta/Memphis aquifer for 2005 was 169.81 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 50.38 Mgal/d, followed by Arkansas County with a rate of 36.03 Mgal/d. (Holland, 2007)

Table 2 contains the reported ground-water use by aquifer per county in Arkansas for 2005 and is also broken down by category of use. This is the most recent

information as supplied to the ANRC by the USGS.

The Sparta/Memphis aquifer had a reported average withdrawal of 169.81 Mgal/d during the 2005 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 leading user of this aquifers' resources, with an average withdrawal of 36.03 Mgal/d. Jefferson County is the largest user of Sparta/Memphis ground-water by far, with an average withdrawal of 50.38 Mgal/d. (Table 2) Figure 40 shows water use in million gallons per day (mgd) for the entire state from 1965 to 2005 in increments of 5 years. Figure 41 shows the quantity of ground water use for each county in Arkansas as reported.

The estimated sustainable yield of the Sparta/Memphis aquifer is discussed in the following section of this report, however the relation to this figure and reported water use are significant. The 2005 reported ground-water use from the Sparta/Memphis aquifer was an estimated 59.79 Mgal/d for agricultural uses, 60.86 Mgal/d for public supply use, and 48.41 Mgal/d for industrial uses, which combine with other uses for an estimated total use of 169.06 Mgal/d. The estimated sustainable use for the entire aquifer is 83 Mgal/d based on 1997 reported water use. This leaves a deficit of 86.06 Mgal/day, or 51% of the 1997 rate that is an unmet demand. (Holland, 2003, 2005)

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0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0
0         000         0         000         0         000         0         001         0         015         0          0         0000         0         0000         0         0000         0         0119         200          0         0000         0         0000         0         0015         0         0119         200           0         0000         0         0000         0         0000         0         0119         200           0         0000         0         0000         0         0000         0         0126         0         0137         129           0         0000         0         0000         0         0000         0         0000         0         137         129           0         0000         0         0000         0         0000         0         0000         0         137         129           0         0000         0         0000         0         0000         0         0000         0         0101         0         0000         0         0101         0101         0101           0         0         0         0         0         0
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0         0
0         0.000         0         0.000         0         0.000         0         161         15           0         0.000         0         0.000         0         0.000         0         2.87         2.31           0         0.000         0         0.000         0         0.000         0         0.01         1         0           0         0.000         0         0.000         0         0.000         0         1.37         1.2           0         0.000         0         0.000         0         0.000         0         0.01         1.37         1.3           0         0.000         0         0.000         0         0.000         0         1.37         1.3           0         0.000         0         0.000         0         0.000         0         0.01         0         0.01         1.37         1.3           0         0.000         0         0.000         0         0.000         0         1.31         1.31           0         0.000         0         0.000         0         0.000         0         0.000         0         1.31         1.31           1
0         0.00         0         0.00         0         0.00         0         0.00         0         2.87         2.31           0         0.000         0         0.000         0         0.000         0         0.01         0         0.01         1         1         1           0         0.000         0         0.000         0         0.000         0         0.01         1         1         1         1           0         0.000         0         0.000         0         0.000         0         0.000         0         1 <td< td=""></td<>
0         000         0         000         0         000         0         000         0         013         1           0         000         0         000         0         000         0         001         1         1           0         000         0         000         0         000         0         137         12           0         000         0         000         0         000         0         137         12           0         000         0         000         0         000         0         137         12           0         000         0         000         0         000         0         137         12           0         000         0         000         0         000         0         137         13           0         000         0         000         0         000         0         137         13           0         000         0         000         0         000         0         000         0         137         13           0         000         0         000         0         0000         0
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0         000         0         000         0         000         0         157         1           0         0.000         0         0.000         0         0.000         0         0.00         0         1.20         10           0         0.000         0         0.000         0         0.000         0         0.000         0         1.20         10           0         0.000         0         0.000         0         0.000         0         0.000         0         1.20         10           0         0.000         0         0.000         0         0.000         0         0.000         0         1.20         10           0         0.000         0         0.000         0         0.000         0         0.000         0         0.00         0         0.00         0         1.1           0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.
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0         0.000         0         0.10         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.001         0         0.001         0         0.001         0         0.001         0         0.001         0         0.001         0         0.001         0         0.001         0         0.001         0         0.011         0         0.011         0         0.011         0         0.011         0         0.011         0         <
0         0.00         0         0.27         3         0.00         0         0.00           0         0.000         0         0.27         3         0.00         0         0.00           0         0.000         0         0.66         5         0.07         2         0.00         0         0.01           0         0.000         0         0.43         6         0.07         2         0.00         0         0.01           2         0.000         0         0.43         6         0.07         2         0.00         0         0.01           2         0.000         0         0.43         6         0.07         2         0.00         0         0.01           2         0.000         0         0.00         0         0.01         0.01         0.01
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0 000 0 000 0 000 0 000 0

	Use	Quaternary age	ary I	Cockfield Formation	tion	River Formation	ion i	Sparta- Memphis Sand		Group		Formation	. 5	Sand		Formation	-	Group	Paleozoic			
County.	Type		Wells	Sum	1	Sum	Volls	Sum	lefts.	Sum W	-	Sum N		Sum W		3		3	Sum	Wolls	Totals	Aller .
	WS/DO	0.45	5	00.0	+	0000		000	+	0000	0 0	000		180		000	0	0.00	3.69	18	471.05	2423
	Total	400.05	2331	8.0	-	0000		00'0	-	20.0	t	2010	t		t	L						
CLEBURNE	AGAR	0.00	0	0000	0	0.00	0	00.0	t	0.00	0	0.00	H	0.00	Н	0.00	0	0.00	0.24	-	0.24	-
	WS/DO	00.00	0	0.00	F	0.00	0	00:00	0	000	0	000	0	800	0	_			0.17	CN I	0.17	2
	Total	0.00	0	0.00	0	0.00	•	0.00	H	0.00	0	0.00	+	0.00	t	4	0		0.41	-	0.41	2
	-	1 A.C.		12.0	+	VVV	<	0.00	$^{+}$	1000	+	000	t	000	t	1	t		0.00	0	0.12	•
CLEVELAND	AGAR	000	•	0.0	t	0.00		0.16		200	2 1	2000	t	200	t	Ļ	t	L	0.00	6	0.61	
	WS/DO	0000	-	800	+	0.00		100	$^{+}$	000	+	0.00		000		000	0	0 00 0	0.00		0.73	-
	Total	0.00	•	800	•	0.00	-	0.73		00.0		00'0	t	-	t	1	t		~			
			1	1000	-	000	4	0.40	<	000	4	000	0	001	t		t	0 00	00.0	0	0.12	12
COLUMBIA	AUR	200		300		300		206	t	000	╉	000	t	0.00	0	L	0	0.03	000	0	2.08	65
		0000		000	t	000	0	144	t	000	t	0.00	0	000	t	L	F	00	0.00	0	1.44	22
	Total	0.00	-	000		0000	0	3.61	3	0.00	0	0.00	H	0.00	0	0.00	0	0.03 1	0.00	0	3.64	65
									Н		H		H	-	+	4	+	1	000	<	1 1 1	:
CONWAY	AGIR	2.33	7.4	0.00	0	0.00	0	0000	0	000	•	000	+	00.00	+	1	+	00	000		010	2
	WS/DO	0.18	0	000		000	0	0.00	1	0.00	+	000	0	0.00		0.00	0 0	0.00	000		0.10	*
	Total	2.51	15	0.00	•	0.00	•	0.00	•	0.00	0	0.00	+	00.00	t	1	$^{+}$	0	00.0	•	10.7	2
CRAMMER	ACIED	247.97	- anot	000	0	0.00	0	3.60	95	000	0	000	0	000	0	00	0		00'0	0	350.97	3120
ANUMERU	- COMMIN	000	1 AMO	000		000	0	000	0	000	┝	000	t	000	t	00			0.00	0	0.08	-
	WSDO	2.63	~	000	0	000	0	10.54	~	0.81	+	0.00	H	0.00	0	0.00	0	0.00	00.0	0	13.98	36
	Total	350.08	3099	0.00	0	0.00	0	14.14	61	0.81	7	0.00	0	0.00	0	00	0		0.00	•	365.03	3157
and a state	-	000		VVV	<	000	-	000	0	000	+	0.00	0	000	0	8	0		00.0	0	0.29	•
CRAWFORD	AUNIN	0.49	ьс	200		000		000		000	┝	000	t	000	t	8	t	L	0.00	0	0.65	0
	Total	0.94		000		0.00		000		0.00	0	0.00	0	0.00	Ħ	0.00	0	0.00	0.00	0	0.94	m
											Н		H				1		4.44		100.00	1000
CRITTENDEN	AGIR	150.56	1239	0.00	0	0.00	0	000	0	0.00	+	000	+	0.00	+	00	+	000	0.00	0 0	00.001	1671
	CORNAMI	0.30	-0	0.00	0	80	0	000	0	0000	+	000	0 0	000		000			000		8.66	1
	WS/DO	0.56	0	00.0		800		000		80.0	24	000	t	0.00	t	0.00	t	0.00	0.00	0	159.51	1265
	10(3)	191.44	14471	8.0	-	200	>	2012		-	┝		t		t		t	L				
CDOCC	ACAD	500.47	9408	000	0	0 00	•	5.98	0	0.00	0	0.00	t	0.00	0	00.0	0	0 000	0.00	0	596.45	2205
2222	CONNIN	0.40	4	0.00	0	0000	0	000	0	0.00	0	0.00	0	0.00	0	0.00		0 00	000	0	0.40	-
	WSIDO	1.40	-	0.00	0	0000	0	1.04	4	000	0	0.00	0	0.00	0	00			0.00	0	2.44	12
	Total	592.27	2205	0.00	0	0.00	0	7.02	16	0.00	0	0.00	0	0.00	0	00.	0	00	00'0	•	599.29	2221
													+	-	+	1	t		000	-	0.03	4
DALLAS	AG/IR	0.00	0	0.00	0	0.00	•	0.02	•	000		800	+	000	t	0.00		200	000	2	1 46	2
	W\$/DO	0.00	0	0.00	0	0.00	•	1.45		0.00		0.00		000	t	3 2	t		0.00		147	0
	Total	0.00	0	0.00	•	0.00	•	1.47	-	0.00	•	0000	$^{+}$	0.00		201	$^{+}$		0.0			
APRIL A	1000	1000	1000-	12.	-	800	e	0.00	-	0.00	0	000	t	000	t	00	t	0 00	0.00	0	298.97	1997
DESHA	AGIN	1000	A DOAL	500		0000		310		000		0 00	0	0.00	0	000	0		00.0	0	3.19	-
	COUNTIN	000		200		2000		214	11	000	, 0	0.00	t	00.0	t	00	t	0.00.0	0.00	0	2.18	12
	Total	297.34	1990	1.58	7	0.00	0	5.42	25	0.00	0	00'0	0	0.00	0	0.00	0	0 00	0.00	0	304.34	2014
																-	-					1
				I	I		ŀ	1000		A AA	<	0000	<	A.MA	1	0.00	ç	0.000	0000	0	74.55	C DEC

	Quaternary	2	Formation	Log	River		Memphis		Group		Formation		Sand	F	Formation		Group	PAREOZONC	100		
Use	age	Muniter .	Sum V	faile f	Formation Sum Well	in the second	Sand		A mark	and a	Sum W	alla B	No. Wa	atta S	Sum W	die Si	Sum Web	Sam a	Netta	Totals	Wells
Total	74.58	546	0.00	0	0.00	0	2.82	1	0.00	0	0.00	0	0.00	0	Н	0	0.00	0.00	•	77,40	557
AGAR	1.23	12	00.0	0		Н	00.0	Ħ	000	+	000	0		Ħ		Ħ	8	0.18	0	1.41	12
WS/DO	0.99	80 R	000	0 0	0000	0 0	00.0	00	000		800	$^{+}$	000		000	0 0	0.00	0.18	0 0	2.40	20
		t		Ħ		+		+	~	H		H		Ħ		Ħ					
AGAR	0.39	3	0.00	0		0	00.0	H	0.00	0	0.00	0 0		Н			0 00	0.01		0.40	2
Other	0.00	N	0.00	H		Η	000	Н	0.00	H	000		-	+	-			000	0	0.00	2
WS/DO	0.00	•	0.00		0.00		000	0	000		000	0 0	0000	00	000			000	- 0	0.40	
Inter		,	2	t	1	t		t	2	+	~~~~	t	+	t	1	t			+	-	•
AGAR	0.00	0	0.00	0	0.00	0	00.0	0	0.00		000	0		Ħ		Ħ		0.69	-	0.59	+
COMNIMI	0.00	-	0.00	0		0	000	Н	000	Η	0.00	H		Η			0	000	4	0.00	r
VS/DO	0000	0	000	1	0.00	+	000	0	000	+	0.00	+	0.00	+	000	0	0 00 0	137		1.37	
Total	0.00	-	0.00	•		-	000	+	0.00		0.00	-	+	0	+	t	8	8	•	1.96	10
AGAR	000	0	000		0.00	6	000	0	00.00		000	0	1	0	L	t	0	90 0	0	0.06	0
CONNIN	000	-	000	t	1	t	000	t	000	┝	000	t		t		0 0	0.00	0.05	4	0.06	\$
VS/DO	0.00	0	0.00	t		t	00.0	t	0.00	⊢	0.00	t	0.00	0 0		T		0.20	4	0.20	4
Total	0.01	-	0.00	H	0.00	Н	0.00	0	0.00	Н	0.00	0		H	Ц	H	0	0.32	-	0.32	6
ACID	000	0	000		000	0	30	+	80	0	0.00	$^{+}$	+	$^{+}$	+		8	000	0	0.30	2
CONNIN	000	t	000	t	1	t	115	10	0000	┢	000	0	1	0	1	t		000	+	0.15	
WS/DO	0.00	t	00.0	t	0.00	t	2.15	t	0.00	0	000	t		t	0.00	0 0	0 00 0	0.00		2.15	14
Total	0.00	0	0.00	0	Ц	Н	83	22	0.00	Н	0.00	H	Ц	H	Ц	Ħ	0	0.00	4	2.60	22
ACID	047.40	UTUS.	000	$^{+}$	000	-	000	+	4 7.9	-	000	0	+	0	+	+	8	000	0	219.14	1921
CONNMI	0.13	÷	000			t	0.00	0	0.08		000	t	000	t	0.00	0	0 00 0	00.00	0	0.21	4
WS/DO	0.05	0	0.00	t		t	000	H	3.75		0.00	H		3 0				00.00	0	4.28	13
Total	217.60	2011	0.00	0	0.00	0	00.0	H	5.55	2	0.00	H		H	Ц	H	° 8	0.00	•	223.63	1918
AGAD	wo	-	000		000	-	000	0	800		000	0	+	0	1	+	0 00	000	0	0.58	0
CONNIN	0000	t	000	t	L	t	000	t	0000	ł	000	t		t		0		00.0	0	0.01	2
WS/DO	000	t	0.00	t	0.00	t	0.00	0	00.0	0	000	0	1.33	0	2.10	t	0.00 0	00.0	0	3.43	19
Total	0.00	•	0.00	0	Ц	0	00.0	H	0.0	H	0000	H	4	H	Ц	13 0.		0.00	•	4.02	12
AGAR	0.00	0	0 00		000	0	00		000		0.00	0	000	0	1	0	0	0.11	0	0.11	•
CONNME	0.00	t	0.00	t		H	000	H	0.00		0.00	H		H	0.00		0.00	0.00	9	0.00	\$
WS/DO	0000	0	0.00	0			000	0	0.00		0.00		0.00	0		0 0	0 00	0.16	-	0.16	-
Total	0.00	•	0.00	0	0.00	0	000	0	0.0	0	0.00	0		H		H		0.27	9	0.27	10
AGAR	0.00	0	0 00			0	000	t	00.0	+	0.00	t		t	1	t		0.00	0	0.31	•
CONNIMI	0.00	t	000	t	0.00		000	0	000	0	0.00	0		0	0.00	1	0.00	0.00	0	0.00	-
WS/DO	0.00	0	0.00	0		$\vdash$	000	H	00.0	+	000	H						0000	0	0.19	\$
Total	0.00	Ħ	0.00	Ħ	0.00	Н	00.0	0	0.00	•	00'0	0	0.00	0	Ц	6 0	000	0.00	0	0.50	9
AGIR	40.45	900	0 00	0		0	000	+	000	+	000	+	+	+				000	0	40.45	2962
Other	0.47		000	t	0.00	t	000	0	000	0	000	0	000	0	0.00	0	0.00	00.0	0	0.47	
WS/DO	0.92	t	0.00	t	L	t	000	t	00.0	┝	0.00	t	L	t	L	F	L	000	0	0.92	-
				1				1				1		1		1			-		-

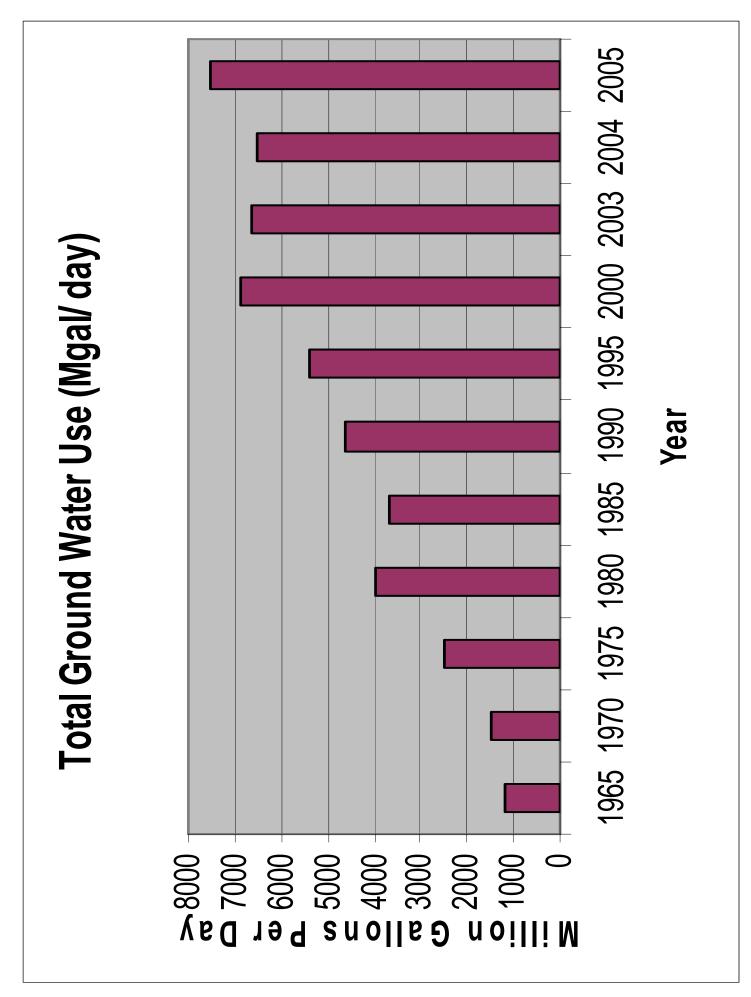
Outstring         Formation         Normalia			Deposits of	is of	Cockfield	etd	Cane		Sparta-	F	Wilcox	Cla	Clayton	Macatoct	och .	Tokio		Trinky	P.a.	Rocks of Paleozoic	Use Type	
Upper Modeline         Modeline (modeline)         Modeline)         Modeline         Modeline         Modeline)         Modeline         Modeline)         Modeline         Modeline)         Modeline         Modeline)         Modeline         Modeline)         Modeline)         Modeline			Quatern	Aue	Format	uos	River		undung		dnous									<b>306</b>		
MGN         750         0         000         0         000         0		ONO	90	and and	Sum U	Autor 1	Tormation	1 S.	Diana a	100	m Well	a Sum	Wells	Sum	Wells	Sum V	Volts . 5	am We	the Sum	m Web	Totals	Wells
WEND         7000         0         0000         0         0000         0         0         0000         0         0         0000         0         0         0000         0         0         0000         0 <td>County</td> <td>ad A</td> <td>auto</td> <td>A LO LA</td> <td>A AM</td> <td></td> <td>100</td> <td>0</td> <td></td> <td>t</td> <td>L</td> <td>0.00</td> <td>0</td> <td>000</td> <td>F</td> <td>0.00</td> <td></td> <td></td> <td>0.64</td> <td>4 2</td> <td>0.64</td> <td>2</td>	County	ad A	auto	A LO LA	A AM		100	0		t	L	0.00	0	000	F	0.00			0.64	4 2	0.64	2
With the image of the	IZARD	AURA	2000		300	t	00	00	+	t		000	0	0.00		0.00		0 000		-	1.15	16
Nome         Nome         Nome         Nome         Nome         Nome         No		Total	0.00	0	000	t	1	0	+	t		0.00	0	0.00	Н	0.00	Н	0 00.0	1.79	90 90	1.79	18
AGINE         33104         74:30         30104         50:30         50         0         000         0         0000         0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>t</td> <td>L</td> <td>-</td> <td>┝</td> <td>H</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>+</td> <td>4</td> <td></td> <td>1000</td>						t	L	-	┝	H							1		+	4		1000
Wistor         146         141         0.00         0         0	ACKSON	AGUR	381,04	2458	0.00	H		0.4		H		000	0	0.00	0	0.00	+		000	+	201-10	10407
Total         382.76         247         0.00         0         0.42         2         0.00         0         0.00         0         0.00         0         0.00         0         0.00         0        <		W\$/DO	1.66	3.4	00.0	F		0.0	-			0000	0	0.00	0	000	1	1	+	+	1.99	1210
AGIR         2008         1         0 </td <td></td> <td>Total</td> <td>382.70</td> <td>2472</td> <td>0.00</td> <td>Н</td> <td></td> <td>0</td> <td>H</td> <td>Н</td> <td></td> <td>00.0</td> <td>0</td> <td>0.00</td> <td>•</td> <td>0.00</td> <td>+</td> <td>0000</td> <td>+</td> <td>0</td> <td>363.14</td> <td>2414</td>		Total	382.70	2472	0.00	Н		0	H	Н		00.0	0	0.00	•	0.00	+	0000	+	0	363.14	2414
AGIR         5.2.02         1561         0.00         0         0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4</td> <td>+</td> <td>4</td> <td>10.0</td> <td>1</td> <td>1000</td> <td>4</td> <td>000</td> <td>t</td> <td></td> <td>t</td> <td>9</td> <td>220.82</td> <td>101</td>									4	+	4	10.0	1	1000	4	000	t		t	9	220.82	101
CONVAMI         6.42         7         0.00         1         0.00         0	JEFFERSON	AGIR	220.82	1581	0.00			0	4	+	-	000	-	0.00	2	000	t	0 000	000	Ļ	42.65	2
Other         000         0		CONNIM	6.42	2	0.00			36			_	00.00	•	800	0	000	t	1	t	+	10.4	-
WEGO         012         0         000         0         0		Other	000	0	1.97	t		0			_	0.00	0	000	0	0.00	1		t	4	18.1	-
Totai         227.36         1980         1971         2         0.00         0         0 </td <td></td> <td>WSIDO</td> <td>0.12</td> <td>•</td> <td>000</td> <td>t</td> <td></td> <td></td> <td></td> <td>Н</td> <td></td> <td>0000</td> <td>0</td> <td>0.00</td> <td>0</td> <td>00.0</td> <td>1</td> <td></td> <td>000</td> <td>+</td> <td>14.31</td> <td>76</td>		WSIDO	0.12	•	000	t				Н		0000	0	0.00	0	00.0	1		000	+	14.31	76
AGIR         331         14         000         0		Total	227.36	1588	1.97	t				Н		0.00	0	0.00	0	0.00	1	0.00	+	0	11.812	1001
AGIRE         031         14         000         0 <th< td=""><td></td><td></td><td></td><td></td><td></td><td>t</td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>+</td><td>1</td><td>+</td><td>4</td><td>1.1</td><td>1</td></th<>						t		-									+	1	+	4	1.1	1
CONNUM         001         1         000         0 <th< td=""><td>NUNNON</td><td>AGAR</td><td>0.31</td><td>14</td><td>000</td><td>t</td><td></td><td>t</td><td>-</td><td></td><td></td><td>000</td><td>0</td><td>0.00</td><td>0</td><td>0.00</td><td>1</td><td>0000</td><td>+</td><td>+</td><td>0.31</td><td>-</td></th<>	NUNNON	AGAR	0.31	14	000	t		t	-			000	0	0.00	0	0.00	1	0000	+	+	0.31	-
Tetal         0.05         15         0.00         0         0	NOCHION	CONNUM	0.01	-	0.00	t		t	-			0.00	0	0.00	0	000	1	1	+	0.00	100	-
Main         Sint         Sint <th< td=""><td></td><td>Total</td><td>0.05</td><td>15</td><td>0.00</td><td>t</td><td>L</td><td>t</td><td></td><td></td><td></td><td>0.00</td><td>0</td><td>0.00</td><td>0</td><td>0.00</td><td>1</td><td>_</td><td>+</td><td>+</td><td>20.32</td><td>2</td></th<>		Total	0.05	15	0.00	t	L	t				0.00	0	0.00	0	0.00	1	_	+	+	20.32	2
AGIR         3776         226         000         0 </td <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>T</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>1</td> <td>1</td> <td>+</td> <td>4</td> <td></td> <td>2</td>		-				T		-								1	1	1	+	4		2
CONNAMI         000         0         0         000 </td <td>I AFAVETTE</td> <td>AGIR</td> <td>37.79</td> <td>2/6</td> <td>0.00</td> <td>t</td> <td></td> <td>H</td> <td></td> <td></td> <td></td> <td>00.00</td> <td></td> <td>0.00</td> <td>0</td> <td>000</td> <td>1</td> <td></td> <td>+</td> <td>0000</td> <td>31.19</td> <td>8</td>	I AFAVETTE	AGIR	37.79	2/6	0.00	t		H				00.00		0.00	0	000	1		+	0000	31.19	8
Other         016         0         0100         0         0000         0		CONNAI	000	0	0.00	t						0.00		000	0	0.00	1		+	+	00.0	-
WENDO         034         0         000         0         010         0         000         0		Other	0.18	0	0.00	t	L	t		-		000	_	0.00	0	0.00	1		+	B	0.0	•
Tetal         33.1         226         0.00         0         0.42         10         0.00         0		WS/DO	0.34	0	0000	t	L		_			0.00	-	000	0	000	1		+	+	11.1	100
AGIR         220.91         1765         000         0         013         1         000         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0		Total	38.31	225	0.00	t	0.67 7	0		H		0.00	-	0.00	•	0.00	1		0	000	38.40	240
AGirk         220.91         1768         000         0						T		H		-	4	+	+				1		t	+	934.44	4773
CONNNI         0.24         3         000         0 </td <td>LAWRENCE</td> <td>AGAR</td> <td>220.91</td> <td>1768</td> <td>0.00</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>+</td> <td>-</td> <td>0000</td> <td>0</td> <td>000</td> <td>t</td> <td></td> <td></td> <td>0 100</td> <td>0.96</td> <td>+</td>	LAWRENCE	AGAR	220.91	1768	0.00				-			+	-	0000	0	000	t			0 100	0.96	+
WS/DO         105         2         000         0		CONNIMI	0.24	3	0.00		_	-	-	1		+	+	100	-	200	t	1	t	ł	10.0	Į.
Total         222.20         1773         0.00         0 <td></td> <td>WS/DO</td> <td>1,05</td> <td>2</td> <td>0.00</td> <td></td> <td></td> <td>-</td> <td>_</td> <td>1</td> <td>-</td> <td>+</td> <td>+</td> <td>0000</td> <td>•</td> <td>0.00</td> <td>t</td> <td>1</td> <td></td> <td>0 00</td> <td>16 166</td> <td>1701</td>		WS/DO	1,05	2	0.00			-	_	1	-	+	+	0000	•	0.00	t	1		0 00	16 166	1701
AGIR         265.79         2108         000         0         0         000         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0		Total	222.20	1773	0.00	H	-	+	+	+	1	+	+	0.01	-	0.00	t		t	+		
AGIR         265.79         2103         000         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0						+	4	+	+	+	4	$^{+}$	+	000	0	0.00	t		0	00	265.79	2108
WSDO         0.07         1         0.00         0         0         0.00         0         0	LEE	AGIR	265.79	2108	000	+	4	+	+	t	4	+	+	200	0	000	t		t	0 000	1.00	⊢
Totali         265.56         2109         0.00         0 <td></td> <td>WS/DO</td> <td>0.02</td> <td>-</td> <td>0.00</td> <td>+</td> <td>4</td> <td><math>^{+}</math></td> <td>+</td> <td>t</td> <td>1</td> <td><math>^+</math></td> <td>+</td> <td>000</td> <td>0</td> <td>0.00</td> <td>t</td> <td>L</td> <td>t</td> <td>0</td> <td>266.79</td> <td>2111</td>		WS/DO	0.02	-	0.00	+	4	$^{+}$	+	t	1	$^+$	+	000	0	0.00	t	L	t	0	266.79	2111
AGIR         181.65         1106         0.00         0         0.20         3         0.00         0		Total	265.86	2109	0.00	t	+	$^{+}$	+	t	1	+	╀				t	L	t			
Additive by S/DO         100 (100)         100	1110001	40.00	101.00	0011	000	t	4	t	+	t	1	+	┝	00.0	0	0.00	Н		0 0	0.00	181.82	٣
Total         1105         0.00         0         1.20         1.20         1.20         1.20         0         0         0.00         0         0         0.00         0         0.00         0         0         0.00         0         0         0         0         0         0         0         0         0         0         0         0         0	LINCOLN	Menor	00.00	0	000	t	Ļ	t	┡	t	L	┝		000	0	0.00			+	-	1.05	+
AGIR         3.42         22         0.00         0		Total	181.67	1109	0.00	t	L	H	H	Н		Н		0000	0	0.00	1		0	00	182.87	6711
AGirk         3.42         22         0.00         0         0         0.00         0         0         0         0         0         0         0         0         0         0         0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>4</td> <td>H</td> <td>4</td> <td>+</td> <td>+</td> <td>0.00</td> <td></td> <td>000</td> <td>t</td> <td></td> <td>0</td> <td>0</td> <td>3.42</td> <td>22</td>								-	4	H	4	+	+	0.00		000	t		0	0	3.42	22
CONNMI         0.30         3         0.00         0         0         0.00         0         0         0         0         0         0         0         0         0         0         0 <td>LITTLE RIVER</td> <td>AGAR</td> <td>3.42</td> <td>22</td> <td>0.00</td> <td>1</td> <td>4</td> <td>+</td> <td>+</td> <td>+</td> <td>1</td> <td>+</td> <td>+</td> <td>2000</td> <td>0</td> <td>000</td> <td>t</td> <td></td> <td>t</td> <td>0 000</td> <td>┝</td> <td>00</td>	LITTLE RIVER	AGAR	3.42	22	0.00	1	4	+	+	+	1	+	+	2000	0	000	t		t	0 000	┝	00
WS/DO         071         6         0.00         0         0         0.00         0         0.00         0         0		CONNIMI	0.30	10	0.00	+	1	$^{+}$	+	t	1	t	+	000	0	000	t		t	L	┝	9
Total         4.43         36         0.00         0		WS/DO	0.71		0.00	t	4	t	+	t	1	t	ł	000	0	0.00	t		t		$\vdash$	35
AGIR         0.79         24         0.00         0		TOCAL	4.43	8	0.00	t	1	t	╀	t	1	┝	┝						Η	-	-	-
WS/DO         0.86         0         0.00         0	1 OCAN	AGR	0.70	24	000	0		t	-	t		H		000	0	0.00			+	+	+	24
Total         1.65         24         0.00         0	LUGAN	WSDO	0.86	0	000	0	L	t	-	H		Н	-	0.00	0	0.00	1	_	0	000	0.85	•
AGIR         408:59         2475         0.00         0         7.56         31         0.06         1         0.00         0 <td></td> <td>Total</td> <td>1.65</td> <td>24</td> <td>0.00</td> <td>0</td> <td></td> <td>Н</td> <td>H</td> <td>Н</td> <td></td> <td>H</td> <td>-</td> <td>0.00</td> <td>•</td> <td>0.00</td> <td>+</td> <td></td> <td>t</td> <td>8</td> <td>+</td> <td>ş</td>		Total	1.65	24	0.00	0		Н	H	Н		H	-	0.00	•	0.00	+		t	8	+	ş
AGNR 408.59 2475 0.00 0 0.00 0 7.56 31 0.00 1 0.00 0 0 0.00 0 0.0							Ц	+	+	+	1	+	+	2000	0	000	t		t	0 00	416.21	2696
	LONOKE	AGUR	н		00.0	0	4	+	+	+	4	+	+	0.00	0	300	t		t	+	┝	⊢
		CONNIMI	-		00.0	0	4	$^{+}$	+	+	+	t	+	2000	0	0000	t		0	0 00 0	7.04	2
330 14 030 2 0.00 0 1.77 0 0.00 0 0.00 0		WS/DO	+	_	0.90	~	4	t	+	t	1	+	+	000	0	000	t		t	0 00	┝	-
		inter i	۲	4		1	ł	ł	1	ŧ.												

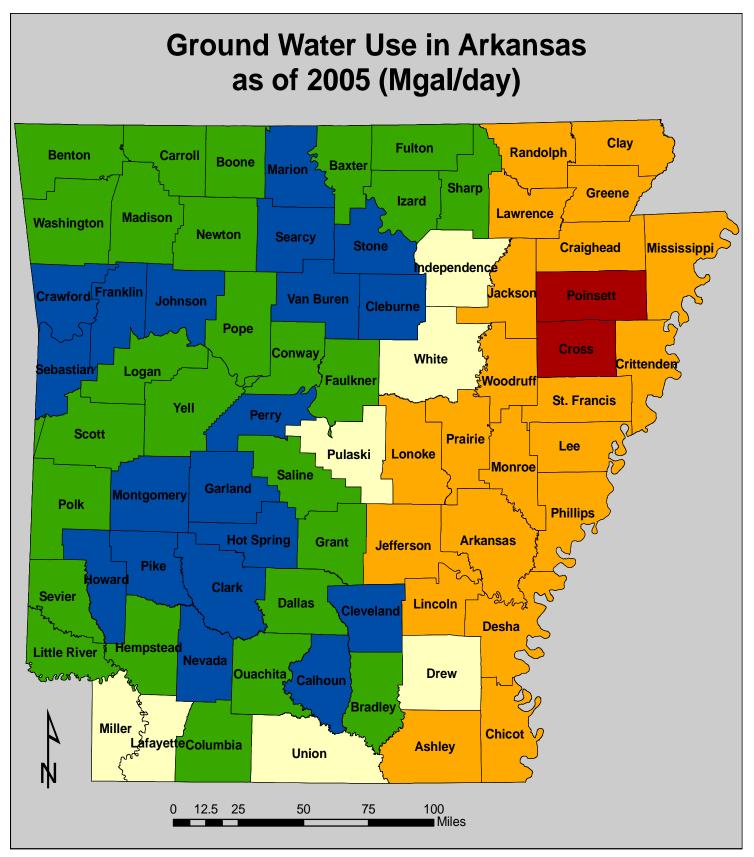
Sum         Sum         North			Quatemany of	in the	Formation	ntion	River	-	Memphis		Group		Formation		Sand		Formation	7	Group	Part	ozoic	Pateozoic
Mix Gine0.0000.00000.00000.00000.00000.000000.000000.000<	County	Type	Sum	Wette	Sum	Weils	Sum V		Sam	1	N min	1	am W	ella S	w m	ette Sa	m We	its Sur	a Wells	Sum W		India To
Wission0.0000.00000.00000.00000.00 <td>MADISON</td> <td>AGIR</td> <td>000</td> <td>0</td> <td>000</td> <td>0</td> <td>0.00</td> <td>t</td> <td>000</td> <td>t</td> <td>000</td> <td>H</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.55</td> <td></td> <td>0.55</td>	MADISON	AGIR	000	0	000	0	0.00	t	000	t	000	H	-							0.55		0.55
TotalDateD		WSIDO	000	0	000	0	000		000	H	000	H	-	H						0.60	2.4	
AGNR1000 <td></td> <td>Total</td> <td>0.00</td> <td>•</td> <td>000</td> <td>•</td> <td>0.0</td> <td>H</td> <td>000</td> <td>H</td> <td>000</td> <td>+</td> <td>-</td> <td>+</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td>		Total	0.00	•	000	•	0.0	H	000	H	000	+	-	+						-	-	-
CONNMIN00	MARION	AGIR	000	0	000	0	000	0	000	+	000	+	+	+	-	0	-	+		+	10	0.18
Westor00 <td></td> <td>CONNI</td> <td>000</td> <td>0</td> <td>0.00</td> <td>0</td> <td>0.00</td> <td>0</td> <td>000</td> <td>t</td> <td>000</td> <td>+</td> <td></td> <td>H</td> <td></td> <td>H</td> <td></td> <td>Н</td> <td></td> <td></td> <td>ini.</td> <td>0.01</td>		CONNI	000	0	0.00	0	0.00	0	000	t	000	+		H		H		Н			ini.	0.01
Total0.0000.0000.0000.0000.00		WSIDO	0.00	0	0000	0	000	0	000	H	000	H	-	-						_	-	0
AGIN         153         170         100         0         000         0 <th< td=""><td></td><td>Total</td><td>0.00</td><td>•</td><td>0.00</td><td>•</td><td>0.0</td><td>0</td><td>0.00</td><td>H</td><td>0.00</td><td>H</td><td>+</td><td>H</td><td></td><td></td><td>-</td><td></td><td></td><td>-</td><td>5</td><td>•</td></th<>		Total	0.00	•	0.00	•	0.0	0	0.00	H	0.00	H	+	H			-			-	5	•
Wischo0 5520 0000 0000 0000 0000 000<	MILLER	AGAR	15.29	92	000	0	000	0	0.02	-	000	+	+	+	+	$^{+}$	+	t		+	0	15.31
Total         16.4         76         0.00         0         0.00         0		WS/DO	0.85	2	000	0	000	0	0.02	t	010	⊢	+	t		t		F				0.97
AGM21102126000<		Total	16.14	18	0.00	•	0.0	0	0.04	H	0.10	H	$\mathbb{H}$	H	$\square$	H	4	H		-		16.28
CONNNN         022         1         0200         0         0200         0         0000         0	ICCICCIPTI	AGIR	271.05	2020k	000	0	0.00	0	000	+	0.50	-	+	+	+	+	+	+		+		2
WGDO0123000012300000000000000000000000Total217.150100000000000000000000000Total217.152140000000000000000000000WSDO0172000000000000000000000000WSDO0172000 <t< td=""><td></td><td>COINWI</td><td>0.02</td><td>-</td><td>000</td><td>0</td><td>000</td><td>0</td><td>000</td><td>t</td><td>214</td><td>t</td><td>-</td><td>t</td><td>1</td><td>t</td><td>L</td><td>t</td><td>L</td><td>-</td><td>0</td><td>2.16</td></t<>		COINWI	0.02	-	000	0	000	0	000	t	214	t	-	t	1	t	L	t	L	-	0	2.16
Total         271:15         0300           VGNDM         0 <td></td> <td>WS/DO</td> <td>0.12</td> <td></td> <td>0.00</td> <td>0</td> <td>0.00</td> <td>0</td> <td>000</td> <td>H</td> <td></td> <td>H</td> <td></td> <td>H</td> <td></td> <td>Н</td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td>4</td>		WS/DO	0.12		0.00	0	0.00	0	000	H		H		H		Н				4		4
AGIR         21/5         01/5 <th< td=""><td></td><td>Total</td><td>271.19</td><td>2030</td><td>0.00</td><td>•</td><td>0.00</td><td>•</td><td>0.00</td><td>H</td><td></td><td>H</td><td>-</td><td>H</td><td>4</td><td>H</td><td>-</td><td></td><td></td><td>-</td><td></td><td>42</td></th<>		Total	271.19	2030	0.00	•	0.00	•	0.00	H		H	-	H	4	H	-			-		42
CONNMI         001         1         000         0         0         000 <th< td=""><td>MONROF</td><td>AGAR</td><td>287.60</td><td>2140</td><td>0.94</td><td>-</td><td>000</td><td>0</td><td>000</td><td>+</td><td>000</td><td>+</td><td>+</td><td>+</td><td>+</td><td>+</td><td>+</td><td>+</td><td></td><td>+</td><td></td><td>288.54</td></th<>	MONROF	AGAR	287.60	2140	0.94	-	000	0	000	+	000	+	+	+	+	+	+	+		+		288.54
Wision         012         2         000         0         0		CONNIN	+	-	000	0	000	0	000	t	000	┝	┝	t		t		t			0	0.01
Total2183.3321320.34470.0000.07730.00000 <t< td=""><td></td><td>WS/DO</td><td>1</td><td>2</td><td>000</td><td>0</td><td>0.00</td><td>0</td><td>11.0</td><td>t</td><td>000</td><td>+</td><td><math>\vdash</math></td><td>H</td><td></td><td>H</td><td></td><td></td><td></td><td></td><td>Н</td><td>1.49</td></t<>		WS/DO	1	2	000	0	0.00	0	11.0	t	000	+	$\vdash$	H		H					Н	1.49
AGIR         000         0         0		Total		2152	0.94	2	0.00	•	0.77	H	0.00	H	+	H		H				-		2
COINWN         000         0         0         0         0	NTGOMERY	AGIR	000	0	0.00	0	0.00	0	000	+	000	Н	+	H		Ħ		Ħ			0	0
WSPC0         000         0         0         0         0         0         0         0         0         0         0         0         0         0         0     <		CONNIMI	0.00	0	000	0	000	9	000	H	000	H	H	H	4		4			-	-	0.01
Total         0.00         0         0 <td></td> <td>WSIDO</td> <td>000</td> <td>0</td> <td>80</td> <td>•</td> <td>000</td> <td>•</td> <td>000</td> <td>+</td> <td>000</td> <td>+</td> <td>+</td> <td>+</td> <td>4</td> <td>+</td> <td>4</td> <td>1</td> <td></td> <td>4</td> <td></td> <td>۶ŀ</td>		WSIDO	000	0	80	•	000	•	000	+	000	+	+	+	4	+	4	1		4		۶ŀ
AGIR         000         0         0<		Total	0.00	•	0.0	•	0.00	•	0.00	+	000	+	+	+	+	+	+				-	0.0
CONNMI         000         0         0         0         0         0         0         0         0         0         0         0         0	NEVADA	AGIR	000	0	80	0	0.00	0	0.13	t	000	⊢	000	-		H		H			0	0.13
WK500         000         0         0         000         0		CONNMI	0.00	0	0.0	0	0.00	0	0.00	Н	0.00	Н	0.18	0 0		Η					0	0.18
Total         0.00         0         0.00         0         0.00         0         0.00         0         0.00         0         0.00         0         0.00         0         0.00         0         0.00         0         0.00         0         0.00         0         0.00         0         0.00         0         0.00         0         0.00         0         0.00         0		WS/DO	0.00	0	0.00	0	000	0	90.0		0.18	-	-	Η		H				-		0.42
AGIR         000         0         010         0         0		Total	0.00	0	0.00	•	0.00	0	0.19	H	0.18	+	+			H				-		0
Witcher         Viscore         Viscore <t< td=""><td>NEWTON</td><td>ACID</td><td>0.00</td><td>4</td><td>000</td><td>4</td><td>000</td><td>0</td><td>000</td><td>+</td><td>000</td><td>+</td><td>+</td><td><math>^{+}</math></td><td>+</td><td>+</td><td>+</td><td>+</td><td>1</td><td>+</td><td></td><td>0</td></t<>	NEWTON	ACID	0.00	4	000	4	000	0	000	+	000	+	+	$^{+}$	+	+	+	+	1	+		0
Total         0.00         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	MENTON	WS00	0.00	0	800		000	0	000	t	000	ł	╀	t	L	t	1	t	L	⊢		-
AGIR         000         0         0         000         0         0         0         0         0         0         0         0         0         0         0		Total	0.00	0	0.0	0	0.00	0	0.0	Ħ	0.00	H	H	H	11	Ħ	11	H	Ц	++	-	1.17
Mainten         0.000         0.0         0.000         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	ALL	1010	200	4	VU V	4	1000	-	A AA	+	WW	+	+	$^{+}$	+	+	4			+		10
Total         0.00         0         0         0         0         0         0         0         0         0         0 </td <td>U IIIIIII</td> <td>MENO</td> <td>0.00</td> <td></td> <td>000</td> <td></td> <td>0.04</td> <td>.+</td> <td>100</td> <td>t</td> <td>000</td> <td>┝</td> <td>+</td> <td>t</td> <td>+</td> <td>t</td> <td>1</td> <td>t</td> <td>L</td> <td>+</td> <td></td> <td>1</td>	U IIIIIII	MENO	0.00		000		0.04	.+	100	t	000	┝	+	t	+	t	1	t	L	+		1
AGIR         013         0         000         1         000         1         000         0         0         000         0         0         000         0         0         000         0         0         0 <td></td> <td>Total</td> <td>0.00</td> <td>0</td> <td>0.00</td> <td>0</td> <td>0.04</td> <td>-</td> <td>1.03</td> <td>H</td> <td>000</td> <td>Н</td> <td>Н</td> <td>H</td> <td>101</td> <td>-</td> <td>Ц</td> <td>Н</td> <td></td> <td>Н</td> <td></td> <td>1.08</td>		Total	0.00	0	0.00	0	0.04	-	1.03	H	000	Н	Н	H	101	-	Ц	Н		Н		1.08
Auxim         013         0         000         0	are soon	1000	4.44		444.4		1000		AAA	+	W	+	+	+	+	+	+	+	+	9.00		1
COINMI         0.00         1         0.00         0         0         0.00         0         0         0.00         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	PERKY	AGIN	0.13	0	30		000		800	+	200	+	+	t	+	t	4	t	1	324		2
WAND         0.033         z         0.000         0 <td></td> <td>CONNMI</td> <td>80</td> <td>-</td> <td>800</td> <td>0</td> <td>000</td> <td></td> <td>800</td> <td>t</td> <td>800</td> <td>+</td> <td>+</td> <td>t</td> <td>+</td> <td>t</td> <td>+</td> <td>t</td> <td>+</td> <td>+</td> <td></td> <td>110</td>		CONNMI	80	-	800	0	000		800	t	800	+	+	t	+	t	+	t	+	+		110
Total         0.45         3         0.000         0 <td></td> <td>MS/00</td> <td>0.33</td> <td>-</td> <td>000</td> <td></td> <td>0.00</td> <td></td> <td>200</td> <td>t</td> <td>200</td> <td><math>^{+}</math></td> <td>+</td> <td>t</td> <td>+</td> <td>t</td> <td>1</td> <td>t</td> <td>1</td> <td>+</td> <td></td> <td>٩r</td>		MS/00	0.33	-	000		0.00		200	t	200	$^{+}$	+	t	+	t	1	t	1	+		٩r
AGNR         204.36         1774         0.00         0		Total	0.45	-	0.00	•	0.00	•	80	+	8	+	+	+	+	+	+	+	1	+		•
001         1         000         0         0         000         0<	PHILLIPS	AGIR	-	1774	000	Ħ	000	0	0.00	H	000	Н	Н	H	Ц	H	Ц	Н		Н	_	204.36
000 0 000 0 000 0 043 4 000 0 000 0 000 0 000 0 000 0 000 0 000		CONNMI	-	+	0.00	Η	0.00	0	0.00	Η	000	Н		H	4					-		0.01
		Other	_	0	800	-	Silve	-	DAD.		-											0

	Use	Quatemary age Sum We	ary Weda	Formation Sum Web	ormation am Weds	Formation Sum Wei	ne rer Mon	Sperte- Memphis Sam Vie	the party	Group Sum N		Formation Sam We		Sand Sum We		Formation Sum Well		28 3		a de la	Totals	
H	Total	204.37	1775	0.00	0	0.00	0	414	19	0.00	0	0.00	•	0.00	•	0.00	0	0.00	0.00	•	208.51	
t	AGIR	010	0	0.00	0	000	0	0.00	0	000	0	000	+	000	+	000	+	0	t	+	0.20	
t	CONNMI	000	~	000	0	0.00	0	000	0	000	0	000	0	0.00	0	0.00	0	0 00 0	0.00	0	0.00	
t	WSIDO	029	-	000	0	0.00	0	000	0	0.00	0	000		000	Η	000			1	-	0.28	
H	Total	0.47	•	0,00	0	0.00	•	000	•	0.00	0	0.00	+	0.00	+	0.00	+	8	$^{+}$	+	0.48	
t	ACAD	876.89	1101	000	0	000	0	111		000	0	0.00	t	000	+	80	+		t	∔	676.76	1.1
t	CONNIN	010	6	0000		000		0.08		0000	0	0.00	0	000	0	000	t	0 00	t	-	0.27	
t	WEDO	2.04		0000		000	0	0.08	-	2.85		000	t	000	t	000	t		t	0	5.28	
t	Total	678.17	2828	00.0	0	0.00	0	1.29		2.85	9	0.00	H	0.00	0	0.0	0	0.00 0	0.00	$\square$	682.31	
П													+		+				+	+	1000	
	AGAR	000	0	0.00	0	0.00	0	0.00	0	0.00	0	000	+	80	+	8	1	8	10.0	-	100	
П	CONNIMI	000	0	0.00	0	0.00	0	000	0	0.00	0	000	+	0.0	0	800	0	000	+	4	0.03	
	WSIDO	000	•	0.00	0	000	0	000	0	0.00	0	0.00	+	80	+	0.00	1	1	+	+	120	
H	Total	0.00	0	0.00	•	0.00	•	0.00	•	8.0	•	0.00	•	8.0	•	0.0	+		1.17	-	111	
t	ACAD	1 12	-	0.00	c	000	0	0.00	0	000	0	000	•	000	0	000	t		+	+	1.72	
t	CONNUM	VIV		000	0	000	0	0.00	0	0.00	0	000	t	000	t	000	t		t	0	0.10	
t	WSDO	0.27		0000	0	000	0	000	0	000		000	t	000	t	000	0	000	0000		0.27	
t	Total	1.55	11	0.00	0	0.00	0	0.00	0	0.00	0	0.00	t	0.00	0	000			H		2.09	
t													H		H		Н		Н	Н		
T	AGAR	246.60	1887	0.00	0	000	0	5.70	25	0.22	2	000	0	0.00	0	000	0	000	000	0	252.61	
T	WS/DO	26.0	10	0.00	0	0.00	0	000	0	000	0	000	+	0.00	1	000	1	_	+	+	15.0	
H	Total	247.57	1691	0.00	•	0.00	•	5.79	25	0.22	2	0.0	•	0.00	-	0.00	+		0.0	0	+	
t	1010	04.50	1000	4 44	0	000	4	000	4	000		000	0	0.00	0	000	0	1	00	0	21.70	1.1
t	AUTO A	000	100	300		200		000	0	000	0	000	0	000	t	0.00	t	000	000	+	0.12	
t	WSD0	446	2	000	20	0000	0	0.12	-	000		000	0	000		000	0		00 0	-	4.57	
T	Total	26.24	248	000	0	00.0	0	0.12	~	0.00	0	0.00	0	0.00	Н	0.00	Н		Н	4	26.35	
П															t	-	+	4	+	4	101.01	
RANDOLPH	AGIR	101.67	609	000	0	000	0	0.00	0	000	0	000		000		0.00	+	4	+	+	14.111	
Π	8	0.01	1	0.00	0	0.00	0	000	0	800	0	000		80	+	80		000	0000	+	0.0	
	WS/DO	0.58	2	000	•	000	•	000	0	000	•	000		000	t	810	t	1	$^{+}$		+	
T	Total	102.26	8	0.00	•	000	•	000	•	0/0	•	0.00	-	A.U.		~~~	+		+	+	+	
ST ERANCIS	ACOR	201.78	1005	90.00	4	000	0	0.00	0	000	0	000	•	000	0	000	-		t		291,84	
T	Other	000	0	000	0	000	0	0.00	0	0.00	0	000	0	0.00	H	0.00	0 0	0.00	00.0	0 0	0.00	
Г	WSIDO	356	2	000	0	0.00	0	000	0	0.33	1	000	0	000		000					3.89	
П	Total	295.34	1967	0.06	4	0.00	0	0.00	0	0.33	5	0.00	•	0.00	0	0.00			+	0	295.73	10.0
T	ACIED	0.00	4	0.00	4	4.00	4	0.04	e	000	-	000	t	800	0	800	+		t	0	0.07	
t	AURIN	0.03	-	200	2	200	2	10.00	•	0.00	-	000		000	t	000	t	L	t	Ļ	222	
t	Mano	0.00		2000		200	2	010	, .	100	-	000	t	000	t	000	0	0.00	000	0	2.29	
t	ICCI	0.75	-	M'N	•	0.00		orn	•	200	•	~~~~	t	~~~~	t	-	t		t	+		
T	AGAR	000	0	80	0	0.00	0	0.00	0	000	0	000	t	0.00	t	000			H	-	0.29	
t	CONNI	000	0	00.0	0	000	0	000	0	0000	0	000	0	000	0	000	0	0.00	0.01		0.01	
T	WSIDO	000	0	000	0	000	0	000	0	000	0	000		0.00		0.00			Н		2.05	
																		l				

		CONDUCTION OF	and of	COCINIC	and a state					A DOWN		CINNOUS	1	Macanoca		U K H	Concession of the local division of the loca		in any solution		addie anon	
		Quatemary	Auto	Formation	ation	River	-	Memphis		Group		Formation		Sand	Form	Formation	Group		Paleozoic			
Country	Turne	Sum	Walls	Sum	Warns I	Sam Well	Methe 1	Sum W	Media	Sum W	ette S	um Wo	the Sur	m Well	Sum	Wells	Sum	Netts	Sum W	etta T	Totals	Wells
SFARCY	WS/DO	0.00	0	0.00	0	000	0	0.00	t	0.00	H	-	H	L	00.00	0	0.00	0	0.29	9	0.29	ω
	Total	0.00	0	00'0	•	0.00	0	0.00	0	0.00	0	0.00	0.00	0	00.0	0	0000	0	0.29	+	0.29	6
									+		+	+	+	4	000	4	000		100	+	4.94	<
SEBASTIAN	AGIR	0.00	-	00.00	•	000	•	000		0000		0.00	300		300		3 5 6		0.74		174	
	WS/DO	00.00	0	0.00	•	0.0	•	0.00	t	000	+	+	+	4	0.00		200		100	+	100	
	Total	0.00	•	0.00	•	0.00	•	0.00	t	0.00	0	0	$^{+}$	•	0.00	•	00'0		0.34	+	44.	-
ecuico	AGOD	0.00	c	000	c	000		000	0	100	t	0	0.00	0	0.31	0	000	0	0.00	0	0.31	0
OCVIEN	COMPANY IN			200		1000	2	200	t	200		╀	t	1	000	0	000	0	000	┝	0.01	-
	CONNIN	000	•	0.0	-	000		10.0	t	200	+	200	200	+	64.1		000	, .	200	╀	00	
	WS/DO	000		000	-	000		0.0	t	0.00		34	t	4			2000	, .	200	╀	14.1	•
	Total	0.00		0.00	•	0.00	•	0.01	-	00'00	+	+	$^{+}$		27-1	-	00'D		A.1	+		-
CUADO	COMMENT	0.00		2000	t	000		000	t	8	+	+	t	1	000	0	0.00		0.61	-	1.51	-
SHARP	COLINA	0000		2000	t	200		200	t	3 2 2	t	38	t		200		000	, .	2.72	ł	1.80	4.0
	WS/DO	00.00	0	00:00	•	00.0		0000	t	0.00	+		3.0	+	0.00		200		+	+	1 14	
	Total	0.00	•	0.00	•	0.00	•	0.00	•	00.00	0	8	$^{+}$	0	0.00	*	0.00	,	+	2	2	
ALAN	40.00	2.00		000	e	000	<	000	t	80	+	0	t	0	000		0.00	0	0.66	0	1.66	~
SIUNE	AGIN	0.00		0.00		200	2	200	t	3 2 2		ł	2000	Ļ	000		000		100	╞	101	
	CONNIN	00:00		0.00		000		330	t	300	$^+$	200	t	1	38	1	200	, .	0.00		0.01	
	WS/DO	00.00	•	0.00	•	00.0		80	+	0.00		+	0.0	4		1	200		000	+	200	•
	Total	0.00	0	0.00	•	0.00	•	0.00	•	0.00	+	+	+	0	0.00	•	0.00		0.00	+	00.	-
CHINES .	10101	2000		2000		2000	<	144	t	100	t	+	t	0	000		000	0	000	0	0.11	•
ONION	AGGR	0.00		000		200		6.44	1	300		ł	t	+	000	0	0000		000	+	R	18
	- CONSUM	200		000		000		110	t	000	t	0 00 0	000	Ļ	000		0000	0	000	┝	9.11	3
	Total	000	-	000		000		15.65	1	00.0	t		t	L	000	•	0.00		0.00	┝	15.55	8
		~~~	-			2010	,		t		┝	+	t	1						┝		
VAN BUREN	AGAR	0.37	-	00.0	0	000	0	0.00	H	0.00	+	0.00	00.0	0 0	0.00		0.00	0	0.00	0	0.37	-
	WS/DO	0.04	0	000	0	0.00	0	000	0	00.0	0	00	H		000	0	0.00	0	0.00		0.04	0
	Total	0.41	-	0.00	0	0.00	0	0.00	Н	0.00	°	H	Н	0	0.00		0.00	0	0.00	+	0.41	-
									H		+	-	+	4	-	4			-	+		4
WASHINGTON	AGUR	000	0	0.00	0	000	0	000	+	000	+	+	+	4	00.0	1	0.00		1.12	+	21.12	•
	CONNIMI	0,00	0	00.0	0	000	0	000	0	000	+	0 00 0	0.00	4	0.00	4	000		90.0	0	90.0	
	WS/DO	0.0	0	00.0	•	000		00.0	+	0.00	+	+	$^{+}$		000	•	000		11/1	+	4.96	-
	Total	0.00	•	00'0	•	0.00	•	0000		0.00		00	$^{+}$	+	0.00	1	0.00		1.00		ee-	•
WHITE	AGAR	46.51	804	000	0	000	0	000	t	0.54	-	+	t	1	0.00		000	0	000	0	47.05	802
	COINIMI	0.05	-	000	0	0.00		00.0	0	00.0	0	0 00 0	0.00	0	0.00	0	0.00	0	0.00		0.05	-
	WS/DO	1.49	~	00.0	0	000	0	0000	0	00.0	0		H	0 0	00.00	0	0.00	0	0.00	-	1.49	-
	Total	48.05	808	00.0	0	0.00	0	0.00	H	0.54	1	-	H	4	0.00	4	0.00	•	0.00	0	8.59	810
1000000	1000	201.70	20102	000	¢	000	¢	1 10	ŀ	000	0	+	$^{+}$	+	0.00	•	000	-	0 00	0	55.87	2224
WUUNULL	AUDA A	A.A.	44.11	200	-	000		000		0.00	t	╞	t	Ļ	000	L	0.00		0.00	t	0.01	~
	Cohor	1000		0000		000		000	t	0.00	╉	00 00	t	0	0000	0	000	0	0.00	⊢	0.07	~
	WSDO	106		00.0	0	000		0000	t	0.00	┝	-	t	L	00.0		0.00	0	0.00	0	1.05	-
	Total	265.92	2229	0.00	•	000		1.08		0.00	0	0.00	0.00	0	0.00		0.00	0	0.00	Н	267.00	2236
											Н	Н	Н	Ц		Ц				+		
VELL	AGAR	0.36	-	0.00	0	000	0	0.00	0	0.00	H	4	+	4	0.00		0.00	0	0.00	+	0.36	-
	CONNIMI	0.00	2	0.00	0	0.00	0	0.00	+	000	+	000	80		00.0	0	00:0		0000	0.0	0.00	•
	WS/DO	2.01	0	0.00	•	0.00		000	+	0.00	0	+	t	4	00.0	1	000		200	+	10.1	
	Total	2.37	12	000	0	000	0	000		0.00				0	N'N	0	0.00	0	0.00		10.0	14

Alter Manual	Depos	is of	Coch	field	3 4	-	Spart	-	WICO		Clayt	un	Naca	toch d	Form	ONIO.	Groun	20	Roces Pateoro	ic c	se Type	
addit ann					Form		5.		-	and a	-	ALLER .	-	Multe	Rum	Window	-	Mone	Sum	alatis .	Totals	Wells
	No view		une -		A AN		THE TY		100	20	WWW	-	0.60	0	0.85	¢	000	0	63.63	14	728279	46763
Agriculture/ Irrigation	1200.92	40420	20.0	4	000		81.80	200	100	4	30	-	0000	-	100		3		10.00			
Commercialitudus. Mining	11.09	8	6.20	1	000	0	48.45	116	222	10	0.18	•	0.29	2	800	1	0.03	+	1.45	8	69.87	CN2
Water Supply Domestic	40.09	153	4.32	24	110	-00	80.88	266	21.42	80	000	0	3.03	25	3.86	2	0.00	0	19.82	140	154.14	158
Other	0.72	10	151	~	000	0	0.75		0000	0	0.00	0	0.00	0	000	0	0000	0	000	0	3.44	25
Total	7252.82	45548	16.11	2	0.71	-	153.81	619	27.01	115	0.18	4	4.00	32	4.48	8	0.03	-	21.75	111	7510.24	47809

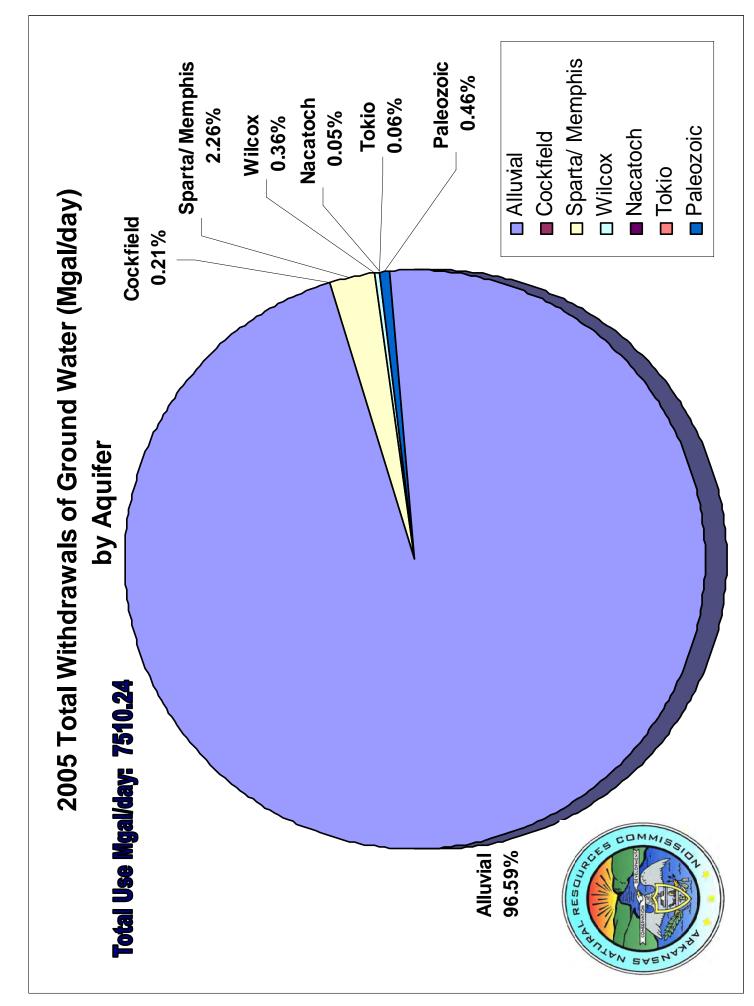


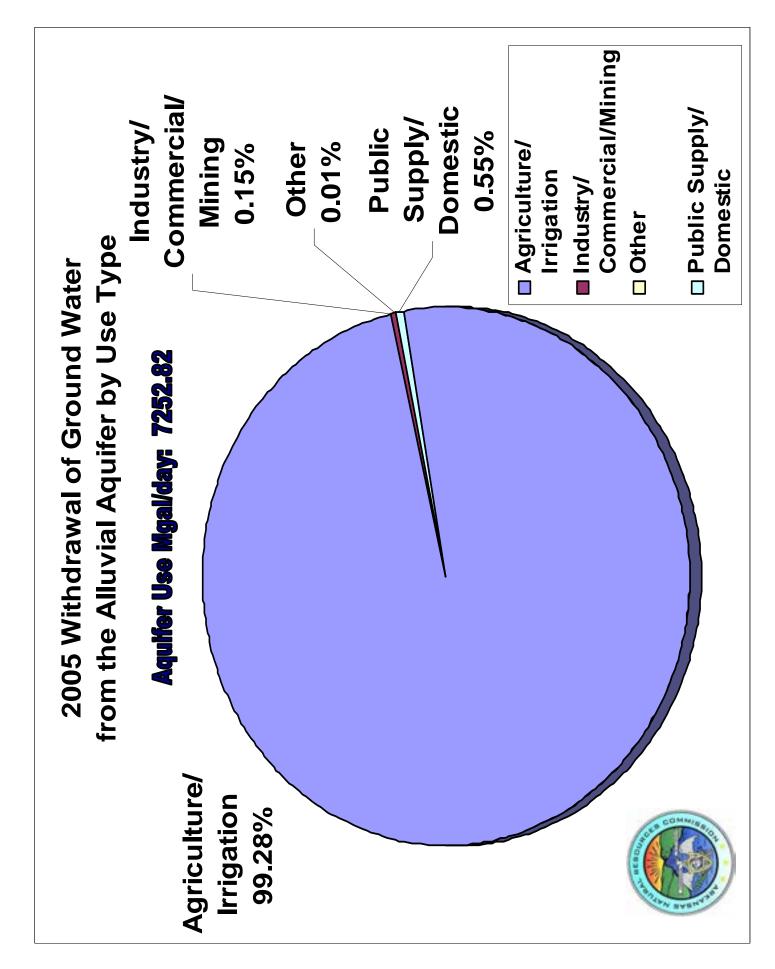


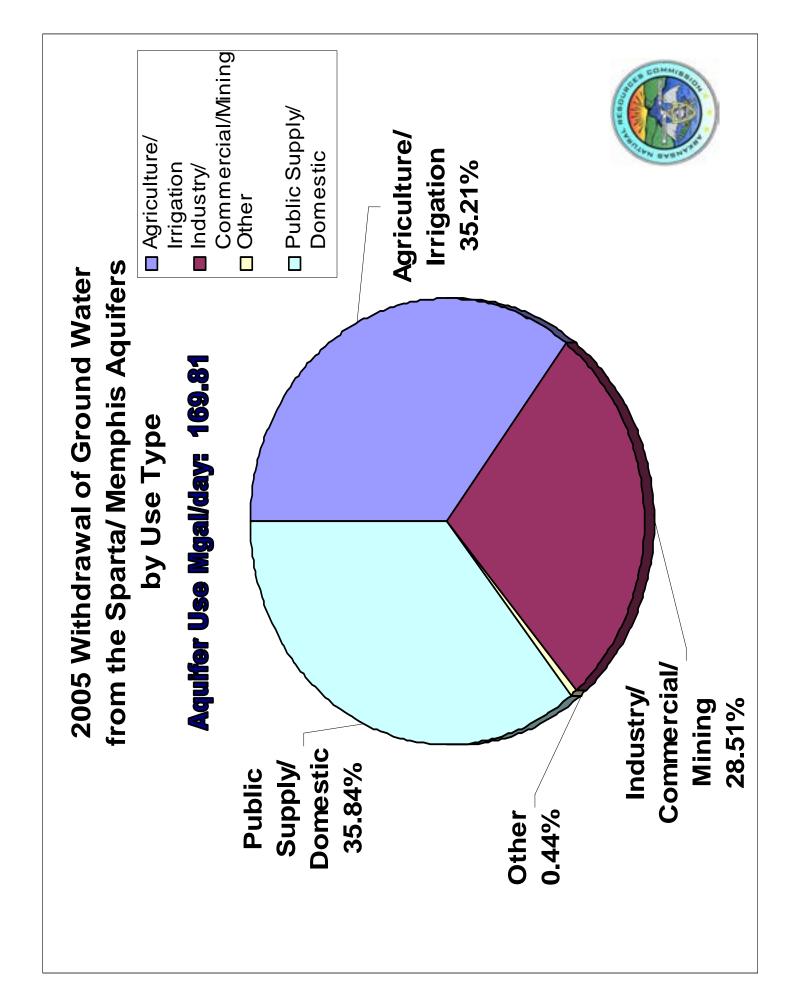
## Legend

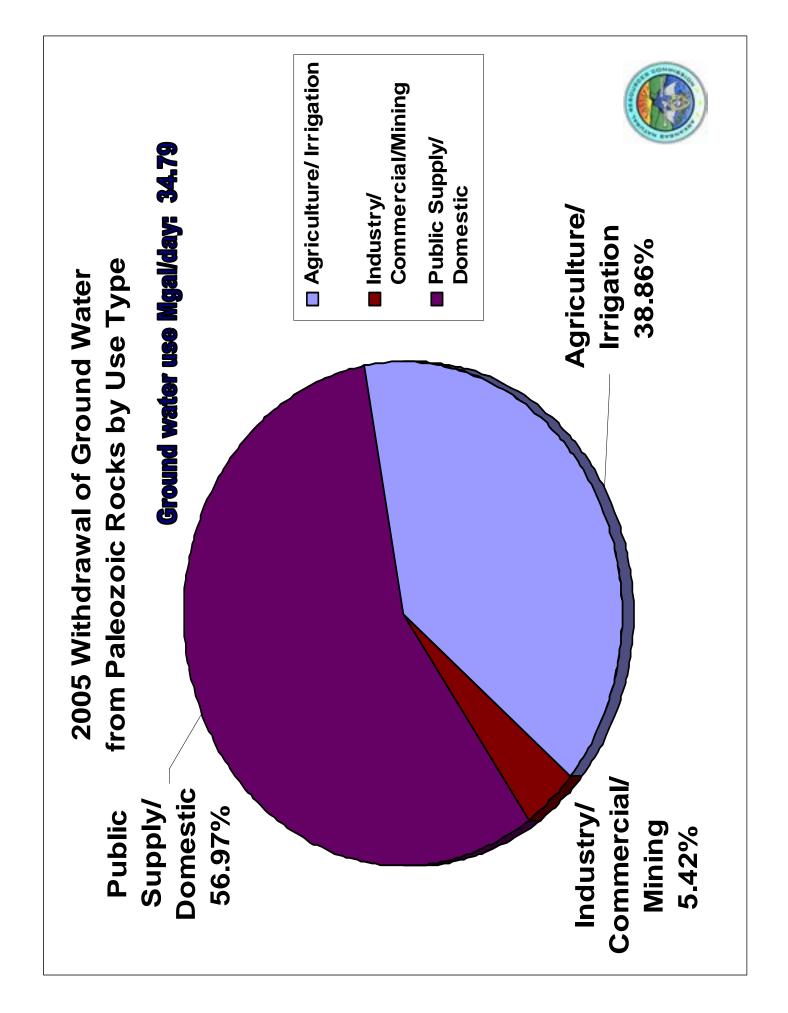
0 - 1 Mgal/day Greater than 1 - 10 Mgal/day Greater than 10 - 100 Mgal/day Greater than 100 - 560 Mgal/day Greater than 560-685 Mgal/day Total Use (Mgal/day): 7510.24

\* Data obtained from USGS









### Ground-Water Modeling and Sustainable Yield

The Arkansas District of the US Geological Survey has released several ground-water flow modeling reports. These models provide the State with valuable information on the ground-water flow systems of the two major aquifers in Arkansas as well as an important ground-water resources tool that define areas of future ground-water depletion, and quantifies a sustainable yield, along with unmet demand, based on a described set of head constraints that are consistent with current State water resources policy.

The USGS recently completed recalibration, conjunctive-use optimization, and sustainable yield optimization of ground-water flow models for the Sparta and alluvial aquifers in eastern and southern Arkansas. These reports define and document future projected ground-water declines in Arkansas based on current water use trends, and quantify a sustainable yield for each aquifer based on the head constraints consistent with State water policy. It is essential that the State pursue protection of a sustainable yield for its aquifers, in order to protect this valuable resource from adverse impacts such as damage to the aquifer system, land subsidence, reduced yield to wells, saline water encroachment, increased cost to well users, and reduced base flow to streams and wetlands.

Any attempt to establish a "safe yield" for an aquifer should appropriately be consistent with the preferred concept of "sustainable yield", which includes the often dynamic needs of society, ecology, hydrology and the environment. (Maimone, 2004). The definition of sustainable yield in *WRI Report 03-4230* is the withdrawal rate from an aquifer that can be maintained indefinitely without causing a violation hydraulic head or streamflow constraints. Another definition of sustainable yield proposed by the USGS is *"the development and use of ground water resources in a manner that can be maintained for an indefinite time without causing unacceptable environmental, economic, or social consequences"* (Alley 2004). The misperception of setting a fixed safe yield, has been replaced with the goal of establishing a process of defining a

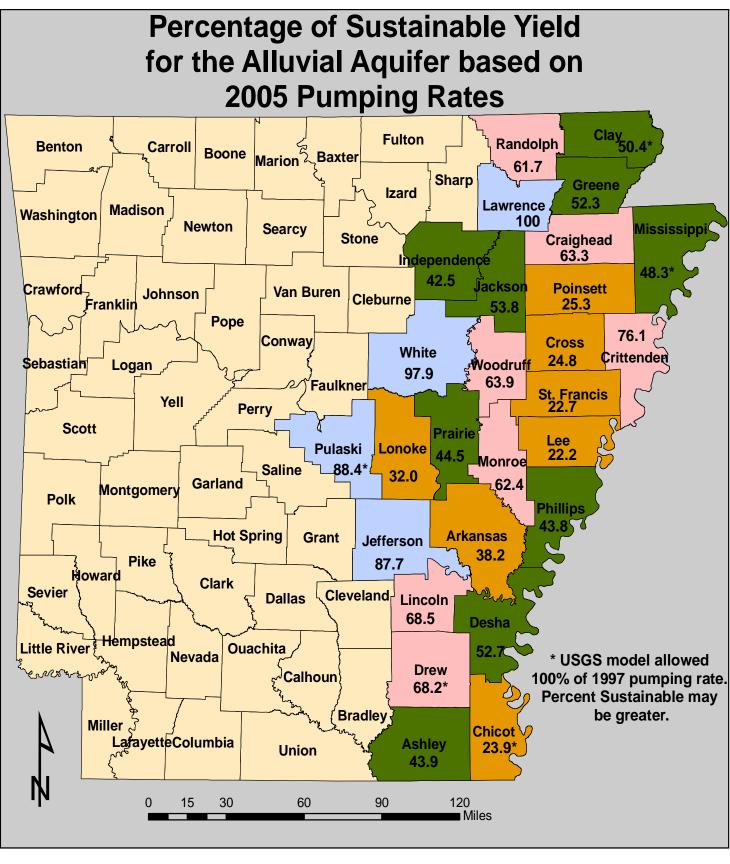
sustainable yield that is adaptive and flexible to changing needs and additional scientific knowledge.

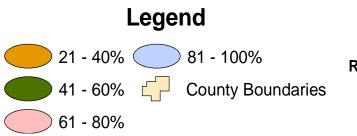
The scale of these models is immense, and the methodology and complete results can be found in the USGS Water-Resources Investigations Reports; 03-4230, 03 4231, and 03-4233, which are all listed in the "References" section of this report. One product of these models was the determination of maximum withdrawal rates from each one square mile cell in the model based on 1997 ground-water use, while not violating specified constraints imposed on the model. (Czarnecki, and others, 2003) The constraints were based on predetermined stream flow levels, as well as aquifer saturated thickness percentages that must be maintained. A minimum of 50% has been utilized for the alluvial aquifer as the sustainable yield thickness in Arkansas.

The ground-water models showed that a sustainable yield for the alluvial and Sparta aquifers could not be met using the 1997 pumping rate. The alluvial model is split into a North Optimization Model, and a South Optimization Model. The sustainable yield from ground water in the North Model was 360.3 million cubic feet per day, and the demand was 635.7 million cubic feet per day, based on 1997 pumping rates. This leaves an unmet demand of 275.5 million cubic feet per day (43%). In the South Optimization Model the sustainable yield from ground water, based in 1997 pumping rates, was 70.3 million gallons per day with a demand of 73.6 million gallons per day. This leaves an unmet demand of 3.3 million gallons per day, or 5% for the south model. (Czarnecki and others, 2003) The unmet demand represents the amount by which water use must be reduced to achieve a sustainable yield. Figure 47 provides a real view of those portions of the State which could continue to pump from the alluvial aquifer within a sustainable yield pumping rate, based on head constraints as described. This figure also shows those portions of the State where no pumping from the alluvial aguifer could be maintained. It should be noted that the aforementioned sustainable yield and demand figures were based on 1997 ground-water rates.

The latest USGS model report, "Simulation of Various Management Scenarios of the Mississippi River Valley Alluvial Aquifer in Arkansas" (Czarnecki, 2006), provides essential information for proper evaluation of sustainable yield. Figure 46 shows the

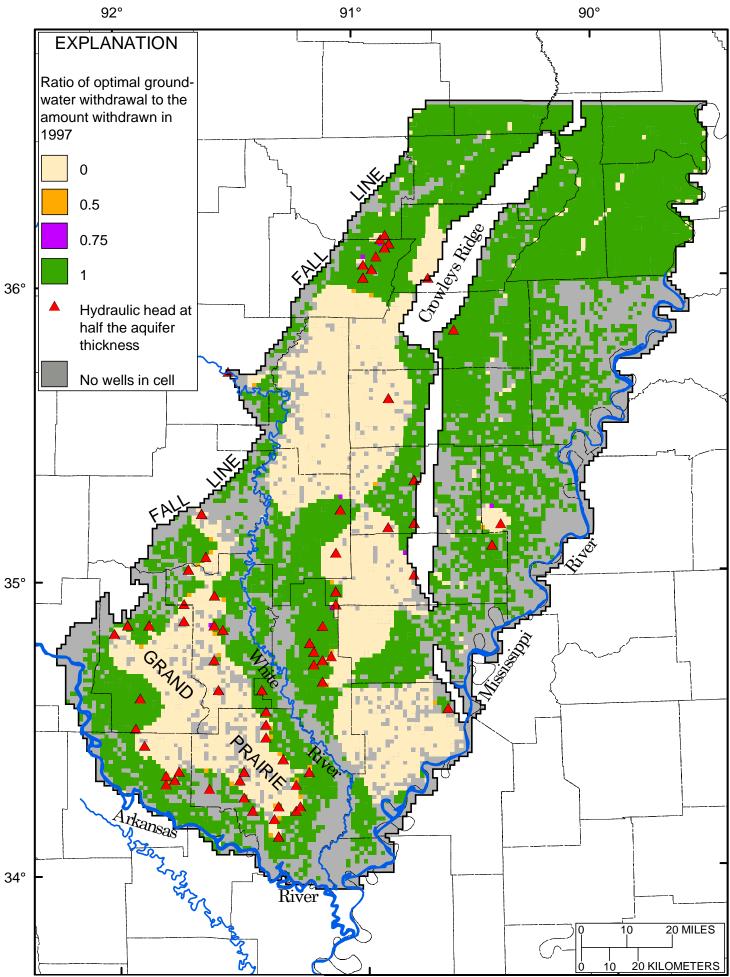
106





Modified from USGS Reports 2003-4230 & 2007-5241





Base from U.S. Geological Survey digital data, 1:100,000

estimated sustainable yield for the alluvial aquifer in a portion of eastern Arkansas, based on current State water policy. The amount of water use, as well as the unmet demand has both increased since this time due to the number of new irrigation wells drilled each year. There have been over 10,000 new wells drilled in the alluvial aquifer since 1997.

#### **SUMMARY**

The Ground Water Protection and Management Report for 2007 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 ground-water resources. The report also describes ground-water protection activities administered through Region VI of the U.S. Environmental Protection Agency, which are funded through Sections 106 and 319 of the Clean Water Act.

The purposes of the programs outlined in this report are to monitor the condition of the State's ground-water resources and to evaluate trends in water level and water quality fluctuations. The ANRC, the NRCS, and the USGS monitor over 1,700 water wells each year for water levels and prescribed water quality parameters. This monitoring is accomplished through a cooperative agreement with the ANRC, the USGS, and the Arkansas Geological Commission (AGC).

Spring water level measurements from 2006 to 2007 provided short term data indicating an overall average decline in water levels. The overall change in the alluvial aquifer for spring 2006 to spring 2007 was a decline of 0.44 feet with 66 percent of measured wells showing a water-level decline. Over the same time period the Sparta aquifer declined 0.06 feet; however, the water level in the Grand Prairie declined 1.6 feet. Elevated levels of dissolved solids are being recorded in areas of significant water-level decline in the Boeuf-Tensas and Grand Prairie Study Areas. 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 ground-water levels as illustrated by the hydrographs and long term change maps. These hydrographs for both the alluvial and Sparta/Memphis aquifers are included as appendix B and appendix D respectively.

Arkansas is withdrawing ground water from the alluvial and Sparta 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.

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<u>Appendix A</u>

Alluvial Aquifer Water Level Monitoring Data

97-07	Change									-3.54								-7.65									4,50			10.40		4.50							
02-07	Change	0.08	6.07	23.62	3.80	-2.76		-2.60	-1.50	-1.82	0.56		-36.80	-3.71	-0.45	-0.20	0.51	-2.12	-25.32	-1.43	1.50	0.20	0.43	0.34							2.01		1.06	-1.38	4.56	9.04		0.12	-0.31
20-80	Change	0.30	0.45	2.75	1.53	-1.12	-1.00	-0.95	-0.57	-0.47	-0.70	-1.65		4.11		-1.95	3.37	-0.58	-15.05	-0.87	0.50	-1.55	0.01	2.55			0.00			1.40	-0.23	-0.70	-0.88	-0.86	-2.41	5.24	-0.20	-1.02	-1.32
M	Alt. 97									107.62								99.35									76.00			85.00		88.00							
ML	Alt 02	112.56	102.28	137.38	127.20	104.46		105.00	106.33	105.90	109.34		206.30	136.71	129.75	124.60	107.34	93.82	85.82	91.93	90.00	129.90	107.57	134.16							117,49		131.64	162.81	171.12	114.46		100.88	115.45
M	Alt. 06	112.34	107.90	158.25	129.47	102.82	97.29	103.35	105.40	104.55	110.60	105.25		137.11		126.35	104.48	92.28	75.55	91.37	91.00	131.65	107.99	131.95			80.50			94.00	119.73	93.20	133.58	162.29	178.09	118.26	115.10	102.02	116.46
ML	Att. 07	112.64	108.35	161.00	131.00	101.70	96.29	102.40	104.83	104.08	109.90	103.60	169.50	133.00	129.30	124.40	107.85	91.70	60.50	90.50	91.50	130.10	108.00	134.50	135.80	82.81	80.50	81.50	83.80	95.40	119.50	92.50	132.70	161.43	175.68	123.50	114.90	101.00	115.14
20	meas.	100.40	104.65	37.00	66.00	99.30	99.71	92.60	92.80	100.92	105.10	107.40	37.50	57.00	66.70	54.60	83.15	108.30	131.50	109.50	105.50	70.90	90.00	48.50	44.20	113.19	115.50	114.50	111.20	90.60	74.50	93.50	58.30	21.50	4.80	64.50	72.10	83.00	68.00
Date	Measured	3/20/2007	3/20/2007	3/20/2007	3/21/2007	3/20/2007	3/20/2007	3/21/2007	3/20/2007	4/9/2007	3/20/2007	3/20/2007	3/20/2007	3/21/2007	4/17/2007	3/21/2007	3/21/2007	3/21/2007	3/22/2007	3/21/2007	4/19/2007	3/21/2007	3/21/2007	3/21/2007	3/21/2007	3/22/2007	3/21/2007	3/22/2007	3/22/2007	3/21/2007	3/22/2007	3/22/2007	3/22/2007	3/21/2007	3/15/2007	3/21/2007	3/22/2007	3/22/2007	3/22/2007
LSA		213.04	213.00	198.00	197.00	201.00	196.00	195.00	197.63	205.00	215.00	211.00	207.00	190.00	196.00	179.00	191.00	200.00	192.00	200.00	197.00	201.00	198.00	183.00	180.00	196.00	196.00	196.00	195.00	186.00	194.00	186.00	191.00	182.93	180.48	188.00	187.00	184.00	183.14
Lonaitude	State and a state of the	912415.21	913126.72	913536.22	911251.01	912131.83	912251	911944.08	912454	912515.37	913227.43	913307	912922	913651.67	910919	910947	911538.5	912058.11	912202.18	912423.69	912437	913320.89	912929.57	910729.49	910820	912046	912019	912035	911930	912654	912931.61	912411	912821.81	913650.8	914129.68	911206.48	911302.3	911953.82	911912.78
Latitude		343232.89	343212.68	342936.71	342447.92	342737.02	342553	342454.73	342831	342753.04	342752.15	342630	342525	342411.4	342012	341753	341846.35	342101.87	341820.31	342313.2	341835	342044.68	342001.3	341551.59	341521	341624	341551	341510	341511	341750	341555.36	341549	341315.97	341723.66	341641.5	340852.62	341228.4	341135.97	340857.58
Station ID.		02S04W11DBB1	02S05W15AAB1	02S05W31BBB1	03S02W27ABB1	03S03W05CCD1	03S03W18CCC1	03S03W27BBC1	03S04W02BBB1	03S04W03DCA16	03S05W03CCC1	03S05W13AC1	03S05W24DAA1	03S06W35ADD1	04S01W19AAD1	04S01W31DCB1	04S02W29CCC1	04S03W17ADD1	04S03W32BCB1	04S04W02ABB1	04S04W35ABC1	04S05W16CDC1	04S05W24DAA1	05S01W16BAB1	05S01W17CAD1	05S03W09CBA1	05S03W16ABB1	05S03W21BAA1	05S03W22AAB	05S04W04BAA	05S04W07CCC1	05S04W14AAD1	05S04W32BBA1	05S06W02DDD1	05S06W07DDC1	06S02W23DCD1	06S03W03ABA1	06S03W10BBA1	06S03W27AAA1
County		Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas								

97-07	Change		-24.50		10.25	-4.58					410	4/0	-1.33															-14.50	-7.00	-6.00				~	-14.50		-4.00	-5.50
02-07	Change		-15.38	0.74		0.27	-0.04	3.11	-0.43	2.97	40.96	CC/01	-1.01	-3.12	-1.91	1.60	-0.97	-2.39		-6.58	-2.58	-9.99		-2.55	4.83	-18.21		-8.00	-5.00	-6.00		-0.37	4.77		-6.00	-4.00	-7.00	-6.00
20-90	Change	-0.80	-4.30	0.21	-1.60	-0.69	-1.28	2.80	1.68	-1.03	11110	14117	-0.61	-2.71	0.60	-4.30	1.78	-0.21	-0.70	-3.38	-0.30	-5.64		-0.22	0.42		-3.55		-2.34	-1.00	-3.50	0.08	-3.33	-4.20		0.25	-2.00	-0.84
ML	Att. 97		154.00		127.00	147.66						12:	:ebu															88.50	100.00	109.00					90,50		94.00	88.50
ML	Alt. 02		144.88	128.96		142.81	150.96	138.59	135.98	152.53	The section of the	Declines/weils:	Average Change:	96.32	205.91	88.90	109.47	100.34		96.98	91.78	97.79		100.75	101.97	93.51		82.00	98.00	109.00		94.82	87.77		82.00	98.00	97.00	89.00
ML	Alt. 06	124.66	133.80	129.49	138.85	143.77	152.20	138.90	133.87	156.53		Dec	Ave	95.91	203.40	94.80	106.72	98.16	102.40	93.78	89.50	93.44		98.42	106.38		88.80		95.34	104.00	94.20	94.37	86.33	82.80		93.75	92.00	83.84
ML	Alt. 07	123.86	129.50	129.70	137.25	143.08	150.92	141.70	135.55	155.50				93.20	204.00	90.50	108.50	97.95	101.70	90.40	89.20	87.80	104.00	98.20	106.80	75.30	85.25	74.00	93.00	103.00	90.70	94.45	83.00	78.60	76.00	94.00	90.00	83.00
40	meas.	56.14	46.50	54.30	49.75	43.10	26.00	44.30	43.45	22.50				33.80	6.00	39.50	76.50	84.05	73.30	33.60	26.80	29.20	18.00	83.80	72.20	109.70	34.75	29.00	25.00	22.00	27.30	86.55	27.00	26.40	31.00	17.00	26.00	24.00
Date	Measured	4/17/2007	3/22/2007	3/22/2007	3/22/2007	3/22/2007	3/22/2007	3/22/2007	3/22/2007	3/22/2007				2/27/2007	2/21/2007	2/21/2007	2/27/2007	2/27/2007	2/27/2007	2/21/2007	2/21/2007	2/27/2007	4/17/2007	2/21/2007	2/21/2007	2/21/2007	2/21/2007	4/17/2007	4/17/2007	4/17/2007	2/21/2007	2/27/2007	2/21/2007	2/21/2007	4/17/2007	4/17/2007	4/17/2007	4/17/2007
LSA		180.00	176.00	184.00	187.00	186.18	176.92	186.00	179.00	178.00				127.00	210.00	130.00	185.00	182.00	175.00	124.00	116.00	117.00	122.00	182.00	179.00	185.00	120.00	103.00	118.00	125.00	118.00	181.00	110.00	105.00	107.00	111.00	116.00	107.00
Longitude		912115	911451.89	911451.89	911944	912316.09	912216	912327.15	911505.57	912202.5				912902	915001.37	913002	914438	914240	914143	913010	912954.09	913108	913347.5	913956.26	914136	915049	913218	912941.2	913537.3	913555	913435	915225.12	913328.56	913146	912940.6	913815	913718	913615
Latitude		340740	340707.15	340707.15	340560	340435.28	340240	340625.25	340041.03	340147.45				332231.97	332315.7	331902	331941	331729	331624	331528	331252.48	331252	331529.1	331517.9	331049	331501	330852	330651.4	330816.6	330712	330730	331014.97	330503.96	330346	330314.2	330405	330323	330139
Station ID		06S03W32DDA	07S02W04BBB1	07S02W17BBA1	07S03W10ACD1	07S03W18CCD1	07S03W32BBC1	07S04W01DDD1	08S02W08ACA1	08S03WT2299				15S04W26DCC1	15S07W21CBA1	16S04W10ABB	16S06W08CAA1	16S06W27BAB1	16S06W35BAD	17S04W03ABB1	17S04W15DDC1	17S04W21ABA1	17S05W01AAC1	17S06W01ADD1	17S06W35CAC1	17S07W05CDD1	18S04W08CAD1	18S04W23DDD1	18S05W11CCD1	18S05W22DDA1	18S05W24BDC1	18S08W01AAB1	19S04W06BAB2	19S04W09CBB	19S04W14BBB1	19S05W08ACA1	19S05W16ABB1	19S05W22DCD1
County		Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas				Ashley	Ashley	Ashlev	Ashlev	Ashley	Ashley	Ashlev	Ashlev	Ashley	Ashlev	Ashlev	Ashley	Ashlev	Ashlev	Ashlev	Ashlev	Ashlev								

97-07	Change		6/6	-8.58	-23.00			4.00	-8.00										-10.00	-6.00			5/5	-10.20			-1.90	4.50		1.30	-9.60	-1.90	-0.80			
02-07	Change	3.53	18/21	4.07	0.00		4,59	-3.00	-7.00	-5.81	-3.41	-1.98			-0.01	8.23	-0.80		-1.00		-1.77		10/11	-1.76		-3.22	0.30	1.60	0.30	7.50	-2.60	-2.60	21.50			2.80
06-07	Change	3.14	16/22	-1.45		-1.18	-0.72	-2.00	-4.00	-3.44	-3.24	-2.09	1.00	-0.30	-0.77	2.65	-0.65	-0.30	-1.00	2.00	-2.64	4.00	14/17	-1.22		-0.01	-0.40	2.00	0.40	9.80	0.40	1.00	2.20	-0.30	0.90	1.50
ML	Alt. 97		lls:	:aßu	115.00			106.00	102.00										93.00	105.00			ils:	:a6u			253.50	263.50		263.50	270.00	252.90	266.00			
ML	Att. 02	103.27	Declines/Wells:	Average Change:	92.00		98.29	105.00	101.00	109.81	99.31	97.98			93.21	92.17	87.80		84.00		91.57		Declines/Wells:	Average Change:		252.32	251.30	257.40	257.10	257.30	263.00	253.60	243.70			264.70
ML	All. 06	103.66	Dec	Ave		94.92	94.42	104.00	98.00	107.44	99.14	98.09	87.00	85.50	93.97	97.75	87.65	88.50	84.00	97.00	92.44	91.30	De	Ave		249.11	252.00	257.00	257.00	255.00	260.00	250.00	263.00	255.80	257.00	266.00
M	Att. 07	106.80			92.00	93.74	93.70	102.00	94.00	104.00	95.90	96.00	88.00	85.20	93.20	100.40	87.00	88.20	83.00	99.00	89.80	87.30				249.10	251.60	259.00	257.40	264.80	260.40	251.00	265.20	255.50	257.90	267.50
07	meas.	27.90			46.00	38.26	40.30	31.00	36.00	30.00	38.10	30.00	37.00	32.80	21.80	17.60	27.00	31.80	34.00	16.00	13.20	17.70				7.90	7.40	21.00	21.60	24.20	36.60	17.00	4.80	5.50	7.10	20.50
Date	Measured	2/21/2007			4/12/2007	3/1/2007	3/1/2007	4/16/2007	4/12/2007	3/1/2007	3/1/2007	4/16/2007	4/5/2007	3/1/2007	2/27/2007	3/1/2007	2/27/2007	2/23/2007	4/5/2007	4/5/2007	2/27/2007	2/27/2007				4/4/2007	4/25/2007	4/26/2007	4/26/2007	4/26/2007	4/26/2007	4/25/2007	4/25/2007	4/4/2007		4/26/2007
LSA		134.70			138.00	132.00	134.00	133.00	130.00	134.00	134.00	126.00	125.00	118.00	115.00	118.00	114.00	120.00	117.00	115.00	103.00	105.00			and the second se	257.00	259.00	280.00	279.00	289.00	297.00	268.00	270.00	261.00	265.00	288.00
Longitude		914607.92			912310	912335.8	912245.53	911729	912038	911729	912551.45	911919.83	911919.83	912234	911505.22	910716	911712	911820	912736	911245	912341	911415			and the second	901153.03	901117	903621	904125	903152	902815	901700	901402	901140	900921	904225
Latitude		330403.56			333253	333135.52	333154.05	332859	332859	333011	332613.47	332226.59	332226.59	331797	331501.18	331258	331429	331021	331257	330543	330728	330309				361323.23	361253	361805	361649	361716	361642	361519	361729	361459	361531	362112
Station ID		19S06W07BCC1			13S03W27AAA1	13S03W34CAA1	13S03W35BAC1	14S02W09BDD1	14S02W18BBA1	14S03W07BBD1	14S03W32CDB2	15S02W20DDC1	15S03W18BBB1	16S03W24BBC1	17S01W06BCC1	17S01E17CDA1	17S02W10AA1	17S02W33DDA1	17S03W18CBC1	18S01W33BDA1	18S03W22ABA2	19S01W17BBB				18N08E03DAB1	18N08E11BAA1	19N04E11DAA1	19N04E19BAA1	19N05E15BBD1	19N06E18DBC1	19N07E25BCB1	19N08E08DCA1	19N08E27DA41	19N09E30BB1-	20N03E25BAA1
County		Ashley			Chicot	Chicot	Chicot	Chicot	Chicot	Chicot	Chicot			- 0.4.2.	Clay																					

97-07	Change		-5.60		-6.50	1.00	-0.40	-0.60		-9.00	-5.00	-1.80	-3.10			-5.70		-12.50				-0.20	17/18	-3.71	4 00	00.1-	-8.90			-15.40	-10.00	0.00	-14.90				-4.60	-3.20
02-07	Change		-0.40	-0.70	-0.20	8.50	-1.50	-2.20	-1.30	-1.10	1.30		0.60	1.15	1.10	2.50	0.65	1.50		-0.15	-2.60	-2.20	13/27	1.13		1.50	-3.50	-0.46		-10.60	-2.80	-3.30	-6.00	-2.85	-4.00	0.93	1.60	2.10
08-07	Change	-0.60	3.90	1.20	2:00	11.00	1.00	1.80	0.20	1.00	1.00	1.40	3.50	0.83	2.00	3.00	0.79	6.00	1.00	1.04	0.45	2.80	4/32	1.96		00.1	-1.50	-4.28	-0.50	-0.80	-0.30	-2.00	0.50	-0.51	1.00	-0.73	0.50	-0.40
M	Alt. 97		268.50		276.50	271.00	267.40	273.40		291.00	277.00	277.20	284.60			289.70		295.50				280.00	lls;	:agu		193.60	185.40			173.40	172.80	167.40	156.40				208.50	201.30
WL	AH. 02		263.30	266.90	270.20	263.50	268.50	275.00	264.50	283.10	270.70		280.90	274.45	281.90	281.50	273.45	281.50		286.55	282.00	282.00	Declines/Wells;	Average Change:		184.80	180.00	173.16		168.60	165.60	170.70	147.50	149.55	160.00	205.52	202.30	196.00
ML	All. 06	269.30	259.00	265.00	268.00	261.00	266.00	271.00	263.00	281.00	271.00	274.00	278.00	274.77	281.00	281.00	273.31	277.00	289.00	285.36	278.95	277.00	Det	Ave	100.001	185.30	178.00	170.98	176.50	158.80	163.10	169.40	141.00	147.21	155.00	207.18	203.40	198.50
M	Alt. 07	268.70	262.90	266.20	270.00	272.00	267.00	272.80	263.20	282.00	272.00	275.40	281.50	275.60	283.00	284.00	274.10	283.00	290.00	286.40	279.40	279.80				186.30	176.50	166.70	176.00	158.00	162.80	167.40	141.50	146.70	156.00	206.45	203.90	198.10
20	meas.	16.30	27.10	16.80	20.00	18.00	8.00	6.20	6.80	10.00	18.00	14.60	9.50	22.40	5.00	12.00	18.40	20.00	18.00	37.60	3.60	4.20				53.70	63.50	75.30	69.00	93.00	87.20	81.60	108.50	104.30	93.00	24.55	26.10	26.90
Date	Measured	4/4/2007	4/25/2007	4/26/2007	4/26/2007	4/26/2007	4/25/2007	4/25/2007	4/25/2007	4/26/2007	4/26/2007	4/26/2007	4/26/2007	4/4/2007	4/26/2007	4/26/2007	4/4/2007	4/26/2007	4/26/2007	4/4/2007	4/4/2007	4/25/2007				3/13/2007	3/13/2007	3/26/2007	3/13/2007	3/13/2007	3/13/2007	3/14/2007	3/14/2007	3/26/2007	3/13/2007	4/2/2007	3/16/2007	3/14/2007
LSA		285.00	290.00	283.00	290.00	290.00	275.00	279.00	270.00	292.00	290.00	290.00	291.00	298.00	288.00	296.00	292.50	303.00	308.00	324.00	283.00	284.00				240.00	_	_	245.00	251.00	250.00	249.00	250.00	251.00	249.00	231.00	230.00	225.00
Longitude.		903722	903132	903454	902620	902630	901220	900642	900628	904453	904214	903725	903853	903328.9	903132	902421	902607.97	901607	901211	901550.33	900958	900851				905753	905945	905651.69	905800	905032	905129	904434	904652	904712.98	904401	903656	903857	903829
Latitude		362427	362118	362003	362327	362005	362111	362306	361904	362738	362450	362425	362828	362755.47	362704	362839	362604.92	362835	362842	362650.9	362502	362447				354739	354434	354435.4	353832	354731	354733	354419	354322	354403.31	354308	354635	354521	354340
Station ID		20N04E02BBC1	20N05E22CAD1	20N05E30CAC1	20N06E09BB1	20N06E28CCD1	20N08E22BDC1	20N09E09ABC1	20N09E33DDC1	21N03E15CBC1	21N03E36CDD1	20N04E03AA1	21N04E09DBC1	21N05E17ABB1	21N05E22BAB1	21N06E11BBB1	21N06E28BB1	21N07E01DDC1	21N08E03CD1	21N08E18CCC1	21N08E36ABB1	21N09E31BDA1				13N01E03AAA1	13N01E21CAB	13N01E23DAA1	13N01E26BC1	13N02E02AAB1	13N02E03AAA1	13N03E23CDA1	13N03E28CDB1	13N03E29AAA1	13N03E35AAA1	13N04E12ABB1	13N04E15DBA1	13N04E26BCC1
County		Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clay	Clav	Clav	Clay				Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craidhead	Craighead	Craighead

57-07	Change		4.20			-4.50					-11.00	-11.80	-8.00	-11.10				-0.70		-11.20	-9.51		-8.20		-4.20			10140	EL/OL	-7.83			-9.30					
02-07	Change	0.00	-0.10	3.18	-5.00		-7.40	1.50	-2.85		-1.20	-4.00	-3.60		1.48		0.73		-8.50	-4.60	-6.47	0.60		0.48	-4.00	-2.05	-6.00	00100	\$1134	-2.54		-4.61	-8.00	-2.35				
06-07	Change -	-0.10	-1.00	4.99	-0.60	1.00	-6.40	7.30	0.62		-0.10	-0.90	-1.00	-0.70	-0.74	-1.04	2.74	0.00	-0.50	-0.30	-0.74	-0.40	-0.50	2.42	-0.20	1.39	0.60	OPING	40/30	-0.06	-1.70	-0.24	1.40	-2.22	-1.90		-1.70	
ML	Alt. 97		212.20		2	215.50					209.00	205.80	198.90	190.60				223.53		226.40	221.61		231.20		229.20			-	18:	:eGu			196.70					
M	Att. 02	217.00	208.10	212.42	217.20		222.00	218.50	221.25	10000	199.20	198.00	194.50		188.02		218.47		224.50	219.80	218.57	224.20		224.72	229.00	230.00	223.00	11	Declines/wells:	Average Change:		187.91	195.40	184.85				
ML	Alt. 06	217.10	209.00	210.61	212.80	210.00	221.00	212.70	217.78		198.10	194.90	191.90	180.20	190.24	176.79	216.46	222.83	216.50	215.50	212.84	225.20	223.50	222.78	225.20	226.56	216.40	d	Dec	Ave	183.20	183.54	186.00	184.72	190.60		170.90	
M	Att. 07	217.00	208.00	215.60	212.20	211.00	214.60	220.00	218.40	235.00	198.00	194.00	190.90	179.50	189.50	175.75	219.20	222.83	216.00	215.20	212.10	224.80	223.00	225.20	225.00	227.95	217.00				181.50	183.30	187.40	182.50	188.70	177.00	169.20	182.65
20	meas.	13.00	21.00	10.40	12.80	9.00	11.40	5.00	4.80	14.00	51.00	52.00	60.10	75.50	52.50	79.25	18.80	3.10	14.00	34.80	49.90	35.20	16.00	8.80	10.00	8.05	14.00				24.50	19.70	17.60	22.50	22.30	36.00	40.80	32.35
Date	Measured	3/14/2007	3/14/2007	4/2/2007	3/14/2007	3/14/2007	3/14/2007	3/14/2007	4/2/2007	3/14/2007	3/13/2007	3/13/2007	3/13/2007	3/13/2007	3/26/2007	3/26/2007	4/2/2007	4/2/2007	3/14/2007	3/14/2007	3/26/2007	3/14/2007	3/14/2007	4/2/2007	3/14/2007	4/2/2007	3/14/2007				3/20/2007	4/6/2007	3/20/2007	4/6/2007	3/20/2007	3/21/2007	3/21/2007	4/6/2007
LSA		230.00	229.00	226.00	225.00	220.00	226.00	225.00	223.20	249.00	249.00	246.00	251.00	255.00	242.00	255.00	238.00	225.93	230.00	_	_	_	239.00	234.00	235.00	236.00	231.00				206.00	203.00	205.00	205.00	211.00	213.00	210.00	215.00
Longitude		903202	903547	903243	903045	902743		902158	+	901821	905816	905828	910121	905044	905419.37	905125	903025.35		901831	904930	904802.05	903241		902739	901934	901943.75	901831				902138	902029.86	902028	901807.57	901811	902452.9	902923	902129
Latitude		354648	354637	354449	354451	354421	354642	354716	354439.77	354403	355246	355204	354817	354852	355040.91	354918	354920.85	354911.46	354956	355626	355502.21	355513	355744	355426	355622	355627.56	355241				350410	350059.39	350010	350849.58	350849	351255.2	351227	351504
Station ID		13N05E02CCC1	13N05E06DCC1	13N05E22BAD1	13N05E24BAC1	13N06E21AD1	13N07E02CAB1	13N07E05ABB1	13N07E20BBA1	13N07E35AD1	14N01E03ACB1	14N01E10BAB1	14N01E31DCA1	14N02E15DD1	14N02E18BDD1	14N02E27AA	14N05E25ABB1	14N06E27AAB1	14N07E14DDC1	15N02E12DCB1	15N03E19ADA1	15N05E22BAB1	15N06E04BAD1	15N06E20DDD1	15N07E10DAB1	15N07E10DBA1	15N07E35DCB1				05N07E09BCA1	05N07E34BAB1	05N07E34CDD1	06N07E13BAA1	06N07E13BAB1	07N06E24CCD1	07N06E30AAA1	07N07E05DAD1
County		Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead				Crittenden							

10-16	Change					-6.60					-5.30			-4.60			-4.90				5/5	-6.14	-8.40	-10.50				-15.30	-13.00							-9.90	-8.79
02-07	Change.	-3.44			0.27	-1.20			0.07	-1.12	-8.60	1	-1.00	2.10	-0.95		-0.68				10/13	-2.27	-3.00	-0.50				-4.62	-5.00	-5.15						-4,48	-0.89
06-07	Change	-0.98	-3.00	-1.90	2.74	-2.20	-2.00	-0.60	-0.20	-1.22	-1.50	-0.73	-0.80	-0.80	-1.25	-2.90	-0.60	-1.60			21/23	-1.13	-2.00	-2.50	1.00	-10.00	-1.00	-1.16	-1.00	-1.92	6.00	-0.85	-1.00	-3.50	-1.50	-0.64	12.45
M	Alt. 97					187.40					189.80			197.10			192.90				lls:	:aßu	144.40	165.00			Sec. 1	157.50	159.00							157.00	151.19
W	Alt. 02	174.54			199.53	182.00			191.53	188.92	193.10	No. of Street, or Stre	194.20	190.40	192.85		188.68				Declines/Wells:	Average Change:	139.00	155.00			in the second se	146.82	151.00	143.65						151.58	143.29
M	Alt. 06	172.08	187.80	191.90	197.06	183.00	183.80	181.60	191.80	189.02	186.00	190.49	194.00	193.30	193.15	186.80	188.60	189.90			Dec	Avei	138.00	157.00	168.00	175.00	142.00	143.36	147.00	140.42	145.00	143.63	141.00	139.00	140.00	147.74	129.95
M	All: 07	171.10	184.80	190.00	199.80	180.80	181.80	181.00	191.60	187.80	184.50	189.76	193.20	192.50	191.90	183.90	188.00	188.30	209.22	208.43			136.00	154.50	169.00	165.00	141.00	142.20	146.00	138.50	151.00	142.78	140.00	135.50	138.50	147.10	142.40
20	meas.	35.90	30.20	21.00	14.20	34.20	32.20	34.00	29.40	31.20	30.50	31.24	29.80	32.50	29.10	31.10	33.00	25.70	15.78	16.57			64.00	80.50	36.00	40.00	74.00	74.80	74.00	78.50	74.00	82.22	85.00	82.50	71.50	72.90	111.60
Date	Measured	4/6/2007	4/6/2007	3/20/2007	4/6/2007	3/21/2007	3/21/2007	4/6/2007	4/6/2007	4/6/2007	3/21/2007	4/6/2007	3/21/2007	3/20/2007	4/6/2007	4/6/2007	4/6/2007	3/21/2007	5/8/2007	5/8/2007			5/8/2007	5/8/2007	5/10/2007	5/10/2007	5/8/2007	3/19/2007	5/8/2007	3/19/2007	5/4/2007	3/20/2007	5/4/2007	5/4/2007	5/4/2007	3/19/2007	3/20/2007
LSA		207.00	215.00	211.00	214.00	215.00	214.00	215.00	221.00	219.00	215.00	221.00	223.00	225.00	221.00	215.00	221.00	214.00	225.00	225.00			200.00	235.00	205.00	205.00	215.00	217.00	220.00	217.00	225.00	225.00	225.00	218.00	210.00	220.00	254.00
Longitude		902358.97	901941	902138	900933.58	902408		902552	901811.95	-	902146	901933	901644		901924.64	902158	902326.57	901608	901251	901250			905132	904952	903656	903202	910726	910049.05	910152	905705.29	905140	905113	905205	904623	903947	905409.17	904738,6
Latitude		351041.9	351116	351525	351453.34	352021	352114	351737	351828.34	351854.41	351618	351630	352103	352537	352447.58	352256	352159.85	352501	352144	352143			350923	350934	351028	351039	351550	351517.52	351532	351501.25	351544	351510	351455	351959	351709	351138.09	351548.89
Station ID		07N07E31CCC1	07N07E34DDA1	07N08E04BDC1	07N09E05CDD1	08N06E01DCC1	08N06E06BBB1	08N06E26BBA1	08N07E13CCC2	08N07E14DAA2	08N07E32DAA1	08N07E35BCB1	08N08E06ABB1	09N07E02CDB1	09N07E10DDA1	09N07E20DDC1	09N07E31BAB1	09N08E08CCB1	09N08E35BBD1	09N08E35BBD2			06N02E11DDB1	06N02E12AAA1	06N04E01DDB1	06N05E02BAB1	07N01E05BCD1	07N01E05CDA1	07N01E06DCD1	07N01E11AAA1	07N02E02CCD1	07N02E02CD	07N02E10BBB1	07N02E15ACA1	07N02E28CCC1	07N02E29DDC1	07N03E05ADA1
County		Crittenden	Crittenden	Crittenden	Crittenden	Crittenden	Crittenden	Crittenden	Crittenden	Crittenden			Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross										

97-07	Change.		-6.00					-12.60		-13.00		-11.00	-14.00					-3.13	-18.00		-14.87	-14.80	-13.50			-6.56	-13.50		-1.70		-	-1.65		20/20	-10.51	000	3.00	-1.18
02-07	Change	-0.85	4.00					-5.44		-1.50		-0.50	-4.00					4.08	-5.00		-7.00	-3.50	-3.00			-3.68	-0.50		5.50		1000 C	0.80		18/22	-2.01	000	-8.00	-1.56
06-07	Change	-0.42	0.00	-1.50	2.00	-0.50	0.50	-3.89	-1.00	-1.50	-2.00	-1.50	-2.00	8.50	-2.00	3.00	5.00	1.67	-2.00	-1.18	-2.90	-1.50	-2.00	-2.00	-2.00	-1.35	-3.50	0.00	-0.50	0.50	1.50	-0.52	1.00	33/47	-0.42	1 00	00.1-	-0.46
ML	All 97		181.00					177.00		152.50		151.50	152.00					179.23	153.00		155.87	153.30	149.50			150.56	156.00		191.20			180.50		lis:	:eGu	00.001	138.00	160.08
W	AR. 02	155.05	171.00					169.84		141.00		141.00	142.00					172.02	140.00		148.00	142.00	139.00			147.68	143.00		184.00		a contraction	178.05		Declines/Wells:	Average Change:	00 111	141.00	158.90
W	Alt. 06	154.62	175.00	170.00	173.00	169.00	177.00	168.29	136.00	141.00	146.00	142.00	140.00	145.00	153.00	177.00	180.00	174.43	137.00	135.91	143.90	140.00	138.00	131.00	144.00	145.35	146.00	190.00	190.00	168.00	187.00	179.37	136.00	Dec	Ave	100.00	133.00	157.80
M	Att. 07	154.20	175.00	168.50	175.00	168.50	177.50	164.40	135.00	139.50	144.00	140.50	138.00	153.50	151.00	180.00	185.00	176.10	135.00	134.73	141.00	138.50	136.00	129.00	142.00	144.00	142.50	190.00	189.50	168.50	188.50	178.85	137.00			00.001	132.00	157.34
07	meas.	96.80	30.00	46.50	25.00	41.50	32.50	40.60	85.00	85.50	76.00	89.50	87.00	71.50	114.00	25.00	25.00	27.90	90'06	91.27	84.00	86.50	89.00	96.00	108.00	107.00	102.50	15.00	25.50	36.50	21.50	31.15	93.00			0000	22.00	7.70
Date	Measured	3/19/2007	5/10/2007	5/10/2007	5/10/2007	5/7/2007	5/10/2007	3/20/2007	5/8/2007	5/7/2007	5/8/2007	5/4/2007	5/4/2007	5/4/2007	5/7/2007	5/10/2007	5/10/2007	3/20/2007	5/7/2007	3/20/2007	3/20/2007	5/7/2007	5/7/2007	5/7/2007	5/7/2007	3/20/2007	5/7/2007	5/10/2007	5/10/2007	5/10/2007	5/10/2007	3/20/2007	5/7/2007				4/3/2007	3/15/2007
LSA		251.00	205.00	215.00	200.00	210.00	210.00	205.00	220.00	225.00	220.00	230.00	225.00	225.00	265.00	205.00	210.00	204.00	225.00	226.00	225.00	225.00	225.00	225.00	250.00	251.00	245.00	205.00	215.00	205.00	210.00	210.00	230.00				154.00	165.04
Longitude		904810.28	904021	904234	903908	903103	903347	903044.79	905801	905933	910056	905002	905354	905421	904623	903916	903448	903440.45	905913	905653	910000.6	905605	905551	905431	904529	904725.6	904753	903742	903918	904041	903312	903512.11	905414				910303	912338.18
Latitude	and the second second	351045.29	351534	351457	351221	351600	351506	351228.87	352045	351855	351926	351938	351923	351704	351959	351745	351922	351631.65	352617	352505	352202.76	352155	352243	352148	352619	352408.8	352422	352552	352614	352205	352451	352150.53	352333				340428	335802.92
Station ID		07N03E32DCC1	07N04E04DBB1	07N04E07AA1	07N04E27ADB1	07N05E02AAB1	07N05E09BAA1	07N05E25ABA1	08N01E02DDC1	08N01E16DBB1	08N01E17CAD1	08N02E12DCC1	08N02E17AAA1	08N02E29ABD1	08N03E09CAC1	08N04E27ABB1	08N05E17AAC1	08N05E32ADD1	09N01E04CDB1	09N01E12BBC1	09N01E33BBA2	09N01E36AB1	09N02E30CBB1	09N02E32BBB1	09N03E03DCC1	09N03E17DDC1	09N03E17DCD1	09N04E01AAC1	09N04E03DBB1	09N04E33DBB1	09N05E10DBC1	09N05E32BDB1	09N09E20AA1				07S01E19ABA1	08S03W33ABD1
County		Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross				Desha	Desha

97-07	Change	-19.00						-12.00									-9.00				-11.00		11.00	5/7	-5.45							-6.90	-5.60				
02-07	Change	-7.00	-2.00		-1.04	-0.86		-3.00	-4.88	-5.56	0.80									-1.72	-6.00	-4.30	-6.00	 13/14	-3.65		-3.12			-4.55	-3.28	-3.70	-3.60				0.16
06-07	Change	-2.00	-3.00	-11.00	-2.06	-1.65	0.00	-2.00	-4.97	-3.70	-3.10	-2.10	-1.60	-2.40	-2.50	-3.00	-2.00	-6.00	5.00	-1.27	-1.00	-1.38	-1.00	 22/24	-2.26		-1.96	-5.90	-2.20	-3.12	-1.97	-1.70	-1.00	-1.06	-1.90	-4.60	3.17
M	Alt. 97	145.00						128.00									121.00				102.00		79.00	ils:	:eBu							124.20	130.60				
M	Alt. 02	133.00	115.00		118.92	121.34		119.00	117.38	112.06	105.20									102.62	97.00	95.80	96.00	Declines/Wells:	Average Change:		136.02			149.95	132.08	121.00	128.60				131,84
ML	Alt. 06	128.00	116.00	121.00	119.94	122.13	121.00	118.00	117.47	110.20	109.10	133.00	123.00	134.20	133.00	108.00	114.00	120.00	101.00	102.17	92.00	92.88	91.00	Dec	Ave		134.86	132.30	127.54	148.52	130.77	119.00	126.00	119.86	114.40	144.50	128.83
ML	Alt. 07	126.00	113.00	110.00	117.88	120.48	121.00	116.00	112.50	106.50	106.00	130.90	121.40	131.80	130.50	105.00	112.00	114.00	106.00	100.90	91.00	91.50	90.00				132.90	126.40	125.34	145.40	128.80	117.30	125.00	118.80	112.50	139.90	132.00
10	meas.	30.00	39.00	43.00	31.39	34.60	42.00	30.00	30.50	48.50	44.00	33.10	33.60	28.20	29.50	34.00	36.00	32.00	40.00	32.10	44.00	48.50	52.00				27.10	33.60	28.66	39.60	26.20	31.70	20.00	19.20	27.50	45.10	59.00
Date	Measured	4/3/2007	4/3/2007	4/3/2007	3/15/2007	3/15/2007	4/3/2007	4/3/2007	3/15/2007	3/15/2007	3/15/2007	3/9/2007	3/9/2007	3/9/2007	3/9/2007	4/3/2007	4/3/2007	4/3/2007	4/3/2007	3/15/2007	4/3/2007	3/15/2007	4/3/2007				3/1/2007	3/1/2007	3/1/2007	3/12/2007	3/1/2007	3/1/2007	4/16/2007	3/12/2007	3/12/2007	3/12/2007	3/12/2007
LSA		156.00	152.00	153.00	149.27	155.08	163.00	146.00	143.00	155.00	150.00	164.00	155.00	160.00	160.00	139.00	148.00	146.00	146.00	133.00	135.00	140.00	142.00				160.00	160.00	154.00	185.00	155.00	149.00	145.00	138.00	140.00	185.00	191.00
Longitude	and a second second	911234	911055	911920	911529.64	912456.66	912821	911517	911453.44	912144.55	912235	913052	912754	913233	913012	912412	911635	911019	911938	911734.76	911917	912301.83	912241				913136.2	913404	912842	913837.16	912946.13	912738	913034	913100	912757	913747	914201.6
Latitude		335608	335501	355502	335256.57	335448.23	335823	335045	334849.63	334806	334759	335059	335048	334901	334929	334416	334446	333803	333535	333223.99	333126	333505.64	333503				334531.98	334550	334144	334546.48	334133.92	333739	333512	333206	333110	333248	333544.69
Station ID	The contraction of the second	09S01W08BDA1	09S01W15CBB1	09S02W17CBC1	09S02W26DDC1	09S03W17DCB1	09S04W02CDA1	10S02W11ADD1	10S02W24DBC1	10S03W26CAA1	10S03W26CCC	10S04W09BCD1	10S04W12BBB1	10S04W19DAC1	10S04W21AAA1	11S03W21ABB1	11S02W15BAD1	12S01W23DBC1	13S02W05CDD1	13S02W27CAC1	13S02W32DBD1	13S03W10DA1	13S03W11CAB1				11S04W08DBA1	11S04W09BBB	11S04W35DC1	11S05W08CCC1	12S04W03ABB1	12S04W25DBB1	13S04W09ACD1	13S04W33BAA1	13S04W36DCC	13S05W29ADA1	13S06W03DDC1
County		Desha	Desha	Desha	Desha	Desha	Desha	Desha	Desha	Desha	Desha	Desha	Desha	Desha	Desha				Drew	Drew	Drew	Drew	Drew	Drew	Drew	Drew	Drew	Drew	Drew								

97-07	Change.	-4.00	-9.00		-5.20		5/5	-6.14						-7.40		-14.00	-1.50							-8.20									-4.60					
02-07	Change	-6.00	-5.00		-3.00	-2.00	9/10	-3.41		4.69	-7.00	-3.60		0.80		-0.40	2.60	2.02	-0.20		-1.40		-3.04	3.90		-2.00	-2.20	-4.10	-7.96	-12.40	-2.10		-2.70			-0.84	-11.20	-4.50
06-07	Change	-13.00	-2.00	-6.70	-2.00	-1.00	15/16	-2.93		-2.77	-3.40	-2.80	-1.70	2,50		-2.60	-0.10	-0.64	-9.60		2.40		-0.61	-0.20		-0.30	-0.30	-0.10	-5.37		-1.20		2.20	6.42	1.50	0.96	-8.50	-7.10
M	Alt. 97	124.00	121.00		120.20		lls:	:aßu						235.40		222.50	223.30							244.90									257.50					
MIT	Alt. 02	126.00	117.00		118.00	117.00	Declines/Wells:	Average Change:		231.19	230.10	232.00		227.20		208.90	219.20	222.58	237.40		232.20	319.00	230.04	232.80		241.90	240.50	244.40	240.96	239.10	263.00		255.60			253.30	242.70	245.20
ML	AIL 06	133.00	114.00	121.80	117.00	116.00	Dec	Avei		229.27	226.50	231.20	226.40	225.50		211.10	221.90	225.24	246.80		228.40		227.61	236.90		240.20	238.60	240.40	238.37		262.10		250.70	246.08	241.20	251.50	240.00	247.80
M	Alt. 07	120.00	112.00	115.10	115.00	115.00				226.50	223.10	228.40	224.70	228.00	216.40	208.50	221.80	224.60	237.20	220.20	230.80	235.67	227.00	236.70	241.40	239.90	238.30	240.30	233.00	226.70	260.90	260.80	252.90	252.50	242.70	252.46	231.50	240.70
07	meas.	87.00	29.00	24.90	16.00	16.00				33.50	33.90	29.60	40.30	29.00	41.60	52.50	27.20	26.40	29.80	39.80	40.20	83.33	38.00	31.30	6.60	6.10	31.70	32.70	61.00	50.30	16.10	14.20	9.10	4.50	7.30	28.54	44.50	41.30
Date	Measured	4/10/2007	4/10/2007	3/12/2007	4/23/2007	4/23/2007				4/5/2007	4/19/2007	4/19/2007	4/5/2007	4/19/2007	4/6/2007	4/19/2007	4/19/2007	4/6/2007	4/19/2007	4/19/2007	4/19/2007	4/5/2007	4/5/2007	4/19/2007	4/19/2007	4/19/2007	4/5/2007	4/19/2007	4/6/2007	4/19/2007	4/19/2007	4/19/2007	4/19/2007	4/4/2007	4/4/2007	4/5/2007	4/19/2007	4/19/2007
LSA		207.00	141.00	140.00	131.00	131.00			A Contraction	260.00	257.00	258.00	265.00	257.00	258.00	261.00	249.00	251.00	267.00	260.00	271.00	319.00	265.00	268.00	248.00	246.00	270.00	273.00	294.00	277.00	277.00	275.00	262.00	257.00	250.00	281.00	276.00	282.00
Longitude		914258	912929	912944	913218	913226				904515.85	904750	904547	904519	904722	902625.9	902651	902705	902657.01	904352	904626	904129	903917	904217.57	902546	901745.5	901951	904234	903854	903724.76	903845	902357	902034.6	902105	902113.23	901747	904258.43	904516	903102
Latitude		333324	333050	333039	333047	333042				360315.87	360316	360049	360000	355926	360224.07	360215	360031	355938.31	360806	360422	360712	360431	360409.09	360631	360822.5	360744	361141	361356	361052.32	361003	361056	361317.08	361203	361110.37	361022	361600.72	361418	361437
Station ID.		13S06W21DAA1	14S04W03ADD1	14S04W03CBA1	14S04W05CBA1	14S04W05CBC1				16N03E03BA1	16N03E05BBB1	16N03E16DDD1	16N03E19DBC1	16N03E29ACC1	16N06E03CCC1	16N06E09ABB1	16N06E21BAA1	16N06E28ABB1	17N03E02DCC1	17N03E26CBB1	17N04E07DDA1	17N04E28DAA1	17N04E30CDC1	17N06E15ABC1	17N07E01BBA1	17N07E03CCC1	18N03E24ABA1	18N04E04AAC1	18N04E21CBD1	18N04E28DAD1	18N06E23ACB1	18N07E05DAB1	18N07E17BAB1	18N07E20BBA1	18N07E23CCD1	19N03E26AD1	19N03E33DDD1	19N05E34AAD1
County		Drew	Drew	Drew	Drew	Drew				Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene	Greene

97-07	Change	-	5/2	-7.14					-9.70		-2.50		2/2								-10.60							-11.49	212			-5.20	-13.00				
02-07	Change		17/21	-2.91		0.31	-6.26	-12.50	-9.28	-2.71	10.50	-1.60	5/7	-3.08	-	4.23	-1.68		-2.07		-3.83	-0.70	11.20	3.36	-2.01		3.62	-1.44	7/10	0.00	44.0	-3.28		-3.50	-1.60	8.00	
08-07	Change		17/23	-1.36	Second Second	0.31	5.03	2.41	3.74		-0.60	2.83	1/6	2.29		-1.58	-1.31	-1.50	-2.06	-0.85	-1.54	11.38	11.40	-0.26	-1.34	-0.10	5.78	0.63	9/13	4 43	24.1	-0.87	13.00	-1.30	1.61	-2.10	-2.46
M	Att. 97		IS:	:ebu	1				223.80		234.50		lls:	:eGu							169.00							220.69	lle.		-afi	155.30	194.00				
M	All. 02		Declines/Wells:	Average Change:		214.89	215.26	222.40	223.38	389.91	221.50	228.50	Declines/Wells:	Average Change:		155.93	190.08		199.07		162.23	212.85	192.97	197.14	203.41		217.23	210.64	Declinee/Welle-	out on the	Average criatige.	153.38		179.50	190.10	176.00	
M	Alt. 06		Dec	Aver		214.89	203.97	207.49	210.36		232.60	224.07	Dec	Aver		153.28	189.71	170.60	199.06	177.32	159.94	200.77	192.77	200.76	202.74	196.60	215.07	208.57		A set	AVA	150.97	168.00	177.30	186.89	186.10	186.66
ML	Att. 07					215.20	209.00	209.90	214.10	387.20	232.00	226.90				151.70	188.40	169.10	197.00	176.47	158.40	212.15	204.17	200.50	201.40	196.50	220.85	209.20				150.10	181.00	176.00	188.50	184.00	184.20
10	meas.					20.8	22.00	21.10	21.90	3.80	3.00	3.10				63.30	31.60	55.90	30.00	54.53	68.60	10.85	10.83	33.50	40.60	36.50	11.15	41.80				51.90	43.00	42.00	27.50	30.00	33.80
Date	Measured					3/25/2007	3/25/2007	3/24/2007	3/24/2007	3/25/2007	3/25/2007	3/25/2007				2/23/2007	2/23/2007	3/25/2007	3/6/2007	3/25/2007	3/25/2007	3/7/2007	3/7/2007	3/25/2007	3/25/2007	3/25/2007	3/27/2007	3/15/2007				3/8/2007	4/5/2007	4/5/2007	3/8/2007	4/5/2007	3/8/2007
LSA.						236.00	231.00	231.00	236.00		5					215.00	220.00	225.00	227.00	231.00	227.00	223.00	215.00	234.00	242.00	233.00	232.00	251.00		Ī	T	202.00	224.00	218.00	216.00	214.00	218.00
Longitude						912535	912236.26	912512.5	912827.22	912347	911703	911640.42					911347.79	910602	911311		910323.21	912008.5	912047	910852.17	910627.47	910435	911749.46	910515.16				914953.19	_	915728.43		<b>—</b>	
Latitude						354047	353929.42	353720.1	353738.04	354803	355101	355106				352331.57	352151.79	353114	352828	353358	353329.77	353655.13	353615	353909.97	354514.14	354327	354525.9	355220.36				342620.37	342712	342639.63	342516.81	342428	342415
Station ID						12N04W09CAA1	12N04W14DD1	12N04W34CBB1	12N05W36AAA1	13N04W02BBC1	14N03W14CBB1	14N03W14DBB1				09N01W22ADD1	09N02W32CBB1	10N01W04DCB1	10N02W29ABB1	11N01W10DA	11N01W26AAD1	11N03W06DAB1	11N03W07BBD1	12N02W25ABB2	13N01W20AAA1	13N01W27DDD1	13N03W15CDD1	14N01W09AAA1				03S08W24BBC1	03S09W14BCD1	03S09W22AAA1	03S09W29CBD1	03S09W36ACC1	03S09W32CBC1
County						Independence				Jackson	Jackson	Jackson	Jackson	Jackson	Jackson	Jackson	Jackson	Jackson	Jackson	Jackson	Jackson	Jackson				. Infforson	Jefferson	Jefferson	Jefferson	Jefferson	Jefferson						

97-07	Change	-0.60			-12.80			-1.10	4.05				-10.76				6/7	-5.63							2.10	-10.10		-7.60		-5.80	-11.50	-11.20	5/6	-7.35
02-07	Change	-1.00			-5.30	0.40	-2.80	-2.00	-4.49		-0.09	0.70	-5.24	-2.66	2.60	-0.06	12/16	-1.27		-2.75		-13.05	-8.34		5.90	-5.70		-3.60		-0.90	-4.80	-5.10	8/8	4.26
08-07	Change	0.30	2.00	-0.85	-4.50	5.04	-1.50	3.00	-0.05	-2.30	2.18	-0.92	-3.27	-1.73	1.60	-1.05	13/21	0.28		-0.37		-11.12	-5.74	-9.50	5.50	0.40	-1.40	0.00	-1.00	-0.10	-1.40	-1.10	9/12	-2.15
WL	Alt. 97	197.10			166.00			193.10	165.27				175.27				lis:	:a6u							236.80	217.40		252.60		249.60	239.20	237.00	lls:	:000
ML	Alt. 02	197.50			158.50	160.30	180.00	194.00	173.81		177.54	156.94	169.75	183.86	159.00	182.67	Declines/Wells:	Average Change:		201.45		206.95	217.84	ALC: NOT THE OWNER	233.00	213.00		248.60		244.70	232.50	230.90	Declines/Wells:	Average Change:
ML	Alt. 06	196.20	199.30	147.25	157.70	155.66	178.70	189.00	169.37	180.80	175.27	158.56	167.78	182.93	160.00	183.66	De	Avei		199.07		205.02	215.24	209.50	233.40	206.90	206.80	245.00	229.00	243.90	229.10	226.90	Dec	Ave
M	Alt. 07	196.50	201.30	146.40	153.20	160.70	177.20	192.00	169.32	178.50	177.45	157.64	164.51	181.20	161.60	182.61			204.70	198.70	201.75	193.90	209.50	200.00	238.90	207.30	205.40	245.00	228.00	243.80	227.70	225.80		
07	meas.	18.50	13.70	48.60	31.80	43.30	34.80	20.00	19.90	16.50	16.80	19.50	24.50	17.80	26.40	19.70			54.30	52.30	52.25	56.10	52.50	60.00	16.10	47.70	50.60	15.00	37.00	13.20	42.30	39.20		
Date	Measured	4/5/2007	4/5/2007	3/8/2007	4/5/2007	3/8/2007	4/5/2007	4/5/2007	3/8/2007	4/5/2007	3/7/2007	3/8/2007	3/8/2007	3/8/2007	4/5/2007	3/8/2007			5/1/2007	3/20/2007	5/1/2007	3/20/2007	5/1/2007	3/20/2007	3/20/2007	3/15/2007	3/14/2007	3/18/2007	5/1/2007	3/19/2007	3/17/2007	3/16/2007		
LSA		215.00	215.00	195.00	185.00	204.00	212.00	212.00	189.22	195.00	194.25	177.14	189.01	199.00	188.00	202.31			259.00	251.00	254.00	250.00	262.00	260.00	255.00	255.00	256.00	260.00	265.00	257.00	270.00	265.00		
Longitude		920249	920357	914745	914347	914926.45	915717	920008	914206.1	914651	914907	913245	913712.2	914425	914828	915647.26			905900	905651	910027	910356.33	905639.37	905750	910723.26	905208	905004	905707	905738	910158	905224	904948		
Latitude		342427	342446	342226	341836	342122.85	342325	341859	341329.94	341412	341712	341022.95	341006.74	341124.96	340722	340858.53			355714	355412	355352	355336.15	360203.04	355938	355936.93	355831	360409	360901	360522	360435	360758	360423		
Station ID		03S10W26BBB2	03S10W35BBC1	04S07W08CBB1	04S07W35DDB1	04S08W13DCB1	04S09W02CBD1	04S09W32DDA1	05S06W31CAA1	05S07W28CCC1	05S08W12DAA1	06S05W15BCA1	06S06W23AAD1	06S07W14BAA1	07S07W16BAA1	07S08W06BAA1			15N01E09ABD1	15N01E26DDA1	15N01E32BAA1	15N01W35CBB1	16N01E11DAC2	16N01E27ADC1	16N01W30DDC1	16N02E34CBB1	16N02E35AAA1	17N01E02BBA1	17N01E26CCC1	17N01W36AB1	17N02E04DCA1	17N02E25CBD1		
County		Jefferson			Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence																

20-26	Change	-20.00		-12.20	-13.00		-18.20	-12.00	-8.50	-6.90			-8.00		-13.20			-42.00			-10.00		-11.00	-13.00	-7.30		-8.00		-11.50			-16.50	-14.00		-18.50		-2.00	20/20	-13.29
02-07	Change	-7.50		-7.70	4.00	-11.00	-8.00	4.50	-5.50	4.00	0.76		-4.50	-1.18	-3.70	-3.53	7.60	-15.50	-1.70	-4.29	-3.00	-0.55	-3.50	2.00	-3.00	-2.43	-3.00		-2.00	-0.24	-1.97	-8.00	1.00	-0.40	-1.50	-0.34	-0.50	29/33	-3.20
06-07	Change:	-3.00	0.00	-4.70	-1.00	-1.00	-8.00	-1.00	-1.00	0.00	-4.13	-3.40	1.00	-3.81	0.80	-0.92	5.70	-8.00	-1.10	-0.84	-7.00	-1.11	-1.00	8.00	-1.50	-3.38	0.00		-6.00	0.98	-2.39	-2.50	0.00	0.72	-3.00	-0.74	0.00	24/35	-1.52
M	Alt. 97	166.50		176.20	191.00		189.20	182.50	177.50	177.90			197.00		163.70			162.00			175.00		179.00	186.00	173.30		146.00		174.50		in and	168.50	181.00		185.50		180.00	IIs:	:ebu
M	All 02	154.00		171.70	182.00	180.00	179.00	175.00	174.50	175.00	182.97		193.50	189.13	154.20	154.43	132.10	135.50	154.20	160.99	168.00	166.55	171.50	171.00	169.00	173.43	141.00		165.00	163.24	161.87	160.00	166.00	155.20	168.50	179.04	178.50	Declines/Wells:	Average Change:
ML	Alt. 08	149.50	155.00	168.70	179.00	170.00	179.00	171.50	170.00	171.00	187.86	181.50	188.00	191.76	149.70	151.82	134.00	128.00	153.60	157.54	172.00	167.11	169.00	165.00	167.50	174.38	138.00		169.00	162.02	162.29	154.50	167.00	154.08	170.00	179.44	178.00	Dec	Avei
M	AR. 07	146.50	155.00	164.00	178.00	169.00	171.00	170.50	169.00	171.00	183.73	178.10	189.00	187.95	150.50	150.90	139.70	120.00	152.50	156.70	165.00	166.00	168.00	173.00	166.00	171.00	138.00	142.02	163.00	163.00	159.90	152.00	167.00	154.80	167.00	178.70	178.00		
20	meas.	35.50	54.00	21.00	29.00	33.00	35.00	29.50	17.00	14.00	52.70	21.90	15.00	14.05	34.50	51.10	45.30	60.00	47.50	44.30	35.00	45.00	52.00	42.00	26.00	21.00	62.00	62.98	47.00	49.00	45.10	52.00	29.00	49.20	33.00	14.30	7.00		
Date	Measured	4/24/2007	4/18/2007	4/24/2007	4/24/2007	4/22/2007	4/24/2007	4/24/2007	4/24/2007	4/24/2007	4/3/2007	4/3/2007	4/24/2007	4/3/2007	4/18/2007	4/3/2007	4/3/2007	4/24/2007	4/3/2007	4/3/2007	4/18/2007	4/5/2007	4/18/2007	4/18/2007	4/26/2007	4/5/2007	4/18/2007	4/14/2007	4/18/2007	4/5/2007	4/5/2007	4/24/2007	4/24/2007	4/5/2007	4/24/2007	4/4/2007	4/26/2007		
LSA		182.00	209.00	185.00	207.00	202.00	206.00	200.00	186.00	185.00	236.43	200.00	204.00	202.00	185.00	202.00	185.00	180.00	200.00	201.00	200.00	211.00	220.00	215.00	192.00	192.00	200.00	205.00	210.00	212.00	205.00	204.00	196.00	204.00	200.00	193.00	185.00		
Longitude		910054	910055	905729	905016	905208	905040	905318	905434	905433	904601.14	905044	904605	904549	910005	905820.4	910108	910520	905602	905338.75	905327	904837	904707	904846	903954	903950.39	910150	905947	905053	905107.32	905429.78	904837	904919	904926.23	904312	903203.25	903215		
Latitude		344215	344030	344033	344330	344255	344254	344056	343858	343851	344339.29	344258	343952	343923	344633	344631.74	344542	344410	344752	344807.34	344628	344810	344723	344500	344855	344636.73	344951	345206	345239	345237.4	345013.62	345327	345206	344932.65	345245	345148.08	345020		
Station ID		01N01E09CCC1	01N01E21CCC1	01N01E24CBD1	01N02E01ADD1	01N02E11BAB1	01N02E12ABB1	01N02E22CBA1	01N02E33CBB1	01N02E33CCB1	01N03E02BBC1	01N03E7BBB1	01N03E27ADD1	01N03E35BBA1	02N01E21BAA1	02N01E23BAA2	02N01E29ABC1	02N01W34DDC1	02N02E07ACA1	02N02E08ADC1	02N02E22BBB1	02N03E08AAD1	02N03E09DDD1	02N03E29CAD1	02N04E03ABD1	02N04E15DAC1	03N01E32BCC1	03N01E15CC1	03N02E12CDC1	03N02E13BBA1	03N02E29DAD1	03N03E05CDD1	03N03E18DAB1	03N03E32CAB1	03N04E07CBB1	03N05E14DDA1	03N05E26ADC1		22
County		Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee	Lee											

97-07	Change	-10.00	-11.00	-5.00				-5.00	-11.00			-3.48	-16.00	0				-8.00	-6.10					6/6	-8.40		-14.90				-8.60		-5.20		-2.60			
02-07	Change	-9.00	3.00	2.00			0.00	2.00	-1.00	-2.21	-1.72		-10.00		-2.38	1.59	-3.55	2.00	-0.83			0.82		8/15	-1.29	-1.80	-5.70	-3.93	-2.25	0.20	0.00	0.55	3.80	-1.13	1.30			-3.30
06-07	Change	-3.00	00.00	5.00	-1.37	-2.00	-1.00	1.00	-2.00	-1.35	-0.44		-2.00		-1.79	2.99	-4.28	0.00	-0.37	1.00	-1.25	1.82	1000	12/19	-0.48		4.00		-1.26	-2.00			-2.30	-1.37	-1.00			-1.65
M	Att. 97	178.00	156.00	161.00				141.00	138.00			161.78	137.00					150.00	151.00					ils:	nge:		108.70				149.10		218.20		125.60			
M	Alt. 02	177.00	142.00	154.00			133.00	134.00	128.00	139.64	161.32		131.00		135.88	131.31	142.15	140.00	145.73			146.08		Declines/Wells:	Average Change:	88.45	99.50	111.33	140.25	190.80	140.50	209.45	209.20	121.63	121.70			130.65
ML	Alt. 06	171.00	145.00	151.00	129.27	149.00	134.00	135.00	129.00	138.78	160.04		123.00		135.29	129.91	142.88	142.00	145.27	146.00	145.65	145.08	1 2 2 2	De	Ave		89.80		139.26	193.00			215.30	121.87	124.00			129.00
M	Att. 07	168.00	145.00	156.00	127.90	147.00	133.00	136.00	127.00	137.43	159.60	158.30	121.00	129.50	133.50	132.90	138.60	142.00	144.90	147.00	144.40	146.90				86.65	93.80	107.40	138.00	191.00	140.50	210.00	213.00	120.50	123.00	74.75	122.32	127.35
20	meas	22.00	38.00	15.00	34.00	24.00	36.00	40.00	45.00	43.60	30.40	31.50	42.00	44.30	39.00	38.10	42.40	36.00	30.10	30.00	27.60	28.10				133.35	135.20	104.60	88.00	49.00	87.50	30.00	27.00	79.50	78.00	136.25	83.68	82.65
Date	Measured	5/9/2007	5/9/2007	5/9/2007	3/9/2007	5/9/2007	5/9/2007	5/9/2007	5/9/2007	3/9/2007	3/5/2007	3/9/2007	5/9/2007	3/9/2007	3/9/2007	3/9/2007	3/9/2007	5/9/2007	3/9/2007	5/9/2007	3/9/2007	3/9/2007				3/14/2007	4/12/2007	3/14/2007	3/14/2007	4/12/2007	4/12/2007	3/10/2007	4/12/2007	2/28/2007	4/12/2007	3/14/2007	3/14/2007	2/28/2007
LSA		190.00	183.00	171.00	161.90	171.00	169.00	176.00	172.00	181.03	190.00	189.80	163.00	173.80	172.50	171.00	181.00	178.00	175.00	177.00	172.00	175.00				220.00	229.00	212.00	226.00	240.00	228.00	240.00	240.00	200.00	201.00	211.00	206.00	210.00
Longitude		914114	914529	913116	913149.69	913222	913533	913044	913644	913957.73	914903	914845	913252	913350	913439.08	913819.95	914345.83	914335	914136.37	913954	913832	913907.96				914410	915050	915042	915517.01	900028	915537	920321	920414	914131.48	914056	914308	914746	914912.37
Latitude		340828	340411	340341	335901.09	340229	340027	340021	335840	340338.84	340301	340248	335721	335505	335553.02	335551.59	335821.38	335759	335439.57	335452	335529	335155.3				344103	344411	344033	344235.17	344330	344120	344355	344236	343459.39	343501	343820	343609	343605.64
Station ID		07S06W03CCA2	07S07W36CBD1	08S04W06ABD1	08S04W31CBA1	08S05W12DBA1	08S05W21DCD1	08S05W29ABC1	08S05W32DCC1	08S06W02ACB1	08S07W05DD01	08S07W09BBD1	09S04W06CBB1	09S05W13CDB1	09S05W14ABC1	09S05W17BCB1	09S06W04BCD1	09S06W04BDD1	09S06W23CDB1	09S06W24DAA1	10S05W05CB	10S05W06DCC1				01N07W27AAD1	01N08W03DDA1	01N08W26CCB1	01N09W13DAB1	01N09W07DA1	01N09W25BAA1	01N10W11BBD1	01N10W15CDA1	01S06W31ABB1	01S06W32BBB1	01S07W12BCB1	01S07W19DC1	01S08W24CDD1
County		Lincoln	Lincoln	Lincoln				Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke																		

ifer	Change
vial Aqu	-07 WL
Allun	97-02-06

10-16	Change		-10.90			-10.10											-2.30						-2.10					-10.10				-3.60	10/10	-7.04	-8.00	-7.50	
02-07	Change.	3.00	-3.14	-0.60		0.60	-5.11	-4.90		4.46	1.08	5.04	2.97	-0.30	-1.30	4.52		-5.20	-3.30	-7.80			-1.64	-1.00	-3.78	-8.27	-3.45	-0.70	-4.17	-1.06	-2.20	-2.52	26/37	-1.62	-2.60	-3.00	-1.00
20-90	Change	-2.50	-1.39	-0.68	-0.40	8.20	-2.56	5.09	-1.21	2.74							-1.00		0.20	-5.90	-1.70	-1.10	1.24	-2.00	-0.57	-1.08	-0.60		-1.17	-1.64		0.26	22/29	-0.46	-4.00	-3.00	-0.16
M	AH. 97		167.00			110.10											211.80						189.90					136.90				194.00	ells:	nge:	203.00	203.50	
ML	Att. 02	141.50	159.24	190.00		99.40	104.91	111.60		132.16	169.32	165.01	169.08	170.65	171.45	164.58		239.10	138.10	142.30			189.44	166.00	147.78	146.27	118.75	127.50	134.32	192.96	199.50	192.92	Declines/Wells:	Average Change:	197.60	199.00	200.80
M	Alt. 08	147.00	157.49	190.08	203.13	91.80	102.36	101.61	101.21	124.96						1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	210.50	Concerned of the	134.60	140.40	153.66	150.50	186.56	167.00	144.57	139.08	115.90		131.32	193.54		190.14	De	Ave	199.00	199.00	199.96
M	Alt. 07	144.50	156.10	189.40	202.73	100.00	99.80	106.70	100.00	127.70	170.40	170.05	172.05	170.35	170.15	169.10	209.50	233.90	134,80	134.50	151.96	149.40	187.80	165.00	144.00	138.00	115.30	126.80	130.15	191.90	197.30	190.40			195.00	196.00	199.80
07	meas.	85.50	63.90	46.60	32.27	132.00	140.20	123.30	130.00	123.30	82.80	84.95	82.95	84.65	84.85	85.90	32.50	8.10	70.20	66.50	69.04	61.60	38.20	52.00	83.00	96.00	116.70	108.20	119.85	58.10	59.70	34.60			29.00	28.00	24.20
Date	Measured	4/12/2007	2/28/2007	2/28/2007	3/20/2007	4/12/2007	3/13/2007	3/16/2007	3/16/2007	3/16/2007	3/9/2007	3/20/2007	3/20/2007	3/20/2007	3/20/2007	3/20/2007	4/12/2007	3/16/2007	4/12/2007	4/12/2007	3/16/2007	3/16/2007	2/28/2007	4/12/2007	3/13/2007	4/12/2007	3/13/2007	4/12/2007	4/10/2007	3/13/2007	3/16/2007	3/13/2007			4/20/2007	4/20/2007	4/4/2007
LSA		230.00	220.00	236.00	235.00	232.00	240.00	230.00	230.00	251.00	253.20	255.00	255.00	255.00	255.00	255.00	242.00	242.00	205.00	201.00	221.00	211.00	226.00	217.00	227.00	234.00	232.00	235.00	250.00	250.00	257.00	225.00			224.00	224.00	224.00
Longitude		915623	915618.98	920214.96	920337	914707	914539.5	915113.61	915106	915840.93	920006	920010	920010	920022	920020	920011	920352	920321	914715	914655	915447	915237	920116.01	915652	914416.62	914558.4	914332.11	915007	915258	915255.43	920356	915121.25			901415	901407	901312.16
Latitude		343857	343435.31	343926.84	343839	344845	344815.2	344806.48	344543	344955.06	344746	344753	344751	344755	344754	344754	344807	344725	343326	343112	343430	343008	343014.34	343008	345252.79	345128.53	344957.16	345100	345057	345058.68	345058	345832.92			352852	352830	352850.89
Station ID		01S09W02DDD1	01S09W36CCC1	01S10W01ACB1	01S10W11CCB1	02N07W07DAA1	02N07W16BAB1	02N08W16ABC1	02N08W34BA1	02N09W02BDB1	02N09W17CCB1	02N09W17CBC1	02N09W17CBC2	02N09W18DAA1	02N09W18DAD2	02N09W18DAD3	02N10W15ACC1	02N10W23BCA1	02S07W05CDC1	02S07W20ACD1	02S08W06AAB1	02S08W28CDC	02S09W30CDD1	02S09W35AB1	03N07W15DBC2	03N07W29ADA1	03N07W35CDC2	03N08W26CDC1	03N08W32ABB2	03N08W32ABB3	03N10W34ABB1	04N08W15BCB2			10N08E21ABA1	10N08E21BDC1	10N08E22ABA2
County		Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke	Lonoke			Mississippi	Mississippi	Mississippi						

97-07	Change			-9.50			-11.83	-5.00	-6.17	-12.00	-11.33	-2.50					-2.33	-2.00				-5.00			4.83		-2.00	-4.33			15/15	-6.29				4.00	-6.40	
02-07	Change	-2.26	-0.88	-4.20	-2.16		-8.50	-4.30	-1.60	-9.50	-5.10	2.50		-3.29	-2.60	-2.55	-1.00	0.50	-3.05	-1.63	2.90	-4.70	-0.40	-2.63	-1.00		4.60	-4.72	-2.90		24/28	-2.32	-5.00			-2.00	2.21	-10.38
08-07	Change	-1.06	-1.30	1.00	1.47		-0.50	4.00	9.00	1.00	-3.00	0.50	1.55	2.68	-0.12	1.98	0.00	1.50	0.72	-0.24	3.00	2.50		1.47	3.00	0.05	3.00	1.35	-0.30		10/29	06.0	-2.30	0.36	-0.97	1.00	-0.27	-9.05
M	Alt. 97			226.50			216.33	224.00	230.17	225.00	227.33	224.00					222.33	228.50				232.50			234.83		252.00	232.33			ils:	nge:				151.00	162.50	
ML	Alt. 02	215.36	217.88	221.20	218.56		213.00	223.30	225.60	222.50	221.10	219.00		223.09	228.90	231.15	221.00	226.00	226.75	243.13	232.10	232.20	239.60	228.13	231.00		245.40	232.72	244.90		Declines/Wells:	Average Change	147.13			157.00	153.89	124.18
M	All. 06	214.16	218.30	216.00	214.93		205.00	215.00	215.00	212.00	219.00	221.00	224.45	217.12	226.42	226.62	220.00	225.00	222.98	241.74	232.00	225.00		224.03	227.00	231.45	247.00	226.65	242.30		De	Ave	144.43	135.86	142.79	154.00	156.37	122.85
M	Alt. 07	213.10	217.00	217.00	216.40	222.80	204.50	219.00	224.00	213.00	216.00	221.50	226.00	219.80	226.30	228.60	220.00	226.50	223.70	241.50	235.00	227.50	239.20	225.50	230.00	231.50	250.00	228.00	242.00				142.13	136.22	141.82	155.00	156.10	113.80
20	meas.	16.90	18.00	19.00	8.60	2.20	20.50	13.00	11.00	21.00	20.00	8.50	6.00	10.20	8.70	6.40	5.00	3.50	12.30	5.50	5.00	12.50	10.80	10.50	10.00	8.50	8.00	10.00	13.00				38.87	48.78	40.18	15.00	28.90	104.20
Date	Measured	4/4/2007	4/4/2007	4/20/2007	4/3/2007	4/3/2007	4/20/2007	4/19/2007	4/16/2007	4/19/2007	4/20/2007	4/17/2007	4/3/2007	4/3/2007	4/3/2007	4/4/2007	4/16/2007	4/16/2007	4/4/2007	4/3/2007	4/17/2007	4/17/2007	4/3/2007	4/4/2007	4/17/2007	4/4/2007	4/17/2007	4/17/2007	4/4/2007	2000			3/8/2007	3/8/2007	3/8/2007	4/5/2007	3/8/2007	3/8/2007
LSA		230.00	235.00	236.00	225.00	225.00	225.00	232.00	235.00	234.00	236.00	230.00	232.00	230.00	235.00	235.00	225.00	230.00	236.00	247.00	240.00	240.00	250.00	236.00	240.00	240.00	258.00	238.00	255.00				181.00	185.00	182.00	170.00	185.00	218.00
Longitude		900925.66	900715.17	900202	901559.25	901104	901406	900449	900136	900404	900122	901112	900425	901028.63	900024	901051.94	901458	901235	900345.36	895432.97	895639	895508	894936	901526.26	900135	900018	894601	900156.03	895231.23				910706.66	910542	911031.9	911743	911650.59	912648.52
Latitude		352949.05	353217.73	353530	354047.06	353851	353707	354054	354124	354036	353842	354428	354437	354247.81	354218	355104.17	354921	354803	355022.36	355158.11	354955	354727	355134	355604.96	355447	355259	355704	355906.13	355947.24				344037.18	344139	344242.3	344124	344135.21	343959,52
Station ID		10N09E08ACC1	11N09E34BBB1	11N10E09BCB1	12N08E08BCB1	12N08E27ACA1	12N08E28DDB1	12N09E12ABC1	12N10E04CAA1	12N10E07BCD1	12N10E21DBA1	13N08E24ABB1	13N09E013DDA1	13N09E30CCD1	13N10E34DBB1	14N08E12DAB1	14N08E20DAA1	14N08E26DCC1	14N10E18ABC1	14N11E03BCB1	14N11E17CCB1	14N11E33CAA1	14N12E05DCB1	15N08E08DBC2	15N10E21ABC1	15N10E34AAC1	15N12E01BCD1	16N10E28BBD1	16N11E23ADA1				01N01W21CDC2	01N01W15CBD1	01N02W12CBC1	01N03W23BAC1	01N03W24BBB1	01N04W33BBB2
County		Mississippi	Mississippi	Mississippi	Mississippi	Mississippi	Mississippi	Mississippi	Mississippi	Mississippi	Mississippi	Mississippi	Mississippi	Mississippi	Mississippi	Mississippi	Mississippi	Mississippi				Monroe	Monroe	Monroe	Monroe	Monroe	Monroe											

97-07	Change.		-4.00		-3.60			-10.50		-7.00	-3.00		1.90		-14.00	-2.00			8/10	4.46	-9.83		-4.77		-3.50	-4.83	-0.83	-6.00		-5.50		-3.50	-3.83	-0.20			
10-20	Change	-2.17	-2.50	-0.65	-0.03		-0.79	-4.50	-2.15	-1.00	1.00	-2.97	-1.82	-0.99	-2.00	-2.00	-1.10	-0.78	18/20	-1.98	-10.20		-5.61		-3.80	-7.50	-5.00	-7.00	-0.43	-5.00		-3.80	-1.60	-2.20	0.21		
10-90	Change	-1.88	3.00	-0.85	1.75	0.00	-9.00	0.50	0.97	4.00	0.00	0.66	-0.03	2.30	0.50	0.00	-0.75	-1.41	10/23	-0.50	-1.00	-1.20	-0.81		-1.90	-2.50	-1.00	-1.09	-0.85	-0.90		-0.50	-2.00	-1.61	0.73		-0.96
ML	Alt. 97		160.00		162.00			146.00		165.00	160.00		139.00		150.00	175.00			lls:	nge:	167.83		174.67		185.00	189.33	176.83	186.00		157.00		154.00	148.83	169.00			
ML	Alt. 02	157.92	158.50	154.75	158.43		133.09	140.00	139.85	159.00	156.00	157.47	142.72	157.09	138.00	175.00	154.85	159.18	Declines/Wells:	Average Change:	168.20		175.51		185.30	192.00	181.00	187.00	155.63	156.50		154.30	146.60	171.00	142.29		
M	Alt. 06	157.63	153.00	154.95	156.65	131.00	141.30	135.00	136.73	154.00	157.00	153.84	140.93	153.80	135.50	173.00	154.50	159.81	De	Ave	159.00	170.20	170.71		183.40	187.00	177.00	181.09	156.05	152.40		151.00	147.00	170.41	141.77		151.71
M	Alt. 07	155.75	156.00	154.10	158.40	131.00	132.30	135.50	137.70	158.00	157.00	154.50	140.90	156.10	136.00	173.00	153.75	158.40			158.00	169.00	169.90	183.10	181.50	184.50	176.00	180.00	155.20	151.50	162.45	150.50	145.00	168.80	142.50	153.30	150.75
07	meas.	22.25	19.00	23.90	11.60	79.00	77.70	52.50	53.30	30.00	19.00	9.50	48.10	19.90	39.00	15.00	46.25	33.60			27.00	16.00	15.10	16.90	18.50	20.50	34.00	50.00	18.80	28.50	22.55	26.50	20.00	10.20	20.50	21.70	20.25
Date	Measured	3/8/2007	4/9/2007	3/8/2007	3/8/2007	4/5/2007	3/8/2007	4/9/2007	3/8/2007	4/9/2007	4/9/2007	3/8/2007	2/27/2007	2/27/2007	4/9/2007	4/9/2007	2/27/2007	2/27/2007			4/2/2007	4/2/2007	3/27/2007	3/27/2007	4/2/2007	4/2/2007	4/2/2007	3/27/2007	3/27/2007	4/2/2007	3/27/2007	4/2/2007	4/3/2007	3/27/2007	3/27/2007	3/27/2007	3/27/2007
LSA		178.00	175.00	178.00	170.00	210.00	210.00	188.00	191.00	188.00	176.00		189.00	176.00	175.00	188.00		192.00			185.00	185.00		200.00	200.00	205.00	210.00	230.00	174.00	180.00	185.00	177.00	165.00	179.00	163.00	1.6	171.00
Longitude		910340.54	910632	910849.2	911456.1	912121	912316.73	910814	910912.46	911745	910408	911100.58	910722.83	911547.12	911004	911311	911149.73	911220.68			910058	910047	905434.06	904604	904511	904634	904846	904151	910058.18	905444	905347	905412	904653	904001.09	905129.93	904504	904710
Latitude		343610.94	343615	343617.76	343612.7	343626	343905.86	344624	344645.21	344455	343305	343208.97	345201.18	345026.65	345929	345957	345540.22	345535.05			343529	343725	343718.73	343809	343814	343741	343533	343802	342916.37	342901	342812	342824	342828	342931.57	342256.24	342706	342735
Station ID		01S01W13CDD1	01S01W16DB	01S01W18DCD1	01S02W20BBB1	01S03W20CCD1	01S04W01BAB1	02N01W19ADD1	02N01W19BBA1	02N03W35BCA1	02S01W01BCD1	02S02W11DAC1	03N01W20ABA1	03N03W36AAA1	04N02W01BCC1	04N02W05BBB1	04N02W27CDD3	04N02W28DDD3			01S01E20DDB1	01S02E09BDC1	01S02E09CBB1	01S03E02CBB1	01S03E02ADD1	01S03E10ABB1	01S03E20BDD1	01S04E05DCD1	02S01E28CCB1	02S02E29DDD1	02S02E33DCA1	02S02E33ACC1	02S03E34BCD1	02S04E27AAC1	03S02E35DDA1	03S03E02DD1	03S03E04DAA1
County		Monroe	Monroe	Monroe	Monroe	Monroe	Monroe	Monroe	Monroe	Monroe	Monroe	Monroe	Monroe	Monroe	Monroe	Monroe	Monroe	Monroe			Phillips	Phillips	Phillips														

20-26	Change	-0.55	-5.83		-2.33		0.00	-6.00		14/15	-3.83	-12.50	-12.26		-32.00	-13.50									-2.00			-10.30		-13.00		-11.00	-21.00				4.00	
02-07	Change		-2.00		-2.90	-1.25		-2.80		15/16	-3.81	-5.50	-6.02	-4.38	-26.00	-5.50	-4.89				-4.38				2.00			-4.70	-2.37	-5.00	-10.33	-5.00	-17.00	-3.35			1.00	
06-07	Change	-0.39	3.00		0.00	-1.30		0.60	Contraction of	15/19	-0.72	-0.50	-1.09	-0.21	-2.00	-2.50	-0.86	-0.50	-0.80	12.00	-0.37	-0.50	8.50	-1.50	3.00	10000	-1.50	-0.69	0.32	-0.50	-6.85	-0.50	-2.00	-0.57	-2.00	-1.00	00.00	2.00
ML	Alt. 97	160.00	142.83		142.33		141.00	154.00		ils:	nge:	149.00	149.76		178.00	154.00									199.00			161.00		153.00		147.00	150.00				197.00	
ML	Alt. 02		139.00		142.90	142.55		150.80		Declines/Wells:	Average Change:	142.00	143.52	154.18	172.00	146.00	137.79				148.38				195.00	5		155.40	143.97	145.00	136.93	141.00	146.00	141.00	200		192.00	
ML	Att. 06	159.84	134.00		140.00	142.60		147.40		Dec	Ave	137.00	138.59	150.01	148.00	143.00	133.76	132.50	136.62	128.00	144.37	139.50	122.50	143.50	194.00	100 10 100 100 100 100 100 100 100 100	186.50	151.39	141.28	140.50	133.45	136.50	131.00	138.22	138.00	195.00	193.00	201.00
ML	AH. 07	159.45	137.00	137.20	140.00	141.30	141.00	148.00				136.50	137.50	149.80	146.00	140.50	132.90	132.00	135.82	140.00	144.00	139.00	131.00	142.00	197.00	198.70	185.00	150.70	141.60	140.00	126.60	136.00	129.00	137.65	136.00	194.00	193.00	203.00
20	meas.	16.55	19.00	12.80	15.00	14.70	9.00	15.00				98.50	93.50	75.20	76.00	79.50	104.10	105.00	100.18	130.00	119.00	100.00	104.00	115.00	18.00	13.30	30.00	79.30	94.40	89.00	114.40	103.00	111.00	105.35	107.00	16.00	18.00	10.00
Date	Measured	3/27/2007	4/3/2007	3/27/2007	4/3/2007	3/27/2007	4/3/2007	4/3/2007				4/2/2007	3/26/2007	3/26/2007	4/18/2007	4/12/2007	3/26/2007	4/12/2007	3/26/2007	4/12/2007	3/26/2007	4/12/2007	4/12/2007	4/12/2007	4/12/2007	3/26/2007	4/13/2007	3/25/2007	3/25/2007	4/2/2007	3/26/2007	4/2/2007	4/12/2007	3/26/2007	4/2/2007	4/13/2007	4/12/2007	4/12/2007
LSA		176.00	156.00	150.00	155.00	156.00	150.00	163.00				235.00	231.00	225.00	222.00	220.00	237.00	237.00	236.00	270.00	263.00	239.00	235.00	257.00	215.00	212.00	215.00	230.00	236.00	229.00	241.00	239.00	240.00	243.00	243.00	210.00	211.00	213.00
Longitude		903918	905700	905748	905837	905852.62	910148	905053				905654	905813.38	910005.35	910053	905931	905026.29	905026	905231	904352	904404.93	904021	904810	904449	903831	902501	902128	910013.21	905653.32	905759	905034.19	905540	905222	904456.54	904713	903631	903654	903155
Latitude		342732	342238	342128	342014	341931.3	341844	342220				353205	352909.77	352921.87	352657	352746	352948.52	352939	352726	353001	352947.21	352906	352405	352817	352745	353045	352743	353436.83	353340.33	353256	353350.31	353352	353238	353545.69	353534	353447	353251	353318
Station ID		03S04E02CAA1	04S01E01AAD1	04S01E12CAB1	04S01E14CDD1	04S01E23CCA1	04S01E29CBC1	04S02E01DBB1				10N01E02AAA	10N01E14CC1	10N01E16CCB1	10N01E32CBB1	10N01E33ACB1	10N02E13BCC1	10N02E15CAA1	10N02E33AAA1	10N03E13BCB1	10N03E14DAB1	10N03E19BCB1	10N03E20BBA1	10N03E26BBD1	10N04E35BBA1	10N06E11AAA1	10N07E28CBB1	11N01E17DDD1	11N01E26AA1	11N01E34AAA	11N02E26AAB1	11N02E30BBB1	11N02E34CBA1	11N03E10DDA1	11N03E17AAA1	11N04E13DDA1	11N04E36ABA1	11N05E26BDB1
County		Phillips				Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett						

10-16	Change				-12.00	-10.50	-6.00		-11.50	-8.00	-12.00			-9.00	-7.50	-3.72		-4.00			20/20	-10.79					-4.70												
10-20	Change	0.34			-8.30	-4.00	-6.00		-4.50	-4.00	-5.19		-8.74	-4.00	-1.50	0.30	-2.86				24/28	-5.35		-2.45	7.11		-0.50	-14.83	-18.26		0.25	-1.52	-1.77	1.00			-6.61		-3.42
00-01	Change	1.37		-3.50	-6.83	-2.00	-2.00	-0.60	-1.00	-2.00	-2.48	-1.00	-5.83	-2.00	0.50	1.45	-0.17	-1.00	0.80	-0.85	34/44	-0.63		-0.80	1.08	-1.45		-0.72	-10.00	0.00	-0.13	-0.88	-0.98	6.54	-1.05	1.00	-4.66	-14.90	-1.34
AVL	Alt. 97				187.20	169.50	137.00		143.00	163.00	153.00			169.00	217.00	209.52		221.00			lls:	:eGu					110.70												
MAL	Alt. 02	202.66			183.50	163.00	137.00		136.00	159.00	146.19		154.34	164.00	211.00	205.50	218.76				Declines/Wells:	Average Change:		103.85	148.19		106.50	121.83	110.66		167.35	136.92	132.60	146.80			111.11		112.82
NAL.	All. 06	201.63		198.00	182.03	161.00	133.00	135.75	132.50	157.00	143.48	142.00	151.43	162.00	209.00	204.35	216.07	218.00	208.58	197.78	Dec	Avei		102.20	154.22	106.45		107.72	102.40	108.64	167.73	136.28	131.81	141.26	116.85	134.30	109.16	95.10	110.74
AVL -	Alt 07	203.00	194.15	194.50	175.20	159.00	131.00	135.15	131.50	155.00	141.00	141.00	145.60	160.00	209.50	205.80	215.90	217.00	209.38	196.93				101.40	155.30	105.00	106.00	107.00	92.40	108.64	167.60	135.40	130.83	147.80	115.80	135.30	104.50	80.20	109.40
10	meas.	14.00	23.85	23.50	60.80	76.00	114.00	109.85	113.50	95.00	106.00	104.00	104.40	90.00	11.50	9.20	7.10	11.00	16.62	14.07				118.60	62.70	118.00	100.001	98.00	113.60	119.36	20.40	85.60	90.17	75.20	109.20	89.70	123.50	144.80	125.60
Date	Measured	3/26/2007	3/26/2007	4/13/2007	3/25/2007	4/2/2007	4/2/2007	3/25/2007	4/2/2007	4/12/2007	4/12/2007	4/12/2007	3/26/2007	4/12/2007	4/12/2007	3/26/2007	3/26/2007	4/13/2007	3/26/2007	3/26/2007				3/7/2007	3/7/2007	3/7/2007	4/17/2007	3/7/2007	3/7/2007	3/7/2007	3/8/2007	3/7/2007	3/8/2007	3/7/2007	3/8/2007	3/8/2007	3/7/2007	3/7/2007	3/8/2007
LSA		217.00	218.00	218.00	236.00	235.00	245.00	245.00	245.00	250.00	247.00	245.00	250.00	250.00	221.00	215.00	223.00	228.00	226.00	211.00				220.00	218.00	223.00	206.00	205.00	206.00	228.00	188.00	221.00	221.00	223.00	225.00	225.00	228.00	225.00	235.00
Longitude		902320	901922	902125	910141.25	905809	904944	905024	905230	904329	904600.16	904355	904318	904112	903333	903230.45	902059.69	902022	901802	902646			and the second	914049.08	913707.61	913951.46	912650	912629.73	913431	913613	912418.61	912737.79	913420.77	912854.34	913300	912937	913308	913305	913959.44
Lattude		353435	353349	353250	354053.69	353922	353820	353831	353724	354154	354158.01	353735	353749	354053	354039	353805.38	354201.95	354042	353740	353224				344352.97	344014.88	344017.54	343529	343522.68	343416	343826	344916.31	344436.43	344957.63	344805.45	344649	344659	344544	344534	344809.48
Station ID		11N07E18CAB1	11N07E22ADD1	11N07E28CBB1	12N01E07CDA1	12N01E22DAB1	12N02E25DCC1	12N02E26DDA1	12N02E34CCC1	12N03E01CBD1	12N03E04DAD1	12N03E35DDA1	12N03E36ACB1	12N04E08CDA	12N05E16ABA1	12N05E34ABA1	12N07E04BAA1	12N07E10BCC1	12N07E25DC1	11N06E34AB1				01N06W05CCB1	01N06W26CDD1	01N06W29DDD1	01S04W28BBC1	01S04W28BDB1	01S05W31DDA1	01S06W12BAB1	02N04W02BCB1	02N04W32CCB1	02N05W06BAB1	02N05W13AAB1	02N05W21CB1	02N05W24ACB	02N05W29DDB2	02N05W32AAA1	02N06W17ABB1
County		Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett	Poinsett				Prairie	Prairie	Prairie	Prairie	Prairie	Prairie																					

20-28	Change													-0.50	-11.80	1	3/3	-5.67								000	-9.80			-2.40		-8.90	3.70		-7.20	-11.90
02-07	Change	1.05			3.37	-0.68	-0.81	-0.37	1.52	-4.87	-0.48	-1.77	-3.12	2.10	-15.00		16/23	-2.05	0.08		3.67	1.63		0/3	1.79	-	-2.10	0.70	-0.77	4.90		-3.40	1.50	-1.76		-17.10
06-07	Change	-0.31	0.10	-0.50	5.75	2.90	0.88	2.63	3.73	-2.66		-0.37	-0.43	5.72			16/27	-0.40	0.97		2.60	6.92		0/3	3.50		200	00.7	0.78			3.50	11.50	-0.63	-3.50	-7.27
ML	Alt. 97													171.60	165.30		lls:	:ebu						lls:	nge:		257.30			254.90		254.40	239.30		242.70	259.40
ML	Alt. 02	125.35			161.08	142.88	138.61	137.27	170.48	137.67	144.98	169.07	164.92	169.00	168.50		Declines/Wells:	Average Change:	221.87		199.03	208.78		Declines/Wells:	Average Change:		249.60	249.30	249.37	247.60		248.90	241.50	236.66		264.60
M	Alt. 06	126.71	108.80	114.90	158.70	139.30	136.92	134.27	168.27	135.46		167.67	162.23	165.38			De	Ave	220.98		200.10	203.49		De	Ave		010.00	243.00	247.82			242.00	231.50	235.53	239.00	254.77
ML	Alt 07	126.40	108.90	114.40	164.45	142.20	137.80	136.90	172.00	132.80	144.50	167.30	161.80	171.10	153.50				221.95	215.20	202.70	210.41	213.76				247,50	00.062	248.60	252.50	256.00	245.50	243.00	234.90	235.50	247.50
07	meas.	74.60	116.10	118.60	22.55	64.80	78.20	84.10	23.00	79.20	61.50	87.70	96.20	33.90	37.50				17.05	23.80	22.30	20.35	23.00				17.50	10.00	17.40	27.50	17.00	19.50	31.00	38.10	34.50	18.5
Date	Measured	3/7/2007	3/7/2007	3/8/2007	3/7/2007	3/8/2007	3/8/2007	3/8/2007	3/7/2007	3/7/2007	3/7/2007	3/7/2007	3/7/2007	3/7/2007	4/17/2007				3/27/2007	4/3/2007	3/27/2007	3/27/2007	4/3/2007				5/1/2007	1002/14	5/1/2007	5/1/2007	5/1/2007	5/1/2007	5/1/2007	3/21/2007	5/1/2007	5/1/2007
LSA		201.00	225.00	233.00	187.00	207.00	216.00	221.00	195.00	212.00	206.00	255.00	258.00	205.00	191.00				239.00	239.00	225.00	230.76	236.76				265.00	265.00	266.00	280.00	273.00	265.00	274.00	273.00	270.00	266.00
Longitude		913728.62	913827	913551	912424.37	913115.35	913601.39	914110	912733.07	913440.92	914017.96	914412.48	914544.88	913034.06	913228				920707.66	920635	920333.75	920549.36	921022				905551	905820	905729.13	905043	905458.36	905356	905332	905104.7	905150	905157
Latitude		343213.38	344653	344651	345439.23	345444.06	345454.54	345207	345850.31	345042.62	345933.76	345942.1	345700.53	350252.43	350119				343537.78	344953	343204.71	343216.99	343150				361230	361040	360942.69	361336	361400.42	361204	361125	361045.76	360933	361826
Station ID		02S06W14BBB1	02N06W21DAA1	02N06W24CAA1	03N04W03AAC1	03N05W03BDD2	03N06W01BCB1	03N06W19BDD1	04N04W07ADC1	04N05W07CDC1	04N06W05CCC1	04N07W03DCB1	04N07W28BBA1	05N05W14DCD1	05N05W28DDA1				01S10W29CC1	02N10W05BCC1	02S10W14DC1	02S10W16CCA1	02S11W23BCB1				18N01E13BBA1	18N01E28AAD1	18N01E34AAC1	18N02E03DAD1	18N02E06BCB1	18N02E17CBB1	18N02E20BDA1	18N02E22DCD1	18N02E34BAB1	19N02E09ABD1
County		Prairie				Pulaski	Pulaski	Pulaski	Pulaski	Pulaski				Randolph																						

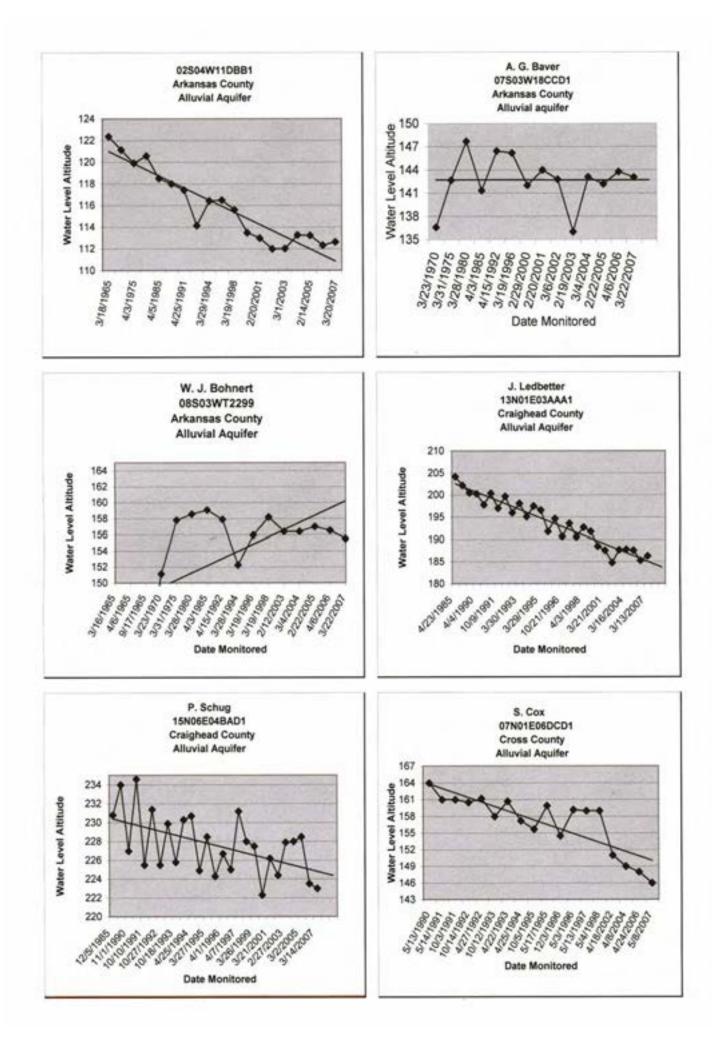
20-78	Change		-11.90			-7.60	2.30				6/1	-5.97			-3.00				-9.40																	-6.04		-8,56	
02-07	Change		-15.70			-7.20	-1.60	-4.80	1.05		9/13	-3.56			-3.00				-4.10	-2.54		-2.00	-4.92	-3.00		-5.06		-5.17		-2.13		10.68		1.87	-2.00	-0.05		-2.68	-8.39
06-07	Change		-0.50		8.00	0.50	3.50	1.00	2.16	- Andrew	4/13	2.00		-0.74	-1.00				-0.68			-10.00	-0.84	-1.00		0.79		-1.87		-0.91	The second	10.00		0.41	-1.00	-0.41	-2.00	0.04	-7.65
M	Ah. 97		261.90			277.10	261.20				Is:	:eGu			143.00				145.30																	177.94		152.46	
ML	Alt. 02		265.70			276.70	265.10	263.80	264.25	1000	Declines/Wells:	Average Change:			143.00			a transmission	140.00	167.74		160.00	152.92	165.00		147.66		145.37		157.43		145.45		168.77	168.00	171.95		146.58	157.89
M	All. 08		250.50		259.00	269.00	260.00	258.00	263.14		De	Aver		148.92	141.00				136.58			168.00	148.84	163.00		141.81		142.07		156.21	and the second se	146.13		170.23	167.00	172.31	140.00	143.86	157.15
ML	Att. 07	259.00	250.00	261.00	267.00	269.50	263.50	259.00	265.30					148.18	140.00	130.00	137.00	128.00	135.90	165.20	305.00	158.00	148.00	162.00	154.00	142.60	138.00	140.20	156.00	155.30	164.00	156.13	251.00	170.64	166.00	171.90	138.00	143.90	149.50
20	meas.	8.00	16.00	24.00	14.00	11.50	10.50	11.00	10.70					59.82	60.00	70.00	63.00	72.00	72.10	44.80	45.00	51.00	61.00	49.00	58.00	66.40	70.00	68.80	63.00	55.70	51.00	93.87	49.00	32.36	30.00	28.10	73.00	67.10	81.50
Date	Measured	4/4/2007	5/1/2007	5/1/2007	5/1/2007	5/1/2007	5/1/2007	5/1/2007	4/4/2007					4/3/2007	5/10/2007	5/10/2007	5/10/2007	5/10/2007	4/3/2007	4/5/2007	5/10/2007	5/10/2007	4/4/2007	5/10/2007	5/10/2007	4/4/2007	5/10/2007	4/4/2007	5/10/2007	4/4/2007	5/10/2007	4/4/2007	5/10/2007	4/4/2007	5/10/2007	4/4/2007	5/10/2007	4/4/2007	4/4/2007
LSA		267.00	266.00	285.00	281.00	281.00		270.00	276.00		ſ			208.00	200.00	200.00	200.00	200.00	208.00	210.00	350.00	209.00	209.00	211.00	212.00	209.00	208.00	209.00	219.00				300.00	203.00		200.00		211.00	
Longitude		905158	905049	904552	905339	904848	904930	905107	904537.97				7	910801	910759	910707.4	910554.36	910545.23	910633.55	905218	904456.62	905341	905633	905220	905435.04	905942.41	905932.26	905928.78	905314.99	905437.16	905208.56	904800.83	904828.73	903629	903506	902656.87	910156	905941.6	905002.71
Latitude		361759	361622	361941	362410	362352	362232	362117	362113.53					345735	345716	345646.5	345719.7	345609.71	345535.26	345848	345827.58	345733	345701	345604	345556.38	350302.57	350758.91	350135.73	350442.08	350156.9	350034.88	350214.31	350610.48	350128	350004	350025.57	350446	350552.33	350812.64
Station ID		19N02E09DCA1	19N02E22DAB1	19N03E33CCB1	20N02E06DAD1	20N02E12BAA1	20N02E14DAB1	20N02E21CDD1	20N03E28BA1					04N01W17CBC1	04N01W20BBB1	04N01W20DA1	04N01W22BB1	04N01E27BC1	04N01W28CDD1	04N02E03DDD3	04N02E11AD1	04N02E16ACD1	04N02E19BBB1	04N02E27AAA1	04N02E29BB1	05N01E15BCB1	05N01E21AA1	05N01E27BBA1	05N02E04DA1	05N02E20ADC1	05N02E26CC1	05N03E20AAB2	05N03E32BA1	05N05E19DCA1	05N05E33BCC1	05N06E34CAB1	05N01E06DA1	06N01E33ACA2	06N02E13DCA1
County		Randolph	Randolph					St. Francis	St. Francis		St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis	St. Francis						

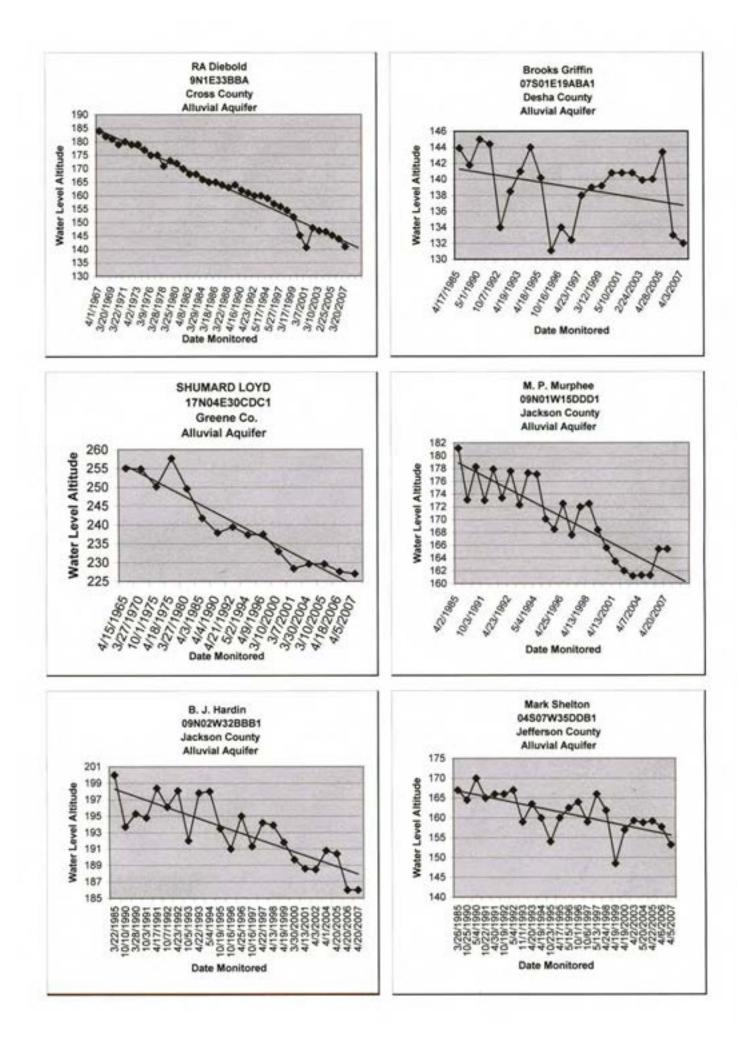
97-07	Change		-10.90					5/5	-7.58	10.35						5.60	-2.30		9.60										1/4	5.81		-12.70	-7.10	-4.30	
02-07	Change	-9.07		-3.74			-2.30	16/18	-2.64	4.00	-1.62				3.22	3.20	2.00	2.40	3.30	-1.39	1.24	-2.00	-3.93	9.60	10.50	-0.34	-0.08	-2.00	7/16	1.76	-1.27	-6.20	-2.30	-0.20	
06-07	Change	-1.15		-2.54	a start -	4.00	0.45	15/20	-1.21	-0.78	-0.29	-1.30	-1.90	-7.90	0.72	3.00	0.80	1.53	2.10	-0.62	3.00	3.40	-2.08	12.12	9.90	4.54	4.40	1.57	7/19	1.70	1.21	-3.20	-0.50	-0.20	
M	All. 97		152.90					lis:	:ebu	179.55						171.60	168.80		182.20										ils:	nge:		144.90	157.50	181.40	
ML	Alt 02	162.41		161.74			166.00	Declines/Wells:	Average Change:	185.90	195.32				182.03	174.00	164.50	191.00	188.50	153.14	203.06	219.80	217.38	190.00	177.00	185.94	197.98	198.40	Declines/Wells:	Average Change:	172.87	138.40	152.70	177.30	
ML	Alt. 06	154.49		160.54		166.00	163.25	Dec	Ave	190.68	193.99	199.50	197.10	181.50	184.53	174.20	165.70	191.87	189.70	152.37	201.30	214.40	215.53	187.48	177.60	181.06	193.50	194.83	De	Ave	170.39	135.40	150.90	177.30	
ML	Alt. 07	153.34	142.00	158.00	160.90	162.00	163.70			189.90	193.70	198.20	195.20	173.60	185.25	177.20	166.50	193.40	191.80	151.75	204.30	217.80	213.45	199.60	187.50	185.60	197.90	196.40			171.60	132.20	150.40	177.10	176.75
20	meas.	61.30	68.00	74.00	39.10	38.00	36.30			15.10	9.30	31.80	22.80	43.40	34.75	37.80	46.50	16.60	18.20	61.25	12.70	10.20	16.55	5.40	12.50	28.10	16.10	2.60			13.40	77.80	59.60	12.90	10.25
Date	Measured	4/4/2007	5/10/2007	4/4/2007	4/27/2007	5/10/2007	4/4/2007			2/22/2007	2/22/2007	2/22/2007	3/6/2007	2/22/2007	2/22/2007	3/22/2007	3/22/2007	2/22/2007	3/22/2007	2/22/2007	2/22/2007	2/22/2007	3/6/2007	2/22/2007	2/22/2007	2/22/2007	2/22/2007	2/22/2007			2/27/2007	3/15/2007	4/19/2007	4/30/2007	2/27/2007
LSA		214.64		232.00	200.00	200.00	200.00			205.00	203.00	230.00	218.00	217.00	220.00	215.00	213.00	210.00	210.00	213.00	217.00	228.00		205.00	200.00		214.00	199.00			185.00	210.00	210.00	190.00	187.00
Longitude		905247.31	905403	905002.42	903102	902853	902841.2			914441.48	914436	915151	915139	913839	913909.91	913903	913552	914151.92	914150	913753.55	914634.73	914824.37	914931	912858	913003	913406.19	912846.51	913416.96			911819.87	910331	910900	911531	911735
Latitude		350841.91	350824	350755.19	350654	350812	350747.06			350446.87	350400.22	350346	350301	351037	351047.21	351037	350918	350851.33	350835	350623.57	350822.47	350907.73	350639	351552	351224	351136.63	352028.21	351615.66			350020.93	350244	350106	350133	350021
Station ID		06N02E15BDD1	06N02E16CC1	06N02E24AAA1	06N05E27BDD1	06N06E17DD1	06N06E20ABB2			05N07W09AAA1	05N07W10CCC1	05N08W16BD1	05N08W21DB1	06N06W04AAD1	06N06W04BAA1	06N06W04BAD1	06N06W13DBB1	06N06W18BBC1	06N06W18BCA1	06N06W34AAB1	06N07W17DCC1	06N08W13ABA1	06N08W26DDB1	07N05W01AAA1	07N05W26AAA1	07N05W32BAB1	08N04W06CCB1	08N05W32CBC1			04N03W03AB1	05N01W13CDC1	05N01W31CCC1	05N03W25DDB1	05N03W35CC2
County		St. Francis		St. Francis	St. Francis	St. Francis	St. Francis			White	White	White	White	White	White	White	White	White	White	White	White	White	White	White	White	White	White	White			Woodruff	Woodruff	Woodruff	Woodruff	Woodruff

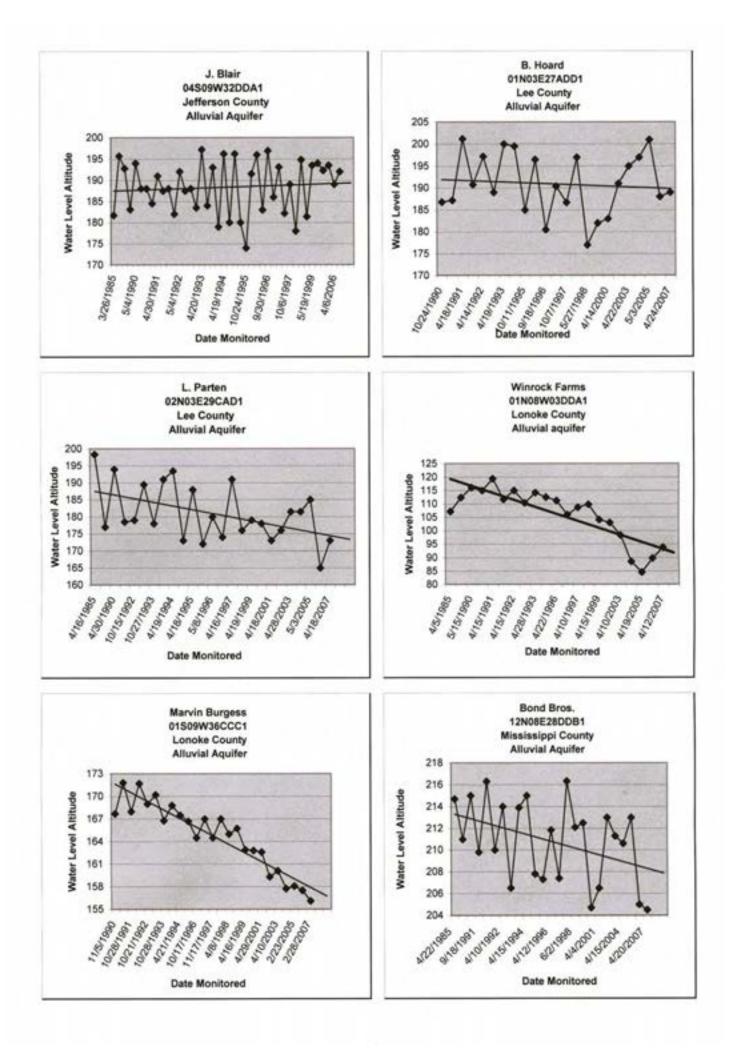
87-07	Change.				-2.90				-9.90	-5.00		0.50		-4.60	0.63							6/2	-5.04	-7.46	224/289	77.5%
02-07	Change			-1.30	1.10		-0.22	-2.72	-2.90	1.65	-0.25	4.00	-4.40	-0.40	-1.29		1.29		-1.28	-1.30		14/18	-1.00	-2.40	383/516	74.2%
08-07	Change	-1.80	-1.80		0.10	0.05	2.03	-0.84	-2.00	0.90	0.95	6.50	-1.73	-0.40	0.22	-0.30	-1.05		-0.17	1.30		12/21	-0.03	-0.44	407/620	65.6%
ML	Alt. 97				182.50				172.00	192.50		184.10		190.20	190.12							IIS:	:ebu	hange:	Wells:	
W	Alt. 02			147.60	178.50		184.41	184.02	165.00	185.85	190.84	180.60	176.10	186.00	192.04		187.71		198.58	198.00		Declines/Wells:	Average Change:	Total Average Change:	Total Declines/Wells:	
ML	Alt 06	154.20	153.70		179.50	178.95	182.16	182.14	164.10	186.60	189.64	178.10	173.43	186.00	190.53	202.00	190.05		197.47	195.40	- 24-	Dec	Aver	Total A	Total [	
M	Att. 07	152.40	151.90	146.30	179.60	179.00	184.19	181.30	162.10	187.50	190.59	184.60	171.70	185.60	190.75	201.70	189.00	199.50	197.30	196.70						
07	meas.	67.60	63.10	69.70	45.40	6.00	4,60	3.70	62.90	23.50	12.00	5.40	46.30	27.40	3.80	19.30	23.00	20.50	22.70	20.30						
Date	Measured	4/30/2007	3/15/2007	3/15/2007	4/30/2007	3/15/2007	3/15/2007	3/15/2007	4/30/2007	3/21/2007	3/15/2007	4/30/2007	2/23/2007	4/30/2007	2/23/2007	2/23/2007	3/15/2007	4/30/2007	2/23/2007	4/30/2007						
LSA		220.00	215.00	216.00	225.00	185.00	188.79	185.00		211.00	202.59		218.00	213.00	194.55	221.00	212.00	220.00	220.00	217.00						
Longitude		910542	910354	910559	911419	911607	911807.41	912144	910626	912109	912025.42	912103	910747	911107	911411	911919	912028	911841.57	911921	911936						
Latitude		350910	350944	350600	350802	350955	350903.06	350623	351541	351607	351335	351152	352028	351711	351611	352128	351655	352326.13	352258	352205						
Station ID		06N01W10BC1	06N01W11AAB1	06N01W33ADB2	06N02W19AAA1	06N03W12BAA1	06N03W15BAB1	06N03W31BCB1	07N01W04ACB1	07N03W06BAC1	07N03W19AAA1	07N03W31BBA1	08N01W06DDD1	08N02W27DDB1	08N02W31DDD1	08N03W04BBB1	08N03W31AAD1	09N03W21DBD1	09N03W29AAD1	09N03W32ACA1						
County		Woodruff	Woodruff	Woodruff	Woodruff	Woodruff	Woodruff	Woodruff	Woodruff	Woodruff	Woodruff	Woodruff	Woodruff	Woodruff	Woodruff	Woodruff	Woodruff	Woodruff	Woodruff	Woodruff						

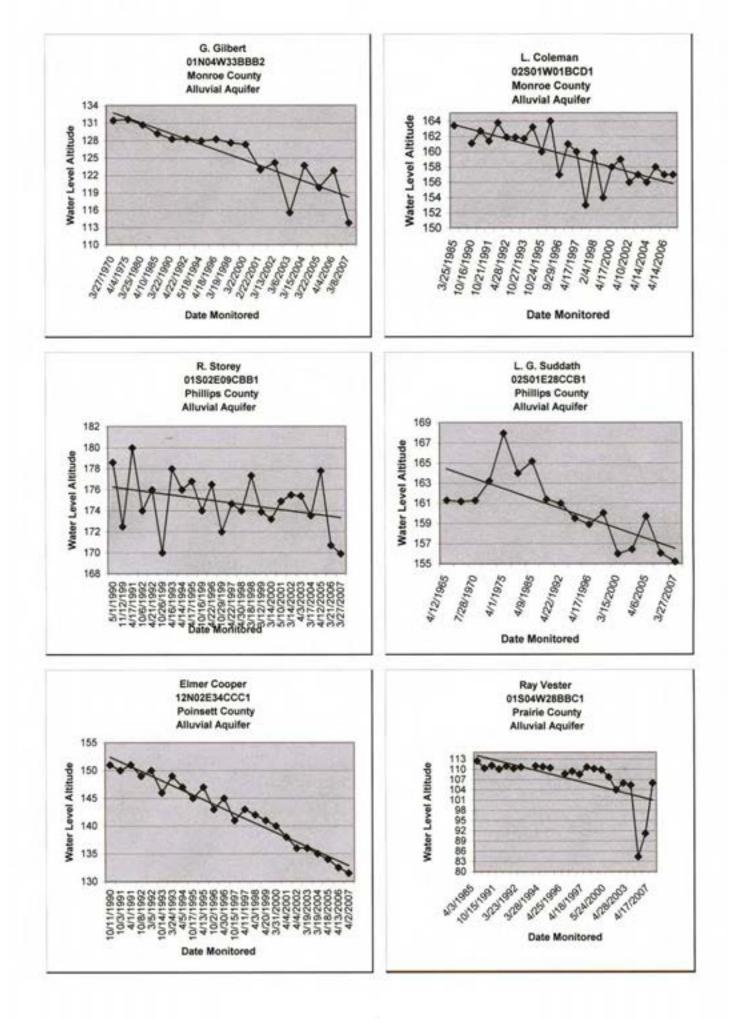
<u>Appendix B</u>

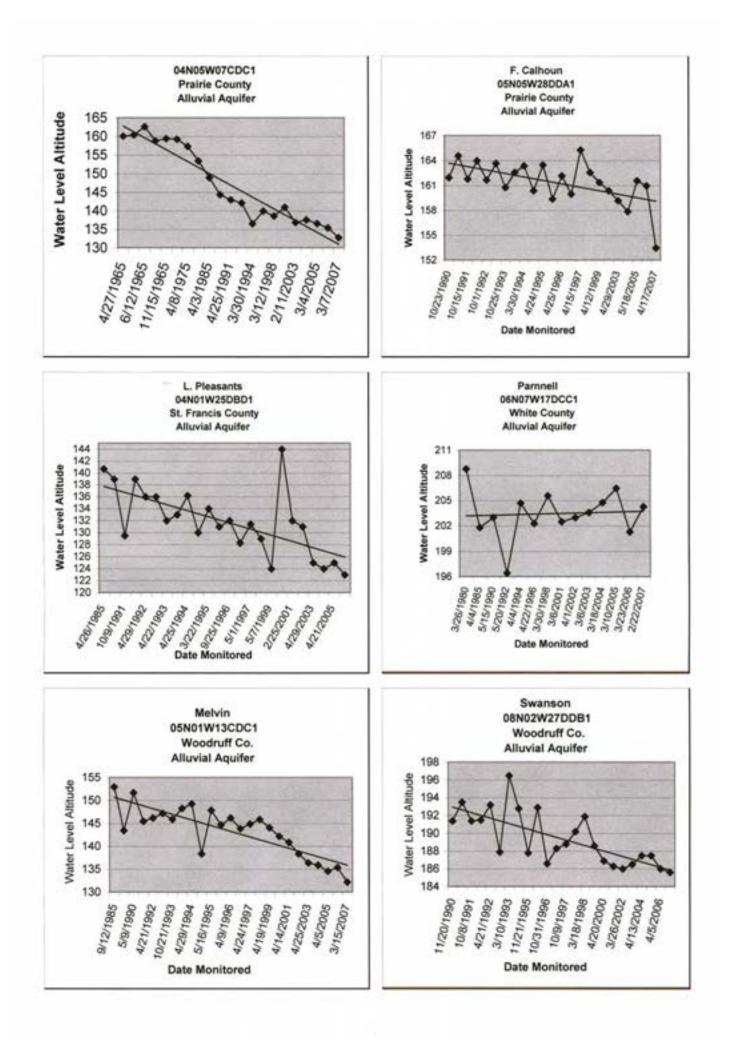
Selected Alluvial Aquifer Well Hydrographs











Appendix C

Sparta/Memphis Aquifer Water Level Monitoring Data

#### Sparta Aquifer 97-02-06-07 WL Change

97-07	Change	-10.90	-20.82	-21.50		-12.25				-12.43	-2.00	-28.74	-12.42	-16.89		-13.63		-10.86		-11.52	-16.10	-21.40					-18.06		-16.33	-17.09		-18.25	-8.41			-12.94	-19.30
02-07	Change	7.96	10.09	-0.28	5.95	0.71	6.77	7.01		6.10	21.68		4.99	0.88		19.60	3.38	0.18	-2.08	4.90		1.02	12.35	4.50	4.65		11.45		61.7	5.94	0.76	0.76	5.03	-0.41	-0.08	0.78	-0.98
06-07	Change	0.96	3.59	-11.08	0.85	-0.74	-1.93	-1.49	-0.10	-1.90		0.48	-5.86	-7.62		4.60	-2.61	-2.22	-0.78	-2.70		-4,98	16.65	-1.70	-1.70		-6.20	-1.66	-4.41	-1.06	-0.59	-3.24	2.33	-2.41	-2.18	-1.22	-1.18
WL ALT	1997	63.66	83.91	57.72		49,46				61.03	57.48	65.42	39.41	43.67		47.23		94.34		54.42	47.52	56.92					47.91		64.02	65.03		53.01	74.24			74.02	94.22
WL ALT	2002	44.80	53.00	36.50	34.10	36.50	29.10	34.10		42.50	33.80		22.00	25.90		14.00	79.20	83.30	110.60	38.00		34.50	26.80	22.10	28.80		18.40		39.90	42.00	149.20	34.00	60.80	73.30	73.90	60.30	75.90
WL ALT	2006	51.80	59,50	47.30	39.20	37.95	37.80	42,60	51.80	50.50		36.20	32.85	34.40	100 miles	29.00	85.19	85.70	109.30	45.60		40.50	22.50	28.30	35.15		36.05	84.20	52.10	49.00	150.55	38.00	63.50	75.30	76.00	62.30	76.10
WLALT	2007	52.76	63.09	36.22	40.05	37.21	35.87	41.11	51.70	48.60	55.48	36.68	26.99	26.78	31.14	33.60	82.58	83.48	108.52	42.90	31.42	35,52	39.15	26.60	33.45	150.20	29.85	82.54	47.69	47.94	149.96	34.76	65.83	72.89	73.82	61.08	74.92
07 WL	Meas	159.24	144.91	168.78	172.95	178.79	180.13	174.89	144.30	153.40	147.52	173.32	183.01	179.22	172.86	157.40	113.42	106.52	66.48	155.10	163.58	159.48	156.85	159.40	167.55	33.80	166.15	93.46	140.31	140.06	38.04	145.24	115.17	115.11	112.18	119.92	106.08
ML	Date	3/29/2007	3/29/2007	3/29/2007	3/29/2007	3/29/2007	3/29/2007	3/29/2007	3/20/2007	3/29/2007	3/27/2007	3/29/2007	3/28/2007	3/28/2007	3/28/2007	3/28/2007	3/27/2007	3/27/2007	3/27/2007	3/27/2007	3/28/2007	3/27/2007	3/28/2007	3/26/2007	3/28/2007	3/26/2007	3/26/2007	3/27/2007	3/27/2007	3/26/2007	3/26/2007	3/26/2007	3/27/2007	3/27/2007	3/27/2007	3/27/2007	3/27/2007
LS0	Alt	212.00	208.00	205.00	213.00	216.00	216.00	216.00	196.00	202.00	203.00	210.00	210.00	206.00	204.00	191.00	196.00	190.00	175.00	198.00	195.00	195.00	196.00	186.00	201.00	184.00	196.00	176.00	188.00	188.00	188.00	180.00	181.00	188.00	186.00	181.00	181.00
	Longitude	912849.29	912354.53	912702.68	913318	913230.47	913148.02	913035.31	912251	912458.04	912438.3	913033.71	913004.57	913229.33	913240.25	914216.15	910808.42	910739	911331	912501.52	912928.89	912515.15	912956.46	913412.84	913133.29	913448.06	913003.63	910745.34	912007.11	912435	913119	912946	911620.01	911453.14	911331.06	912008.98	911411.01
	Latitude	343311.54	343044.22	342922.14	343143	343028.45	342924.58	342929.98	342553	342747.58	342421.03	342842.19	342631.15	342633.21	342447.16	342515.54	342225.42	341929	342123	342156.96	342003.73	342006.89	342322 23	342302.67	342132.16	341819.25	341752.00	341550.68	341734.14	341358	341324	341247	341227.90	341022.67	340904	340859.22	340339.67
	Station	02S04W06CDB1	02S04W23DAA1	02S04W33BBB1	02S05W16CBB1	02S05W27BBB1	02S05W34BDA1	02S05W35AAB1	03S03W18CCC1	03S04W02CCB1	03S04W26CDA1	03S05W02AAB1	03S05W13BDC1	03S05W15CBB1	03S05W28DAB1	03S06W30BBD1	04S01W04CBD1	04S01W28BAA1	04S02W09DDC	04S04W11BCC1	04S04W19CBB1	04S04W22DAA1	04S05W01BAA1	04S05W05ACC1	04S05W15AAA1	04S05W31DDA1	04S05W36DCC1	05S01W17BAA1	05S03W04ADB1	05S04W26ACA1	05S05W26CDD1	05S05W36DAA	06S02W06ABB1	06S02W17ADA1	06S02W22CDB1	06S03W27BAA1	07S02W28ABA1
	County	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas																

ge Change				22/22	-15.36	Н	5 5.03				-6.53	-7.46	2/2		3.43	3 -22.02			-1.38			2/3	6.66				7 -15.47	-	-7.04	
02-07 Change	1.12	-0.92		6/32	4.74		-14.05		CC +	1.46			1/1		8.00	-20.53			0.60	19.18	-9.47	2/5	-0.44				-14.57	-0.42		
06-07 Change	-3.98	-0.72		27/34	-1.38		-9.55	2.71	10.87	10'61-	-11.02	-0.82	3/3	-10.57	-7.78	-9.08		2.40	5.44	-0.22	0.53	3/6	-1.45	1.40			-8.07	-0.15	-0.42	
WL ALT	70.86			IS:	ge:		36.72				54.31	28.44	IS:	:eBe	171.57	35.19			34.78				:e6				38.50	77.30	62.92	
WL ALT 2002	53.60	74.00	100 Mar 100 Mar	Declines/Wells:	Average Change:		55.80		27 EA	00.10			Declines/Wells:	Average Change:	167.00	33.70			32.80	71.40	-16.00	Declines/Wells:	Average Change:				37.60	70.80		
WL ALT 2006	58.70	73.80		De	Ave		51.30	79.70	60 4 E	00.100	58.80	21.80	De	Ave	182.78	22.25		29.80	27.96	90.80	-26.00	a	Ave	63.50			31.10	70.53	56.30	
WL ALT 2007	54.72	73.08					41.75	82.41	00.00	-818	47.78	20.98			175.00	13.17	34.41	32.20	33.40	90.58	-25.47			64.90	63.89	57.80	23.03	70.38	55.88	
07 WL Meas	130.28	100.92					148.25	17.59	104 70	27.951	202 22	79.02			138.00	194.83	167.59	156.80	171.60	24.42	127.47			70.10	65.11	223.20	206.97	162.62	164.12	
WL Date	3/26/2007	3/27/2007					3/20/2007	3/20/2007	TUNCIONS	TUNAIRI IS	3/19/2007	3/19/2007			3/29/2007	3/16/2007	3/20/2007	3/20/2007	3/20/2007	3/20/2007	1/29/2007			3/19/2007	3/20/2007	3/21/2007	3/21/2007	3/21/2007	3/21/2007	
LSD	185.00	174.00		Γ			190.00	100.00	101 100	212.00	250.00	100.00			313.00	208.00	202.00	189.00	205.00	115.00	102.00			135.00	129.00	281.00	230.00	233.00	220.00	
Longitude	912247.68	911447.66					915101.06	920116.44	10 111000	12.9444.41 020437.48	921607 25	922052			922928.17	922741.66	922551.43	922801.55	922403.54	922606.59	922821			912307.62	912723.3	920236.95	921133.93	921250.52	920020.5	
Latitude	340701.89	340031.06					332117.77	331333.66	10 112000	933111.24	333453.65	331839			334630.25	333226.81	333145.32	333206.66	333040.05	332410.97	332230			333312.37	332444.7	335820.09	335729.02	335622.66	334917.94	
Station	07S03W06ABC1	08S02W09BCC1					15S07W32CDD1	17S09W15ACC1		12509W3100B1	13S11W17RCD1	16S12W21CAA1			11S14W12CAC3	13S13W32CDA1	14S13W03CAB1	14S13W05BBD1	14S13W12CCB1	15S13W20BDC1	15S13W32BBD1			13S03W22DAD1	15S03W07BCC1	09S09W04BBD1	09S11W01DCA1	09S11W11CDB1	10S09W23CDC1	
County	Arkansas	Arkansas					Ashley	Ashley		Bradley	Bradiav	Bradley			Calhoun			Chicot	Chicot	Cleveland	Cleveland	Cleveland	Cleveland							

97-07	Change	4.24	7.78	4/5	-5.18		-2.42	-46.11			-12.01	10.13		30.98		1.90	1.96	-5.27	7.42	42.22	31.50	24.41		-87.13	1.11	2.73	9.58	-123.55				-2.60		9.50		0.31				]
02-07	Change			2/2			4.16				-3.59	-17.93		13.30	0.000	3.43	5.00	-10.56	4.84	-25.15	10.80	8.69		4.39	-3.04	0.03	15.80	-44.34	4.30	-66.28	2.67	2.98	15.00	7.61		-0.87	-0.92	-3.18		
20-90	Change		-0.11	4/5	2.65		0.41	8.27	6.38		-8.59	-28.13	11.75	26.64	1.000	-0.17	12.60	-14.38		-19.18	2.40	13.72		13.67	-0.34	1.76	13.40	0.62	4.51		-0.70		10.78		-0.78	0.13	3.34	-2.41		6.26
WL ALT	1997	103.98	90.91	5:	:e6		158.08	128.78			209.22	39.14	1000	11.12		30.03	-0.76	16.41	34.92	-21.37	149.90	2.48		197.12	157.45	179.90	180.32	104.71				71.38		107.81		194.62				
WLALT	2002			Declines/Wells:	Average Change		151.50				200.80	67.20	1	28.80	No. of the second se	28.50	-3.80	21.70	37.50	46.00	170.60	18.20		105.60	161.60	182.60	174.10	25.50	14.50	150.90	174.85	65.80	74.00	109.70		195.80	193.10	194.60		
WL ALT	2006		98.80	De	Ave		155.25	74.40	66.80		205.80	77.40	-0.65	15.46		32.10	-11.40	25.52		40.03	179.00	13.17		96.32	158.90	180.87	176.50	-19.46	14.29		178.22		78.22		197.21	194.80	188.84	193.83		156.70
WL ALT	2007	99.74	98.69				155.66	82.67	73.18	98.20	197.21	49.27	11.10	42.10	32.03	31.93	1.20	11.14	42.34	20.85	181.40	26.89	25.11	109.99	158.56	182.63	189.90	-18.84	18.80	84.62	177.52	68.78	89.00	117.31	196.43	194.93	192.18	191.42	161.15	162.96
07 WL	Meas	120.26	204.31				216.34	319.33	263.82	251.80	142.79	275.73	263.90	262.90	268.97	216.07	310.80	313.96	292.66	284.15	116.60	276.11	277.89	201.01	83.44	135.37	128.10	281.84	271.20	230.38	134.48	263.22	201.00	166.69	45.57	53.07	53.82	52.58	52.85	108.04
W	Date	3/21/2007	3/21/2007				2/13/2007	3/16/2007	3/16/2007	2/13/2007	2/13/2007	3/16/2007	2/8/2007	2/8/2007	3/21/2007	2/7/2007	2/8/2007	3/21/2007	3/21/2007	2/7/2007	2/7/2007	3/14/2007	3/21/2007	2/7/2007	2/7/2007	2/7/2007	2/7/2007	2/7/2007	2/7/2007	3/21/2007	2/7/2007	3/21/2007	2/13/2007	2/13/2007	3/15/2007	3/15/2007	3/15/2007	3/15/2007	3/15/2007	3/15/2007
LSD	Alt	220.00	303.00			1	372.00	402.00	337.00	350.00	340.00	325.00	275.00	305.00	301.00	248.00	312.00	325.10	335.00	305.00	298.00	303.00	303.00	311.00	242.00	318.00	318.00	263.00	290.00	315.00	312.00	332.00	290.00	284.00	242.00	248.00	246.00	244.00	214.00	271.00
	Longitude	921743.38	921423.47	-			931215.01	931141.34	931237.40	931736.47	932224.89	930328	930536.26	930655.59	930704.56	930650.14	930807	931200.69	930754.88	931423.65	931758.30	931448.61	931449.35	931818	932303	932209	932136	931227.04	931015.76	931758.51	932158.59	931128.72	931030.67	931724.2	932833.33	932744.02	932722.12	932752.38	932236.27	932133.20
	Latitude	335132.99	334543.01				332453.37	332114.08	332052.93	331955.06	331947,61	331537	331538.06	331516.81	331432.77	331406.12	331533	331519.76	331307.06	331743.07	331613.42	331606.55	331609.3	331607	331516	331521	331519	331114.79	331054.37	331033.97	330834.57	330555.38	330239.09	330517.2	330643.92	330609.39	330604.93	330555.24	330138.44	330109.20
	Station	10S12W12BDD1	11S11W16AAB1				15S20W20CCB1	16S20W08DCC1	16S20W18ACD1	16S21W20DAD1	16S22W22CCD1	17S19W15ABD1	17S19W17ACA1	17S19W18CBD1	17S19W19BCA1	17S19W30ABB1	17S20W13BCD1	17S20W17CDA1	17S20W36ABC1	17S21W01BBC1	17S21W08DCA1	17S21W11DCC2	17S21W11DCC3	17S21W17BAB1	17S22W21ABD1	17S22W22ABC1	17S22W23BBB1	18S20W08CBC1	18S20W10CAA1	18S21W17ACD1	18S22W27DDD1	19S20W09CBD1	19S20W34BDD1	19S21W16DBB1	19S23W10ABD1	19S23W11CDA2	19S23W11DDB1	19S23W14BAB2	20S22W03DCC1	20S22W11ACD1
	County	Cleveland	Cleveland				Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia	Columbia								

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10-16	Cuange	7/20	-5.27	-2.22	-3.10	-8.33	-1.71	0.00	-10.28		-1.82	6/7	-3.92	-7.94	-7.70		-31.95		-3.89		4/4	-12.87			-15.41			-18.88	-14.76	1	3/3	-16.35
02-07	Change	10/25	-2.91	-2.96	-3.28	-4.88	0.30	1.50	2.33	6.31	2.94	3/8	0.28	-2.31	-0.08						2/2				-5.99	-5.18	-2.58	-10.56			4/4	-6.08
20-90	Change	9/26	2.38	-0.86	1.82	-8.28	1.10	0.10	0.23		2.24	2/7	-0.52	1.09	0.32	0.71		-0.02	-0.06		2/5	0.41		-0.81	-2.09	-1.68	-0.38		7.47		4/5	0.50
WL ALT	1881	:5	ge:	161.46	201.72	199.85	209.31	330.80	329.76		214.56	:5	ge:	191.03	190.42		199.44		188.63		5:	ge:			157.32			163.82	172.35		18:	ge:
WL ALT	2002	Declines/Wells:	Average Change:	162.20	201.90	196.40	207.30	329.30	317.15	227.80	209.80	Declines/Wells:	Average Change:	185.40	182.80				1		Declines/Wells:	Average Change:			147.90	142.70	151.60	155.50			Declines/Wells:	Average Change:
WL ALT	2006	De	Ave	160.10	196.80	199.80	206.50	330.70	319.25		210.50	De	Ave	182.00	182.40	205.90		186.00	184.80		ð	Ave		174.30	144.00	139.20	149.40		150.12		De	Ave
WL ALT	2007			159.24	198.62	191.52	207.60	330.80	319.48	234.11	212.74			183.09	182.72	206.61	167.49	185.98	184.74	191.13			151.66	173,49	141.91	137.52	149.02	144,94	157.59			
07 WL	Meas			88.76	57.38	62.48	12.40	-1.80	118.52	23.89	17.26			27.91	26.28	8.39	54.51	35.02	32.26	24.87			206.34	35.51	92.09	89.48	127.98	133.06	271.73			
ML	Date			4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007			4/12/2007	4/12/2007	4/12/2007	4/12/2007	4/6/2007	4/12/2007	4/12/2007			4/13/2007	4/19/2007	4/13/2007	4/13/2007	4/17/2007	4/17/2007	4/19/2007			
LSD	At			248.00	256.00	254.00	220.00	329.00	438.00	258.00	230.00			211.00	209.00	215.00	222.00	221.00	217.00	216.00			358.00	209.00	234.00	227.00	277.00	278.00	429.32			
	Longitude			904432.83	903920.99	903953.27	903100.18	904301	904043.21	903432.73	902858.20			901300.21	901738.42	900921.78	900553.13	901933	900628.23	902130.65			904237.72	903329.85	905950.75	905554.00	904518.39	904511.77	904215			
	Latitude			354404.17	354928.92	354836.94	354750.84	355614	355506.01	355359.83	355544.42			350344.68	350958.04	350849.72	350744,84	351629	351348.14	352341.22			351004.29	351538.11	352405.00	352244.31	352403.82	352403.2	352231			
	Station			13N03E23CDD1	14N04E22CBD1	14N04E28DBD1	14N05E36CBC1	15N03E13ABA1	15N04E20ADB1	15N05E29DBB1	15N06E18ACA1			05N08E11CCA2	06N07E01DAD2	06N09E08DCC1	06N09E23AAB1	07N07E35BCC1	07N09E14BAC1	09N07E21BBB1			06N04E06ACA1	07N05E04ADD1	09N01E16CAC1	09N01E25AAD1	09N03E22AAB2	09N03E22AAD1	09N04E30DCA1			
	County			Craighead	Craiohead	Craiohead	Craiohead	Crainhead	Craighead	Craighead	Craighead			Crittenden			Cross															

10-16	Change		11.87	-2.90	1.00		-2.61	4.21			-3.31			4/6	-0.03	-9.05	-6.39	-13.13		-17.60		-6.45	5/5	-10.52		-8.51	-8.11		-17.13	-3.10	-6.65	6/5	-8.70
02-07	Change	-1.05	2.93	-5.26		0.24	-0.56	5.68		-2.01	-0.78	-5.94		6/9	-0.75	-0.04	-2.78		-2.61	-9.73	1.71	-2.71	5/6	-2.69	10.1	4.10		-8.82	-11.66	1000	-2.78	4/5	-5.29
06-07	Change	0.28		-2.06	3.56	6.19	0.84	0.08	-3.62	3.69	1.07	-10.14	-1.60	4/11	-0.16	0.76	-2.98	-2.87	-5.81	4.23	-2.69	6.89	2/2	-1.56	19/0	10.22		1000	-10.46	-2.73	-0.48	3/5	-0.53
WL ALT	1997		207.06	296.44	212.33		240.95	132.59			123.93			:5	ge:	89.41	55.91	85.16		81.87		71.24	:5	ge:	-	68.33	60.52		66.97	79.87	67.97	:5	ge:
WLALT	2002	215.70	216.00	298.80		234.90	238.90	122.70		254.70	121.40	242.50		Declines/Wells:	Average Change:	80.40	52.30	in a lot	58.00	74.00	36.00	67.50	Declines/Wells:	Average Change:	25.90	64.00		39.20	61.50		64.10	Declines/Wells:	Average Change:
WLALT	2006	214.37		295.60	209.77	228.95	237.50	128.30	185.70	249.00	119.55	246.70	250.55	å	Ave	79.60	52.50	74.90	61.20	68.50	40.40	57.90	De	Ave	26.10	49.60			60.30	79.50	61.80	å	Ave
WL ALT	2007	214.65	218.93	293.54	213.33	235.14	238.34	128.38	182.08	252.69	120.62	236.56	248.95			80.36	49.52	72.03	55.39	64.27	37.71	64.79			56.91	59.82	52.41	30.38	49.84	76.77	61.32		
07 WL	Meas	120.35	111.07	28.46	26.67	16.86	33.66	71.62	82.92	7.31	151.38	33.44	79.05			72.64	115.48	75.97	105.61	74.73	100.29	82.21			96.09	88.18	150.59	226.62	177.16	92.23	63.68		
ML	Date	3/13/2007	3/13/2007	3/13/2007	3/13/2007	3/13/2007	3/13/2007	3/13/2007	3/13/2007	3/14/2007	3/13/2007	3/13/2007	3/14/2007			3/19/2007	3/19/2007	3/19/2007	3/19/2007	3/19/2007	3/19/2007	3/19/2007			3/20/2007	3/20/2007	3/20/2007	3/20/2007	3/20/2007	3/20/2007	3/20/2007		
LSD	Alt	335.00	330.00	322.00	240.00	252.00	272.00	200.00	265.00	260.00	272.00	270.00	328.00			153.00	165.00	148.00	161.00	139.00	138.00	147.00			153.00	148.00		257.00	227.00	169.00	125.00		
	Longitude.	923359.85	923334.44	924541	923658	922446	924307	922413	922918.78	924701.17	922457.61	923137.99	924120.08			911520.82	913006.71	911623.99	912905.14	911711.03	912259.18	912305.04			912826.56	912706.98	914122.37	914543.08	914401.96	913407.59	912723.69		
	Latitude	340430.87	340425.29	340559	335853	940152	335935	335304	335753.63	335605.48	334829.46	334907.60	335119.53			335346.00	335309.60	334750.23	335034.41	334615.78	333748.60	333643.44			334631.87	334249.46	334606.63	333807.15	333649.09	333150.88	332429.38		
	Station	07S14W30DCC1	07S14W31AAA1	07S16W20CAB1	08S15W34BDC1	08S16W18ACC1	08S16W27DDD1	09S13W35CCD1	09S14W01BDC1	09S16W19CAA1	10S13W34ACA2	10S14W27CDB1	10S15W18BCC1			09S02W26AAC1	09S04W28DDD1	10S02W26CCC2	10S04W11CBC1	11S02W03CCA1	12S03W26CBB1	12S03W34DAD1			11504W02ACA2	11S04W25CB2	11S06W11DBC1	12S06W30BBD1	12S06W32DAD1	13S05W36ACB1	15S04W12DDA1		
	County	Dallas			Desha			Drew	Drew	Drew	Drew	Drew	Drew	Drew																			

10-15	Change	-3.31	0.64	7.03	14.21	-7.29	9.03		2.83	1.20	-19.94	-3.78	0.04	4/11	0.06	1	0.90	-12.59	-24.88	-24.43				-9.53	-37.78	-17.05		-14.34	-22.84	-17.33			37.40		7.07-	-29.94	-43.18	-16.30	-15,55
02-07	Change								3.36								-0.28	-2.05	-7.63	-8.58	-6.85				-21.25		-0.31	-3.87		-1.23			50.60		-0.67	-12.85	-24.78		2.45
20-90	Change	-0.41	-2.92		-0.46	-2.83	0.15		-0.24	0.21	-19.96	-5.57	-0.98	8/10	-3.30			-2.45	-8.43		-18.45		-10.83		-28.85					-0.63	4,45	25.80	-3.00		1.23	-19.80	-27.08	-0.30	1.75
WL ALT	1997	231.90	325.34	166.38	157.53	174.36	167.22		202.53	216.51	83.88	211.01	218.84	1	9e:		306.32	55.64	58.65	61.55				143.08	32.43	1.55		100.67	-54.82	-53.73			-71.00	1000	37.80	32.69	31.80	-39.18	-6.32
WL ALT	2002								202.00					Declines/Wells:	Average Change:		307.50	45.10	41.40	45.70	44.00				15.90		59.80	90.20		-69.83			-84.20		31.40	15.60	13.40		-24.32
WL ALT	2006	229.00	328.90		172.20	169.90	176.10		205.60	217.50	83.90	212.80	219.86	De	Ave			45.50	42.20		55.60		96.20	Contraction of the	23.50					-70.43	-52.00	-73.40	-30.60		29.50	22.55	15.70	-55.18	-23.62
WL ALT	2007	228.59	325.98	173.41	171.74	167.07	176.25	200.86	205.36	217.71	63.94	207.23	218.88				307.22	43.05	33.77	37.12	37.15	100.40	85.37	133.55	-5.35	-15.50	59.49	86.33	-77.66	-71.06	-47.55	-47.60	-33.60	9.43	30.73	2.75	-11.38	-55.48	-21,87
1W 10	Moas	132.41	11.02	83.59	88.26	113.93	81.75	129.14	87.64	14.29	216.06	72.77	4.12				34.78	173.95	181.23	177.88	186.85	120.60	136.63	176.45	205.35	215.50	205.51	313.67	298.66	279.23	274.55	273.60	238.60	225.57	246.27	312.25	311.38	257.90	225.35
W	Date	3/22/2007	3/22/2007	3/22/2007	3/22/2007	3/22/2007	3/22/2007	3/22/2007	3/22/2007	3/22/2007	3/22/2007	3/22/2007	3/22/2007				3/13/2007	3/27/2007	3/27/2007	3/27/2007	3/27/2007	3/27/2007	3/27/2007	3/27/2007	4/3/2007	3/27/2007	3/29/2007	3/29/2007	4/3/2007	4/3/2007	3/28/2007	3/29/2007	4/3/2007	3/29/2007	3/29/2007	3/29/2007	3/29/2007	3/30/2007	4/3/2007
LSD	Alt	361.00	337.00	257.00	260.00	281.00	258.00	330.00	293.00	232.00	280.00	280.00	223.00				342.00	217.00	215.00	215.00	224.00	221.00	222.00	310.00	200.00	200.00	265.00	400.00	221.00	208.17	227.00	226.00	205.00	235.00	277.00	315.00	300.00	202.42	203.48
	Longitude	922106.24	923447.01	922931.98	922400.47	922401.95	922649.75	341550.1	923326.69	923826.87	921413.01	923537.59	921952.7				924151.12	915443.67	915504.54	915455.22	915712.96	920330.26	920433.81	921058.27	914741.85	915056.13	920645.6	921000.07	915440.2	915555.60	920109.42	920131	915653.1	920321.58	920548.64	920542.79	920534	915517.06	915116.18
	Latitude	342845.65	342600.52	342201.17	341843.97	341837.64	341810	341550.1	341842.5	341923.78	341340.82	341021.99	340558.11				341459.51	342623.76	342628.36	342618.71	342626.95	342659.22	342502.05	342650.81	342139.61	341909.06	342212.14	342219.74	341452.32	341529.68	341336.69	341605	341420.05	341741.24	341700.48	341634.59	341634	341143.07	341024.86
	Station	03S13W12AAA1	03S15W26DAA1	04S14W14CCC1	05S13W03CAA1	05S13W03CDA4	05S13W07ADB1	05S13W30AAA1	05S14W06DCC1	05S15W05ABD1	06S11W05ACD1	06S15W26ACA1	07S12W21BDB1				05S16W35ACA1	03S08W19BAD1	03S08W19BBD1	03S08W19BDB1	03S09W23BBD1	03S10W14CAD1	03S10W27AAD1	03S11W22ABC1	04S07W17BCC1	04S08W35BBD1	04S10W17BDA1	04S11W14BAD1	05S08W30ADB1	06S09W24DBD1	05S09W31DDC1	05S09W19BAA3	05S09W35AAB1	05S10W11ACA1	05S10W16BAD1	05S10W16DBB1	05S10W16DBD1	06S08W16CCC1	06S08W25ADC1
	County	Grant				Hot Spring	Jefferson	Jefferson	Jefferson	Jefferson	Jefferson	Jefferson	Jefferson	Jefferson	Jefferson	Jefferson	Jefferson	Jefferson	Jefferson	Jefferson	Jefferson	Jefferson																	

20-78	Change		4.06		-31.95	-18.28	19.21	16/20	-14.86																-19.47	-22.73	-39.51	-23.30		-13.95			5/5	-23.79	-14.03		
02-07	Change			-5.84	-6.12			14/17	-3.27	-19.18	-5.21	-3.05	-3.92	-2.26				-1.96	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6/6	-5.93				-9.35	-9.76	-29.15	-11.88	1 10.00	-4.86			5/5	-13.00			
08-07	Change	18.82		1.66		-9.85	29.20	11/18	-2.60	-15,98	-2.21			2.54	-2.16			-1.96		4/5	-3.95				-13.95	-8.76	-29.85					2.5	3/3	-17.52	-1.72	14.44	
WL ALT	1997	100 miles	-27.10	000000	13.83	35.43	32.99	::	:eb											:8	ge:				37.42	50.27	52.36	34.42		34.09			is:	ge:	105.81		
WL ALT	2002			10.00	-12.00			Declines/Wells:	Average Change:	263.30	214.60	240.10	229.50	244.00				203.00	Section 199	Declines/Wells:	Average Change:				27.30	37.30	42.00	23.00		25.00			Declines/Wells:	Average Change:			
WL ALT	2006	49.60		2.50		27.00	23.00	De	Ave	260.10	211.60			239.20	209.00			203.00		۵	Ave				31.90	36.30	42.70						å	Ave	93.50	97.25	
WLALT W	2007	-30.78	-23.04	4.16	-18.12	17.15	52.20			244.12	209.39	237.05	225.58	241.74	206.84	214.77	207.03	201.04				145.79	146.56		17.95	27.54	12.85	11.12	9.83	20.14	32.61				91.78	111.69	115.15
07 WL	Meas	263.78	257.38	230.84	248.12	170.85	258,80			77.88	57.61	53.95	35.42	13.26	43.16	40.23	34.97	40.96				62.21	54.44		190.05	152.46	152.15	228.88	260.17	279.86	259.39				131.22	98.31	125,85
ML	Date	3/28/2007	3/28/2007	3/28/2007	3/28/2007	3/28/2007	3/28/2007			3/14/2007	3/14/2007	3/14/2007	3/14/2007	3/15/2007	3/15/2007	3/15/2007	3/15/2007	3/15/2007				4/9/2007	4/9/2007		3/26/2007	3/26/2007	3/26/2007	3/26/2007	3/26/2007	3/26/2007	3/26/2007				4/2/2007	4/3/2007	4/4/2007
LSD	Alt	233.00	234.34	235.00	230.00	188.00	311.00			322.00	267.00	291.00	261.00	255.00	250.00	255.00	242.00	242.00				208.00	201.00		208.00	180.00	165.00	240.00	270.00	300.00	292.00				223.00	210.00	241.00
	Longitude	920206.91	920220.85	920503.93	920506.17	914522.99	920420.81			932608.59	933302.96	933127.61	933402.79	933039.27	933103.37	933922.02	933026.3	933036.08				904119.07	905924.74		915042.86	913453.58	913337.26	915222.4	915217.37	915128.31	915118				914503.28	914959.73	914737.03
	Latitude	341158.70	341151.82	341123.09	341104.56	340632.68	340548.70			332142.57	331950.2	331519.6	331525.67	330910.83	330351.94	330555.42	330222.7	330223.35				344209.69	344743.36		340443.93	340309.54	335906.6	335858.35	335850.57	335633.89	335643.5				344425.34	343854.72	344939.05
	Station	06S09W17CAD1	06S09W17CCA1	06S10W23ACA2	06S10W23DBA1	07S07W24BAB1	07S10W24CAC1			16S23W12CAD1	16S24W26AAC1	17S23W19ACC1	17S24W23BBD1	18S23W29ACC1	19S23W29BDB1	19S25W13CAB1	20S23W05ADA1	20S23W05ADB1				01N04E09CDD1	02N01E10CAD1	North Contraction of the Contrac	07S07W30CDC1	08S05W03BAA2	08S05W35ACC1	08S08W35DBB1	08S08W35DCB1	09S07W07DAD1	09S07W08BCC1				01N07W03BCC1	01S08W02DBD1	02N07W06ACD1
	County	Jefferson	Jefferson	Jefferson	Jefferson	Jefferson	Jefferson			Lafayette	Lafayette	Lafayette	Lafayette	Lafavette	Lafavette	Lafayette	Lafayette	Lafayette				Lee	Lee		Lincoln				Lonoke	Lonoke	Lonoke						

10-15	Change	-7,41	-14.24	-21.45		-22.87	-4.64						6/6	-14.11	2.99						-11.96		-6.97	-6.21	6.31		116	-	14	-	-3.12		-5.77	1.30			-0.07
02-07	Change	-3.55	-7.11	-2.85	-7.10		-2.98						5/5	4.72							-7.26	4.94	-1.42	-2.38	-2.70			0.0	-3.74		-0.14	-3.92	4.03	1.000	22.18	2.17	2.37
10-90	Change	-1.15	-1.86			-9.97	-1.53				-11.89		6/7	-1.95						-0.90	-5.76	-1.64	0.02	-0.28	-1.70	-1.07		10	-1.62		2.86	-1.35		10.25	3.78	-3,25	-3.23
WL ALT	1997	137.96	109.53	102.80		166.90	159.66						ls:	ge:	209.97						108.00		149.95	165.53	161.89		1		:00:		133.78		129.34	158.80			204.44
WL ALT	2002	134.10	102.40	84.20	65.70		158.00					Succession of the second	Declines/Wells:	Average Change:							103.30	143.70	144.40	161.70	170.90		Total a sector	Declines/weils.	Average Change:		130.80	127.60	127.60		85.40	97.20	202.00
WL ALT	2006	131.70	97.15			154.00	156.55			00000	140.10		De	Ave						122.80	101.80	140.40	142.96	159.60	169.90	168.00		3	Ave		127.80	125.03		149.85	103.80	102.62	207.60
WL ALT	2007	130.55	95.29	81,35	58.60	144.03	155.02	154.88	136.49	134.14	128.21				212.96	318.52	214.04	211.12		121.90	96.04	138.76	142.98	159.32	168.20	166.93					130.66	123.68	123.57	160.10	107.58	99.37	204.37
DV WL	Moas	101.45	131.71	149.65	143.40	81.97	79.98	93.12	96.51	98.86	106.79	242			7.04	1.48	25.96	24.88		63.10	75.96	71.24	49.02	32.68	11.80	15.07					69.34	22.32	9.43	52.90	32.42	34.63	30.63
ML	Date	4/4/2007	4/2/2007	4/2/2007	4/4/2007	4/3/2007	4/4/2007	1/24/2007	1/24/2007	1/24/2007	1/24/2007				3/15/2007	3/15/2007	4/18/2007	4/18/2007		3/8/2007	4/4/2007	4/4/2007	4/9/2007	4/9/2007	4/9/2007	4/9/2007					3/22/2007	3/22/2007	4/26/2007	3/22/2007	3/21/2007	3/21/2007	3/26/2007
LSD	Alt	232.00	227.00	231.00	202.00	226.00	235.00	248.00	233.00		235.00				220.00	320.00	240.00	236.00		185.00	172.00	210.00	192.00	192.00	180.00	182.00					200.00	146.00	133.00	213.00	140.00	134.00	235.00
	Longitude	914500.30	914425.68	914209.37	914700.29	915825.0	914426.30	914934.74	345205.16	915023.87	915025.08				934402.45	935345	900523.06	900539		910542	911801.12	910635.08	911026	911221	911503.95	911514.62					923725.58	924927.46	924834.21	923922.44	924210.82	924304.12	925948
	Latitude	344906.42	344651.49	344650.23	343235,49	343246.5	345444.90	345402.52	345205.16	345204.58	345152.18				331604.95	330719	353302.32	353304.1		344139	344143.93	345446.34	345043	345535	345617.03	345617.24					334440.87	334631.35	334341.11	334223.32	333929.4	333945.55	334018
	Station	02N07W09AAA1	02N07W22DBA1	02N07W24DAC1	02S07W08DCC1	02S09W15BBB2	03N07W03CAA1	03N08W11ACD1	03N08W22DAD1	03N08W22DAD2	03N08W22DDD2				17S25W18CDB1	19S27W10BBA1	11N09E26AAD3	11N09E26ABA2		01N01W15CBD1	01N03W14CCB1	03N01W33CDD1	03N02W26DAB1	04N02W28DDD4	04N02W30BAC1	04N02W30BAD1					11S15W27ABD1	11S17W14CAC1	11S17W36CCA1	12S15W09BBA1	12S16W25BDC1	12S16W26ABD1	12S18W19CDC1
	County	Lonoke				Miller	Miller	Mississippi	Mississippi		Monroe					Ouachita																					

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97-07 Change	- CHARLES		-2.75		-98.16			-0.97		94.14	-1.41				-1.98				-4.28	-8.63	C FUIA D	71111	+0.7-	£ 74	10.05	-8.98		-6.86	-2.04	-0.40	-2.13	111	-3.91		-11.93			
02-07 Change	affeiture a	-8.06	-6.20	-4.25	-6.35	-7.28	-2.58	-1,91	-8.16		-1.84	-2.57	3.64	-1.40	-0.46	7.08		1.20	-1.36	-9.12	47/03	11160	-1.30	2 67	203		-29.09	-3.21	2.64	7.85	1.33	317	-3.02	-0.18	0.28	-3.70	3.32	
06-07 Change	ALL DAY	0.84	1.60	-1.05	-1.15	-3.53	0.52	1.59	11.38	4.30	2.10	28.78	2.20	-0.24	-0.96	4.08		0.15	-0.16	-8.86	4 AIMA	47ML	11.7	7 87	417		-23.89	-1.11	3.19	6.85	-0.37	5/7	-3.91	-2.88	-1.02	-2.00		0.00
WL ALT	1991		276.05		287.91			192.76		90.6	121.17				193.82				144.42	89.81			:a6	139.64	141 08	126.46		161.75	157.48	137.35	130.76	::	ge:		147.01			
WL ALT	AUUA	116.50	279.50	233.80	196.10	80.00	173.40	193.70	213.40		121.60	247.80	137.30	267.10	192.30	-57.50		64.40	141.50	90.30	Contraction (100	CHINES/WEI	Average Change:	130.40	127 00	101.00	149.90	158.10	152.80	129.10	127.30	Declines/Wells:	Average Change:	133.80	134.80	145.20	136.00	
WL ALT	SUUG	107.60	271.70	230.60	190.90	76.25	170.30	190.20	193.86	98.90	117.66	216.45	138.74	265.94	192.80	-54.50		65.45	140.30	90.04	-	5	Ave	AT ACA	104100	20.041	144.70	156.00	152.25	130.10	129.00	De	Ave	136.50	136.10	143.50		44.11
WL ALT	SUUS	108.44	273.30	229.55	189.75	72.72	170.82	191.79	205.24	103.20	119.76	245.23	140.94	265.70	191.84	-50.42	43.85	65.60	140.14	81.18				400.00	140.02	117.48	120.81	154.89	155.44	136,95	128.63			133.62	135.08	141.50	139.32	
07 WL	Moas	78.56	16.70	7.45	160.25	33.28	71.18	38.21	25.76	16.80	37.24	13.77	79.06	43.30	88.16	169.42	126.15	94.40	69.86	198.82				04.47	36.47	132.52	129.19	35.11	23.56	35.05	37.37			100.38	96.92	79.50	111.68	
WL	Date	4/30/2007	3/26/2007	3/26/2007	3/26/2007	3/21/2007	3/15/2007	3/26/2007	3/15/2007	4/26/2007	4/17/2007	3/21/2007	3/21/2007	4/26/2007	3/15/2007	3/15/2007	4/26/2007	3/21/2007	4/26/2007	4/17/2007				1000001	10020014	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/11/2007	4/10/2007			4/18/2007	4/18/2007	4/18/2007	4/18/2007	
LSD	All	187.00	290.00	237.00	350.00	106.00	242.00	230.00	231.00	120.00	157.00	259.00	220.00	309.00	280.00	119.00	170.00	160.00	210.00	280.00				000.00	00.112	250.00	250.00	190.00	179.00	172.00	166.00			234.00	232.00	221.00	251.00	
1 opoiliteda	Longitude	925441.87	930351.94	930104.54	930145.97	924450.63	925958	930417.81	924639.52	924926	925254.64	925345.44	925251.18	925703.97	930513.43	924027.13	924314.16	925436.06	930318.37	930431.9				11 11 11 11	14/004000	903844.34	903906.98	903525.64	903635.44	904914.59	905121.49			905629.57	905825.14	905924.05	904446.6	
1-attivity	Lattude	333937.19	334251.46	334143.44	333901.13	333416.22	333340	333433.86	332815.62	333252	333238.01	333002.20	332803.41	332917.60	332941.45	332233.72	332416.77	332310.75	332618.38	332438.02					343324.32	343242 68	343242.87	343108.32	342850.81	342402.88	341824.20			353026.35	352930.54	352724.90	353139.29	
Station	Station	12S18W25CAB1	12S19W09BAB1	12S19W14AAA1	12S19W35BDD1	13S16W28ADD1	13S18W31BDD1	13S19W28BCD1	14S16W32BDB1	14S17W02ABB1	14S17W05CAD1	14S17W19DBB1	14S17W32CAD1	14S18W27BDC1	14S19W29ABB1	15S15W32DBB2	15S16W23DAC1	15S18W36ADD1	15S19W10DCC1	15S19W21CDD2					015025320001	02SD4E07DA1	02S04E02DBA1	02S05E16BCB1	02S05E29CCC1	03S03E30DAA1	04S02E25CCC1			10N01E12BDC1	10N01E15DBB1	10N01E33ABA1	10N03E02BCD1	
County	County	Ouachita				1	Philips	Philips	Philips	Phillips	Phillips	Phillips	Phillips			Poinsett	Poinsett	Poinsett	Poinsett	THE PARTY OF THE P																		

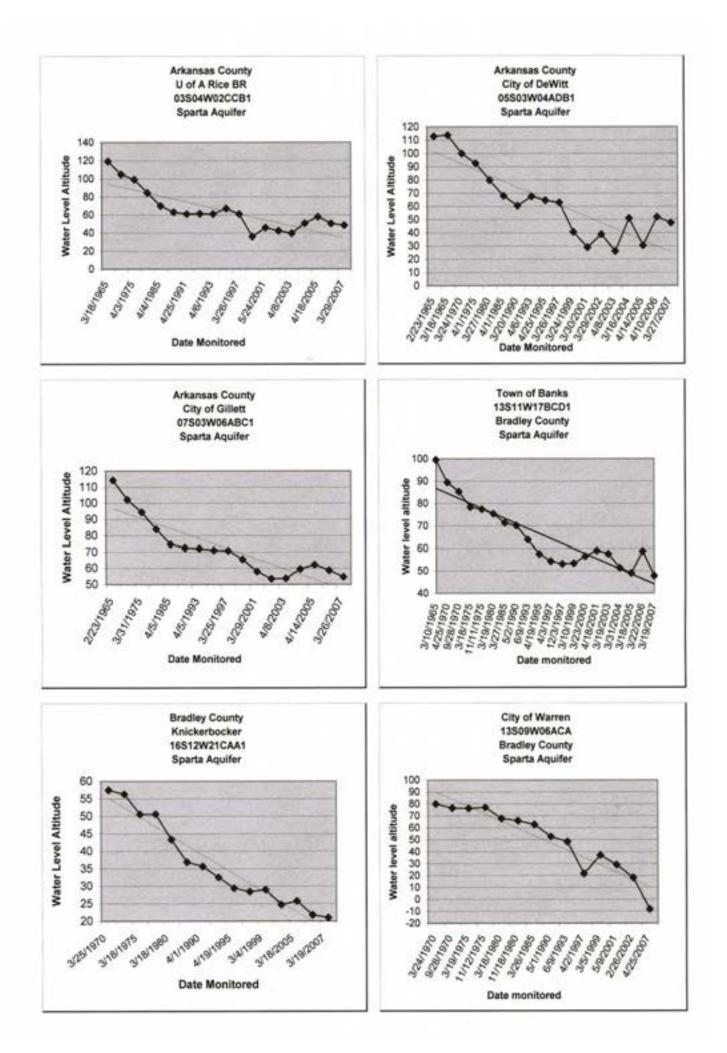
-1.39 -2.36 144.60 149.97
149.97
-
142.70
146.50 -0.05
Daclinae/Malle: 8/7
t
212.00 5.05
101.10 116.86 -2.84
53.00 73.66 12.35
77.10 -7.32
-2.95
125,67
1.00
136.34
106.35
106.40 114.81 -10.92
114.70 112.23
-0.72
14.30
154.30 -0.16
+
Average Change: -0.70
-
151.80 156.43 1.86
-54.10 -56.04 11.69
-74.87
-54.83
-28.90 2.47

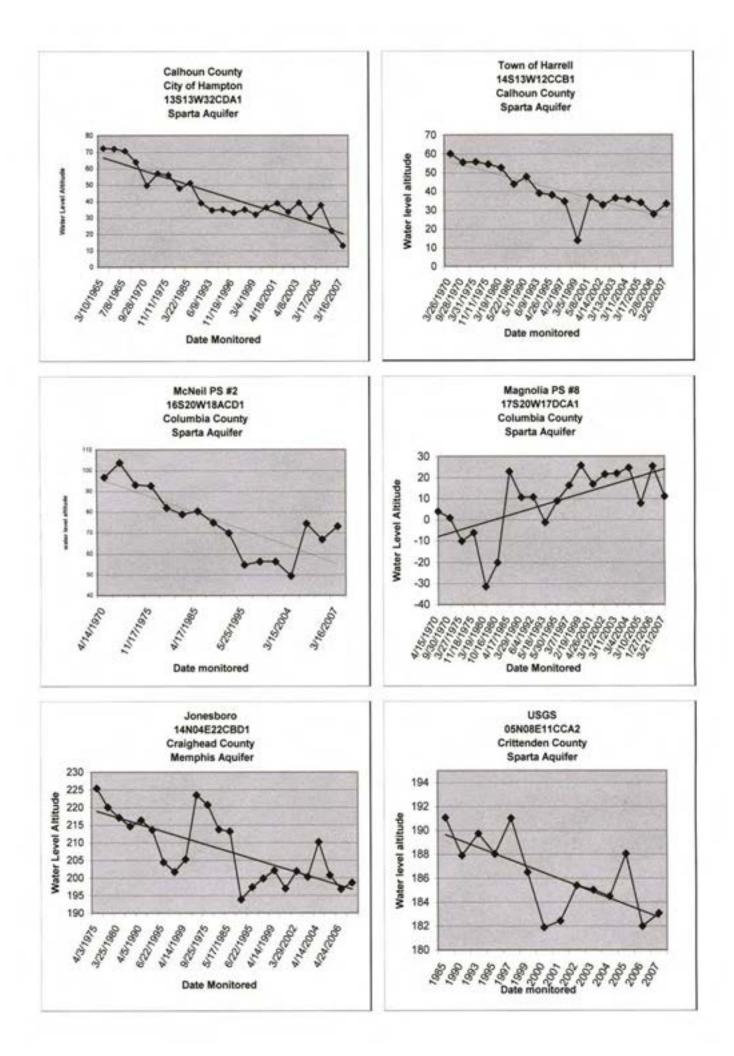
97-07 Change	-20.03		4.56	-24.91						58.41		-53.62	56.65							59.72		-14.25	4.96	-14.09	28.20			8.13	21.61	3.97				20.68	21.98		-13.47		-15.20	-2.20
02-07 Change	-1.53		-3.84	-16.44	-1.63			17.22		55.17	56.57	22.52	31.01	50.14	52.08					51.15			0.56	-2.46	19.20		9.88	27.33	15.62	8.25			27.16	15.00			-5.33	-2.24	4.70	17.83
06-07 Change	-16.73		6.00		0.11	-50.12	11.74	8.02	13.55	25.94		17.51	1.37	15.00		34.02				30.25	13.31	-11.83		-27.96	0:30	3.68		14.52	9.19	8.65			2.31	9.07	10.33	19.60	2.18	1.57	2.06	14.85
WL ALT 1997	60.50		-5.98	-68.13						-176.81		-84.26	-198.44							-198.57		-29.28	45.32	-13.47	-146.00			-115.00	-104.39	-146.72				-114.88	-77.67		7.14		-1.00	50.83
WL ALT 2002	42.00		-6.70	-76.60	91,60			-89.70		-173.57	-167.40	-160.40	-172.80	-174.75	-174.50					-190.00			39.80	-25.10	-137.00		-71.50	-134.20	-98.40	-151.00			-230.20	-109.20			-1.00	-8.20	-11.50	30.80
WL ALT 2006	57.20		-16.54		89.86	122.82	-108.35	-80.50	-128.28	-144.34		-155.39	-143.16	-139.61		-116.91				-169.10	-99.73	-31,70		0.40	-118.10	-109.73		-121.39	-91.97	-151.40			-205.35	-103.27	-66.02	-47.88	-8.51	-12.01	-18.26	33.78
WL ALT 2007	40.47	-6.07	-10.54	-93.04	89.97	72.70	-96.61	-72.48	-114.73	-118.40	-110.83	-137.88	-141.79	-124.61	-122.42	-82.89	-138.37	-157.78	-160.78	-138.85	-86.42	43.53	40.36	-27.56	-117.80	-106.05	-61.62	-106.87	-82.78	-142.75	-112.30	-132.68	-203.04	-94.20	-55,69	-28.28	-6.33	-10.44	-16.20	48.63
07 WL Meas	209.53	228.07	241.54	309.04	96.03	96.30	297.61	242.48	289.65	301.33	345.83	422.88	361.79	396.61	383.42	271.73	316.37	375.78	382.38	343.85	336.42	323.53	94,64	139.56	342.80	346.05	344.62	359.87	283.78	412.75	337.30	314.68	433.04	319.20	340.69	267.28	88.33	152.44	151.20	142.37
WL Date	2/23/2007	3/22/2007	2/23/2007	3/8/2007	2/20/2007	2/20/2007	3/14/2007	2/20/2007	3/22/2007	3/14/2007	3/14/2007	3/22/2007	3/22/2007	3/7/2007	3/14/2007	3/21/2007	3/22/2007	3/22/2007	3/22/2007	3/9/2007	3/14/2007	3/21/2007	3/22/2007	2/23/2007	2/23/2007	3/14/2007	3/21/2007	3/21/2007	3/21/2007	3/21/2007	3/14/2007	3/21/2007	3/7/2007	3/7/2007	3/14/2007	3/21/2007	2/23/2007	2/23/2007	2/23/2007	2/23/2007
LSD Alt	250.00	222.00	231.00	216.00	186.00	169.00	201.00	170.00	174.92	182.93	235.00	285.00	220.00	272.00	261.00	188.84	178.00	218.00	221.60	205.00	250.00	280.00	135.00	112.00	225.00	240.00	283.00	253.00	201.00	270.00	225.00	182.00	230.00	225.00	285.00	239.00	82.00	142.00	135.00	191.00
Longitude	925709	922225.88	922219.02	922915.7	923203.26	923159.8	923224.17	924133.99	924027.41	924129.21	923909.78	923922	924039.39	924116.74	924104.87	924232.96	924403.41	924325.72	924232.01	924248.47	924837	925355.54	921443.35	922119.92	923531	923802.12	924139	923858.48	923707	924316.37	924314.1	924445.32	924231.85	924611.13	925056.48	925615.1	920903	921228.80	921113.03	921716.78
Latitude	331805	331206.4	331202.09	331200.17	331456.79	331451.3	331354.37	331645.6	331504.77	331438.96	331246.08	331223	331228.71	331145.05	331143.75	331649.04	331559.23	331602.12	331505.81	331357.24	331256	331257.41	331011.92	330650.66	331040	331103.78	331035	330659.32	330635	331011.23	331041.13	331000.38	331028.75	330809.22	330855.91	331050.91	330329	330255.38	330217.84	330411.26
Station	16S18W34ABC2	17S12W31DDD1	17S12W32BBC1	17S13W31BAC1	17S14W10DCC1	17S14W15ABA1	17S14W22BAB1	17S15W06BAA1	17S15W08CDD1	17S15W18DBB1	17S15W28DBA1	17S15W28DCC1	17S15W29CDC1	17S15W31DCA1	17S15W31DDA1	17S16W01BAA1	17S16W02CCC1	17S16W02DCD1	17S16W12CDD1	17S16W24BDB1	17S17W25DBA2	17S17W30DCD1	18S11W09ABC1	18S12W33BBB1	18S14W06CCD1	18S15W03DAB1	18S15W07BAC2	18S15W33ADA1	18S15W35DAC1	18S16W11DAC1	18S16W11AAB1	18S16W10CDD1	18S16W12ACB1	18S16W28BBB1	18S17W22BDD1	18S18W11ACD2	19S10W16CBC1	19S11W23ACA1	19S11W25AAA1	19S12W13AAA1
County	Union																																							

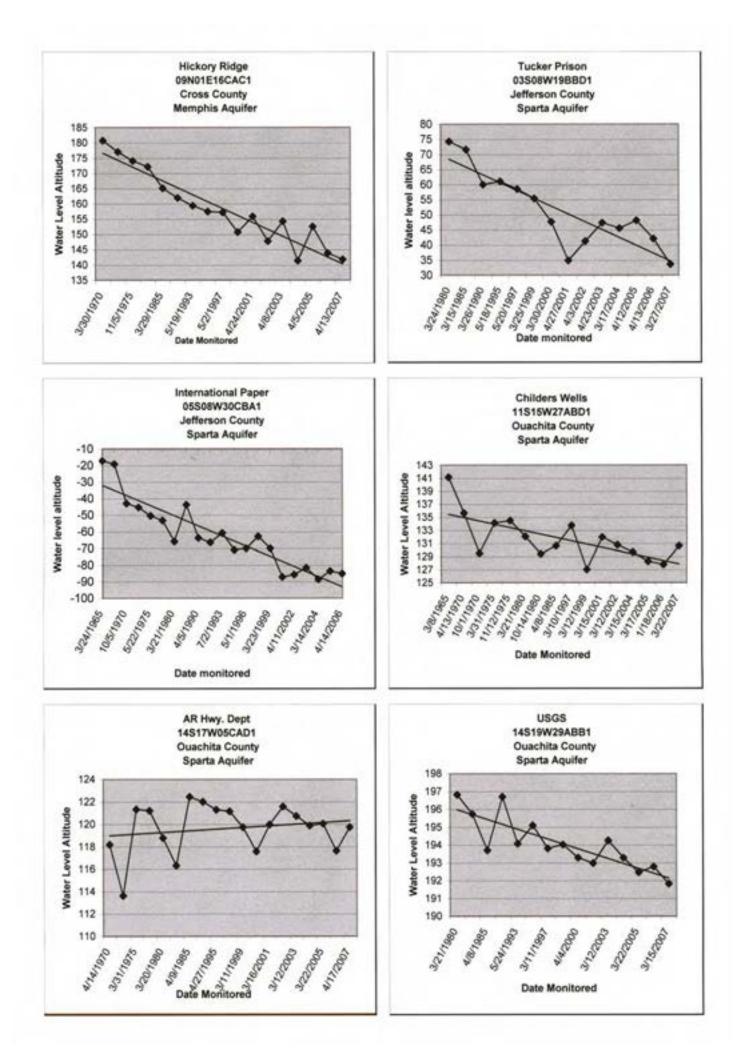
10-16	Change	-7.19	-12.19	-24.21		13/25	3.49		-6.55	-1.11								134/179	-7.20	74.8%	
02-07	Change	-2.68		-6.97		11/32	16.04	-3.20	-1.86	-1.94			4.74			4/4	-2.94	127/219	0.52	57.9%	
10-90	Change	-1.68	4.35	0.93		5/37	6.59	-9.40	-1.01	-1.69	2.19	-1.58	-2.64	-1.96		6/7	-2.30	145/260	-0.06	55.7%	
WL ALT	1997	124.61	-47.96	75.14	100	::	ge:		169.19	177.87						18:	ge:	Vells:	ange:		
WL ALT	2002	120.10		57.90		Declines/Wells:	Average Change:	154.20	164.50	178.70			158.80			Declines/Wells:	Average Change:	Total Declines/ Wells:	Total Average Change:		
WL ALT	2006	119.10	-64.50	50.00		De	Ave	160.40	163.65	178.45	141.35	145.20	156.70	152.10		ð	Ave	Total	Total /		
WLALT	2007	117.42	-60.15	50.93				151.00	162.64	176.76	143.54	143.62	154.06	150.14	178.17						
07 WL	Meas	70.58	235.15	192.07				60.00	47.36	16.24	68.46	68.38	67.94	74.86	33.83						
M	Date	3/7/2007	3/7/2007	2/20/2007				4/19/2007	4/17/2007	4/17/2007	4/17/2007	4/17/2007	4/17/2007	4/17/2007	4/17/2007						
LSD	Alt	188.00	175.00	243.00				211.00	210.00	193.00	212.00	212.00	222.00	225.00	212.00						
	Longitude	923645.01	924325.54	925607.90				910407.19	910727.11	911455.9	910255	910246.74	910326.17	910310	911004.14						
	Latitude	330534,81	330108,86	330451.70				350425.81	350310.68	350026.9	350851	350827.39	351441.58	351932	351725.76						
	Station	19S15W01CCA1	19S16W35DDC1	19S18W14ADA1				05N01W11ABA1	05N01W17DBB1	05N02W31DCB3	06N01W13ABA1	06N01W13ADC1	07N01W12BCB1	08N01W12CDA1	08N02W26ADC1						
	County	Union	Union	Union				Woodruff	Woodruff	Woodruff	Woodruff	Woodruff	Woodnutt	Woodnuff	Woodruff						

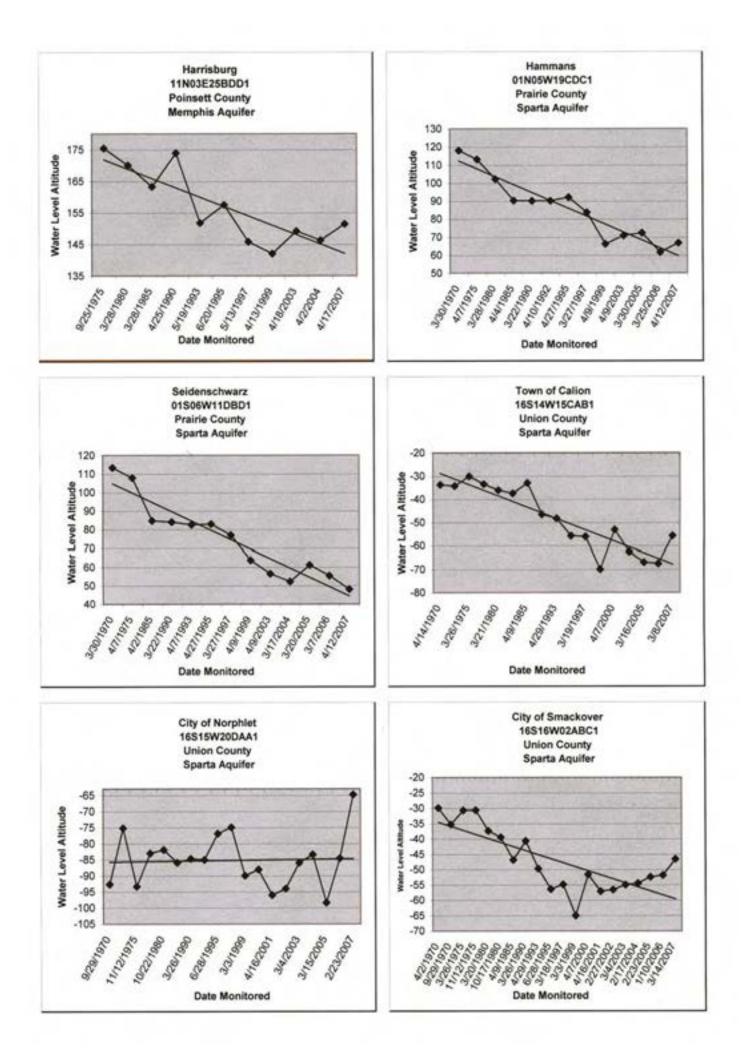
Appendix D

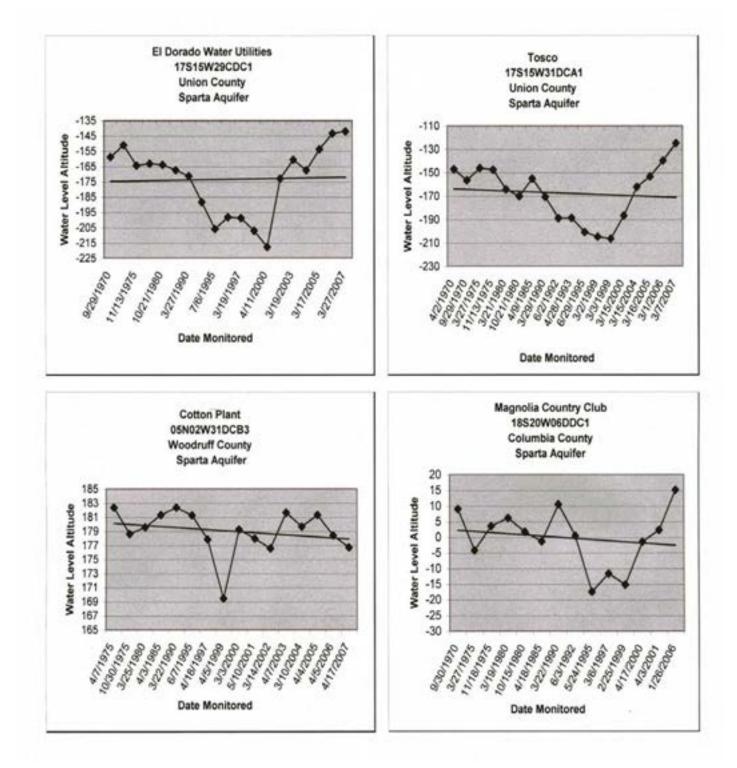
Selected Sparta/Memphis Aquifer Well Hydrographs











<u>Appendix E</u>

Comparative Table of Selected Spring/Fall Water Level Changes

WL Changes on	Alluvial Wells	2007
Spring/Fall	Selected	

Station ID	Latitude	Lonaitude	1 SA	Date	Depth To	M	Date	Depth	M	Spring/Fall
				Measured	Water	Alt. Spring '07	Measured	to Water	Alt. Fait '07	07 Change
	342553	912251	196.00	3/20/2007	99.71	96.29	10/17/2007	100.49	95.51	-0.78
-	342630		211.00	3/20/2007	107.40	103.60	10/17/2007	107.09	103.91	0.31
-	341835		197.00	4/19/2007	105.50	91.50	9/28/2007	106.40	90.60	-0.90
05S03W09CBA1	341624		196.00	3/22/2007	113.19	82.81	10/17/2007	115.42	80.58	-2.23
H	340740	912115	180.00	4/17/2007	56.14	123.86	10/17/2007	60.96	119.04	-4.82
-										1 00
-							Avg. Change:			-1.68
+	331529	913347	122.00	4/17/2007	18.00	104.00	9/21/2007	18.00	104.00	0.00
+-	330651	912941	103.00	4/17/2007	29.00	74.00	9/21/2007	31.00	72.00	-2.00
+	330816	915337	118.00	4/17/2007	25.00	93.00	9/21/2007	29.00	89.00	-4.00
+	330712		125.00	4/17/2007	22.00	103.00	9/21/2007	26.00	99.00	-4.00
t	330314		107.00	4/17/2007	31.00	76.00	9/21/2007	34.00	73.00	-3.00
-	330139	913615	107.00	4/17/2007	24.00	83.00	9/21/2007	29.00	78.00	-5.00
19S05W08ACA1	330405		111.00	4/17/2007	17.00	94.00	9/21/2007	19.00	92.00	-2.00
19S05W16ABB1	330323	913718	116.00	4/17/2007	26.00	90.00	9/21/2007	29.00	87.00	-3.00
							Avg. Change:			-2.88
13S03W27AA1	333253	912310	138.00	4/12/2007	46.00	92.00	9/10/2007	48.00	90.00	-2.00
14S02W18BBA1	332859	912038	130.00	4/12/2007	36.00	94.00	9/11/2007	35.00	95.00	1.00
14S02W09BDD1	332859	911729	133,00	4/16/2007	31.00	102.00	9/12/2007	30.00	103.00	1.00
15S03W18BBB1	332226	911919.83	125.00	4/5/2007	37.00	88.00	9/12/2007	42.00	83.00	-5.00
	332226.59	911919.83	110.00	4/16/2007	30.00	80.00	9/10/2007	33.00	77.00	-3.00
t	331257	912736	117.00	4/5/2007	34.00	83.00	9/19/2007	37.00	80.00	-3.00
18S01W33BDA1	330543	911245	115.00	4/5/2007	16.00	89.00	9/19/2007	18.00	97.00	-2.00
+							Avg. Change:			-1.86
t										1000
t	362450	904214	290.00	4/26/2007	18.00	272.00	10/29/2007	24.00	266.00	-6.00
21N04E09DBC1	362828	903853	291.00	_	9.50	281.50	10/29/2007	15.50	275.50	-6.00
t	362425	903725	290.00		14.60	275.40	10/29/2007	19.20	270.80	-4.60
20N06E28CCD1	362005	902630	290.00	4/26/2007	18.00	272.00	10/29/2007	33.10	256.90	-15.10
t	362327	902620	290.00	4/26/2007	20.00	270.00	10/29/2007	33.70	256.30	-13.70
21N07E01DDC1	362835	901607	303.00	4/26/2007	20.00	283.00	10/29/2007	34.00	269.00	-14.00
19N08E08DCA1	361729	901402	270.00		4.80	265.20	10/29/2007	8.00	262.00	-3.20
19N07E25BCB1	361519	901700	268.00	4/25/2007	17.00	251.00	10/29/2007	20.00	248.00	-3.00
t				l						

Spring/Fall	07 Change	-9,80	-4.00	-12.90	-4.80	-4.00	-2.60	-15.00	-7.00	-8.90	-4.60	-5.50	6.30	-6.10	-8.00	-5.20	-6.65	0 10	-3.70	-1.40	-1.00	-1.00	-1.70	-2.30	-3.00	-5.60	-1.00	-3.80	3.90	-0.20	00.00	-3.10	-0.90	-4.00	-5.70	-9.00	-1.90	
M	Alt. Fall '07	263.00	258.90	277.10	255.60	263.00	249.00	249.80	277.00	270.90	261.60	251.90	265.30	261.40	275.00	258.00			172.05	223.60	207.00	222.00	202.20	177.20	212.20	188.40	157.00	182.50	194.80	167.20	207.00	195.00	197.10	158.80	170.80	132.50	174.10	
Depth	to Water	16.00	31.10	30.90	41.40	12.00	10.00	39.20	19.00	13.10	21.40	27.10	14.70	26.60	13.00	12.00			82.95	11.40	22.00	17.00	27.80	77.80	37.80	57.60	94.00	57.50	56.20	81.80	14.00	30.00	51.90	91.20	69.20	117.50	70.90	
Date	Measured	10/29/2007	10/29/2007	10/29/2007	10/29/2007	10/29/2007	10/29/2007	10/29/2007	10/29/2007	10/29/2007	10/29/2007	10/29/2007	10/29/2007	10/29/2007	10/29/2007	10/29/2007	Avg. Change:		9/11/2007	10/3/2007	10/2/2007	10/3/2007	10/1/2007	10/1/2007	10/1/2007	10/1/2007	10/1/2007	10/1/2007	10/1/2007	10/2/2007	10/3/2007	10/2/2007	10/1/2007	10/1/2007	10/1/2007	10/2/2007	10/1/2007	
ML	Alt. Spring '07	272.80	262.90	290.00	260.40	267.00	251.60	264.80	284.00	279.80	266.20	257.40	259.00	267.50	283.00	263.20			175.75	225.00	208.00	223.00	203.90	179.50	215.20	194.00	158.00	186.30	190.90	167.40	207.00	198.10	198.00	162.80	176.50	141.50	176.00	
Depth to	Water	6.20	27.10	18.00	36.60	8.00	7.40	24.20	12.00	4.20	16.80	21.60	21.00	20.50	5.00	6.80			79.25	10.00	21.00	16.00	26.10	75.50	34.80	52.00	93.00	53.70	60.10	81.60	14.00	26.90	51.00	87.20	63.50	108.50	69.00	-
Date	Measured	4/25/2007	4/25/2007	4/25/2007	4/26/2007	4/25/2007	4/25/2007	4/26/2007	4/26/2007	4/25/2007	4/26/2007	4/26/2007	4/26/2007	4/26/2007	4/26/2007	4/25/2007			3/27/2007	3/14/2007	3/14/2007	3/14/2007	3/16/2007	3/13/2007	3/14/2007	3/13/2007	3/13/2007	3/13/2007	3/13/2007	3/14/2007	3/14/2007	3/14/2007	3/13/2007	3/13/2007	3/13/2007	3/14/2007	3/13/2007	
LSA		279.00	290.00	308.00	297.00	275.00	259.00	289.00	296.00	284.00	283.00	279.00	280.00	288.00	288.00	270.00			255.00	235.00	229.00	239.00	230.00	255.00	250.00	246.00	251.00	240.00	251.00	249.00	221.00	225.00	249.00	250.00	240.00	250.00	245.00	a second second
Longitude		900642	903132	901211	902815	901220	901117	903152	902421	900851	903454	904125	903621	904225	903132	900628			905125	901934	903547	902706	903857	905044	904930	905828	905032	905753	910121	904434	901837	903829	905816	905129	905945	904652	905800	and a second sec
Latitude		362306	362118	362842	361642	362111	361253	361716	362839	362447	362003	361649	361805	362112	362704	361904			354918	355622	354637	355744	354521	354852	355626	355204	354731	354739	354817	354419	354233	354340	355246	354733	354434	354322	353832	- mannon
Station ID		20N09E09ABC1	20N05E22CAD1	21N08E03CD1	19N06E18DBC1	20N08E22BDC1	18N08E11BAA1	19N05E15BBD1	21N06E11BBB1	21N09E31BDA1	20N05E30CAC1	19N04E19BAA1	19N04E11DAA1	20N03E25BA	21N05E22BAB1	20N09E33DDC1			14N02E27AA	15N07E10DAB1	13N05E06DCC1	15N06E04BAD1	13N04E15DBA1	14N02E15DD1	15N02E12DCB1	14N01E10BAB1	13N02E02AAB1	13N01E03AAA1	14N01E31DCA1	13N03E23CDA1	13N07E35BCD1	13N04E26BCC1	14N01E03ACB1	13N02E03AAA1	13N01E21CAB1	13N03E28CDB1	13N01E26BC1	100M LEAVON 1
County		Clay	Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clav	Clay			Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Craighead	Crainhead	La strutteres -

#### Spring/Fall WL Changes on Selected Alluvial Wells 2007

Spring/Fa	20 20.			00'00		0 -1.40	0 0.70		0 -2.50	17 67		0 -2.70		-3.90	-	-	4.00	+	+	-2.60	+	+	+	0977- 0/	-2.23	-2.00	-	-	-3.00				-3.50	+	
M	Alt. Fall	222.00	215.10	216.0	212.50	210.8	215.3	151.00	208.50			181.80	187.02			180.10	-	+	-	+	+	+	180.00	190.70		134.00	-	-	162.00			-	+	133.00	
Depth	to Water	38.00	14.90	14.00	12.50	14.20	10.70	98.00	11.50			33.20	33.98	29.60	24.30	34.90	21.60	25.90	36.11	38.60	40.60	22.60	34.50	32.30		88.00	82.00	38.50	43.00	74.00	74.00	76.50	88.50	85.00	-
Date	Measured	10/3/2007	10/2/2007	10/3/2007	10/3/2007	10/2/2007	10/3/2007	10/2/2007	10/3/2007	ALL CLARK	Avg. cnange.	10/19/2007	9/12/2007	10/19/2007	10/25/2007	10/19/2007	10/25/2007	10/25/2007	10/19/2007	10/25/2007	10/25/2007	10/19/2007	10/19/2007	10/19/2007	Avg. Change:	10/20/2007	10/29/2007	10/30/2007	10/30/2007	10/29/2007	10/27/2007	10/27/2007	10/29/2007	10/29/2007	and the second s
ML	Alt Spring '07	224.80	217.00	216.00	220.00	212.20	214.60	156.00	211.00			184.50	189.76	188.30	182.70	180.80	187.40	181.50	192.50	177.00	169.20	190.00	187.90	193.20		136.00	154.50	169.00	165.00	141.00	146.00	146.00	140.00	135.50	
Depth To	Water.	35.20	13.00	14.00	5.00	12.80	11.40	93.00	9.00			30.50	31.24	25.70	22.30	34.20	17.60	24.50	32.50	36.00	40.80	21.00	33.10	29.80		0100	00.60	36.00	40.00	74.00	74.00	74.00	85.00	82.50	
Date	Measured	3/14/2007	3/14/2007	3/14/2007	3/14/2007	3/14/2007	3/14/2007	3/13/2007	3/14/2007			3/21/2007	4/6/2007	3/21/2007	3/20/2007	3/21/2007	3/20/2007	3/20/2007	3/20/2007	3/21/2007	3/21/2007	3/20/2007	3/21/2007	3/21/2007		FOOD COLOR	2002/000	514012007	5/10/2007	5/8/2007	5/8/2007	5/4/2007	5/4/2007	5/4/2007	
1 SA		260.00	_	_	_	_	_	_	220.00			215.00	221.00	214.00	205.00	215.00	205.00	206.00	225.00	213.00	210.00	211.00	221.00	223.00		00000	200.00	205.00	205.00	215.00	220.00	220.00	225.00	218.00	
I onoitude		903241	903202	001831	00158	QUADAS	001001	COMAD1	902743			900146	001033	901608	901807.57	902408	902028	902138	901905	902445	902923	902138	902326.57	901644		001000	90102	204906	002202	910726	910152	905140	905205	904623	
1 attitude		355513	RAGAR	SEADER	264716	364461	25AGAD	254208	354421			364640	361630	352501	350849.58	352021	350010	350410	352537	351227	351227	351525	352159.85	352103			350923	350834	351040	351550	351532	351544	351455	351959	
Ctation ID		15ND6F22BAB1	12MDGEDDCCC1	***/DEFADDO	19107E05ABB1	10MOLECARACH	10NU0E24BAU	13NU/EUZUAB1	13N06E21AD1			DOMOTE SOLAA4	CONDESERTER	DANDREDRCCR1	06N07E13BAA1	08N06E01DCC1	05N07E34CDD1	05N07E09BCA1	09N07E02CDB1	07N06E24CCC1	07N06E30AAA1	07N08E04BDC1	09N07E31BAB1	08N08E06ABB1			06N02E11DDB1	06N02E12AA1	VONU4EUTUDDT	00100E0E0E01	07N01E06DCD1	07N02E02BBB1	07N02E10BBB1	07N02E15ACA1	
Construction	COURT	Crainhoad	Colohood	Craigheau	Craighead	Craigheau	Craignead	Craighead	Craighead	ANAL RUDIO		Contraction O	Crittenden	Critenden	Crittenden			Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross										

Spring/Fall	07 Change	4 07	18.1-	-3.00	-2.00	-4.50	-53.50	-3.00	-3,50	-1.50	-2.00	-13.50	-8.50	-1.00	-3.00	-1.50	-1.50	-2.00	-1.50	0.50	-2.50	-2.50	-3.00	-3.00	-3.00	-2.00	4.00	-2.55	-2.50	-2.00	101	D'f	0.00	00.00	1.00	8.00	6.00	0.00	4.00
M	Alt Fall 07		140.01	149.00	173.00	164.00	121.50	165.50	174.00	133.50	142.00	140.00	176.50	134.00	126.00	140.50	141.00	188.00	188.00	168.50	186.00	136.00	177.00	134.00	136.50	136.00	136.50	132.18	148.50	134.00			112.00	113.00	117.00	118.00	127.00	126.00	118.00
Depth	to Mater	OV VO	84.19	106.00	32.00	51.00	78.50	44.50	36.00	86.50	78.00	85.00	33.50	91.00	00'66	109.50	104.00	17.00	27.00	36.50	24.00	89.00	33.00	96.00	88.50	89.00	93.60	93.82	116.50	91.00			36.00	39.00	29.00	35.00	36.00	30.00	28.00
Date	Magainer	Damagail	9/11/2007	10/29/2007	10/29/2007	10/27/2007	10/30/2007	10/30/2007	10/30/2007	10/31/2007	10/27/2007	10/29/2007	10/27/2007	10/31/2007	10/29/2007	10/27/2007	10/29/2007	10/31/2007	10/29/2007	10/31/2007	10/29/2007	10/29/2007	10/27/2007	10/29/2007	10/31/2007	10/29/2007	10/29/2007	9/11/2007	10/27/2007	10/31/2007		Avg. Change:	9/20/2007	9/20/2007	9/20/2007	9/20/2007	9/20/2007	9/20/2007	9/20/2007
M			142.78	152.00	175.00	168.50	175.00	168.50	177.50	135.00	144.00	153.50	185.00	135.00	129.00	142.00	142.50	190.00	189.50	168.00	188.50	138.50	180.00	137.00	139.50	138.00	140.50	134.73	151.00	136.00			112.00	113.00	116.00	110.00	121.00	126.00	114.00
Totals To	Value of		82.22	103.00	30.00	46.50	25.00	41.50	32.50	85.00	76.00	71.50	25.00	90.00	96.00	108.00	102.50	15.00	25.50	37.00	21.50	86.50	30.00	93.00	85.50	87.00	89.50	91.27	114.00	89.00			36.00	39.00	30.00	43.00	42.00	30.00	32 00
Data	0000	Measured	3/20/2007	5/7/2007	5/7/2007	5/10/2007	5/10/2007	5/7/2007	5/10/2007	5/8/2007	5/8/2007	5/4/2007	5/10/2007	5/7/2007	5/7/2007	5/7/2007	5/7/2007	5/10/2007	5/10/2007	5/10/2007	5/10/2007	5/7/2007	5/10/2007	5/7/2007	5/7/2007	5/4/2007	5/4/2007	3/20/2007	5/7/2007	5/7/2007			4/3/2007	4/3/2007	4/3/2007	4/3/2007	APRICADO T	4/3/2007	4/3/2007
1 CA	HO1		225.00	255.00	205.00	215.00	200.00	210.00	210.00	220.00	220.00	225.00	210.00	225.00	225.00	250.00	245.00	205.00		205.00		225.00	210.00	230.00	225.00	225.00	230.00	226.00	265.00	225.00			148 00	152.00	146.00	163.00	162.00	156.00	146.00
The second s	Longitude		905113	904738	904021	904234	903908	903103	903347	GDEB01	910056	005421	903448	905913	905431	904529	004753	903742	903918	904041	903312	905605	903512.11	905414	905933	905354	905002	905653	904623	905551			011636	011066	011617	011000	1010010	011034	011010
The second s	appiner		351510	351548	351534	351457	351221	351600	361506	362045	361926	361704	351922	352617	352148	352619	CCPCSE	362662	362614	352205	362461	362166	352150.53	352333	351855	351923	351938	352505	351959	352243			SALARCE	226601	100000	00000	200000	335608	2000000
	Station IU		07N02E02CD	07N03E05DDA1	07N04E04DB81	07N04E07AAA1	NTNINE 27ADR1	07ND6ED2RA41	07NIDEEDORAA1	NONDERDDDC1	DONUTE17CAD1		ORNORF17AAC1	DOMOTEDAC DB1	DONIDE 228841	DOMOREDADICO	CONTREATION 4	DONINGENTACT	DONINGED TRAT	DONOAE32DRB1	DOMORE 100801	OMD1528AB1	NONDAF 22RDR1	DONDOF20AA1	DRND1F16DR1	DRMD7E17AA1	DRND2F12DCC1	DONDIE12BRC1	DRND3F09CAC1	9N02E30CBB1			44000000 EDADA	100001000001	100001AL0000	10202111/20201	1090/LM20S60	09204W02CDA1	190000010000
	County		Cross	Cross	Cross	Croce	Croce	Cross	Cross	Ciuse	Cross	Cross	Croce	0000	0000	Cross	Cicos	Cross	Cross	Cross	Cross	Cross	Cross	Croce	Cross	Cross	Cross	Croco	Croce	Cross				Desna	Desna	Desna	Desha	Desha	Desna

Spring/Fall WL Changes on Selected Alluvial Wells 2007

to Water Att. Fall 07 07 07 48.00 98.00 - 48.00 91.00 91.00 - 55.00 87.00 - 25.00 103.00 - 25.00 129.00 - 25.00 129.00 - 25.00 129.00 - 25.00 129.00 - 25.00 129.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 113.00 - 25.00 - 25.00 113.00 - 25.00 - 25.00 113.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00 - 25.00	to Water Att Fall 48.00 98.00 55.00 87.00 55.00 103.00 36.00 129.00 72.00 129.0 36.00 113.0 28.00 112.0 28.00 112.0	to Water         All. Fall 07           48.00         98.00           44.00         91.00           55.00         87.00           55.00         103.00           36.00         103.00           25.00         129.00           30.25         129.00           30.25         123.75           30.25         125.00           36.00         113.00           26.00         112.00           11.00         237.00	to Water         Att. Fail '07         07           48.00         98.00         98.00           44.00         91.00         91.00           55.00         87.00         103.00           36.00         103.00         129.00           25.00         129.00         129.00           30.25         123.75         200           72.00         113.00         28.00           30.25         125.00         1112.00           28.00         112.00         112.00           28.00         112.00         237.00           11.00         237.00         112.00	Io         Water         Att. Fail 07         07           48.00         98.00         -         -           48.00         91.00         93.00         -           55.00         87.00         103.00         -           36.00         103.00         103.00         -           25.00         129.00         -         -           30.25         123.75         -         -           72.00         135.00         -         -           28.00         113.00         -         -           28.00         112.00         -         -           28.00         112.00         -         -           11.00         237.00         112.00         -           11.00         237.00         -         -           30.21         216.90         -         -	Ito Water         Att. Fail 07         07           48.00         98.00         -           48.00         91.00         98.00           55.00         87.00         91.00           55.00         103.00         -           36.00         103.00         -           25.00         129.00         -           30.25         123.75         -           72.00         113.00         -           36.00         113.00         -           28.00         112.00         -           36.00         112.00         -           37.00         220.00         237.00           11.00         237.00         -           22.00         213.80         -           32.10         216.90         -           22.70         252.30         -	Ito Water         Att. Fail 07         07           48.00         98.00         44.00           55.00         91.00         91.00           55.00         91.00         91.00           55.00         103.00         103.00           36.00         103.00         103.00           25.00         129.00         135.00           72.00         135.00         135.00           72.00         113.00         135.00           28.00         113.00         135.00           28.00         113.00         237.00           30.25         125.00         244.80           17.20         216.90         216.90           22.10         252.30         254.90	Ito Water         All. Fall 07         07           48.00         98.00         98.00           44.00         91.00         98.00           55.00         87.00         97.00           55.00         103.00         103.00           25.00         129.00         129.00           25.00         129.00         125.00           72.00         112.00         135.00           72.00         112.00         135.00           72.00         112.00         125.00           72.00         112.00         125.00           28.00         112.00         28.00           11.00         237.00         125.00           28.00         112.00         244.80           17.20         244.80         254.90           22.10         255.30         214.00           23.10         255.30         214.00           23.10         255.30         214.00           38.90         214.00         214.00	Ito Water         Att. Fall 07         07           48.00         98.00         -           48.00         91.00         98.00           55.00         87.00         91.00           55.00         103.00         -           36.00         173.00         -           25.00         129.00         -           30.25         123.75         -           72.00         135.00         -           30.25         123.75         -           72.00         135.00         -           30.25         123.75         -           72.00         135.00         -           30.25         123.75         -           72.00         113.00         -           30.25         125.00         -           30.25         125.00         -           30.10         2112.00         -           32.10         27.10         254.90           33.90         214.00         -           35.40         231.60         -	Ito Water         Att. Fall 07         07           48.00         98.00         -           48.00         91.00         91.00           55.00         87.00         91.00           55.00         103.00         -           36.00         103.00         -           36.00         129.00         -           36.00         123.75         -           72.00         113.00         -           72.00         113.00         -           36.00         113.00         -           28.00         112.00         -           28.00         112.00         -           30.11         26.00         237.00           28.00         112.00         -           36.00         237.00         -           36.00         237.00         -           36.00         237.00         -           32.10         254.80         -           35.40         214.00         -           36.10         231.60         -           36.10         231.90         -	Ito Water         Att. Fail 07         07           48.00         98.00         -           48.00         91.00         98.00           55.00         87.00         91.00           55.00         87.00         -           36.00         103.00         -           36.00         103.00         -           25.00         129.00         -           30.25         123.75         -           72.00         135.00         -           72.00         113.00         -           30.25         123.75         -           72.00         113.00         -           30.25         123.75         -           72.00         113.00         -           30.25         123.75         -           72.00         112.00         -           30.10         234.00         -           32.10         254.90         -           38.90         214.00         -           38.40         231.90         -           38.40         231.90         -	Ito Water         Att. Fail 07         07           48.00         98.00         98.00           48.00         91.00         91.00           55.00         87.00         91.00           55.00         103.00         103.00           36.00         103.00         129.00           25.00         129.00         129.00           30.25         123.75         123.75           72.00         113.00         135.00           36.00         113.00         135.00           36.00         112.00         125.00           28.00         112.00         28.00           11.00         28.00         125.00           28.00         112.00         28.00           17.20         244.80         17.00           22.710         254.90         216.90           37.00         216.90         214.00           38.90         221.10         231.60           38.40         231.60         33.1.90           38.40         231.60         33.1.90           38.40         231.60         33.1.90           38.40         231.60         33.1.90           38.40         231.60	Ito Water         Att. Fail 07         07           48.00         98.00         -           55.00         87.00         98.00           55.00         87.00         -           36.00         103.00         -           36.00         103.00         -           25.00         129.00         -           36.00         129.00         -           25.00         125.00         -           30.25         123.75         -           30.25         123.75         -           30.25         123.00         -           30.25         125.00         -           30.25         125.00         -           30.25         125.00         -           30.25         135.00         -           30.25         135.00         -           30.00         112.00         -           30.10         256.00         -           31.00         256.30         -           32.10         256.30         -           33.90         214.00         -           35.40         214.00         -           36.10         231.60         -	Ito Water         Att. Fail 07         07           48.00         98.00         98.00           48.00         91.00         98.00           55.00         87.00         87.00           55.00         103.00         103.00           25.00         129.00         129.00           25.00         129.00         125.00           25.00         125.00         125.00           25.00         125.00         125.00           25.00         112.00         135.00           26.00         112.00         237.00           27.00         112.00         237.00           28.00         112.00         237.00           28.00         112.00         237.00           28.00         23.10         237.00           38.00         23.10         256.30           38.90         251.00         214.00           38.40         255.30         251.10           38.40         231.90         38.40           38.40         231.90         38.101           38.790         231.01         33.40           38.790         231.01         231.01           38.790         231.01         <	Ito Water         Att. Fail 07         07           48.00         98.00         98.00           48.00         91.00         91.00           55.00         87.00         91.00           55.00         103.00         103.00           55.00         129.00         129.00           25.00         129.00         129.00           25.00         125.00         125.00           25.00         113.00         135.00           72.00         113.00         135.00           72.00         112.00         135.00           30.25         123.75         123.75           72.00         112.00         28.00           36.00         112.00         28.00           36.00         112.00         28.00           37.10         27.10         27.10           27.10         254.90         36.00           35.40         231.60         36.10           36.10         231.00         214.00           37.00         231.01         36.00           36.10         231.00         231.01           36.00         231.01         231.01           36.00         231.01         234.	Ito Water         Att. Fail 07         07           48.00         98.00         98.00           48.00         91.00         91.00           55.00         91.00         91.00           55.00         103.00         103.00           55.00         129.00         129.00           25.00         129.00         125.00           30.25         123.75         123.75           72.00         113.00         135.00           30.25         123.75         123.75           72.00         135.00         135.00           36.00         112.00         28.00           72.00         112.00         28.00           36.00         112.00         28.00           36.00         214.00         27.10           27.10         254.90         27.10           37.00         214.00         38.40           38.90         221.10         231.60           38.40         231.60         38.10           38.40         231.60         38.10           38.40         231.60         38.10           38.40         231.60         38.10           38.00         231.00         38.10<	Ito Water         Att. Fail 07         07           48.00         98.00         98.00           55.00         91.00         98.00           55.00         87.00         98.00           55.00         103.00         103.00           55.00         103.00         129.00           25.00         129.00         125.00           25.00         125.00         125.00           25.00         125.00         125.00           25.00         125.00         125.00           25.00         113.00         237.00           26.00         112.00         237.00           27.10         254.90         125.00           27.10         254.90         274.00           38.90         254.90         274.00           38.40         254.90         254.90           38.40         255.20         331.90           38.40         255.20         331.90           38.40         231.01         335.40           38.40         231.01         234.90           38.10         234.90         36.10           36.00         234.90         36.10           36.00         234.90 <t< th=""><th>Ito Water         Att. Fail 07         07           48.00         98.00         98.00           55.00         91.00         91.00           55.00         91.00         91.00           55.00         103.00         103.00           55.00         103.00         103.00           25.00         129.00         129.00           25.00         125.00         125.00           72.00         113.00         135.00           30.25         123.75         135.00           72.00         112.00         135.00           36.00         113.00         28.00           37.00         112.00         28.00           36.00         112.00         28.00           37.10         27.10         27.10           27.10         254.90         214.00           35.40         231.60         36.10           36.10         231.01         231.01           37.00         214.00         36.10           36.10         231.01         231.01           36.10         231.01         231.01           36.10         231.01         231.01           36.00         231.01         231</th><th>Ito Water         Att. Fail 07         07           48.00         98.00         98.00           48.00         91.00         91.00           55.00         87.00         91.00           55.00         103.00         103.00           55.00         129.00         129.00           30.25         123.75         123.75           72.00         135.00         135.00           30.25         123.75         135.00           72.00         113.00         135.00           36.00         113.00         237.00           28.00         112.00         24.480           17.20         24.480         112.00           28.00         112.00         237.00           37.10         24.480         123.00           37.10         254.90         214.00           37.10         254.90         214.00           38.90         221.10         231.90           38.40         231.90         331.90           38.10         231.90         314.00           38.10         231.01         314.00           38.10         231.01         314.00           38.10         231.01</th></t<>	Ito Water         Att. Fail 07         07           48.00         98.00         98.00           55.00         91.00         91.00           55.00         91.00         91.00           55.00         103.00         103.00           55.00         103.00         103.00           25.00         129.00         129.00           25.00         125.00         125.00           72.00         113.00         135.00           30.25         123.75         135.00           72.00         112.00         135.00           36.00         113.00         28.00           37.00         112.00         28.00           36.00         112.00         28.00           37.10         27.10         27.10           27.10         254.90         214.00           35.40         231.60         36.10           36.10         231.01         231.01           37.00         214.00         36.10           36.10         231.01         231.01           36.10         231.01         231.01           36.10         231.01         231.01           36.00         231.01         231	Ito Water         Att. Fail 07         07           48.00         98.00         98.00           48.00         91.00         91.00           55.00         87.00         91.00           55.00         103.00         103.00           55.00         129.00         129.00           30.25         123.75         123.75           72.00         135.00         135.00           30.25         123.75         135.00           72.00         113.00         135.00           36.00         113.00         237.00           28.00         112.00         24.480           17.20         24.480         112.00           28.00         112.00         237.00           37.10         24.480         123.00           37.10         254.90         214.00           37.10         254.90         214.00           38.90         221.10         231.90           38.40         231.90         331.90           38.10         231.90         314.00           38.10         231.01         314.00           38.10         231.01         314.00           38.10         231.01
48.00 55.00 36.00 25.00 25.00 72.00 36.00	48.00 55.00 36.00 25.00 25.00 25.00 72.00 36.00 28.00 28.00	48.00 55.00 36.00 25.00 25.00 36.00 28.00 28.00 11.00	48.00 55.00 55.00 36.00 25.00 25.00 72.00 36.00 28.00 28.00 11.00 43.20	48.00 55.00 55.00 36.00 25.00 25.00 72.00 36.00 28.00 28.00 11.00 17.20 32.10	48.00 55.00 55.00 36.00 25.00 25.00 25.00 20.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 228.00 200 200 200 200 200 200 200 200 200	48.00 55.00 55.00 36.00 25.00 25.00 25.00 20.25 30.25 30.25 30.25 36.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 22.10 22.70 22.70	48.00 55.00 55.00 36.00 25.00 25.00 25.00 25.00 25.00 25.00 172.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 38.00 332.10 332.10 332.10 338.90	48.00 55.00 55.00 36.00 25.00 25.00 25.00 20.00 28.00 28.00 11.00 11.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 38.90 33.40	48.00 55.00 55.00 36.00 25.00 25.00 25.00 36.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 38.00 38.90 38.90 36.10 36.10	48.00 55.00 55.00 36.00 25.00 25.00 25.00 25.00 25.00 36.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 38.40 38.40	48.00 55.00 55.00 36.00 25.00 25.00 25.00 25.00 20.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 38.40 38.40 38.40 38.40 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 50.00 55.00 50.00 50.00	48.00 55.00 55.00 36.00 25.00 25.00 25.00 25.00 25.00 25.00 36.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 36.10 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 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35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40 35.40	48.00 55.00 55.00 36.00 25.00 25.00 25.00 25.00 25.00 36.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 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256.00 261.00 261.00 261.00 261.00 261.00 261.00 261.00 275.00 261.00 261.00 261.00 261.00 271.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 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277.0000	145.00 140.00 2557.00 2557.00 2557.00 266.00 266.00 266.00 267.00 267.00 267.00 267.00 267.00 271.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 277.00 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262.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         262.00           902105         248.00           902105         262.00           902105         262.00           902105         262.00           90234         275.00           903102         282.00           903102         282.00           903102         266.00           9033551         267.00           904556         260.00           904556         266.00           902546         268.00	913034         145.00           912944         140.00           912944         140.00           901745         248.00           902105         257.00           902105         262.00           902105         262.00           902105         262.00           902105         262.00           902105         260.00           902705         249.00           902105         267.00           902705         260.00           902651         261.00           902651         261.00           902566         260.00           902566         267.00           904750         257.00	913034         145.00           912944         140.00           912944         140.00           901745         248.00           902105         267.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         249.00           902105         249.00           902105         262.00           902105         262.00           902651         260.00           903102         282.00           904551         261.00           904547         258.00           904547         258.00	913034         145.00           912944         140.00           912944         140.00           901745         248.00           901745         248.00           902105         249.00           902105         249.00           902105         249.00           902105         249.00           902105         249.00           902105         249.00           902105         249.00           902105         262.00           902651         261.00           902651         261.00           902651         261.00           902651         267.00           9026546         268.00           904547         258.00           904547         258.00           904547         258.00	913034         145.00           912944         140.00           912944         140.00           901745         248.00           902105         257.00           902105         248.00           902105         248.00           902105         248.00           902105         262.00           902105         262.00           902105         262.00           902105         266.00           902105         267.00           902651         261.00           902651         261.00           904626         268.00           904546         268.00           904547         258.00           904547         258.00           904547         258.00           904547         258.00           904547         258.00           904547         258.00           904547         258.00           903917         319.00           903917         319.00	913034         145.00           912944         140.00           912944         140.00           901745         248.00           902105         267.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         249.00           902105         249.00           902105         249.00           902105         249.00           902105         262.00           9024651         261.00           903302         2651.00           904352         267.00           904352         267.00           904352         267.00           904352         267.00           904352         267.00           904352         267.00           904353         271.00           904234         271.00           904234         271.00           903817         319.00           903854         273.00	913034         145.00           912944         140.00           912944         140.00           901745         248.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         246.00           902105         246.00           902105         246.00           9023102         282.00           904356         267.00           904547         258.00           904254         257.00           903317         319.00           9033554         271.00           9033554         271.00           9033554         271.00           9033554         2756.00	913034         145.00           912944         140.00           912944         140.00           901745         248.00           901745         248.00           902105         257.00           902105         249.00           902105         249.00           902105         249.00           902105         249.00           902105         267.00           902105         266.00           902105         266.00           902651         261.00           902651         261.00           902651         267.00           902651         267.00           902651         267.00           902546         267.00           902546         267.00           902546         267.00           902546         267.00           902546         267.00           902546         267.00           902552         257.00           903557         271.00           903854         271.00           903854         277.00           903854         277.00           902357         277.00	913034         145.00           912944         140.00           912944         140.00           901745         248.00           902105         257.00           902105         262.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         248.00           902105         249.00           902105         262.00           902105         262.00           902405         262.00           903505         267.00           904352         267.00           904352         267.00           904352         267.00           904354         271.00           904355         271.00           904355         271.00           903917         219.00           903854         271.00           903855         271.00           903855         276.00           902357         276.00           902357         276.00           902357         277.00	913034         145.00           912944         140.00           912944         140.00           901745         248.00           902105         249.00           902105         249.00           902105         249.00           902105         249.00           902105         249.00           902105         249.00           902105         249.00           902105         249.00           902105         249.00           902105         260.00           902105         249.00           902105         260.00           902105         249.00           902105         260.00           902105         260.00           9023102         282.00           9024546         267.00           904355         267.00           904354         257.00           904234         271.00           9033654         271.00           9033654         277.00           902357         277.00           902357         277.00           902357         277.00
	333039	333039 360822	333039 912944 350822 901745 355926 904722	333039 912944 350822 901745 360822 901745 355926 904722 361203 902105	333039 912944 350822 901745 355926 904722 355926 904722 361203 902105 360031 902705 361317 902034	333039 912944 360822 901745 355926 904722 355926 904722 361203 902105 36031 902705 361317 902034 361437 903102	333039         912944           333039         912944           360822         901745           360822         901745           360822         901745           36031         902105           361317         902705           361317         902034           361317         902034           361317         902035           361317         902036           361317         902035           361437         902055           360215         902651           360427         9036551	333039         912944         140.00           333039         912944         140.00           360822         901745         248.00           355926         904722         257.00           355926         904722         262.00           360031         902105         262.00           361203         902105         248.00           361203         902105         262.00           361317         902705         249.00           361317         902105         262.00           361317         902705         249.00           361317         902705         262.00           361437         902105         262.00           360215         903651         261.00           360422         9034626         260.00           360422         904626         260.00           360806         904352         267.00	333039         912944         140.00           35926         901745         248.00           355926         901745         248.00           355926         904722         257.00           361203         902105         262.00           361317         902705         249.00           361317         902105         262.00           361317         902705         249.00           361317         902105         262.00           361317         902705         249.00           36031         902705         249.00           36031         902705         249.00           361317         902705         249.00           361317         902705         249.00           361317         902705         249.00           36031         902705         260.00           360425         903651         261.00           360425         904626         260.00           360631         902546         268.00	333039         912944         140.00           355926         901745         248.00           360822         901745         248.00           355926         904722         257.00           360821         902105         249.00           361203         902105         249.00           361317         902034         2765.00           361317         902034         275.00           361317         902034         2765.00           361317         902034         2765.00           361317         902034         2765.00           361437         903102         282.00           360425         9034626         260.00           360806         904352         267.00           360631         902546         268.00           360631         902546         268.00           360631         904750         257.00           360316         904750         268.00	333039         912944         140.00           355926         901745         248.00           355926         904722         257.00           361203         902105         262.00           361203         902705         249.00           361203         902705         249.00           361203         902705         262.00           361317         902705         249.00           361317         902705         249.00           361317         902705         262.00           361317         902705         249.00           361317         902705         260.00           361317         902705         262.00           360316         902651         261.00           360425         903651         261.00           360806         904362         267.00           360316         902546         268.00           360316         904547         258.00           360049         904547         258.00           360049         904547         258.00	333039     912944     140.00       333039     912944     140.00       360822     901745     248.00       360822     901745     248.00       361203     902105     262.00       361317     902105     262.00       361317     902705     249.00       361317     902034     275.00       361317     902034     275.00       361437     902105     282.00       36031     902651     260.00       360422     904626     260.00       360806     904352     267.00       360316     902646     267.00       360816     904567     267.00       360712     902452     267.00       360712     904750     257.00       360712     904129     271.00	333039     912944     140.00       355926     901745     248.00       360822     901745     248.00       360822     904722     257.00       361203     902105     262.00       361317     902705     249.00       361317     902705     249.00       361317     902705     262.00       361317     902034     275.00       361317     902651     261.00       361317     902651     267.00       36031     902705     282.00       361317     902705     282.00       361317     902705     267.00       361317     902651     261.00       360316     903102     287.00       360431     902546     268.00       360631     904567     258.00       360431     904547     258.00       360431     903917     319.00       360431     903917     319.00       360431     903917     319.00	333039     912944     140.00       333039     912944     140.00       360822     901745     248.00       355926     904722     257.00       361203     902105     262.00       361317     902105     262.00       361317     902105     248.00       361317     902105     262.00       361317     902105     262.00       361317     902105     262.00       36031     902705     249.00       36031     902705     262.00       36031     902705     262.00       36031     902705     267.00       360316     904352     267.00       360316     904352     267.00       360316     904352     267.00       360316     904352     267.00       360316     904352     267.00       360316     904352     267.00       360316     904352     267.00       360316     904352     267.00       360316     904352     271.00       36043     904234     271.00       36043     904234     271.00       361141     903817     319.00       361364     903864     273.00	333039         912944         140.00           355926         901745         248.00           360822         901745         248.00           361822         901745         248.00           361203         902105         267.00           361317         902105         262.00           361317         902105         262.00           361317         902105         262.00           361317         902105         262.00           361317         902105         260.00           361317         902105         260.00           361317         902105         260.00           36031         902705         282.00           360422         903102         282.00           3604215         902651         261.00           360422         904352         267.00           3604216         904364         257.00           360316         904354         257.00           360316         904750         258.00           360712         903917         319.00           361141         903917         319.00           361356         903854         271.00           361346	333039         912944         140.00           355926         901745         248.00           360822         901745         248.00           355926         904722         257.00           361203         902105         249.00           361317         902105         249.00           361317         902034         276.00           361317         902034         276.00           361317         902034         276.00           361437         902105         282.00           361317         902034         276.00           361437         902135         286.00           360422         903102         286.00           3604215         902651         261.00           360431         902546         267.00           3606316         904750         257.00           3606316         904750         257.00           360316         904750         258.00           360316         904750         257.00           360317         903917         319.00           361346         904546         267.00           361346         904534         271.00           361346	333039         912944         140.00           355926         901745         248.00           355926         901745         248.00           355926         904722         257.00           361203         902105         262.00           361317         902105         249.00           361317         902105         262.00           361317         902105         248.00           361317         902105         262.00           361317         902105         262.00           361317         902105         266.00           361317         902105         266.00           360316         902651         261.00           360425         902651         261.00           360412         902651         261.00           360412         902651         261.00           360316         904362         267.00           360316         904354         271.00           360316         904547         258.00           360316         904534         271.00           360316         904534         271.00           361356         903854         273.00           361366         <	333039         912944         140.00           355926         901745         248.00           360822         901745         248.00           355926         904722         257.00           361203         902105         262.00           361317         902105         249.00           361317         902105         262.00           361317         902705         249.00           361317         902034         275.00           361317         902034         275.00           361437         903102         282.00           361317         902651         260.00           360422         904352         267.00           3604215         902651         267.00           360422         904352         257.00           360431         902546         267.00           360431         902545         257.00           360316         904355         257.00           360317         903357         258.00           360431         903354         271.00           361141         9033557         277.00           361056         902357         277.00           361056

/Fall WL Changes on	2007 2007
Spring/Fal	Selected

Contral	5	10	-3,10	-1.60	9.00	-3.40	-4.20	3.00	-3.40	2.20	-2.70	-3.60	4.00	4.20	-3.30	-0.41	-4.80	-7.50	-2.00	-0.50	2.50	1.80	-4.00	-2.07	-2.07	-2.07	-2.07 -3.03 -3.20	-2.07 -3.03 -3.20 -4.00	-2.07 -3.03 -3.20 -4.00 -3.80	-2.07 -3.03 -3.20 -4.00 -3.80 -2.80	-2.07 -3.03 -3.20 -4.00 -4.00 -4.30	-2.07 -3.03 -3.03 -3.20 -4.00 -3.80 -3.80 -4.30 -10.20	-2.07 -3.03 -3.03 -3.20 -4.00 -3.80 -3.80 -3.80 -10.20	-2.07 -3.03 -3.03 -3.20 -4.00 -4.00 -4.80 -10.20 -10.20	-2.07 -3.03 -3.03 -3.20 -4.00 -3.80 -3.80 -3.80 -4.00 -10.20 -10.20
16.01	INA	Alt. Fall '07	198.60	214.40	223.00	218.60	190.80	189.00	160.40	163.00	191.30	220.80	177.50	199.00	199.60		196.50	189.00	190.00	180.50	186.50	155.00	174.50			198.72	198.72 201.50	198.72 201.50 203.30	198.72 201.50 203.30 223.90	198.72 201.50 203.30 223.90 242.20	198.72 201.50 203.30 223.90 242.20 239.50	198.72 201.50 203.30 223.90 223.90 242.20 239.50 228.70	198.72 201.50 203.30 223.90 223.90 242.20 239.50 228.70	198.72 201.50 203.30 223.90 242.20 239.50 239.50 228.70	198.72 201.50 203.30 223.90 223.90 242.20 239.50 228.70 228.70
The second s	Deptin	to Water	46.40	37.60	23.00	31.40	30.20	31.00	62.60	64.00	35.70	20.20	40.50	34,00	24.40		18,50	26.00	22.00	43.50	27.50	30.00	20.50			55.28	55.28 57.50	55.28 57.50 51.70	55.28 57.50 51.70 46.10	55.28 57.50 51.70 48.10 17.80	55.28 57.50 51.70 46.10 17.80 17.50	55.28 57.50 51.70 46.10 17.80 17.50 26.30	55.28 57.50 51.70 46.10 17.80 26.30 26.30	55.28 57.50 51.70 48.10 17.80 26.30	55.28 57.50 51.70 46.10 17.80 26.30 26.30
and a second	Date	Measured	10/17/2007	10/23/2007	10/23/2007	10/23/2007	10/23/2007	10/23/2007	10/23/2007	10/23/2007	10/23/2007	10/17/2007	10/23/2007	10/23/2007	10/23/2007	Avg. Change:	9/14/2007	9/14/2007	9/14/2007	9/14/2007	9/14/2007	9/14/2007	9/14/2007	Aun Change	Avg. Change:	Avg. Change: 9/12/2007	Avg. Change: 9/12/2007 9/12/2007	Avg. Change: 9/12/2007 9/12/2007 10/1/2007	Avg. Change: 9/12/2007 9/12/2007 10/1/2007 10/1/2007	Avg. Change: 9/12/2007 9/12/2007 10/1/2007 10/1/2007 10/1/2007	Avg. Change: 9/12/2007 9/12/2007 10/1/2007 10/1/2007 10/1/2007 10/1/2007	Avg. Change: 9/12/2007 9/12/2007 10/1/2007 10/1/2007 10/1/2007 10/1/2007 10/1/2007	Avg. Change: 9/12/2007 9/12/2007 10/1/2007 10/1/2007 10/1/2007 10/1/2007 10/1/2007	Avg. Change: 9/12/2007 9/12/2007 10/1/2007 10/1/2007 10/1/2007 10/1/2007 10/1/2007 Avg. Change:	Avg. Change: 9/12/2007 9/12/2007 10/1/2007 10/1/2007 10/1/2007 10/1/2007 10/1/2007 10/1/2007 10/1/2007
	ML	All. Spring '07.	201.70	216.00	214.00	222.00	195.00	186.00	163.80	160.80	194.00	224.40	173.50	194.80	202.90		201.30	196.50	192.00	181.00	184.00	153.20	178.50			201.75	201.75 204.70	201.75 204.70 207.30	201.75 204.70 207.30 227.70	201.75 204.70 207.30 227.70 245.00	201.75 204.70 207.30 227.70 245.00 245.00	201.75 204.70 207.30 227.70 243.80 238.90 238.90	201.75 204.70 207.30 227.70 245.00 243.80 238.90	201.75 204.70 207.30 227.70 245.00 245.00 238.90 238.90	201.75 204.70 207.30 227.70 245.00 243.80 238.90
	Depth To	Water	43.30	36.00	32.00	28.00	26.00	34.00	59.20	68.20	33.00	18.80	44.50	38.20	21.10		13.70	18.50	20.00	43.00	30.00	31.80	16.50		T	52.25	52.25 54.30	52.25 54.30 47.70	52.25 54.30 47.70 42.30	52.25 54.30 47.70 42.30 15.00	52.25 54.30 47.70 42.30 15.00 13.20	52.25 54.30 47.70 42.30 15.00 15.00 16.10	52.25 54.30 47.70 42.30 15.00 15.00 16.10	52.25 54.30 47.70 42.30 15.00 15.00 16.10	52.25 54.30 47.70 42.30 15.00 16.10
	Date	Measured	4/12/2007	4/12/2007	4/12/2007	4/12/2007	4/20/2007	4/20/2007	1000/00/1	TODOLOGIA	112/2007	2000/212112	4/20/2007	4/12/2007	4/12/2007		4/5/2007	4/5/2007	4/5/2007	4/5/2007	4/5/2007	4/5/2007	4/5/2007			5/1/2007									
	LSA		245.00	252.00	246.00	250.00	221.00	00.000	00 866	227.00	00 200	241 00	218.00	233.00	224.00		215.00	215.00	212.00	224.00	214.00	185.00	195.00			254.00	254.00 259.00	254.00 259.00 255.00	254.00 259.00 255.00 270.00	254.00 259.00 255.00 255.00 270.00 260.00	2554.00 259.00 255.00 255.00 2570.00 260.00 260.00	254.00 259.00 255.00 255.00 260.00 257.00 255.00	254.00 255.00 255.00 257.00 260.00 255.00 255.00	254.00 255.00 255.00 255.00 255.00 255.00 255.00	254.00 259.00 255.00 270.00 260.00 257.00 255.00
	Longitude		910407	910623	910823	911145	911002	011344	010445	010000	010821	011637	910813	910416	912012		900241	920249	920008	915712	915555	914347	914651			910027	910027 905900		100000000			9			
	Latitude		354922	355216	355032	355026	363367	262216	SEGREE	000000	252042	210002	262268	364127	353722		342537	702025	341859	342712	342428	341836	341412			355352	355352 355714	355352 355714 355831	355352 355714 355831 360758	355352 355714 355831 356831 360758 360901	355352 355714 355831 356831 360901 360901 360435	355352 355714 355831 356831 360901 360435 35636.93	355352 355714 355831 356831 360758 360901 360435 355936.93	355352 355714 355831 356831 360901 360435 355936.93	355352 355714 355831 356831 360901 360435 355936.93
	Station ID		14N01W26BCB1	14N01W08AA1	14N01W198BB1	14N02W22BBC1	11MD24DD21	1 INUCAVEORIT I	100020101010101	INDIANO AND	I WOODOGALIONIT	12NUIV300004	100M04W40MB01	12M01W11BCB1	11N03W05ABA1		D3S10W35BCA2	OSCIMMORRAD	DASDOW32DDA1	03S09W14BCD1	DISDOW36ACC1	04S07W36DDB1	05S07W28CCC1			15N01E32BAA1	15N01E32BAA1 15N01E09ABD1	15N01E32BAA1 15N01E09ABD1 16N02E34CBB1	15N01E32BAA1 15N01E09ABD1 16N02E34CBB1 17N02E04DCA1	15N01E32BAA1 15N01E09ABD1 16N02E34CBB1 17N02E04DCA1 17N01E02BBA1	15N01E32BAA1 15N01E32BAA1 15N01E09ABD1 16N02E34CBB1 17N02E04DCA1 17N01W36AAB1	15N01E32BAA1 15N01E09ABD1 16N02E34CBB1 17N02E04DCA1 17N01E02BBA1 17N01W36AAB1 16N01W30DDC1	15N01E32BAA1 15N01E09ABD1 16N02E34CBB1 17N02E04DCA1 17N01E02BBA1 17N01E02BBA1 17N01W36AAB1 16N01W30DDC1	15N01E32BAA1 15N01E09ABD1 16N02E34CBB1 17N02E04DCA1 17N01E02BBA1 17N01W36AAB1 16N01W36AAB1	15N01E32BAA1 15N01E09ABD1 16N02E34CBB1 17N02E04DCA1 17N01E02BBA1 17N01W36AAB1 16N01W36AAB1
	County		lackson	lackson	lackson	lackeon	Inchoo	ladoon	Jackson -	Jackson	Jackson	Jackson	Jackson	lackson	lackson		laffareon	Infforent	lefferen	laffareon	leffereon	lafferson	Jefferson			awrence	Lawrence	Lawrence Lawrence Lawrence	Lawrence Lawrence Lawrence	Lawrence Lawrence Lawrence Lawrence Lawrence	Lawrence Lawrence Lawrence Lawrence Lawrence	Lawrence Lawrence Lawrence Lawrence Lawrence Lawrence Lawrence	Lawrence Lawrence Lawrence Lawrence Lawrence Lawrence Lawrence Lawrence	Lawrence Lawrence Lawrence Lawrence Lawrence Lawrence Lawrence	Lawrence Lawrence Lawrence Lawrence Lawrence Lawrence Lawrence

ML Changes on	Alluvial Wells	2002
Spring/Fall	Selected	Constantion of

-15.00 -19.00 -1.43 -3.22 -2.25 -2.44 -11.00 -11.00 -5.93 -2.00 4.00 -5.00 4.00 -2.00 -5.00 4.00 4.00 4.00 -3.00 2.00 -7.00 -4.80 -5.00 -2.52 -1.00 -5.00 -9.30 4.00 0.00 2.00 0.00 Springr 20, 200.48 119.88 154.00 141.00 152.00 146.00 129.00 131.00 123.00 119.00 138.00 159.50 173.00 154.70 160.00 166.00 163.00 159.00 122.00 145.70 162.00 150.00 166.00 142.00 131.50 133.00 139.50 162.00 140.97 165.00 165.00 Alth Fall 34.52 42.00 Nater 49.00 48.00 54.00 29.03 25.00 17.00 25.00 40.00 45.00 49.00 44.00 35.00 40.00 40.50 12.00 37.00 46.00 52.00 39.30 38.00 59.00 50.50 67.00 65.50 48.00 epth Avg. Change: Avg. Change: 10/17/2007 10/29/2007 10/29/2007 10/29/2007 10/29/2007 10/29/2007 10/29/2007 10/29/2007 10/29/2007 10/29/2007 10/29/2007 10/29/2007 9/24/2007 10/29/2007 10/29/2007 10/29/2007 10/29/2007 10/29/2007 10/29/2007 9/12/2007 9/24/2007 9/24/2007 9/24/2007 9/24/2007 9/24/2007 9/24/2007 10/29/2007 9/24/2007 9/24/2007 9/24/2007 9/12/2007 Measured 147.00 202.73 127.00 121.00 156.00 147.00 133.00 136.00 145.00 178.00 152.00 167.00 167.00 178.00 120.00 168.00 146.50 163.00 170.50 169.00 171.00 173.00 150.50 165.00 168.00 142.40 138.00 142.02 155.00 Sprind Ħ 32.27 83.68 22.00 40.00 45.00 42.00 30.00 36.00 52.00 27.60 15.00 24.00 36.00 60.00 34.50 35.00 54.00 29.00 29.00 35,50 62.98 47.00 29.50 21.00 33.00 35.00 52.00 33.00 42.00 Vater 7.00 3/20/2007 3/14/2007 200 4/18/2007 4/18/2007 4/24/2007 4/24/2007 4/22/2007 4/24/2007 4/24/2007 4/24/2007 4/18/2007 4/24/2007 4/24/2007 4/24/2007 4/18/2007 4/18/2007 5/9/2007 5/9/2007 5/9/2007 4/18/2007 4/18/2007 4/24/2007 4/26/2007 5/9/2007 5/9/2007 5/9/2007 4/4/2007 5/9/2007 5/9/2007 5/9/2007 5/9/2007 3/9/2007 206.00 235.00 207.00 180.00 220.00 170.00 190.00 171.00 171.00 169.00 176.00 172.00 163.00 177.00 206.00 200.00 196.00 209.00 185.00 185.00 202.00 204.00 215.00 185.00 200.00 178.00 183.00 210.00 200.00 182.00 200.00 205.00 -ongitude 914746 914114 913116 913533 913044 914529 920337 905016 910005 904707 913644 913252 913954 914335 904312 904846 904919 910520 910055 913832 913222 905318 903215 905729 905208 905040 910054 910150 905053 904837 905947 905327 343609 344330 344410 344628 343839 344030 344723 335840 345239 344255 345245 344500 345206 344633 3355529 340828 340229 335721 335452 335759 340411 atitude 344215 344056 345020 344033 344254 340021 345206 345327 340027 344951 340341 01S10W11CCB1 07S06W03CCA2 09S06W04BDD1 07S07W36CBD1 01S07W19DC1 08S05W32DCC1 09S06W24DAA1 08S04W06ABD1 08S05W12DBA1 08S05W21DCD1 08S05W29ABC1 09S04W06CBB1 02N03E29CAD1 01N02E01ADD1 02N01W34DDC1 02N01E21BAA1 02N02E22BBB1 01N01E21CCC1 02N03E09DDD1 03N03E05CDD1 03N05E26ADC1 01N02E11BAB1 03N03E18DAB1 01N01E09CCC1 03N01E32BCC1 03N02E12CDC1 01N02E22CBA1 01N01E24CBD1 01N02E12ABB1 03N04E07CBB1 10S05W05CB 03N01E15CC1 Station Lonoke Lonoke Lincoln Lee -ee Lee

County	Station ID	Latitude	Longitude	LSA	Date	Depth To	ML	Date	Depth	ML	Spring/Fal
-					Measured	Water	Alt. Spring '07	Measured	to Water	Alt. Fall '07	07. Change
Lonoke	02N08W34BA1	344543	915106	230.00	3/16/2007	130.00	100.00	10/15/2007	133.99	96.01	-3.99
Lonoke	02S08W06AAB1	343430	915447	221.00	3/16/2007	69.04	151.96	10/17/2007	69.89	151.11	-0.85
Lonoke	02S08W28CDC	343008	915237	211.00	3/16/2007	61.60	149.40	10/17/2007	62.98	148.02	-1.38
Lonoke	01N08W03DDA1	344411	915050	229.00	4/12/2007	135.20	93.80	10/19/2007	138.00	91.00	-2.80
Lonoke	02N07W07DA41	344845	914707	232.00	4/12/2007	132.00	100.00	10/19/2007	135.00	97.00	-3.00
Lonoke	01N09W07DAA1	344330	900028	240.00	4/12/2007	49.00	191.00	10/19/2007	54.00	186.00	-5.00
Lonoke	01N09W25BAA1	344120	915537	228.00	4/12/2007	87.50	140.50	10/19/2007	86.00	142.00	1.50
Lonoke	01N10W15CDA1	344236	920414	240.00		27.00	213.00	10/19/2007	27.00	213.00	0.00
Lonoke	01S09W36CCC1	343435.31	915618.98	220.00	4/12/2007	65.00	155.00	10/19/2007	66.00	154.00	-1.00
Lonoke	01S06W32BBB1	343501	914056	201.00	4/12/2007	78.00	123.00	10/19/2007	78.00	123.00	0.00
Lonoke	01S09W02DDD1	343857	915623	230.00	100	85.50	144.50	10/19/2007	89.00	141.00	-3.50
Lonoke	02N10W15ACC1	344807	920352	242.00	4/12/2007	32.50	209.50	10/19/2007	35.00	207.00	-2.50
Lonoke	02S09W35ABB1	343008	915652	216.00	4/12/2007	52.00	164.00	10/19/2007	55.00	161.00	-3.00
Lonoke	02S07W05CDC1	343326	914715	205.00	4/12/2007	70.20	134.80	10/19/2007	68.00	137.00	2.20
Lonoke	03N08W26CDC1	345100	915007	235.00	4/12/2007	108.20	126.80	10/19/2007	115.00	120.00	-6.80
								Avg. Change:			-2.05
									10.00	00000	100
Mississippi	14N11E33CAA1	354727	895508	240.00		12.50	227.50	10/25/2007	17.00	223.00	100.4
Mississippi	15N12E01BCD1	355704	894601	258.00	4/17/2007	8.00	250.00	10/25/2007	14,00	244.00	-6.00
Mississippi	16N10E28BBD1	355906.13	900156.03	238.00	4/17/2007	10.00	228.00	10/25/2007	12.00	226.00	-2.00
Mississippi	15N10E21ABC1	355447	900135	240.00	4/17/2007	10.00	230.00	10/25/2007	17.00	223.00	-7.00
Mississippi	13N08E24ABB1	354428	901112	230.00	4/17/2007	8.50	221.50	10/25/2007	10.50	219.50	-2.00
Mississippi	12N10E04CAA1	354124	900136	235.00	1.20	11.00	224.00	10/25/2007	23.00	212.00	-12.00
Mississippi	12N10E21DBA1	353842	900122	236.00	1.00	20.00	216.00	10/26/2007	21.00	215.00	-1.00
Mississippi	11N10E09BCB1	353530	900202	236.00	121	19.00	217.00	10/26/2007	23.00	213.00	4.00
Mississippi	10N08E21ABA1	352852	901415	224.00	4/20/2007	29.00	195.00	10/26/2007	30.00	194.00	-1.00
Mississippi	10N08E21BDC1	352830	901407	224.00	1.1	28.00	196.00	10/26/2007	28.00	196.00	0.00
Mississipoi	12N08E28DDB1	353707	901406	225.00	4/20/2007	20.50	204.50	10/26/2007	23,00	202.00	-2.50
Mississippi	12N09E12ABC1	354054	900449	232.00	4/19/2007	13.00	219.00	10/26/2007	26.00	206.00	-13.00
Mississippi	12N10E07BCD1	354036	900404	234.00		21.00	213.00	10/26/2007	25.00	209.00	4.00
Mississippi	14N08E20DAA1	354921	901458	225.00		5.00	220.00	10/25/2007	6.00	219.00	-1.00
Mississippi	14N08E26DCC1	354803	901235	230.00	4/16/2007	3.50	226.50	10/25/2007	2.00	223.00	-3.50
Mississippi	14N11E17CCB1	354955	895639	240.00	_	5.00	235.00	10/25/2007	13.00	227.00	-8.00
								Avg. Change:			-4.47

-2.86

133.36

51.64

9/11/2007

136.22

48.78

185.00 3/8/2007

910542

344139

01N01W15CBD1

Monroe

Spring/Fall WL Changes on Selected Allivial Wells

0

County	Station ID	Latitude	Longitude	LSA	Date	Depth To	ML	Date	Depth	MIL	Spring/Fa
					Measured	Water	Alt Spring '07	Measured	to Water	Alt. Fall '07	07 Change
Monroe	04N02W05BBB1	345957	911311	188.00	4/9/2007	15.00	173.00	10/19/2007	17.00	171.00	-2.00
Monroe	04N02W01BCC1	345929	911004	175.00	4/9/2007	39.00	136.00	10/19/2007	41.60	133.40	-2.60
Monroe	02N01W19ADD1	344624	910814	188.00	4/9/2007	52.50	135.50	10/19/2007	57.00	131.00	-4.50
Monroe	01S01W16DB	343615	910632	175.00	4/9/2007	19.00	156.00	10/19/2007	23.00	152.00	-4.00
Monroe	02S01W01BCD1	343305	910408	176.00	4/9/2007	19.00	157.00	10/19/2007	22.00	154.00	-3.00
Monroe	01S02W20BBB1	343612.7	911456.1	170.00	4/5/2007	12.00	158.00	10/19/2007	15.00	155.00	-3.00
Monroe	1N03W23BAC1	344124	911743	170.00	4/5/2007	15.00	155.00	10/19/2007	16.00	154.00	-1.00
Monroe	02N03W35BCA1	344455	911745	188.00	4/9/2007	30.00	158.00	10/19/2007	35.00	153.00	-5.00
								Avg. Change:			-3.11
									00.00	00 000	11 60
Phillips	01S03E10ABB1	343741	904634	205.00	4/2/2007	20.50	184.50	10/26/2007	32.00	173.00	-11.50
Phillips	01S03E02ADD1	343814	904511	200.00	4/2/2007	18.50	181.50	10/26/2007	27.00	173.00	-8.50
Phillips	01S04E05DCD1	343802	904151	230.00	4/2/2007	50.50	179.50	10/26/2007	57.00	173.00	-6.50
Phillips	01S01E200DB1	343529	910058	185.00	4/2/2007	27.00	158.00	10/25/2007	32.00	153.00	-5.00
Phillips	01S03E20BDD1	343533	904846	210.00	4/2/2007	34.00	176.00	10/26/2007	46.00	164.00	-12.00
Phillips	01S02E09BDC1	343725	910047	185.00	4/2/2007	16.00	169.00	10/25/2007	30.00	155.00	-14.00
Phillips	02S02E33ACC1	342824	905412	177.00	4/2/2007	26.50	150.50	10/26/2007	32.00	145.00	-5.50
Phillips	02S02E290DD1	342901	905444	180.00	4/2/2007	28.50	151.50	10/26/2007	35.00	145.00	-6.50
Phillips	02S03E34BCD1	342828	904653	165.00	4/3/2007	20.00	145.00	10/26/2007	23.00	142.00	-3.00
Phillips	02S04E27AAC1	342931.57	904001.09	179.00	4/2/2007	10.00	169.00	10/26/2007	14.00	165.00	4.00
Phillips	03S04E02CAA1	342732	903918	176.00	4/2/2007	17.50	158.50	10/26/2007	21.00	155.00	-3.50
Phillips	04S01E14CDD1	342014	905837	155.00	4/2/2007	15.00	140.00	10/26/2007	19.00	136.00	-4.00
Phillips	04S02E01DBB1	342220	905053	163.00	4/3/2007	15.00	148.00	10/26/2007	23.00	140.00	-8.00
Phillips	04S01E01AAD1	342238	905700	156.00	4/3/2007	19.00	137.00	10/26/2007	19.00	137.00	00.00
Phillips	04S01E29BBC1	341844	910148	150.00	4/3/2007	9.00	141.00	10/26/2007	16.00	134.00	-7.00
								and a state of the			
								Avg. Change:			-6.60
						01.00		10,00,000	00 00	A AE DO	VO F
Poinsett	11N01E17DDD1	353436.83	910013.21	230.00	4/2/2007	81.00	149.00	1002/2001	00.00	00.041	3.4
Poinsett	12N07E25DC1	353740	901802	226.00	3/26/2007	16.62	209.38	9/11/2007	22.64	203.36	-6.02
Poinsett	11N06E34AB1	353224	902646	211.00	3/26/2007	14.07	196.93	9/11/2007	18.87	192.13	4.80
Poinsett	12N01E22DAB1	353922	905809	235.00	4/2/2007	76.00	159.00	10/2/2007	79.50	155.50	-3.50
Poinsett	10N01E33ACB1	352746	905931	220.00	4/12/2007	79.50	140.50	10/2/2007	84.00	136.00	4,50
Poinsett	12N03E04DAD1	354158.01	904600.16	247.00	4/12/2007	106.00	141.00	10/3/2007	108.00	139.00	-2.00
Poinsett	12N03E01CBD1	354154	904329	250.00	4/12/2007	95.00	155.00	10/4/2007	94.00	156.00	1.00
Poinsett	12N02E25DCC1	353820	904944	245.00	4/2/2007	114.00	131.00	10/4/2007	112.00	133.00	2.00
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Spring/Fall WL Changes on Selected Alluvial Wells

County	Station ID	Latitude	Lonaitude	LSA	Date	Depth To	M	Date	Depth	VVL	D J Hunde
(mano)					Measured	Water	Alt. Spring '07	Measured	to Water	Alt. Fall '07	07 Change
Doincatt	12N05F16ABA1	354039	903333	221.00	4/12/2007	11.50	209.50	10/3/2007	13.00	208.00	-1,50
Poincett	11N04E36ABA1	353251	903654	211.00	4/12/2007	18.00	193.00	10/4/2007	20.00	191.00	-2.00
Doincett	10N04F35BBA1	352745	903831	215.00	4/12/2007	18.00	197.00	10/4/2007	19.00	196.00	-1.00
Poinsett	12N07E10BCC1	354042	902022	228.00	4/13/2007	11.00	217.00	10/3/2007	10.00	218.00	1.00
Poinsett	11N01E34AAA1	353256	905759	229.00	4/2/2007	89.00	140.00	10/2/2007	94.00	135.00	-5.00
Poinsett	10N01E02AAA1	353205	905654	235.00	4/2/2007	98.50	136.50	10/2/2007	104.50	130.50	-6.00
Poinsett	12N04E08CDA1	354053	904112	250.00	4/12/2007	90.00	160.00	10/4/2007	90.00	160.00	0.00
Poinsett	12N03E35DDA1	353735	904355	245.00	4/12/2007	104.00	141.00	10/3/2007	107.00	138.00	-3.00
Poinsett	11N03E17AA1	353534	904713	243.00	4/2/2007	107.00	136.00	10/4/2007	105.00	138.00	2.00
Poinsett	10N02E15CAA1	352939	905026	237.00	4/12/2007	105.00	132.00	10/2/2007	110.00	127.00	-5.00
Poinsett	10N03E19BCB1	352906	904021	239.00	4/12/2007	100.00	139.00	10/2/2007	105.00	134.00	-5.00
Poincett	10N03F20BBA1	352405	904810	235.00	4/12/2007	104.00	131.00	10/2/2007	110.00	125.00	-6.00
Poincett	10N03F26BBD1	352817	904449	257.00	4/12/2007	115.00	142.00	10/2/2007	120.00	137.00	-5.00
Poinsett	10N03E13BCB1	353001	904352	270.00	4/12/2007	130.00	140.00	10/2/2007	135.00	135.00	-5.00
Poinsett	10N02F33AA1	352726	905231	236.00	3/26/2007	100.18	135.82	9/11/2007	103.33	132.67	-3.15
Poinsett	11N04E13DDA1	353447	903631	210.00	4/13/2007	16.00	194.00	10/3/2007	19.00	191.00	-3.00
Poinsett	11N05F26BDB1	353318	903155	213.00	4/12/2007	10.00	203.00	10/3/2007	14.00	199.00	4.00
Poinsett	11N07E28CBB1	353250	902125	218.00	4/13/2007	23.50	194.50	10/4/2007	26.00	192.00	-2.50
Poinsett	10N07E28C8B1	352743	902128	215.00	4/13/2007	30.00	185.00	10/4/2007	31.00	184.00	-1.00
Poinsett	10N01E32CBB1	352657	910053	222.00	4/18/2007	76.00	146.00	10/2/2007	80.00	142.00	4.00
Poinsett	11N02E34CBA1	353238	905222	240.00	4/12/2007	111.00	129.00	10/2/2007	112.00	128.00	-1.00
Poinsett	12N02E26DDA1	353831	905024	245.00	3/25/2007	109.85	135.15	9/11/2007	111.86	133.14	-2.01
Poinsett	12N02E34CCC1	353724	905230	245.00	4/2/2007	113.50	131.50	10/2/2007	115.00	130.00	-1.50
											30 6
								Avg. cnange.			0017-
Draina	D1SDRM12RAR1	343826	913613	228.00	3/7/2007	119.36	108.64	10/17/2007	119.65	108.35	-0.29
Prairie	02N05W21CB1	344649	913300	225.00	3/8/2007	109.20	115.80	10/15/2007	108.60	116.40	0.60
Prairie	02N05W24ACB	344659	912937	225.00	3/8/2007	89.70	135.30	10/15/2007	93.20	131.80	-3.50
Prairie	02N06W21DAA1	344653	913827	234.00	3/7/2007	116.10	117.90	10/15/2007	115.70	118.30	0.40
Prairie	02N06W24CAA1	344651	913551	223.00	3/8/2007	118,60	104.40	10/15/2007	114.60	108.40	4.00
Prairie	05N05W28DDA1	350119	913228	191.00	4/17/2007	37.50	153.50	10/12/2007	40.00	151.00	-2.50
Prairie	01S04W28BBC1	343529	912650	206.00	4/17/2007	100.00	106.00	10/12/2007	101.00	105.00	-1.00
								Aur Change			-0.33
								SALIBITO - RAM			
Bandoloh	18ND2E17CBB1	361204	905356	265.00	5/1/2007	19.50	245.50	10/2/2007	21.00	244.00	-1.50
Dendoloh	10M01E13BBA1	361230	005551	285.00	L	47 KO	247 FD	10/2/2007	17 00	248 00	0.50

Spring/Fall WL Changes on Selected Alluvial Wells

					1007			100	111111	UN1	Contractical
County	Station ID	Latitude	Longitude	LSA	Date	Depth To	M	Uate		ALL N	opungra
					Measured	Water	Alt. Spring '06	Measured	to Water	Alt. Fail '06	06 Change
Randolph	18N01E28AAD1	361040	905820	265.00	5/1/2007	15.00	250.00	10/3/2007	18.00	247.00	-3.00
Randolph	19N02E09DCA1	361759	905158	267.00	5/1/2007	18.50	248.50	10/3/2007	14.00	253.00	4.50
Randolnh	19ND3E33CCB1	361941	904552	285.00	5/1/2007	24.00	261.00	10/3/2007	27.50	257.50	-3.50
Pandoloh	19ND2F22DAB1	361622	905049	266.00	5/1/2007	16.00	250.00	10/3/2007	14.00	252.00	2.00
Pandolnh	20N02F21CDD1	362117	905107	270.00	5/1/2007	11.00	259.00	10/3/2007	10.00	260.00	1.00
Randolph	18ND2F03DAD1	361336	905043	280.00	5/1/2007	27.50	252.50	10/2/2007	33.50	246.50	-6.00
Dandalah	20N02F14DAR1	362232	904930	274.00	5/1/2007	10.50	263.50	10/3/2007	20.00	254.00	-9.50
toloh	20N02F06DAD1	362410	905339	281.00	5/1/2007	14.00	267.00	10/3/2007	18.00	263.00	-4.00
Dandoloh	18NDFDRACR1	361400	905458	273.00	5/1/2007	17.00	256.00	10/3/2007	19.00	254.00	-2.00
Randolph	18ND7F34BAB1	360933	905150	270.00	5/1/2007	34.50	235.50	10/2/2007	37.50	232.50	-3.00
Bandoloh	18MO2F20RDA1	361125	905332	274.00	5/1/2007	31.00	243.00	10/2/2007	34.00	240.00	-3.00
Randolph	20N02E12BAA1	362352	904848	281.00	5/1/2007	11.50	269.50	10/2/2007	14.00	267.00	-2.50
								Avg. Change:			41.7-
Francie	04N01W17CRC1	345735	910801	208.00	4/3/2007	59.82	148.18	9/11/2007	62.84	145.16	-3.02
St Francie	DAND1W22BB1	345719	910554	200.00	5/10/2007	63.00	137.00	11/6/2007	73.00	127.00	-10.00
St Francis	04N01E27BC1	345609.71	910545.23	200.00	5/10/2007	72.00	128.00	11/6/2007	74.00	126.00	-2.00
Francis	04N02E29BB1	345556.38	905435.04	212.00	1	58.00	154.00	11/6/2007	62.00	150.00	-4.00
St Francis	05N01E6DA1	350446	910156	211.00	100	73.00	138.00	11/6/2007	84.00	127.00	-11.00
St. Francis	04N01W20BBB1	345716	910759	200.00		60.00	140.00	11/6/2007	63.00	137.00	-3.00
rancis	05N02E26CC1	350034.88	905208.56	215.00	5/10/2007	51.00	164.00	11/6/2007	53.50	161.50	-2.50
St. Francis	05N03E32BA1	350610.48	904828.73	300.00		49.00	251.00	11/6/2007	51.00	249.00	-2.00
St. Francis	06N01E33AC1	350552	905941.6	211.00	1	68.00	143.00	11/6/2007	69.00	142.00	00.1-
St. Francis	06N02E16CC1	350824	905403	210.00		68.00	142.00	11/6/2007	73.50	136.50	00'9-
rancis	04N02E27AAA1	345604	905220	211.00	5/10/2007	49.00	162.00	11/6/2007	54.00	157.00	00.6-
Francis	04N02E16ACD1	345733	905341	209.00	5/10/2007	51.00	158.00	11/6/2007	24.00	155.00	-3.00
								Avg. Change:			4.34
		CLOCK C	010EE0	01000	TUNCIONE	ARED	186 60	10/04/001	46.50	166.50	0.00
White	06N06W13DBB1	216065	200018	413.00	2000/00/0	00.01	101 80	TODAPOOL	21.00	189.00	-2.80
White	06N06W18BCA1	350835	914150	201000	3/22/2007	0.40	100.001	200014200	28.00	183.00	-0.20
White	06N06W04BAD1	351037	913903	221.00	SIZZIZUUI	31.00	103.20	1002142101	20.00	20.001	2412
								Aun Change			-1.00
								DR. D. DR.C			
Woodnett	D5ND3W25DDB1	350133	911531	190.00	190.00 4/30/2007	12.90	177.10	10/31/2007	13.90	176.10	-1.00
INDOOAN	I DODOZANONNICO	2001000									

ing/Fall WL Changes on	selected Alluvial Wells	2007
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County	Station ID	Latitude	Longitude	LSA	Date	Depth Tol	M	Date	Depth	M	Spring/Fall
					Measured	Water	Alt. Spring '06	Measured	to Water	Alt. Fall '06	06 Change
Woodruff	08N03W04BBB1	352128	911919	221.00	2/23/2007	19,30	201.70	9/11/2007	20.21	200.79	-0.91
Woodruff	09N03W32ACA1	352205	911936	217.00	4/30/2007	20.30	196.70	10/31/2007	21.00	196.00	-0.70
Woodruff	07N03W31BBA1	351152	912103	190.00	4/30/2007	5.40	184.60	10/31/2007	13.70	176.30	-8.30
Woodruff	07N01W04ABC1	351541	910626	225.00	4/30/2007	62.90	162.10	10/31/2007	65.60	159.40	-2.70
Woodruff	07N03W068AC1	351607	912109	211.00	3/21/2007	23.50	187.50	10/31/2007	24.58	186.42	-1.08
Woodruff	05N01W31CCC1	350106	910900	210.00	4/19/2007	59.60	150.40	10/31/2007	61.50	148.50	-1.90
Woodruff	06N04W22BDA1	350807	912428	186.00	4/30/2007	3.40	182.60	10/31/2007	6.50	179.50	-3.10
Woodruff	05N01W13CDC1	350244	910331	210.00	4/19/2007	74.30	135.70	10/31/2007	78.30	131.70	4.00
Woodruff	08N02W27DDB1	351711	911107	213.00	4/30/2007	27.40	185.60	10/31/2007	28.90	184.10	-1.50
Woodruff	09N03W21DBD1	352326.1	911841.57	220.00	4/30/2007	20.50	199.50	10/31/2007	21.30	198.70	-0.80
Woodruff	06N01W11AAB1	350944	910354	215.00	2/23/2007	63.10	151.90	9/11/2007	65.62	149.38	-2.52
								Avg. Change:			-2.35
							Tota	Total Average Change:	:ebue		-3.28
								Declines/ Wells	:8		301/357
											84.31%

<u>Appendix F</u>

Water Quality Data from Selected ANRC Wells

Well ID	Units	AR1-01	AR2-02	AR3-03	AR4-04	PR1-01	PR2-02	PR3-03	LO-101
Location	Latitude	342036	341343	342552	342736	345718	344254	345844	345059
	Longitude	910743	911102	912252	912251	914728	912850	914629	915309
Sampling date	mo/dy/yr	06/05/02	06/05/02	06/11/02	06/11/02	06/04/02	06/04/02	06/06/02	06/06/02
Sample	Characteristics	UnFiltered	UnFiltered	UnFiltered	UnFiltered	UnFiltered	UnFiltered	UnFiltered	UnFiltered
Parameter	Aquifier	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial
Calcium	mg/L	82.19	73.46	93.36	86.63	61.10	129.53	54.94	17.56
Magnesium	mg/L	20.45	22.15	25.51	32.08	15.04	40.79	12.90	6.56
Sodium	mg/L	11.26	14.84	52.79	53.57	13.14	45.44	18.68	13.34
Potassium	mg/L	1.1	1.8	2.7	4.6	1.0	2.6	1.2	6.0
lron	mg/L	0.045	1.753	1,663	1.507	0.026	4.384	0.027	3,373
Lead	mg/L	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.01
Manganese	mg/L	0.018	0.193	0.236	0.172	0.005	0.190	0.001	2.054
Copper	mg/L								
Zinc	mg/L	0.014	0.021	0.036	0.020	0.019	0.041	0.019	0.022
Alkalinity	mg/L as CaCO <sub>3</sub>	281	264	407	385	197	364	206	62
Bicarbonate#	mg/L	340	320	491	466	240	441	250	76
Carbonate#	mg/L	0.94	1.12	2.72	2.14	0.42	1.28	0.79	0.01
Chloride	mg/L	13.66	12.79	45.42	35.62	11.37	66.30	14.86	11.57
Sulfate	mg/L	17.08	9,50	13.46	27.09	2.46	117.92	1.83	25.01
Bromide	mg/L	0.156	0.040	0.112	0.110	0.105	0.401	0.146	0.108
Fluoride	mg/L	0.050	0.220	0.190	0.210	0.05	0.18	0.19	0.28
Nitrate***	mg/L as N	0.083	0.037	0.016	0.017	0.076	0.000	0.231	0.019
Ammonia	mg/L	×							
Orthophosphate **	mg/L	0.0719	0	0	0	0.1399	0	0.636	0
Ha	standard units	7.78	7.88	8.08	8.00	7.58	7.80	7.84	6.36
Conductivity	uS/cm	573	541	880	844	405	1044	439	212
Turbidity	NTU		1.42		•			•	
TSS	mg/L	0.40	0.30	1.12	0.56	0.65	8.00	0.18	0.60
TDS	mg/L	361	335	561	491	263	729	279	173
Total Coliform	MPN/100 ml	e	>200.5	3	15	<1	4	70	1V
E. coli	MPN/100 ml	<1	>200.5	<1	4	4	4	4	2
	Evenediad holding time	9		SW. SP. and B	IN wells are ANI	RC wells, other	SW SP and BN wells are ANRC wells, other weils are private		
	**Orthophosphate is measured by IC, therefore sample Filtered in instrument through 0.20 um pore-size membrane	neasured by IC.	therefore sam	ole Filtered in in	strument throug	h 0.20 um pore	-size membrane		
	***Nitrate was analyzed for samples collected before 10/12/03 and nitrate+nitrite thereafter and both are reported as N	od for samples o	ollected before	10/12/03 and n	itrate+nitrite the	reafter and both	h are reported as	z	
	- Not analyzed								
	7. Questionable data								
	# Bicarbonate and carbonate concentrations were calculated from measured alkalinity and pH	rbonate concent	rations were ca	liculated from m	leasured alkalin	ity and pH			
	we set ush a related value from blockburgts and carbonate concentrations	tant unline from 1	vicathonate and	I carbonate con	cantratione				

Well ID	L02-SW1	L03-SW2	PR4-SW3	PR5-SW4	PR6-SW5	PR7-SW6	PR8-SW7	AR7-SW8	MN1-SW10
Location	343007	343430	344653	344651	344649	344659	343826	340740	344139
	915237	915447	913827	913551	913300	912937	913613	912115	910542
Sampling date	06/19/02	06/18/02	03/04/03	02/16/03	03/05/03	02/19/03	05/28/03	06/11/03	06/18/03
Sample	UnFiltered	UnFiltered	UnFiltered	UnFiltered	UnFiltered	UnFiltered	UnFiltered	UnFiltered	UnFiltered
Parameter	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial
Calcium	112.51	107.62	127.273	103.829	99.998	86.387	89.612	162.130	142.411
Magnesium	29.50	24.83	25.569	22.113	22.403	22.950	26.064	39.511	53.309
Sodium	47.12	33.09	29.09	26.57	37.99	21.34	51.330	79.52	43.89
Potassium	1.8	1.6	1.43	1.37	2.12	1.77	1.390	2.702	1.978
Iron	10.918	9.775	2.198	2.020	2.162	0.965	1.463	3.352	4.917
Lead	0.01	0.01	0.013	0.004	0.004	0,965	0.001	0	0
Manganese	0.297	0.215	0.308	0.193	0.191	0.166	0.185	0.324	0.317
Copper									
Zinc	0.022	0.027	0.013	0.017	0.011	0.014	0.000	0.000	0.000
Alkalinity	338	282	368	1247	270	124?	274	432	432
Bicarbonate#	411	340	447	1497	329	1497	334	526	526
Carbonate#	0.56	1,80	1.03	1.0627	0.42	0.9487	0,11	0.44	0.57
Chloride	48.94	32.73	21.99	28.13	57.34	4.71	28.125	156.971	71.918
Sulfate	92.64	105.01	88.20	32.93	78.52	32.58	85.398	38.482	92.961
Bromide	0.216	0.162	0.17	0.076	0.45	0.00	0.213	0.285	0.410
Fluoride	0.12	0.11	0.13	60.0	0.14	0.14	0.149	0.000	0.047
Nitrate	0.026	0.037	0.03	0.02	0.08	0.14	1.894*	0.008*	0.058*
Ammonia					1411				
Orthophosphate **			0.0332	0	0	0.013	0.0509	0	0
Hd	7.47	8.06	7.70	8,19	7.44	8.14	6.85##	7.26	7.370
Conductivity	929	818	880	288	820	279	770	1296	1133
Turbidity									
TSS	17.20	42.24	15.0	7.8	30.1	13.8	3		
TDS	539	765	695	463	514	401	511*	824*	773.
Total Coliform	12	>200.5	59.000	>200.5	165	95			
E. coli	<1	2	41	4	41	44	SK.		8
	** Exceeded holding time	ding time	SW, SP, and BN	wells are ANRC	and BN wells are ANRC wells, other wells are private	are private			
	**Orthophospha	ste is measured t	**Orthophosphate is measured by IC, therefore sample Filtered in instrument through 0.20 um pore-size membrane	mple Filtered in i	nstrument through	h 0.20 um pore-si	ze membrane		
	***Nitrate was a	inalyzed for sample	***Nitrate was analyzed for samples collected before 10/12/03 and nitrate+nitrite thereafter and both are reported as	me 10/12/03 and	nitrate+nitrite ther	eafter and both a	re reported as N		
	- Not analyzed						States		
	7 Questionable data	data			ALC: NOT ALC				
	# Bicarbonate a	ind carbonate co	# Bicarbonate and carbonate concentrations were calculated from measured alkalinity and pH	calculated from r	measured alkalinit	ty and pH			
	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	main means and an install miner of an install the state	a alanahanaha mala	therets and exchange encouranteetiese	and a second a line				

Well ID	LO4-SW9	AR1-01	AR2-02	AR3-03	AR4-04	AR5-05	AR6-06	PR2-02	PR3-U3
Location	343841	342036	341343	342552	342736	341245	341318	344254	345844
	920337	910743	911102	912255	912251	912947	912909	912850	914629
Sampling date	06/25/03	10/15/03	10/15/03	10/16/03	0/16/2003	10/15/03	10/15/03	10/16/03	10/16/03
Sample	UnFiltered	UnFiltered	UnFiltered	UnFiltered	UnFiltered	UnFiltered	UnFiltered	UnFiltered	UnFiltered
Parameter	Alluvial	Alluvial	Alluvial	Albuvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial
Calcium	52.696	82.420	88,772	103.951	88.957	9.510	3.660	137.119	54.770
Magnesium	14.520	19.636	24.898	28.119	32.907	2.649	0.975	44.008	12.030
Sodium	69.30	11.250	27.750	58.650	53.460	180.320	37.770	47.120	20.870
Potassium	2.244	1.220	2.390	2.890	4.530	4.680	3.730	2.900	1.410
Iron	10.605	0.017	2.012	2.674	2.545	0.116	0.130	9.284	0.100
Lead	0	0.001	0.015	0.000	0.004	0.003	0.004	0.006	0.003
Manganese	0.296	0.021	0.232	0.263	0.194	0.033	0.125	0.221	0.000
Copper		0.003	0.253	0.001	0.000	0.060	0.001	0.007	0.001
Zinc	0.000	0.000	0.117	0.000	0.000	0.184	0.151	0.028	0.000
Alkalinity	242	250	302	404	390	394	98	376	204
Bicarbonate#	295	304	368	492	475	476	119	458	248
Carbonate#	0.09	0.30	0.45	0.47	0.60	2.33	0.34	0.30	0.42
Chloride	19.874	12.053	30.795	43.985	34,880	13.350	3.971	94,911	13.336
Sulfate	0.000	21.532	16.916	13.801	20.000	0.034	0.083	115.448	1.826
Bromide	0.000	0.154	0.147	0.138	0.132	0.068	0.038	0.672	0.132
Fluoride	0.069	0.078	0.082	0.082	0.130	0.753	0.137	0.042	0.115
Nitrate	0.140*	0.000	0.000	0.000	0.000	0.051	0.000	0.000	0.008
Ammonia		0.010	0.374	0.672	0.859	1.083	0.383	0.910	0.012
Orthophosphate **	0	0.094	0.021	0.000	0.000	0.115	0.130	0.000	0.084
Hd	6.830	7.320	7.420	7.310	7.430	8.020	7.790	7.150	7,560
Conductivity	606	547.000	686.000	900.000	860.000	766.000	202.000	1152.000	446.000
Turbidity		1.000	8.000	16.000	20.000	0.000	0.000	48.000	0.000
TSS				•					•
TDS	390*	2			2	×			×
Total Coliform		2			•				
E. coli	•								
	<ul> <li>Exceeded holding time</li> </ul>	ng time	SW, SP, and BN	nd BN wells are ANRC wells, other wells are private	vells, other wells a	ire private			
	**Orthophosphat	e is measured by	/ IC. therefore sai	**Orthophosphate is measured by IC, therefore sample Filtered in instrument through 0.20 um pore-size membrane	trument through C	0.20 um pore-size	membrane		
	***Nitrate was an	alyzed for sampl	les collected befo	***Nitrate was analyzed for samples collected before 10/12/03 and nitrate+nitrite thereafter and both are reported as N	trate+nitrite therea	after and both are	reported as N		
	- Not analyzed								
	7 Questionable data	ata							
	# Bicarbonate and carbonate concentrations	d carbonate con		were calculated from measured alkalinity and pH	easured alkalinity	And pH			

Well ID	LO2-SW1	LO3-SW2	AR1-01	AR2-02	AR3-03	AR4-04	AR5-05	AR6-06	PH2-02
Location	343007	343430	342036	341343	342552	342736	341245	341318	344254
	915237	915447	910743	911102	912252	912251	912947	912909	912850
Sampling date	10/14/03	10/13/03	10/15/03	10/15/03	10/16/03	10/16/03	10/15/03	10/15/03	10/16/03
Sample	UnFiltered	UnFiltered	Filtered	Filtered	Filtered	Filtered	Filtered	Fittered	Filtered
Parameter	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial
Calcium	118.360	121.914	78.789	84.787	99.957	86.265	9.496	3.579	133.538
Magnesium	27.336	32.048	19.125	24.214	27.272	32.102	2.688	0.958	43.302
Sodium	28.380	36.480	11.210	27.230	56,810	52.620	176,550	37.440	46.720
Potassium	1.890	2.140	1.230	2.340	2.950	4.430	4,610	3.700	2.900
Iron	12.166	11.308	0.028	0.800	2.407	2.252	0.122	0.028	3.373
Lead	0.010	0.005	0.002	0.009	0.003	0.007	0.002	0.003	0.005
Manganese	0.207	0.442	0.021	0.224	0.266	0.197	0.034	0.013	0.213
Copper	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000
Zinc	0.000	0.000	0.003	0.000	0.000	0.000	0.191	0.140	0.002
Alkalinity	288	320		1.1		4			•
Bicarbonate#	351	390							
Carbonate#	0.16	0.17						•	•
Chloride	32.795	125.213							×
Sulfate	104.071	139.343							•
Bromide	0.175	0.303	1990	*			-		
Fluoride	0.108	0.113		1					•
Nitrate***	0.000	0.000		1	æ				
Ammonia	0.435	0.340							•
Orthophosphate **	0.000	0.000		1.000	*		•		•
Ha	6.990	6.960							
Conductivity	846.000	961.000				э.	•		
Turbidity	93.000	84.000				•			•
TSS				10			3	4	×
TDS									•
Total Coliform									•
E. coli			•	4	*	*			•
	Exceeded holding time	ding time	SW, SP, and Bh	<b>Wwells are ANRC</b>	and BN wells are ANRC wells, other wells are private	s are private			
	**Orthophosphi	ate is measured t	by IC, therefore s	ample Filtered in	**Orthophosphate is measured by IC, therefore sample Filtered in instrument through 0.20 um pore-size membrane	gh 0.20 um pore-t			
	···Nitrate was a	inalyzed for sample	pies collected be	fore 10/12/03 an	Nitrate was analyzed for samples collected before 10/12/03 and nitrate+nitrite thereafter and both are reported	ereafter and both		z	
	- Not analyzed				Superior and the second				
	7 Questionable data	data		the second second second					
	# Bicarbonate a	and carbonate co	ncentrations wer	e calculated from	# Bicarbonate and carbonate concentrations were calculated from measured alkalinity and pH	hity and pH			
			and the other designs where the party of the						

Well ID	PR3-03	L02-SW1	AR8 SW11	<b>AR3 SW12</b>	AR3 03	L05 SW13	PN1 SW14	PN2 SW15	CH1-SW16	JK1-SW1/
Location	345844	343007	342630	342553	342552	344543	353740	353224	354916	353550
	914629	915237	913007	912251	912252	915106	901802	902646	905125	910428
Sampling date	10/16/03	10/14/03	04/20/04	04/21/04	04/21/04	04/23/04	04/27/04	04/28/04	05/04/04	05/06/04
Sample	Filtered	Filtered	Filtered	Filtered	Filtered	Filtered	Filtered	Filtered	Filtered	Filtered
Parameter	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial
Calcium	54.972	116.256	74.207	95.838	99.280	46.182	74.608	89.638	59.962	81.302
Magnesium	12.209	26.999	20.171	29.312	28.924	13.117	12.612	22.795	17.115	23.199
Sodium	20.870	28.390	33.30	63.33	56.87	63.85	7.30	10.35	28.85	24.10
Potassium	1.420	2.050	1.89	3.04	2.92	1.01	2.08	1.19	2.00	2.35
Iron	0.000	11.961	1.908	0.384	1.190	1.954	14.620	9.903	0.878	2.575
Lead	0.000	0.006	0.008	0.006	0.013	0.001	0.008	0	0.004	0.001
Manganese	0.001	0.204	0.140	0.224	0.223	0.100	0.532	0.744	0.245	0.634
Copper	0.001	0.010	0.006	0.005	0.009	0.002	0.001	0.003	0.005	0.002
Zinc	0.000	0.020	0.123	0.046	0.105	0.017	0.015	0.021	0.010	0.015
Alkalinity			280	398	414	246	240	256	268	256
Bicarbonate#			341	484	503	294	292	312	326	310
Carbonate#			0.47	0.81	1.01	2.96	0.29	0.31	0.70	1.08
Chloride		÷	17.598	44.796	45.785	16,365	2.412	8.511	26.649	15.171
Sulfate			10.593	15.224	13.936	30.995	16.651	51.682	49.327	61.752
Bromide			0.000	0.112	0.116	0.083	0.008	0.000	0.231	0.113
Fluoride			0.069	0.070	0.066	0.143	0.099	0.093	0.0637	0.0554
Nitrate			0.089	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Ammonia			0.383	0.622	0.635	0.103	0.616	0.092	0.278	0.402
Orthophosphate **			0.0398	0.046	0	0.025	0.0265	0	0.0261	0
Hd			7.45	7.53	7.61	8.31	7.30	7.30	7.64	7.85
Conductivity		S.	611	885	924	563	480	578	713	653
Turbidity			36	15	14	24	42	48	3	11
TSS		5	X	3	•			×.		3
TDS		×								
Total Coliform									•	•
E. coli		34) 		a.		3		×		
	** Exceeded holding time	Iding time	SW, SP, and B	SW, SP, and BN wells are ANRC wells, other wells are private	C wells, other we	ells are private				
	"Orthophosph	ate is measured	"Orthophosphate is measured by IC, therefore	sample Filtered in instrument through 0.20 um pore-size membrane	in instrument thr	ough 0.20 um po	vre-size membr	ane		
	***Nitrate was	analyzed for san	nples collected b	Nitrate was analyzed for samples collected before 10/12/03 and nitrate+nitrite thereafter and both are reported as N	nd nitrate+nitrite	thereafter and b	oth are reporte	d as N		
	- Not analyzed									
	7 Questionable data	e data								
	# Bicarbonate	and carbonate o	oncentrations we	# Bicarbonate and carbonate concentrations were calculated from measured alkalinity and pH	m measured alk	alinity and pH				
	and sold to be the	calculated value	## nH value is calculated value from hicarbonate and carbonate concentrations	a and narhonate	concentrations					

Well ID	W01-SW18	CS1-SW19	SF1-SW20	LN1-SW21	DR1-SW22	W02-SW24	CS2-SW25	PN3-SW26	PN4-SW2/	CU1-27723
Location	352128	351508	345735	335228	334144	350944	352505	353831	352726	351630
	911919	905113	910801	913833	912842	910354	905653	905024	905231	901933
Sampling date	05/07/04	05/11/04	05/12/04	05/18/04	05/19/04	6/8/2005	6/9/2005	6/14/2005	6/15/2005	6/16/2005
Samole	Filtered	Filtered	Filtered	Filtered	Filtered	Filtered	Filtered	Filtered	Filtered	Filtered
Parameter	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial
Calmin	80.176	126.640	64.047	22.647	30.074	60	110	152	105	64
Manasium	13.885	56.522	19.662	6.884	10.267	16	32	35	30	19
Codium	19.40	30.98	15.04	14.87	12.08	12	37	38	36	14
Dotaceium	2 22	177	1.53	1.95	1.62	-	2	2	2	4
Todassenti	2 477	0.427	0.626	16.362	23.765	0.52	22	4.3	2	6.7
1 and	0.005	0.003	0.003	0.007	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Managaga	1 630	0.239	0.904	0.617	0.414	0.38	0.37	0.64	0.42	0.320
Conner	1000	0.006	0.001	0.003	0.000	0.004	0.002	0.002	<0.001	0.001
	0.010	0.020	0.017	0.038	0.008	0.058	0.021	0.029	0.025	0.010
Altolinity	100	472	316	100	116	204	410	490	388	260
Ringthonates	233	571	382	122	141	249	499	265	473	317
Carbonate#	0.71	2.19	1.64	0.03	0.06	0.2	0.3	0.2	0.3	0.2
Chinida	6.061	15.948	17.538	1.986	7.148	9.18	15.55	17.53	30.63	3.47
Sulfate	54.832	54.722	23.360	1.129	7,894	1.56	35.28	66.74	19.25	2.61
Bromide	0000	0.169	0.115	0.006	0.000	0.450	0.116	0.136	0.205	0.034
Fluoride	0.0700	0.0525	0.0776	0.062	0.092	0.16	0.17	0.08	0.14	0.24
Nitrate***	0.000	0.000	0.000	0.000	0.000	0.014	0.016	0.031	0.031	0.036
Ammonia	0.196	0.152	0.164	0.287	0.222	0.302	0.284	0.484	0.219	0.726
Orthophosphate **	0	0	0.1059	0.0282	0	<0.13	<0.13	<0.13	<0.13	<0.13
Ho	7.79	7.89	7.94	6.62	6.94	7.14	7.18	6.87	7.12	7.10
Conductivity	480	1007	688	214	277	457	860	1049	835	506
Turbidity	16	12	20	91	37	36	16	13	13	38
TSS			1				×	•		•
TDS	-	~		a.		•				
Total Coliform										•
E. coli				4						
	** Exceeded holding time	ding time	SW, SP, and B	BN wells are ANRC wells, other wells are private	RC wells, other v	vells are private				
	**Orthophospha	**Orthophosphate is measured by IC, therefore sample Filtered in instrument through 0.20 um pore-size memorane	by IC, therefore	sample Filtered	in instrument th	rougn 0.20 um p	one-size memo			
	***Nitrate was a	Nitrate was analyzed for samples collected		before 10/12/03 and nitrate+nitrite thereafter and both are reported as	ind nitrate+nitrite	e thereafter and	both are reporte	N as N		
	- Not analyzed									
	? Questionable data	data								
	# Bicarbonate a	# Bicarbonate and carbonate concentrations were calculated from measured alkalinity and pH	phoentrations we	hre calculated fro	im measured all	calinity and pH				
	and and share the	## vH value is calculated value from bicarbonate and carbonate concentrations	from hinarhonal	e and carbonate	concentrations					

341245         344651         344656         34138         351630         344353         34333         9105423         913543         913543         913543         913543         913543         913543         913543         913543         913543         913543         913543         913543         913543         913543         913543         913543         913543         913543         913543         91353         913543         91353         913543         91353         913543         91353         913543         91353         913543         91353         913543         91353         913543         91353         913543         91353         913543         91353         913543         91353         913543         91353         91353         91353         91353         91353         91353         91353         91353         91353         91353         913         913         913         913         913         913         913         913         913         913         913         913         913         913         913         913         913         913         913         913         913         913         913         913         913         913         913         913         913         913 <th< th=""><th>347265         344651         344651         344651         344650         347361         344650         347361         344650         347351         347351         347351         347351         347351         347351         347351         347351         347351         347351         347351         347351         347351         347351         347513         347351         347513         34731         34731         34731         34731         34731         3473         347         35         37         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         <th3< th="" th<=""><th>Well ID</th><th>CO-CNH</th><th>PR5-SW4D</th><th>PR7-SW6D</th><th>AK6-06</th><th>CD1-5W23U</th><th>COLMS-LNW</th><th>PR8-SW/U</th><th>AR30SW12D</th></th3<></th></th<>	347265         344651         344651         344651         344650         347361         344650         347361         344650         347351         347351         347351         347351         347351         347351         347351         347351         347351         347351         347351         347351         347351         347351         347513         347351         347513         34731         34731         34731         34731         34731         3473         347         35         37         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3 <th3< th="" th<=""><th>Well ID</th><th>CO-CNH</th><th>PR5-SW4D</th><th>PR7-SW6D</th><th>AK6-06</th><th>CD1-5W23U</th><th>COLMS-LNW</th><th>PR8-SW/U</th><th>AR30SW12D</th></th3<>	Well ID	CO-CNH	PR5-SW4D	PR7-SW6D	AK6-06	CD1-5W23U	COLMS-LNW	PR8-SW/U	AR30SW12D
91247         912637         912637         912637         912637         912637         912637         912631         912631         912631         912631         913231         912631         913231         912631         913231         912631         913231         912631         913231         912631         913231         912631         913233         912631         913233         913233         913233         913233         913233         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333         91333	912947         913951         913951         913951         913951         913951         913521         913513         913513         913513         913513         913513         9135204         11112005         913112005         913112005         9131120         913112005         913112005         913112005         9131112005         9131112005         9131112005         9131112005         9131112005         913111         9131120         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111         913111	Location	341245	344651	344659	341318	351630	344139	343826	342553
061202         031203         032703         061202         0928-2004         1111/2005         1111/2005           10Filtered         UnFiltered         UnFiltered         UnFiltered         UnFiltered         Filtered         7         33         35         7         33         35         7         33         35         7         33         35         7         33         35         7         33         35         7         35         35         7         35         35         7         35         35         7         35         35         7         35         35         7         35         35         7         35         35         7         35         35         7         35         35         7         35         35         7         35         35         7         35         35         7         35	061:202         031:703         032:703         061:1202         05:28:2004         05:28:2004         111:12005         111:12005           NoFiltered         UnFiltered         UnFiltered         UnFiltered         Filtered         Filtered         Filtered         Filtered         Filtered         Filtered         Filtered         7         33           357         64.419         59:813         333         19         52.3         87         3           357         64.419         48:563         37.33         7.6         100         36         61           357         50.3         366         37.33         7.6         66         4.3         7         7           29         386         3.63         37.33         7.6         007         2001         2001         7           29         386         0.12         0.135         0.011         0.24         0.016         0.003         0.003           140         280         0.13         0.137         0.137         0.016         0.016         0.003         0.003           140         344         1.96         0.19         1.7         2.7         2.94         2.27           140		912947	913551	912937	912909	901933	910542	913613	912251
UnFiltered         UnFiltered         UnFiltered         UnFiltered         UnFiltered         UnFiltered         UnFiltered         UnFiltered         Enerted         Filtered         Sparta	UnFiltered         UnFiltered         UnFiltered         UnFiltered         UnFiltered         UnFiltered         UnFiltered         UnFiltered         Filtered         Filte         Filte         Filtered <td>mpling date</td> <td>06/12/02</td> <td>03/12/03</td> <td>03/27/03</td> <td>06/12/02</td> <td>09-28-2004</td> <td>09-28-2004</td> <td>09-28-2004</td> <td>11/11/2005</td>	mpling date	06/12/02	03/12/03	03/27/03	06/12/02	09-28-2004	09-28-2004	09-28-2004	11/11/2005
Sparta         Spara         Spara         Spara <td>Sparta         Sparta         Sparta&lt;</td> <td>Sample</td> <td>UnFiltered</td> <td>UnFiltered</td> <td>UnFiltered</td> <td>UnFiltered</td> <td>Filtered</td> <td>Filtered</td> <td>Filtered</td> <td>Filtered</td>	Sparta         Sparta<	Sample	UnFiltered	UnFiltered	UnFiltered	UnFiltered	Filtered	Filtered	Filtered	Filtered
357         64419         48524         338         19         52         87         33           0.97         16.300         10774         0.93         9.4         14         20         7           0.97         16.300         10774         0.93         56.6         4.3         7         33           2.9         3.895         3.68         3.4         7         6.0         36         7           2.9         3.895         3.68         3.4         7         6.6         4.3         7           2.9         3.89         3.83         3.4         7         6.0         36         61           0.012         0.057         0.053         0.001         0.001         0.001         0.001           0.023         0.012         0.053         0.012         0.155         0.004         0.003         0.001           0.033         0.124         0.36         110         0.19         2.0         2.0         2.0           140         280         21.99         24.01         4.23         1.27         2.84         2.27           1.10         0.13         0.16         0.12         0.020         0.012	357         64.19         45.5.4         3.38         19         52         87         33           60.74         4.630         10.774         0.33         7.6         100         36         61           60.74         16.300         10.774         0.33         7.6         6.6         4.3         7           7         3.86         3.68         3.68         3.63         3.7         6.6         4.3         7           7         0.042         2.310         1.226         0.057         100         -001         -001           0.042         2.310         1.226         0.057         0.057         0.057         0.056         -0.067           1000         0.001         0.012         0.024         0.014         0.240         0.062           1170         334         280         117         -         2.7         2.94         2.22           1170         334         280         117         -         2.31         2.31         2.31         2.31           1170         334         280         117         -         2.41         2.31         2.21         2.21           1170         334         280	arameter	Sparta	Sparta	Sparta	Sparta	Sparta	Sparta	Sparta	Sparta
097         16.300         10.774         0.93         9.4         14         20         7           60.74         44.95         52.85         37.23         7.6         100         36         6         1           20.4         44.95         52.85         37.23         7.6         100         36         6         1         2         0.16           0.023         0.011         1.256         0.057         16*         1*         2         0.16         100           0.023         0.012         0.006         0.001*         0.004*         0.001*         0.001*         0.001         0.003           0.158         0.037         0.165         0.006*         0.001*         0.004*         0.003           0.159         0.033         0.011         0.28*         0.011*         0.28*         0.010           110         280         117         -         -         2         2         2           170         384         1.96         0.19         4.23         1.27         2         2         2         2           170         389         7         -         -         2         2         2         2 <td>097         (6300         10.774         0.33         54         14         50         7           29.4         44.95         5.88         37.23         7.6         66         4.3         7           29.4         3.86         5.85         37.23         7.6         16         1         2         0.16           20.01         0.005         0.005         0.007         0.001         -0.001         -0.001         -0.001           0.023         0.037         0.013         0.011         0.24*         0.001*         -0.001         -0.001           0.023         0.012         0.155         0.002*         0.001         -0.001         -0.001         -0.001           0.023         0.012         0.155         0.024*         0.001*         0.001         -0.001           0.159         0.037         0.012         0.155         0.024         0.001*         -0.001           0.140         234         1.56         0.19         -2.23         2.47         -2.57           1.140         234         1.56         0.19         -2.23         2.47         2.57           0.47         0.161         0.12         0.12         0.12</td> <td>Calcium</td> <td>3.57</td> <td>64.419</td> <td>48.524</td> <td>3.38</td> <td>19</td> <td>52</td> <td>87</td> <td>33</td>	097         (6300         10.774         0.33         54         14         50         7           29.4         44.95         5.88         37.23         7.6         66         4.3         7           29.4         3.86         5.85         37.23         7.6         16         1         2         0.16           20.01         0.005         0.005         0.007         0.001         -0.001         -0.001         -0.001           0.023         0.037         0.013         0.011         0.24*         0.001*         -0.001         -0.001           0.023         0.012         0.155         0.002*         0.001         -0.001         -0.001         -0.001           0.023         0.012         0.155         0.024*         0.001*         0.001         -0.001           0.159         0.037         0.012         0.155         0.024         0.001*         -0.001           0.140         234         1.56         0.19         -2.23         2.47         -2.57           1.140         234         1.56         0.19         -2.23         2.47         2.57           0.47         0.161         0.12         0.12         0.12	Calcium	3.57	64.419	48.524	3.38	19	52	87	33
60.74         44.95         52.85         37.23         7.6         100         36         61           2.9         3.86         3.68         3.4         7.6         6.6         4.3         7           0.042         2.310         1.226         0.057         0.017         0.017         5.011         5.016           0.042         0.035         0.011         0.24*         0.07*         0.016         0.016           0.023         0.050         0.005         0.011         0.24*         0.06*         0.052         0.065           0.158         0.037         0.012         0.155         0.026*         0.015*         0.065           0.160         234         240         9.6         1.07         2.24*         2.24*           140         280         117         2.24         1.01         0.11*         0.05*         0.065           139         21.99         24.01         4.23         1.27         284         227*           130         0.43         1.27         28.21         23.73         6.09           139         21.99         24.01         4.23         1.27         28.21         23.73         6.09      <	6074         44.95         52.85         37.23         7.6         6.6         4.3         7           2.9         3.86         3.68         3.4         7.5         6.6         4.3         7           0.002         0.0057         0.0057         0.007         -0.001*         -0.001*         -0.001         -0.001           0.002         0.0053         0.011         0.24*         0.001*         -0.001*         -0.001         -0.001           0.002         0.053         0.011         0.24*         0.014*         0.002*         0.003           0.012         0.028*         0.011         0.24*         0.014*         0.002*         0.003           1.10         334         2.89         1.17         -         2.94         2.22*           1.10         334         2.89         1.17         -         2.94         2.22*           1.10         3.34         1.01         0.13         2.7         2.94         2.22*           1.10         0.13         0.17         1.1.76         0.07         2.0         0.07           1.10         0.13         0.17         1.1.76         0.16         0.10         0.7 <t< td=""><td>fagnesium</td><td>76.0</td><td>16.300</td><td>10.774</td><td>0.93</td><td>9.4</td><td>14</td><td>20</td><td>7</td></t<>	fagnesium	76.0	16.300	10.774	0.93	9.4	14	20	7
2.9         3.86         3.63         3.4         7.6         6.6         4.3         7           0.042         2.310         1.226         0.057         16*         1*         2         0.016           0.030         0.005         0.005         0.007         0.001*         0.006*         0.000         0.000           0.037         0.012         0.016         0.006*         0.002*         0.003         0.003           1.0         0.334         3.40         1.96         117         2         0.015         0.003           0.158         0.037         0.012         0.155         0.006*         0.002*         0.003           1.40         280         117         0.344         1.36         117         2         244         227           1.40         280         0.19         0.19         0.127         2373         6.09           0.43         0.344         1.36         0.19         0.17         11.76         0.26           1.39         7.64         1.01         0.11         4.23         1.27         284.1         227           1.39         7.64         1.01         0.11         6.09         0.07	29         368         3.4         7.5         6.6         4.3         7           0.042         2.310         1.256         0.057         16°         1         2         0.06           0.042         2.310         1.256         0.057         0.011         -0.011         -0.011         -0.011           0.042         0.050         0.063         0.011         0.024*         0.067*         0.067         0.063           -         0.158         0.012         0.155         0.012*         0.012*         0.057         0.061           140         2.34         1.96         0.19         -         0.012*         0.057         0.061           170         334         1.96         0.19         -         2.64         2.27           170         334         1.96         0.19         -         0.01         0.061           0.47         3.44         1.96         0.19         -         2.67         2.27           170         334         1.96         0.19         -         2.69         2.60           1.50         0.43         0.16         0.16         0.16         0.01         2.60           1.70	Sodium	60.74	44.95	52.85	37.23	7.6	100	36	61
0.042         2.310         1.226         0.067         16*         1*         2         0.16           0.000         0         0.005         0.005         0.007*         0.004*         0.001         <.001	0.042         2.310         1.226         0.057         16'         1'         2         0.16           0.003         0.003         0.001         0.001'         0.001'         0.001'         0.001'         0.001'           0.003         0.003         0.012         0.015         0.001'         0.001'         0.003'         0.003'           0.158         0.037         0.012         0.155         0.004'         0.003'         0.003'         0.003           0.158         0.037         0.012         0.155         0.004'         0.001'         0.003           0.140         280         24.01         4.23         1.27         28.21         23.73         6.09           1.39         7.64         1.01         0.11         6.10         0.77         11.76         0.20           1.39         7.64         1.01         0.11         6.90         0.77         11.76         0.20           1.39         7.64         1.01         0.11         6.90         0.77         11.76         0.70           1.30         0.400         0.047         0.166         0.16         0.16         0.71         10.76           1.33         7.64 <t< td=""><td>Potassium</td><td>2.9</td><td>3.86</td><td>3,68</td><td>3.4</td><td>7.6</td><td>6.6</td><td>4.3</td><td>7</td></t<>	Potassium	2.9	3.86	3,68	3.4	7.6	6.6	4.3	7
000         0         0005         0.005         0.001         0.001         0.002         0.002           0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 </td <td>000         0         000         0         000         0         000         0         000                                                                                                     <!--</td--><td>Iron</td><td>0.042</td><td>2.310</td><td>1.226</td><td>0.057</td><td>16*</td><td>1.</td><td>2</td><td>0.16</td></td>	000         0         000         0         000         0         000         0         000 </td <td>Iron</td> <td>0.042</td> <td>2.310</td> <td>1.226</td> <td>0.057</td> <td>16*</td> <td>1.</td> <td>2</td> <td>0.16</td>	Iron	0.042	2.310	1.226	0.057	16*	1.	2	0.16
0.023         0.050         0.063         0.011         0.24*         0.034*         0.063           .         .         .         .         0.028*         0.011*         0.032*         0.003           140         280         240         96         102         372         294         222*           140         280         117         .         .         .         294         222*           170         334         1.96         0.197         .         .         201*         0.035           170         344         1.96         0.197         .         .         .         260           139         7.64         1.01         0.11         .         .         .         201           0.400         0.400         0.14         0.215         0.006         0.14         0.21         23.73         6.09           0.400         0.14         0.210         0.165         0.016         0.14         0.21         2013           0.400         0.14         0.210         0.066         0.166         0.14         0.013           0.400         0.14         0.20         0.006         0.16         0.14     <	0.023         0.050         0.063         0.011         0.24*         0.034*         0.063         0.003           1.158         0.037         0.012         0.012         0.012         0.005*         0.003         0.003           1.160         0.037         0.012         0.012         0.012         0.012         0.005*         0.003           1.10         280         117         -         -         2.97         2.94         2.27           1.70         3.34         1.96         0.19         -         2.07         2.87         2.87           1.70         3.44         1.96         0.19         -         2.37         2.80         2.87           1.89         2.101         4.23         1.27         2.8.21         2.3.73         6.69           1.389         2.149         0.700         0.14         0.20         0.77         11.76         0.76           0.4000         0.14         0.77         0.066         0.77         11.76         0.76           0.1357         0         0.70         0.76         0.16         0.77         11.76         0.71           1.17         0         0.20         0.70         0.77 </td <td>Lead</td> <td>00.0</td> <td>0</td> <td>0.005</td> <td>00.00</td> <td>0.001*</td> <td>&lt;0.001*</td> <td>&lt;0.001</td> <td>&lt;0.001</td>	Lead	00.0	0	0.005	00.00	0.001*	<0.001*	<0.001	<0.001
·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·	·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<	fanganese	0.023	0.050	0.063	0.011	0.24*	0.074*	0.094*	0.052
0.156         0.037         0.012         0.155         0.027         0.015         0.015         0.015         0.015         0.061           140         280         240         96         102         372         294         227           170         334         196         019         -         -         -         267           170         334         196         019         -         -         -         267           170         334         196         019         -         -         -         267           170         344         196         019         -         -         -         267           389         21.99         24.01         4.23         1.27         28.21         23.73         6.09           0.000         0.093         0.226         0.006         0.77         11.76         0.28           0.400         0.093         0.14         0.17         0.164         0.74         0.07           0.140         0.77         0.006         0         0         0         0         0           0.1357         0         0.00         0         0         0         0	0.158         0.037         0.012         0.155         0.028*         0.011*         0.015*         0.061           140         280         240         96         102         372         294         227           140         338         21.99         2401         4.23         1.27         28.1         2.373         6.09           0.017         3.44         1.01         0.11         6.90         0.77         11.76         0.26           1.39         21.99         24.01         4.23         1.27         28.21         23.73         6.09           1.39         7.64         1.01         0.11         6.90         0.77         11.76         0.26           0.000         0.933         0.225         0.000         0.91         0.77         11.76         0.28           0.100         0.14         0.216         0.01         0.16         1.300         0.77           0.100         0.14         0.77         1.466         0.361         1.300           0.000         0.01         0.061         0         0         0         0.74           1.14         2168         0.066         0         0         0         0	Copper		•		•	0.004*	.900.0	0.002*	0.003
140         280         240         96         102         372         294         222 <sup>1</sup> 170         334         1.96         0.19         -         -         267         267           0.47         3.44         1.96         0.19         -         -         267         267           3.89         21.99         24.01         4.23         1.27         28.21         23.73         6.09           1.39         7.64         1.01         0.11         6.90         0.77         11.76         0.28           0.0000         0.093         0.225         0.0000         0.14         0.21         0.17         0.17         0.17           0.1357         0.200         0.14         0.20         0.310         0.066         0.14         0.07           0.0000         0.01         0.77         0.1054         0         0         0         0           0.1357         0         0.020         0.015         0.016         0.16         0.14         0.07           0.1357         0         0.020         0.016         0         0         0         0           1.14         2.16         0.1054         0	140         280         240         96         102         372         294         223           170         334         289         117         -         -         267         -         267           0.47         3.44         1.96         0.19         -         23.73         6.09         260           139         7.64         1.01         0.11         6.90         0.77         11.76         0.29         201           0.000         0.093         0.255         0.000         0.96         0.14         0.07         11.76         0.78           0.000         0.091         0.77         0.16         0.07         11.76         0.78           0.1357         0         0.000         0.96         0.16         0.14         0.07           0.1357         0         0.000         0.065         0.16         0.14         0.07           1.778         8.35         8.17         7.56         0         0.000         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Zinc	0.158	0.037	0.012	0.155	0.028*	0.011*	0.015*	0.061
170         334         289         117         -         -         267           0.47         3.44         1.96         0.19         -         -         -         267           3.89         21.99         24.01         4.23         1.27         28.21         23.73         6.09           1.39         7.64         1.01         0.11         6.90         0.77         11.76         0.28           0.000         0.0633         0.225         0.0000         -         -         -         20           0.400         0.14         0.216         0.16         0.16         0.16         0.14         0.07           0.000         0.14         0.20         0.310         0.06         0         0         0           0.1357         0         0.01         0.77         1.166         0.14         0.07           0.000         0.14         0.210         0.061         0.16         0.16         0.14         0.07           1.78         8.35         8.17         7.56         -         -         -         428           2.00         11.466         0.361         11.36         -         -         -         4	170         334         289         117         -         267           0.47         3.44         1.96         0.19         -         -         20           1.39         7.64         1.01         0.11         6.30         0.77         11.76         0.20           1.39         7.64         1.01         0.11         6.90         0.77         11.76         0.26           0.000         0.047         0.14         0.210         0.000         0         0         0         0           0.000         0.14         0.21         0.310         0.06         0.16         0.14         0.07           0.000         0.14         0.77         0.000         0         0         0         0.07           0.000         0.014         0.77         0.000         0         0         0         0.7           0.000         0.013         0.76         0.000         0         0         0         0         0           1.768         8.35         8.17         7.56         -         0         0         0         0         0           1.59         346         2.91         113         -         -	Alkalinity	140	280	240	96	102	372	294	222
047         344         196         019         -         -         20           389         21.99         24.01         4.23         1.27         28.21         23.73         6.09           139         7.64         1.01         0.11         6.90         0.77         11.76         0.28           0.000         0.093         0.225         0.000         -         0.77         11.76         0.28           0.000         0.14         0.20         0.310         0.06         0.14         0.07           0.000         0.14         0.20         0.310         0.06         0.16         0.14         0.07           0.000         0.14         0.20         0.310         0.06         0.16         0.14         0.07           0.000         0.14         0.20         0.310         0.06         0         0         0.07           0.1357         0         0.07         0.060         0         0         0         0.07           17.8         8.35         8.17         7.56         -         -         -         428           280         6.16         0.1654         0         0.0216         0         0.07	0.47         3.44         1.96         0.19         ·         ·         20           1.39         21.99         24.01         4.23         1.27         2821         23.73         6.09           1.39         7.64         1.01         0.11         6.90         0.77         11.76         0.28           0.000         0.043         0.225         0.000         0         0.6         0.16         0.14         0.03           0.000         0.014         0.20         0.000         0         0         0         0.01           0.000         0.01         0.77         0.000         0         0         0.07         0.07           0.000         0.014         0.20         0.000         0         0         0.07         0.07           0.000         0.0157         0         0.000         0         0         0.07         0.07           1.78         8.35         8.17         7.56         0         0.0216         0         0.07           1.466         0.144         2168         0.08         0         0         0         0           1.146         0.144         2168         0.166         0 <td< td=""><td>icarbonate#</td><td>170</td><td>334</td><td>289</td><td>117</td><td></td><td>1.40</td><td>3</td><td>267</td></td<>	icarbonate#	170	334	289	117		1.40	3	267
3.89         21.99         24.01         4.23         1.27         28.21         23.73         6.09           1.39         7.64         1.01         0.11         6.90         0.77         11.76         0.28           0.000         0.040         0.14         0.225         0.000         -         0.77         11.76         0.28           0.000         0.14         0.20         0.310         0.06         0.14         0.28           0.000         0.14         0.20         0.310         0.06         0.14         0.07           0.000         0.14         0.20         0.310         0.06         0.16         0.14         0.07           0.000         0.14         0.20         0.310         0.06         0.16         0.14         0.07           0.1357         0         0.077         0.000         0         0         0         0.07           7.78         8.35         8.17         7.56         -         -         6.09         -           7.78         8.35         8.17         7.56         -         0         0         0         0         0           7.78         8.35         8.17         7.56<	389         21.99         24.01         4.23         1.27         28.21         23.73         6.09           1.39         7.64         1.01         0.11         6.90         0.77         11.76         0.28           0.000         0.093         0.225         0.000         -         0.14         0.07         11.76         0.28           0.000         0.14         0.20         0.310         0.06         0.14         0.07         11.76         0.03           0.100         0.14         0.20         0.310         0.06         0.14         0.07         10.07           0.100         0.14         0.20         0.000         0         0         0         0         0         0.07         1.016         0.14         0.07           1.78         8.35         8.17         7.56         -         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 </td <td>Carbonate#</td> <td>0.47</td> <td>3.44</td> <td>1.96</td> <td>0.19</td> <td></td> <td>(</td> <td></td> <td>2.0</td>	Carbonate#	0.47	3.44	1.96	0.19		(		2.0
1.39         7.64         1.01         0.11         6.90         0.77         11.76         0.28           0.000         0.093         0.225         0.000         -         0.16         0.14         0.28           0.000         0.143         0.225         0.000         -         0.16         0.14         0.03           0.000         0.143         0.225         0.000         -         0.16         0.14         0.01           0.000         0.01         0.77         0.000         0         0         0         0         0           0.000         0.01         0.77         0.000         0         0         0         0         0           0.1357         0         0.01         0.77         0.000         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td< td=""><td>1.39         7.64         1.01         0.11         6.90         0.77         11.76         0.28           0.0000         0.0430         0.225         0.0000        </td><td>Chloride</td><td>3.89</td><td>21.99</td><td>24.01</td><td>4.23</td><td>1.27</td><td>28.21</td><td>23.73</td><td>6.09</td></td<>	1.39         7.64         1.01         0.11         6.90         0.77         11.76         0.28           0.0000         0.0430         0.225         0.0000	Chloride	3.89	21.99	24.01	4.23	1.27	28.21	23.73	6.09
0.000         0.093         0.225         0.000          NA           0.400         0.14         0.226         0.000         0.14         0.07           0.000         0.14         0.20         0.310         0.06         0.16         0.14         0.07           0.000         0.14         0.20         0.310         0.06         0         0         0         0           1           0.146         0.20         0.310         0.06         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 </td <td>0.000         0.093         0.225         0.000         0.14         0.21         0.007           0.400         0.14         0.20         0.310         0.06         0.16         0.14         0.07           1         0.400         0.14         0.20         0.310         0.06         0         0         0         0.01           1         0.000         0.01         0.77         0.000         0         0         0         0.01           1         0.1357         0         0.017         0.000         0         0         0         0         0           1         0.1357         0         0.047         0.1054         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td> <td>Sulfate</td> <td>1.39</td> <td>7.64</td> <td>1.01</td> <td>0.11</td> <td>6.90</td> <td>0.77</td> <td>11.76</td> <td>0.28</td>	0.000         0.093         0.225         0.000         0.14         0.21         0.007           0.400         0.14         0.20         0.310         0.06         0.16         0.14         0.07           1         0.400         0.14         0.20         0.310         0.06         0         0         0         0.01           1         0.000         0.01         0.77         0.000         0         0         0         0.01           1         0.1357         0         0.017         0.000         0         0         0         0         0           1         0.1357         0         0.047         0.1054         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Sulfate	1.39	7.64	1.01	0.11	6.90	0.77	11.76	0.28
0.400         0.14         0.200         0.310         0.06         0.16         0.14         0.07           0.000         0.01         0.77         0.000         0         0         0         0         0         0.01           .         0.000         0.01         0.77         0.000         0         0         0         0         0         0         0         0         0.013           .         0.1357         0         0.017         0.000         0         0         0         0         0         0         0         0         0.07           .         0.1357         0         0.047         0.1054         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	0.400         0.14         0.20         0.310         0.06         0.16         0.14         0.07           0.000         0.01         0.77         0.000         0         0         0         0         0         0         0.01           1.466         0.01         0.77         0.000         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Bromide	0.000	0.093	0.225	0.000				NA
0.000         0.01         0.77         0.000         0         0	0.000         0.01         0.77         0.000         0         0         0                        0.013         0         0         0         0         0                           0.013 <td>Fluoride</td> <td>0.400</td> <td>0.14</td> <td>0.20</td> <td>0.310</td> <td>0.06</td> <td>0.16</td> <td>0.14</td> <td>0.07</td>	Fluoride	0.400	0.14	0.20	0.310	0.06	0.16	0.14	0.07
···         ···         ···         0.513         1.466         0.361         1.300           ···         0.1357         0         0.047         0.1054         0         0         1.466         0.361         1.300           7.78         8.35         8.17         7.56         -         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2 <td>···         ···         ···         0.513         1.466         0.361         1.300           ···         0.1357         0         0.047         0.1054         0         0.061         1.300           ···         7.78         8.35         8.17         7.56         -         -         -         8.2           280         616         536         195         -         -         -         48.2           -         159         51         195         -         -         -         428           -         159         346         291         113         -         -         428           -         59         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -</td> <td>Nitrate ***</td> <td>0.000</td> <td>0.01</td> <td>0.77</td> <td>0.000</td> <td>0</td> <td>0</td> <td>0</td> <td>&lt;0.013</td>	···         ···         ···         0.513         1.466         0.361         1.300           ···         0.1357         0         0.047         0.1054         0         0.061         1.300           ···         7.78         8.35         8.17         7.56         -         -         -         8.2           280         616         536         195         -         -         -         48.2           -         159         51         195         -         -         -         428           -         159         346         291         113         -         -         428           -         59         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Nitrate ***	0.000	0.01	0.77	0.000	0	0	0	<0.013
0.1357         0         0.047         0.1054         0         0         0         0         0           7.78         8.35         8.17         7.56         -         -         8.2           280         616         536         195         -         -         428           280         616         536         195         -         -         428           280         11,44         21,68         0.08         -         -         428           0         0.00         11,44         21,68         0.08         -         -         428           159         346         291         113         -         -         -         -         -           59         -         -         -         -         -         -         -         -         -           59         -         -         -         -         -         -         -         -         -	···         0.1357         0         0.047         0.1054         0         0.07           7.78         8.35         8.17         7.56         -         -         6.2           280         616         536         1955         -         -         6.2           280         618         536         17         7.56         -         -         6.3           280         618         536         1955         -         -         -         428           280         11.44         21.68         0.08         -         -         428           159         345         291         113         -         -         -         428           59         -         -         -         -         -         -         -         -         -           59         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Ammonia	•			•	0.513	1.466	0.361	1.300
7.78         8.35         8.17         7.56         -         8.2 <sup>1</sup> 280         616         536         195         -         428           280         616         536         195         -         428           0         0         11.44         21.68         0.08         -         -         428           159         346         291         113         -         -         -         -         -         -           59         .         113         -         1         1         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <td>7.78         8.35         8.17         7.56         -         -         8.2<sup>3</sup>           280         616         536         195         -         -         6.2<sup>3</sup>           159         345         291         113         -         6         -         -         428           159         345         291         113         -         6         -         -         428           159         345         291         113         -         -         -         428           59         -         -         1         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -<td>ophosphate **</td><td>0.1357</td><td>0</td><td>0.047</td><td>0.1054</td><td>0</td><td>0.0216</td><td>0</td><td>0.07</td></td>	7.78         8.35         8.17         7.56         -         -         8.2 <sup>3</sup> 280         616         536         195         -         -         6.2 <sup>3</sup> 159         345         291         113         -         6         -         -         428           159         345         291         113         -         6         -         -         428           159         345         291         113         -         -         -         428           59         -         -         1         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <td>ophosphate **</td> <td>0.1357</td> <td>0</td> <td>0.047</td> <td>0.1054</td> <td>0</td> <td>0.0216</td> <td>0</td> <td>0.07</td>	ophosphate **	0.1357	0	0.047	0.1054	0	0.0216	0	0.07
280         616         536         195         -         428           -         -         -         -         -         428           -         -         -         -         -         428           0.00         11.44         21.68         0.08         -         -         -           159         346         291         113         -         -         -         -           59         -         -         113         -         -         -         -         -           69         -         -         -         1         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	280         616         536         195         -         428           -         -         -         -         -         428           -         -         -         -         -         428           -         0.00         11.44         21.68         0.08         -         -         -         428           159         346         291         113         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	H	7.78	8.35	8.17	7.56				8.2"
0.00     11.44     21.68     0.08     -     -       159     346     291     113     -     -       59     -     -     1     -     -       51     -     -     -     -     -	0.00         11.44         21.68         0.08         -         -         -           159         346         291         113         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	onductivity	280	616	536	195			•	428
0.00         11.44         21.68         0.08         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	0.00         11.44         21.68         0.08         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Turbidity					3			
159         346         291         113         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	159         346         291         113         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	TSS	0.00	11,44	21.68	0.08	1			
59         -         1         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	59       -       1       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	TDS	159	346	291	113		•		
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the state of the second state and the helding from in C months three these	were conducted within 180 days and the holding time is 6 months, thus these g time. e sample Filtered in instrument through 0.20 um pore-size membrane 3N wells are ANRC wells, other wells are private	E. coli	41	1		5	•	•		
	were conducted writin rou days and the holoing time is o months, thus these g time. I time. I time a sample Filtered in instrument through 0.20 um pore-size membrane 3N wells are ANRC wells, other wells are private			and the second second		and a second radius	A utilities 400 date	and the holds	a time is B mon	the three these and inchese
	Orthophosphate is measured by IC, therefore sample Filtered in instrument through 0.20 um pore-size memorane     Not analyzed SW, SP, and BN wells are ANRC wells, other wells are private		ABI CE DOMOLA	A LINE IN LINE A		the second se	and the second se	1 0 0 0 T	and all all and all all all all all all all all all al	
	SW, SP, and BN wells are ANRC wells, other wells are		udsoudoutio	ate is measured	by IC, therefor	e sample Filter	ed in instrument	through 0.20 un	n pore-size mer	morane
**Orthophosphate is measured by IC, therefore sample Filtered in instrument through 0.20 um pore-size membrane			- Not analyzed		SW, SP, and B	wells are		are		
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**Orthophosphate is measured by IC, therefore sample Filtered in instrument through 0.20 um pore-size membrane     Not analyzed SW, SP, and BN wells are ANRC wells, other wells are private										

3.3.214         3.3.3810         3.3.3810         3.3.3810         3.3.3810         3.3.3810         3.3.3813         3.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.4040         5.3.404         5.3.404         5.3.404         5.3.404         5.3.404         5.3.404         5.3.404         5.3.404         5.3.404         5.3.404         5.3.404         5.3.404         5.3.404         5.3.404         5.3.40         5.3.40         5.3.40         5.3.40         5.3.40         5.3.40         5.3.40         5.3.40         5.3.40         5.3.40         5.3.40         5.3.40         5.3.40         5.3.40         5.3.40         5.3.40         5.3.40         5.3.40	Well ID	0A1-SP7	0A2-SP8	0A2-SP8	0.42-2F0	CI1-3W34	CEWS-1HA	acme-tert	
92:055         93:0006         93:0006         91:03:3         91:03:5         9           Unifieed         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07         0601/07 <td>Location</td> <td>333234</td> <td>333819</td> <td>333819</td> <td>333819</td> <td>331818</td> <td>331640</td> <td>334916</td> <td>360737</td>	Location	333234	333819	333819	333819	331818	331640	334916	360737
05/3007         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         06/01/07         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01         0/01		925055	930006	930006	930006	912334	913958	911825	941803
Unfiltered         Filtered	Sampling date	05/30/07	06/01/07	06/01/07	06/01/07	06/06/07	06/07/07	06/08/07	06/15/07
Sparta         Sparta         Sparta         Sparta         Sparta         Sparta         Sparta         Sparta         Alluvial         Alluvia         Alluvia         Alluvia	Sample	Unfiltered	Unfiltered	Filtered	Filtered	Filtered	Filtered	Filtered	Filtered
17         33         3.0         3.0         3.0         3.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0         5.0	Parameter	Sparta	Sparta	Sparta	Sparta	Alluvial	Alluvial	Alfuvial	Boone
4.3         1.7         1.4         1.4         1.4         1.4         1.4         6.2         3.0         6.2         3.0         1.0           19         2.5         2.5         2.5         3.7         3.0         3.0         5.1         0.12         6.5         6.5           3.7         5.9         3.0         3.0         3.0         5.1         0.12         6.005         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055         5.0055	Calcium	17	3.3	3.0	3.0	304	25	94	51
19         2.6         2.5         2.5         3.7         3.9         60         60           3.7         2.1         1.8         1.7         3.9         0.89         2.8         2.8           3.7         2.1         1.8         1.7         3.9         0.09         5.0         5.6           0.11         0.056         -0.005         -0.016         0.12         5.5         1.1           0.11         0.255         0.076         -0.005         -0.005         -0.005         -0.005         -0.005           0.011         0.053         0.076         0.075         0.012         0.014         -1.1           8.6         1.2         0.076         -0.015         -0.012         0.014         -1.1           8.7         1.6         NA         1.19         0.012         -0.014         NA           8.6         0.12*         5.6         0.74         0.014         NA         NA           NA         NA         NA         NA         NA         NA         NA         NA           10.7*         0.014*         NA         NA         NA         NA         NA           10.7*         0.24	Magnesium	4.3	1.7	1.4	1.4	146	6.2	30	3.9
3.7         2.1         1.8         1.7         3.9         0.89         2.8         5.1         0.12         6.5         5.1         0.12         6.5         5.1         0.12         6.5         5.1         0.12         6.5         5.1         0.012         6.5         5.1         0.012         6.5         5.1         0.012         6.5         5.0         0.014            0.11         0.255         0.055         0.005         -0.005         -0.005         -0.005         -0.005         -0.005         -0.014          0.014          0.014          0.014          0.014          0.014          0.014          0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014         0.014	Sodium	19	2.5	2.5	2.5	376	30	60	14
39         59         59         30         31         61         65           0111         0006         <005	Potassium	3.7	2.1	1.8	1.7	3.9	0.89	2.8	2.9
0011         0.006         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005 <td>Iron</td> <td>3.9</td> <td>5.9</td> <td>3.0</td> <td>3.0</td> <td>5.1</td> <td>0.12</td> <td>6.5</td> <td>0.03</td>	Iron	3.9	5.9	3.0	3.0	5.1	0.12	6.5	0.03
0.11         0.25         0.16         0.16         1.2         0.02         1.1           0.011         0.005         <0.005	Lead	0.011	0.006	<0.005	<0.005	<0.02	<0.005	<0.005	<0.01
0.011         0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.005         <0.014         NA         547         141         404               <0.014         NA	Mancanese	0.11	0.25	0.16	0.16	1.2	0.02	1,1	0.06
0.063         0.075         0.076         0.076         0.012         0.014         N           88*         12*         16*         NA         450         116         332         332         1           88*         12*         16*         NA         450         116         332         332         1         1         404         1         332         1         1         1         4         4         4         1         1         4         4         4         1         1         1         4         4         1         1         4         4         1         1         4         4         1         1         4         4         1         1         4         4         1         4         4         1         1         4         4         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Conner	0.011	0.005	<0.005	<0.005	<0.02	<0.005	<0.005	0.010
88*         12*         16*         NA         450         116         332         1           107*         15*         20*         NA         547         141         404         1           107*         15*         20*         NA         947*         1981         82.57         4           107*         15*         5001*         5001*         NA         947*         1981         82.57         4           323         3.18         3.18         NA         947*         19.81         0.54         0.54         14         404         14         14         404         14         14         140         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14	Zinc	0.063	0.055	0.076	0.075	0.030	0.012	0.014	<0.010
107*         15*         20*         NA         547         141         404           0<12*	Alkalinitu	88*	12*	16*	VN	450	116	332	152
0         0.12*         < 0.01*         < 0.01*         < 0.01*         < 0.01*         0.054         0.054           3.23         3.18         3.18         3.18         NA         947*         19.81         82.57            7.62         2.55         NA         NA <td< td=""><td>Bicarbonate#</td><td>107*</td><td>15*</td><td>20.</td><td>VN</td><td>547</td><td>141</td><td>404</td><td>183</td></td<>	Bicarbonate#	107*	15*	20.	VN	547	141	404	183
3.23         3.18         3.18         3.18         3.18         3.18         3.18         3.18         3.18         3.18         3.18         8.2.57         8.2.57         8.2.57         8.2.57         8.2.57         8.2.55         NA         <	Carbonate#	0.12*	< 0.01*	< 0.01*	NA	1.19	0.11	0.54	0.98
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Chloride	3.23	3.18	3.18	NA	947*	19.81	82.57	10.13
NA         0.014         NA         NA <th< td=""><td>Sulfate</td><td>7.62</td><td>2.56</td><td>2.55</td><td>NN</td><td>447*</td><td>3.34</td><td>28.55</td><td>3.89</td></th<>	Sulfate	7.62	2.56	2.55	NN	447*	3.34	28.55	3.89
0.02         0.03         0.05         NA         3.22         0.28         0.14           0.011*         0.007*         0.014*         NA         0.015         0.28         0.14           0.011*         0.007*         0.014*         NA         0.015         0.28         0.099           •         0.62*         0.014*         NA         0.015         0.535         0.099           •         0.61         NA         0.015         0.03*         0.03*         0.05*           7.4*         5.7*         6.2*         NA         NA         NA         NA         NA           NA         NA         NA         NA	Bromide	NA	VN	VN	VN	NA	NA	NA	VZ
0.011*         0.007*         0.014*         NA         0.015         0.035         0.009           **         0.62         0.24         <0.01	Fluoride	0.02	0.03	0.05	NN	3.22	0.28	0.14	0.45
0.62         0.24         <0.01         NA         0.64         <0.01         0.56           7.4*         5.7*         0.04*         NA         0.02*         0.13*         0.03*         0.03*           7.4*         5.7*         6.2*         NA         7.7*         7.2*         7.5*         7.5*           7.4*         5.7*         6.2*         NA         NA         NA         NA         NA           NA         NA         NA         NA         NA         NA         NA         NA           • Exceeded holding ti	Nitrate	0.011*	0.007*	0.014*	VN	0.015	0.535	0.009	0.459
***         0.38*         0.06*         0.04*         NA         0.02*         0.13*         0.03*           7.4*         5.7*         6.2*         NA         7.7*         7.2*         7.5*         0.03*           177*         42*         47*         NA	Ammonia	0.62	0.24	<0.01	VN	0.64	<0.01	0.56	0.11
7.4*         5.7*         6.2*         NA         7.7*         7.2*         7.5*         7.5*           177*         42*         47*         NA         So tht	Orthophosphate **	0.38*	•90.0	0.04*	VN	0.02*	0.13*	0.03*	0.01
177*         42*         47*         NA         NA         306*         904*           NA         Imana         Ima	Ha	*P'L	5.7*	6.2*	VN	1.7*	12*	7.5*	8.1*
NA         NA<	Conductivity	177*	42*	47*	VN	3720*	306*	*106	247
NA     NA     NA     NA     NA     NA     NA     NA       NA     NA     NA     NA     NA     NA     NA       NA     NA     NA     NA     NA     NA     NA       NA     NA     NA     NA     NA     NA     NA       NA     NA     NA     NA     NA     NA     NA       NA     NA     NA     NA     NA     NA     NA       NA     NA     NA     NA     NA     NA     NA       NA     NA     NA     NA     NA     NA     NA       NA     NA     NA     NA     NA     NA     NA       Image: State     SW.SP. and BN wells are ANRC wells, other wells are prive     Interface     Interface       Image: State     Ma     SW.SP. and BN wells are ANRC wells, other wells are prive     Interface     Interface       Image: State     Image: State     SW.SP. and BN weles are an anthrough 0.20 um pore size <td>Turbidity</td> <td>NA</td> <td>NA</td> <td>VN</td> <td>NA</td> <td>VN</td> <td>VN</td> <td>NA</td> <td>VN</td>	Turbidity	NA	NA	VN	NA	VN	VN	NA	VN
NA         NA<	TSS	NA	NA	VN	NA	NN	VN	VN	VN
NA     NA     NA     NA     NA     NA     NA     NA       NA     NA     NA     NA     NA     NA     NA     NA       ***Orthophosphate is measured by IC, therefore sample filtered in instrument through 0.20 um pore-size     ***Orthophosphate is measured by IC, therefore sample filtered in instrument through 0.20 um pore-size       ***Orthophosphate is measured by IC, therefore sample filtered in instrument through 0.20 um pore-size       ***Orthophosphate is measured by IC, therefore sample filtered in instrument through 0.20 um pore-size       ***Orthophosphate is measured by IC, therefore sample filtered in instrument through 0.20 um pore-size       ***Orthophosphate is measured by IC, therefore sample filtered in instrument through 0.20 um pore-size       ***     ***       ***     ***	TDS	NA	VN	VN	VN	VN	NA	VN	NN
NA     NA     NA     NA     NA     NA     NA       • Exceeded holding time     SW, SP, and BN wells are ANRC wells, other wells are private     ••••••••••••••••••••••••••••••••••••	Total Coliform	NA	VN	NA	NN	VN	NA	VN	>2420
Exceeded holding time SW, SP, and BN wells are ANRC wells.     "••Orthophosphate is measured by IC, therefore sample filtered in instrument throug membrane # Bicarbonate and carbonate concentrations were calculated from measured alkali NA = not analyzed	E coli	VN	VN	VN		VN	NA	VN	23
***Orthophosphate is measured by IC, therefore sample filtered in instrument through 0.20 um pore-size     membrane     # Bicarbonate and carbonate concentrations were calculated from measured alkalinity and pH     NA = not analyzed		· Exceeded h	olding time		SW, SP, and	BN wells are	ANRC wells, o	ther wells are	private
membrane membrane # Bicarbonate and carbonate concentrations were calculated from measured alkalinity and pH NA = not analyzed		···Orthophosp	hate is measu	red by IC, the	refore sample	filtered in instr	rument through	0.20 um pore	-Size
ate and carbonate natyzed		membrane							
NA = not analyzed		# Bicarbonate	e and carbonal	be concentration	ons were calcu	ulated from me	asured alkalini	ty and pH	
		NA = not ana	lyzed						

Appendix G

Ozark Aquifer Water Level Data

County		A NUMBER OF STREET	The second se	and the second se					1000				2004 2005
	Station	Latudo	rongitude	Ceptu	2	0000	Date	INNE	1007	TAL IO	-	INDE-LOOP	1007-1007
					ALT.			WL meas	ML	ALT	ALT	WL Change	M
Baxter	19N11W31DAA1	361609.67	0921143.33	193	640	367CTTR	3/8/2007	83.62	556.38	555.03	552.01	4.37	1.35
Baxter	19N14W29DBC1	361714.18	0923025.53	1625	720	367GNTR	3/8/2007	58.39	661.61	663.73	663.45	-1.84	-2.12
Baxter	20N11W35CCA1	362113.76	0921422.92	295	600	367CTTR	2/22/2007	32.24	567.76	564.56	559.06	8.70	3.20
Baxter	20N12W23CBA1	362309.28	0921418.72	550	600	367RBDX	2/22/2007	85.46	514.54	547.47	542.96	-28.42	-32.93
Baxter	20N13S14ABC1	362435.41	0922026.15	493	580	367CTTR	2/22/2007	29.03	550.97	545.61	540.60	10.37	5.36
Baxter	20N13W13ABD1	362430.93	0921911.63	209	620	367CTTR	3/8/2007	67.63	552.37	647.98	540.76	11.61	4.39
Baxter	21N12W33ACB1	362700.02	0921558.31	500	610	367RBDX	2/22/2007	31.47	578.53	567.07	557.86	20.67	11.46
										1000000000			
									å	Declines/Wells:	lis:	2/7	2/7
									AVI	AverageChange	:eBi	3.64	-1.33
									The second second	The second second	Second Second		
Benton	19N29W07DAA1	361953.87	0940618.46	1659	1210	367GNTR	2/26/2007	140.92	1069.08	1065.32	1059.27	9.81	3.76
Benton	20N33W14ACD1	362456.00	0942723.10	1600	1185	367GNTR	2/26/2007	419.66	765.34	758.22	758.17	7.17	7.12
Benton	21N29W35DDB2	362635.83	0940137.97	1769	1405	367GNTR	2/28/2007	348.82	1056.18	1062.85	1063.51	-7.33	-6.67
									å	Declines/Wells:	lls:	1/3	1/3
									Ave	Average Change:	:e6	3.22	1.40
											1.000		
Boone	18N19W19BCC1	361149.75	0930257.77	1649	1150	367GNTR	2/28/2007	238.18	911.82	925.34	927.73	-15.91	-13.52
Boone	21N18W20CCD1	362702.95	0925502.67	1415	880	371POTS	2/27/2007	240.00	640.00	642.76	637.88	2.12	-2.76
										Suc. 151			
									De	Declines/Wells:	lls:	1/2	2/2
									Ave	Average Change:	:96:	-6.90	-8.14
Carroll	19N23W08ADD1	361917.69	0932633.25	2300	1355	367GNTR	2/27/2007	247.31	1107.69	1101.27	1098.05	9,64	6.42
Carroll	20N26W16DCA1	362339.53	0934457.65	1332	1198	367GNTR	2/27/2007	137.38	1060.62	1061.60	1064.14	-3.52	-0.98
Carroll	20N26W23ACA1	362312.82	0934253.17	1713	1335	371POTS	2/27/2007	287.85	1047.15	1047.90	1048.05	-0.90	-0.75
Carroll	21N26W10CDC1	362938.61	0934411.55	1122	1090	367GNTR	2/27/2007	161.14	928.86	992.70	993.46	-64.60	-63.84
									ŏ	Declines/Wells:	lis:	3/4	3/4
									Ave	Average Change:	:eßc	-14.84	-14.79
Fulton	19N06W23AAD1	361727.77	0913503.45	1630	680	367GNTR	3/8/2007	205.88	474.12	453.33	458.86	15.26	20.79

Ozark Aquifer Water Level Data '01-'04-'07

Data collected by USGS

Ozark Aquifer Water Level Data '01-'04-'07

	2002-1002	WL Change	-7.90	RA 21	14 04		-3.39	4.61	1/4	19.12	5.23	-0.94	-13,45	-65.89	1.66	2/3	-25.89	-1.41	-0.96	-2.00	-1.47	4.37	2.02	4/6	0.09	5.29	-4.79	1/2	0.25	18/35	-1.81	51.42%
Total Case	2004-2007	WL Change WL Chang	-8.39	77 85	40.65	00.01	-2.65	9.51	1/4	25.82	-0.16	-2.01	-2.76	-64.26	3.66	2/3	-21.12	-2.99	-2.88	-3.69	-3.43	0.09	1.65	4/6	-1.88	4.17	4.49	1/2	-0.16	17/35	-0.14	48.57%
A CONTRACTOR OF	DA ML	ALT	498.70	603 KK	E40.40	040.10	718.83	831.78	ls:	:06:	809.60	309.69	708.48	787.94	813.33	ls:	:00:	543.26	557.05	360.27	444.83	483.12	528.72	ls:	:e6	1152.05	1149.68	ls:	ge:	Vells:	ange:	
1000	01 ML	ALT	498.21	R17 10	662.64	10.000	719.57	836.68	Declines/Wells:	Average Change:	804.21	308.62	719.17	789.57	815.33	Declines/Wells:	Average Change:	541.68	555.13	358.58	442.87	478.84	528.35	Declines/Wells:	Average Change:	1150.93	1149.98	Declines/Wells:	Average Change:	Total Declines/Wells:	Total Average Change:	
1000	2007	ML	490.31	F.0.1 40	ECA CE	00.000	716.18	841.29	Dec	Ave	809.44	307.68	705.72	723.68	816.99	Dec	Ave	540.27	554.17	356.58	441.40	483.21	530.37	Dec	Ave	1158.22	1145.19	Dec	Avei	Total	Total A	
2000	2007	WL meas	47.69	102 60	370.26	CC.017	38.82	20.71			60.56	53.32	354.28	201.32	183.01			104.73	95.83	60.42	83.60	141.79	53.63			38.78	19.81					
	Date	4	3/1/2007	10000000	10000000	INNER	2/28/2007	2/23/2007			3/9/2007	3/7/2007	2/28/2007	2/28/2007	2/28/2007			3/7/2007	3/7/2007	3/7/2007	3/7/2007	3/7/2007	3/7/2007			2/26/2007	2/26/2007					
10,-40,-10,	Gode		367RBDX	267DRDX	+	÷	367RBDX	367CTTR			364EVRN	367CRJF	367GNTR	368PWLL	364PLTN			364EVRN	367CTTR	367CTTR	367CTTR	367GNTR	367RBDX			367GNTR	367GNTR					
	2	ALT.	538	684		10	755	862			870	361	1060	925	1000			645	650	417	525	625	584			1195	1165					
	Depth		1729	000	2000	201	1392	180			190	128	3534	950	485			482	1000	425	900	1525	611			2097	2485					
	Longitude		0920626	0023526 60	0004104 22	00/17/1720	0925049.70	0924918.58			0931130.23	0910943.81	0923401.13	0924133.48	0924024.71			0913317.54	0913654	0912804.43	0913854	0913637.77	0912336.97			0941807.14	0941857.56					
	Latitude		360753	381833 63	A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	201447.14	361512.25	362225.43			360014.42	361350.03	355125.85	355749.78	355416.32			355812.22	360023	360817.71	360604	361325.14	361813.01			355902.73	355652.45					
	Station		17N11W13AAD1	10N15M20ACC1		I SUN IOVOCUPI	19N18W36BDC1	20N17W19ABC2			16N21W34ABC1	18N02W02CAC1	14N15W15AAC1	15N16W09BBA1	15N16W34BAD1			15N05W06DDD1	16N06W27ACC1	17N05W12BDC1	17N06W29ABC1	18N06W10CBC1	19N04W15BAA1			15N31W17BBD1	15N31W30CAD1					
	County		Izard	Marine	Marian	Marron	Marion	Marion			Newton	Randolph	Searcy	Searcy	Searcy			Sharp	Sharp	Sharp	Sharp	Sharp	Sharp			Washington	Washington					

\* Data collected by USGS