

2017 Oklahoma Streams Report

Beneficial Use Monitoring Program

INTRODUCTION

It is the intent of this Oklahoma Water Resources Board (OWRB) report to advance concepts and principles of the Oklahoma Comprehensive Water Plan (OCWP). Consistent with a primary OCWP initiative, this and other OWRB technical studies provide invaluable data crucial to the ongoing management of Oklahoma's water supplies as well as the future use and protection of the state's water resources. Oklahoma's decision-makers rely upon this information to address specific water supply, quality, infrastructure, and related concerns. Maintained by the OWRB and updated every 10 years, the OCWP serves as Oklahoma's official long-term water planning strategy. Recognizing the essential connection between sound science and effective public policy, incorporated in the Water Plan are a broad range of water resource development and protection strategies substantiated by hard data – such as that contained in this report – and supported by Oklahoma citizens.

Protecting Oklahoma's valuable water resources is essential to maintaining the quality of life for all Oklahomans. Used for a myriad of purposes—such as irrigation, hydropower, public/private water supply, navigation, and a variety of recreational activities—the state's surface and groundwater provides enormous benefits to Oklahoma from both an economic and recreational standpoint.

The National Recreation Lakes Study Commission (NRLSC) estimates that 32,100 people in Oklahoma are employed in support of activities related to our numerous man-made lakes. Also according to the NRLSC, 18,718,000 visitor days are spent on Oklahoma lakes each year and recreation in and around these lakes contributes approximately \$2.2 billion each year to Oklahoma's economy. Of additional value are the recreational benefits associated with our smaller municipal/watershed projects, Oklahoma Department of Wildlife lakes, and rivers and streams throughout the state, which infuse millions into state coffers through fishing, hunting, camping and related activities. (In 1987, the Oklahoma Comprehensive Outdoor Recreation Plan estimated that approximately \$10.7 million was realized through camping and \$15.2 million through hunting/fishing.¹) According to a 2001 federal study, fishing activities alone contribute \$476,019 dollars to Oklahoma's economy, not including the substantial ancillary costs associated with that extremely popular sport.²

In addition to surface waters, abundant groundwater also fuels the state's economy serving as supply for thousands municipalities, rural water districts, industrial facilities, and agricultural operations. According to the 2012 update of the Oklahoma Comprehensive Water Plan (OCWP), groundwater represents the primary water supply for approximately 300 cities and towns and comprises 43 percent of the total water used in the state each year.³ Groundwater resources also supply approximately 90 percent of the state's irrigation needs, and around 8% of Oklahoma's citizens obtain their drinking water from private wells.

Oklahoma works to protect and manage its water resources through a number of initiatives, with the Oklahoma Water Quality Standards (OWQS) serving as the cornerstone of the state's water quality management programs. The Oklahoma Water Resources Board (OWRB) is designated

¹ Oklahoma Statewide Comprehensive Outdoor Recreation Plan (SCORP), 1987.

² U.S. Department of Interior, Fish and Wildlife Service, and U.S. Department of Commerce, U.S. Census Bureau. *2001 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation.*

³ Oklahoma Water Resources Board, *Update of the Oklahoma Comprehensive Water Plan, 1995.*

by state statute as the agency responsible for promulgating water quality standards and developing or assisting the other environmental agencies with implementation framework. State agencies are responsible for implementing the OWQS as outlined by the OWRB through development of Implementation plans. Protecting our waters is a cooperative effort between many state agencies and because the OWQS are utilized by all agencies and represent a melding of both science and policy, they are an ideal mechanism to assess the effectiveness of our diverse water quality management activities.

The OWQS are housed in OAC 785:45 and consist of three main components: beneficial uses, criteria to protect beneficial uses, and anti-degradation policy. An additional component, which is not directly part of the OWQS but necessary to water resource protection, is a monitoring program. A monitoring program is required in order to ensure that beneficial uses are maintained and protected. If uses are not being maintained, the cause of that impairment must be identified and restoration activities should be implemented to improve water quality such that it can meet its assigned beneficial uses.

All state agencies are currently required to implement Oklahoma's Water Quality Standards within the scope of their jurisdiction through the development of an Implementation Plan specific for their agency. This process, called OWQS Implementation, allows the OWQS to be utilized by other state agencies in the performance of their regulatory (statutory) responsibilities to manage water quality or to facilitate best management practice initiatives.

In the late 1990's, the need for a protocol to determine beneficial use impairment was identified, which would facilitate state agencies in directing their time and money to the areas in most need of protection or remediation. The OWRB, working in close concert with other state environmental agencies and other concerned parties developed Use Support Assessment Protocols (USAP) to be used by all parties for assessing if a water body was meeting its assigned beneficial uses. In addition, protocols were developed which could be coupled with a trend monitoring system to detect threatened waters before they become seriously impaired. Data collection efforts connected with protocol development and/or implementation also serves a vital purpose in refining numerical criteria currently included in the OWQS and in developing appropriate numerical and narrative criteria for future OWQS documents. It is essential that our waters meet assigned uses and that OWQS implementation protocols are appropriate. Please see the OWRB website for the applicable Oklahoma Administrative Code OAC 785:46 related to the USAP. Final approval of the USAP occurred in 2000 and the OWRB has constantly worked to refine the existing protocols and pursue the addition or modification of USAP protocols to further enhance its utility and effectiveness.

Work to be performed towards development and implementation of the critical fourth component of the OWQS program, monitoring, is the subject of this report. All sampling activities described and conducted as part of this program were consistent with the Oklahoma USAP. It is also important to note that they are consistent with Environmental Protection Agency (EPA) reporting requirements for the "*Integrated Water Quality Monitoring and Assessment Report*", §319 Nonpoint Source (NPS) Assessment, and the §314 Lake Water Quality Assessment (LWQA).

Background & Problem Definition

The State of Oklahoma has historically had numerous monitoring programs conducted by several state and federal agencies. In general, each environmental agency conducts their monitoring programs with some degree of integration and coordination with other state,

municipal, or federal programs. Most water quality monitoring programs in Oklahoma are designed and implemented by each agency to collect information for one specific purpose or project (i.e. development of Total Maximum Daily Loads, OWQS process, lake trophic status determination, water quality impacts from point source dischargers, stream flow measurements, document success of best management practices, etc.). Information of this type is very specific to each individual project's data quality objectives (DQOs) and is often limited to a very small geographic area. This document describes sampling activities the OWRB has historically conducted on lakes and efforts that are currently on going on lakes and streams across Oklahoma as part of a comprehensive, long-term, statewide Beneficial Use Monitoring Program (BUMP). The goal of the BUMP is to detect and quantify water quality trends, document and quantify impairments of assigned beneficial uses, and identify pollution problems before they become a pollution crisis.

The state is taking a major step towards coordinating sampling activities with the creation of a "Water Quality Monitoring Council" comprised of representatives from state, local, and federal agencies as well as universities, industries, volunteer groups, Indian tribes, and environmental organizations. This Council as envisioned would serve a useful purpose in providing an avenue for communication between the various groups and will allow the state to coordinate water quality monitoring in a more effective manner. The Council will focus on coordinating agency activities and help the state avoid duplication of effort. Coordination between all concerned parties is obviously essential, but a comprehensive basic monitoring initiative to support the OWQS implementation process must be pursued to identify waters which are not meeting their assigned beneficial uses and thus ensure that Oklahoma's water resources are protected from water quality degradation. The Council will also be pivotal in ensuring consistency between data collection efforts. The Monitoring Council will function in a coordinating capacity, which will maximize monitoring efforts.

Beneficial Use and Monitoring Program Overview

The overall goal of the Beneficial Use Monitoring Program is to document beneficial use impairments, identify impairment sources (if possible), detect water quality trends, provide needed information for the OWQS, and facilitate the prioritization of pollution control activities.

Beneficial Use Monitoring Program Components

- **Monitoring Rivers & Streams** - The OWRB is currently monitoring approximately eighty-four (84) stations six times annually. Fixed station monitoring is based largely upon the eighty-four (84) planning basins as outlined in the Oklahoma Comprehensive Water Plan (OCWP). In general, at least one (1) sample station was located at the terminal end of each of the planning basins. The OWRB also conducts on-going special studies as well as 25-30 probabilistic monitoring stations annually.
- **Fixed Station Load Monitoring** - The OWRB is currently working with several partners including the the USGS, US Army Corp of Engineers, Grand River Dam Authority, and National Weather Service to conduct flow monitoring on all of our fixed station sites that are not part of the Oklahoma/USGS Cooperative Gaging Network. This cooperative effort will allow for loadings to be calculated, trends to be assessed statewide, and provide much needed data for the Use Support Assessment process. Along with the USGS cost share program, Oklahoma's 319 program, Oklahoma's 314 program and the 303(d)-process will drive sample site locations associated with this task.

- **Fixed Station Lakes Monitoring** - As part of the Beneficial Use Monitoring Program, the Oklahoma Water Resources Board (OWRB) conducts sampling on lakes and reservoirs across the State of Oklahoma. To accomplish this task, the OWRB has taken a probabilistic survey approach for the lakes monitoring program. This survey design allows the state's objectives to be met as well as ensure various sized water bodies are represented adequately. The survey population includes all lakes above 50 surface acres, which encompasses approximately 206 different water bodies. The population is then stratified into two groups – lakes greater than 500 surface acres and those below 500 surface acres. The greater than 500 surface acres group includes 68 lakes, of which approximately one-fifth are monitored annually (quarterly samples) on a randomized draw. They are then monitored again during a subsequent year in the 5-year rotation, so that each lake greater than 50 surface acres is sampled 2 non-consecutive years during each 5 year rotation. The lakes managed by our Federal partners, the USACE and Bureau of Reclamation (BoR) are included in the 68 large lakes. Additionally, ten randomly drawn lakes of less than 500 surface acres are sampled annually (quarterly samples) over the 5 year sample frame. Many of these smaller lakes have not been sampled historically through the BUMP program and include small municipal water supplies.

The OWRB works with other agencies, such as the US Army Corps of Engineers (USACE), for inclusion of additional information on water bodies managed by the Corps. Data collected consists primarily of water chemistry, nutrients, and chlorophyll-a information. In general, a minimum of three to five stations per reservoir is sampled depending on the size of the reservoir. Stations are located such that they represent the lacustrine, transitional, and riverine zones of the lake. On many reservoirs, additional sites are monitored, including major arms of the reservoir as appropriate. Water quality parameters have been added to the lakes sampling effort over the years to enhance program ability to make use support determinations.

- **Groundwater Monitoring and Assessment Program (GMAP)** – This new program was made possible as result of a \$1,500,000 increase in funding received from the Oklahoma Legislature for water quality/quantity monitoring based on recommendations of the 2012 Update of the Oklahoma Comprehensive Water Plan. These additional monies were utilized to restore funding levels of the Beneficial Use Monitoring Program as well as to implement the new groundwater program. The new groundwater program prioritizes efforts on Oklahoma's 21 major groundwater aquifers and will continue to be phased in over the next 3 years. This baseline period will focus on 4-6 aquifers per year and will assess concentrations of nutrients, metals and major ion species. Water quality data will be collected from networks of wells on the basis of an aquifer's areal extent. This design feature generated sample populations of at least 30 wells for each of Oklahoma's 15 largest aquifers. Smaller aquifers are represented by fewer wells but proportionally have more sites per areal extent (Table 1).

Table 1. Sample Networks Based on Aquifer Areal Extent.

Areal Extent Category	Sample Site Well Density	Sample Sizes Generated
> 5000 km ²	1 well per 150 km ² (6 Aquifers)	37 – 89
3001 – 5000 km ²	1 well per 100 km ² (5 aquifers)	33 – 48
1501 – 3000 km ²	1 well per 75 km ² (6 aquifers)	25 – 33
751 – 1500 km ²	1 well per 50 km ² (2 aquifers)	16 – 19
≤ 750 km ²	2 aquifers	6 – 10

In the first year of sampling, 203 wells in 6 major aquifers were sampled for water quality and 299 wells for water level. When fully implemented, there will be 750 wells in the statewide groundwater quality network statewide. In addition, the OWRB's annual groundwater level measurement program will be doubled in capacity (from around 530 to 1100 wells) and will be spatially redistributed. Work began on expanding the groundwater level measurement program in January 2014 with the addition of 87 new wells to the program. For one-half of the water level network, manual measurements will become tri-annual events. In January 2014, 110 wells were added to the tri-annual measurement network. Additionally, over the 4-year baseline period, the OWRB plans to install 30-50 continuous water level recorders to obtain daily or hourly measurements that are more sensitive to detecting seasonal changes (brought on by drought or variable climate conditions) than can be obtained by annual measurements. Sixteen continuous water level recorders were installed in 8 aquifers across the state for this purpose in the first year of sampling.

- **Intensive Investigations** - If beneficial use impairment is identified or suspected, then all appropriate state agencies will be alerted and an investigation will be initiated to confirm if beneficial use impairment is occurring. If routine monitoring cannot definitively identify impairments, then an intensive study will be undertaken and if impairment is present, the source of the impairment will be identified, if possible. For example, monies could be spent to identify if high turbidity readings in rivers and streams are due to natural processes or do to human activities in the watershed of concern. Some potential causes of beneficial use impairment are; improper beneficial use or criteria (Oklahoma Water Resources Board jurisdiction), point source problems (Oklahoma Department of Environmental Quality or Oklahoma Department of Agriculture), non-point source problems (Oklahoma Conservation Commission, Oklahoma Department of Agriculture, Oklahoma Corporation Commission, or Oklahoma Department of Environmental Quality), oil and gas contamination (Oklahoma Corporation Commission), agricultural activities (Oklahoma Department of Agriculture), or mining activities (Oklahoma Department of Mines). All monitoring activities will be cooperative in nature with the agency with statutory authority assuming the lead role for intensive monitoring. If water bodies are not identified for intensive study as part of this task, then monies will be reallocated for routine monitoring of beneficial use attainment. Other entities (i.e. tribal or governmental units outside of Oklahoma) will be involved as appropriate. All intensive-monitoring activities will be consistent with the OWQS and the USAP. If no protocols exist, then best professional judgment or State/Environmental Protection Agency guidance is used as appropriate.

EXECUTIVE SUMMARY

It is the intent of this Oklahoma Water Resources Board (OWRB) report to advance concepts and principles of the Oklahoma Comprehensive Water Plan (OCWP). Consistent with a primary OCWP initiative, this and other OWRB technical studies provide invaluable data crucial to the ongoing management of Oklahoma's water supplies as well as the future use and protection of the state's water resources. Oklahoma's decision-makers rely upon this information to address specific water supply, quality, infrastructure, and related concerns. Maintained by the OWRB and updated every 10 years, the OCWP serves as Oklahoma's official long-term water planning strategy. Recognizing the essential connection between sound science and effective public policy, incorporated in the Water Plan are a broad range of water resource development and protection strategies substantiated by hard data – such as that contained in this report – and supported by Oklahoma citizens.

Beneficial Use Monitoring Program Goal

The goal of the Beneficial Use Monitoring Program is to document beneficial use impairments, identify impairment sources (if possible), detect water quality trends, provide needed information for the OWQS and facilitate the prioritization of pollution control activities.

The Beneficial Use Monitoring Program exists as a result of the vital economic and social importance of Oklahoma's lakes, streams, wetlands, and aquifers and the associated need for their protection and management. The data contained in this report is scientifically defensible and has been collected and analyzed following procedures outlined in Use Support Assessment Protocols (USAP), developed by Oklahoma's environmental agencies. Specifically, USAPs establish a consistent method to determine if beneficial uses assigned for individual waters through Oklahoma Water Quality Standards (OWQS) are being supported. (Legitimacy of data analyzed following protocols other than those outlined in the USAP must be defended.) If the BUMP report indicates that a designated beneficial use is impaired, threatened, or otherwise compromised, measures must be taken to mitigate or restore the water quality.

Traditionally, the State of Oklahoma has utilized numerous water monitoring programs conducted by individual state and federal agencies. In general, each environmental agency designs and implements its own program with only limited participation from with other state, municipal, or federal entities. These programs collect information for a specific purpose or project (e.g., development of Total Maximum Daily Loads, OWQS process, lake trophic status determination, water quality impact assessments from nonpoint and point source pollution, stream flow measurement, assessment of best management practices, etc.). Therefore, the information is specific to each project's data quality objectives (DQOs) and is often limited to a very small geographic area.

To synchronize Oklahoma's monitoring efforts related to water quality, the State Legislature appropriated funds in 1998 to create the Beneficial Use Monitoring Program under the direction of the Oklahoma Water Resources Board, who maintains Oklahoma's Water Quality Standards. The BUMP brings the OWRB's overall water quality management program full circle. From the promulgation of OWQS, to permitting and enforcement of permits stemming from OWQS-established criteria, to non-point source controls—all agency water quality management

activities are intended to work in concert to restore, protect, and maintain designated beneficial uses.

The specific objectives of the BUMP are to detect and quantify water quality trends, document and quantify impairments of assigned beneficial uses, and identify pollution problems before they become a pollution crisis. This report interprets current Oklahoma lake and stream data collected as part of the comprehensive, long-term program.

Beneficial Use Monitoring Program Components

- **Monitoring Rivers & Streams** - The OWRB is currently monitoring approximately eighty-four (84) stations six times annually. Fixed station monitoring is based largely upon the eighty-four (84) planning basins as outlined in the Oklahoma Comprehensive Water Plan (OCWP). In general, at least one (1) sample station was located at the terminal end of each of the planning basins. The OWRB also conducts on-going special studies as well as 25-30 probabilistic monitoring stations annually.
- **Fixed Station Load Monitoring** – The OWRB is currently working with several partners including the USGS, US Army Corp of Engineers, Grand River Dam Authority, and National Weather Service to conduct flow monitoring on all of our fixed station sites that are not part of the Oklahoma/USGS Cooperative Gaging Network. This cooperative effort will allow for loadings to be calculated, trends to be assessed statewide, and provide much needed data for the Use Support Assessment process.
- **Fixed Station Lakes Monitoring** - As part of the Beneficial Use Monitoring Program, the Oklahoma Water Resources Board (OWRB) conducts sampling on lakes and reservoirs across the State of Oklahoma. To accomplish this task, the OWRB has taken a probabilistic survey approach for the lakes monitoring program. This survey design allows the state's objectives to be met as well as ensure various sized waterbodies are represented adequately. The survey population includes all lakes above 50 surface acres, which encompasses approximately 206 different waterbodies. The population is then stratified into two groups – lakes greater than 500 surface acres and those below 500 surface acres. The greater than 500 surface acres group includes 68 lakes, of which approximately one-fifth are monitored annually (quarterly samples) on a randomized draw. They are then monitored again during a subsequent year in the 5-year rotation, so that each lake greater than 50 surface acres is sampled 2 non-consecutive years during each 5 year rotation. The lakes managed by our Federal partners, the USACE and Bureau of Reclamation (BoR) are included in the 68 large lakes. Additionally, ten randomly drawn lakes of less than 500 surface acres are sampled annually (quarterly samples) over the 5 year sample frame. Many of these smaller lakes have not been sampled historically through the BUMP program and include small municipal water supplies.

The OWRB works with other agencies, such as the US Army Corps of Engineers (USACE), for inclusion of additional information on waterbodies managed by the Corps. Data collected consists primarily of water chemistry, nutrients, and chlorophyll-a information. In general, a minimum of three to five stations per reservoir is sampled depending on the size of the reservoir. Stations are located such that they represent the lacustrine, transitional, and riverine zones of the lake. On many reservoirs, additional sites are monitored, including major arms of the reservoir as appropriate. Water quality parameters have been added to

the lakes sampling effort over the years to enhance program ability to make use support determinations.

Groundwater Monitoring and Assessment Program (GMAP) – This new program was made possible as result of the increase in funding received from the Oklahoma Legislature for water quality/quantity monitoring based on recommendations of the 2012 Update of the Oklahoma Comprehensive Water Plan. These additional monies were utilized to restore funding levels of the Beneficial Use Monitoring Program as well as to implement the new groundwater program. The new groundwater program prioritizes efforts on Oklahoma’s 21 major groundwater aquifers and will continue to be phased in over the next 3 years. This baseline period will focus on 4-6 aquifers per year and will assess concentrations of nutrients, metals and major ion species. Sample size was predicated upon and proportional to the surface area of the aquifer with a general goal of 30 wells per aquifer. Some of the state’s larger aquifers exceeded the goal and some of the smaller aquifers were represented by fewer wells Table 1. Sample Networks Based on Aquifer Areal Extent.

Areal Extent Category	Sample Site Well Density	Sample Sizes Generated
-----------------------	--------------------------	------------------------

When fully implemented, there will be 750 wells in the statewide groundwater quality network statewide. In addition, the OWRB’s annual groundwater level measurement program will be doubled in capacity from around 530 to 1100 wells and will be spatially redistributed. Also over the 5-year baseline period, the OWRB plans to install 30-50 continuous water level recorders to obtain daily or hourly measurements that are more sensitive to detecting seasonal changes (brought on by drought or variable climate conditions) than can be obtained by annual measurements.

> 5000 km ²	1 well per 150 km ² (6 aquifers)	37 – 89
3001 – 5000 km ²	1 well per 100 km ² (5 aquifers)	33 – 48
1501 – 3000 km ²	1 well per 75 km ² (6 aquifers)	25 – 33
751 – 1500 km ²	1 well per 50 km ² (2 aquifers)	16 – 19
≤ 750 km ²	2 aquifers	6 – 10

- Intensive Investigations** - If beneficial use impairment is identified or suspected, then all appropriate state agencies will be alerted and an investigation will be initiated to confirm if beneficial use impairment is occurring. If routine monitoring cannot definitively identify impairments, then an intensive study will be undertaken and if impairment is present, the source of the impairment will be identified if possible. One potential use for the intensive studies envisioned was identified during the data analysis phase of this reporting process. For example, monies could be spent to identify if high turbidity readings in rivers and streams are due to natural processes or do to human activities in the watershed of concern. Some potential causes of beneficial use impairment are; improper beneficial use or criteria (Oklahoma Water Resources Board jurisdiction), point source problems (Oklahoma Department of Environmental Quality or Oklahoma Department of Agriculture), non-point source problems (Oklahoma Conservation Commission, Oklahoma Department of Agriculture, Oklahoma Corporation Commission, or Oklahoma Department of Environmental Quality), oil and gas contamination (Oklahoma Corporation Commission), agricultural activities (Oklahoma Department of Agriculture), or mining activities (Oklahoma Department of Mines). All monitoring activities will be cooperative in nature with the agency with statutory authority assuming the lead role for intensive monitoring. If water bodies are not identified for intensive study as part of this task, then monies will be reallocated for routine monitoring of beneficial use attainment. Other entities (i.e. tribal or governmental units outside of Oklahoma) will be involved as appropriate. All intensive-monitoring activities will

be consistent with the OWQS and the USAP. If no protocols exist, then best professional judgment or State/Environmental Protection Agency guidance is used as appropriate.

Program History/Overview

Sampling of the numerous lakes, streams, and rivers across this state was initiated in the summer and fall of 1998. Lake sampling in connection with the Beneficial Use Monitoring Program began in July of 1998. Sampling on numerous streams and rivers began in earnest in November of the same year. The two sampling programs, one for lakes and one for streams had separate starting dates for a number of reasons. First, the OWRB has been conducting a lake-sampling program during the warmer summer months since 1990 as part of the Federal Clean Lakes Program. This historical lake sampling program was funded through federal dollars with the express purpose of determining lake trophic status. The trophic status of a reservoir can range from oligotrophic (low biological productivity) to hyper-eutrophic (excessive biological productivity). In general, the more productive a reservoir, the more water quality problems it is likely to experience. Federal dollars to fund this trophic state assessment of our state's lakes were discontinued in 1994. At that time, the OWRB searched for other funding sources, and through working with the Secretary of the Environment and the Oklahoma Conservation Commission, the Water Board was able to obtain a onetime federal 319 nonpoint source grant to continue the lake trophic state assessment program. The OWRB subsequently initiated a quarterly lake sampling program in the spring of 1998 and was able to roll the existing lake program into the BUMP.

For streams, no such comprehensive, statewide sampling effort was ongoing at the time the BUMP was funded. Because of this, the OWRB required a number of months to re-allocate staff and implement a monitoring regime on streams. In addition, OWRB staff greatly desired input from the other environmental agencies on the placement of stream monitoring stations. The existence of a previous statewide stream-monitoring network greatly aided in sample site selection. This historical ambient trend stream-monitoring network existed from 1975 until 1993 and was implemented by the Oklahoma State Health Department. Although this program did not evaluate sample results through comparison with the OWQS criteria or determine use support, it did provide a framework upon which to build. The historical sampling network sampled streams on a monthly basis from 1975-1986 and on a semi-annual basis from 1987-1993. Based upon the historical program and input from other agencies, the OWRB has established an ambient monitoring network of 100 active permanent stations with numerous rotational sites. Both the permanent and rotational networks are evaluated annually to determine if any stations should be dropped and others added. The Water Resources Board relies heavily on the other state and federal agencies for input into this process. In addition, monitoring personnel with the OWRB work closely with the other state environmental agencies to avoid duplication of sampling effort (i.e. the Oklahoma Conservation Commission rotating and data gaps sampling initiatives), except on a very limited basis for quality assurance purposes. A very small number of sites that are duplicative in nature do allow for the comparison of results between sampling programs to ensure that sampling protocols and the Use Support Assessment Protocols (USAP - described below) are working effectively and that decisions on support status are being made in a consistent manner.

The OWRB has developed Use Support Assessment Protocols (USAP) for lakes and streams, which are essential if the state is to be consistent in identifying waters that are not meeting their assigned beneficial uses or are threatened. The Water Resources Board has incorporated the USAP into Oklahoma Administrative Code (OAC) 785:46 to ensure that consistent determinations for impairments are made by all of the monitoring agencies.

The state must follow consistent procedures for listing waters as impaired. Using the OWRB Use Support Assessment Protocols, it was possible for OWRB staff to assess whether threats or impairments are present in our waterways. With continued funding, identification of impaired waters will be accomplished on additional waters.

Results of Sampling Efforts

It is essential that Oklahoma quantify impacts in a comprehensive and scientific manner and look for trends in water quality to identify waters that are not meeting their assigned beneficial uses. As a state, we must manage our water resources effectively and direct money to areas in most need of protection or remediation to ensure that we continue to have good quality and sufficient quantity of water to meet our needs well into the 21st century. Comprehensive statewide data sets on rivers, streams and lakes for accurately assessing beneficial use impairments have not existed since 1993. With the implementation of monitoring on a large scale in October of 1998, this is no longer the case. With the availability of data, it is the desire of the Oklahoma Water Resources Board to provide the legislature and professional water managers with a comprehensive and up-to-date document for their review and approval. Administrative and Technical staff at the OWRB look forward to conducting the Beneficial Use Monitoring Program far into the future and providing the state of Oklahoma with the information it needs to make informed decisions that allow us to effectively manage our precious water resources.

Every two years, the OWRB analyzes data collected by BUMP and that data are used to identify if the waters of the state are meeting their assigned beneficial uses. If the stream/river segment is not meeting its beneficial use it is submitted for inclusion on the EPA's 303d list. The latest EPA approved 303d list of impaired waters can be found on the Oklahoma Department of Environmental Quality's website. [Oklahoma's 303d list](#)

STREAM MONITORING PROGRAM

The Stream Beneficial Use Monitoring Program (BUMP) was initiated in November of 1998. BUMP streams staff began collecting monthly data in November of 1998 and throughout the years has changed from monthly sampling to bi-monthly sampling depending on program needs. Beginning in 2017, an eight-week sampling cycle was implemented. Each stream station is described individually with information outlining the site location and other pertinent information followed by a brief synopsis of data results. All of the sites are listed at this hyperlink, [current permanent monitoring sites](#).

River and Stream Monitoring HISTORIC Overview

Historically, the collection of data on rivers and streams across the state has been inconsistent. Over the years, various local, tribal, state, and federal agencies managed a number of sampling programs for different purposes. These programs have varied in nature ranging from site-specific, short-term monitoring to broad, statewide sampling, such as the one conducted by the former Oklahoma State Department of Health (OSDH). When OSDH stopped their monthly sampling program in 1989 it created a void in the dataset and the need for a new, comprehensive, statewide ambient trend monitoring program. In addition, Oklahoma lacked a program with the specific capability of documenting statewide beneficial use impairments on a long-term basis. The Beneficial Use Monitoring Program (BUMP) was created to fulfill these goals. By establishing a monitoring network that evaluates general water quality through the use of an existing framework like the Oklahoma Water Quality Standards (OWQS), the state of Oklahoma initiated a progressive phase in the long-term assessment of the overall health of our state's streams and rivers.

Materials & Methods

The Monitoring Network: The BUMP rivers and streams network consists of three major station classifications — permanent ambient trend, rotating, and statistical survey sites. Permanent ambient trend monitoring stations are relatively static within the program. In general, they do not change from year to year and were chosen to allow for long-term assessment of beneficial uses and water quality trends. Since program inception, a small number of sites have been dropped and new sites have been added to more effectively assess the water quality of our major stream basins. Statistical survey stations are selected at random every two years and visited once or twice during biological index periods. Rotating stations are selected for specific purposes and typically have a finite lifespan.

With the creation of the permanent monitoring network, OWRB staff established three overarching objectives for the program.

First, the network must encompass the entire state. To accomplish this, a commitment was made to locate at least one site in each of the 8-digit USGS hydrologic units (HUC; Table 1) ([Map](#)).

Table 1. Eight Digit United States Geological Survey HUC Watersheds.

8 Digit HUC Number	Description	8 Digit HUC Number	Description
11040001	Cimarron Headwaters	11100301	Middle North Canadian
11040002	Upper Cimarron	11100302	Lower North Canadian
11040006	Upper Cimarron – Liberal	11100303	Deep Fork
11040007	Crooked	11110101	Polecat – Snake
11040008	Upper Cimarron – Bluff	11110102	Dirty – Greenleaf
11050001	Lower Cimarron – Eagle Chief	11110103	Illinois
11050002	Lower Cimarron – Skeleton	11110104	Robert S. Kerr Reservoir
11050003	Lower Cimarron	11110105	Poteau
11060001	Kaw Lake	11120105	Lower Prairie Dog Town Fk., Red
11060002	Upper Salt Fork – Arkansas	11120202	Lower Salt Fork – Red
11060003	Medicine Lodge	11120302	Middle North Fork – Red
11060004	Lower Salt Fork – Arkansas	11120303	Lower North Fork – Red
11060005	Chickaskia	11120304	Elm Fork – Red
11060006	Black Bear – Red Rock	11130101	Groesbeck – Sandy
11070103	Middle Verdigris	11130102	Blue – China
11070105	Lower Verdigris	11130201	Farmers – Mud
11070106	Caney	11130202	Cache
11070107	Bird	11130203	West Cache
11070205	Middle Neosho	11130208	Northern Beaver
11070206	Grand Lake	11130210	Lake Texoma
11070207	Spring	11130301	Washita Headwaters
11070208	Elk	11130302	Upper Washita
11070209	Lower Neosho	11130303	Middle Washita
11090103	Rita Blanca	11130304	Lower Washita
11090201	Lower Canadian – Deer	11140101	Bois D’Arc – Island
11090202	Lower Canadian – Walnut	11140102	Blue
11090203	Little	11140103	Muddy Boggy
11090204	Lower Canadian	11140104	Clear Boggy
11100101	Upper Beaver	11140105	Kiamichi
11100102	Middle Beaver	11140106	Pecan – Waterhole
11100103	Coldwater	11140107	Upper Little
11100104	Palo Duro	11140108	Mountain Fork
11100201	Lower Beaver	11140109	Lower Little
11100203	Lower Wolf		

Second, the foundation of the monitoring network should focus on the state's largest rivers, the Arkansas River and the Red River, and their major tributaries, such as the Canadian River and the Washita River. Consideration was given to the major tributaries of rivers such as the Canadian River and the Little River. Further consideration was also given to areas of the state (e.g., the Panhandle) that were underrepresented as well as rivers and streams (e.g., the Deep Fork River) that were conspicuously missing from the network.

Third, the advice and input of other state environmental agencies and professionals was sought before making a final determination of permanent monitoring station locations. In particular, the Oklahoma Department of Environmental Quality (ODEQ) and the Oklahoma Conservation Commission (OCC) have been, and continue to be very helpful in assisting with locating permanent stations.

Operating within these overarching objectives, the staff of the OWRB selected and performed monitoring on 130 permanent ambient trend monitoring sites since September of 1998. Beginning in January 2013, the OWRB adjusted the monitoring network to more closely align with the needs of the Oklahoma Comprehensive Water Plan. The goal was to put a permanent station at the outflow of all 82 water planning basins ([Map](#)), while maintaining a small network of reference condition sites. Along with the redesigned network, the frequency of sampling was increased from 6 samples per year to 8 samples per year.

The placement of a site location necessitates several considerations. First, a site must be accessible by vehicle and be safe for sampling personnel and other motorists. Second, the site must be located in an area where representative data can be acquired. The OWQS Use Support Assessment Protocols (USAP) sets spatial limitations on the data that is collected. Essentially, a site can only represent twenty-five stream miles for non-wadeable streams and ten stream miles for wadeable streams (with some exceptions). Furthermore, a site can only be representative of the water body identification number (12-digit HUC number) in which it is located and the site cannot be located within a regulatory mixing zone. This requires monitoring sites be selected in a way which represents as long a stream reach as possible while still maintaining the spatial integrity outlined in USAP. Thirdly, it is important that historical data be considered. Many of the BUMP permanent monitoring sites were selected from a set of historical stations which were previously used in the OSDH statewide monitoring program (when OSDH dissolved it became part of the ODEQ Ambient Trend Monitoring Program). Before initial sampling began in 1998, OWRB staff worked closely with the ODEQ to integrate many of the historical sites into BUMP. Although the historical data from these sites cannot be used to assess beneficial uses (USAP sets a temporal limitation of five years), the historical data set benefits the state in assessing long-term water quality trends. Lastly, it is imperative that rivers and streams which have been designated in the OWQS as Outstanding Resource Waters (ORW), High Quality Waters (HQW), or Sensitive Water Supplies (SWS) be given unique consideration even if they do not meet the objectives as outlined. The water quality status of each site is discussed in more detail in the individual [site pages](#).

The goal of the rotating portion of the program is to provide short-term assessments on priority waters as identified by a state agency or other party. Two general objectives were identified to aid in the determination of what would qualify as a rotating site. First, it should be determined that data collection at a particular site should be short-term in nature and not extend past one sampling year, although some stations do remain in the network for up to two years. Data collected within that year should allow water quality managers to make the appropriate decisions regarding the segment being monitored. For instance, if a stream reach is listed as impaired on the 303(d) list due to pH, measuring pH throughout one year should allow the requesting agency or entity to either de-list the segment or determine what other monitoring efforts are necessary. Secondly, the monitoring should fall within the framework of the USAP. Since the inception of the program, the staff of OWRB has met individually with representatives of other state agencies to identify their priority short-term monitoring needs. Once the OWRB receives a list of waters for monitoring from the interested agencies, staff evaluates the nominations and notifies the nominating agency of which waters would be monitored (to date, all of the waters requested for monitoring have been accommodated). In all, over 220 monitoring stations have been or are currently being monitored. In most instances, the segments were listed for one or more variables on the state's 303(d) list. For a comprehensive list of historic and/or current rotational monitoring stations, please contact the Oklahoma Water Resources Board/Water Quality Programs Division at (405) 530-8800.

Statistical survey monitoring is a unique study design for which monitoring stations across the state are selected at random. The OWRB has been actively involved in this type of monitoring since 2004. The latest probabilistic data report is titled "Statewide Stream/River Probabilistic Monitoring Network for the State of Oklahoma from 2008-2011" and can be found under "Water Quality Monitoring" on the reports page of the OWRB website at www.owrb.ok.gov/reports.

Stream Monitoring Variables: The variables being monitored were chosen to reflect both objectives of the programs — assessment of beneficial uses within the framework of USAP as well as the assessment of general water quality. Even though a variable may not be listed in the OWQS with a specific criterion (e.g., hardness), the variable is an important constituent in analyzing and understanding the general water quality of a particular segment. See Table 2 for a list of monitoring variables.

Data for general water quality, nutrient, metals, organics, chlorophyll-a, and bacteriological variables are collected in one of two ways. Some variables are monitored in-situ utilizing a YSI or EXO multi-probe instrument. The data are uploaded from the instrument to a data logger, transferred manually to a field log sheet, and downloaded to the OWRB monitoring database. These variables include dissolved oxygen (D.O.), %D.O. saturation, water temperature, pH, salinity, total dissolved solids, and specific conductance. Data for all other variables are gathered from water quality samples collected at the station. When the flow of a channel is approximately 1.5 ft/s or greater, samples are collected using a depth-integrated method. Samples at non-wadeable sites are collected by lowering a depth-integrated sampler (DH-95 with polyethylene collection bottle) from a bridge, through the water column at equal width increments across the channel. Samples at wadeable sites are collected with a DH-81 wadeable depth-integrated sampler (polyethylene collection bottle) through the water column at equal width increments. When the flow of the channel is less than 1.5 ft/s, a grab composite sample is collected. Non-wadeable sites are collected by lowering a weighted bottle sampler with a 1-L bottle under the surface of the channel. Wadeable sites are collected using a whirl-pak inside of a 1-L collection bottle and submerging the bottle under the water. Equal width increments are used in both wadeable and non-wadeable sites to get an accurate representation of the channel. Grab samples are conducted if the channel is a series of

disconnected pools. If sampling occurs from a bridge, the sampling typically is done on the down-stream side of the bridge. The sampling methods used are described in detail in the [Collecting Water Quality Samples](#) SOP. From this water sample, water quality variables are monitored in several ways. For laboratory analysis of general water quality variables and nutrients, water is aliquoted, as outlined in the SOP, into two, 1L bottles (one for sulfuric acid/ice preservation and one for ice preservation). If a metals analysis is necessary, water is collected at the thalweg of the channel into a 250mL bottle and preserved with nitric acid for a total recoverable metals panel, or filtered and preserved with nitric acid for a dissolved metals panel, as per standard operating procedures guidelines. Sample water for the determination of nephelometric turbidity, total hardness, and total alkalinity is also aliquoted from the remainder of the general chemistry sample water. Nephelometric turbidity is determined through use of a HACH portable turbidimeter. Total hardness and alkalinity are determined using HACH test kits. All instruments and test kits are calibrated and used according to manufacturer's instructions. Sestonic chlorophyll-a samples are also collected from the composited water sample and are filtered through a glass fiber filter, treated with a buffering agent and frozen until delivered to the State Environmental Laboratory. Organics have an increased affinity for polypropylene, and allowing sample water to contact polypropylene bottles or other collection equipment may cause concentrations to be significantly underestimated. Therefore, when organics analyses are required, water is collected using a 1-Liter Teflon bottle and composited into a 2-gallon glass bottle. The laboratory sample is aliquoted by inverting the glass bottle 10 times and dispensing to one-quart or one-pint clear or amber glass jars depending on the type of organic analysis. The samples are placed on ice for preservation. Bacteriological samples are collected using a composite grab sample method and are aliquoted to two 100mL bacteria bottles for laboratory analysis.

Biological data are collected using a variety of methods. Typically, fish are collected using electrofishing methods. Alternatively, a seine net is used to collect fish when conductivity is not conducive to electrofishing. Benthic macroinvertebrates are collected by targeting the richest habitats in the water body, which includes riffles, streamside vegetation, and woody debris. Collections are then shipped to an outside lab where a subsample is taken for taxonomic analysis. Various habitat measures are also included during each biological sampling event. During fish collections, staff conduct habitat assessments derived from standard EPA methods and collect both quantitative and qualitative measurements on in-stream and riparian characteristics. During macroinvertebrate collections, habitat assessment is focused on determining target habitat type and substrate composition. Benthic chlorophyll-a samples are gathered from the characteristic substrates of the stream.

Table 2. Variables Monitored by the BUMP Stream Sampling Program.

SAMPLE VARIABLES		
General Water Quality Variables – Sampled 6 times annually		
Dissolved Oxygen (D. O.)	pH	Specific Conductance
Temperature	Total Dissolved Solids	% D. O. Saturation
Salinity	Total Alkalinity	Total Hardness
Chloride	Nephelometric Turbidity	Sulfate
Nutrients – Sampled 6 times annually		
*Kjeldahl Nitrogen	Ammonia Nitrogen	Total Phosphorus

SAMPLE VARIABLES		
*Nitrate Nitrogen	*Nitrite Nitrogen	
Metals – Sampled as needed		
Arsenic	Cadmium	Chromium
Copper	Lead	Mercury
Nickel	Selenium	Silver
Zinc	Thallium	
Organics – Site specific sampling as needed		
Analysis of Pesticides, Herbicides, Fungicides, and other organics		
Bacteriological Communities – Sampled 5-10 times annually (during recreational season)		
Enterococci	<i>Escherichia coli</i>	
Biological Communities – Sampled as described below		
Sestonic Chlorophyll-a (8 times annually)	Benthic Chlorophyll-a (as needed during summer)	Fish (once every 4-5 years)
Benthic Macroinvertebrates (1 collection in the summer annually)	Habitat (sampled with fish and macroinvertebrate sampling)	

*Total nitrogen is calculated by OWRB staff, based upon concentrations for these compounds

For a more detailed discussion of water quality sampling procedures, please contact the OWRB for copy of the BUMP Standard Operating Procedures (SOP). The SOP document can be obtained by contacting the Oklahoma Water Resources Board/Water Quality Programs Division at (405) 530-8800 or by accessing and downloading the document via the web at the following link. [Streams SOP's](#)

Quality Assurance/Quality Control (QA/QC): QA/QC will not be discussed in detail in this report. However, for a comprehensive description of field QA/QC methods, please contact the Oklahoma Water Resources Board/Water Quality Programs Division at (405) 530-8800. For laboratory QA/QC methods please contact the Oklahoma Department of Environmental Quality/Customer Services Division at (405) 702-6100. Comprehensive QA/QC has been performed on all data collected and utilized for this report.

It is also imperative that the state continues to refine the minerals criteria found in OAC 45: Appendix F. The process was begun in earnest in 2005 with a major revision to Appendix F criteria, and the assessments in this report reflect these new criteria. However, some management segment values are still extrapolated from minimum data and from stations not necessarily representative of the entire management segment. By using the OWRB's methodology for the development of site-specific minerals criteria, BUMP data as well as other water quality monitoring program data may be used to refine inconsistent criteria.

RESULTS AND DISCUSSION

It is essential that Oklahoma quantify impacts in a comprehensive and scientific manner and look for trends in water quality to identify waters that are not meeting their assigned beneficial

uses. As a state, we must manage our water resources effectively and direct money to areas in most need of protection or remediation to ensure that we continue to have good quality and sufficient quantity of water to meet our needs well into the 21st century. It is the desire of the Oklahoma Water Resources Board to provide the legislature, the general public and professional water managers with a comprehensive and up-to-date document for their review and approval. Administrative and Technical staff at the OWRB look forward to conducting the Beneficial Use Monitoring Program far into the future and providing the state of Oklahoma with the information it needs to make informed decisions related to the effective management of its precious water resources.

Every two years, the OWRB analyzes data collected by BUMP and uses that data to determine if the waters of the state are meeting their assigned beneficial uses. If the stream/river segment is not meeting its beneficial use it is submitted for inclusion on the EPA's 303(d) list. The latest EPA approved 303(d) list of impaired waters can be found on the Oklahoma Department of Environmental Quality's website. [Oklahoma's 303d list](#)

Arkansas River at Bixby



Sample Record	Times Visited	Station ID
November 1998 - 2012	133	120420010010-001AT

Stream Data	County	Tulsa	Request Data By Email
	Location	North of the Town of Bixby on State Highway 64	
	Latitude/Longitude	35.95585307, -95.88622562	
	Planning Watershed	Middle Arkansas (8-digit HUC - 11110101)	

	Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
In-Situ	Water Temperature (°C)	115	17.0	18.3	1.9/34.1	9.0/24.3	
	Turbidity (NTU)	118	45	20	4/638	12/43	19% of values > OWQS
	pH (units)	114	8.02	8.01	7.19/9.15	7.75/8.27	
	Dissolved Oxygen (mg/L)	115	9.84	9.35	3.90/23.03	7.32/11.42	
	Hardness (mg/L)	116	238	237	85/442	195/280	
Minerals	Total Dissolved Solids (mg/L)	54	761	735	296/1372	527/962	
	Specific Conductivity (uS/cm)	115	1499	1442	92/3275	1017/1878	
	Chloride (mg/L)	117	322	272	66/863	220/391	
	Sulfate (mg/L)	117	125	114	29/1580	87/132	
Nutrients	Total Phosphorus (mg/L)	118	0.220	0.198	0.089/0.835	0.160/0.238	
	Total Nitrogen (mg/L)	116	1.46	1.40	0.25/3.56	1.15/1.69	
	Nitrate/Nitrite (mg/L)	118	0.71	0.68	<0.05/2.35	0.43/0.96	
	Chlorophyll A (mg/m ³)	33	17.2	8.7	0.9/167.0	5.5/14.8	TSI=58.5
Bacteria	Enterococcus (cfu/100ml)(* - Geo. Mn.)	28	358	109	<10/4000	39/304	
	E. Coli (cfu/100ml)(* - Geo. Mn.)	28	127	46	<10/836	18/152	

	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
Click to learn more about Beneficial Uses												
Fish & Wildlife Propagation	NS	S	S	S						U	S	S
Aesthetics												S
Agriculture					S		S	S				
Secondary Body Contact Recreation									S			
Public & Private Water Supply				S		S			S			
Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

Arkansas River at Haskell



Sample Record	Times Visited	Station ID
November 1998 - Current	173	120410010080-001AT

Stream Data	County	Muskogee	Request Data By Email
	Location	East of the Town of Haskell on State Highway 104	
	Latitude/Longitude	35.82095549, -95.63995264	
	Planning Watershed	Middle Arkansas (8-digit HUC - 11110101)	

Parameters		Parameter <i>(Descriptions)</i>	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ		Water Temperature (°C)	158	17.6	18.0	1.9/32.6
	Turbidity (NTU)		159	43	20	2/944	11/46	
	pH (units)		158	8.14	8.13	7.15/9.16	7.91/8.37	
	Dissolved Oxygen (mg/L)		157	9.93	9.78	4.51/16.94	8.52/11.13	
	Hardness (mg/L)		158	241	238	136/490	204/281	
Minerals		Total Dissolved Solids (mg/L)	108	805	778	209/1460	627/965	
		Specific Conductivity (uS/cm)	156	1527	1413	411/3436	1168/1815	
		Chloride (mg/L)	170	331	278	26/815	224/426	
		Sulfate (mg/L)	170	106	104	27/205	81/121	
Nutrients		Total Phosphorus (mg/L)	175	0.213	0.194	0.073/0.810	0.160/0.238	
		Total Nitrogen (mg/L)	170	1.35	1.29	0.40/3.18	1.05/1.59	
		Nitrate/Nitrite (mg/L)	171	0.54	0.55	<0.05/1.60	0.21/0.78	
		Chlorophyll A (mg/m ³)	83	21.9	13.8	1.2/140.0	5.0/34.8	TSI=60.9
Bacteria		Enterococcus (cfu/100ml)(* -Geo. Mn.)	40	208	57	<10/2420	<10/140	
		E. Coli (cfu/100ml)(* -Geo. Mn.)	40	128	10	<10/1515	<10/104	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		S	S	S	S						U	S
Aesthetics													NEI
Agriculture						S		S	S				
Primary Body Contact Recreation										S			
Public & Private Water Supply					S		S			S			
Fish Consumption					S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

Arkansas River at Moffett



Sample Record	Times Visited	Station ID
November 1998 - Current	92	220200010010-001AT

Stream Data	County	Sequoyah	Request Data By Email
	Location	East of the Town of Moffett on State Highway 64	
	Latitude/Longitude	35.39242903, -94.43267795	
	Planning Watershed	Lower Arkansas (8-digit HUC - 11110104)	

	Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
In-Situ	Water Temperature (°C)	89	19.5	21.1	1.7/32.6	12.7/27.1	
	Turbidity (NTU)	92	34	22	7/194	15/44	
	pH (units)	89	7.83	7.82	6.87/8.97	7.60/8.06	
	Dissolved Oxygen (mg/L)	89	9.50	8.85	5.35/16.48	7.64/10.62	
	Hardness (mg/L)	89	157	139	39/658	125/178	
Minerals	Total Dissolved Solids (mg/L)	47	315	310	146/536	248/388	
	Specific Conductivity (uS/cm)	87	610	576	195/1333	484/732	
	Chloride (mg/L)	91	101	93	13/293	58/129	
	Sulfate (mg/L)	91	53	51	22/116	36/61	
Nutrients	Total Phosphorus (mg/L)	91	0.121	0.113	0.051/0.330	0.090/0.139	
	Total Nitrogen (mg/L)	90	0.97	0.92	0.45/2.82	0.72/1.12	
	Nitrate/Nitrite (mg/L)	91	0.30	0.24	<0.05/1.17	0.09/0.46	
	Chlorophyll A (mg/m ³)	50	15.3	12.7	<0.1/71.8	7.0/16.2	TSI=57.4
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	24	955	10	<10/12000	<10/20	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	24	140	10	<10/2035	<10/18	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		S	S	S	S						U	S
Aesthetics													S
Agriculture						S		S	S				
Primary Body Contact Recreation										S			
Public & Private Water Supply					S		S			S			
Fish Consumption					S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

Arkansas River at Muskogee



Sample Record	Times Visited	Station ID
November 1998 - Current	139	121400010260-001AT

Stream Data	County	Muskogee	Request Data By Email
	Location	East of the Town of Muskogee on State Highway 62	
	Latitude/Longitude	35.77016066, -95.30031102	
	Planning Watershed	Middle Arkansas (8-digit HUC - 11110102)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	138	18.1	18.6	1.9/32.4	11.0/25.6
Turbidity (NTU)	139		43	23	5/387	15/39		
pH (units)	136		8.03	8.02	7.09/9.48	7.73/8.32		
Dissolved Oxygen (mg/L)	138		8.96	8.85	4.20/14.88	7.08/10.61		
Hardness (mg/L)	136		183	170	91/418	142/217		
Minerals	Total Dissolved Solids (mg/L)	78	445	398	144/1040	305/559		
	Specific Conductivity (uS/cm)	137	908	791	191/2746	458/1201		
	Chloride (mg/L)	125	165	133	<10/713	76/206		
	Sulfate (mg/L)	126	72	64	28/202	44/89		
Nutrients	Total Phosphorus (mg/L)	139	0.163	0.145	0.053/0.705	0.115/0.174		
	Total Nitrogen (mg/L)	138	1.18	1.10	0.40/3.90	0.92/1.39		
	Nitrate/Nitrite (mg/L)	139	0.43	0.39	<0.05/1.21	0.17/0.63		
	Chlorophyll A (mg/m ³)	65	19.2	14.5	<0.1/90.0	8.6/26.7	TSI=59.6	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	31	3685	20	<10/75000	<10/200		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	31	378	20	<10/5492	<10/52		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Arkansas River at Ralston



Sample Record		Times Visited	Station ID
December 1998 - Current		175	621200010200-001AT
Stream Data	County	Pawnee	Request Data By Email
	Location	East of the Town of Ralston on State Highway 18	
	Latitude/Longitude	36.50481274, -96.72547095	
	Planning Watershed	Upper Arkansas (8-digit HUC - 11060006)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	166	18.0	19.0	-0.4/38.0	10.2/25.7
Turbidity (NTU)	167		113	33	2/1119	13/98		
pH (units)	166		8.21	8.23	6.96/9.00	8.01/8.41		
Dissolved Oxygen (mg/L)	166		10.04	9.71	1.73/26.76	8.12/11.66		
Hardness (mg/L)	166		260	250	82/635	197/320		
Minerals	Total Dissolved Solids (mg/L)	106	723	668	203/1510	525/862		
	Specific Conductivity (uS/cm)	166	1213	1105	186/4882	755/1546		
	Chloride (mg/L)	174	259	221	18/1380	153/298		
	Sulfate (mg/L)	174	109	102	36/268	85/134		
Nutrients	Total Phosphorus (mg/L)	174	0.227	0.177	<0.005/1.390	0.126/0.257		
	Total Nitrogen (mg/L)	174	1.35	1.27	<0.10/5.78	0.92/1.60		
	Nitrate/Nitrite (mg/L)	174	0.48	0.44	<0.03/1.72	<0.05/0.71		
	Chlorophyll A (mg/m ³)	77	24.9	19.0	2.0/113.0	10.1/35.2	TSI=62.1	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	37	2337	100	<10/65000	20/1035	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	37	603	20	<10/9804	<10/290		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						U	S	S
	Aesthetics												NEI
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

Arkansas River at Sand Springs



Sample Record	Times Visited	Station ID
September 1999 - 2012	118	120420010130-001AT

Stream Data	County	Tulsa	Request Data By Email
	Location	South of the Town of Sand Springs on State Highway 97	
	Latitude/Longitude	36.12393866, -96.11578343	
	Planning Watershed	Middle Arkansas (8-digit HUC - 11110101)	

	Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
In-Situ	Water Temperature (°C)	102	17.3	19.1	0.5/33.0	9.3/24.6	
	Turbidity (NTU)	104	34	15	3/735	8/32	19% of values > OWQS
	pH (units)	102	7.87	7.87	7.16/8.63	7.69/8.02	
	Dissolved Oxygen (mg/L)	102	8.92	9.00	2.84/15.85	6.98/10.51	
	Hardness (mg/L)	104	243	238	59/412	196/288	
Minerals	Total Dissolved Solids (mg/L)	44	846	807	347/1650	601/1059	
	Specific Conductivity (uS/cm)	102	1646	1564	179/4080	1128/1995	
	Chloride (mg/L)	104	367	309	91/1100	238/468	
	Sulfate (mg/L)	105	115	112	29/228	85/137	
Nutrients	Total Phosphorus (mg/L)	105	0.138	0.140	0.016/0.281	0.109/0.164	
	Total Nitrogen (mg/L)	104	1.15	1.18	0.48/2.20	0.78/1.45	
	Nitrate/Nitrite (mg/L)	106	0.54	0.55	<0.05/1.36	0.24/0.78	
	Chlorophyll A (mg/m ³)	32	6.1	5.4	0.7/18.7	3.1/7.9	TSI=48.3
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	25	67	20	<10/400	<10/87	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	25	28	20	<10/119	<10/36	

	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
Fish & Wildlife Propagation		NS	S	S	S						U	S	S
Aesthetics													S
Agriculture						S		S	S				
Secondary Body Contact Recreation										S			
Public & Private Water Supply					S		S			S			
Fish Consumption					S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

Barren Fork at Eldon



Sample Record	Times Visited	Station ID
November 1998 - Current	201	121700050010-001AT

Stream Data	County	Cherokee	Request Data By Email
	Location	South of the Town of Eldon on State Highway 51	
	Latitude/Longitude	35.92173377, -94.83726494	
	Planning Watershed	Lower Arkansas (8-digit HUC - 11110103)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments	
		In-Situ	Water Temperature (°C)	149	17.2	17.9	3.1/29.9	11.2/22.6	
			Turbidity (NTU)	147	4	2	1/45	2/3	
			pH (units)	148	7.63	7.60	6.37/8.82	7.36/7.88	
			Dissolved Oxygen (mg/L)	149	9.63	9.79	4.40/14.53	7.98/11.10	
			Hardness (mg/L)	150	100	98	46/159	90/108	
		Minerals	Total Dissolved Solids (mg/L)	33	136	121	92/545	109/134	
			Specific Conductivity (uS/cm)	149	203	201	20/713	180/220	
			Chloride (mg/L)	111	8	10	<10/44	<5/10	
			Sulfate (mg/L)	111	9	10	<10/40	6/10	
		Nutrients	Total Phosphorus (mg/L)	155	0.032	0.028	<0.005/0.217	0.021/0.034	
			Total Nitrogen (mg/L)	155	1.48	1.33	<0.10/4.20	0.83/1.96	
			Nitrate/Nitrite (mg/L)	155	1.32	1.24	0.14/3.83	0.72/1.71	
			Chlorophyll A (mg/m ³)	95	1.4	1.1	<0.1/11.7	0.7/1.7	TSI=34.00
		Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	83	228	20	<10/3900	10/80	
			E. Coli (cfu/100ml)(* -Geo. Mn.)	83	99	<10	<10/2420	10/41	Mean>OWQS

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	Total Phosphorus
	Fish & Wildlife Propagation	S	S	S	S						S	S	S	
	Aesthetics												S	S
	Agriculture					S		S	S					
	Primary Body Contact Recreation									NS				
	Public & Private Water Supply				S		S			S				
	Fish Consumption				S									
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes												

Beaver River at Beaver



Sample Record	Times Visited	Station ID
November 1998 - Current	140	720500020290-001AT

Stream Data	County	Beaver	Request Data By Email
	Location	North of the Town of Beaver on State Highway 23	
	Latitude/Longitude	36.82280124, -100.5193698	
	Planning Watershed	Panhandle (8-digit HUC - 11100102)	

Parameters		Parameter <i>(Descriptions)</i>	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	112	16.1	15.2	1.0/32.0	10.2/23.2
Turbidity (NTU)	115		19	8	1/808	4/17		
pH (units)	111		7.66	7.61	6.93/9.10	7.32/7.97		
Dissolved Oxygen (mg/L)	113		8.81	8.74	0.16/20.28	6.31/10.88		
Hardness (mg/L)	113		1827	1505	201/4310	1122/2500		
Minerals	Total Dissolved Solids (mg/L)	71	6925	6820	1360/11600	4779/9280	100% of values > OWQS	
	Specific Conductivity (uS/cm)	114	9669	8402	451/17999	7147/12703		
	Chloride (mg/L)	115	2804	2500	177/6510	1934/3390	100% of values > OWQS	
	Sulfate (mg/L)	115	1042	902	103/2620	639/1440	59% of values > OWQS	
Nutrients	Total Phosphorus (mg/L)	115	0.085	0.039	0.008/2.119	0.023/0.070		
	Total Nitrogen (mg/L)	116	1.11	0.96	<0.10/12.11	0.59/1.21		
	Nitrate/Nitrite (mg/L)	115	0.09	<0.05	<0.05/3.96	<0.05/<0.05		
	Chlorophyll A (mg/m ³)	21	42.8	18.5	3.2/143.0	9.8/100.1	TSI=67.4	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	23	1320	199	20/9208	100/1100	Mean > OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	23	1285	221	<10/5794	63/2987	Mean > OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	NS	NS						NS	NS	NS
	Aesthetics												S
	Agriculture					NS		NS	NS				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes Fish & Wildlife Propagation not supporting for Selenium
 U = Assessment yielded undetermined supporting status

Beaver Creek at Ryan



Sample Record	Times Visited	Station ID
January 2013 - Current	49	31120000030-001AT

Stream Data	County	Jefferson	Request Data By Email
	Location	West of the Town of Ryan off State Highway 81	
	Latitude/Longitude	34.020316 , -97.971356	
	Planning Watershed	Northern Beaver (8-digit HUC - 11130208)	

		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		Parameters	In-Situ	Water Temperature (°C)	49	18.5	18.4	0.5/30.6
Turbidity (NTU)	49			87	50	8/473	27/94	
pH (units)	49			8.22	8.15	7.42/9.17	7.86/8.56	
Dissolved Oxygen (mg/L)	49			8.82	7.37	2.89/25.19	5.47/11.06	
Hardness (mg/L)	49			276	254	94/500	180/360	
Minerals	Total Dissolved Solids (mg/L)	47	563	442	125/1590	268/730		
	Specific Conductivity (uS/cm)	49	1083	877	214/3476	466/1384		
	Chloride (mg/L)	47	152	90	12/666	29/175		
	Sulfate (mg/L)	47	114	93	41/296	74/154		
Nutrients	Total Phosphorus (mg/L)	47	0.490	0.447	0.069/1.410	0.304/0.545		
	Total Nitrogen (mg/L)	47	3.15	2.35	0.87/14.26	1.35/3.66		
	Nitrate/Nitrite (mg/L)	47	1.41	0.33	<0.05/11.80	0.07/1.47		
	Chlorophyll A (mg/m ³)	47	87.0	47.6	<0.1/455.0	13.0/152.0	TSI=74.4	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	12	438	394	108/980	261/488		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	12	181	144	<10/517	23/249		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	NS	S						NEI	U	NEI
	Aesthetics												NEI
	Agriculture					S		S	NS				
	Primary Body Contact Recreation									NEI			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								
	<p><i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i></p>												

Notes U = Assessment yielded undetermined supporting status

Beaver River at Gate



Sample Record	Times Visited	Station ID
October 2000 – September 2007	45	720500020140-001AT

Stream Data	County	Beaver	Request Data By Email
	Location	South of the Town of Gate on County Road N 1650	
	Latitude/Longitude	36.78998597, -100.0574831	
	Planning Watershed	Panhandle (8-digit HUC -11100201)	

Parameters		Parameter <i>(Descriptions)</i>	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	37	20.0	13.0	5.5/30.9	19.1/26.3
	Turbidity (NTU)	37	11	4	8/260	35/50		
	pH (units)	35	8.03	7.83	6.43/8.60	7.63/7.91		
	Dissolved Oxygen (mg/L)	37	9.99	7.91	4.13/15.07	8.56/10.50		
	Hardness (mg/L)	37	650	508	12/235	31/44		
Minerals	Total Dissolved Solids (mg/L)	3	2140	1830	45/93	66/77		
	Specific Conductivity (uS/cm)	37	3679	2525	<10/299	74/94		
	Chloride (mg/L)	37	964	631	<10/69	<10/<10	50% of values > OWQS	
	Sulfate (mg/L)	37	365	268	<10/56	17/22		
Nutrients	Total Phosphorus (mg/L)	37	0.050	0.019	0.022/0.259	0.061/0.081		
	Total Nitrogen (mg/L)	37	0.73	0.44	0.13/1.47	0.57/0.74		
	Nitrate/Nitrite (mg/L)	37	0.06	<0.05	<0.05/1.02	<0.05/0.15		
	Chlorophyll A (mg/m ³)	0	0.0	0.0	1.0/34.3	7.2/12.7	No Data	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	12	622	43	<10/6700	<10/65	Mean > OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	12	138	<10	<10/528	31/71		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						NS	NS	NS
	Aesthetics												NEI
	Agriculture					S		NS	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes Fish Consumption not supporting for Lead

Beaver River at Guymon



Sample Record	Times Visited	Station ID
April 1999 - 2012	123	720510000190-001AT

Stream Data	County	Texas	Request Data By Email
	Location	West of the Town of Guymon off State Highway 64	
	Latitude/Longitude	36.70576142, -101.6365036	
	Planning Watershed	Panhandle (8-digit HUC - 11100101)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	111	15.4	8.0	-1.1/37.3	17.4/26.0
Turbidity (NTU)	115		20	8	6/>1000	33/79		
pH (units)	109		8.00	7.76	7.06/9.72	8.14/8.33		
Dissolved Oxygen (mg/L)	113		8.11	5.99	4.55/18.09	9.79/11.62	22% of values<OWQS and 7% of values<alt OWQS	
Hardness (mg/L)	113		265	205	196/1890	610/774		
Minerals	Total Dissolved Solids (mg/L)	37	298	290	1108/9510	4400/5305		
	Specific Conductivity (uS/cm)	112	482	452	704/19499	7678/10419		
	Chloride (mg/L)	99	11	<10	91/6500	2219/2689		
	Sulfate (mg/L)	99	30	27	115/851	451/545		
Nutrients	Total Phosphorus (mg/L)	113	0.053	0.018	0.029/1.580	0.326/0.506		
	Total Nitrogen (mg/L)	113	0.62	0.40	0.58/6.40	1.87/2.36		
	Nitrate/Nitrite (mg/L)	113	0.14	<0.05	<0.05/4.99	0.95/1.44		
	Chlorophyll A (mg/m ³)	20	4.0	1.6	0.3/86.2	26.1/41.6	TSI=44.1	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	22	1842	132	<10/18000	149/1925	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	22	1376	152	<10/2415	121/510	Mean>OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	U	S						S	U	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

Beaver River at Ft. Supply



Sample Record	Times Visited	Station ID
November 1998 - Current	146	720500020010-002AT

Stream Data	County	Harper	Request Data By Email
	Location	Northwest of the Town of Ft. Supply on State Highway 183	
	Latitude/Longitude	36.5908354, -99.59121563	
	Planning Watershed	Panhandle (8-digit HUC - 11100201)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	143	18.2	18.8	-0.1/36.2	10.9/25.9
Turbidity (NTU)	146		11	6	1/65	4/12		
pH (units)	140		8.03	8.07	7.26/8.58	7.90/8.24		
Dissolved Oxygen (mg/L)	142		9.80	9.99	1.46/16.50	8.16/11.74	25% of values < OWQS and 25% of values < alt OWQS	
Hardness (mg/L)	144		522	469	238/1260	374/589		
Minerals	Total Dissolved Solids (mg/L)	83	944	800	401/1920	698/1110		
	Specific Conductivity (uS/cm)	144	1572	1443	650/3419	1222/1740		
	Chloride (mg/L)	145	226	204	69/786	179/232		
	Sulfate (mg/L)	144	294	248	47/1170	169/322		
Nutrients	Total Phosphorus (mg/L)	145	0.038	0.024	<0.005/0.169	0.014/0.053		
	Total Nitrogen (mg/L)	146	0.72	0.71	0.20/1.60	0.48/0.90		
	Nitrate/Nitrite (mg/L)	146	0.21	0.05	<0.05/1.17	<0.05/0.32		
	Chlorophyll A (mg/m ³)	69	4.4	3.4	0.3/28.4	1.7/5.3	TSI=45.0	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	28	482	243	20/3000	103/582	Mean > OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	28	138	80	<10/437	20/180	Mean > OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	NS	S						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish Consumption not supporting for Lead

Beaver River at Turpin



Sample Record	Times Visited	Station ID
November 2000 – May 2008	69	720500020450-001AT

Stream Data	County	Beaver	Request Data By Email
	Location	South of the Town of Turpin on State Highway 83	
	Latitude/Longitude	36.75941268, -100.8439297	
	Planning Watershed	Panhandle (8-digit HUC - 11100102)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	58	15.2	9.0	-0.5/32.6	15.9/22.9
Turbidity (NTU)	59		6	2	2/>1000	17/36		
pH (units)	58		7.87	7.66	7.36/8.70	8.08/8.25		
Dissolved Oxygen (mg/L)	58		10.89	8.65	1.13/21.02	9.50/11.95		
Hardness (mg/L)	59		1177	1039	58/1425	678/793		
Minerals	Total Dissolved Solids (mg/L)	8	6020	5785	10/3410	1510/1722	100% of values>OWQS	
	Specific Conductivity (uS/cm)	59	9288	8582	711/4187	2400/2595		
	Chloride (mg/L)	58	2561	2312	<10/749	381/433	100% of values>OWQS	
	Sulfate (mg/L)	59	705	616	<10/1681	451/575	17% of values>OWQS	
Nutrients	Total Phosphorus (mg/L)	59	0.039	0.018	<0.005/1.890	0.030/0.054		
	Total Nitrogen (mg/L)	59	0.85	0.58	0.14/5.29	0.68/0.86		
	Nitrate/Nitrite (mg/L)	59	0.06	<0.05	<0.05/2.82	0.12/0.29		
	Chlorophyll A (mg/m ³)	15	17.7	2.7	0.0/0.0	0.0/0.0	TSI=58.8	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	19	2250	30	<10/3000	50/350	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	19	1108	41	<10/253	20/36	Mean>OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						NS	S	NS
	Aesthetics												NEI
	Agriculture					NS		NS	NS				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Big Cabin Creek at Big Cabin



Sample Record	Times Visited	Station ID
September 1999 - 2012	131	121600060060-001AT

Stream Data	County	Craig	Request Data By Email
	Location	Northeast of the Town of Big Cabin on road 310	
	Latitude/Longitude	36.56838771, -95.15177919	
	Planning Watershed	Grand (8-digit HUC - 11070209)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	109	16.9	10.0	0.3/32.4	17.2/24.4
Turbidity (NTU)	108		41	18	7/755	28/41		
pH (units)	109		7.60	7.40	6.78/8.79	7.56/7.81		
Dissolved Oxygen (mg/L)	109		7.86	5.85	3.08/18.50	7.38/9.59		
Hardness (mg/L)	107		244	175	13/671	218/292		
Minerals	Total Dissolved Solids (mg/L)	31	369	265	164/964	356/422		
	Specific Conductivity (uS/cm)	108	568	446	165/1385	557/674		
	Chloride (mg/L)	109	21	<10	<10/85	<10/26		
	Sulfate (mg/L)	110	161	96	34/538	140/200	15% of values > OWQS	
Nutrients	Total Phosphorus (mg/L)	110	0.195	0.094	0.026/1.090	0.142/0.217		
	Total Nitrogen (mg/L)	109	1.79	0.93	0.49/11.16	1.36/1.98		
	Nitrate/Nitrite (mg/L)	110	0.80	0.21	<0.05/10.10	0.39/0.82		
	Chlorophyll A (mg/m ³)	55	17.9	3.5	1.2/102.0	9.5/24.0	TSI=58.9	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	31	15901	20	<10/437000	52/616		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	31	1558	31	<10/24196	110/847		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						S	S	S
	Aesthetics												S
	Agriculture					NS		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
NS = Not Supporting
NEI = Not Enough Information

Notes

Bird Creek at Avant



Sample Record	Times Visited	Station ID
January 2012 - Current	21	121300020010-001AT

Stream Data	County	Osage	Request Data By Email
	Location	South of the town of Avant off State Highway 11	
	Latitude/Longitude	36.484775359, -96.059833576	
	Planning Watershed	Middle Arkansas (8-digit HUC -11070107)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	15	19.8	21.9	3.4/29.3	10.8/28.1
Turbidity (NTU)	15		9	7	4/28	6/10		
pH (units)	15		8.01	8.00	7.49/8.44	7.88/8.11		
Dissolved Oxygen (mg/L)	15		9.17	8.41	7.18/13.03	7.89/10.10		
Hardness (mg/L)	15		125	124	85/177	112/136		
Minerals	Total Dissolved Solids (mg/L)	20	178	178	86/289	141/197		
	Specific Conductivity (uS/cm)	15	326	305	181/496	247/374		
	Chloride (mg/L)	20	31	27	11/76	23/37		
	Sulfate (mg/L)	20	20	18	13/34	15/25		
Nutrients	Total Phosphorus (mg/L)	20	0.035	0.030	0.019/0.073	0.025/0.039		
	Total Nitrogen (mg/L)	20	0.55	0.55	0.38/0.90	0.47/0.64		
	Nitrate/Nitrite (mg/L)	20	<0.05	<0.05	<0.05/0.16	<0.05/0.05		
	Chlorophyll A (mg/m ³)	20	7.3	6.7	2.1/19.2	3.8/9.3	TSI=50.1	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	5	141	206	16/248	16/233		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	5	157	20	17/613	18/363		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NEI	NEI	NEI	NEI						NEI	NEI	NEI
	Aesthetics												NEI
	Agriculture					NEI		NEI	NEI				
	Primary Body Contact Recreation									NEI			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Bird Creek at Port of Catoosa



Sample Record	Times Visited	Station ID
November 1998 - Current	170	121300010010-001AT

Stream Data	County	Tulsa	Request Data By Email
	Location	Northwest of the Town of Catoosa on State Highway 266	
	Latitude/Longitude	36.22311412, -95.81921244	
	Planning Watershed	Middle Arkansas (8-digit HUC - 11070107)	

Parameters		Parameter <i>(Descriptions)</i>	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	159	18.0	18.0	2.8/31.9	11.1/25.4
Turbidity (NTU)	159		73	28	6/>1000	19/63		
pH (units)	159		7.61	7.60	6.88/9.12	7.42/7.76		
Dissolved Oxygen (mg/L)	158		8.30	7.92	3.17/19.26	6.62/9.78		
Hardness (mg/L)	159		135	131	58/294	113/159		
Minerals	Total Dissolved Solids (mg/L)	92	241	245	64/454	211/274		
	Specific Conductivity (uS/cm)	158	413	408	26/1570	329/478		
	Chloride (mg/L)	157	43	40	<10/219	31/50		
	Sulfate (mg/L)	157	43	38	19/293	30/45		
Nutrients	Total Phosphorus (mg/L)	170	0.411	0.388	<0.050/1.020	0.267/0.526		
	Total Nitrogen (mg/L)	172	3.13	2.99	<0.10/8.16	2.06/4.09		
	Nitrate/Nitrite (mg/L)	172	2.15	2.00	0.16/6.90	1.06/3.11		
	Chlorophyll A (mg/m ³)	105	8.3	6.4	1.7/86.4	4.5/8.9	TSI=51.4	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	37	3421	146	<10/73000	32/738	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	37	841	78	<10/17329	47/417	Mean>OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	
	Fish & Wildlife Propagation	S	S	S	S						S	NEI	S	
	Aesthetics													S
	Agriculture					S		S	S					
	Primary Body Contact Recreation									NS				
	Public & Private Water Supply				S		S			S				
	Fish Consumption				S									

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Black Bear Creek at Pawnee



Sample Record	Times Visited	Station ID
December 1998 - Current	179	621200030010-001AT

Stream Data	County	Pawnee	Request Data By Email
	Location	North of the Town of Pawnee on State Highway 18	
	Latitude/Longitude	36.34341161, -96.79985204	
	Planning Watershed	Upper Arkansas (8-digit HUC - 11060006)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	167	17.2	18.0	-0.3/33.3	9.3/24.6
Turbidity (NTU)	168		143	54	5/>1000	20/162		
pH (units)	167		7.92	7.93	6.26/8.70	7.67/8.16		
Dissolved Oxygen (mg/L)	167		8.63	8.08	1.70/30.01	6.16/10.13		
Hardness (mg/L)	166		223	214	42/465	139/299		
Minerals	Total Dissolved Solids (mg/L)	105	445	380	132/1170	245/602		
	Specific Conductivity (uS/cm)	166	813	700	158/2215	411/1117		
	Chloride (mg/L)	175	138	105	<10/564	55/197		
	Sulfate (mg/L)	175	47	43	<10/145	32/58		
Nutrients	Total Phosphorus (mg/L)	183	0.240	0.187	<0.010/1.330	0.120/0.333		
	Total Nitrogen (mg/L)	174	1.55	1.42	0.47/4.36	0.95/1.93		
	Nitrate/Nitrite (mg/L)	175	0.36	0.28	<0.05/2.61	<0.05/0.56		
	Chlorophyll A (mg/m ³)	56	19.0	11.9	2.3/81.2	7.7/22.5	TSI=59.5	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	38	1239	287	<10/19000	56/1215	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	38	455	66	<10/10462	20/267		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	
	Fish & Wildlife Propagation	NS	S	S	S						S	U	S	
	Aesthetics													S
	Agriculture					S		S	S					
	Primary Body Contact Recreation									NS				
	Public & Private Water Supply					NEI		NEI		NEI				
	Fish Consumption					NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

Blue River at Durant



Sample Record	Times Visited	Station ID
November 1998 - Current	184	410600010010-001AT

Stream Data	County	Bryan	Request Data By Email
	Location	East of the Town of Durant off State Highway 70	
	Latitude/Longitude	33.99732546, -96.24093554	
	Planning Watershed	Blue-Boggy (8-digit HUC - 11140102)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	168	18.8	18.7	2.7/33.0	12.0/26.2
Turbidity (NTU)	171		63	25	3/707	14/45		
pH (units)	166		8.03	8.06	7.06/8.80	7.90/8.20		
Dissolved Oxygen (mg/L)	168		8.56	8.32	4.14/20.41	6.92/9.82		
Hardness (mg/L)	169		221	234	68/346	197/254		
Minerals	Total Dissolved Solids (mg/L)	52	228	237	68/288	214/251		
	Specific Conductivity (uS/cm)	168	398	413	139/596	349/464		
	Chloride (mg/L)	117	8	10	<10/63	<10/<10		
	Sulfate (mg/L)	116	19	16	<10/82	12/22		
Nutrients	Total Phosphorus (mg/L)	175	0.082	0.052	<0.005/0.497	0.034/0.093		
	Total Nitrogen (mg/L)	172	0.60	0.44	<0.10/3.12	0.29/0.77		
	Nitrate/Nitrite (mg/L)	170	0.15	0.05	<0.05/1.40	0.05/0.19		
	Chlorophyll A (mg/m ³)	67	3.8	3.1	0.2/29.0	0.7/5.3	TSI=43.6	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	45	537	101	<10/5000	32/481		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	45	247	104	<10/2420	41/276		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Brushy Creek at Haileyville



Sample Record	Times Visited	Station ID
November 1998 - 2012	136	220600030010-001AT

Stream Data	County	Pittsburg	Request Data By Email
	Location	Southwest of the Town of Haileyville on State Highway 63	
	Latitude/Longitude	34.843370, -95.614373	
	Planning Watershed	Eufaula (8-digit HUC - 11090204)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	117	17.9	10.9	-0.2/32.0	16.0/22.9
Turbidity (NTU)	119		72	25	2/146	14/25	14% of values > OWQS	
pH (units)	117		7.37	7.08	7.21/8.90	8.00/8.18		
Dissolved Oxygen (mg/L)	117		7.19	5.10	0.06/30.97	8.01/9.82	12% of values < OWQS	
Hardness (mg/L)	117		97	52	70/1263	228/268		
Minerals	Total Dissolved Solids (mg/L)	37	128	98	270/331	295/309		
	Specific Conductivity (uS/cm)	117	276	123	170/668	478/524		
	Chloride (mg/L)	104	26	<10	<10/25	11/13		
	Sulfate (mg/L)	105	63	26	17/81	30/33		
Nutrients	Total Phosphorus (mg/L)	120	0.116	0.053	<0.005/0.504	0.035/0.056		
	Total Nitrogen (mg/L)	119	0.91	0.61	0.16/5.27	0.51/0.68		
	Nitrate/Nitrite (mg/L)	120	0.17	<0.05	<0.05/0.76	<0.05/0.17		
	Chlorophyll A (mg/m ³)	23	5.9	1.3	0.2/24.9	2.4/4.4	TSI=47.9	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	26	944	<10	31/21000	233/1325	Mean > OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	26	1001	<10	74/24192	233/448		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	U	S						S	U	NS
	Aesthetics												NS
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			NS
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes Fish Consumption not supporting for Lead
 Aesthetics, Fish & Wildlife Propagation, Private & Public Water Supply not supporting for oil & grease
 U = Assessment yielded undetermined supporting status

Canadian River at Bridgeport



Sample Record		Times Visited	Station ID
February 1999 - Current		167	520610020150-001AT
Stream Data	County	Blaine	Request Data By Email
	Location	East of the Town of Bridgeport on US Highway 281	
	Latitude/Longitude	35.54292908, -98.31831715	
	Planning Watershed	West Central (8-digit HUC - 11090202)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments		
		In-Situ	Water Temperature (°C)	160	17.3	17.8	-0.6/36.3	10.5/24.6		
	In-Situ	Turbidity (NTU)	157	63	24	3/>1000	10/59			
	In-Situ	pH (units)	156	8.12	8.15	7.60/8.60	7.98/8.28			
	In-Situ	Dissolved Oxygen (mg/L)	159	9.66	9.45	0.38/19.77	8.34/10.56			
	In-Situ	Hardness (mg/L)	161	563	552	126/2100	452/627			
	Minerals	Total Dissolved Solids (mg/L)	99	1014	1070	265/1550	790/1220			
		Minerals	Specific Conductivity (uS/cm)	160	1470	1521	334/2552	1073/1860		
			Minerals	Chloride (mg/L)	160	156	179	12/472	46/231	
				Minerals	Sulfate (mg/L)	162	413	411	106/752	347/469
	Nutrients				Total Phosphorus (mg/L)	162	0.136	0.092	0.010/2.140	0.060/0.136
		Nutrients			Total Nitrogen (mg/L)	161	1.30	1.15	0.38/7.47	0.89/1.48
			Nutrients		Nitrate/Nitrite (mg/L)	162	0.49	0.40	<0.05/2.50	0.09/0.66
				Nutrients	Chlorophyll A (mg/m ³)	78	15.4	8.5	2.3/84.4	5.6/22.2
	Bacteria				Enterococcus (cfu/100ml)(* -Geo. Mn.)	34	734	89	<10/12033	31/388
		Bacteria			E. Coli (cfu/100ml)(* -Geo. Mn.)	34	923	26	<10/24192	<10/95

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		S	S	S	S						S	S
Aesthetics													S
Agriculture						S		S	S				
Primary Body Contact Recreation										NS			
Public & Private Water Supply					NEI		NEI			NEI			
Fish Consumption					NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish Consumption not supporting for Lead

Canadian River at Calvin



Sample Record	Times Visited	Station ID
December 1998 - Current	180	220600010119-001AT

Stream Data	County	Hughes	Request Data By Email
	Location	North of the Town of Calvin on State Highway 270	
	Latitude/Longitude	34.97589666, -96.24231022	
	Planning Watershed	Central (8-digit HUC - 11090202)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	162	18.6	19.0	1.5/36.3	11.6/26.0
Turbidity (NTU)	161		138	41	4/>1000	20/131		
pH (units)	162		8.27	8.27	7.19/9.04	8.13/8.44		
Dissolved Oxygen (mg/L)	162		10.13	9.89	3.79/23.59	8.27/11.71		
Hardness (mg/L)	164		323	311	99/727	247/397		
Minerals	Total Dissolved Solids (mg/L)	100	613	597	312/1064	492/722		
	Specific Conductivity (uS/cm)	162	998	1005	318/1749	751/1243		
	Chloride (mg/L)	162	131	132	25/253	101/169		
	Sulfate (mg/L)	163	167	154	32/473	106/211		
Nutrients	Total Phosphorus (mg/L)	167	0.240	0.195	0.023/1.160	0.135/0.287		
	Total Nitrogen (mg/L)	166	1.59	1.50	0.35/6.36	1.06/1.99		
	Nitrate/Nitrite (mg/L)	167	0.33	<0.05	<0.05/1.83	<0.05/0.53		
	Chlorophyll A (mg/m ³)	101	40.8	29.1	3.4/178.0	17.2/53.7	TSI=67.0	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	54	927	93	<10/24192	28/458	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	54	239	20	<10/2420	<10/87		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						NS	S	NS
	Aesthetics												NEI
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish Consumption not supporting for Lead

Canadian River at Konawa



Sample Record	Times Visited	Station ID
November 1998 - 2012	135	520600010010-001AT

Stream Data	County	Seminole	Request Data By Email
	Location	East of the Town of Konawa on State Highway 377	
	Latitude/Longitude	34.93343848, -96.6830356	
	Planning Watershed	Central (8-digit HUC - 11090202)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	115	18.0	11.0	3.3/32.4	19.4/25.5
Turbidity (NTU)	114		173	22	3/891	39/62		
pH (units)	116		8.27	8.02	7.14/8.71	7.82/8.03		
Dissolved Oxygen (mg/L)	114		9.77	7.89	3.71/18.73	8.26/10.86		
Hardness (mg/L)	115		364	267	<10/301	141/161		
Minerals	Total Dissolved Solids (mg/L)	52	706	551	151/276	212/233	54% of values>OWQS	
	Specific Conductivity (uS/cm)	115	1076	793	158/626	326/403		
	Chloride (mg/L)	114	122	81	<10/145	18/34		
	Sulfate (mg/L)	114	246	147	20/129	43/53		
Nutrients	Total Phosphorus (mg/L)	123	0.327	0.175	0.069/1.039	0.173/0.271		
	Total Nitrogen (mg/L)	115	1.83	1.19	0.61/5.98	1.42/2.25		
	Nitrate/Nitrite (mg/L)	116	0.43	<0.05	0.13/4.67	0.54/1.33		
	Chlorophyll A (mg/m ³)	49	39.2	17.8	1.2/76.7	6.8/13.4	TSI=66.6	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	29	915	26	<10/81000	33/230	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	29	433	<10	<10/7270	15/31		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						S	S	S
	Aesthetics												NEI
	Agriculture					S		S	NS				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Canadian River at Purcell



Sample Record	Times Visited	Station ID
February 1999 - Current	180	520610010010-001AT

Stream Data	County	McClain	Request Data By Email
	Location	East of the Town of Purcell on State Highway 77	
	Latitude/Longitude	35.01433266, -97.35035449	
	Planning Watershed	Central (8-digit HUC - 11090202)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	160	17.4	18.6	-2.3/34.1	11.0/24.6
Turbidity (NTU)	159		128	32	4/>1000	14/122		
pH (units)	160		8.34	8.25	7.36/9.85	8.06/8.56		
Dissolved Oxygen (mg/L)	160		10.49	10.20	4.21/26.87	8.36/12.33		
Hardness (mg/L)	162		421	429	74/990	299/537		
Minerals	Total Dissolved Solids (mg/L)	100	799	782	285/1804	645/960		
	Specific Conductivity (uS/cm)	161	1232	1258	303/2215	908/1577		
	Chloride (mg/L)	165	136	130	20/419	88/180		
	Sulfate (mg/L)	165	278	271	41/972	184/351		
Nutrients	Total Phosphorus (mg/L)	173	0.554	0.440	0.011/2.765	0.282/0.728		
	Total Nitrogen (mg/L)	166	3.04	2.72	0.56/11.87	2.08/3.67		
	Nitrate/Nitrite (mg/L)	167	1.23	0.91	<0.05/9.69	0.21/1.57		
	Chlorophyll A (mg/m ³)	105	61.4	38.1	0.5/211.0	11.9/106.5	TSI=71.0	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	35	2243	345	<10/31700	100/921		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	35	983	41	<10/19863	13/687		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						U	S	S
	Aesthetics												NEI
	Agriculture					S		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

Canadian River at Taloga



Sample Record	Times Visited	Station ID
November 1998 - 2012	106	520620020010-001AT

Stream Data	County	Dewey	Request Data By Email
	Location	North of the Town of Taloga on State Highway 183	
	Latitude/Longitude	36.05419703, -98.96894778	
	Planning Watershed	West-Central (8-digit HUC - 11090201)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	93	15.2	7.5	0.3/32.3	19.0/26.0
Turbidity (NTU)	99		46	10	2/>1000	44/142		
pH (units)	93		8.08	7.94	6.84/8.67	8.10/8.26		
Dissolved Oxygen (mg/L)	93		10.24	8.22	3.88/17.75	8.61/10.30		
Hardness (mg/L)	94		709	560	72/980	304/388		
Minerals	Total Dissolved Solids (mg/L)	53	1367	1245	130/2290	686/802		
	Specific Conductivity (uS/cm)	96	2337	2102	204/4335	1207/1571		
	Chloride (mg/L)	102	343	285	29/1360	234/311	19% of values>OWQS	
	Sulfate (mg/L)	103	508	355	<10/261	39/48		
Nutrients	Total Phosphorus (mg/L)	108	0.066	0.016	<0.005/2.050	0.052/0.106		
	Total Nitrogen (mg/L)	103	0.81	0.42	<0.05/6.06	0.61/0.94		
	Nitrate/Nitrite (mg/L)	104	0.27	<0.05	<0.05/1.07	<0.05/0.11		
	Chlorophyll A (mg/m ³)	0	0.0	0.0	<0.1/90.3	3.5/6.8	No Data	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	17	308	<10	<10/93000	106/571		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	17	42	<10	<10/5794	54/139		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						S	S	S
	Aesthetics												S
	Agriculture					S		NS	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes											

Canadian River at Whitefield



Sample Record	Times Visited	Station ID
September 1999 - Current	157	220300000010-001AT

Stream Data	County	Haskell	Request Data by Email
	Location	North of the Town of Whitefield on State Highway 2	
	Latitude/Longitude	35.26306098, -95.23915454	
	Planning Watershed	Lower Arkansas (8-digit HUC - 11090204)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	150	18.4	20.0	1.3/33.0	12.0/25.0
Turbidity (NTU)	152		21	6	1/812	4/16		
pH (units)	149		7.96	7.96	6.39/8.68	7.76/8.20		
Dissolved Oxygen (mg/L)	149		9.11	9.15	2.25/18.95	7.24/10.94		
Hardness (mg/L)	150		148	145	43/317	127/161		
Minerals	Total Dissolved Solids (mg/L)	89	224	215	169/480	198/242		
	Specific Conductivity (uS/cm)	149	422	414	197/720	372/479		
	Chloride (mg/L)	156	40	36	14/74	30/48		
	Sulfate (mg/L)	156	45	43	23/100	36/55		
Nutrients	Total Phosphorus (mg/L)	158	0.058	0.045	<0.005/0.950	0.028/0.070		
	Total Nitrogen (mg/L)	157	0.64	0.61	0.21/1.40	0.47/0.78		
	Nitrate/Nitrite (mg/L)	158	0.17	0.14	<0.05/0.56	<0.05/0.25		
	Chlorophyll A (mg/m ³)	81	5.1	4.0	<0.1/28.0	2.6/6.3	TSI=46.6	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	37	217	10	<10/6867	<10/19		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	37	85	23	<10/1860	<10/38		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						U	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

Caney Creek at Barber



Sample Record		Times Visited	Station ID
September 1999 - 2012		145	121700040010-001AT
Stream Data	County	Cherokee	Request Data by Email
	Location	North of the Town of Barber off State Highway 100	
	Latitude/Longitude	35.72381643, -94.85787184	
	Planning Watershed	Lower Arkansas (8-digit HUC - 11110103)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	99	18.1	17.6	4.1/29.3	13.0/23.3
Turbidity (NTU)	100		4	2	1/103	1/3		
pH (units)	97		7.77	7.76	6.46/9.06	7.56/8.02		
Dissolved Oxygen (mg/L)	99		9.66	9.42	3.94/15.60	8.29/11.12		
Hardness (mg/L)	99		109	109	64/174	98/120		
Minerals	Total Dissolved Solids (mg/L)	12	149	143	116/237	133/157		
	Specific Conductivity (uS/cm)	99	219	218	123/391	200/243		
	Chloride (mg/L)	90	<10	<10	<10/37	<10/<10		
	Sulfate (mg/L)	90	<10	<10	<10/33	<10/<10		
Nutrients	Total Phosphorus (mg/L)	105	0.060	0.037	<0.005/1.532	0.030/0.047		
	Total Nitrogen (mg/L)	104	1.14	1.05	0.18/7.06	0.71/1.41		
	Nitrate/Nitrite (mg/L)	105	0.99	0.91	0.06/6.68	0.55/1.26		
	Chlorophyll A (mg/m ³)	53	1.3	0.8	<0.1/12.1	0.5/1.2	TSI=32.9	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	46	94	20	<10/1408	<10/52	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	46	124	15	<10/2382	<10/41	Mean>OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chloride	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		S	S	S	S						S	NS
Aesthetics													S
Agriculture						S		S	S				
Primary Body Contact Recreation										NS			
Public & Private Water Supply					S		S			S			
Fish Consumption					S								
S = Fully Supporting NS = Not Supporting NEI = Not Enough Information		Notes											

Caney River at Ramona



Sample Record	Times Visited	Station ID
December 1998 - Current	175	121400010010-001AT

Stream Data	County	Washington	Request Data by Email
	Location	Southeast of the Town of Ramona on County Road E0350	
	Latitude/Longitude	36.50889974, -95.84265966	
	Planning Watershed	Middle Arkansas (8-digit HUC - 11070106)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	158	17.5	18.3	0.8/35.1	10.4/25.5
Turbidity (NTU)	161		104	49	6/>1000	27/105	33% of values>OWQS	
pH (units)	158		7.88	7.86	6.65/9.09	7.67/8.06		
Dissolved Oxygen (mg/L)	158		9.24	8.87	3.46/18.08	7.15/11.13		
Hardness (mg/L)	159		152	154	<10/358	120/175		
Minerals	Total Dissolved Solids (mg/L)	50	218	221	20/350	168/272		
	Specific Conductivity (uS/cm)	157	376	372	38/989	289/469		
	Chloride (mg/L)	115	38	25	<10/377	14/49		
	Sulfate (mg/L)	115	31	28	<10/112	19/37		
Nutrients	Total Phosphorus (mg/L)	171	0.147	0.121	<0.005/0.726	0.073/0.172		
	Total Nitrogen (mg/L)	170	1.26	1.05	0.26/4.36	0.78/1.38		
	Nitrate/Nitrite (mg/L)	171	0.42	0.28	<0.05/2.90	0.08/0.47		
	Chlorophyll A (mg/m ³)	103	23.3	13.9	0.5/268.0	8.0/27.9	TSI=61.5	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	46	2061	45	<10/87000	20/172	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	46	233	52	<10/5475	14/107		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	NS						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Lead

Chikaskia River at Blackwell



Sample Record	Times Visited	Station ID
December 1998 - Current	171	621100000010-001AT

Stream Data	County	Key	Request Data by Email
	Location	East of the Town of Blackwell on State Highway 177	
	Latitude/Longitude	36.81155311, -97.27808293	
	Planning Watershed	Upper Arkansas (8-digit HUC - 11060005)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	162	16.9	17.1	-0.9/34.0	9.4/25.6
Turbidity (NTU)	163		124	42	6/>1000	23/96	24% of values>OWQS	
pH (units)	160		8.02	8.05	6.24/9.29	7.83/8.25		
Dissolved Oxygen (mg/L)	162		10.67	9.58	2.53/48.86	8.24/12.41		
Hardness (mg/L)	161		369	331	80/3720	248/410		
Minerals	Total Dissolved Solids (mg/L)	97	662	588	195/3840	489/684		
	Specific Conductivity (uS/cm)	162	990	920	33/6238	685/1126		
	Chloride (mg/L)	162	149	119	12/1970	72/158		
	Sulfate (mg/L)	162	121	108	30/765	84/138		
Nutrients	Total Phosphorus (mg/L)	170	0.207	0.155	0.013/1.240	0.089/0.263		
	Total Nitrogen (mg/L)	161	1.80	1.74	0.48/6.63	1.23/2.23		
	Nitrate/Nitrite (mg/L)	162	0.91	0.81	<0.05/3.09	0.29/1.31		
	Chlorophyll A (mg/m ³)	101	19.3	11.8	<0.1/138.0	4.8/28.3	TSI=59.7	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	34	5317	156	20/147000	52/1700	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	34	331	20	<10/3968	<10/256		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	S						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				NS								
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes											

Chikaskia River at Tonkawa



Sample Record	Times Visited	Station ID
March 2013 - Current	50	621100000010-002RS

Stream Data	County	Kay	Request Data by Email
	Location	Northeast of the Town of Tonkawa off State Highway 60	
	Latitude/Longitude	36.637358, -97.23295	
	Planning Watershed	Upper Arkansas (8-digit HUC - 11060005)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	50	17.3	19.8	0.0/28.5	10.0/25.8
Turbidity (NTU)	50		127	36	6/>1000	12/116	24% of values > OWQS	
pH (units)	50		8.03	8.06	6.79/8.62	7.88/8.30		
Dissolved Oxygen (mg/L)	50		9.73	9.11	3.70/14.70	7.25/12.16		
Hardness (mg/L)	47		341	335	89/536	266/456		
Minerals	Total Dissolved Solids (mg/L)	45	565	560	220/886	452/679		
	Specific Conductivity (uS/cm)	49	1005	1000	191/4588	715/1162		
	Chloride (mg/L)	45	118	124	<10/238	76/155		
	Sulfate (mg/L)	45	138	133	63/257	103/168		
Nutrients	Total Phosphorus (mg/L)	45	0.239	0.156	0.027/1.113	0.068/0.300		
	Total Nitrogen (mg/L)	45	1.61	1.37	0.68/3.71	1.07/1.88		
	Nitrate/Nitrite (mg/L)	45	0.51	0.53	<0.05/1.28	<0.05/0.96		
	Chlorophyll A (mg/m ³)	45	26.1	26.3	3.0/111.0	10.0/38.2	TSI=62.6	
Bacteria	Enterococcus (cfu/100ml)(* - Geo. Mn.)	6	836	58	31/2420	31/2420	Mean > OWQS	
	E. Coli (cfu/100ml)(* - Geo. Mn.)	6	154	1	<10/461	<10/461		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	S						S	NEI	S
	Aesthetics												NEI
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				NS								
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes											

Cimarron River at Ames



Sample Record	Times Visited	Station ID
March 2003 - Current	129	620910020010-004RS

Stream Data	County	Major	Request Data by Email
	Location	West of the Town of Ames off State Highway 8	
	Latitude/Longitude	36.27979304, -98.31895336	
	Planning Watershed	Central (8-digit HUC - 11050002)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	119	18.0	18.6	-0.9/39.2	10.5/25.3
Turbidity (NTU)	122		40	7	1/>1000	4/15		
pH (units)	119		8.07	8.08	7.40/8.57	7.96/8.21		
Dissolved Oxygen (mg/L)	119		10.51	10.50	5.07/21.06	8.93/11.89		
Hardness (mg/L)	120		1023	1049	422/1815	810/1219		
Minerals	Total Dissolved Solids (mg/L)	78	10045	8985	2050/21700	6510/12450		
	Specific Conductivity (uS/cm)	119	16442	15637	3765/36987	10722/22359		
	Chloride (mg/L)	120	5407	4620	181/13700	3200/7635	21% of values>OWQS	
	Sulfate (mg/L)	120	791	783	300/3210	640/904	35% of values>OWQS	
Nutrients	Total Phosphorus (mg/L)	120	0.051	0.027	<0.005/0.705	0.016/0.042		
	Total Nitrogen (mg/L)	121	0.94	0.88	<0.10/2.69	0.69/1.15		
	Nitrate/Nitrite (mg/L)	120	0.30	0.21	<0.05/1.13	<0.05/0.41		
	Chlorophyll A (mg/m ³)	84	15.1	11.1	1.2/64.9	6.6/22.4	TSI=57.2	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	35	250	52	<10/1203	<10/211		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	35	1111	813	20/3255	228/2420	Mean>OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		S	S	S	NS						NS	S
Aesthetics													S
Agriculture						NS		NS	NS				
Primary Body Contact Recreation										NS			
Public & Private Water Supply					NEI		NEI			NEI			
Fish Consumption					S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Selenium

Cimarron River at Buffalo



Sample Record	Times Visited	Station ID
November 1998 - 2012	123	620920030010-001AT

Stream Data	County	Woods	Request Data by Email
	Location	East of the Town of Buffalo on State Highway 34	
	Latitude/Longitude	36.85209062, -99.31622871	
	Planning Watershed	Panhandle (8-digit HUC - 11050001)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	110	18.1	9.8	-1.0/36.2	17.9/26.5
Turbidity (NTU)	112		23	4	2/715	8/18		
pH (units)	109		8.06	7.89	7.17/8.70	8.10/8.26		
Dissolved Oxygen (mg/L)	107		9.76	8.01	0.67/23.17	9.30/11.43		
Hardness (mg/L)	109		1002	640	119/7000	800/1236		
Minerals	Total Dissolved Solids (mg/L)	49	10596	4129	1746/40000	6060/12750	16% of values > OWQS	
	Specific Conductivity (uS/cm)	110	15831	7712	2030/61252	12466/19014		
	Chloride (mg/L)	110	5073	2220	630/24100	3890/5956	20% of values > OWQS	
	Sulfate (mg/L)	110	613	366	196/1620	498/790		
Nutrients	Total Phosphorus (mg/L)	110	0.080	0.035	<0.005/0.392	0.054/0.096		
	Total Nitrogen (mg/L)	109	0.77	0.46	0.23/2.59	0.63/0.97		
	Nitrate/Nitrite (mg/L)	110	0.20	<0.05	<0.05/1.85	<0.05/0.21		
	Chlorophyll A (mg/m ³)	0	0.0	0.0	0.0/0.0	0.0/0.0	No Data	
Bacteria	Enterococcus (cfu/100ml)(*-Geo. Mn.)	22	1160	38	<10/11000	155/1500	Mean > OWQS	
	E. Coli (cfu/100ml)(*-Geo. Mn.)	22	5818	414	<10/24199	4242/7817	Mean > OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						NS	NS	NS
	Aesthetics												S
	Agriculture					S		NS	NS				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes											

Cimarron River at Dover



Sample Record	Times Visited	Station ID
December 1998 - 2012	138	620910020010-001AT

Stream Data	County	Kingfisher	Request Data by Email
	Location	South of the Town of Dover on US 81	
	Latitude/Longitude	35.95153084, -97.91407037	
	Planning Watershed	Central (8-digit HUC -11050002)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	117	17.7	9.7	-0.3/37.7	17.5/25.3
Turbidity (NTU)	121		135	11	3/>1000	20/84		
pH (units)	117		8.04	7.91	7.00/8.56	8.08/8.20		
Dissolved Oxygen (mg/L)	116		10.09	8.27	4.73/20.53	9.78/11.89		
Hardness (mg/L)	119		833	632	100/2160	836/997		
Minerals	Total Dissolved Solids (mg/L)	52	6130	3698	305/12300	6244/8555		
	Specific Conductivity (uS/cm)	117	11376	7765	134/28860	11352/14832		
	Chloride (mg/L)	118	3461	2165	47/10300	2949/4785		
	Sulfate (mg/L)	119	611	489	96/1025	639/741		
Nutrients	Total Phosphorus (mg/L)	119	0.195	0.051	<0.005/2.350	0.084/0.197		
	Total Nitrogen (mg/L)	118	1.27	0.81	0.53/5.72	1.09/1.47		
	Nitrate/Nitrite (mg/L)	119	0.43	0.09	<0.05/1.73	0.29/0.71		
	Chlorophyll A (mg/m ³)	37	19.2	5.6	1.3/46.5	18.7/31.3	TSI=59.6	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	27	4634	<10	<10/87000	60/600	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	27	1390	183	<10/9208	487/1483	Mean>OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	NS						U	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes Fish & Wildlife Propagation not supporting for Selenium
 U = Assessment yielded undetermined supporting status

Cimarron River at Guthrie



Sample Record	Times Visited	Station ID
December 1998 - Current	174	620910010010-001AT

Stream Data	County	Logan	Request Data by Email
	Location	North of the Town of Guthrie on US 77	
	Latitude/Longitude	35.91981845, -97.4257038	
	Planning Watershed	Central (8-digit HUC -11050002)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ		Water Temperature (°C)	163	17.8	17.4	-1.1/37.3
	Turbidity (NTU)		165	132	33	6/>1000	16/79	16% of values>OWQS
	pH (units)		163	8.14	8.14	7.06/9.72	7.93/8.33	
	Dissolved Oxygen (mg/L)		162	9.97	9.79	4.55/18.09	8.37/11.62	
	Hardness (mg/L)		162	649	610	196/1890	500/774	
Minerals		Total Dissolved Solids (mg/L)	101	4383	4400	1108/9510	3122/5305	
		Specific Conductivity (uS/cm)	160	8083	7678	704/19499	5517/10419	
		Chloride (mg/L)	169	2268	2219	91/6500	1440/2689	
		Sulfate (mg/L)	168	441	451	115/851	335/545	
Nutrients		Total Phosphorus (mg/L)	169	0.405	0.326	0.029/1.580	0.240/0.506	
		Total Nitrogen (mg/L)	168	2.13	1.87	0.58/6.40	1.52/2.36	
		Nitrate/Nitrite (mg/L)	169	1.10	0.95	<0.05/4.99	0.49/1.44	
		Chlorophyll A (mg/m ³)	105	29.7	26.1	0.3/86.2	14.7/41.6	TSI=63.9
Bacteria		Enterococcus (cfu/100ml)(* -Geo. Mn.)	32	1469	149	<10/18000	51/1925	Mean>OWQS
		E. Coli (cfu/100ml)(* -Geo. Mn.)	32	321	121	<10/2415	51/510	Mean>OWQS

Beneficial Uses		Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
		Click to learn more about Beneficial Uses											
Fish & Wildlife Propagation		NS	S	S	S						U	S	S
Aesthetics													NEI
Agriculture						S		S	S				
Primary Body Contact Recreation										NS			
Public & Private Water Supply					S		S			S			
Fish Consumption					S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes U = Assessment yielded undetermined supporting status

Cimarron River at Mocane



Sample Record	Times Visited	Station ID
October 1999 - Current	158	620930000010-001AT

Stream Data	County	Beaver	Request Data by Email
	Location	North of the Town of Mocane off of US 64	
	Latitude/Longitude	36.97516467, -100.3141738	
	Planning Watershed	Panhandle (8-digit HUC -11040006)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	154	17.9	18.0	-0.6/34.9	10.4/24.9
Turbidity (NTU)	156		24	13	3/>1000	6/23		
pH (units)	148		8.29	8.29	7.64/9.40	8.10/8.49		
Dissolved Oxygen (mg/L)	154		10.17	9.70	5.25/21.82	8.55/11.42		
Hardness (mg/L)	154		482	478	47/840	422/540		
Minerals	Total Dissolved Solids (mg/L)	93	2851	2860	2224/3610	2605/3070		
	Specific Conductivity (uS/cm)	154	4604	4553	405/8438	4259/5124		
	Chloride (mg/L)	150	1405	1380	184/2347	1222/1630		
	Sulfate (mg/L)	151	210	207	96/339	194/230		
Nutrients	Total Phosphorus (mg/L)	152	0.293	0.216	<0.005/1.320	0.063/0.492		
	Total Nitrogen (mg/L)	153	1.58	1.14	<0.10/6.10	0.68/2.35		
	Nitrate/Nitrite (mg/L)	152	0.86	0.28	<0.05/5.48	<0.05/1.34		
	Chlorophyll A (mg/m ³)	67	23.6	8.7	1.6/441.0	5.4/14.0	TSI=61.6	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	34	864	158	<10/9000	49/816	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	34	309	102	<10/1986	39/230		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	NS						S	NS	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								
	<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes <i>Fish & Wildlife Propagation not supporting for Selenium</i>										

Cimarron River at Oilton



Sample Record	Times Visited	Station ID
December 1998 - 2012	136	620900010170-001AT

Stream Data	County	Creek	Request Data by Email
	Location	North of the Town of Oilton off State Highway 99	
	Latitude/Longitude	36.09442186, -96.5787792	
	Planning Watershed	Upper Arkansas (8-digit HUC - 11050003)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	121	17.7	9.2	1.7/32.6	21.0/27.0
Turbidity (NTU)	120		207	25	7/194	22/44	35% of values > OWQS	
pH (units)	120		8.22	7.95	6.87/8.97	7.82/8.08	13% of values > OWQS	
Dissolved Oxygen (mg/L)	121		9.81	7.25	5.35/16.48	8.85/10.69		
Hardness (mg/L)	119		481	330	39/658	139/180		
Minerals	Total Dissolved Solids (mg/L)	52	2820	1680	146/536	310/389		
	Specific Conductivity (uS/cm)	121	5092	2842	195/1333	576/734		
	Chloride (mg/L)	116	1463	848	13/293	93/134		
	Sulfate (mg/L)	118	314	215	22/116	51/62		
Nutrients	Total Phosphorus (mg/L)	119	0.365	0.176	0.051/0.330	0.113/0.137		
	Total Nitrogen (mg/L)	117	1.96	1.29	0.45/2.82	0.92/1.12		
	Nitrate/Nitrite (mg/L)	119	0.46	<0.05	<0.05/1.17	0.24/0.46		
	Chlorophyll A (mg/m ³)	36	47.0	15.4	<0.1/71.8	12.7/15.9	TSI=68.4	
Bacteria	Enterococcus (cfu/100ml)(*-Geo. Mn.)	28	738	30	<10/12000	<10/20	Mean > OWQS	
	E. Coli (cfu/100ml)(*-Geo. Mn.)	28	162	<10	<10/2035	<10/18		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		NS	NS	S	S						NS	S
Aesthetics													NEI
Agriculture						S		S	S				
Primary Body Contact Recreation										NS			
Public & Private Water Supply					S		S			S			
Fish Consumption					NS								
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes <i>Fish Consumption not supporting for Lead</i>											

Cimarron River at Ripley



Sample Record	Times Visited	Station ID
October 2000 - Current	156	620900030010-001AT

Stream Data	County	Payne	Request Data by Email
	Location	South of the Town of Ripley on State Highway 33	
	Latitude/Longitude	35.98570275, -96.91305015	
	Planning Watershed	Upper Arkansas (8-digit HUC - 11050003)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	142	17.8	18.8	-1.0/35.5	9.1/26.4
Turbidity (NTU)	143		176	38	5/>1000	15/125		
pH (units)	141		8.28	8.33	7.15/9.18	7.95/8.60		
Dissolved Oxygen (mg/L)	142		10.43	9.88	4.16/19.26	7.81/12.95		
Hardness (mg/L)	143		520	521	142/1050	409/632		
Minerals	Total Dissolved Solids (mg/L)	86	3674	3790	470/7500	2370/4933		
	Specific Conductivity (uS/cm)	142	6133	5826	465/13560	3814/8374		
	Chloride (mg/L)	150	1855	1805	168/4490	1138/2463		
	Sulfate (mg/L)	149	335	338	61/660	254/421		
Nutrients	Total Phosphorus (mg/L)	150	0.377	0.301	0.112/1.370	0.226/0.455		
	Total Nitrogen (mg/L)	149	1.98	1.70	0.83/6.62	1.38/2.26		
	Nitrate/Nitrite (mg/L)	150	0.53	0.31	<0.05/4.96	<0.05/0.91		
	Chlorophyll A (mg/m ³)	91	60.4	46.0	0.7/474.0	26.9/82.2	TSI=71	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	40	567	120	<10/4000	30/400	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	40	342	26	<10/3654	<10/186		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	S						S	S	S
	Aesthetics												NEI
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish Consumption not supporting for Lead

Cimarron River at Waynoka



Sample Record		Times Visited	Station ID
March 2003 - Current		106	620920020010-001RS
Stream Data	County	Woods	Request Data by Email
	Location	South of the Town of Waynoka on State Highway 281	
	Latitude/Longitude	36.516709, -98.87990179	
	Planning Watershed	Central (8-digit HUC - 11050001)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	103	19.4	18.7	-1.5/37.4	12.8/27.4
Turbidity (NTU)	104		31	5	1/>1000	3/12		
pH (units)	101		7.93	7.92	7.28/8.35	7.82/8.06		
Dissolved Oxygen (mg/L)	102		8.83	8.48	3.70/13.52	7.77/9.74		
Hardness (mg/L)	103		1661	1460	162/9160	1150/1756		
Minerals	Total Dissolved Solids (mg/L)	70	27035	25750	8450/55400	17625/35100	88% of values>OWQS	
	Specific Conductivity (uS/cm)	103	38205	36568	7575/74949	27221/48590		
	Chloride (mg/L)	104	13929	12650	804/31900	8780/19150	74% of values>OWQS	
	Sulfate (mg/L)	104	1081	1065	426/1760	903/1240		
Nutrients	Total Phosphorus (mg/L)	102	0.043	0.026	<0.005/0.625	0.012/0.038		
	Total Nitrogen (mg/L)	105	0.59	0.54	<0.10/1.99	0.42/0.69		
	Nitrate/Nitrite (mg/L)	104	0.07	0.05	<0.05/0.99	<0.05/0.05		
	Chlorophyll A (mg/m ³)	62	6.3	4.5	0.8/26.7	2.5/7.8	TSI=48.7	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	20	301	60	<10/1300	13/175		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	20	1416	1011	52/7270	579/1728	Mean>OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses											
	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
Fish & Wildlife Propagation	S	S	S	NS						NS	S	S
Aesthetics												S
Agriculture					S		NS	NS				
Primary Body Contact Recreation									NS			
Public & Private Water Supply				NEI		NEI			NEI			
Fish Consumption				NS								
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes <i>Fish & Wildlife Propagation not supporting for Selenium</i> <i>Fish Consumption not supporting for Mercury</i>										

Clear Boggy Creek at Caney



Sample Record	Times Visited	Station ID
November 1998 - Current	177	410400030010-001AT

Stream Data	County	Atoka	Request Data by Email
	Location	North of the Town of Caney on US 69	
	Latitude/Longitude	34.25148276, -96.2052689	
	Planning Watershed	Blue-Boggy (8-digit HUC -11140104)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	161	18.2	18.0	1.0/32.5	12.0/25.5
Turbidity (NTU)	163		93	41	4/>1000	16/81		
pH (units)	160		7.93	8.00	6.48/9.32	7.74/8.13		
Dissolved Oxygen (mg/L)	161		8.76	8.45	4.73/22.11	6.94/9.96		
Hardness (mg/L)	162		204	206	<10/329	167/254		
Minerals	Total Dissolved Solids (mg/L)	49	302	270	<10/843	223/326		
	Specific Conductivity (uS/cm)	160	458	452	117/1295	346/556		
	Chloride (mg/L)	114	39	24	<10/416	14/38		
	Sulfate (mg/L)	114	31	29	<10/101	24/35		
Nutrients	Total Phosphorus (mg/L)	168	0.156	0.093	<0.005/1.081	0.058/0.147		
	Total Nitrogen (mg/L)	166	0.77	0.59	<0.05/3.39	0.41/0.92		
	Nitrate/Nitrite (mg/L)	166	0.13	<0.05	<0.05/1.19	<0.05/0.16		
	Chlorophyll A (mg/m ³)	49	5.2	4.3	0.9/18.2	2.2/7.4	TSI=46.7	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	39	869	150	<10/5000	30/1733		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	39	454	74	<10/2420	20/488		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	NS						S	NS	NS
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation and Fish Consumption not supporting for Lead

Cow Creek at Waurika



Sample Record	Times Visited	Station ID
December 1998 - Current	87	31120000060-001AT

Stream Data	County	Jefferson	Request Data by Email
	Location	North of Waurika off State Highway 81	
	Latitude/Longitude	34.169208, -98.004862	
	Planning Watershed	Northern Beaver (8-digit HUC - 11130208)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	84	18.4	19.3	3.6/31.5	11.1/26.5
Turbidity (NTU)	85		113	55	19/736	43/118		
pH (units)	84		8.04	8.05	7.35/9.06	7.79/8.29		
Dissolved Oxygen (mg/L)	84		7.83	7.28	2.63/12.79	6.15/9.55		
Hardness (mg/L)	87		271	267	62/556	196/342		
Minerals	Total Dissolved Solids (mg/L)	66	490	528	136/1066	293/635		
	Specific Conductivity (uS/cm)	84	877	876	157/1820	527/1162		
	Chloride (mg/L)	87	109	93	12/1145	43/129		
	Sulfate (mg/L)	87	99	92	24/521	57/116		
Nutrients	Total Phosphorus (mg/L)	87	0.893	0.578	0.140/5.553	0.389/1.270		
	Total Nitrogen (mg/L)	87	4.27	2.28	0.68/16.96	1.48/4.83		
	Nitrate/Nitrite (mg/L)	87	3.04	0.93	<0.05/15.50	0.45/3.84		
	Chlorophyll A (mg/m ³)	47	16.7	12.3	0.8/82.6	3.4/24.1	TSI=58.2	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	14	1274	380	130/8000	201/488		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	14	374	115	20/1733	49/343		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	
	Fish & Wildlife Propagation	NS	S	S	S						NEI	S	NS	
	Aesthetics													NEI
	Agriculture					S		S	S					
	Primary Body Contact Recreation									NEI				
	Public & Private Water Supply				NEI		NEI			NEI				
	Fish Consumption				NS									

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish Consumption not supporting for Lead

Deep Fork River at Beggs



Sample Record	Times Visited	Station ID
November 1998 - Current	170	520700020010-001AT

Stream Data	County	Okmulgee	Request Data By Email
	Location	South of the Town of Beggs off State Highway 16	
	Latitude/Longitude	35.67424336, -96.06876654	
	Planning Watershed	Eufaula (8-digit HUC -11100303)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	155	17.7	18.4	0.7/33.0	10.0/25.4
Turbidity (NTU)	156		166	79	7/>1000	47/215		
pH (units)	156		7.86	7.84	6.82/9.06	7.63/8.06		
Dissolved Oxygen (mg/L)	155		8.54	7.94	3.73/17.19	6.52/10.26		
Hardness (mg/L)	153		227	213	27/1500	168/278		
Minerals	Total Dissolved Solids (mg/L)	105	382	360	50/765	274/482		
	Specific Conductivity (uS/cm)	155	679	655	90/1469	437/899		
	Chloride (mg/L)	165	100	92	<10/273	53/141		
	Sulfate (mg/L)	165	47	44	<10/129	33/59		
Nutrients	Total Phosphorus (mg/L)	164	0.173	0.153	0.014/0.790	0.098/0.218		
	Total Nitrogen (mg/L)	164	1.19	0.99	<0.05/3.53	0.74/1.63		
	Nitrate/Nitrite (mg/L)	165	0.30	0.21	<0.05/2.87	<0.05/0.43		
	Chlorophyll A (mg/m ³)	65	24.7	12.8	2.2/138.0	7.3/28.1	TSI=62.0	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	38	3519	151	<10/113000	41/770	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	38	587	47	<10/14136	<10/201		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	S						NS	S	S
	Aesthetics												NEI
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes Fish Consumption impaired for Lead

Deep Fork River at Stroud



Sample Record	Times Visited	Station ID
November 1998 – December 2012	136	520700040010-001AT

Stream Data	County	Lincoln	Request Data By Email
	Location	South of the Town of Stroud on US 377	
	Latitude/Longitude	35.68609365, -96.6622792	
	Planning Watershed	Central (8-digit HUC -11100303)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	110	17.8	11.0	0.5/30.6	18.4/25.1
Turbidity (NTU)	108		165	14	8/473	50/94		
pH (units)	110		8.21	8.04	7.42/9.17	8.15/8.61		
Dissolved Oxygen (mg/L)	110		9.15	7.63	2.89/25.19	7.37/11.06		
Hardness (mg/L)	110		263	196	94/500	254/352		
Minerals	Total Dissolved Solids (mg/L)	54	455	326	125/1590	454/730		
	Specific Conductivity (uS/cm)	110	803	549	214/3476	877/1417		
	Chloride (mg/L)	114	111	54	12/666	100/180		
	Sulfate (mg/L)	114	54	35	41/296	94/154		
Nutrients	Total Phosphorus (mg/L)	122	0.295	0.150	0.069/1.410	0.447/0.586		
	Total Nitrogen (mg/L)	113	1.23	0.65	0.87/14.26	2.36/3.66		
	Nitrate/Nitrite (mg/L)	114	0.37	<0.05	<0.05/11.80	0.33/1.47		
	Chlorophyll A (mg/m ³)	16	11.0	2.2	<0.1/455.0	49.3/184.3	TSI=54.1	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	28	818	89	108/980	394/488	Mean > OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	28	202	20	<10/517	144/249		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		S	S	S	S						S	S
Aesthetics													NEI
Agriculture						S		S	S				
Primary Body Contact Recreation										NS			
Public & Private Water Supply					NEI		NEI			NEI			
Fish Consumption					S								
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes											

Deep Red Creek at Randlett



Sample Record	Times Visited	Station ID
January 2013 - Current	29	311310030010-001AT

Stream Data	County	Cotton	Request Data By Email
	Location	North of the Town of Randlett on US 277	
	Latitude/Longitude	34.220833, -98.452778	
	Planning Watershed	West Cache (8-digit HUC -11130203)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	29	19.1	20.0	4.9/29.5	14.6/26.1
Turbidity (NTU)	29		253	183	28/825	90/287		
pH (units)	29		8.16	8.13	7.64/8.87	7.86/8.37		
Dissolved Oxygen (mg/L)	29		7.54	7.94	3.60/10.70	5.45/9.39		
Hardness (mg/L)	29		200	166	75/840	131/250		
Minerals	Total Dissolved Solids (mg/L)	29	470	310	240/2530	278/593		
	Specific Conductivity (uS/cm)	29	722	451	249/4141	363/761		
	Chloride (mg/L)	29	118	41	16/992	25/185		
	Sulfate (mg/L)	29	86	73	27/448	35/91		
Nutrients	Total Phosphorus (mg/L)	29	0.253	0.192	0.050/0.550	0.130/0.380		
	Total Nitrogen (mg/L)	29	1.80	1.55	0.89/2.85	1.43/2.45		
	Nitrate/Nitrite (mg/L)	29	0.27	0.20	<0.05/1.22	<0.05/0.41		
	Chlorophyll A (mg/m ³)	29	19.8	21.3	3.4/42.9	6.0/29.1	TSI=59.9	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	10	1396	727	687/2420	717/2420		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	10	672	148	129/2420	143/993		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		NS	S	S	S						S	S
Aesthetics													NEI
Agriculture						S		S	NS				
Primary Body Contact Recreation										NEI			
Public & Private Water Supply					NEI		NEI			NEI			
Fish Consumption					S								
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes											

East Cache Creek at Walters



Sample Record	Times Visited	Station ID
November 1998 - Current	169	311300010020-001AT

Stream Data	County	Cotton	Request Data By Email
	Location	East of the Town of Walters on State Highway 53	
	Latitude/Longitude	34.36188194, -98.28233417	
	Planning Watershed	Beaver-Cache (8-digit HUC -11130202)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	158	18.2	18.8	2.1/35.4	11.2/26.1
Turbidity (NTU)	159		87	56	5/809	27/91		
pH (units)	157		7.93	7.88	7.37/8.64	7.72/8.11		
Dissolved Oxygen (mg/L)	158		8.39	7.72	3.39/16.10	6.52/10.40		
Hardness (mg/L)	159		219	207	95/638	175/248		
Minerals	Total Dissolved Solids (mg/L)	102	478	469	154/916	378/596		
	Specific Conductivity (uS/cm)	157	760	759	160/1893	587/898		
	Chloride (mg/L)	167	75	79	<10/194	46/93		
	Sulfate (mg/L)	167	97	92	31/326	70/116		
Nutrients	Total Phosphorus (mg/L)	167	1.029	0.955	0.047/3.580	0.489/1.430		
	Total Nitrogen (mg/L)	167	4.43	4.15	0.68/11.80	2.05/5.72		
	Nitrate/Nitrite (mg/L)	167	3.10	2.62	<0.05/9.93	0.99/4.39		
	Chlorophyll A (mg/m ³)	61	15.2	8.4	1.0/77.7	5.3/17.6	TSI=57.3	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	36	2130	700	109/43000	257/1120	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	36	330	158	<10/4352	74/395		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		NS	S	S	NS						S	S
Aesthetics													NEI
Agriculture						S		S	S				
Primary Body Contact Recreation										NS			
Public & Private Water Supply					NEI		NEI			NEI			
Fish Consumption					S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Selenium

Elk River at Tiff City (MO)



Sample Record		Times Visited	Station ID
May 1999 – December 2012		138	121600030440-001AT
Stream Data	County	McDonald	Request Data By Email
	Location	Southeast of the Town of Tiff City (MO) on SH 43	
	Latitude/Longitude	36.6314, -94.5867	
	Planning Watershed	Grand (8-digit HUC -11070208)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	114	17.5	11.2	0.5/33.5	19.2/26.2
Turbidity (NTU)	114		4	2	1/347	8/13		
pH (units)	113		7.95	7.74	4.73/9.04	7.09/7.58		
Dissolved Oxygen (mg/L)	114		9.63	7.68	3.66/19.00	8.67/10.45		
Hardness (mg/L)	113		139	127	<10/135	<10/15		
Minerals	Total Dissolved Solids (mg/L)	20	176	164	14/72	38/47		
	Specific Conductivity (uS/cm)	113	291	261	<10/180	37/43		
	Chloride (mg/L)	100	<10	<10	<10/28	<10/<10		
	Sulfate (mg/L)	100	<10	<10	<10/30	<10/<10		
Nutrients	Total Phosphorus (mg/L)	114	0.101	0.031	<0.005/0.281	0.020/0.029		
	Total Nitrogen (mg/L)	113	1.80	1.13	<0.10/2.11	0.43/0.57		
	Nitrate/Nitrite (mg/L)	114	1.59	0.94	<0.01/1.46	<0.05/0.19		
	Chlorophyll A (mg/m ³)	58	2.5	0.6	0.1/15.8	1.9/3.3	TSI=39.7	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	32	113	<10	<10/57000	<10/93		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	32	80	<10	<10/2420	<10/69		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		S	S	S	S						S	S
Aesthetics													S
Agriculture						S		S	S				
Primary Body Contact Recreation										S			
Public & Private Water Supply					NEI		NEI			NEI			
Fish Consumption					S								
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes											

Elk Creek at Roosevelt



Sample Record	Times Visited	Station ID
March 2006 - Current	130	311500030010-002AT

Stream Data	County	Kiowa	Request Data By Email
	Location	West of the Town of Roosevelt off State Highway 19	
	Latitude/Longitude	34.91426897, -99.1137584	
	Planning Watershed	Southwest (8-digit HUC -11120303)	

	Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
In-Situ	Water Temperature (°C)	118	17.7	19.1	-0.7/31.1	9.4/25.4	
	Turbidity (NTU)	123	102	37	3/>1000	22/72	
	pH (units)	117	8.16	8.18	7.45/8.55	8.07/8.28	
	Dissolved Oxygen (mg/L)	118	9.58	9.07	3.58/17.43	6.87/12.22	
	Hardness (mg/L)	123	752	755	212/1980	508/940	
Minerals	Total Dissolved Solids (mg/L)	127	1198	1200	200/2960	820/1520	
	Specific Conductivity (uS/cm)	119	1697	1761	375/3098	1242/2121	
	Chloride (mg/L)	129	141	131	24/428	100/164	
	Sulfate (mg/L)	129	501	486	67/1070	290/679	
Nutrients	Total Phosphorus (mg/L)	88	0.136	0.112	<0.005/0.614	0.072/0.169	
	Total Nitrogen (mg/L)	90	1.40	1.30	<0.10/2.58	0.97/1.77	
	Nitrate/Nitrite (mg/L)	89	0.34	0.05	<0.05/1.85	<0.05/0.62	
	Chlorophyll A (mg/m ³)	61	32.3	28.2	0.4/91.7	13.4/44.4	TSI=64.7
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	15	433	63	<10/2420	41/233	Mean>OWQS
	E. Coli (cfu/100ml)(* -Geo. Mn.)	15	305	62	<10/1733	23/247	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		NS	S	S	NS						S	NS
Aesthetics													NEI
Agriculture						S		S	S				
Primary Body Contact Recreation										NS			
Public & Private Water Supply					NEI		NEI			NEI			
Fish Consumption					S								
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes <i>Fish & Wildlife Propagation not supporting for Selenium</i>											

Elm Fork of the Red River at Carl



Sample Record	Times Visited	Station ID
May 2006 - Current	142	31180000010-002RS

Stream Data	County	Harmon	Request Data By Email
	Location	North of the Town of Carl on State Highway 30	
	Latitude/Longitude	35.011719, -99.903717	
	Planning Watershed	Southwest (8-digit HUC -11120304)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	131	20.6	13.7	-0.9/37.6	22.7/28.8
Turbidity (NTU)	136		56	3	1/>1000	5/8		
pH (units)	130		7.78	7.61	6.80/8.54	7.88/8.03		
Dissolved Oxygen (mg/L)	132		7.42	5.31	0.91/13.18	7.77/9.47		
Hardness (mg/L)	138		4581	2628	856/13670	3545/5480		
Minerals	Total Dissolved Solids (mg/L)	140	58373	18825.0	900/270000	30100/70400		
	Specific Conductivity (uS/cm)	132	72553	29362.50	1678/235299	46775/110593		
	Chloride (mg/L)	142	33790	8457.50	313/181000	15400/41400		
	Sulfate (mg/L)	141	3682	1640.00	138/231001	2000/2365		
Nutrients	Total Phosphorus (mg/L)	81	0.036	<0.005	<0.005/0.945	0.007/0.016		
	Total Nitrogen (mg/L)	89	1.66	1.11	<0.05/4.78	1.40/2.06		
	Nitrate/Nitrite (mg/L)	88	0.31	0.10	<0.05/1.48	0.20/0.43		
	Chlorophyll A (mg/m ³)	51	3.3	1.5	<0.1/21.9	2.3/3.0	TSI=42.2	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	10	485	<10	<10/2420	<10/606		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	10	<10	<10	<10/<10	<10/<10	Not Enough Samples	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	NS	NS						NS	NS	S
	Aesthetics												S
	Agriculture					NS		NS	NS				
	Primary Body Contact Recreation									NEI			
	Public & Private Water Supply				NS		S			S			
	Fish Consumption				S								
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes <i>Fish & Wildlife Propagation not supporting for Selenium</i> <i>Public & Private Water Supply not supporting for Selenium</i>											

Elm Fork of the Red River at Granite



Sample Record	Times Visited	Station ID
June 2004 - Current	148	31180000010-002AT

Stream Data	County	Bryan	Request Data By Email
	Location	South of the city of Granite on State Highway 6	
	Latitude/Longitude	34.92637482, -99.50197667	
	Planning Watershed	Southwest (8-digit HUC - 11120304)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	138	18.3	18.9	-0.1/35.3	10.2/25.8
Turbidity (NTU)	142		83	12	2/>1000	5/26		
pH (units)	138		7.92	7.91	7.20/8.91	7.78/8.02		
Dissolved Oxygen (mg/L)	138		9.32	9.55	2.24/15.84	7.70/10.86		
Hardness (mg/L)	141		2296	2270	240/7140	1875/2687		
Minerals	Total Dissolved Solids (mg/L)	145	14227	12600	890/40500	8390/17600		
	Specific Conductivity (uS/cm)	138	22401	20099	1413/60705	13512/28418		
	Chloride (mg/L)	147	7293	6350	192/25700	3340/9810		
	Sulfate (mg/L)	147	1404	1450	126/2520	1220/1600		
Nutrients	Total Phosphorus (mg/L)	101	0.073	0.025	<0.005/1.700	0.015/0.046		
	Total Nitrogen (mg/L)	105	1.18	1.02	<0.05/5.42	0.77/1.29		
	Nitrate/Nitrite (mg/L)	104	0.29	0.07	<0.05/2.60	<0.05/0.36		
	Chlorophyll A (mg/m ³)	76	11.4	7.4	0.5/73.9	3.0/12.2	TSI=54.5	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	18	1072	387	<10/2420	69/2420	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	18	2710	2101	278/15531	922/2491	Mean>OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	NS						NS	NS	S
	Aesthetics												S
	Agriculture					S		NS	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NS		S			S			
	Fish Consumption				NS								
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes <i>Fish Consumption not supporting for Lead</i> <i>Fish & Wildlife Propagation not supporting for Selenium</i> <i>Public & Private Water Supply not supporting for Selenium</i>											

Flint Creek at Flint



Sample Record		Times Visited	Station ID
November 1998 - Current		192	121700060010-001AT
Stream Data	County	Delaware	Request Data By Email
	Location	North of the Town of Flint on county road	
	Latitude/Longitude	36.1867733, -94.70680493	
	Planning Watershed	Lower Arkansas (8-digit HUC - 11110103)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	147	17.1	17.0	2.5/28.7	11.0/23.0
	In-Situ	Turbidity (NTU)	147	2	1	0/58	1/2	
	In-Situ	pH (units)	146	7.68	7.68	6.44/8.79	7.44/7.89	
	In-Situ	Dissolved Oxygen (mg/L)	147	9.46	9.21	4.97/14.94	8.01/10.73	
	In-Situ	Hardness (mg/L)	150	116	115	<10/218	106/125	
Minerals	Total Dissolved Solids (mg/L)	33	184	174	112/552	158/188		
	Specific Conductivity (uS/cm)	145	296	298	152/452	262/335		
	Chloride (mg/L)	112	15	14	<10/43	<10/19		
	Sulfate (mg/L)	112	17	16	<10/69	12/20		
Nutrients	Total Phosphorus (mg/L)	160	0.178	0.150	0.055/1.450	0.092/0.189	See Notes	
	Total Nitrogen (mg/L)	155	2.87	2.77	<0.05/7.95	2.13/3.53		
	Nitrate/Nitrite (mg/L)	156	2.70	2.51	0.80/7.55	2.03/3.32		
	Chlorophyll A (mg/m ³)	95	1.0	0.8	<0.1/4.2	0.5/1.2	TSI=30.4	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	74	523	41	<10/18000	<10/109	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	74	207	31	<10/4611	<10/74	Mean>OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	Total Phosphorus
	Fish & Wildlife Propagation	S	S	S	S						S	S	S	
	Aesthetics												S	NS
	Agriculture					S		S	S					
	Primary Body Contact Recreation									NS				
	Public & Private Water Supply				S					S				
	Fish Consumption				S									

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

100%(72 of 72) of rolling Geo. Mean exceed OWQS criterion of 0.037 ppm

Fourche-Maline Creek at Red Oak



Sample Record	Times Visited	Station ID
November 1998 - Current	179	220100040020-001AT

Stream Data	County	Latimer	Request Data By Email
	Location	S.E. of the Town of Red Oak off US Highway 270	
	Latitude/Longitude	34.91232472, -95.15608416	
	Planning Watershed	Lower Arkansas (8-digit HUC - 11110105)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	160	17.6	18.9	1.0/31.6	10.5/23.8
Turbidity (NTU)	165		37	27	5/390	17/42		
pH (units)	162		7.15	7.03	5.77/8.76	6.84/7.47		
Dissolved Oxygen (mg/L)	161		6.05	6.01	0.84/15.69	3.18/8.48		
Hardness (mg/L)	162		53	48	<10/212	34/65		
Minerals	Total Dissolved Solids (mg/L)	48	107	104	50/175	84/127		
	Specific Conductivity (uS/cm)	159	167	146	11/1106	101/210		
	Chloride (mg/L)	113	<10	<10	<10/22	10</11		
	Sulfate (mg/L)	114	22	21	<10/49	17/26		
Nutrients	Total Phosphorus (mg/L)	166	0.081	0.068	<0.005/0.867	0.047/0.091		
	Total Nitrogen (mg/L)	164	0.79	0.76	0.16/1.70	0.56/0.97		
	Nitrate/Nitrite (mg/L)	166	0.15	0.12	<0.05/0.97	<0.05/0.22		
	Chlorophyll A (mg/m ³)	47	8.3	3.3	0.8/34.0	2.3/13.4	TSI=51.4	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	42	417	76	<10/8000	51/214	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	42	231	69	<10/1986	30/219		

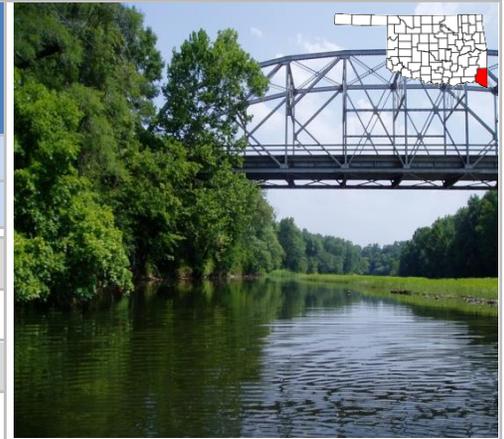
Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		S	S	NS	NS						S	NS
Aesthetics													S
Agriculture						S		S	S				
Primary Body Contact Recreation										NS			
Public & Private Water Supply					NEI		NEI			NEI			
Fish Consumption					S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Lead

Glover River at Glover



Sample Record	Times Visited	Station ID
November 1998 - Current	195	410210080010-001AT

Stream Data	County	McCurtain	Request Data By Email
	Location	West of the Town of Broken Bow on State Highway 3	
	Latitude/Longitude	34.09774144, -94.90248786	
	Planning Watershed	Southeast (8-digit HUC - 11140107)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	167	19.9	20.0	1.8/35.1	12.3/27.1
Turbidity (NTU)	171		11	6	1/89	4/11		
pH (units)	168		7.31	7.25	5.07/9.26	7.03/7.51		
Dissolved Oxygen (mg/L)	168		8.57	8.60	2.52/14.41	7.13/9.99		
Hardness (mg/L)	169		25	16	<10/231	12/26		
Minerals	Total Dissolved Solids (mg/L)	36	47	43	25/95	35/60		
	Specific Conductivity (uS/cm)	167	57	50	<10/437	37/71		
	Chloride (mg/L)	99	7	5	<10/18	<10/10		
	Sulfate (mg/L)	99	9	10	<10/34	<10/10		
Nutrients	Total Phosphorus (mg/L)	166	0.027	0.018	<0.005/0.500	0.013/0.025		
	Total Nitrogen (mg/L)	164	0.46	0.38	<0.05/1.92	0.27/0.55		
	Nitrate/Nitrite (mg/L)	164	0.14	0.05	<0.05/1.42	<0.05/0.16		
	Chlorophyll A (mg/m ³)	99	2.4	2.1	0.1/8.7	0.9/3.2	TSI=39.0	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	55	53	20	<10/400	<10/63		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	55	37	18	<10/354	<10/30		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	NS						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Lead

Honey Creek at Grove



Sample Record	Times Visited	Station ID
December 1998-June 2006	108	121600030290-001AT

Stream Data	County	Delaware	Request Data By Email
	Location	Southeast of the City of Grove on County Road N4670	
	Latitude/Longitude	36.54773713, -94.12072263	
	Planning Watershed	Grand (8-digit HUC - 11070206)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	89	16.6	11.3	-0.1/35.3	18.9/25.8
Turbidity (NTU)	89		3	1	2/<1000	12/26		
pH (units)	89		7.70	7.50	7.20/8.91	7.91/8.02		
Dissolved Oxygen (mg/L)	88		8.72	7.37	2.24/15.84	9.55/10.86		
Hardness (mg/L)	89		150	128	240/7140	2270/2687		
Minerals	Total Dissolved Solids (mg/L)	18	228	178	890/40500	12600/17600		
	Specific Conductivity (uS/cm)	89	495	369	1413/60705	20099/28418		
	Chloride (mg/L)	86	57	26	192/25700	6350/9810		
	Sulfate (mg/L)	86	35	17	126/2520	1450/1600		
Nutrients	Total Phosphorus (mg/L)	93	0.088	0.050	<0.005/1.700	0.025/0.046		
	Total Nitrogen (mg/L)	87	2.87	2.05	<0.10/5.42	1.02/1.29		
	Nitrate/Nitrite (mg/L)	88	2.55	1.69	<0.05/2.60	0.07/0.36		
	Chlorophyll A (mg/m ³)	28	2.3	0.4	0.5/73.9	7.4/12.2	TSI=38.9	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	28	2107	90	<10/2420	387/2420	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	28	211	47	278/15531	2101/2491	Mean>OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Illinois River at Tahlequah



Sample Record		Times Visited	Station ID
November 1998 - Current		195	121700030010-001AT
Stream Data	County	Cherokee	Request Data By Email
	Location	East of the Town of Tahlequah on US Highway 62	
	Latitude/Longitude	35.92606447, -94.92380373	
	Planning Watershed	Lower Arkansas (8-digit HUC - 11110103)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	148	17.6	17.5	0.8/31.7	10.9/24.0
Turbidity (NTU)	147		7	4	0/84	3/6		
pH (units)	146		7.88	7.84	6.47/9.29	7.57/8.13		
Dissolved Oxygen (mg/L)	148		10.01	10.03	4.66/15.88	7.76/12.06		
Hardness (mg/L)	148		115	114	69/161	106/124		
Minerals	Total Dissolved Solids (mg/L)	33	173	160	104/565	137/178		
	Specific Conductivity (uS/cm)	148	272	274	66/713	241/294		
	Chloride (mg/L)	112	11	<10	<10/24	8/14		
	Sulfate (mg/L)	112	14	13	<10/48	11/16		
Nutrients	Total Phosphorus (mg/L)	157	0.077	0.065	<0.005/0.438	0.039/0.103	See Notes	
	Total Nitrogen (mg/L)	157	1.75	1.68	<0.10/3.76	1.17/2.27		
	Nitrate/Nitrite (mg/L)	157	1.52	1.50	0.23/3.61	0.97/1.96		
	Chlorophyll A (mg/m ³)	95	3.6	2.0	<0.1/46.4	1.5/3.1	TSI=43.1	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	73	142	20	<10/2500	<10/100		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	73	61	<10	<10/884	<10/36		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	Total Phosphorus
	Fish & Wildlife Propagation	S	S	S	S						S	S	S	
	Aesthetics												S	NS
	Agriculture					S		S	S					
	Primary Body Contact Recreation									S				
	Public & Private Water Supply				S		S			S				
	Fish Consumption				S									
	<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes	92.5%(74 of 80) of 3-month rolling Geo. Mean above OWQS criterion of 0.037 ppm										

Illinois River at Watts



Sample Record	Times Visited	Station ID
November 1998 - Current	200	121700030350-001AT

Stream Data	County	Adair	Request Data By Email
	Location	North of the Town of Watts on US Highway 59	
	Latitude/Longitude	36.12994064, -94.57151225	
	Planning Watershed	Lower Arkansas (8-digit HUC - 11110103)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	150	17.2	17.5	2.0/31.5	10.4/24.0
Turbidity (NTU)	148		11	6	1/95	4/12		
pH (units)	149		7.90	7.92	6.51/9.03	7.73/8.12		
Dissolved Oxygen (mg/L)	150		10.58	10.29	4.51/18.88	8.65/11.96		
Hardness (mg/L)	151		127	127	10/215	115/138		
Minerals	Total Dissolved Solids (mg/L)	33	194	180	116/566	163/212		
	Specific Conductivity (uS/cm)	150	310	315	149/713	275/341		
	Chloride (mg/L)	111	14	13	<10/28	<10/18		
	Sulfate (mg/L)	111	17	15	<10/97	12/19		
Nutrients	Total Phosphorus (mg/L)	156	0.138	0.092	<0.005/1.153	0.048/0.164	See Notes	
	Total Nitrogen (mg/L)	156	2.49	2.45	<0.10/5.06	2.04/2.88		
	Nitrate/Nitrite (mg/L)	156	2.18	2.18	0.65/4.64	1.70/2.51		
	Chlorophyll A (mg/m ³)	95	3.1	2.2	<0.1/15.3	1.6/3.4	TSI=41.7	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	74	526	20	<10/15531	<10/99	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	74	358	19	<10/12997	<10/63	Mean>OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	Total Phosphorus
	Fish & Wildlife Propagation	S	S	S	S						S	S	S	
	Aesthetics												S	NS
	Agriculture					S		S	S					
	Primary Body Contact Recreation									NS				
	Public & Private Water Supply				S		S			S				
	Fish Consumption				S									

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

91.6%(76 of 83) of rolling Geo. Mean exceed OWQS criterion of 0.037 ppm

Island Bayou at Albany



Sample Record	Times Visited	Station ID
November 1998 - Current	39	410700000040-001AT

Stream Data	County	Bryan	Request Data by Email
	Location	South of the Town of Albany off State Highway 70E	
	Latitude/Longitude	33.853576, -96.16512	
	Planning Watershed	Blue-Boggy (8-digit HUC - 11140101)	

	Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
In-Situ	Water Temperature (°C)	37	16.8	17.2	2.9/28.1	10.4/23.2	
	Turbidity (NTU)	37	86	15	6/798	10/51	
	pH (units)	37	7.70	7.76	7.12/8.20	7.51/7.86	
	Dissolved Oxygen (mg/L)	37	8.72	7.85	5.11/15.22	6.35/10.97	
	Hardness (mg/L)	37	196	205	59/350	151/251	
Minerals	Total Dissolved Solids (mg/L)	39	372	385	130/674	275/469	
	Specific Conductivity (uS/cm)	37	654	707	124/1094	527/897	
	Chloride (mg/L)	39	66	66	<10/134	24/106	
	Sulfate (mg/L)	39	80	75	44/126	68/93	
Nutrients	Total Phosphorus (mg/L)	39	0.384	0.286	0.006/1.200	0.179/0.630	
	Total Nitrogen (mg/L)	39	1.51	1.04	0.54/3.97	0.94/1.82	
	Nitrate/Nitrite (mg/L)	39	0.36	0.19	<0.05/1.69	<0.05/0.48	
	Chlorophyll A (mg/m ³)	39	3.5	3.1	<0.1/12.5	1.6/4.9	TSI=42.8
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	17	649	488	56/2420	132/818	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	17	711	308	15/2420	219/740	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		S	S	S	S						S	S
Aesthetics													NEI
Agriculture						S		S	S				
Primary Body Contact Recreation										NEI			
Public & Private Water Supply					NEI		NEI			NEI			
Fish Consumption					S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Kiamichi River at Antlers



Sample Record	Times Visited	Station ID
November 1998 - Current	187	410300030010-001AT

Stream Data	County	Pushmataha	Request Data by Email
	Location	North of the Town of Antlers on US Highway 271	
	Latitude/Longitude	34.24876734, -95.60509256	
	Planning Watershed	Southeast (8-digit HUC - 11140105)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	167	18.7	18.0	4.4/34.0	11.6/25.2
Turbidity (NTU)	170		27	18	2/173	13/29		
pH (units)	166		7.38	7.39	5.04/9.31	7.01/7.80		
Dissolved Oxygen (mg/L)	166		8.46	7.92	2.47/20.26	7.13/9.75		
Hardness (mg/L)	169		26	19	<10/324	14/27		
Minerals	Total Dissolved Solids (mg/L)	48	53	53	30/100	44/59		
	Specific Conductivity (uS/cm)	167	55	53	<10/390	39/71		
	Chloride (mg/L)	118	<10	<10	<10/<10	<10/<10		
	Sulfate (mg/L)	118	13	11	<10/33	<10/14		
Nutrients	Total Phosphorus (mg/L)	174	0.044	0.034	<0.005/0.328	0.023/0.049		
	Total Nitrogen (mg/L)	171	0.58	0.54	<0.1/1.85	0.39/0.71		
	Nitrate/Nitrite (mg/L)	172	0.11	<0.05	<0.05/1.49	<0.05/0.14		
	Chlorophyll A (mg/m ³)	96	10.8	3.6	0.5/520.0	2.2/6.6	TSI=53.9	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	44	331	56	<10/6000	<10/228	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	44	244	28	<10/4106	<10/99		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	
	Fish & Wildlife Propagation	S	S	S	NS						S	NEI	S	
	Aesthetics													S
	Agriculture					S		S	S					
	Primary Body Contact Recreation									NS				
	Public & Private Water Supply				S		S			S				
	Fish Consumption				NS									

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes Fish Consumption not supporting for Lead
 Fish & Wildlife Propagation not supporting for Silver and Lead

Kiamichi River at Big Cedar



Sample Record	Times Visited	Station ID
November 1998 - Current	182	410310020010-001AT

Stream Data	County	LeFlore	Request Data by Email
	Location	East of the Town of Big Cedar on State Highway 63	
	Latitude/Longitude	34.63884253, -94.61226313	
	Planning Watershed	Southeast (8-digit HUC - 11140105)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	162	17.2	17.7	4.2/33.5	10.8/22.4
Turbidity (NTU)	166		7	6	1/64	5/8		
pH (units)	164		7.04	6.88	5.71/9.02	6.64/7.40	22% of values < OWQS	
Dissolved Oxygen (mg/L)	164		8.46	8.52	3.02/15.05	6.89/10.05		
Hardness (mg/L)	164		15	<10	<10/134	<10/13		
Minerals	Total Dissolved Solids (mg/L)	33	39	26	11/109	23/51		
	Specific Conductivity (uS/cm)	160	22	22	<10/163	14/28		
	Chloride (mg/L)	95	<10	<10	<10/10	<10/<10		
	Sulfate (mg/L)	95	<10	<10	<10/23	<10/<10		
Nutrients	Total Phosphorus (mg/L)	166	0.014	0.011	<0.005/0.076	<0.005/0.018		
	Total Nitrogen (mg/L)	159	0.27	0.22	<0.05/1.13	0.15/0.34		
	Nitrate/Nitrite (mg/L)	160	0.06	<0.05	<0.05/0.70	<0.05/<0.05		
	Chlorophyll A (mg/m ³)	62	0.9	0.4	<0.1/7.0	0.2/0.9	TSI=29.9	
Bacteria	Enterococcus (cfu/100ml)(* - Geo. Mn.)	48	663	25	<10/24000	<10/68		
	E. Coli (cfu/100ml)(* - Geo. Mn.)	48	86	12	<10/1317	<10/45		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	NS	S	NS						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Lead, Copper, Silver, and Zinc

Kiamichi River at Fort Towson



Sample Record	Times Visited	Station ID
February 2002 - 2012	105	410300010010-002AT

Stream Data	County	Bryan	Request Data by Email
	Location	South of the Town of Fort Towson on State Highway 109	
	Latitude/Longitude	33.96940193, -95.27829905	
	Planning Watershed	Southeast (8-digit HUC - 11140150)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	85	18.9	11.8	-0.1/36.2	18.8/25.9
Turbidity (NTU)	86		43	24	1/65	6/12		
pH (units)	85		7.59	7.21	7.26/8.58	8.07/8.24		
Dissolved Oxygen (mg/L)	85		8.83	6.79	1.46/16.50	9.99/11.74		
Hardness (mg/L)	85		41	24	238/1260	469/589		
Minerals	Total Dissolved Solids (mg/L)	16	68	58	401/1920	800/1110		
	Specific Conductivity (uS/cm)	85	76	51	650/3419	1443/1740		
	Chloride (mg/L)	70	11	<10	69/786	204/232		
	Sulfate (mg/L)	70	18	13	47/1170	248/322		
Nutrients	Total Phosphorus (mg/L)	86	0.069	0.043	<0.005/0.169	0.024/0.053		
	Total Nitrogen (mg/L)	85	0.64	0.47	0.20/1.60	0.71/0.90		
	Nitrate/Nitrite (mg/L)	85	0.11	<0.05	<0.05/1.17	<0.05/0.32		
	Chlorophyll A (mg/m ³)	33	9.7	3.1	0.3/28.4	3.4/5.3	TSI=52.9	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	24	419	<10	20/3000	243/582		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	24	60	<10	<10/437	80/180		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	NS						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				NS		S			S			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes
 Fish Consumption not supporting for Lead
 Fish & Wildlife Propagation not supporting for Lead
 Public & Private Water Supply not supporting for Lead

Kiamichi River at Tuskahoma



Sample Record	Times Visited	Station ID
December 1998 - Current	136	410310010010-001AT

Stream Data	County	Pushmataha	Request Data by Email
	Location	South of the Town of Tuskahoma off US Highway 271	
	Latitude/Longitude	34.61236033, -95.27727429	
	Planning Watershed	Southeast (8-digit HUC - 11140105)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	115	19.3	12.6	2.6/35.2	21.5/27.0
Turbidity (NTU)	118		21	10	4/>1000	44/102		
pH (units)	116		7.24	6.91	6.51/8.78	8.03/8.22		
Dissolved Oxygen (mg/L)	116		8.43	6.99	3.71/15.30	8.50/10.29		
Hardness (mg/L)	116		20	11	78/790	209/331		
Minerals	Total Dissolved Solids (mg/L)	19	43	38	144/2260	422/758		
	Specific Conductivity (uS/cm)	115	41	19	137/4559	859/1372		
	Chloride (mg/L)	83	7	<10	<10/1010	134/277		
	Sulfate (mg/L)	82	11	<10	18/300	65/115		
Nutrients	Total Phosphorus (mg/L)	126	0.041	0.023	0.031/1.204	0.140/0.270		
	Total Nitrogen (mg/L)	115	0.47	0.28	0.22/6.33	0.81/1.43		
	Nitrate/Nitrite (mg/L)	116	0.10	<0.05	<0.05/2.91	<0.05/0.45		
	Chlorophyll A (mg/m ³)	30	6.5	1.2	1.1/55.1	14.0/25.3	TSI=48.9	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	26	1539	<10	<10/10000	350/821		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	26	319	18	<10/2420	145/488		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	
	Fish & Wildlife Propagation	S	S	S	NS						S	NEI	S	
	Aesthetics													S
	Agriculture					S		S	S					
	Primary Body Contact Recreation									S				
	Public & Private Water Supply				S		S			S				
	Fish Consumption				S									

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Lead and Silver

Lee Creek at Short



Sample Record	Times Visited	Station ID
January 2003 - Present	197	220200050010-001AT

Stream Data	County	Sequoyah	Request Data by Email
	Location	West of the Town of Short on State Highway 101	
	Latitude/Longitude	35.56589868, -94.53152717	
	Planning Watershed	Lower Arkansas (8-digit HUC - 11110104)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	181	17.6	16.5	0.2/32.5	9.9/25.0
Turbidity (NTU)	180		8	5	1/124	4/8		
pH (units)	181		7.62	7.60	6.31/8.70	7.38/7.84		
Dissolved Oxygen (mg/L)	181		9.37	9.06	5.23/13.94	7.68/11.16		
Hardness (mg/L)	178		47	44	<10/130	36/55		
Minerals	Total Dissolved Solids (mg/L)	25	58	55	40/96	48/67		
	Specific Conductivity (uS/cm)	180	100	98	<10/266	78/113		
	Chloride (mg/L)	92	<10	<10	<10/11	<10/<10		
	Sulfate (mg/L)	92	<10	<10	<10/49	<10/<10		
Nutrients	Total Phosphorus (mg/L)	180	0.013	0.010	<0.005/0.149	<0.005/0.015		
	Total Nitrogen (mg/L)	181	0.29	0.23	0.1/1.72	0.15/0.33		
	Nitrate/Nitrite (mg/L)	180	0.13	<0.05	<0.05/1.62	<0.05/0.14		
	Chlorophyll A (mg/m ³)	149	2.1	0.9	<0.1/92.0	0.4/1.7	TSI=38.1	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	61	413	<10	<10/7100	<10/41		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	61	127	<10	<10/2359	<10/33		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	Total Phosphorus
	Fish & Wildlife Propagation	S	S	S	NS						S	S	S	
	Aesthetics												NEI	NEI
	Agriculture					S		S	S					
	Primary Body Contact Recreation									S				
	Public & Private Water Supply				S									
	Fish Consumption				S									

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Lead

Little River at Cloudy



Sample Record	Times Visited	Station ID
November 1998 - Current	161	410210020140-001AT

Stream Data	County	Pushmataha	Request Data by Email
	Location	East of the Town of Cloudy on Cloudy Road	
	Latitude/Longitude	34.32564049, -95.19911409	
	Planning Watershed	southeast (8-digit HUC - 11140107)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	139	19.6	20.0	2.0/36.3	12.0/26.9
Turbidity (NTU)	138		12	8	1/91	5/15	25% of values > OWQS	
pH (units)	138		7.18	7.13	5.16/8.63	6.87/7.44		
Dissolved Oxygen (mg/L)	138		8.95	8.87	2.81/14.13	7.64/10.35		
Hardness (mg/L)	140		16	<10	<10/200	<10/13		
Minerals	Total Dissolved Solids (mg/L)	53	43	43	20/94	32/50		
	Specific Conductivity (uS/cm)	139	32	35	<10/130	18/42		
	Chloride (mg/L)	112	<10	<10	<10/17	<10/<10		
	Sulfate (mg/L)	112	<10	<10	<10/46	<10/11		
Nutrients	Total Phosphorus (mg/L)	141	0.029	0.019	<0.005/1.043	0.013/0.025		
	Total Nitrogen (mg/L)	135	0.39	0.35	<0.10/1.45	0.24/0.50		
	Nitrate/Nitrite (mg/L)	135	0.10	<0.05	<0.05/0.84	<0.05/0.11		
	Chlorophyll A (mg/m ³)	61	2.4	1.1	<0.1/45.4	0.7/1.6	TSI=39.3	
Bacteria	Enterococcus (cfu/100ml)(* - Geo. Mn.)	40	235	56	<10/2800	<10/158		
	E. Coli (cfu/100ml)(* - Geo. Mn.)	40	107	17	<10/1012	<10/103		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	NS						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish Consumption not supporting for Lead
 Fish & Wildlife Propagation not supporting for Copper, Lead, Zinc, and Silver

Little River at Holly Creek



Sample Record	Times Visited	Station ID
November 2003 - Current	128	410200010200-002AT

Stream Data	County	McCurtain	Request Data by Email
	Location	North of the Town of Idabel on County Road 4615	
	Latitude/Longitude	33.93595796, -94.82864529	
	Planning Watershed	Southeast (8-digit HUC - 11140107)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	113	19.0	20.2	4.2/32.3	11.8/25.8
Turbidity (NTU)	118		17	15	0/65	10/20	38% of values > OWQS	
pH (units)	115		7.22	7.14	6.15/8.62	6.85/7.53		
Dissolved Oxygen (mg/L)	114		9.14	7.68	3.72/78.80	5.97/9.97		
Hardness (mg/L)	115		34	25	<10/251	17/41		
Minerals	Total Dissolved Solids (mg/L)	30	63	54	30/126	44/86		
	Specific Conductivity (uS/cm)	113	90	79	<10/257	51/123		
	Chloride (mg/L)	66	12	<10	<10/31	<10/11		
	Sulfate (mg/L)	65	12	11	<10/22	<10/13		
Nutrients	Total Phosphorus (mg/L)	117	0.038	0.033	<0.005/0.140	0.026/0.048		
	Total Nitrogen (mg/L)	116	0.59	0.53	<0.10/1.40	0.42/0.73		
	Nitrate/Nitrite (mg/L)	116	0.14	0.09	<0.05/0.82	<0.05/0.18		
	Chlorophyll A (mg/m ³)	78	7.3	5.7	0.3/48.2	2.6/9.4	TSI=50.1	
Bacteria	Enterococcus (cfu/100ml)(* - Geo. Mn.)	46	86	15	<10/2200	<10/31		
	E. Coli (cfu/100ml)(* - Geo. Mn.)	46	68	22	<10/1296	<10/46		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	U	NS						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Lead and Silver
 U = Assessment yielded undetermined supporting status

Little Lee Creek at Nicut



Sample Record	Times Visited	Station ID
February 2008 - Current	137	220200050040-001AT

Stream Data	County	Sequoyah	Request Data by Email
	Location	West of the Town of Short on State Highway 101	
	Latitude/Longitude	35.58, -94.56	
	Planning Watershed	Lower Arkansas (8-digit HUC - 11110104)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	135	17.3	17.7	0.3/31.4	9.8/24.7
Turbidity (NTU)	137		8	3	0/223	2/5		
pH (units)	137		7.61	7.57	6.30/8.56	7.41/7.87		
Dissolved Oxygen (mg/L)	137		9.76	9.56	5.01/14.47	8.15/11.81		
Hardness (mg/L)	133		64	62	36/140	53/72		
Minerals	Total Dissolved Solids (mg/L)	35	78	76	50/125	65/86		
	Specific Conductivity (uS/cm)	134	144	138	75/314	119/154		
	Chloride (mg/L)	57	<10	<10	<10/<10	<10/<10		
	Sulfate (mg/L)	57	<10	<10	<10/15	<10/<10		
Nutrients	Total Phosphorus (mg/L)	134	0.013	<0.005	<0.005/0.259	<0.005/0.009		
	Total Nitrogen (mg/L)	134	0.24	0.18	<0.10/1.41	0.15/0.24		
	Nitrate/Nitrite (mg/L)	133	0.10	<0.05	<0.05/0.96	<0.05/0.09		
	Chlorophyll A (mg/m ³)	112	0.9	0.6	<0.1/6.4	0.4/0.9	TSI=29.0	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	23	241	<10	<10/2420	<10/16		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	23	359	<10	<10/6488	<10/13		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	Phosphorus	
	Fish & Wildlife Propagation	S	S	S	S						S	S	S		
	Aesthetics													NEI	NEI
	Agriculture					S		S	S						
	Primary Body Contact Recreation									NEI					
	Public & Private Water Supply				S		S			S					
	Fish Consumption				S										
S = Fully Supporting NS = Not Supporting NEI = Not Enough Information		Notes													

Little River at Sasakwa



Sample Record	Times Visited	Station ID
November 1998 - Current	175	520800010010-001AT

Stream Data	County	Seminole	Request Data by Email
	Location	North of the Town of Sasakwa on State Highway 56	
	Latitude/Longitude	34.96534987, -96.5120113	
	Planning Watershed	Central (8-digit HUC - 11090204)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	166	17.9	19.0	0.3/32.3	10.9/26.0
Turbidity (NTU)	163		148	44	2/>1000	17/142	19% of values>OWQS	
pH (units)	165		8.07	8.10	6.84/8.67	7.94/8.26		
Dissolved Oxygen (mg/L)	166		9.09	8.61	3.88/17.75	7.54/10.30		
Hardness (mg/L)	166		314	304	72/980	226/388		
Minerals	Total Dissolved Solids (mg/L)	101	655	686	130/2290	438/802		
	Specific Conductivity (uS/cm)	166	1186	1207	204/4335	711/1571		
	Chloride (mg/L)	165	245	234	29/1360	138/311		
	Sulfate (mg/L)	164	44	39	<10/261	30/48		
Nutrients	Total Phosphorus (mg/L)	167	0.119	0.052	<0.005/2.050	0.027/0.106		
	Total Nitrogen (mg/L)	166	0.82	0.61	<0.05/6.06	0.42/0.94		
	Nitrate/Nitrite (mg/L)	167	0.11	<0.05	<0.05/1.07	<0.05/0.11		
	Chlorophyll A (mg/m ³)	64	5.8	3.5	<0.1/90.3	1.5/6.8	TSI=47.8	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	48	2614	106	<10/93000	33/571	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	48	389	54	<10/5794	12/139		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	S						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Little River at Tecumseh



Sample Record	Times Visited	Station ID
January 2013- Current	49	520800020010-001AT

Stream Data	County	Potawatomie	Request Data by Email
	Location	South of the Town of Tecumseh on US 177	
	Latitude/Longitude	35.1725, -96.931667	
	Planning Watershed	Central (8-digit HUC - 11090203)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	47	16.0	15.8	0.5/37.3	8.3/23.9
Turbidity (NTU)	47		30	10	3/254	5/21		
pH (units)	47		8.15	8.23	7.54/8.53	8.00/8.30		
Dissolved Oxygen (mg/L)	47		10.02	9.30	7.46/15.28	8.40/11.39		
Hardness (mg/L)	47		277	278	141/404	240/310		
Minerals	Total Dissolved Solids (mg/L)	48	496	522	180/661	420/570		
	Specific Conductivity (uS/cm)	47	953	987	326/1413	906/1110		
	Chloride (mg/L)	50	138	146	16/240	96/170		
	Sulfate (mg/L)	50	51	51	26/72	43/58		
Nutrients	Total Phosphorus (mg/L)	50	0.042	0.020	<0.005/0.246	0.011/0.072		
	Total Nitrogen (mg/L)	50	0.63	0.49	0.26/1.64	0.43/0.69		
	Nitrate/Nitrite (mg/L)	50	0.07	<0.05	<0.05/0.30	<0.05/<0.05		
	Chlorophyll A (mg/m ³)	50	2.9	2.0	0.3/10.3	0.9/3.7	TSI=41.1	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	15	1212	1046	179/2420	291/2420		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	15	524	110	20/2420	31/770		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NEI	NEI	NEI	NEI						NEI	NEI	NEI
	Aesthetics												NEI
	Agriculture					NEI		NEI	NEI				
	Primary Body Contact Recreation									NEI			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				NEI								
	<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>												

Notes

Mountain Fork River at Eagletown



Sample Record	Times Visited	Station ID
November 1998 - Current	181	410210040010-001AT

Stream Data	County	McCurtain	Request Data by Email
	Location	East of the Town of Broken Bow on US Highway 70	
	Latitude/Longitude	34.04168908, -94.62071144	
	Planning Watershed	Southeast (8-digit HUC - 11140108)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	161	16.8	17.1	2.6/29.5	12.2/21.4
Turbidity (NTU)	167		4	3	1/29	2/5		
pH (units)	161		7.26	7.19	4.68/9.30	6.88/7.59		
Dissolved Oxygen (mg/L)	162		9.26	9.14	4.99/12.85	8.12/10.39		
Hardness (mg/L)	163		14	<10	<10/93	<10/14		
Minerals	Total Dissolved Solids (mg/L)	51	31	30	5/84	23/35		
	Specific Conductivity (uS/cm)	160	29	33	<10/181	13/36		
	Chloride (mg/L)	118	<10	<10	<10/27	<10/<10		
	Sulfate (mg/L)	118	<10	<10	<10/15	<10/<10		
Nutrients	Total Phosphorus (mg/L)	168	0.018	0.011	<0.005/0.808	0.006/0.014		
	Total Nitrogen (mg/L)	168	0.43	0.38	<0.10/6.22	0.28/0.47		
	Nitrate/Nitrite (mg/L)	168	0.15	0.14	<0.05/0.50	0.09/0.18		
	Chlorophyll A (mg/m ³)	81	1.4	1.2	<0.1/2.9	1.0/1.8	TSI=33.7	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	53	259	18	<10/4000	<10/120		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	53	70	20	<10/1956	<10/31		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	NS						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				S								
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Lead and Silver

Mountain Fork River at Smithville



Sample Record		Times Visited	Station ID
November 1998 - Current		248	410210060010-001AT

Stream Data	County	McCurtain	Request Data by Email
	Location	East of the Town of Smithville on State Highway 4	
	Latitude/Longitude	34.4616061, -94.63230583	
	Planning Watershed	Southeast (8-digit HUC - 11140108)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)		222	18.4	19.2	0.5/33.5
Turbidity (NTU)			227	15	8	1/347	5/13	
pH (units)			224	7.22	7.09	4.73/9.04	6.86/7.58	
Dissolved Oxygen (mg/L)			223	8.99	8.67	3.66/19.00	7.44/10.45	
Hardness (mg/L)			223	16	<10	<10/135	<10/15	
Minerals	Total Dissolved Solids (mg/L)		41	39	38	14/72	29/47	
	Specific Conductivity (uS/cm)		222	35	37	10/180	29/43	
	Chloride (mg/L)		106	<10	<10	<10/28	<10/<10	
	Sulfate (mg/L)		105	<10	<10	<10/30	<10/<10	
Nutrients	Total Phosphorus (mg/L)		224	0.028	0.020	0.005/0.281	0.011/0.029	
	Total Nitrogen (mg/L)		220	0.48	0.43	0.10/2.11	0.30/0.57	
	Nitrate/Nitrite (mg/L)		219	0.13	<0.05	<0.05/1.46	0.05/0.19	
	Chlorophyll A (mg/m ³)		150	2.6	1.9	<0.1/15.8	0.9/3.3	TSI=40.0
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)		65	1112	<10	<10/57000	<10/93	
	E. Coli (cfu/100ml)(* -Geo. Mn.)		65	125	<10	<10/2420	<10/69	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	Total Phosphorus
	Fish & Wildlife Propagation	S	S	S	NS						S	S	S	
	Aesthetics												S	NEI
	Agriculture					S		S	S					
	Primary Body Contact Recreation									S				
	Public & Private Water Supply				S		S			S				
	Fish Consumption				S									

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Copper, Lead, Silver, and Zinc

Mud Creek at Courtney



Sample Record	Times Visited	Station ID
November 1998 - Current	170	311100040010-001AT

Stream Data	County	Love	Request Data By Email
	Location	Near the Town of Courtney on State Highway 32	
	Latitude/Longitude	34.004167, -97.566667	
	Planning Watershed	Lower Washita (8-digit HUC - 11130201)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	165	19.0	19.5	3.4/32.6	12.8/26.3
Turbidity (NTU)	166		233	113	15/>1000	50/312	60% of values>OWQS	
pH (units)	164		7.86	7.89	7.14/8.81	7.63/8.07		
Dissolved Oxygen (mg/L)	165		6.69	6.66	1.42/17.43	5.08/8.16	13% of values<OWQS and 13% of values<alt OWQS	
Hardness (mg/L)	164		236	215	30/670	131/294		
Minerals	Total Dissolved Solids (mg/L)	100	476	388	93/1380	284/570		
	Specific Conductivity (uS/cm)	164	736	632	90/2292	340/895		
	Chloride (mg/L)	164	96	62	<10/568	25/128		
	Sulfate (mg/L)	163	83	71	20/412	44/109		
Nutrients	Total Phosphorus (mg/L)	165	0.250	0.188	0.024/1.609	0.109/0.338		
	Total Nitrogen (mg/L)	164	1.45	1.28	0.30/4.27	0.83/1.85		
	Nitrate/Nitrite (mg/L)	165	0.20	0.12	<0.05/0.97	<0.05/0.33		
	Chlorophyll A (mg/m ³)	46	26.0	12.0	1.5/164.0	4.9/27.6	TSI=62.6	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	38	826	330	<10/17000	48/613	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	38	209	65	<10/1986	28/299		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	NS	S						S	NEI	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Muddy Boggy Creek at Atoka



Sample Record	Times Visited	Station ID
November 1998 - Current	183	410400050270-001AT

Stream Data	County	Atoka	Request Data By Email
	Location	North of the Town of Atoka on US 69	
	Latitude/Longitude	34.39420542, -96.12436418	
	Planning Watershed	Blue-Boggy (8-digit HUC -11140103)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	162	17.5	17.6	1.7/31.3	10.3/24.9
Turbidity (NTU)	162		141	75	5/>1000	38/152		
pH (units)	162		7.34	7.38	5.92/8.31	7.12/7.58		
Dissolved Oxygen (mg/L)	162		7.45	6.80	2.97/34.62	5.36/9.03	19% of values<OWQS and 6% of values<alt OWQS	
Hardness (mg/L)	161		87	85	24/197	64/107		
Minerals	Total Dissolved Solids (mg/L)	48	202	192	51/405	154/249		
	Specific Conductivity (uS/cm)	161	248	225	62/757	152/307		
	Chloride (mg/L)	113	23	15	<10/148	<10/27		
	Sulfate (mg/L)	113	54	48	16/134	35/64		
Nutrients	Total Phosphorus (mg/L)	167	0.135	0.101	<0.005/0.632	0.066/0.173		
	Total Nitrogen (mg/L)	166	1.14	1.00	0.36/4.21	0.77/1.33		
	Nitrate/Nitrite (mg/L)	166	0.15	0.09	<0.05/0.70	<0.05/0.20		
	Chlorophyll A (mg/m ³)	65	10.6	5.5	<0.1/42.5	2.7/17.6	TSI=53.7	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	50	872	100	<10/19863	42/905	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	50	832	70	<10/19863	19/323		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	NEI	NS						S	NEI	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Lead
 Fish Consumption not supporting for Lead

Muddy Boggy Creek at Unger



Sample Record	Times Visited	Station ID
July 1999 - Current	176	410400010070-001AT

Stream Data	County	Choctaw	Request Data By Email
	Location	East of the Town of Unger on US 70	
	Latitude/Longitude	34.02512076, -95.7511845	
	Planning Watershed	Blue-Boggy (8-digit HUC -11140103)	

Parameters		Parameter <i>(Descriptions)</i>	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ		Water Temperature (°C)	159	18.8	19.4	2.8/36.3
	Turbidity (NTU)		160	111	64	3/857	36/118	36% of values>OWQS
	pH (units)		158	7.69	7.70	6.71/8.21	7.53/7.91	
	Dissolved Oxygen (mg/L)		159	8.35	7.84	3.87/40.07	6.35/10.16	
	Hardness (mg/L)		160	136	139	21/268	104/175	
Minerals		Total Dissolved Solids (mg/L)	42	286	263	95/921	197/310	
		Specific Conductivity (uS/cm)	158	372	380	100/937	235/478	
		Chloride (mg/L)	106	48	36	<10/199	14/66	
		Sulfate (mg/L)	106	35	31	13/134	23/41	
Nutrients		Total Phosphorus (mg/L)	161	0.129	0.092	<0.005/1.017	0.064/0.150	
		Total Nitrogen (mg/L)	161	0.87	0.74	<0.10/2.19	0.55/1.06	
		Nitrate/Nitrite (mg/L)	160	0.13	0.08	<0.05/0.88	<0.05/0.19	
		Chlorophyll A (mg/m ³)	64	9.3	9.1	<0.1/22.3	3.9/14.0	TSI=52.5
Bacteria		Enterococcus (cfu/100ml)(* -Geo. Mn.)	42	641	94	<10/8000	28/732	Mean>OWQS
		E. Coli (cfu/100ml)(* -Geo. Mn.)	42	247	52	<10/2755	18/196	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	S						S	NEI	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish Consumption not supporting for Lead

Neosho River at Chouteau



Sample Record	Times Visited	Station ID
November 1998 - Current	170	121600010280-001AT

Stream Data	County	Mayes	Request Data By Email
	Location	East of the Town of Chouteau on US 412	
	Latitude/Longitude	36.17655098, -95.27570708	
	Planning Watershed	Grand (8-digit HUC - 11070209)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	151	17.9	19.0	3.8/35.3	10.4/24.8
Turbidity (NTU)	152		14	10	3/72	8/15		
pH (units)	151		7.93	7.93	7.11/9.41	7.62/8.20		
Dissolved Oxygen (mg/L)	151		9.37	8.90	2.45/17.25	7.47/11.35	See Notes	
Hardness (mg/L)	152		128	126	75/204	113/140		
Minerals	Total Dissolved Solids (mg/L)	36	169	166	128/240	152/176		
	Specific Conductivity (uS/cm)	151	291	292	141/610	251/323		
	Chloride (mg/L)	88	<10	<10	<10/26	<10/12		
	Sulfate (mg/L)	88	34	32	22/157	27/35		
Nutrients	Total Phosphorus (mg/L)	160	0.222	0.136	<0.005/1.380	0.092/0.246		
	Total Nitrogen (mg/L)	160	1.17	1.07	0.49/2.41	0.86/1.47		
	Nitrate/Nitrite (mg/L)	161	0.51	0.44	<0.05/1.40	0.21/0.74		
	Chlorophyll A (mg/m ³)	98	15.6	13.1	1.5/70.0	7.2/19.0	TSI=57.5	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	44	85	<10	<10/1400	<10/26		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	44	45	<10	<10/882	<10/20		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	NS	S						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes Upstream water quality probes show numerous samples were below 2 mg/L

Neosho River at Commerce



Sample Record		Times Visited	Station ID
October 2000 - Current		160	121600040220-001AT
Stream Data	County	Ottawa	Request Data By Email
	Location	West of the Town of Commerce on County Road E60	
	Latitude/Longitude	36.92899836, -94.95707349	
	Planning Watershed	Grand (8-digit HUC - 11070206)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	140	16.9	17.8	0.3/33.2	8.9/25.2
Turbidity (NTU)	142		114	53	4/>1000	25/99	21% of values>OWQS	
pH (units)	141		7.91	7.96	6.53/9.05	7.71/8.14		
Dissolved Oxygen (mg/L)	141		9.06	8.40	3.34/15.43	7.14/11.02		
Hardness (mg/L)	141		181	177	15/345	146/221		
Minerals	Total Dissolved Solids (mg/L)	21	291	263	140/578	194/351		
	Specific Conductivity (uS/cm)	141	380	378	81/701	300/452		
	Chloride (mg/L)	97	11	<10	<10/20	<10/13		
	Sulfate (mg/L)	97	63	61	22/166	41/77		
Nutrients	Total Phosphorus (mg/L)	152	0.914	0.163	0.007/109.000	0.101/0.250		
	Total Nitrogen (mg/L)	152	1.39	1.17	0.30/4.42	0.69/1.78		
	Nitrate/Nitrite (mg/L)	152	0.41	0.26	<0.05/3.59	<0.05/0.56		
	Chlorophyll A (mg/m ³)	111	18.8	12.6	<0.1/200.0	6.2/22.6	TSI=59.4	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	42	7325	76	<10/282000	26/673	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	42	454	31	<10/8074	<10/81		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		NS	S	S	NS						S	S
Aesthetics													S
Agriculture						S		S	S				
Primary Body Contact Recreation										NS			
Public & Private Water Supply					NEI		NEI			NEI			
Fish Consumption					NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish Consumption not supporting for Lead

Neosho River at Connor Bridge



Sample Record	Times Visited	Station ID
December 1998 – March 2007	105	121600040010-001AT

Stream Data	County	Ottawa	Request Data By Email
	Location	Northeast of the Town of Fairland on County Road S 590	
	Latitude/Longitude	36.79864906, -94.81927419	
	Planning Watershed	Grand (8-digit HUC -11070206)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	68	17.5	18.0	2.9/33.1	8.3/24.5
Turbidity (NTU)	68		87	37	4/>1000	17/97		
pH (units)	67		7.83	7.80	6.66/9.33	7.43/8.20		
Dissolved Oxygen (mg/L)	68		8.54	8.35	1.69/13.58	6.59/11.03		
Hardness (mg/L)	69		181	191	76/277	135/218		
Minerals	Total Dissolved Solids (mg/L)	69	233	235	88/413	193/273		
	Specific Conductivity (uS/cm)	68	376	377	137/860	301/449		
	Chloride (mg/L)	69	12	<10	<10/31	<10/12		
	Sulfate (mg/L)	69	66	67	<10/117	47/86		
Nutrients	Total Phosphorus (mg/L)	70	0.198	0.163	0.047/0.890	0.118/0.251		
	Total Nitrogen (mg/L)	68	1.29	1.18	0.31/3.14	0.77/1.54		
	Nitrate/Nitrite (mg/L)	69	0.44	0.30	<0.05/1.63	0.12/0.72		
	Chlorophyll A (mg/m ³)	15	13.9	11.4	0.9/45.4	4.6/18.0	TSI=56.4	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	23	1697	<10	<10/37000	<10/30		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	23	152	<10	<10/2359	<10/52		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						U	S	S
	Aesthetics												NEI
	Agriculture					S		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

Neosho River at Langley



Sample Record	Times Visited	Station ID
December 1998 - Current	177	121600020170-001AT

Stream Data	County	Mayes	Request Data By Email
	Location	South of the Town of Langley on State Highway 82	
	Latitude/Longitude	36.44372767, -95.05554329	
	Planning Watershed	Grand (8-digit HUC - 11070209)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	154	16.4	17.1	2.1/27.1	10.2/23.2
Turbidity (NTU)	157		9	6	1/59	4/10		
pH (units)	154		7.74	7.75	6.89/9.26	7.52/7.99		
Dissolved Oxygen (mg/L)	155		8.19	7.93	2.12/15.73	6.16/10.34		
Hardness (mg/L)	156		128	125	11/236	113/143		
Minerals	Total Dissolved Solids (mg/L)	38	170	166	125/283	150/185		
	Specific Conductivity (uS/cm)	155	267	271	<10/475	243/299		
	Chloride (mg/L)	114	<10	<10	<10/65	<10/<10		
	Sulfate (mg/L)	114	28	27	17/61	23/31		
Nutrients	Total Phosphorus (mg/L)	166	0.089	0.081	<0.005/0.251	0.060/0.112		
	Total Nitrogen (mg/L)	166	1.04	0.94	0.30/3.56	0.73/1.24		
	Nitrate/Nitrite (mg/L)	167	0.53	0.47	<0.05/3.14	0.26/0.69		
	Chlorophyll A (mg/m ³)	106	5.3	3.9	0.6/23.2	2.2/6.7	TSI=47.0	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	41	36	<10	<10/300	<10/31		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	41	13	<10	<10/86	<10/<10		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	NS	S						U	NEI	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				NEI		NEI				NEI		
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

North Canadian River at Dustin



Sample Record	Times Visited	Station ID
November 1998 – May 2008	122	520500010110-001AT

Stream Data	County	McIntosh	Request Data By Email
	Location	North of the Town of Dustin on State Highway 84	
	Latitude/Longitude	35.31617996, -95.95493326	
	Planning Watershed	Eufaula (8-digit HUC - 11100302)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	86	18.2	18.2	-0.5/34.4	10.8/26.2
Turbidity (NTU)	85		246	133	21/>1000	55/294	78% of values>OWQS	
pH (units)	85		8.27	8.23	7.02/9.48	7.94/8.58		
Dissolved Oxygen (mg/L)	85		9.18	8.98	3.89/16.80	7.22/10.99		
Hardness (mg/L)	87		242	210	89/1900	163/260		
Minerals	Total Dissolved Solids (mg/L)	86	455	451	127/800	367/581		
	Specific Conductivity (uS/cm)	85	725	710	199/1271	587/921		
	Chloride (mg/L)	90	107	113	15/218	73/137		
	Sulfate (mg/L)	89	98	89	34/316	61/119		
Nutrients	Total Phosphorus (mg/L)	90	0.475	0.394	0.147/1.220	0.323/0.598		
	Total Nitrogen (mg/L)	88	2.31	2.08	0.59/5.44	1.60/2.86		
	Nitrate/Nitrite (mg/L)	90	0.59	0.28	<0.05/3.49	<0.05/0.76		
	Chlorophyll A (mg/m ³)	13	93.6	50.3	11.5/287.5	21.1/148.0	TSI=75.0	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	25	861	200	<10/12000	20/537	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	25	75	<10	<10/528	<10/80		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	S						U	S	S
	Aesthetics												NEI
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish Consumption not supporting for Lead
 U = Assessment yielded undetermined supporting status

North Canadian River at El Reno



Sample Record	Times Visited	Station ID
November 1998 - Current	174	520530000010-001AT

Stream Data	County	Canadian	Request Data By Email
	Location	North of the Town of El Reno on US 81	
	Latitude/Longitude	35.56261214, -97.95884556	
	Planning Watershed	Central (8-digit HUC -11100301)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	164	17.6	18.3	-0.3/34.8	9.2/25.4
Turbidity (NTU)	161		50	19	2/>1000	7/46		
pH (units)	161		8.16	8.18	7.10/9.30	7.96/8.35		
Dissolved Oxygen (mg/L)	164		9.63	9.19	0.34/18.69	7.85/11.41		
Hardness (mg/L)	164		456	456	<10/1080	390/520		
Minerals	Total Dissolved Solids (mg/L)	104	860	889	326/1200	795/964		
	Specific Conductivity (uS/cm)	164	1328	1415	<10/2270	1209/1535		
	Chloride (mg/L)	163	142	145	<10/239	117/180		
	Sulfate (mg/L)	163	280	281	111/474	227/329		
Nutrients	Total Phosphorus (mg/L)	165	0.158	0.119	0.005/1.450	0.064/0.217		
	Total Nitrogen (mg/L)	164	1.04	0.89	<0.10/4.70	0.65/1.35		
	Nitrate/Nitrite (mg/L)	163	0.13	<0.05	<0.05/0.69	<0.05/0.19		
	Chlorophyll A (mg/m ³)	98	21.9	13.4	0.5/143.0	4.3/30.2	TSI=60.9	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	36	459	135	<10/6000	45/288	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	36	205	31	<10/2420	<10/116		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

North Canadian River at Harrah



Sample Record	Times Visited	Station ID
November 1998 – December 2012	97	520510000110-001AT

Stream Data	County	Oklahoma	Request Data By Email
	Location	North of the Town of Harrah on State Highway 62	
	Latitude/Longitude	35.50033302, -97.19429527	
	Planning Watershed	Central (8-digit HUC - 11100302)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	81	19.9	12.8	1.9/33.0	18.6/24.9
Turbidity (NTU)	80		118	20	4/>1000	42/80	44% of values>OWQS	
pH (units)	80		8.20	7.84	6.31/8.57	7.33/7.68		
Dissolved Oxygen (mg/L)	81		9.83	7.84	1.41/26.38	6.60/8.41		
Hardness (mg/L)	80		314	203	<10/693	74/99		
Minerals	Total Dissolved Solids (mg/L)	18	596	498	62/254	113/145		
	Specific Conductivity (uS/cm)	81	937	740	18/1291	179/252		
	Chloride (mg/L)	81	131	98	<10/178	<10/18		
	Sulfate (mg/L)	80	128	88	12/369	34/50		
Nutrients	Total Phosphorus (mg/L)	81	1.028	0.573	0.007/1.060	0.077/0.122		
	Total Nitrogen (mg/L)	80	4.31	2.64	0.23/3.39	0.81/1.08		
	Nitrate/Nitrite (mg/L)	81	2.76	0.91	<0.05/1.17	0.11/0.25		
	Chlorophyll A (mg/m ³)	24	45.4	22.3	0.5/33.0	3.7/4.9	TSI=68.0	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	27	1470	85	<10/14136	36/198	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	27	915	20	<10/19863	68/273		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	S						S	S	S
	Aesthetics												NEI
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish Consumption not supporting for Lead

North Canadian River at Seiling



Sample Record	Times Visited	Station ID
November 1998 - Current	173	720500010010-001AT

Stream Data	County	Major	Request Data By Email
	Location	North of the Town of Seiling on US 281	
	Latitude/Longitude	36.18359095, -98.92046478	
	Planning Watershed	Panhandle (8-digit HUC -11100301)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	164	17.1	17.0	-0.5/36.5	10.5/24.3
Turbidity (NTU)	165		37	16	1/>1000	5/38		
pH (units)	160		8.16	8.18	7.19/9.10	8.06/8.30		
Dissolved Oxygen (mg/L)	163		10.14	10.00	1.20/21.73	8.49/11.63		
Hardness (mg/L)	163		559	550	40/2098	455/637		
Minerals	Total Dissolved Solids (mg/L)	103	1091	1100	532/1350	1010/1200		
	Specific Conductivity (uS/cm)	163	1577	1596	547/3250	1445/1741		
	Chloride (mg/L)	162	189	185	<10/540	168/211		
	Sulfate (mg/L)	163	350	352	106/669	294/404		
Nutrients	Total Phosphorus (mg/L)	162	0.103	0.084	<0.005/0.363	0.042/0.129		
	Total Nitrogen (mg/L)	164	1.05	1.00	<0.10/2.58	0.73/1.34		
	Nitrate/Nitrite (mg/L)	163	0.32	0.20	<0.05/1.19	<0.05/0.53		
	Chlorophyll A (mg/m ³)	58	8.6	5.2	0.9/52.5	2.1/9.9	TSI=51.7	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	33	2651	160	<10/76000	31/450	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	33	155	31	<10/3130	<10/102		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						NS	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

North Canadian River at Shawnee



Sample Record		Times Visited	Station ID
February 2002 - 2012		105	520510000110-005AT
Stream Data	County	Pottawatomie	Request Data by Email
	Location	East of the Town of Shawnee on State Highway 3E	
	Latitude/Longitude	35.41056345, -96.78883533	
	Planning Watershed	Central (8-digit HUC - 11100302)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	86	17.9	10.4	-1.0/35.5	18.8/26.4
	In-Situ	Turbidity (NTU)	87	133	22	5/>1000	38/125	33% of values>OWQS
	In-Situ	pH (units)	85	8.30	7.93	7.15/9.18	8.33/8.60	
	In-Situ	Dissolved Oxygen (mg/L)	85	10.30	8.06	4.16/19.26	9.88/12.95	
	In-Situ	Hardness (mg/L)	84	260	207	142/1050	521/632	
Minerals	Total Dissolved Solids (mg/L)	35	579	558	470/7500	3790/4933	14% of values>OWQS	
	Specific Conductivity (uS/cm)	86	854	688	465/13560	5826/8374		
	Chloride (mg/L)	85	119	94	168/4490	1805/2463		
	Sulfate (mg/L)	84	112	78	61/660	338/421		
Nutrients	Total Phosphorus (mg/L)	87	0.887	0.618	0.112/1.370	0.301/0.455		
	Total Nitrogen (mg/L)	87	4.34	2.95	0.83/6.62	1.70/2.26		
	Nitrate/Nitrite (mg/L)	87	2.34	1.04	<0.05/4.96	0.31/0.91		
	Chlorophyll A (mg/m ³)	52	92.5	40.5	0.7/474.0	46.0/82.2	TSI=75.0	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	30	1674	18	<10/4000	120/400	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	30	1189	<10	<10/3654	26/186		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		NS	S	S	S						S	S
Aesthetics													NEI
Agriculture						S		S	NS				
Primary Body Contact Recreation										NS			
Public & Private Water Supply					S		S			S			
Fish Consumption					S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

North Canadian River at Wetumka



Sample Record	Times Visited	Station ID
September 1999 - Current	169	520510000010-001AT

Stream Data	County	Hughes	Request Data By Email
	Location	Northeast of the Town of Wetumka on US 75	
	Latitude/Longitude	35.26449455, -96.20706383	
	Planning Watershed	Central (8-digit HUC -11100302)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	156	19.0	19.8	0.8/36.2	12.2/26.8
Turbidity (NTU)	158		212	98	16/>1000	44/247	40% of values>OWQS	
pH (units)	155		8.41	8.33	7.47/9.90	8.07/8.76	31% of values>OWQS	
Dissolved Oxygen (mg/L)	155		10.24	10.03	4.64/19.46	7.97/12.24		
Hardness (mg/L)	156		235	202	60/2500	172/264		
Minerals	Total Dissolved Solids (mg/L)	94	445	449	238/726	376/512		
	Specific Conductivity (uS/cm)	156	740	742	244/1208	631/884		
	Chloride (mg/L)	158	102	108	11/260	81/126		
	Sulfate (mg/L)	157	90	82	23/247	62/106		
Nutrients	Total Phosphorus (mg/L)	160	0.577	0.483	0.049/1.510	0.393/0.718		
	Total Nitrogen (mg/L)	159	2.98	2.73	0.61/6.39	2.00/3.87		
	Nitrate/Nitrite (mg/L)	160	0.91	0.43	<0.05/4.89	<0.05/1.38		
	Chlorophyll A (mg/m ³)	100	122.0	85.9	4.4/515.0	46.5/188.8	TSI=77.7	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	54	1503	105	<10/34000	28/520	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	54	315	26	<10/7701	<10/136		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	NS	S	S						NS	S	S
	Aesthetics												NEI
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish Consumption not supporting for Lead

North Canadian River at Woodward



Sample Record		Times Visited	Station ID
October 2000 - Current		154	720500010140-001AT
Stream Data	County	Woodward	Request Data By Email
	Location	East of the Town of Woodward on US 412	
	Latitude/Longitude	36.43687215, -99.27835799	
	Planning Watershed	Panhandle (8-digit HUC -11100301)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	142	18.8	19.2	0.3/35.9	12.5/26.0
Turbidity (NTU)	144		18	8	2/125	4/24		
pH (units)	138		8.22	8.22	7.40/9.15	7.99/8.43		
Dissolved Oxygen (mg/L)	140		11.12	10.74	4.67/23.29	8.87/12.68		
Hardness (mg/L)	142		578	530	188/3620	420/716		
Minerals	Total Dissolved Solids (mg/L)	82	1417	1505	384/2160	1138/1725		
	Specific Conductivity (uS/cm)	142	1939	1873	650/3361	1474/2423		
	Chloride (mg/L)	143	301	262	95/600	211/385		
	Sulfate (mg/L)	142	355	330	78/743	225/471		
Nutrients	Total Phosphorus (mg/L)	143	0.210	0.153	0.009/0.845	0.087/0.313		
	Total Nitrogen (mg/L)	145	2.20	1.72	<0.10/7.55	1.30/2.90		
	Nitrate/Nitrite (mg/L)	144	1.21	0.78	<0.05/5.91	0.41/1.76		
	Chlorophyll A (mg/m ³)	83	23.7	11.9	2.4/489.0	6.3/22.5	TSI=61.7	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	34	2456	186	<10/65000	53/625	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	34	635	41	<10/19863	20/63		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		S	S	S	S						S	U
Aesthetics													S
Agriculture						S		S	S				
Primary Body Contact Recreation										NS			
Public & Private Water Supply					S		S			S			
Fish Consumption					S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

Poteau River at Heavener



Sample Record	Times Visited	Station ID
November 1998 – December 2012	141	220100020010-001AT

Stream Data	County	LeFlore	Request Data By Email
	Location	South of the Town of Heavener on State Highway 59	
	Latitude/Longitude	34.85833476, -94.62923436	
	Planning Watershed	Lower Arkansas (8-digit HUC - 11110105)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	118	19.0	12.1	1.9/32.6	18.0/25.5
Turbidity (NTU)	121		23	11	2/944	20/46		
pH (units)	118		7.27	6.92	7.15/9.16	8.13/8.37		
Dissolved Oxygen (mg/L)	118		8.19	6.58	4.51/16.94	9.78/11.10		
Hardness (mg/L)	118		48	21	136/490	239/282		
Minerals	Total Dissolved Solids (mg/L)	20	94	53	209/1460	785/973		
	Specific Conductivity (uS/cm)	118	136	57	411/3436	1418/1821		
	Chloride (mg/L)	77	<10	<10	26/815	283/428		
	Sulfate (mg/L)	78	35	16	27/205	104/121		
Nutrients	Total Phosphorus (mg/L)	114	0.075	0.038	0.073/0.810	0.193/0.237		
	Total Nitrogen (mg/L)	112	0.67	0.46	0.40/3.18	1.29/1.59		
	Nitrate/Nitrite (mg/L)	113	0.19	<0.05	<0.05/1.60	0.54/0.78		
	Chlorophyll A (mg/m ³)	13	9.5	3.2	1.2/140.0	14.3/34.8	TSI=52.7	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	28	65	<10	<10/2420	57/140	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	28	58	13	<10/1515	<10/104		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	
	Fish & Wildlife Propagation	S	S	S	S						S	NEI	S	
	Aesthetics													S
	Agriculture					S		S	S					
	Primary Body Contact Recreation									NS				
	Public & Private Water Supply					NEI		NEI			NEI			
	Fish Consumption				S									

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Poteau River at Pocola



Sample Record	Times Visited	Station ID
November 1998 - Current	191	220100010010-001AT

Stream Data	County	LeFlore	Request Data By Email
	Location	West of the Town of Pocola on County Road E 1220	
	Latitude/Longitude	35.23864842, -94.52021262	
	Planning Watershed	Lower Arkansas (8-digit HUC -11110105)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	184	18.9	19.9	2.9/34.6	11.2/26.0
Turbidity (NTU)	193		69	50	11/476	35/83	13% of values > OWQS	
pH (units)	188		7.31	7.28	5.39/8.99	6.97/7.63		
Dissolved Oxygen (mg/L)	189		8.16	7.97	3.31/15.94	6.54/9.58		
Hardness (mg/L)	191		51	47	<10/414	35/57		
Minerals	Total Dissolved Solids (mg/L)	37	114	96	16/675	71/132		
	Specific Conductivity (uS/cm)	185	144	134	<10/530	85/177		
	Chloride (mg/L)	98	<10	<10	<10/33	<10/<10		
	Sulfate (mg/L)	98	36	33	<10/88	25/45		
Nutrients	Total Phosphorus (mg/L)	191	0.120	0.104	0.017/0.416	0.072/0.146		
	Total Nitrogen (mg/L)	188	1.10	0.98	0.17/6.45	0.79/1.22		
	Nitrate/Nitrite (mg/L)	190	0.36	0.24	0.03/4.96	0.13/0.43		
	Chlorophyll A (mg/m ³)	104	16.6	14.9	1.9/77.3	9.7/21.5	TSI=58.2	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	48	173	40	<10/2420	20/72		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	48	136	26	<10/2420	<10/41		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	NS						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Lead
 Fish Consumption not supporting for Lead

North Fork of the Red River at Carter



Sample Record		Times Visited	Station ID
November 1998 - Current		167	311510010010-001AT
Stream Data	County	Beckham	Request Data By Email
	Location	South of the Town of Carter on State Highway 34	
	Latitude/Longitude	35.16712931, -99.50730365	
	Planning Watershed	Southwest (8-digit HUC -11120302)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	147	18.4	18.9	-0.9/37.1	10.6/25.1
Turbidity (NTU)	152		50	14	1/>1000	6/35		
pH (units)	145		8.09	8.11	7.61/8.55	7.94/8.23		
Dissolved Oxygen (mg/L)	147		10.39	9.40	5.33/113.98	8.11/10.99		
Hardness (mg/L)	150		952	947	89/1960	820/1081		
Minerals	Total Dissolved Solids (mg/L)	91	2014	1921	1132/3420	1770/2160		
	Specific Conductivity (uS/cm)	147	2832	2766	970/5645	2477/3135		
	Chloride (mg/L)	152	406	393	39/1100	308/470		
	Sulfate (mg/L)	152	744	732	64/1450	612/888		
Nutrients	Total Phosphorus (mg/L)	149	0.074	0.032	<0.005/1.333	0.019/0.061		
	Total Nitrogen (mg/L)	150	1.00	0.88	<0.10/3.17	0.67/1.21		
	Nitrate/Nitrite (mg/L)	150	0.32	0.21	<0.05/2.77	<0.05/0.48		
	Chlorophyll A (mg/m ³)	69	11.4	7.8	0.9/70.7	3.2/14.0	TSI=54.4	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	27	300	30	<10/2420	<10/90		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	27	193	20	<10/1733	11/96		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		S	S	S	S						S	NEI
Aesthetics													S
Agriculture						S		S	S				
Primary Body Contact Recreation										S			
Public & Private Water Supply					S		S			S			
Fish Consumption					S								
S = Fully Supporting NS = Not Supporting NEI = Not Enough Information		Notes											

North Fork of the Red River at Headrick



Sample Record		Times Visited	Station ID
November 1998 - Current		217	311500010020-001AT
Stream Data	County	Tillman	Request Data By Email
	Location	East of the Town of Headrick on US 62	
	Latitude/Longitude	34.6379245, -99.10311528	
	Planning Watershed	Southwest (8-digit HUC -11120303)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	200	19.3	19.9	-1.2/35.3	11.7/27.3
Turbidity (NTU)	209		126	11	1/>1000	6/44		
pH (units)	197		8.05	8.10	6.80/9.10	7.86/8.22		
Dissolved Oxygen (mg/L)	200		9.58	9.25	3.57/15.21	8.24/11.04		
Hardness (mg/L)	205		1127	1120	100/4154	865/1384		
Minerals	Total Dissolved Solids (mg/L)	157	5713	5200	660/13700	3985/6905	90% of values>OWQS	
	Specific Conductivity (uS/cm)	201	8924	8506	594/23053	5986/11036		
	Chloride (mg/L)	215	2648	2346	151/9620	1490/3260	98% of values>OWQS	
	Sulfate (mg/L)	214	780	762	34/2702	612/910	30% of values>OWQS	
Nutrients	Total Phosphorus (mg/L)	181	0.138	0.043	<0.005/2.461	0.026/0.088		
	Total Nitrogen (mg/L)	173	1.06	0.75	0.27/7.28	0.62/1.17		
	Nitrate/Nitrite (mg/L)	174	0.22	<0.05	<0.05/1.52	<0.05/0.30		
	Chlorophyll A (mg/m ³)	104	18.9	11.9	0.2/269.0	5.8/22.0	TSI=59.4	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	29	1198	200	<10/19863	51/750	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	29	486	143	<10/8164	74/396	Mean>OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		S	S	S	NS						S	NS
Aesthetics													S
Agriculture						NS		NS	NS				
Primary Body Contact Recreation										NS			
Public & Private Water Supply					NEI		NEI			NEI			
Fish Consumption					S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Selenium

North Fork of the Red River at Tipton



Sample Record	Times Visited	Station ID
February 2013 - Current	48	311500010020-002AT

Stream Data	County	Tillman	Request Data By Email
	Location	West of the Town of Tipton on State Highway 5	
	Latitude/Longitude	34.506944, -99.207778	
	Planning Watershed	Southwest (8-digit HUC -11120303)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	45	20.4	21.3	1.7/33.0	14.9/26.1
Turbidity (NTU)	47		106	20	7/>1000	11/55	12% of values>OWQS	
pH (units)	45		8.31	8.29	7.58/9.33	8.02/8.62		
Dissolved Oxygen (mg/L)	45		11.83	11.08	6.20/20.51	8.66/14.19		
Hardness (mg/L)	47		1036	1056	169/1680	840/1240		
Minerals	Total Dissolved Solids (mg/L)	49	4670	4430	488/7820	3160/6665	90% of values>OWQS	
	Specific Conductivity (uS/cm)	45	7787	7575	711/13832	5145/11160		
	Chloride (mg/L)	49	2289	2140	104/4280	1355/3420	98% of values>OWQS	
	Sulfate (mg/L)	49	652	676	120/1030	559/758	30% of values>OWQS	
Nutrients	Total Phosphorus (mg/L)	49	0.618	0.417	0.083/2.520	0.225/0.846		
	Total Nitrogen (mg/L)	49	2.04	1.80	1.02/4.77	1.53/2.31		
	Nitrate/Nitrite (mg/L)	49	0.78	0.58	0.15/2.24	0.39/1.14		
	Chlorophyll A (mg/m ³)	49	28.0	20.8	4.4/66.4	15.1/41.1	TSI=63.3	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	4	1700	1700	1414/1986	1414/1986	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	4	214	214	99/330	99/330	Mean>OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	NS						S	NEI	S
	Aesthetics												S
	Agriculture					NS		NS	NS				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Selenium

Red River at Burkburnett



Sample Record	Times Visited	Station ID
January 2013 - Current	48	311310010010-002AT

Stream Data	County	Cotton	Request Data By Email
	Location	North of the Town of Burkburnett, Texas on Interstate 44	
	Latitude/Longitude	34.2095473, -98.33061891	
	Planning Watershed	Beaver-Cache (8-digit HUC - 11130102)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	47	18.4	16.8	2.9/30.1	14.3/24.6
Turbidity (NTU)	47		401	104	10/>1000	31/>1000	28% of values>OWQS	
pH (units)	47		7.99	8.01	7.55/8.30	7.81/8.20		
Dissolved Oxygen (mg/L)	47		9.49	9.11	6.88/13.85	7.72/10.43		
Hardness (mg/L)	47		1638	1490	44/2820	1190/1910		
Minerals	Total Dissolved Solids (mg/L)	49	6186	6660	1820/10200	4840/7495	100% of values>OWQS	
	Specific Conductivity (uS/cm)	47	10359	10687	3243/18690	8314/11728		
	Chloride (mg/L)	49	2971	3140	735/5320	2160/3510	100% of values>OWQS	
	Sulfate (mg/L)	49	1225	1250	406/1950	1017/1385	100% of values>OWQS	
Nutrients	Total Phosphorus (mg/L)	49	1.005	0.166	0.032/5.900	0.106/1.470		
	Total Nitrogen (mg/L)	49	3.80	1.60	0.97/17.97	1.39/5.12		
	Nitrate/Nitrite (mg/L)	49	0.33	<0.05	<0.05/1.49	<0.05/0.60		
	Chlorophyll A (mg/m ³)	49	37.4	35.2	3.3/99.6	20.1/47.9	TSI=66.1	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	10	1997	2420	308/2420	1892/2420		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	10	1284	1120	461/2420	955/1580		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	NS						NS	S	S
	Aesthetics												NEI
	Agriculture					NS		NS	NS				
	Primary Body Contact Recreation									NEI			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Selenium

Red River at Davidson



Sample Record	Times Visited	Station ID
November 1998 - Current	207	311310010010-001AT

Stream Data	County	Tillman	Request Data By Email
	Location	South of the Town of Davidson on State Highway 183	
	Latitude/Longitude	34.2115454, -99.08155505	
	Planning Watershed	Beaver-Cache (8-digit HUC - 11130102)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	195	18.9	19.9	-0.8/34.5	11.5/25.3
Turbidity (NTU)	199		262	64	5/>1000	23/256	28% of values>OWQS	
pH (units)	193		8.07	8.10	6.98/9.12	7.92/8.23		
Dissolved Oxygen (mg/L)	195		10.18	9.75	0.48/21.97	8.26/12.01		
Hardness (mg/L)	198		1391	1365	277/2700	1059/1750		
Minerals	Total Dissolved Solids (mg/L)	150	5267	5328	520/13600	3935/6605	100% of values>OWQS	
	Specific Conductivity (uS/cm)	196	8081	8398	1261/21375	6089/9778		
	Chloride (mg/L)	206	2189	2115	219/5980	1553/2720	100% of values>OWQS	
	Sulfate (mg/L)	206	1177	1105	182/6680	874/1350	100% of values>OWQS	
Nutrients	Total Phosphorus (mg/L)	168	0.437	0.181	<0.005/9.400	0.104/0.346		
	Total Nitrogen (mg/L)	168	2.40	1.56	0.58/34.95	1.17/2.18		
	Nitrate/Nitrite (mg/L)	169	0.40	0.19	<0.05/2.34	<0.05/0.67		
	Chlorophyll A (mg/m ³)	99	49.6	42.2	1.6/192.0	22.0/69.0	TSI=68.9	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	27	2093	80	<10/21000	<10/2420	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	27	1370	96	<10/17329	20/281		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	NS						S	S	S
	Aesthetics												NEI
	Agriculture					NS		NS	NS				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								
	<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>												

Notes *Fish & Wildlife Propagation not supporting for Selenium*

Red River at Harris



Sample Record	Times Visited	Station ID
November 1998 - Current	174	410100010010-001AT

Stream Data	County	McCurtain	Request Data By Email
	Location	South of the Town of Harris on State Highway 259	
	Latitude/Longitude	33.68687568, -94.69422864	
	Planning Watershed	Southeast (8-digit HUC - 11140106)	

		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ		Water Temperature (°C)	156	19.9	20.6	3.0/33.5
	Turbidity (NTU)		162	72	42	9/614	24/85	22% of values > OWQS
	pH (units)		157	7.96	8.00	7.10/8.74	7.78/8.18	
	Dissolved Oxygen (mg/L)		156	8.60	8.43	4.17/13.86	7.34/9.83	
	Hardness (mg/L)		159	266	275	14/758	190/324	
Minerals		Total Dissolved Solids (mg/L)	99	567	576	112/1204	348/813	
		Specific Conductivity (uS/cm)	156	1042	1060	156/2423	655/1475	
		Chloride (mg/L)	162	168	165	<10/395	88/240	
		Sulfate (mg/L)	162	147	146	38/308	88/195	
Nutrients		Total Phosphorus (mg/L)	163	0.130	0.102	0.022/0.715	0.079/0.150	
		Total Nitrogen (mg/L)	164	0.97	0.90	<0.10/2.81	0.70/1.16	
		Nitrate/Nitrite (mg/L)	163	0.13	<0.05	<0.05/0.78	<0.05/0.20	
		Chlorophyll A (mg/m ³)	76	25.1	23.9	2.9/87.8	14.6/34.1	TSI=62.2
Bacteria		Enterococcus (cfu/100ml)(* - Geo. Mn.)	51	53	23	<10/600	<10/60	
		E. Coli (cfu/100ml)(* - Geo. Mn.)	51	20	<10	<10/134	<10/21	

	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
		Fish & Wildlife Propagation		NS	S	S	S						U
Aesthetics													NEI
Agriculture						S		S	S				
Primary Body Contact Recreation										S			
Public & Private Water Supply					NEI		NEI			NEI			
Fish Consumption					NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish Consumption not supporting for Lead
 U = Assessment yielded undetermined supporting status

Red River at Hugo



Sample Record	Times Visited	Station ID
November 1998 - Current	200	410400010010-001AT

Stream Data	County	Choctaw	Request Data By Email
	Location	South of the Town of Hugo on State Highway 271	
	Latitude/Longitude	33.87545921, -95.50182137	
	Planning Watershed	Blue-Boggy (8-digit HUC - 11140101)	

	Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
In-Situ	Water Temperature (°C)	159	19.3	19.7	3.5/34.4	12.3/27.0	
	Turbidity (NTU)	161	78	35	7/766	22/67	
	pH (units)	158	8.04	8.07	6.79/8.73	7.84/8.27	
	Dissolved Oxygen (mg/L)	159	9.52	9.30	4.18/39.16	7.91/10.92	
	Hardness (mg/L)	160	288	298	66/480	236/347	
Minerals	Total Dissolved Solids (mg/L)	104	660	690	130/1080	511/862	
	Specific Conductivity (uS/cm)	159	1167	1213	210/2739	913/1520	
	Chloride (mg/L)	164	195	210	<10/394	134/265	
	Sulfate (mg/L)	164	160	160	32/320	111/208	
Nutrients	Total Phosphorus (mg/L)	172	0.116	0.083	0.013/0.925	0.059/0.127	
	Total Nitrogen (mg/L)	163	0.94	0.85	0.24/2.87	0.67/1.01	
	Nitrate/Nitrite (mg/L)	163	0.16	0.06	<0.05/0.82	<0.05/0.23	
	Chlorophyll A (mg/m ³)	79	20.6	18.5	2.7/56.0	9.4/28.3	TSI=60.3
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	44	379	42	<10/3300	<10/475	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	44	124	<10	<10/1607	<10/102	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
		Fish & Wildlife Propagation	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>							NEI
Aesthetics													<i>S</i>
Agriculture						<i>S</i>		<i>S</i>	<i>S</i>				
Primary Body Contact Recreation										<i>S</i>			
Public & Private Water Supply					NEI		NEI			NEI			
Fish Consumption					<i>S</i>								

S = Fully Supporting
NS = Not Supporting
NEI = Not Enough Information

Notes

Red River at Terral



Sample Record	Times Visited	Station ID
December 1998 - Current	170	311100010190-001AT

Stream Data	County	Jefferson	Request Data By Email
	Location	South of the Town of Terral on State Highway 81	
	Latitude/Longitude	33.8786094, -97.93457247	
	Planning Watershed	Lower Washita (8-digit HUC - 11130201)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	162	20.4	21.2	3.1/38.4	13.5/27.4
Turbidity (NTU)	163		308	98	4/>1000	43/455	50% of values>OWQS	
pH (units)	161		8.22	8.25	6.73/9.11	8.01/8.47		
Dissolved Oxygen (mg/L)	162		10.45	10.24	3.42/20.13	7.96/12.72		
Hardness (mg/L)	163		817	808	168/2075	555/1055		
Minerals	Total Dissolved Solids (mg/L)	103	2910	2810	442/6840	1700/3804		
	Specific Conductivity (uS/cm)	161	4961	4941	157/14458	3482/6512		
	Chloride (mg/L)	164	1237	1200	151/4200	797/1600		
	Sulfate (mg/L)	164	616	606	96/2110	373/768		
Nutrients	Total Phosphorus (mg/L)	173	0.462	0.297	0.021/4.210	0.197/0.471		
	Total Nitrogen (mg/L)	166	2.45	1.91	<0.10/23.10	1.42/2.80		
	Nitrate/Nitrite (mg/L)	165	0.48	0.23	<0.05/3.77	<0.05/0.74		
	Chlorophyll A (mg/m ³)	82	74.1	59.4	<0.1/368.0	34.9/94.0	TSI=72.8	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	35	658	62	<10/3654	<10/700	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	35	124	33	<10/1106	<10/155		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	
	Fish & Wildlife Propagation	NS	S	S	NS						U	U	S	
	Aesthetics													NEI
	Agriculture					S		S	S					
	Primary Body Contact Recreation									NS				
	Public & Private Water Supply				NEI		NEI			NEI				
	Fish Consumption				NS									

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes
 Fish Consumption not supporting for Lead
 Fish & Wildlife Propagation not supporting for Selenium
 U = Assessment yielded undetermined supporting status

Salt Fork Of The Red River at Elmer



Sample Record	Times Visited	Station ID
November 1998 - Current	210	311600020010-002AT

Stream Data	County	Jackson	Request Data By Email
	Location	West of the Town of Elmer near US 283	
	Latitude/Longitude	34.47893211, -99.38286717	
	Planning Watershed	Southwest (8-digit HUC -11120202)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	195	19.6	19.9	0.5/34.7	13.0/26.7
Turbidity (NTU)	199		92	24	3/>1000	12/53	12% of values>OWQS	
pH (units)	191		8.02	8.06	7.42/8.56	7.88/8.18		
Dissolved Oxygen (mg/L)	195		9.87	10.08	3.59/17.59	8.07/11.75		
Hardness (mg/L)	201		1557	1600	200/2513	1195/1976		
Minerals	Total Dissolved Solids (mg/L)	153	3041	3180	240/4860	2530/3750		
	Specific Conductivity (uS/cm)	196	3994	4013	356/7648	3274/4743		
	Chloride (mg/L)	211	626	580	19/2097	472/804	29% of values>OWQS	
	Sulfate (mg/L)	210	1294	1310	87/3485	985/1633	28% of values>OWQS	
Nutrients	Total Phosphorus (mg/L)	171	0.121	0.079	<0.005/0.840	0.038/0.145		
	Total Nitrogen (mg/L)	171	2.25	1.98	0.59/7.14	1.33/2.69		
	Nitrate/Nitrite (mg/L)	172	1.13	0.85	<0.05/5.93	0.22/1.55		
	Chlorophyll A (mg/m ³)	78	24.9	18.6	<0.1/83.5	9.7/39.5	TSI=62.1	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	24	3290	530	<10/51800	100/1414	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	24	560	57	<10/5172	23/611		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	NS						U	U	S
	Aesthetics												S
	Agriculture					NS		NS	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NS		S			S			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes Fish Consumption not supporting for Lead
 Fish & Wildlife Propagation and Private & Public Water Supply not supporting for Selenium
 U = Assessment yielded undetermined supporting status

Salt Fork Of The Red River at Mangum



Sample Record		Times Visited	Station ID
October 2000 – September 2007		54	311600020010-001AT
Stream Data	County	Greer	Request Data By Email
	Location	South of the Town of Mangum on State Highway 34	
	Latitude/Longitude	34.85764987, -99.50925729	
	Planning Watershed	Southwest (8-digit HUC -11120202)	

Parameters		Parameter (<i>Descriptions</i>)	Mean	Median	Range	Comments
		In-Situ	Water Temperature (C°)		18.6	18.9
Turbidity (NTU)			9	6	1/30	
pH (units)			7.93	7.96	6.60/8.56	
Dissolved Oxygen (ppm)			8.61	8.22	5.62/12.84	
Hardness (ppm)			1532	1501	660/2380	
Minerals	Total Dissolved Solids (ppm)		2216	2115	799/8895	
	Specific Conductivity (uS)		3584	3238	1369/21559	
	Chloride (ppm)		278	270	63/464	
	Sulfate (ppm)		1254	1300	471.0/1800	
Nutrients	Total Phosphorus (ppm)		0.028	0.016	0.007/0.154	
	Nitrate/Nitrite (ppm)		0.26	0.21	<0.05/0.97	
	Chlorophyll A (mg/m ³)		54.3	38.4	6.0/175.0	TSI=69.8
Bacteria	Fecal Coliform (cfu/100ml)(* -Geo. Mn.)		271.1*	310	<10/3400	
	Enterococcus (cfu/100ml)(* -Geo. Mn.)		240.7*	167	<10/11000	Mean>OWQS
	E. Coli (MPN/100ml)(* -Geo. Mean)		84.9*	74	<10/1785	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
		Fish & Wildlife Propagation	S	S	S	S							NS
Aesthetics													NEI
Agriculture						S		S	S				
Primary Body Contact Recreation										NS			
Public & Private Water Supply					NEI		NEI			NEI			
Fish Consumption					S								
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes											

Sager Creek at West Siloam Springs



Sample Record	Times Visited	Station ID
November 1998 – December 2012	163	121700060080-001AT

Stream Data	County	Delaware	Request Data By Email
	Location	West of the Town of West Siloam Springs off US Highway 412	
	Latitude/Longitude	36.20164298, -94.60538182	
	Planning Watershed	Lower Arkansas (8-digit HUC - 11110103)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	110	17.4	12.5	2.8/36.3	19.4/26.1
Turbidity (NTU)	111		3	1	3/857	64/118		
pH (units)	109		7.71	7.47	6.71/8.21	7.70/7.91		
Dissolved Oxygen (mg/L)	110		9.11	8.05	3.87/40.07	7.84/10.16	21% of values<OWQS and 13% of values<alt OWQS	
Hardness (mg/L)	109		132	120	21/268	139/175		
Minerals	Total Dissolved Solids (mg/L)	21	244	186	95/921	263/310		
	Specific Conductivity (uS/cm)	110	424	358	100/937	380/478		
	Chloride (mg/L)	100	36	23	<10/199	36/66		
	Sulfate (mg/L)	100	25	16	13/134	31/41		
Nutrients	Total Phosphorus (mg/L)	114	1.117	0.644	<0.005/1.017	0.092/0.150		
	Total Nitrogen (mg/L)	113	7.46	4.88	<0.10/2.19	0.74/1.06		
	Nitrate/Nitrite (mg/L)	114	7.02	4.39	<0.05/0.88	0.08/0.19		
	Chlorophyll A (mg/m ³)	54	1.6	0.4	<0.1/22.3	9.1/14.0	TSI=35.5	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	56	512	34	<10/8000	94/732	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	56	218	<10	<10/2755	52/196		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	NS	S						S	S	S
	Aesthetics												NEI
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Salt Fork of the Arkansas River at Ingersoll



Sample Record		Times Visited	Station ID
December 1998 - Current		165	621010010160-001AT
Stream Data	County	Alfalfa	Request Data By Email
	Location	Northeast of the Town of Ingersoll on State Highway 58	
	Latitude/Longitude	36.82018011, -98.35994081	
	Planning Watershed	Upper Arkansas (8-digit HUC - 11060002)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)		158	18.0	18.1	-0.8/36.7
Turbidity (NTU)			160	84	30	1/>1000	10/77	11% of values>OWQS
pH (units)			156	7.94	7.96	7.15/8.42	7.83/8.11	
Dissolved Oxygen (mg/L)			158	9.87	9.37	4.49/26.91	8.20/11.50	
Hardness (mg/L)			157	893	884	432/1660	801/978	
Minerals	Total Dissolved Solids (mg/L)		89	1591	1560	520/3170	1490/1670	
	Specific Conductivity (uS/cm)		158	2047	2060	905/3688	1870/2232	
	Chloride (mg/L)		156	181	174	29/591	133/215	
	Sulfate (mg/L)		157	731	733	150/1130	665/800	
Nutrients	Total Phosphorus (mg/L)		158	0.094	0.052	<0.005/1.710	0.027/0.096	
	Total Nitrogen (mg/L)		158	1.12	0.86	<0.10/18.71	0.71/1.11	
	Nitrate/Nitrite (mg/L)		158	0.37	0.36	<0.05/1.05	0.22/0.49	
	Chlorophyll A (mg/m ³)		65	6.9	4.4	<0.1/53.4	2.4/7.0	TSI=49.5
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)		34	5045	1918	74/46080	532/5000	Mean>OWQS
	E. Coli (cfu/100ml)(* -Geo. Mn.)		34	1434	355	20/19863	121/1553	Mean>OWQS

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
		Fish & Wildlife Propagation	NS	S	S	S						U	S
Aesthetics													S
Agriculture						S		S	S				
Primary Body Contact Recreation										NS			
Public & Private Water Supply					S		S			S			
Fish Consumption					S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

Salt Fork of the Arkansas River at Tonkawa



Sample Record	Times Visited	Station ID
October 2000 - Current	149	621000010010-001AT

Stream Data	County	Kay	Request Data By Email
	Location	South of the Town of Tonkawa on US 77	
	Latitude/Longitude	36.67070374, -97.30951657	
	Planning Watershed	Upper Arkansas (8-digit HUC -11060004)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	146	17.9	18.8	-0.9/36.6	9.3/26.6
Turbidity (NTU)	144		113	44	6/>1000	20/139	35% of values>OWQS	
pH (units)	146		8.18	8.20	7.00/9.45	8.00/8.40		
Dissolved Oxygen (mg/L)	146		10.58	10.26	3.77/24.35	8.21/12.93		
Hardness (mg/L)	145		471	471	126/930	379/550		
Minerals	Total Dissolved Solids (mg/L)	76	3462	2785	544/9680	1925/4370		
	Specific Conductivity (uS/cm)	146	5183	4261	563/15758	2848/6433		
	Chloride (mg/L)	141	1549	1221	223/5320	751/1905		
	Sulfate (mg/L)	141	283	267	49/637	214/357		
Nutrients	Total Phosphorus (mg/L)	141	0.239	0.221	0.060/0.975	0.149/0.303		
	Total Nitrogen (mg/L)	141	1.58	1.49	0.36/3.42	1.19/1.84		
	Nitrate/Nitrite (mg/L)	141	0.15	<0.05	<0.05/1.12	<0.05/0.13		
	Chlorophyll A (mg/m ³)	78	65.4	50.8	2.7/262.0	29.7/84.8	TSI=71.6	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	30	6728	984	20/161000	275/1925	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	31	434	41	<10/9804	<10/122		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	S						S	U	S
	Aesthetics												NEI
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish Consumption not supporting for Lead
 U = Assessment yielded undetermined supporting status

Sandy Creek at Eldorado



Sample Record	Times Visited	Station ID
November 1998 - Current	171	311600010040-001AT

Stream Data	County	Jackson	Request Data By Email
	Location	Southwest of the Town of Eldorado on State Highway 6	
	Latitude/Longitude	34.46433562, -99.66255838	
	Planning Watershed	Southwest (8-digit HUC -11130101)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	160	18.8	19.6	2.7/33.2	13.5/24.9
Turbidity (NTU)	168		72	42	4/>1000	23/73	37% of values>OWQS	
pH (units)	157		7.75	7.73	7.09/8.44	7.56/7.91		
Dissolved Oxygen (mg/L)	160		10.92	11.00	2.59/24.06	7.47/14.01		
Hardness (mg/L)	165		2393	2528	115/3974	2210/2813		
Minerals	Total Dissolved Solids (mg/L)	104	6180	6540	283/7320	6222/6820	94% of values>OWQS	
	Specific Conductivity (uS/cm)	160	8640	9267	282/11175	8672/9643		
	Chloride (mg/L)	167	2039	2120	13/3750	1920/2280	100% of Values>OWQS	
	Sulfate (mg/L)	168	1905	2010	45/3680	1720/2188	97% of Values>OWQS	
Nutrients	Total Phosphorus (mg/L)	167	0.124	0.080	<0.005/1.356	0.043/0.152		
	Total Nitrogen (mg/L)	167	3.68	3.68	0.54/8.38	3.12/4.25		
	Nitrate/Nitrite (mg/L)	168	2.31	2.30	0.11/4.86	1.47/3.11		
	Chlorophyll A (mg/m ³)	49	38.4	19.6	1.3/179.0	7.0/55.6	TSI=66.4	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	25	2737	900	<10/37300	132/2420	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	25	365	131	<10/3448	42/418		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	
	Fish & Wildlife Propagation	NS	S	S	NS						NS	U	S	
	Aesthetics													S
	Agriculture					NS		NS	NS					
	Primary Body Contact Recreation									NS				
	Public & Private Water Supply				NS		S			S				
	Fish Consumption				S									

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes Public & Private Water Supply not supporting for Selenium
 Fish & Wildlife Propagation not supporting for Selenium
 U = Assessment yielded undetermined supporting status

Skeleton Creek at Lovell



Sample Record	Times Visited	Station ID
December 1998 - Current	169	620910030010-001AT

Stream Data	County	Logan	Request Data By Email
	Location	East of the Town of Lovell on State Highway 74	
	Latitude/Longitude	36.06098714, -97.58584155	
	Planning Watershed	Upper Arkansas (8-digit HUC -11050002)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	166	16.8	16.8	-1.4/33.9	7.8/25.0
Turbidity (NTU)	168		142	77	4/>1000	42/145	36% of values>OWQS	
pH (units)	166		8.23	8.21	7.51/9.08	8.02/8.43		
Dissolved Oxygen (mg/L)	165		10.28	9.86	2.69/25.20	7.52/12.49		
Hardness (mg/L)	166		376	402	100/690	283/472		
Minerals	Total Dissolved Solids (mg/L)	99	927	956	264/1950	758/1140		
	Specific Conductivity (uS/cm)	166	1610	1623	338/2904	1233/2011		
	Chloride (mg/L)	166	235	238	52/458	184/284		
	Sulfate (mg/L)	166	236	203	64/3200	155/245		
Nutrients	Total Phosphorus (mg/L)	167	0.529	0.466	0.078/1.630	0.331/0.705		
	Total Nitrogen (mg/L)	166	4.68	4.01	0.67/15.51	2.92/5.95		
	Nitrate/Nitrite (mg/L)	167	3.28	2.57	<0.05/14.55	1.39/4.57		
	Chlorophyll A (mg/m ³)	45	57.4	36.8	1.9/233.0	18.7/78.3	TSI=70.3	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	37	3017	510	20/41000	72/2420	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	37	686	110	<10/9804	26/474		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	NS						S	S	S
	Aesthetics												NEI
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Selenium

Spring Creek at Murphy



Sample Record	Times Visited	Station ID
November 1998 - Current	183	121600010290-001AT

Stream Data	County	Mayes	Request Data By Email
	Location	South of the Town of Locust Grove off State Highway 82	
	Latitude/Longitude	36.13104241, -95.19015604	
	Planning Watershed	Grand (8-digit HUC -11070209)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	150	16.9	16.8	7.2/26.8	12.1/21.7
Turbidity (NTU)	150		2	1	0/15	½		
pH (units)	149		7.50	7.49	6.80/8.59	7.26/7.75		
Dissolved Oxygen (mg/L)	150		9.12	9.00	2.68/13.82	7.79/10.51		
Hardness (mg/L)	150		87	80	<10/728	72/90		
Minerals	Total Dissolved Solids (mg/L)	39	113	104	<10/498	89/114		
	Specific Conductivity (uS/cm)	149	171	164	32/425	146/194		
	Chloride (mg/L)	123	9	10	<10/96	<10/<10		
	Sulfate (mg/L)	122	9	10	<10/40	<10/<10		
Nutrients	Total Phosphorus (mg/L)	157	0.020	0.013	<0.005/0.392	0.008/0.018		
	Total Nitrogen (mg/L)	159	0.65	0.57	<0.10/3.03	0.40/0.78		
	Nitrate/Nitrite (mg/L)	159	0.51	0.45	<0.05/1.50	0.30/0.64		
	Chlorophyll A (mg/m ³)	95	1.0	0.4	<0.1/29.5	0.2/0.7	TSI=30.2	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	56	156	17	<10/3000	<10/106	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	56	97	<10	<10/4352	<10/28		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Spring River at Quapaw



Sample Record	Times Visited	Station ID
December 1998 - Current	183	121600070010-001AT

Stream Data	County	Ottawa	Request Data By Email
	Location	East of the Town of Quapaw near State Highway 137	
	Latitude/Longitude	36.93462871, -94.74614371	
	Planning Watershed	Grand (8-digit HUC -11070207)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	162	17.4	17.4	1.0/32.1	10.3/24.4
Turbidity (NTU)	162		34	14	1/581	9/24	19% of values > OWQS	
pH (units)	161		7.88	7.90	6.64/8.92	7.69/8.06		
Dissolved Oxygen (mg/L)	162		9.00	8.93	0.16/14.90	7.21/10.67		
Hardness (mg/L)	161		159	165	17/258	142/182		
Minerals	Total Dissolved Solids (mg/L)	38	213	218	101/331	167/245		
	Specific Conductivity (uS/cm)	162	364	369	111/827	311/419		
	Chloride (mg/L)	118	14	12	<10/36	<10/17		
	Sulfate (mg/L)	117	36	34	18/80	28/42		
Nutrients	Total Phosphorus (mg/L)	172	0.196	0.171	0.048/0.640	0.132/0.246		
	Total Nitrogen (mg/L)	172	2.35	2.32	0.49/4.78	1.81/2.84		
	Nitrate/Nitrite (mg/L)	173	1.66	1.71	<0.05/3.37	1.11/2.15		
	Chlorophyll A (mg/m ³)	91	8.8	7.8	1.4/37.4	3.6/13.0	TSI=52.0	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	43	1622	20	<10/33000	<10/180		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	43	288	20	<10/3448	<10/121		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	S						S	U	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

Verdigris River at Inola



Sample Record	Times Visited	Station ID
November 2000 - Current	103	121500020260-001AT

Stream Data	County	Rogers	Request Data By Email
	Location	West of Inola on US 412	
	Latitude/Longitude	36.16167837, -95.49637137	
	Planning Watershed	Middle Arkansas (8-digit HUC -11070105)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	100	18.0	19.4	3.3/32.4	10.7/25.5
Turbidity (NTU)	98		63	39	3/891	21/62	25% of values > OWQS	
pH (units)	100		7.84	7.82	7.14/8.71	7.62/8.03		
Dissolved Oxygen (mg/L)	99		9.09	8.26	3.71/18.73	7.14/10.86		
Hardness (mg/L)	98		144	141	<10/301	124/161		
Minerals	Total Dissolved Solids (mg/L)	20	205	212	151/276	170/233		
	Specific Conductivity (uS/cm)	99	352	326	158/626	292/403		
	Chloride (mg/L)	65	25	18	<10/145	11/34		
	Sulfate (mg/L)	65	46	43	20/129	35/53		
Nutrients	Total Phosphorus (mg/L)	99	0.225	0.173	0.069/1.039	0.118/0.271		
	Total Nitrogen (mg/L)	99	1.77	1.42	0.61/5.98	1.07/2.25		
	Nitrate/Nitrite (mg/L)	99	0.91	0.54	0.13/4.67	0.40/1.33		
	Chlorophyll A (mg/m ³)	65	10.5	6.8	1.2/76.7	3.9/13.4	TSI=53.6	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	25	5498	33	<10/81000	<10/230	Mean > OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	25	514	15	<10/7270	<10/31		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	S						U	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

Verdigris River at Keetonville



Sample Record	Times Visited	Station ID
November 1998 – December 2012	131	121500030010-001AT

Stream Data	County	Rogers	View Site Data
	Location	East of the Town of Keetonville on State Highway 20	
	Latitude/Longitude	36.30724953, -95.69794268	
	Planning Watershed	Middle Arkansas (8-digit HUC -11070105)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	113	17.5	10.3	-0.8/36.7	18.1/26.9
Turbidity (NTU)	115		68	20	1/>1000	30/77		
pH (units)	114		7.84	7.70	7.15/8.42	7.96/8.11		
Dissolved Oxygen (mg/L)	113		8.79	6.70	4.49/26.91	9.37/11.50		
Hardness (mg/L)	114		156	127	432/1660	884/978		
Minerals	Total Dissolved Solids (mg/L)	35	226	169	520/3170	1560/1670		
	Specific Conductivity (uS/cm)	111	372	285	905/3688	2060/2232		
	Chloride (mg/L)	102	22	<10	29/591	174/215		
	Sulfate (mg/L)	102	46.33	33.38	150/1130	733/800		
Nutrients	Total Phosphorus (mg/L)	116	0.110	0.058	<0.005/1.710	0.052/0.096		
	Total Nitrogen (mg/L)	115	0.88	0.63	<0.10/18.71	0.86/1.11		
	Nitrate/Nitrite (mg/L)	116	0.27	0.07	<0.05/1.05	0.36/0.49		
	Chlorophyll A (mg/m ³)	53	8.5	3.0	<0.1/53.4	4.4/7.0	TSI=51.6	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	21	5094	15	74/46080	1918/5000	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	21	592	<10	20/19863	355/1553		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	
	Fish & Wildlife Propagation	S	S	S	S						S	NEI	S	
	Aesthetics													S
	Agriculture					S		S	S					
	Primary Body Contact Recreation									NS				
	Public & Private Water Supply						NEI				NEI			
	Fish Consumption				S									

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Verdigris River at Lenepah



Sample Record	Times Visited	Station ID
December 1998 - Current	178	121510020010-001AT

Stream Data	County	Nowata	Request Data By Email
	Location	East of the Town of Lenepah on State Highway 10	
	Latitude/Longitude	36.85121639, -95.58531345	
	Planning Watershed	Middle Arkansas (8-digit HUC -11070103)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	161	17.2	18.3	0.7/33.7	10.2/25.3
Turbidity (NTU)	168		133	39	4/>1000	17/112	65% of values>OWQS	
pH (units)	162		7.85	7.85	4.98/8.78	7.66/8.09		
Dissolved Oxygen (mg/L)	161		9.07	8.37	3.83/18.49	6.94/10.99		
Hardness (mg/L)	164		165	165	<10/300	133/194		
Minerals	Total Dissolved Solids (mg/L)	49	213	211	92/346	169/264		
	Specific Conductivity (uS/cm)	160	367	373	<10/764	264/463		
	Chloride (mg/L)	115	20	14	<10/123	<10/22		
	Sulfate (mg/L)	114	37	33	12/97	27/42		
Nutrients	Total Phosphorus (mg/L)	172	0.165	0.099	0.019/1.220	0.060/0.181		
	Total Nitrogen (mg/L)	171	1.28	1.03	0.05/4.55	0.82/1.49		
	Nitrate/Nitrite (mg/L)	172	0.39	0.35	<0.05/1.95	0.13/0.53		
	Chlorophyll A (mg/m ³)	110	16.9	10.9	<0.1/173.0	4.8/22.3	TSI=58.3	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	35	11155	70	<10/321000	20/1553	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	35	799	63	<10/6294	30/1236		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	NS						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish & Wildlife Propagation not supporting for Lead

Verdigris River at Wagoner



Sample Record	Times Visited	Station ID
September 1999 - Current	113	121500010200-001AT

Stream Data	County	Wagoner	Request Data By Email
	Location	West of the Town of Wagoner on US 51	
	Latitude/Longitude	35.95547322, -95.49477619	
	Planning Watershed	Middle Arkansas (8-digit HUC -11070105)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	109	18.8	20.4	1.8/32.8	11.3/26.9
Turbidity (NTU)	111		52	32	6/383	19/64	15% of values > OWQS	
pH (units)	108		7.82	7.82	6.98/8.84	7.57/8.03		
Dissolved Oxygen (mg/L)	108		8.96	8.16	4.57/16.44	7.27/10.51		
Hardness (mg/L)	108		143	140	56/740	119/158		
Minerals	Total Dissolved Solids (mg/L)	59	192	189	108/304	168/206		
	Specific Conductivity (uS/cm)	108	330	325	200/616	276/360		
	Chloride (mg/L)	108	19	14	<10/143	<10/22		
	Sulfate (mg/L)	107	44	41	18/132	33/50		
Nutrients	Total Phosphorus (mg/L)	108	0.153	0.127	0.052/0.570	0.095/0.179		
	Total Nitrogen (mg/L)	108	1.37	1.14	0.48/4.40	0.86/1.56		
	Nitrate/Nitrite (mg/L)	109	0.66	0.48	<0.05/3.02	0.26/0.78		
	Chlorophyll A (mg/m ³)	62	9.0	6.5	<0.1/39.5	3.8/13.4	TSI=52.2	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	28	4699	44	<10/82000	13/1100	Mean > OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	28	258	41	<10/3130	<10/103		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	S						U	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

Walnut Bayou at Burneyville



Sample Record	Times Visited	Station ID
January 2013 - Current	31	311100010250-001AT

Stream Data	County	Love	Request Data By Email
	Location	North of the Town of Burneyville on State Highway 96	
	Latitude/Longitude	33.916559, -97.282427	
	Planning Watershed	Lower Washita (8-digit HUC - 11130201)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	31	19.2	20.5	4.6/33.7	13.4/29.2
Turbidity (NTU)	31		36	10	3/189	7/33	22% of values > OWQS	
pH (units)	31		7.94	7.98	7.38/8.36	7.74/8.07		
Dissolved Oxygen (mg/L)	31		9.69	9.37	6.24/12.54	8.27/11.57		
Hardness (mg/L)	31		256	242	132/685	188/290		
Minerals	Total Dissolved Solids (mg/L)	31	412	353	229/1610	315/423		
	Specific Conductivity (uS/cm)	31	643	675	372/924	541/745		
	Chloride (mg/L)	31	63	62	23/124	46/75		
	Sulfate (mg/L)	31	52	55	27/77	42/59		
Nutrients	Total Phosphorus (mg/L)	31	0.091	0.076	<0.005/0.224	0.033/0.193		
	Total Nitrogen (mg/L)	31	0.79	0.61	0.32/1.90	0.53/0.91		
	Nitrate/Nitrite (mg/L)	31	0.06	<0.05	<0.05/0.21	<0.05/<0.05		
	Chlorophyll A (mg/m ³)	31	6.0	2.8	0.6/29.6	1.4/6.2	TSI=48.1	
Bacteria	Enterococcus (cfu/100ml)(* - Geo. Mn.)	8	735	231	60/2420	75/1901		
	E. Coli (cfu/100ml)(* - Geo. Mn.)	8	239	68	<10/816	<10/645		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	S						S	S	S
	Aesthetics												NEI
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NEI			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Walnut Creek at Purcell



Sample Record	Times Visited	Station ID
February 2015 - Current	25	520610030010-001AT

Stream Data	County	McClain	Request Data By Email
	Location	South of the Town of Purcell on US Highway 77	
	Latitude/Longitude	34.99932, -97.366951	
	Planning Watershed	Central (8-digit HUC - 11090202)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	17	21.4	21.3	9.0/34.4	15.5/26.2
Turbidity (NTU)	17		108	10	2/996	4/84		
pH (units)	17		8.17	8.22	7.58/8.42	8.12/8.30		
Dissolved Oxygen (mg/L)	17		9.18	8.83	6.46/12.55	7.83/10.58		
Hardness (mg/L)	17		357	388	182/442	306/406		
Minerals	Total Dissolved Solids (mg/L)	17	427	458	290/521	401/469		
	Specific Conductivity (uS/cm)	17	748	831	367/906	584/871		
	Chloride (mg/L)	19	32	33	<10/46	28/35		
	Sulfate (mg/L)	19	50	51	30/64	46/55		
Nutrients	Total Phosphorus (mg/L)	19	0.092	0.038	0.017/0.484	0.026/0.142		
	Total Nitrogen (mg/L)	19	0.69	0.39	0.27/2.56	0.34/0.79		
	Nitrate/Nitrite (mg/L)	19	0.12	<0.05	<0.05/0.38	<0.05/0.21		
	Chlorophyll A (mg/m ³)	19	3.2	2.3	1.1/6.5	1.6/5.0	TSI=42.0	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	5	1214	816	121/2420	206/2420		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	5	719	118	22/2420	23/1715		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NEI	NEI	NEI	NEI						NEI	NEI	NEI
	Aesthetics												NEI
	Agriculture					NEI		NEI	NEI				
	Primary Body Contact Recreation									NEI			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				NEI								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Washita River at Alex



Sample Record	Times Visited	Station ID
January 2003 – Current	99	310810020010-001AT

Stream Data	County	Grady	Request Data By Email
	Location	North of the Town of Alex on Highway 19C	
	Latitude/Longitude	34.9261546, -97.77397966	
	Planning Watershed	Lower Washita (8-digit HUC -11130303)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ		Water Temperature (°C)	96	18.0	18.4	0.3/35.1
	Turbidity (NTU)		96	232	69	6/>1000	25/237	37% of values>OWQS
	pH (units)		95	8.05	8.02	7.22/9.26	7.86/8.19	
	Dissolved Oxygen (mg/L)		96	9.60	8.96	4.59/15.76	7.68/11.34	
	Hardness (mg/L)		96	759	760	180/1668	539/968	
Minerals		Total Dissolved Solids (mg/L)	53	1134	1160	340/1670	826/1450	
		Specific Conductivity (uS/cm)	95	1570	1667	353/2690	1196/1941	
		Chloride (mg/L)	97	83	85	11/202	53/116	
		Sulfate (mg/L)	97	603	614	151/1260	460/765	
Nutrients		Total Phosphorus (mg/L)	97	0.341	0.184	0.010/2.060	0.104/0.365	
		Total Nitrogen (mg/L)	97	1.79	1.39	0.68/5.77	1.13/2.12	
		Nitrate/Nitrite (mg/L)	97	0.36	0.17	<0.05/1.80	<0.05/0.63	
		Chlorophyll A (mg/m ³)	76	45.5	34.0	3.8/169.0	21.2/63.1	TSI=68.1
Bacteria		Enterococcus (cfu/100ml)(* -Geo. Mn.)	28	1318	148	<10/11000	49/2420	Mean>OWQS
		E. Coli (cfu/100ml)(* -Geo. Mn.)	28	681	58	<10/9208	<10/899	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation		NS	S	S	S						U	S
Aesthetics													NEI
Agriculture						S		S	S				
Primary Body Contact Recreation										NS			
Public & Private Water Supply					NEI		NEI			NEI			
Fish Consumption					NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish Consumption not supporting for Lead
 U = Assessment yielded undetermined supporting status

Washita River at Anadarko



Sample Record	Times Visited	Station ID
February 1999 - Current	186	310830010010-001AT

Stream Data	County	Caddo	Request Data By Email
	Location	North of the Town of Anadarko on US 281	
	Latitude/Longitude	35.08448153, -98.24330303	
	Planning Watershed	Lower Washita (8-digit HUC -11130302)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	158	18.4	19.8	-0.1/35.0	10.0/26.2
Turbidity (NTU)	160		165	36	4/>1000	16/125	20% of values>OWQS	
pH (units)	156		8.10	8.11	7.01/8.80	7.94/8.25		
Dissolved Oxygen (mg/L)	158		10.00	9.78	1.33/19.66	8.06/12.02		
Hardness (mg/L)	157		845	880	185/1580	596/1058		
Minerals	Total Dissolved Solids (mg/L)	97	1301	1440	150/2260	945/1683		
	Specific Conductivity (uS/cm)	157	1720	1879	144/2925	1395/2098		
	Chloride (mg/L)	165	85	85	<10/233	52/113		
	Sulfate (mg/L)	164	690	747	56/1280	485/859		
Nutrients	Total Phosphorus (mg/L)	165	0.274	0.173	0.026/3.297	0.090/0.274		
	Total Nitrogen (mg/L)	164	1.62	1.37	0.52/7.10	0.92/1.94		
	Nitrate/Nitrite (mg/L)	165	0.46	0.27	<0.05/2.28	<0.05/0.76		
	Chlorophyll A (mg/m ³)	98	40.2	27.9	3.5/597.0	13.6/43.7	TSI=66.8	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	36	1400	435	<10/12997	100/2315	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	36	514	113	<10/2723	<10/979		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	S						NS	U	NS
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

Washita River at Cordell



Sample Record	Times Visited	Station ID
November 1998 - Current	191	310830030010-001AT

Stream Data	County	Washita	Request Data By Email
	Location	East of the Town of Cordell on State Highway 152	
	Latitude/Longitude	35.29115498, -98.83671818	
	Planning Watershed	West Central (8-digit HUC -11130302)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	169	17.4	18.2	-1.0/35.3	9.0/24.7
Turbidity (NTU)	167		88	22	3/>1000	8/80		
pH (units)	166		8.01	8.00	5.93/9.02	7.82/8.18		
Dissolved Oxygen (mg/L)	167		10.00	9.63	1.95/22.10	7.80/12.03		
Hardness (mg/L)	169		1320	1334	415/2835	1124/1530		
Minerals	Total Dissolved Solids (mg/L)	109	2116	2170	450/4150	1885/2422		
	Specific Conductivity (uS/cm)	169	2471	2481	348/5634	2139/2802		
	Chloride (mg/L)	168	119	91	<10/862	62/148		
	Sulfate (mg/L)	168	1140	1165	223/1880	1000/1308	29% of values>OWQS	
Nutrients	Total Phosphorus (mg/L)	169	0.283	0.202	0.046/3.090	0.136/0.351		
	Total Nitrogen (mg/L)	169	2.01	1.90	<0.10/8.68	1.48/2.42		
	Nitrate/Nitrite (mg/L)	169	0.92	0.86	<0.05/3.09	0.42/1.35		
	Chlorophyll A (mg/m ³)	59	24.3	14.0	1.8/114.0	5.8/22.4	TSI=61.9	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	48	1836	313	<10/24192	99/1450	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	48	1613	74	<10/24192	20/264	Mean>OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						NS	S	NEI
	Aesthetics												NEI
	Agriculture					NS		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Washita River at Durwood



Sample Record	Times Visited	Station ID
November 1998 - Current	139	310800020010-001AT

Stream Data	County	Carter	Request Data By Email
	Location	Northwest of the Town of Durwood on US 177	
	Latitude/Longitude	34.23354963, -96.97638301	
	Planning Watershed	Lower Washita (8-digit HUC -11130303)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	132	19.9	20.5	3.8/33.7	13.7/27.1
Turbidity (NTU)	129		281	64	4/>1000	36/529	45% of values>OWQS	
pH (units)	131		8.09	8.07	7.10/8.86	7.91/8.23		
Dissolved Oxygen (mg/L)	132		9.33	8.95	3.45/19.04	7.42/11.00		
Hardness (mg/L)	131		538	535	187/925	407/670		
Minerals	Total Dissolved Solids (mg/L)	67	867	896	258/1604	660/1130		
	Specific Conductivity (uS/cm)	131	1210	1273	355/2037	936/1552		
	Chloride (mg/L)	133	78	77	<10/163	48/112		
	Sulfate (mg/L)	134	378	379	26/787	270/510		
Nutrients	Total Phosphorus (mg/L)	134	0.351	0.162	0.008/4.183	0.104/0.392		
	Total Nitrogen (mg/L)	133	1.59	1.14	0.33/7.42	0.78/2.12		
	Nitrate/Nitrite (mg/L)	134	0.25	0.06	<0.05/1.04	<0.05/0.41		
	Chlorophyll A (mg/m ³)	69	29.6	19.6	<0.1/177.0	10.9/34.2	TSI=63.8	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	33	401	148	<10/1900	34/550	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	33	365	20	<10/8164	<10/220		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	
	Fish & Wildlife Propagation	NS	S	S	S						U	NEI	S	
	Aesthetics													NEI
	Agriculture					S		S	S					
	Primary Body Contact Recreation									NS				
	Public & Private Water Supply				S		S			S				
	Fish Consumption				NS									

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish Consumption not supporting for Lead
 U = Assessment yielded undetermined supporting status

Washita River at McClure



Sample Record	Times Visited	Station ID
November 1998 - Current	113	310840010010-003RS

Stream Data	County	Custer	Request Data By Email
	Location	North of the Town of McClure off of State Highway 33	
	Latitude/Longitude	35.656289, -99.306207	
	Planning Watershed	West Central (8-digit HUC -11130301)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	87	16.9	19.1	-0.8/33.3	9.1/23.6
Turbidity (NTU)	90		80	21	1/>1000	8/63	22% of values>OWQS	
pH (units)	87		8.11	8.10	7.46/9.11	7.96/8.23		
Dissolved Oxygen (mg/L)	86		9.70	9.72	3.77/19.46	8.00/11.18		
Hardness (mg/L)	88		1150	1145	250/2255	936/1376		
Minerals	Total Dissolved Solids (mg/L)	76	1630	1655	340/2760	1360/2083		
	Specific Conductivity (uS/cm)	87	1941	1984	561/2903	1684/2351		
	Chloride (mg/L)	91	58	62	<10/409	38/72		
	Sulfate (mg/L)	91	901	894	170/1760	636/1160		
Nutrients	Total Phosphorus (mg/L)	90	0.154	0.066	<0.005/1.710	0.040/0.196		
	Total Nitrogen (mg/L)	93	1.53	1.18	<0.10/5.49	0.89/1.71		
	Nitrate/Nitrite (mg/L)	91	0.50	0.26	<0.05/4.96	0.07/0.42		
	Chlorophyll A (mg/m ³)	55	22.3	8.6	1.7/318.0	3.6/14.5	TSI=61.0	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	29	1342	1043	63/5172	165/2420	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	29	1693	387	<10/24192	86/2420	Mean>OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	S						NS	U	NS
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				S		S			S			
	Fish Consumption				NS								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Fish Consumption not supporting for Lead
 U = Assessment yielded undetermined supporting status

Washita River at Pauls Valley



Sample Record	Times Visited	Station ID
December 1998 - Current	169	310810010010-001AT

Stream Data	County	Garvin	Request Data By Email
	Location	East of the Town of Pauls Valley on county road E1570	
	Latitude/Longitude	34.73848401, -97. 16538162	
	Planning Watershed	Lower Washita (8-digit HUC -11130303)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	164	18.7	19.5	0.1/34.2	11.3/27.1
Turbidity (NTU)	166		274	69	3/>1000	41/415	46% of values>OWQS	
pH (units)	165		8.08	8.10	7.01/8.74	7.96/8.22		
Dissolved Oxygen (mg/L)	164		9.49	9.24	3.83/22.13	7.57/10.95		
Hardness (mg/L)	164		633	638	171/1210	472/810		
Minerals	Total Dissolved Solids (mg/L)	103	1020	1030	250/2577	736/1320		
	Specific Conductivity (uS/cm)	166	1407	1480	304/2237	1080/1785		
	Chloride (mg/L)	171	78	74	<10/238	46/103		
	Sulfate (mg/L)	168	503	527	94/1240	362/655		
Nutrients	Total Phosphorus (mg/L)	178	0.370	0.170	0.027/3.160	0.101/0.406		
	Total Nitrogen (mg/L)	169	1.72	1.33	<0.10/7.20	0.93/2.16		
	Nitrate/Nitrite (mg/L)	170	0.29	<0.05	<0.05/1.71	<0.05/0.52		
	Chlorophyll A (mg/m ³)	85	49.9	27.9	1.6/783.0	17.8/51.9	TSI=69.0	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	32	1056	173	<10/10462	46/1965	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	32	339	31	<10/3873	<10/180		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	NS	S	S	S						U	NEI	S
	Aesthetics												NEI
	Agriculture					S		S	S				
	Primary Body Contact Recreation									NS			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

U = Assessment yielded undetermined supporting status

West Cache Creek at Taylor



Sample Record	Times Visited	Station ID
November 1998 - Current	153	311310020010-001AT

Stream Data	County	Cotton	Request Data By Email
	Location	North of the Town of Taylor on State Highway 5B	
	Latitude/Longitude	34.2095473, -98.33061891	
	Planning Watershed	Beaver-Cache (8-digit HUC - 11130203)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	132	19.4	21.5	2.6/35.2	10.5/27.0
Turbidity (NTU)	136		140	44	4/>1000	17/102	19% of values>OWQS	
pH (units)	131		8.03	8.03	6.51/8.78	7.82/8.22		
Dissolved Oxygen (mg/L)	132		8.59	8.50	3.71/15.30	6.68/10.29		
Hardness (mg/L)	136		261	209	78/790	142/331		
Minerals	Total Dissolved Solids (mg/L)	82	578	422	144/2260	253/758	40% of values>OWQS	
	Specific Conductivity (uS/cm)	131	1082	859	137/4559	513/1372		
	Chloride (mg/L)	140	204	134	<10/1010	61/277	12% of values>OWQS	
	Sulfate (mg/L)	140	88	65	18/300	44/115		
Nutrients	Total Phosphorus (mg/L)	140	0.211	0.140	0.031/1.204	0.098/0.270		
	Total Nitrogen (mg/L)	140	1.17	0.81	0.22/6.33	0.60/1.43		
	Nitrate/Nitrite (mg/L)	140	0.30	<0.05	<0.05/2.91	<0.05/0.45		
	Chlorophyll A (mg/m ³)	45	17.9	14.0	1.1/55.1	5.4/25.3	TSI=58.9	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	30	993	350	<10/10000	190/821	Mean>OWQS	
	E. Coli (cfu/100ml)(* -Geo. Mn.)	30	414	145	<10/2420	60/488	Mean>OWQS	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment	
	Fish & Wildlife Propagation	NS	S	S	S						S	NEI	S	
	Aesthetics													NEI
	Agriculture					S		NS	NS					
	Primary Body Contact Recreation									NS				
	Public & Private Water Supply				NEI		NEI			NEI				
	Fish Consumption				S									

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes

Wolf Creek at Ft. Supply



Sample Record	Times Visited	Station ID
November 1998 - Current	158	720500030010-001AT

Stream Data	County	Woodward	Request Data By Email
	Location	East of the Town of Ft. Supply off US 270	
	Latitude/Longitude	36.44954552, -99.58872133	
	Planning Watershed	Panhandle (8-digit HUC -11100203)	

Parameters		Parameter (<i>Descriptions</i>)	n	Mean	Median	Min./Max	p25/p75	Comments
		In-Situ	Water Temperature (°C)	124	17.9	19.0	-0.1/34.0	11.1/25.0
Turbidity (NTU)	125		21	13	2/81	8/29		
pH (units)	121		8.16	8.16	7.33/9.00	8.03/8.30		
Dissolved Oxygen (mg/L)	123		10.10	10.15	0.12/26.42	8.59/11.33		
Hardness (mg/L)	125		323	312	163/615	280/351		
Minerals	Total Dissolved Solids (mg/L)	64	616	612	424/920	579/642		
	Specific Conductivity (uS/cm)	123	976	969	464/1835	903/1043		
	Chloride (mg/L)	125	134	129	89/189	122/145		
	Sulfate (mg/L)	125	107	104	48/175	91/121		
Nutrients	Total Phosphorus (mg/L)	133	0.055	0.040	<0.005/0.228	0.025/0.072		
	Total Nitrogen (mg/L)	127	1.20	1.19	<0.10/2.83	0.89/1.49		
	Nitrate/Nitrite (mg/L)	126	0.70	0.69	<0.05/2.20	0.40/0.93		
	Chlorophyll A (mg/m ³)	20	6.8	3.9	0.9/21.4	2.5/10.5	TSI=49.4	
Bacteria	Enterococcus (cfu/100ml)(* -Geo. Mn.)	23	1156	100	<10/10000	20/900		
	E. Coli (cfu/100ml)(* -Geo. Mn.)	23	185	74	<10/2282	30/85		

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	Sulfates	Nitrates	Chlorides	Total Dissolved Solids	Bacteria	Bio. Fish	Bio. BMI	Sediment
	Fish & Wildlife Propagation	S	S	S	S						S	S	S
	Aesthetics												S
	Agriculture					S		S	S				
	Primary Body Contact Recreation									S			
	Public & Private Water Supply				NEI		NEI			NEI			
	Fish Consumption				S								

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

Notes