2008 Integrated Report to Congress on Water Quality in Kentucky

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2008 Integrated Report to Congress
on Water Quality in Kentucky

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Chapter 1. Introduction

The 2008 Integrated Report (IR) was prepared by the Kentucky Division of Water (KDOW), Department for Environmental Protection (DEP), for submittal to the U.S. Environmental Protection Agency (EPA) to fulfill requirements of sections 303(d), 305(b) and 314 of the Federal Water Pollution Control (or Clean Water) Act of 1972 (P.L. 92-500), as subsequently amended. Section 305(b) of the Act requires states to assess and report current water quality conditions to EPA every two years.

In 2006, an Integrated Report (IR) was released for the first time by the commonwealth. It was produced in two volumes, and this procedure is followed for the 2008 IR. Volume 1 reports the 305(b) assessment methods, processes, overview of the commonwealth's water resources, monitoring programs, statistical findings, geo-referencing of monitored and assessed results and a comprehensive table listing all waters or segments assessed, with assessment results, causes (pollutants or pollution) and probable sources. Volume 2 of the IR lists those waters and segments that were not fully supporting one or more designated uses (DU), based on monitored data, and require a TMDL (total maximum daily load) calculation for those pollutants causing the impairments. By integrating the two reports, users of the information in the first IR (2006) found this comprehensive reporting medium of greater utility by having all relevant information together in two volumes. The use of assessment categories to file assessed stream segments and lakes or reservoirs provides an accurate and convenient method for the commonwealth to track the miles (or acres) of assessed and non-assessed uses, while also tracking those impaired waters from the time of 303(d)-listing through the TMDL process and post-implementation.

KDOW utilized the assessment database (ADB) to store use assessments and aid in producing the various tables and compilation of statistics that were presented in this report. The current report was based on assessment data stored in ADB version 2.2; this database had been modified to function per the particular needs of KDOW. As with previous 305(b) reports, ADB provides assessment data of stream segments and geographic data (GNIS [geographic names information system] and latitude - longitude) used to georeference those assessments. This proved to be an efficient mechanism to

produce the reach-indexed maps. In addition to the ADB, the TMDL section developed a database based on ADB architecture to track 303(d)-listed water bodies and segments. This database was updated to reflect the TMDL development, approval, and delistings of those waters or segments.

The KDOW initiated a five-year rotating watershed management approach in 1997. Results from the first basin management unit (BMU), the Kentucky River, were reported in the 2000 305(b) report. This IR represents monitoring efforts from the second cycle of the BMU monitoring strategy; thus the 4-Rivers - Upper Cumberland River and Green - Tradewater rivers BMUs were of primary focus in this 2008 IR; these BMUs were monitored beginning in April 2005 – March 2006 and April 2006 – March 2007, respectively. This report also incorporated assessment data and results from monitoring that occurred during this reporting cycle outside of the BMUs of focus; thus providing a statewide update of monitoring results. Data collected by the Ohio River Valley Water Sanitation Commission (ORSANCO) were used to make assessments for the mainstem of the Ohio River (ORSANCO, 2008).

The 303(d)-list contains 6083 miles and approximately 2097 pollutant-waterbody combinations. This monitoring cycle was years three and four of phase two of the second five-year BMU cycle. As such, much of the monitoring activities focused on TMDL-associated watersheds to identify the extent, concentrations and track sources of pollutants of concern necessary for TMDL calculation. To maintain overall awareness of aquatic life support conditions, and compare results from the first cycle phase (2000 and 2001) of these two BMUs, KDOW conducted a second probabilistic designed study of wadeable streams (1st – 5th Strahler order).

There are reasons that some impaired waters were not 303(d)-listed. For example, evaluated data from discharge monitoring reports (DMRs) from permitted facilities were not on the 303(d) list because permit compliance should result in protection of the designated uses; also, these DMR data were not directly monitored instream, but at the outfall.

Chapter 2. Background

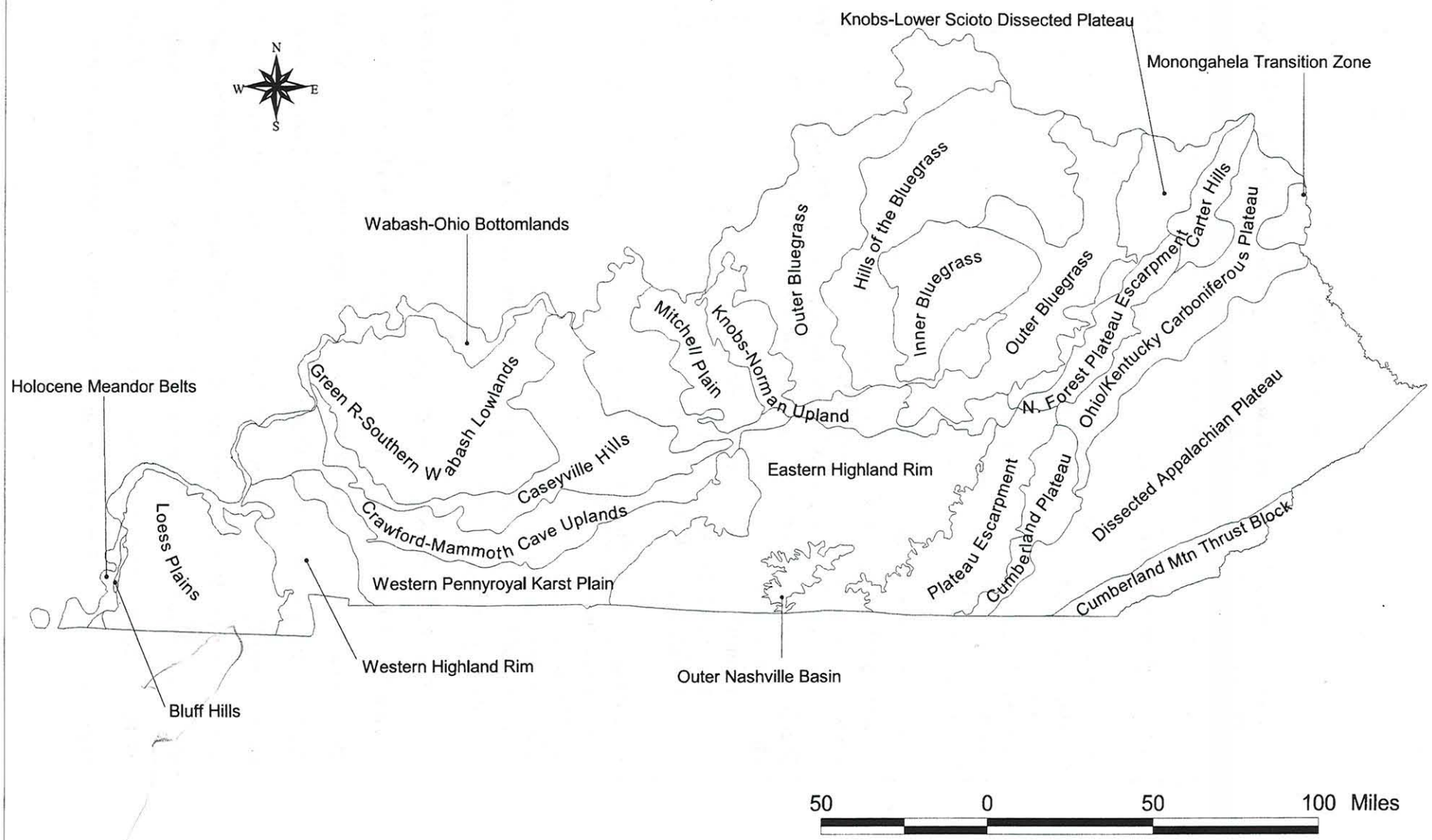
2.1 Atlas of Kentucky's Water Resources and Profile of Select Demographic and Physiographic Statistics Atlas of Kentucky

State population (2006 estimate)[1]	4,206,074
Surface area (square miles)	40,409
Number of counties	120
Number of major physiographic regions	5
Number of level III ecoregions	7
Number of level IV ecoregions	25
Number of major basins	12
Number of USGS 8-digit HUCs[2]	42
Number of stream miles (1:24,000 NHD[3])	90,961
Number of stream-formed border miles (primarily Ohio River)	861
Number of publicly owned lake and reservoir surface acres (estimated)	229,500
Three largest reservoirs by surface acres	
Kentucky Lake (Kentucky portion)	57,103
Cumberland Lake	47,623
Barkley Lake (Kentucky portion)	42,780
Wetland acres (approximation)[4]	324,000

[1]US Census Bureau
[2]Hydrolgic unit code
[3]National hydrography dataset
[4]*The state of Kentucky's environment: 1994 status report.* The Kentucky Environmental Commission, 1995.

The physiography of Kentucky provides a landscape of 25-Level IV Ecoregions (Figure 2.1-1) that are diverse geologically and physically and provide a variety of microclimates that are important in forming and supporting diverse plant and aquatic communities. This rich aquatic biodiversity is a part of the southeastern aquatic environment that provided long, stable conditions, a result of non-glaciations. While the state has many miles of streams and rivers, natural lakes are uncommon and are found along the Lower Ohio and Mississippi rivers in the Jackson Purchase (region west of Tennessee River [Reservoir]); most of these lakes were formed by oxbows or shallow depression basins. Many of the major rivers in the commonwealth have been dammed

Figure 2.1-1. Level IV Ecoregions of Kentucky.



for flood control and secondarily for generation of electricity. This change has altered the natural aquatic communities of these systems while providing drinking water supplies, tourism and recreational opportunities. While only a portion of wetlands exist from what was estimated to have occurred historically (1.5+ million acres), loss of wetland acreage has slowed with federal and state regulations and disincentives for altering wetlands in place (The Kentucky Environmental Commission, 1995). By river basin, the Green River has the largest proportion of remaining wetland acres, approximately 88,000. As indicated by the number of caves in Kentucky, there are significant karst areas in the state, but the largest karst landscape exists in the Green River basin, which includes Mammoth Cave. These areas of karst present special concerns for water quality protection because groundwater flows may be unknown and difficult to monitor due to limited access.

2.2 Programmatic

In order to better characterize the waters of the state and better coordinate resources toward addressing problems, Kentucky adopted a Watershed Management Framework in 1997. The purpose of this management framework is to use programs, people, information, and funds as efficiently as possible to protect, maintain, and restore water and land resources. This approach provides a framework within which participating individuals and institutions can link and support one another's efforts in watershed management.

Coordinated, multi-agency watershed monitoring was initiated in 1998 in the Kentucky River basin, and monitoring for the first five-year watershed cycle was completed in 2002. The first cycle of monitoring focused on obtaining, for the first time, a snapshot of conditions of Kentucky's waters, especially wadeable streams. Most local, state, and federal agencies in Kentucky with monitoring responsibilities cooperated in the watershed monitoring effort. Some agencies simply provided their data and carried out monitoring as usual; others revised their sampling programs and sampling methods for better fit with the watershed monitoring plan. In early 2005, Kentucky Department for Environmental Protection and Tennessee Department of Environment and Conservation

formally agreed to begin cooperating and sharing combined resources to work toward making tangible improvement to shared watersheds. For example, several watersheds (Clarks River, Red River and upper Cumberland River) were identified to have interstate concerns and probable shared sources of pollutants or pollution affecting stream health. Monitoring was implemented in 2005 to identify sources and spatial and temporal concentrations of nitrates in the Red River watershed in the lower Cumberland River basin. In addition to scoping and fixing pollutant-source issues, an effort was agreed upon whereby each state identified shared high quality watersheds then, where feasible, establishing them as such in their respective regulations. Additionally, where one state had identified high quality waters crossing state boundary, but the other had not, that state assessed their portion of the stream to determine if it qualified for elevation to high quality designation. An example where an Outstanding National Resource Water (ONRW) had been designated is Reelfoot Lake. Tennessee and Kentucky share this resource (approximately 20 percent in Kentucky), but it has been designated as an ONRW only by Tennessee. Kentucky included this designation (ONRW) for its portion of the resource putting in the 2007-8 triennial review submission.

According to the adopted framework, the state is divided into five BMUs (Figure 2.2-1) for the purposes of focusing management activities spatially and temporally. Activities within each of the five units follow a five-year cycle so efforts can better be focused within a basin. Phases in the cycle include: 1) collecting information about water resources in the basin; 2) identifying priority watersheds; 3) listing the watersheds in the basin in order of priority and deciding which problems can be solved with existing funds; 4) determining how best to solve the problems in the watershed; 5) developing an action plan; and 6) carrying out the strategies in the plan (Figure 2-3). Public participation is also encouraged throughout the process, allowing citizens and organizations to stay informed and have an active role in management of resources. Monitoring and assessment take place in the second and third years, respectively, of the watershed cycle.

Figure 2.2-1. Kentucky Basin Management Units and monitoring years of the second five-year cycle.

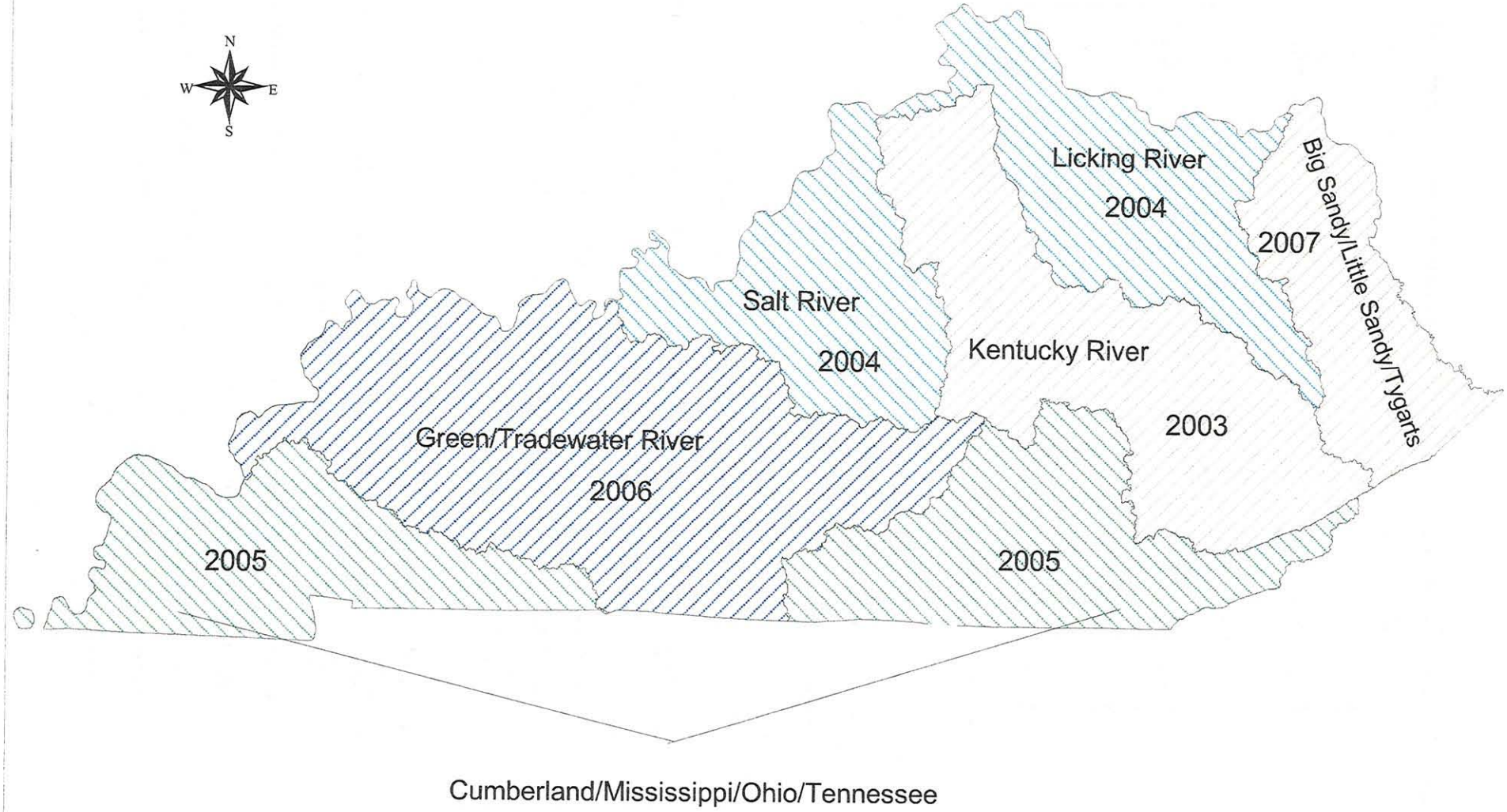
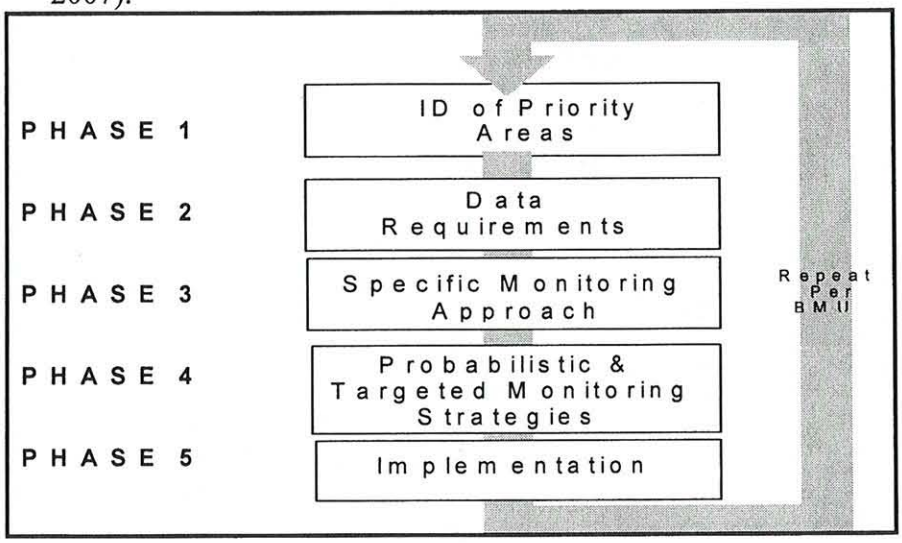


Figure 2.2-2. Phases of the second cycle of the basin management unit approach (2003 – 2007).



Each basin was phased into the second cycle of the Watershed Framework schedule as listed below. Monitoring activities began in April and ended in March the following year.

- April 2003 – March 2004 – Kentucky River basin
- April 2004 – March 2005 – Salt and Licking river basins
- April 2005 – March 2006 – upper Cumberland River and 4-Rivers (lower Cumberland, Ohio, Mississippi and Tennessee rivers) basins
- April 2006 – March 2007 – Green and Tradewater rivers basins
- April 2007 – March 2008 – Big Sandy River, Little Sandy River , and Tygarts Creek basins

Benefits of this approach include:

- Planning and determination of monitoring strategy developed on a watershed approach for TMDL-specific monitoring
- Increased coordination of resource management activities focused on identified priorities in each basin
- Greater ability to stretch limited dollars for implementation activities through partnering and coordination of efforts; spin-off benefit of the initial BMU cycle approach

- Collaboration of state and federal agencies effectively increasing manpower, expertise and environmental disciplines
- More data as monitoring efforts are coordinated – approximately a four-fold increase in assessment data has been realized since the inception of the watershed approach in 1998.
- Better data as agencies standardize methods and procedures.
- Greater opportunities for citizen involvement.

The 2004 305(b) Report represented the completion of the first monitoring and assessment cycle of the five BMU management framework. Whereas the purpose of monitoring in the first watershed cycle was to obtain baseline data statewide, monitoring in the second cycle (begun in 2003) focused on impaired watersheds. However, ambient monitoring continued at long-term stream and lake stations, watersheds not sampled in the first watershed cycle, probabilistic biosurveys, and on small streams to refine reference reach metrics. Much of the work was done sequentially to make best use of monitoring personnel and to collect data during the target index period according to stream sizes. The following is the cycle beginning with planning phase-year with the monitoring and assessment in years two and three, respectively.

- 2002 - 2004 – Kentucky River Basin
- 2003 - 2005 – Salt – Licking basin
- 2004 - 2006 – Upper Cumberland River and 4-Rivers (Lower Cumberland, Mississippi, Ohio, and Tennessee rivers) basin
- 2005 - 2007 – Green – Tradewater rivers basin
- 2006 - 2008 – Big Sandy – Little Sandy rivers and Tygarts Creek basin

2.2.1 Overview of Programs Related to Monitoring and Assessment

The Division of Water has the primary responsibility of monitoring and assessing the commonwealth's water resources, and overseeing the permitting of facilities and industries that discharge point sources to waters through Kentucky Pollutant Discharge Elimination System (KPDES).

To monitor the designated uses of Kentucky's waters and monitor the effectiveness of various control programs, such as KPDES, KDOW has a number of monitoring programs that monitor biological and water quality indicators for 305(b) and 303(d) purposes. Table 2.2.1-1 highlights the monitoring programs and the indicators associated with each. A more comprehensive discussion of surface water quality monitoring programs follows in Chapter 3.

Table 2.2.1-1. Matrix of water resources and monitoring programs

	[a]Long-term Surface Water	[a]Rotating Surface Water	[b,c]Targeted Biological Monitoring	[b]Reference Reach	[d]Probabilistic Biosurvey	[e]Lake Monitoring	[a]Ground-water & Springs Monitor-ing
Streams (1st-5th order)		X	X	X	X		
Large Rivers	X	X	X				
Lakes/Reservoirs						X	
Groundwater							X
Swamps/Wetlands	--	--	--	--	--	--	--

[a]Indicators: physicochemical and pathogen indicator
[b]Indicators: macroinvertebrates, fish, algae, physicochemical, habitat
[c]Includes some 6th order streams where wadeable and associated with ambient water quality stations
[d]Indicators: macroinvertebrates, physicochemical, habitat
[e]Indicators: physicochemical, fish kills, macrophytes, algae

For those waters requiring a Total Maximum Daily Load (TMDL) pollutant reduction, the division's TMDL program manages this process by coordinating the monitoring and development of those discharge or load reductions necessary to bring the impaired Designated Use (DU) into full support. The primary source of pollutants affecting the commonwealth's waters emanate from nonpoint sources (NPS). The fact that sedimentation became the leading pollutant in the 2004 305(b) cycle was a direct reflection on NPS pollution being the more significant source of degradation to the state's waters. This trend follows nationwide.

The primary objectives of the ambient monitoring program were to establish current conditions and long-term records and trends of water quality, biological, fish tissue, and sediment conditions in the state's major watersheds (Kentucky Division of Water, 1986). Sub-objectives were identified as determining: 1) the quality of water in Outstanding Resource Waters; 2) background or baseline water quality conditions in

streams not impacted by discharges; 3) the extent to which point and nonpoint sources affect trophic status of lakes and reservoirs; and 4) the impact of acid precipitation on water quality of lakes and reservoirs. There were 70 primary water quality stations throughout the commonwealth that are monitored on a monthly frequency at each station respective of the current monitoring cycle. These stations were located at mid-and lower watershed reaches of 8-digit HUC basins. Location of stations also occurred near the inflow and outflow of major reservoirs, for example Green River Reservoir in the Green River basin. Those stations outside the BMU monitoring phase were monitored bimonthly. Implemented with the rotating basin approach, were the rotating watershed stations. These stations were monitored for the same suite of water quality parameters as the primary stations, but were monitored in smaller watersheds for a variety of reasons. Those primary considerations for candidate watershed monitoring were: 1) TMDL development; 2) characterize water quality in reference watersheds; 3) monitor waters that receive permitted discharge (for instance a municipal wastewater treatment plant) to characterize upstream and downstream water quality; and 4) characterize water quality conditions in certain landscapes, such as agricultural or mining areas.

KDOW's targeted biological monitoring program has a long history associated in determining the health and long-term water quality of stream and river resources. In addition to biological community survey, water quality variables were included in the monitoring program. Biological monitoring was implemented in the 1970s with significant refinement of the program as more research led to the development of biological multimetric indices (for more information go to Methods for Assessing Biological Integrity Of Surface Waters in Kentucky). A portion of KDOW's biological monitoring emphasis was shifted to development of those metrics and associated criteria through a reference reach approach. This was implemented in the 1990s based on an ecoregional approach to determine reference conditions in each basin. These waters do not represent pristine conditions rather they represent the best examples of high water quality and biological integrity in each of the four identified bioregions. Through this effort a network of streams, or stream reaches, have been identified throughout the commonwealth. These stream reaches were listed in water quality standards, 401 KAR 5:030 and can be accessed at: http://www.lrc.ky.gov/kar/401/005/030.htm. One to three

biological communities (macroinvertebrates, fishes, or algae) were sampled per biosurvey. When one community only was used to make an aquatic life use support determination, either macroinvertebrates or fishes were monitored, typically the former.

A random biosurvey effort was initiated with the help of EPA's technical support group in Corvallis, Oregon. Kentucky's approach was to sample macroinvertebrates once at a minimum of 50 sites in each BMU. In 2004 nutrients and additional chemical water quality variables were added to the suite of indicators used by this program. These additional data were added to aid in the development of numeric nutrient criteria, gain a more comprehensive knowledge of what ambient water quality variable values were in each BMU, and increase the confidence of each aquatic life use assessment. This program allows KDOW to report on aquatic life use support in wadeable streams for the entire state over the five year watershed cycle. Section 305(b) use support determinations made through the probabilistic biosurvy program were determined only on segments directly monitored, whereas extrapolated use support over a given BMU was made for informational, resource conditions, and planning purposes only. This program was important both on the statewide level as well as national level, as indicated by EPA's nationwide probabilistic monitoring efforts in wadeable streams, lakes and reservoirs and a planned large rivers survey in mid-2008.

Lake and reservoir monitoring program began in the early 1980s as part of the Clean Lakes monitoring initiative. Currently KDOW monitors all significant publicly-owned lakes and reservoirs in the state (approximately 105 waterbodies). Many of the Corps of Engineers (COE) reservoirs and Kentucky Lake, a Tennessee Valley Authority (TVA) project, were typically monitored by those respective agencies per our protocol and collaborative efforts. The working relationship between KDOW and COE, Louisville and Nashville Districts, has proved to be a good cooperative effort that is beneficial to all parties by increasing available resources (e.g. COE may provide the field work and KDOW, in coordination with Division of Environmental Services (DES) provides chemical analyses).

Physicochemical and chlorophyll *a* were analyzed to determine current Trophic State status of these waterbodies. Monitoring occurs three times during the growing season (spring, summer and fall) to capture the seasonal variability that occurs and

reflects the trophic state of the resource. By monitoring these resources every five years, trends in water quality can be measured. This monitoring program collects data sufficient to determine aquatic life, secondary contact recreation and drinking water supply DUs. The majority of these resources are posted by Kentucky Fish and Wildlife Department as "no swimming" water bodies, precluding applicability of primary contact recreation monitoring.

2.3 Costs Associated with Water Pollution

Putting a dollar figure on the costs associated with water pollution is difficult to determine. However, the costs associated with KPDES-permitted facilities, which are primarily comprised of industrial facilities, package wastewater treatment plants, and municipal wastewater treatment plants, are in the tens of millions of dollars considering construction, operating, maintenance, compliance, and administrative costs. Figures obtained from KDOW, Facilities Construction Branch, give some insight into the costs associated with treating household, business and industrial wastes.

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However, these costs are only a portion of the total costs to society. The increased cost of technology needed to treat potable water in areas of heavy siltation/sedimentation alone may result in loss of source water supply because the cost of treatment is prohibitive, while areas of organic industrial contamination may require expensive continuous carbon-based treatment. Medical and loss of productivity costs associated with various diseases that may result from waterborne pollution are not accurately known. For example, consumption of fish flesh that has elevated levels of

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Some of the larger monitoring and assessment issues are presented below. However, the overriding issue is personnel to conduct additional monitoring tasks and use these generated data in a meaningful way throughout the various water management programs.

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States are now faced with the situation where they are asked to maintain a robust ambient monitoring program to characterize and track conditions of the state's waters (305b reporting) and at the same time collect data for TMDL development in hundreds of impaired waterbodies and segments, eventually tracking the success of implementation. Faced with these tasks, the most critical resource need at this time is additional support for the TMDL program, as much of the monitoring resources have been shifted from ambient programs into the TMDL monitoring-specific needs. Like most states, Kentucky's schedule requires hundreds (approximately 1700) of TMDLs be developed over the next decade. More staff, lab resources, and especially contractual monies, must be obtained to accomplish this workload without continued loss of ambient monitoring resources, either through additional EPA or state funding. KDOW must establish arrangements to fund TMDL planning, data collection, lab analysis, and development with internal, contractual, and interested third-party resources, including volunteer organizations.

Industrial and point source monitoring is important to the commonwealth's assessment of the effectiveness of permitted facilities adhering to their permit limits, and if the permitted limits are appropriate and protective for the receiving waters. The primary target of this monitoring program would be to gage the biological integrity in these waters. This monitoring need may only be fulfilled with significant monetary and personnel resources; however, neither of these resources will likely become sufficient within this decade. Contracting the work through a federal grant would be one way to address this need.

This permit biomonitoring program would help fulfill sections 301, 302, 303, 305, 306, 307, 308, 314 and 402 of the CWA. Milestones would be incremental, with resources initially directed to pre-permit biomonitoring. As resources increase biomonitoring would be implemented prior to application renewals. The earliest implementation would be 2014 and, given the resources needed to undertake this objective, it is currently not viewed as realistic in this timeframe.

Chapter 1. Introduction

The 2008 Integrated Report (IR) was prepared by the Kentucky Division of Water (KDOW), Department for Environmental Protection (DEP), for submittal to the U.S. Environmental Protection Agency (EPA) to fulfill requirements of sections 303(d), 305(b) and 314 of the Federal Water Pollution Control (or Clean Water) Act of 1972 (P.L. 92-500), as subsequently amended. Section 305(b) of the Act requires states to assess and report current water quality conditions to EPA every two years.

In 2006, an Integrated Report (IR) was released for the first time by the commonwealth. It was produced in two volumes, and this procedure is followed for the 2008 IR. Volume 1 reports the 305(b) assessment methods, processes, overview of the commonwealth's water resources, monitoring programs, statistical findings, geo-referencing of monitored and assessed results and a comprehensive table listing all waters or segments assessed, with assessment results, causes (pollutants or pollution) and probable sources. Volume 2 of the IR lists those waters and segments that were not fully supporting one or more designated uses (DU), based on monitored data, and require a TMDL (total maximum daily load) calculation for those pollutants causing the impairments. By integrating the two reports, users of the information in the first IR (2006) found this comprehensive reporting medium of greater utility by having all relevant information together in two volumes. The use of assessment categories to file assessed stream segments and lakes or reservoirs provides an accurate and convenient method for the commonwealth to track the miles (or acres) of assessed and non-assessed uses, while also tracking those impaired waters from the time of 303(d)-listing through the TMDL process and post-implementation.

KDOW utilized the assessment database (ADB) to store use assessments and aid in producing the various tables and compilation of statistics that were presented in this report. The current report was based on assessment data stored in ADB version 2.2; this database had been modified to function per the particular needs of KDOW. As with previous 305(b) reports, ADB provides assessment data of stream segments and geographic data (GNIS [geographic names information system] and latitude - longitude) used to georeference those assessments. This proved to be an efficient mechanism to

produce the reach-indexed maps. In addition to the ADB, the TMDL section developed a database based on ADB architecture to track 303(d)-listed water bodies and segments. This database was updated to reflect the TMDL development, approval, and delistings of those waters or segments.

The KDOW initiated a five-year rotating watershed management approach in 1997. Results from the first basin management unit (BMU), the Kentucky River, were reported in the 2000 305(b) report. This IR represents monitoring efforts from the second cycle of the BMU monitoring strategy; thus the 4-Rivers - Upper Cumberland River and Green - Tradewater rivers BMUs were of primary focus in this 2008 IR; these BMUs were monitored beginning in April 2005 – March 2006 and April 2006 – March 2007, respectively. This report also incorporated assessment data and results from monitoring that occurred during this reporting cycle outside of the BMUs of focus; thus providing a statewide update of monitoring results. Data collected by the Ohio River Valley Water Sanitation Commission (ORSANCO) were used to make assessments for the mainstem of the Ohio River (ORSANCO, 2008).

The 303(d)-list contains 6083 miles and approximately 2097 pollutant-waterbody combinations. This monitoring cycle was years three and four of phase two of the second five-year BMU cycle. As such, much of the monitoring activities focused on TMDL-associated watersheds to identify the extent, concentrations and track sources of pollutants of concern necessary for TMDL calculation. To maintain overall awareness of aquatic life support conditions, and compare results from the first cycle phase (2000 and 2001) of these two BMUs, KDOW conducted a second probabilistic designed study of wadeable streams (1st – 5th Strahler order).

There are reasons that some impaired waters were not 303(d)-listed. For example, evaluated data from discharge monitoring reports (DMRs) from permitted facilities were not on the 303(d) list because permit compliance should result in protection of the designated uses; also, these DMR data were not directly monitored instream, but at the outfall.

Chapter 2. Background

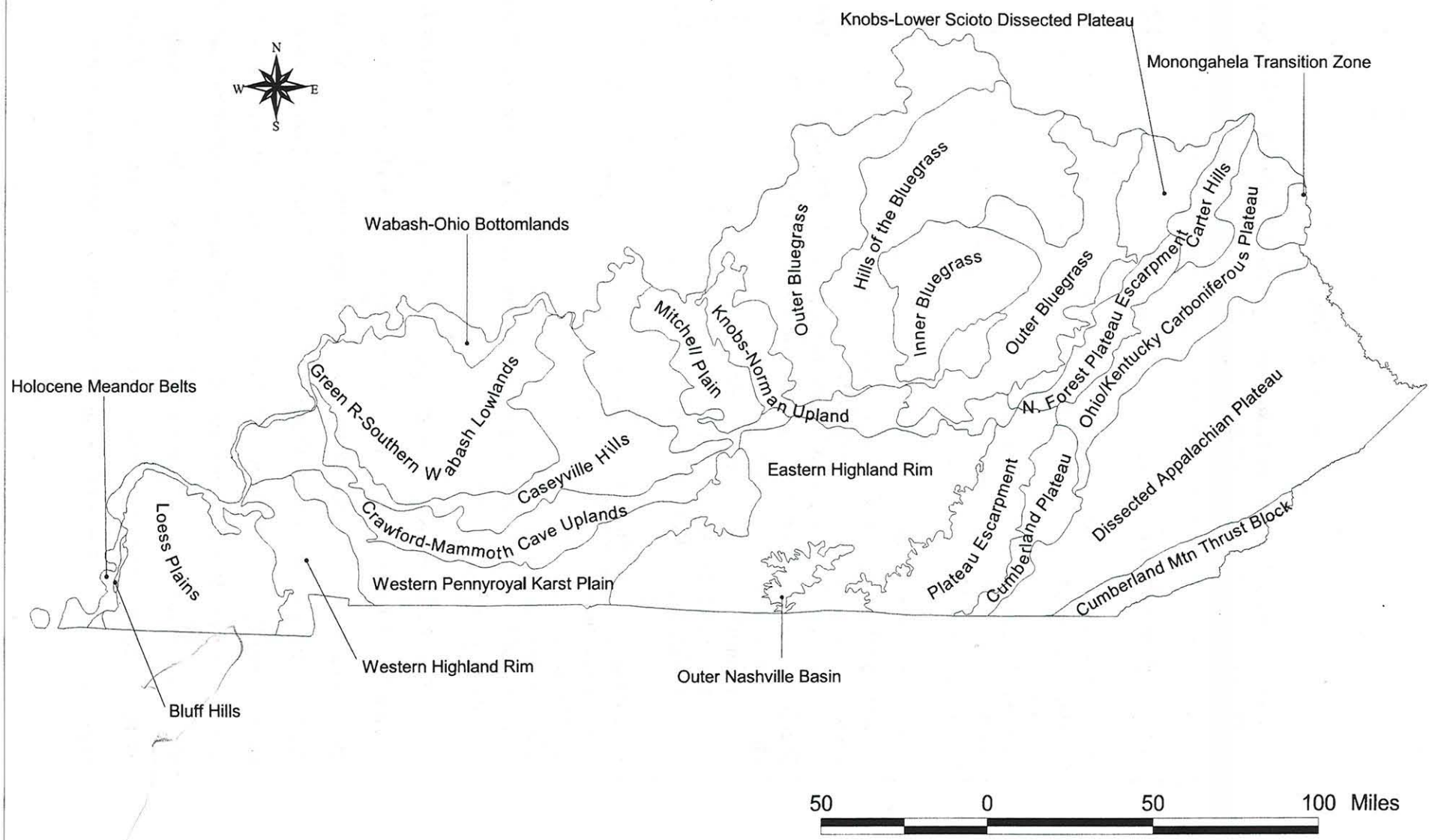
2.1 Atlas of Kentucky's Water Resources and Profile of Select Demographic and Physiographic Statistics Atlas of Kentucky

State population (2006 estimate)[1]	4,206,074
Surface area (square miles)	40,409
Number of counties	120
Number of major physiographic regions	5
Number of level III ecoregions	7
Number of level IV ecoregions	25
Number of major basins	12
Number of USGS 8-digit HUCs[2]	42
Number of stream miles (1:24,000 NHD[3])	90,961
Number of stream-formed border miles (primarily Ohio River)	861
Number of publicly owned lake and reservoir surface acres (estimated)	229,500
Three largest reservoirs by surface acres	
Kentucky Lake (Kentucky portion)	57,103
Cumberland Lake	47,623
Barkley Lake (Kentucky portion)	42,780
Wetland acres (approximation)[4]	324,000

[1]US Census Bureau
[2]Hydrolgic unit code
[3]National hydrography dataset
[4]*The state of Kentucky's environment: 1994 status report.* The Kentucky Environmental Commission, 1995.

The physiography of Kentucky provides a landscape of 25-Level IV Ecoregions (Figure 2.1-1) that are diverse geologically and physically and provide a variety of microclimates that are important in forming and supporting diverse plant and aquatic communities. This rich aquatic biodiversity is a part of the southeastern aquatic environment that provided long, stable conditions, a result of non-glaciations. While the state has many miles of streams and rivers, natural lakes are uncommon and are found along the Lower Ohio and Mississippi rivers in the Jackson Purchase (region west of Tennessee River [Reservoir]); most of these lakes were formed by oxbows or shallow depression basins. Many of the major rivers in the commonwealth have been dammed

Figure 2.1-1. Level IV Ecoregions of Kentucky.



for flood control and secondarily for generation of electricity. This change has altered the natural aquatic communities of these systems while providing drinking water supplies, tourism and recreational opportunities. While only a portion of wetlands exist from what was estimated to have occurred historically (1.5+ million acres), loss of wetland acreage has slowed with federal and state regulations and disincentives for altering wetlands in place (The Kentucky Environmental Commission, 1995). By river basin, the Green River has the largest proportion of remaining wetland acres, approximately 88,000. As indicated by the number of caves in Kentucky, there are significant karst areas in the state, but the largest karst landscape exists in the Green River basin, which includes Mammoth Cave. These areas of karst present special concerns for water quality protection because groundwater flows may be unknown and difficult to monitor due to limited access.

2.2 Programmatic

In order to better characterize the waters of the state and better coordinate resources toward addressing problems, Kentucky adopted a Watershed Management Framework in 1997. The purpose of this management framework is to use programs, people, information, and funds as efficiently as possible to protect, maintain, and restore water and land resources. This approach provides a framework within which participating individuals and institutions can link and support one another's efforts in watershed management.

Coordinated, multi-agency watershed monitoring was initiated in 1998 in the Kentucky River basin, and monitoring for the first five-year watershed cycle was completed in 2002. The first cycle of monitoring focused on obtaining, for the first time, a snapshot of conditions of Kentucky's waters, especially wadeable streams. Most local, state, and federal agencies in Kentucky with monitoring responsibilities cooperated in the watershed monitoring effort. Some agencies simply provided their data and carried out monitoring as usual; others revised their sampling programs and sampling methods for better fit with the watershed monitoring plan. In early 2005, Kentucky Department for Environmental Protection and Tennessee Department of Environment and Conservation

formally agreed to begin cooperating and sharing combined resources to work toward making tangible improvement to shared watersheds. For example, several watersheds (Clarks River, Red River and upper Cumberland River) were identified to have interstate concerns and probable shared sources of pollutants or pollution affecting stream health. Monitoring was implemented in 2005 to identify sources and spatial and temporal concentrations of nitrates in the Red River watershed in the lower Cumberland River basin. In addition to scoping and fixing pollutant-source issues, an effort was agreed upon whereby each state identified shared high quality watersheds then, where feasible, establishing them as such in their respective regulations. Additionally, where one state had identified high quality waters crossing state boundary, but the other had not, that state assessed their portion of the stream to determine if it qualified for elevation to high quality designation. An example where an Outstanding National Resource Water (ONRW) had been designated is Reelfoot Lake. Tennessee and Kentucky share this resource (approximately 20 percent in Kentucky), but it has been designated as an ONRW only by Tennessee. Kentucky included this designation (ONRW) for its portion of the resource putting in the 2007-8 triennial review submission.

According to the adopted framework, the state is divided into five BMUs (Figure 2.2-1) for the purposes of focusing management activities spatially and temporally. Activities within each of the five units follow a five-year cycle so efforts can better be focused within a basin. Phases in the cycle include: 1) collecting information about water resources in the basin; 2) identifying priority watersheds; 3) listing the watersheds in the basin in order of priority and deciding which problems can be solved with existing funds; 4) determining how best to solve the problems in the watershed; 5) developing an action plan; and 6) carrying out the strategies in the plan (Figure 2-3). Public participation is also encouraged throughout the process, allowing citizens and organizations to stay informed and have an active role in management of resources. Monitoring and assessment take place in the second and third years, respectively, of the watershed cycle.

Figure 2.2-1. Kentucky Basin Management Units and monitoring years of the second five-year cycle.

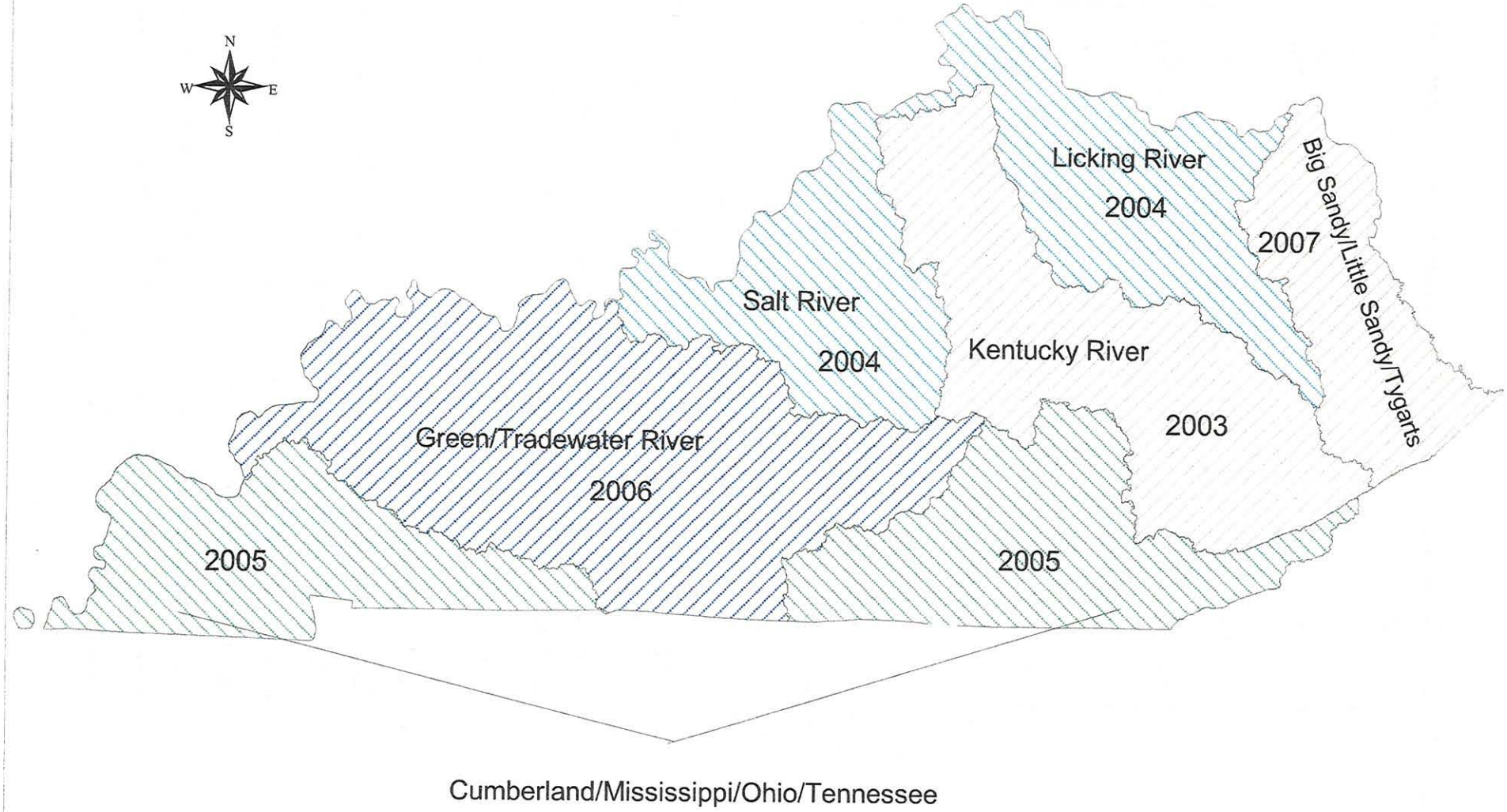
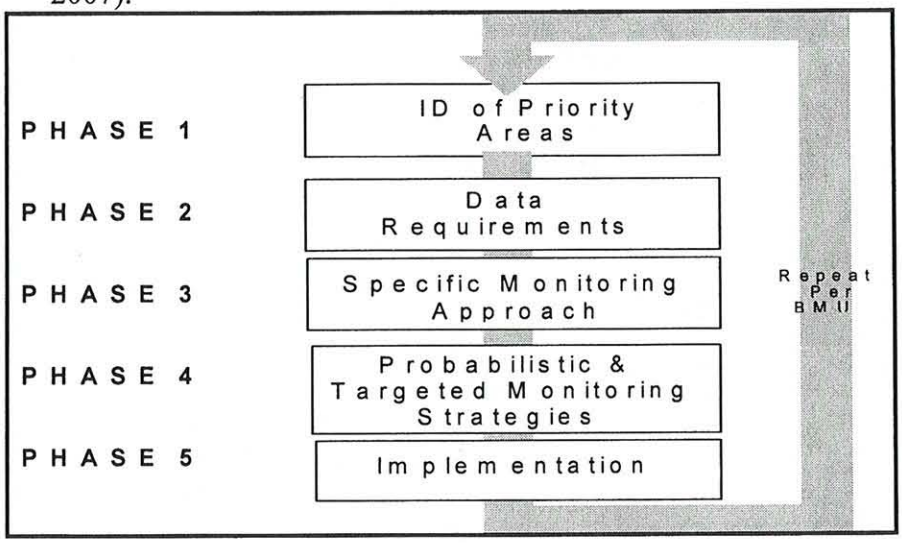


Figure 2.2-2. Phases of the second cycle of the basin management unit approach (2003 – 2007).



Each basin was phased into the second cycle of the Watershed Framework schedule as listed below. Monitoring activities began in April and ended in March the following year.

- April 2003 – March 2004 – Kentucky River basin
- April 2004 – March 2005 – Salt and Licking river basins
- April 2005 – March 2006 – upper Cumberland River and 4-Rivers (lower Cumberland, Ohio, Mississippi and Tennessee rivers) basins
- April 2006 – March 2007 – Green and Tradewater rivers basins
- April 2007 – March 2008 – Big Sandy River, Little Sandy River , and Tygarts Creek basins

Benefits of this approach include:

- Planning and determination of monitoring strategy developed on a watershed approach for TMDL-specific monitoring
- Increased coordination of resource management activities focused on identified priorities in each basin
- Greater ability to stretch limited dollars for implementation activities through partnering and coordination of efforts; spin-off benefit of the initial BMU cycle approach

- Collaboration of state and federal agencies effectively increasing manpower, expertise and environmental disciplines
- More data as monitoring efforts are coordinated – approximately a four-fold increase in assessment data has been realized since the inception of the watershed approach in 1998.
- Better data as agencies standardize methods and procedures.
- Greater opportunities for citizen involvement.

The 2004 305(b) Report represented the completion of the first monitoring and assessment cycle of the five BMU management framework. Whereas the purpose of monitoring in the first watershed cycle was to obtain baseline data statewide, monitoring in the second cycle (begun in 2003) focused on impaired watersheds. However, ambient monitoring continued at long-term stream and lake stations, watersheds not sampled in the first watershed cycle, probabilistic biosurveys, and on small streams to refine reference reach metrics. Much of the work was done sequentially to make best use of monitoring personnel and to collect data during the target index period according to stream sizes. The following is the cycle beginning with planning phase-year with the monitoring and assessment in years two and three, respectively.

- 2002 - 2004 – Kentucky River Basin
- 2003 - 2005 – Salt – Licking basin
- 2004 - 2006 – Upper Cumberland River and 4-Rivers (Lower Cumberland, Mississippi, Ohio, and Tennessee rivers) basin
- 2005 - 2007 – Green – Tradewater rivers basin
- 2006 - 2008 – Big Sandy – Little Sandy rivers and Tygarts Creek basin

2.2.1 Overview of Programs Related to Monitoring and Assessment

The Division of Water has the primary responsibility of monitoring and assessing the commonwealth's water resources, and overseeing the permitting of facilities and industries that discharge point sources to waters through Kentucky Pollutant Discharge Elimination System (KPDES).

To monitor the designated uses of Kentucky's waters and monitor the effectiveness of various control programs, such as KPDES, KDOW has a number of monitoring programs that monitor biological and water quality indicators for 305(b) and 303(d) purposes. Table 2.2.1-1 highlights the monitoring programs and the indicators associated with each. A more comprehensive discussion of surface water quality monitoring programs follows in Chapter 3.

Table 2.2.1-1. Matrix of water resources and monitoring programs

	[a]Long-term Surface Water	[a]Rotating Surface Water	[b,c]Targeted Biological Monitoring	[b]Reference Reach	[d]Probabilistic Biosurvey	[e]Lake Monitoring	[a]Ground-water & Springs Monitor-ing
Streams (1st-5th order)		X	X	X	X		
Large Rivers	X	X	X				
Lakes/Reservoirs						X	
Groundwater							X
Swamps/Wetlands	--	--	--	--	--	--	--

[a]Indicators: physicochemical and pathogen indicator
[b]Indicators: macroinvertebrates, fish, algae, physicochemical, habitat
[c]Includes some 6th order streams where wadeable and associated with ambient water quality stations
[d]Indicators: macroinvertebrates, physicochemical, habitat
[e]Indicators: physicochemical, fish kills, macrophytes, algae

For those waters requiring a Total Maximum Daily Load (TMDL) pollutant reduction, the division's TMDL program manages this process by coordinating the monitoring and development of those discharge or load reductions necessary to bring the impaired Designated Use (DU) into full support. The primary source of pollutants affecting the commonwealth's waters emanate from nonpoint sources (NPS). The fact that sedimentation became the leading pollutant in the 2004 305(b) cycle was a direct reflection on NPS pollution being the more significant source of degradation to the state's waters. This trend follows nationwide.

The primary objectives of the ambient monitoring program were to establish current conditions and long-term records and trends of water quality, biological, fish tissue, and sediment conditions in the state's major watersheds (Kentucky Division of Water, 1986). Sub-objectives were identified as determining: 1) the quality of water in Outstanding Resource Waters; 2) background or baseline water quality conditions in

streams not impacted by discharges; 3) the extent to which point and nonpoint sources affect trophic status of lakes and reservoirs; and 4) the impact of acid precipitation on water quality of lakes and reservoirs. There were 70 primary water quality stations throughout the commonwealth that are monitored on a monthly frequency at each station respective of the current monitoring cycle. These stations were located at mid-and lower watershed reaches of 8-digit HUC basins. Location of stations also occurred near the inflow and outflow of major reservoirs, for example Green River Reservoir in the Green River basin. Those stations outside the BMU monitoring phase were monitored bimonthly. Implemented with the rotating basin approach, were the rotating watershed stations. These stations were monitored for the same suite of water quality parameters as the primary stations, but were monitored in smaller watersheds for a variety of reasons. Those primary considerations for candidate watershed monitoring were: 1) TMDL development; 2) characterize water quality in reference watersheds; 3) monitor waters that receive permitted discharge (for instance a municipal wastewater treatment plant) to characterize upstream and downstream water quality; and 4) characterize water quality conditions in certain landscapes, such as agricultural or mining areas.

KDOW's targeted biological monitoring program has a long history associated in determining the health and long-term water quality of stream and river resources. In addition to biological community survey, water quality variables were included in the monitoring program. Biological monitoring was implemented in the 1970s with significant refinement of the program as more research led to the development of biological multimetric indices (for more information go to Methods for Assessing Biological Integrity Of Surface Waters in Kentucky). A portion of KDOW's biological monitoring emphasis was shifted to development of those metrics and associated criteria through a reference reach approach. This was implemented in the 1990s based on an ecoregional approach to determine reference conditions in each basin. These waters do not represent pristine conditions rather they represent the best examples of high water quality and biological integrity in each of the four identified bioregions. Through this effort a network of streams, or stream reaches, have been identified throughout the commonwealth. These stream reaches were listed in water quality standards, 401 KAR 5:030 and can be accessed at: http://www.lrc.ky.gov/kar/401/005/030.htm. One to three

biological communities (macroinvertebrates, fishes, or algae) were sampled per biosurvey. When one community only was used to make an aquatic life use support determination, either macroinvertebrates or fishes were monitored, typically the former.

A random biosurvey effort was initiated with the help of EPA's technical support group in Corvallis, Oregon. Kentucky's approach was to sample macroinvertebrates once at a minimum of 50 sites in each BMU. In 2004 nutrients and additional chemical water quality variables were added to the suite of indicators used by this program. These additional data were added to aid in the development of numeric nutrient criteria, gain a more comprehensive knowledge of what ambient water quality variable values were in each BMU, and increase the confidence of each aquatic life use assessment. This program allows KDOW to report on aquatic life use support in wadeable streams for the entire state over the five year watershed cycle. Section 305(b) use support determinations made through the probabilistic biosurvy program were determined only on segments directly monitored, whereas extrapolated use support over a given BMU was made for informational, resource conditions, and planning purposes only. This program was important both on the statewide level as well as national level, as indicated by EPA's nationwide probabilistic monitoring efforts in wadeable streams, lakes and reservoirs and a planned large rivers survey in mid-2008.

Lake and reservoir monitoring program began in the early 1980s as part of the Clean Lakes monitoring initiative. Currently KDOW monitors all significant publicly-owned lakes and reservoirs in the state (approximately 105 waterbodies). Many of the Corps of Engineers (COE) reservoirs and Kentucky Lake, a Tennessee Valley Authority (TVA) project, were typically monitored by those respective agencies per our protocol and collaborative efforts. The working relationship between KDOW and COE, Louisville and Nashville Districts, has proved to be a good cooperative effort that is beneficial to all parties by increasing available resources (e.g. COE may provide the field work and KDOW, in coordination with Division of Environmental Services (DES) provides chemical analyses).

Physicochemical and chlorophyll *a* were analyzed to determine current Trophic State status of these waterbodies. Monitoring occurs three times during the growing season (spring, summer and fall) to capture the seasonal variability that occurs and

reflects the trophic state of the resource. By monitoring these resources every five years, trends in water quality can be measured. This monitoring program collects data sufficient to determine aquatic life, secondary contact recreation and drinking water supply DUs. The majority of these resources are posted by Kentucky Fish and Wildlife Department as "no swimming" water bodies, precluding applicability of primary contact recreation monitoring.

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of interest, such as 4th and 5th order wadeable streams, major streams (>5th order), etc.

States are now faced with the situation where they are asked to maintain a robust ambient monitoring program to characterize and track conditions of the state's waters (305b reporting) and at the same time collect data for TMDL development in hundreds of impaired waterbodies and segments, eventually tracking the success of implementation. Faced with these tasks, the most critical resource need at this time is additional support for the TMDL program, as much of the monitoring resources have been shifted from ambient programs into the TMDL monitoring-specific needs. Like most states, Kentucky's schedule requires hundreds (approximately 1700) of TMDLs be developed over the next decade. More staff, lab resources, and especially contractual monies, must be obtained to accomplish this workload without continued loss of ambient monitoring resources, either through additional EPA or state funding. KDOW must establish arrangements to fund TMDL planning, data collection, lab analysis, and development with internal, contractual, and interested third-party resources, including volunteer organizations.

Industrial and point source monitoring is important to the commonwealth's assessment of the effectiveness of permitted facilities adhering to their permit limits, and if the permitted limits are appropriate and protective for the receiving waters. The primary target of this monitoring program would be to gage the biological integrity in these waters. This monitoring need may only be fulfilled with significant monetary and personnel resources; however, neither of these resources will likely become sufficient within this decade. Contracting the work through a federal grant would be one way to address this need.

This permit biomonitoring program would help fulfill sections 301, 302, 303, 305, 306, 307, 308, 314 and 402 of the CWA. Milestones would be incremental, with resources initially directed to pre-permit biomonitoring. As resources increase biomonitoring would be implemented prior to application renewals. The earliest implementation would be 2014 and, given the resources needed to undertake this objective, it is currently not viewed as realistic in this timeframe.

Chapter 3. Surface Water Monitoring and Assessment

3.1 Monitoring Program - General

Kentucky Division of Water has used NHD 1:24,000 scale maps for monitoring, planning, and assessment since 2004. As noted in Chapter 2, there are over 90,000 miles of streams in the commonwealth at this resolution. Of particular interest in this 2008 IR are new 305(b) assessments of two BMUs, the 4-Rivers - upper Cumberland and Green – Tradewater, which were the focus of monitoring in water-years 2005 and 2006, respectively. Table 3.1-1 provides population of stream miles for those two BMUs by river basin.

Table 3.1-1. Total stream miles (NHD 1:24,000 scale) of respective river basins in the 4-Rivers – upper Cumberland and Green – Tradewater BMUs.

4-Rivers - Upper Cumberland BMU, including Ohio River minor tributaries	21,166
upper Cumberland River sub-basin	10,433
4-Rivers sub-basin	10,733
(lower Cumberland, Mississippi, adjacent Ohio and Tennessee rivers)	
Green – Tradewater BMU	23,795
Green River basin including Ohio River minor tributaries	18,858
Tradewater and associated Ohio River minor tributaries	4,937

In this reporting cycle, primary monitoring occurred in 23 of the state's 42 eight-digit HUCs (hydrologic unit codes) established by the U.S. Geological Survey (Figure 2.1-1). Table 3.1-2 provides data on the number of assessed waterbodies, segments and types of waterbodies per the monitoring program for water-years 2005 - 2007. In the 4-Rivers - upper Cumberland BMU, those data include 20 stream segments on 16 streams in the one associated Ohio River subecoregional boundary (05140206); as well, the Green – Tradewater BMU data includes 34 stream segments on 26 streams assessed in the two adjacent Ohio River subregional boundaries HUCs (05140201, 05140202 and 05140203) (Figure 2.2-1). Most of these assessments stemmed from intensive multi-agency watershed monitoring in 2005 and 2006. However, some data more than five years old were considered valid this reporting period.

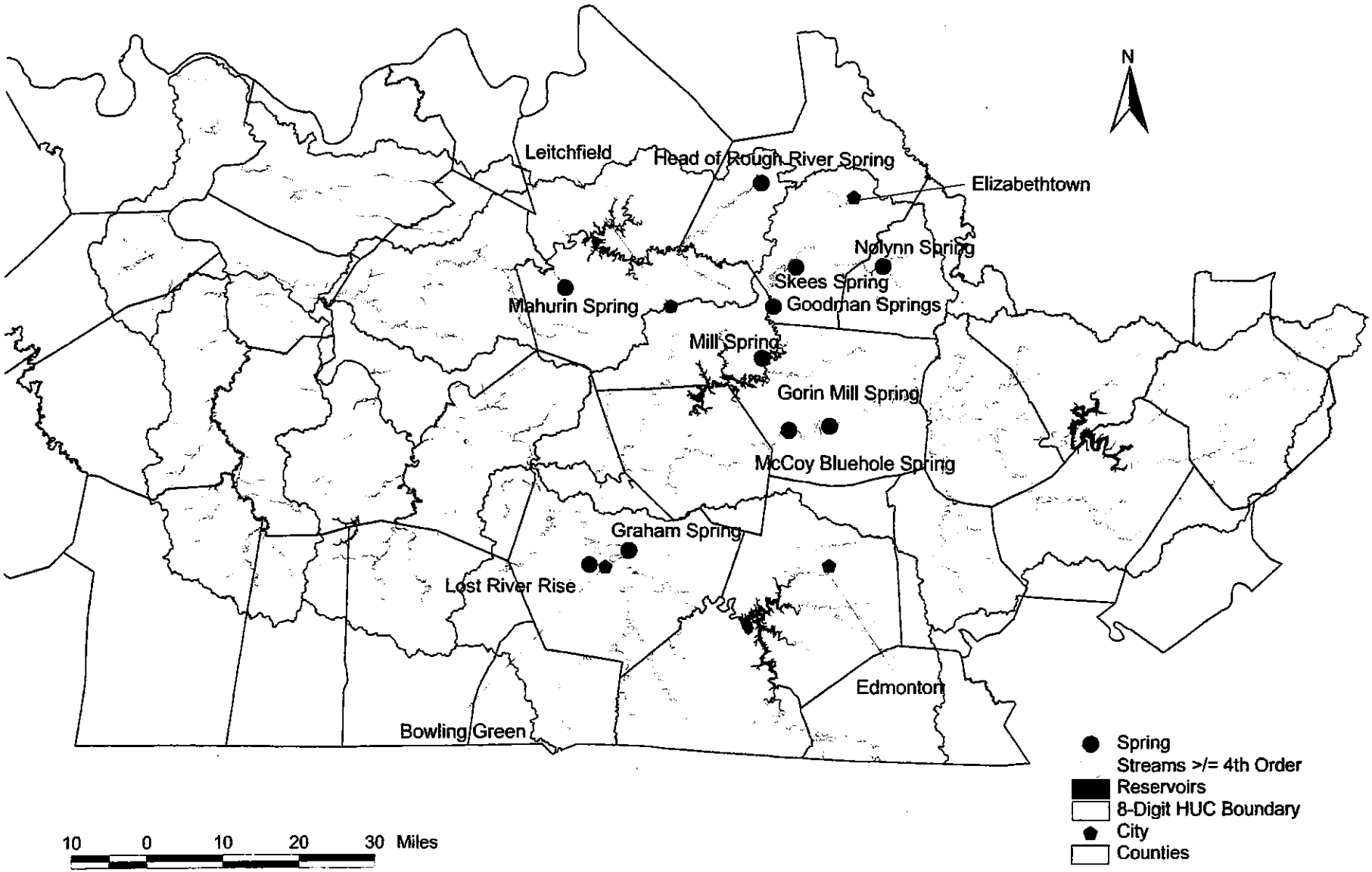
Table 3.1-2. Numbers of streams, stream segments, lakes and reservoirs assessed in the Upper Cumberland – 4-Rivers and Green - Tradewater BMUs of focus during the 2005 and 2006 water-years.

BMU	Number of Streams	Number of Stream Segments	Number of Lakes	Number of Reservoirs	Number of Springs
Upper Cumberland & 4-Rivers	410	562	12	19	0
Green - Tradewater	311	440	0	34	10
Total	721	1002	12	53	10

The 4-Rivers - Upper Cumberland BMU has the greatest number of natural lakes found in the commonwealth. Within this BMU 31 lakes and reservoirs were monitored, including 12 natural lakes found in the Jackson Purchase region (relict coastal plain). Those reservoirs monitored and assessed in the Green – Tradewater BMU numbered 34 (Table 3.1-2).

One waterbody type KDOW added to its monitoring program this monitoring period was springs. These are significant resources in karstic regions of the state. The Green – Tradewater BMU is the largest area of karst in Kentucky. As such, this landscape has many sinkholes, caves (e.g. Mammoth Cave) and subsurface streams and rivers, including associated springs. This portion of south-central Kentucky has long been an area of significant agricultural land uses, with a recent growing urban population, especially in the Bowling Green area; therefore, there are many potential sources and conduits to groundwater or subsurface (losing) streams for pollutants to readily flow into. Given the sensitivity of groundwater, subsurface (losing) streams and associated surface water resources to land uses in this porous limestone region, monitoring significant springs was made a priority for the KDOW. This effort was undertaken by KDOW's Groundwater Branch employing the Water Quality Branch's SOP used for surface water quality monitoring programs. The locations of those monitored may be seen in Figure 3.1-1.

Figure 3.1-1. Monitored springs in the Green River basin, 2006-7.



3.1.1 Ambient (Long-Term) Monitoring Network

Water Quality. Kentucky Division of Water's statewide ambient water quality monitoring network consists of 70 fixed stations (Table 3.1.1-1 and Figure 3.1.1-1). This network was expanded from 44 to 70 in 1998 following the watershed approach adopted by the commonwealth in 1997. Ambient stations were located in the downstream and mid-unit reaches of USGS 8-digit hydrologic unit codes upstream of major reservoirs and in the downstream reaches of major tributaries. The 4-Rivers – Upper Cumberland BMU had 14 ambient stations and the Green – Tradewater BMU had 17 ambient water quality stations (Table 3.1.1-1). The ambient stations of a watershed management unit were sampled monthly during the water-year the unit was in phase to be monitored. During the other four water-years of the watershed cycle, sampling frequency was reduced to bimonthly to devote more monitoring and laboratory resources to the rotating watershed water quality network (discussed later). Field measurements were taken for pH, dissolved oxygen, specific conductance and temperature; samples were analyzed for nutrients, metals and pesticides and herbicides if the streams drained predominantly agricultural areas. During the recreation season of May – October water quality samples are also collected to determine if levels of pathogen-indicating bacteria may be a concern for people who may recreate in these waters. The purpose of the ambient water quality network was to assess long-term conditions and trends on rivers and the larger streams of the state. In addition to KDOW's network, long-term stations were maintained by ORSANCO on the lower Licking, lower Big Sandy, lower Green, lower Tennessee and lower Cumberland rivers and by the USGS on the lower Tennessee River. Figures 3.1.1-2, 3.1.1-3 and 3.1.1-4 give the locations of ambient monitored stations (including associated biomonitored stations) in the upper Cumberland River basin, 4-Rivers basin and the Green – Tradewater BMUs, respectively.

Sediment Quality. Sediment quality was determined at the ambient stations during the year in which monitoring occurred in a watershed management unit. At this time, sediment data supplement other data types; the data were not used for assessment, rather for screening purposes.

Biology. Fish, macroinvertebrate and algae data from the ambient stations provide long-term and trend information on mainstem of rivers and many major

tributaries. Most of the ambient biological stations were located on streams that also have water quality monitoring.

Fish Tissue. Fish tissue samples were obtained from 13 waterbodies or locations in the Upper Cumberland – 4-Rivers BMU and 12 waterbodies or locations in the Green – Tradewater BMU; additionally, 11 waterbodies or locations were monitored throughout Kentucky related to advisories. Tissue was analyzed for methylmercury, selenium, PCBs, chlordane, pesticides and herbicides. Results were used to determine if there were potential problems with contaminants in fish tissue that required further sampling. These results also were used to make fish consumption use support determinations. The widespread pollutant of concern in Kentucky fishes was methylmercury. The following criteria were used to determine level of use support: 0.0 – 0.30 ppm was full use support, greater than 0.30 – 1.0 ppm was partial support and greater than 1.0 ppm was nonsupport. If results were not elevated, no further fish tissue sampling was conducted. This method of assessment closely follows EPA's recommended application of basing water quality evaluation on fish tissue concentrations.

Table 3.1.1-1. Statewide primary water quality stations with upper Cumberland – 4-Rivers and Green – Tradewater BMUs highlighted in bold type.

River Basin & Stream	Station	HUC	Mile-point	Location	Latitude (dd)	Longitude (dd)	Drainage (mi^2)	Station Type
Big Sandy								
[a]Tug Fork	PRI002	05070201	35.1	at Kermit, WV	37.8379	-82.40970	1277	hydrologic unit index site
[a]Tug Fork	PRI003	05070201	77.7	at Freeburn	37.56615	-82.14358	781	mid-hydrologic unit index site
[a]Levisa Fork	PRI006	05070202	115.0	nr Pikeville	37.46435	-82.52589	1229	hydrologic unit index site
[a]Levisa Fork	PRI064	05070203	29.6	nr Louisa	38.1160	-82.6002	2323	hydrologic unit index site
[a]Levisa Fork	PRI094	05070203	75.0	at Auxier	37.72905	-82.75436	1723	mid-hydrologic unit index site
[a]Beaver Creek	PRI095	05070203	95.0	at Allen	37.60280	-82.72754	239	major tributary
[a]Johns Creek	PRI096	05070203	26.6	at McCombs	37.6553	-82.5870	120	inflow to Dewey Res. major tributary
Little Sandy								
[a]Little Sandy River	PRI049	05090104	13.2	at Argillite	38.49053	-82.83404	539	hydrologic unit index site
Tygarts Creek								
[a]Tygarts Creek	PRI048	05090103	23.5	nr Lynn	38.5997	-82.9528	265	hydrologic unit index site
Cumberland River								
Cumberland River	PRI086	05130101	661.0	at Calvin	36.72244	-83.62537	519	mid-hydrologic unit index site
Cumberland River	PRI009	05130101	563.0	at Cumberland Falls	36.83558	-84.34015	1963	hydrologic unit index site
Clear Fork	PRI087	05130101	0.9	nr Williamsburg	36.72617	-84.14224	370	major tributary
[a]Rockcastle River	PRI010	05130102	24.7	at Billows	37.17137	-84.29673	604	hydrologic unit index site
[a]Horse Lick Creek	PRI051	05130102	0.1	nr Lamero	37.32011	-84.13841	62	special interest watershed
Cumberland River	PRI007	05130103	423.0	nr Burkesville	36.68879	-85.56670	6244	hydrologic unit index site
Buck Creek	PRI088	05130103	12.3	nr Dykes	37.0601	-84.4264	253	major tributary
[a]S. Fk. Cumberland R.	PRI008	05130104	44.8	at Blue Heron	36.6703	-84.5492	964	hydrologic unit index site
[a]Little River	PRI043	05130205	24.4	nr Cadiz	36.84104	-87.77731	268	major tributary
Red River	PRI069	05130205	49	nr Keysburg	36.64063	-86.97961	519	hydrologic unit index site

Table 3.1.1-1 (cont.). Statewide primary water quality stations with upper Cumberland – 4-Rivers and Green – Tradewater BMUs highlighted in bold type

River Basin & Stream	Station	HUC	Mile-point	Location	Latitude (dd)	Longitude (dd)	Drainage (mi^2)	Station Type
Kentuck River								
[a]Eagle Creek	PRI022	05100205	21.5	at Glenco	38.7061	-84.8254	437	hydrologic unit index site
Kentucky River	PRI024	05100205	64.8	at Frankfort	38.2129	-84.8721	5409	hydrologic unit index site
Kentucky River	PRI066	05100205	30.5	nr Lockport	38.4450	-84.9569	6177	hydrologic unit index site
Kentucky River	PRI067	05100205	119.0	at High Bridge	37.8201	-84.7051	4587	hydrologic unit index site
[a]Elkhorn Creek	PRI098	05100205	10.3	nr Peaks Mill	38.2686	-84.81429	473	major tributary
[a]Dix River	PRI045	05100205	34.7	nr Danville	37.64176	-84.66113	318	hydrologic unit index site
Silver Creek	PRI099	05100205	5.9	nr Ruthton	37.73251	-84.43674	111	major tributary
Kentucky River	PRI058	05100204	171.5	nr Trapp	37.84675	-84.08182	3235	hydrologic unit index site
Red River	PRI046	05100204	21.6	Clay City	37.86468	-83.93316	362	hydrologic unit index site
N. Fork Kentucky River	PRI031	05100201	49.7	Jackson	37.55127	-83.38464	1101	hydrologic unit index site
Troublesome Creek	PRI090	05100201	7.2	nr Clayhole	37.46722	-83.27936	194	major tributary
[a]Middle Fk. Kentucky R.	PRI032	05100202	8.4	nr Tallega	37.55505	-83.59373	536	hydrologic unit index site
[a]South Fork Kentucky R.	PRI033	05100203	12.1	at Booneville	37.47513	-83.67082	692	hydrologic unit index site
Red Bird River	PRI091	05100203	5.5	nr Oneida	37.23690	-83.64500	192	major tributary
Goose Creek	PRI092	05100203	3.4	nr Oneida	37.23280	-83.69103	251	major tributary
Licking River								
Licking River	PRI062	05100101	226	at West Liberty	37.91470	-83.26169	335	inflow to Cave Run Reservoir
[a]Slate Creek	PRI093	05100101	10.0	nr Owingsville	38.1415	-83.7285	185	major tributary
[a]Licking River	PRI061	05100101	78.2	at Claysville	38.52058	-84.18310	1996	mid-hydrologic unit index site
[a]N. Fork Licking River	PRI060	05100101	6.9	nr Milford	38.58123	-84.16566	287	major tributary
[a]S. Fork Licking River	PRI059	05100102	11.7	at Morgan	38.6033	-84.4008	838	hydrologic unit index site
[a]Hinkston Creek	PRI102	05100102	0.2	at Ruddles Mill	38.30471	-84.23778	259	major tributary
[a]Stoner Creek	PRI101	05100102	0.6	nr Ruddles Mill	38.3029	-84.2497	283	major tributary
[b]Licking River	PRI111	05100101	35.5	at Butler	38.7898	-84.3674	3384	hydrologic unit index site
Licking River	PRI062	05100101	226	at West Liberty	37.91470	-83.26169	335	inflow to Cave Run Reservoir
Licking River	PRI062	05100101	226	at West Liberty	37.91470	-83.26169	335	inflow to Cave Run Reservoir

Table 3.1.1-1 (cont.). Statewide primary water quality stations with upper Cumberland – 4-Rivers and Green – Tradewater BMUs highlighted in bold type.

River Basin & Stream	Station	HUC	Mile-point	Location	Latitude (dd)	Longitude (dd)	Drainage (mi^2)	Station Type
Ohio River Tributary								
[a]Kinniconick Creek	PRI063	05090201	10.4	nr Tannery	38.57458	-83.18811	229	major tributary
Salt River								
[a]Salt River	PRI029	05140102	22.9	at Shepherdsville	37.98524	-85.71720	1197	hydrologic unit index site
[a]Salt River	PRI052	05140102	82.5	at Glensboro	38.00231	-85.06028	173	major reservoir inflow
Brashears Creek	PRI105	05140102	1.2	at Taylorsville	38.03040	-85.35154	262	major tributary
[a]Floyds Fork	PRI100	05140102	7.4	nr Shepherdsville	38.03447	-85.65936	259	major tributary
[a]Rolling Fork	PRI057	05140103	12.3	nr Lebanon Jct.	37.82267	-85.74787	1374	hydrologic unit index site
[a]Beech Fork	PRI041	05140103	48.0	nr Maud	37.83266	-85.29610	436	major tributary
Green River								
[a]Green River	PRI018	05110001	226.0	at Munfordville	37.2687	-85.8853	1680	hydrologic unit index site
Green River	PRI076	05110001	334.0	at Neatsville	37.1919	-85.1303	339	major reservoir inflow
[a]Nolin River	PRI021	05110001	80.9	at White Mills	37.55536	-86.03182	351	major reservoir inflow-tributary
[a]Russell Creek	PRI077	05110001	10.0	nr Bramlett	37.16790	-85.47005	264	major tributary
Little Barren River	PRI078	05110001	6.3	nr Monroe	37.2264	-85.6776	250	major tributary
Bear Creek	PRI075	05110001	11.8	nr Huff	37.2488	-86.3612	137	major tributary
Barren River	PRI072	05110002	1.0	nr Woodbury	37.17069	-86.62052	2264	hydrologic unit index site
Drakes Creek	PRI074	05110002	8.0	nr Bowling Green	36.93492	-86.39227	5487	major tributary
Green River	PRI055	05110003	72.0	at Livermore	37.47832	-87.12694	6428	hydrologic unit index site
Mud River	PRI056	05110003	17.4	nr Gus	37.12324	-86.90042	268	major tributary
Green River	PRI103	05110003	150.0	nr Woodbury	37.18242	-86.61034	3136	hydrologic unit index site
Rough River	PRI014	05110004	62.5	nr Dundee	37.54720	-86.72139	757	mid-hydrologic unit index site
Rough River	PRI054	05110004	1.0	nr Livermore	37.49934	-87.06574	1068	hydrologic unit index site
[b]Panther Creek	PRI113	05110005	2.7	nr West Louisville	37.72497	-87.31513	371	major tributary
Pond River	PRI012	05110006	12.4	nr Sacramento	37.44179	-87.35285	578	hydrologic unit index site

Table 3.1.1-1 (cont.). Statewide primary water quality stations with upper Cumberland – 4-Rivers and Green – Tradewater BMUs highlighted in bold type.

River Basin & Stream	Station	HUC	Mile-point	Location	Latitude (dd)	Longitude (dd)	Drainage (mi^2)	Station Type
Ohio River Tributary								
[b]Highland Creek	PRI110	05140102	14.0	nr Smith Mill	37.75699	-87.79514	145	major tributary
Tradewater River								
[a, b]Tradewater River	PRI112	05140205	25.0	nr Piney	37.39896	-87.90456	618	hydrologic unit index site
Tennessee River								
Clarks River	PRI106	06040006	17.6	nr Sharpe	36.96130	-88.49322	310	hydrologic unit index site
W. Fork Clarks River	PRI107	06040006	8.6	nr Symsonia	36.93245	-88.54396	186	major tributary
Mississippi River								
[a, b]Bayou de Chien	PRI109	08010201	13.6	nr Cayce	36.61543	-89.03025	103	major tributary
[a]Mayfield Creek	PRI042	08010201	13.7	nr Magee Springs	36.92989	-88.94297	274	major tributary

[a]Long-term ambient water quality stations that are also long-term ambient biological monitoring stations
[b]Stations created since 2004 (these were changes necessary for sampler safety issues)

Figure 3.1.1-1. Fixed (long-term) ambient surface water quality network.

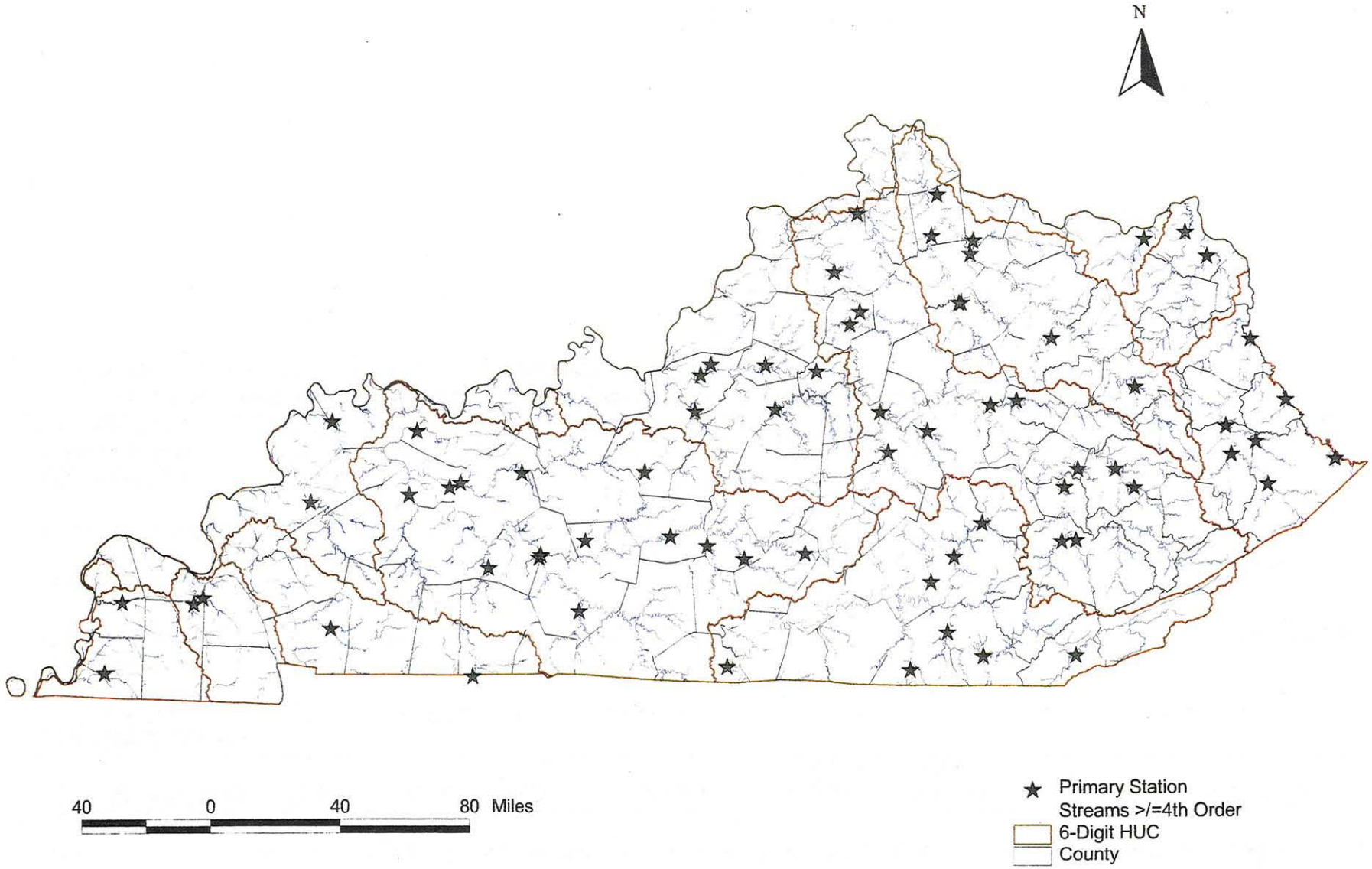


Figure 3.1.1-2. Targeted biological (including probabilistic sites) and ambient water quality monitoring in upper Cumberland River basin.

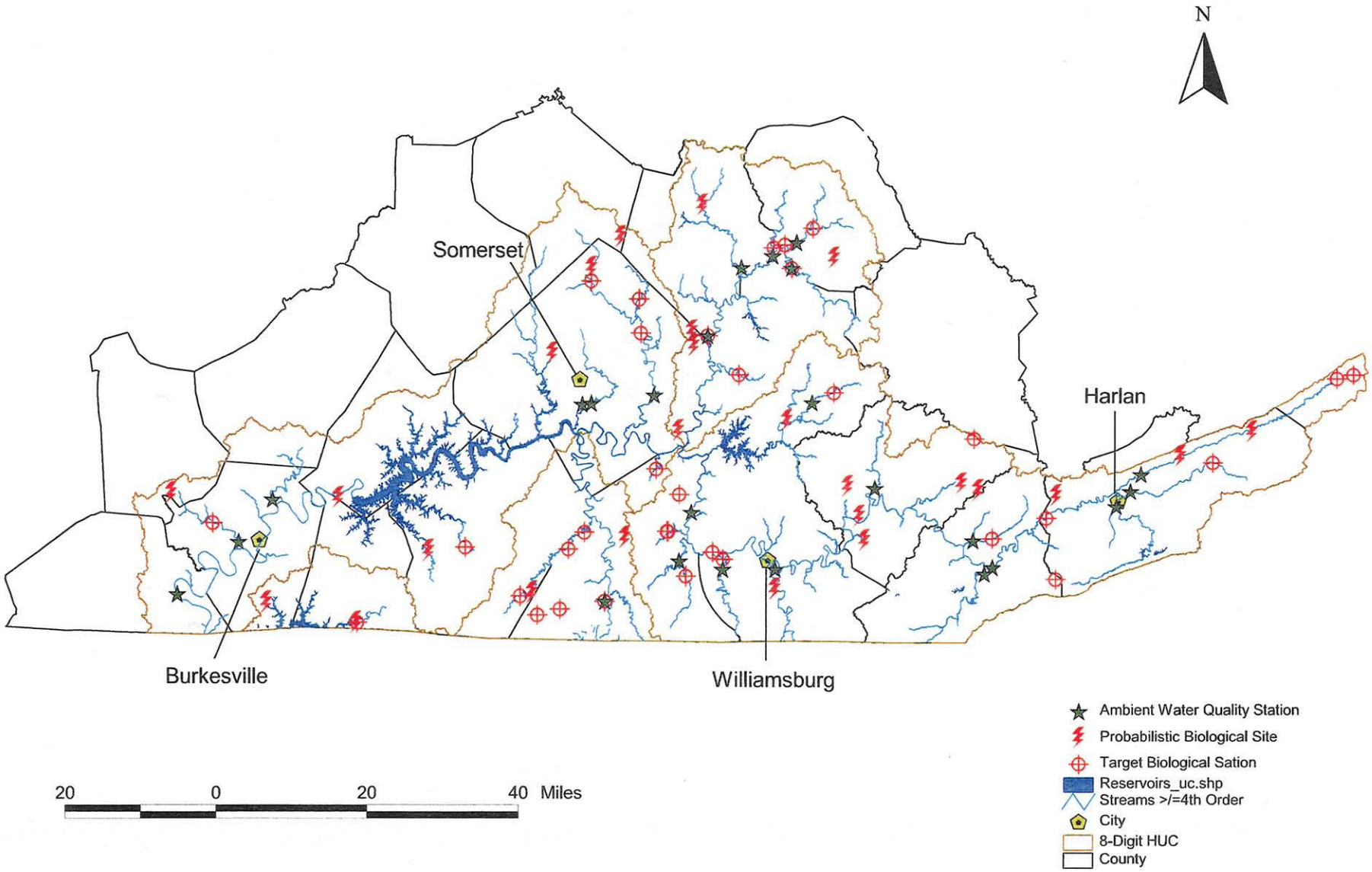


Figure 3.1.1-3. Target biological (including probabilistic sites) and ambient water quality monitoring in 4-Rivers basin.

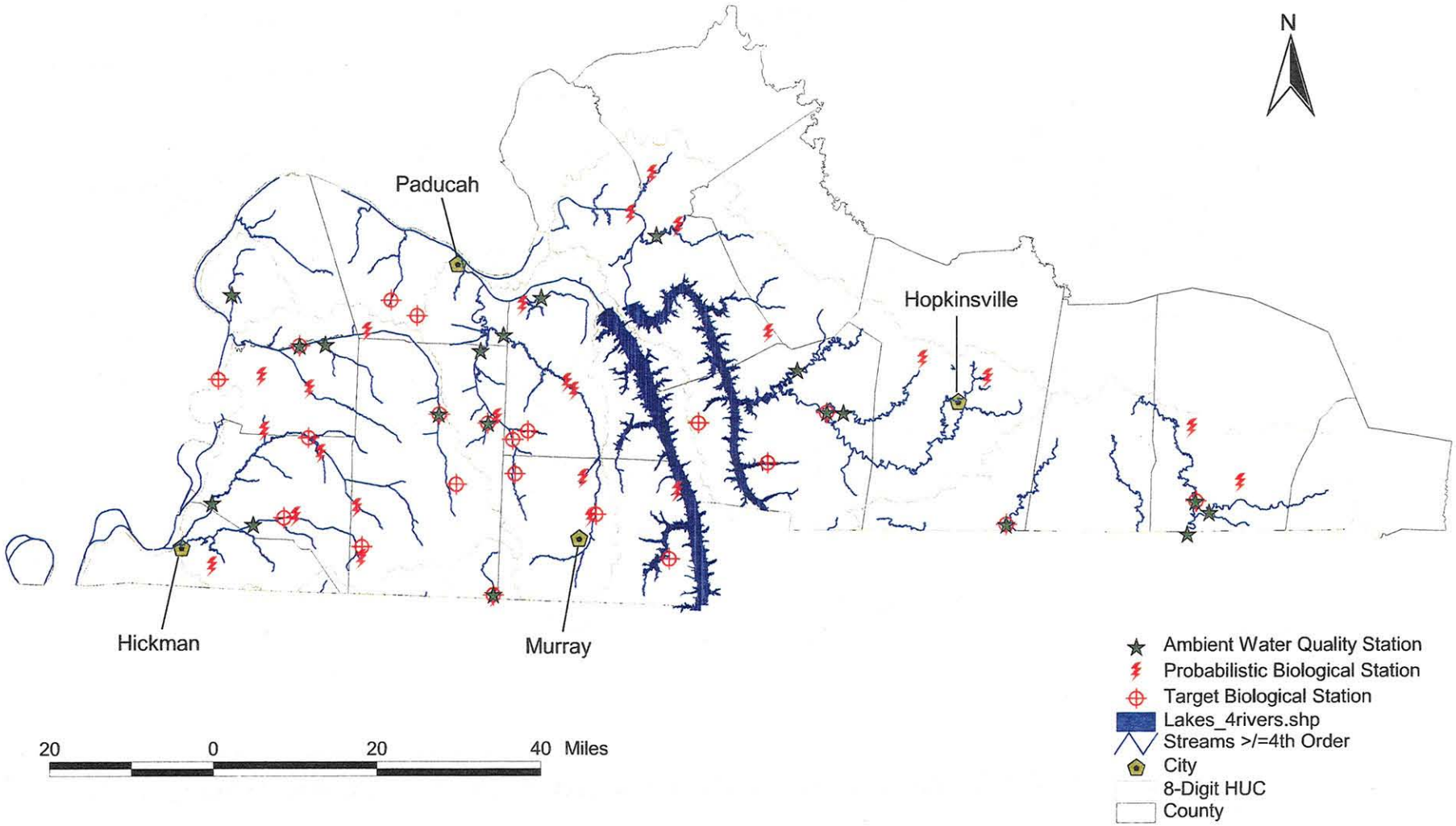
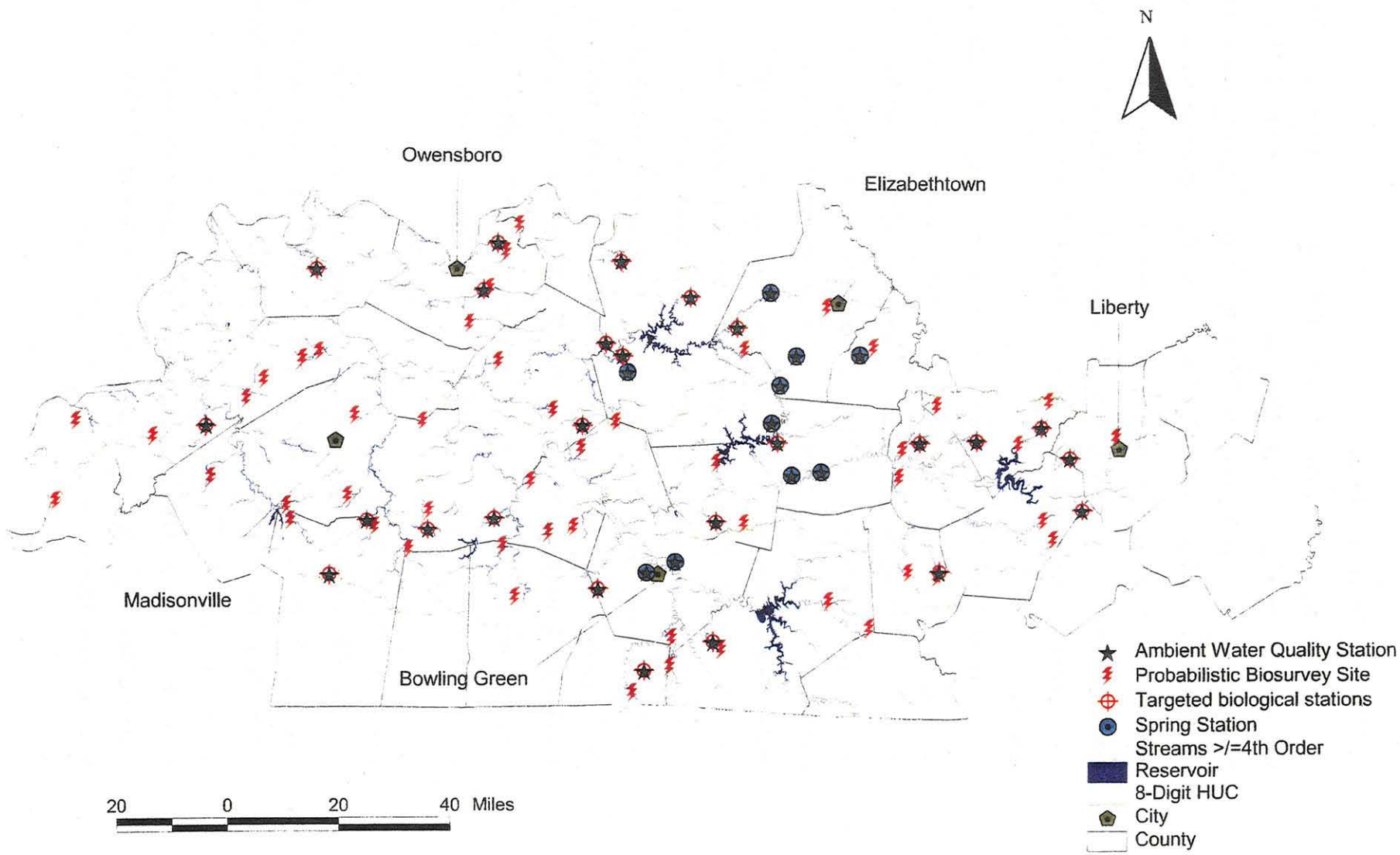


Figure 3.1.1-4. Targeted biological (including probabilistic sites) and ambient water quality monitoring stations in Green - Tradewater BMU.



3.1.2 Rotating Watershed Network

An interagency monitoring team established several objectives for the one-year watershed water quality monitoring stations. The objectives were to: 1) obtain an overall representation of the quality of the basin's water resources; 2) determine water quality conditions associated with major land cover or land uses such as forest, urban, agriculture and mining; 3) characterize the basin's least impacted waters; and 4) collect data for establishing total maximum daily loads (TMDLs) as required by Section 303(d) of the Clean Water Act. Parameters analyzed were similar to those described earlier for the ambient network.

The Division of Environmental Services, the laboratory of the Kentucky Environmental and Public Protection Cabinet, analyzed water quality samples collected by KDOW. The rotating watershed water quality monitoring network consisted of 16 stations in the upper Cumberland River basin and 14 stations in the 4-Rivers basin (Tables 3.1.2-1; 3.1.2-; and 3.1.2-). The Green – Tradewater BMU had 30 rotating water quality stations. Rotating stations were typically located at the downstream reaches of USGS 11-digit watersheds; however, some streams with particular issue of concern were monitored in this network for that singular reason (Figures 3.1.2-1; 3.1.2-2; and 3.1.2-3). Monthly sampling was conducted over the 12-month watershed monitoring period April 2005 – March 2006 in the Upper Cumberland and 4-Rivers BMU and April 2006 – March 2007 in the Green - Tradewater BMU to characterize water quality of each watershed represented. The KDOW follows water quality sample collection and preservation procedures found in its water quality monitoring SOP (2005).

3.1.3 Swimming Advisory Monitoring

KDOW continued to sample areas with long-standing swimming advisories in three basins in 2007: 10 sites in the upper Cumberland River basin on seven streams, 18 watersheds or sites in the Northern Kentucky area (lower Licking River basin) and four sites on the North Fork Kentucky River basin from Chavies to headwaters.

In 2007 the KDOW began monitoring large reservoirs for pathogen indicator (*Escherichia coli*). This effort will result in 12 reservoirs, mostly COE dam projects, being monitored for PCR at significant recreation areas.

Table 3.1.2-1. Rotating watershed water quality stations.

Site ID	Stream	Latitude	Longitude	Mile Point	Description
		Upper Cumberland River Basin (April 2005 – March 2006)			
CRW008	Marrowbone Creek	36.78639	-85.42019	1.2	nr Leslie
CRW009	Croccus Creek	36.86561	-85.33877	2.4	nr Bakertown
CRW010	Roundstone Creek	37.33535	-84.23246	0.5	nr Livingston
CRW011	Middle Fork Rockcastle R.	37.34381	-84.08069	4.6	nr Parrot
CRW012	South Fork Rockcastle R.	37.29631	-84.09319	5.3	nr Cornette
CRW014	Laurel River	37.042	-84.04831	31.3	nr Lily
CRW015	Marsh Creek	36.74389	-84.371	7.2	nr Sand Hill
CRW016	Jellico Creek	36.74549	-84.26594	5.4	nr Duckrun
CRW017	Richland Creek	36.86901	-83.89800	1.8	nr Barbourville
CRW018	Straight Creek	36.7735	-83.66989	0.2	nr Straight Cr
CRW019	Yellow Creek	36.70981	-83.64492	1.0	nr Ponza
CRW020	Poor Fork Cumberland River	36.89331	-83.26561	5.4	at Rosspoint
CRW021	Clover Fork Cumberland River	36.861	-83.29181	1.9	at Golden Ash
CRW022	Martins Fork	36.84720	-83.32554	2.8	nr Harlan
CRW023	Pitman Creek	37.04573	-84.57631	5.95	at Cabin Hollow Brdg

Table 3.1.2-1 (cont.). Rotating watershed water quality stations.

Site ID	Stream	Latitude	Longitude	Mile Point	Description
		Upper Cumberland River Basin (April 2005 – March 2006, cont.)			
CRW024	Pitman Creek	37.04391	-84.59591	7.0	at Somerset STP

Figure 3.1.2-1. Upper Cumberland River basin rotating watershed water quality stations monitored 2005-6.

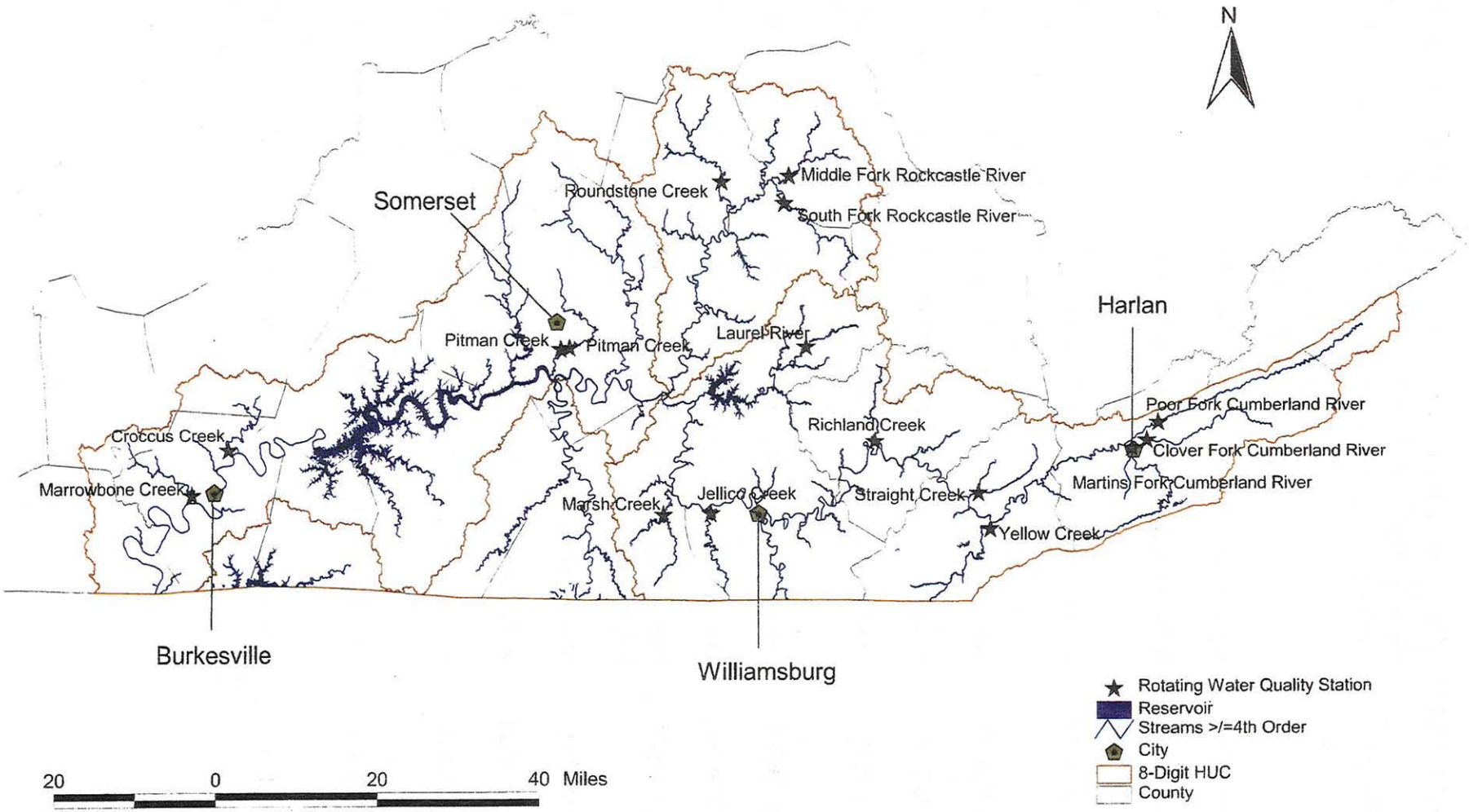


Table 3.1.2-2. Rotating watershed water quality stations in 4-Rivers (lower Cumberland, Mississippi, Ohio and Tennessee rivers) basins.

Site ID	Stream	Latitude	Longitude	Mile Point	Description
		4-Rivers Basin (April 2005 – March 2006)			
MRW001	Mayfield Creek	36.81889	-88.63039	38.6	nr Hickory
MRW002	Wilson Creek	36.93381	-88.88581	0.7	nr Cunning-ham
MRW003	Obion Creek	36.64939	-89.12261	8.7	at Whaynes Corner
MRW004	Terrapin Creek	36.50866	-88.49890	3.4	nr Bell City
ORW001	Shawnee Creek	37.01519	-89.09711	2.7	nr Wickliffe
TRW001	Cypress Creek	37.02939	-88.52219	3.1	nr Calvert City
TRW002	Panther Creek	36.80556	-88.52219	1.3	nr Hicksville
CRW001	Livingston Cr	37.14311	-88.1635	5.8	nr Dycusburg
CRW002	Muddy Fork Little River	36.91389	-87.84419	5.7	nr Cadiz
CRW003	Sinking Fork	36.84069	-87.74081	4.1	nr Cadiz
CRW004	W Fk Red R.	36.65161	-87.37769	16.1	nr Oak
CRW005	Whippoorwilll Creek	36.69690	-86.96334	4.5	nr Dot
RED001	Red River	36.67819	-86.93212	57.4	at Logan Mill Road
RED002	S Fk Red R.	36.66722	-86.89700	2.6	at Barrens Plain Road

Figure 3.1.2-2. 4-Rivers rotating water quality stations monitored 2005-6.

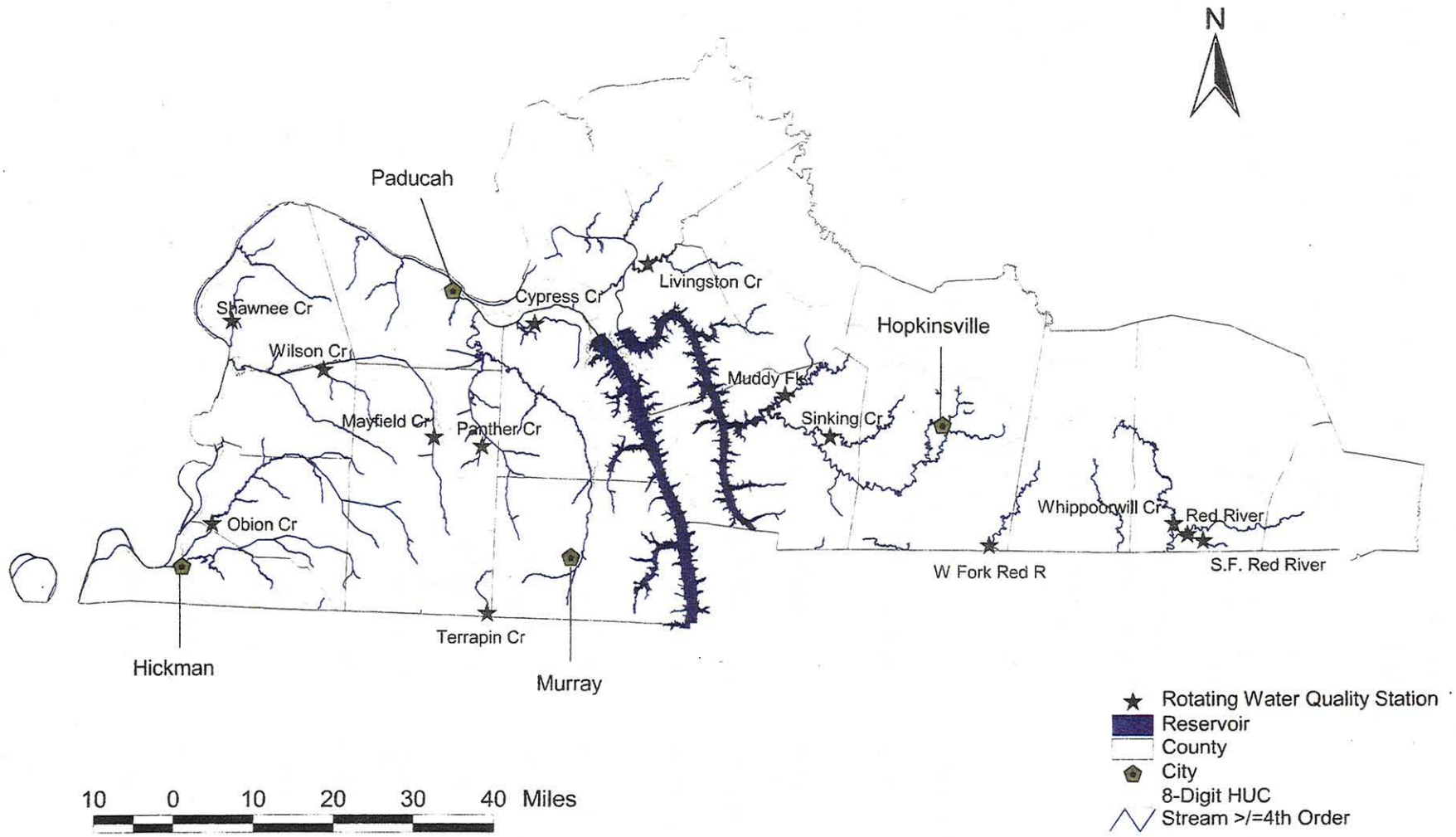


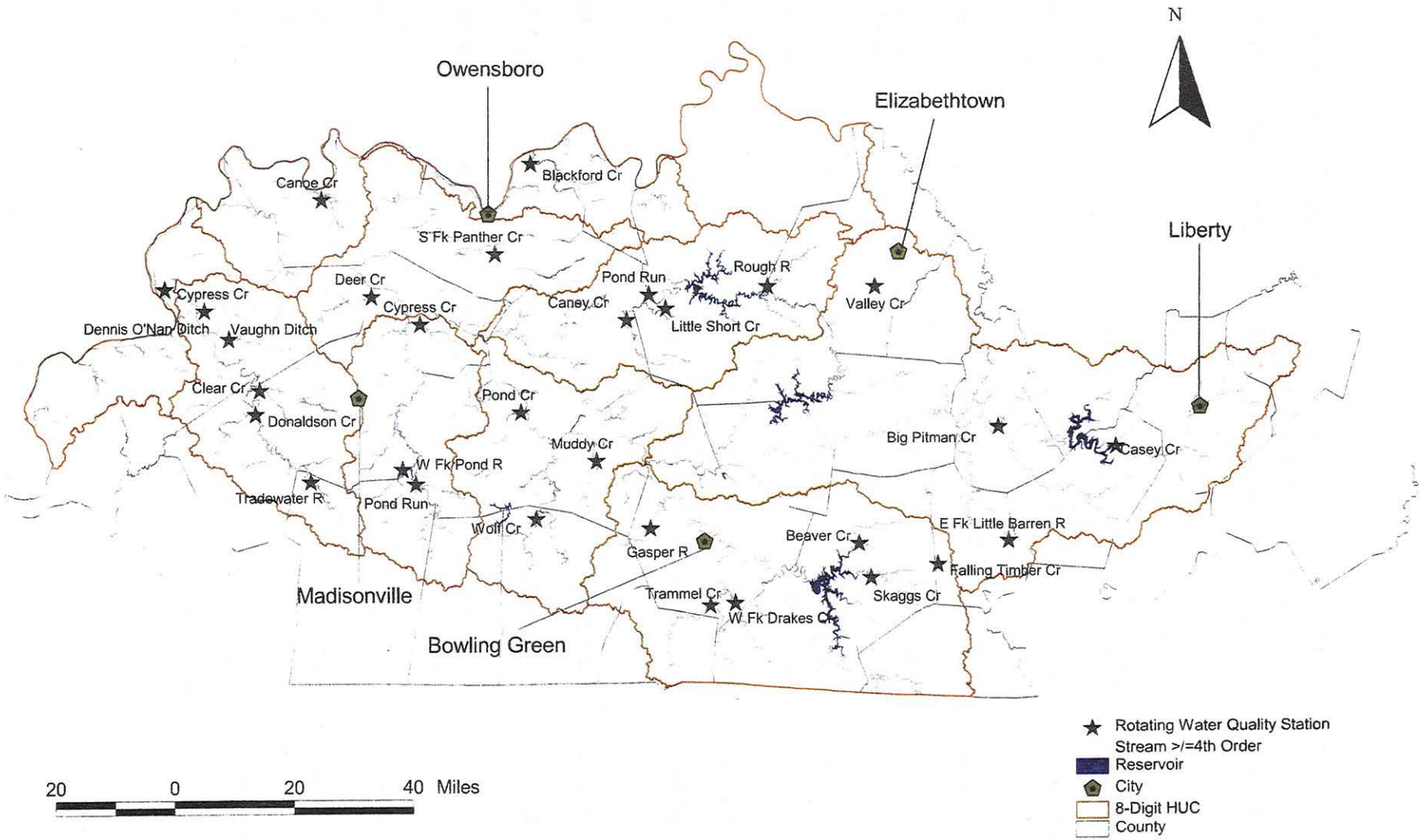
Table 3.1.2-3. Rotating watershed water quality stations, Green – Tradewater Basin Management Unit (cont.).

Site ID	Stream	Latitude	Longitude	Mile Point	Description
		Green – Tradewater BMU (April 2006 – March 2007)			
GRN001	Cypress Creek/ Dennis O'Nan Ditch	37.57910	-88.09751	2.1	nr Dakoven
GRN002	Relict Cypress Creek Channel	37.5304	-87.9751	2.2	nr Sturgis
GRN003	Vaughn Ditch	37.46343	-87.89834	2.3	nr Derby
GRN004	Clear Creek	37.3425	-87.8003	1.5	nr Providence
GRN005	Donaldson Cr.	37.284	-87.8103	2.3	nr Fryer
GRN006	Tradewater R.	37.123	-87.6392	104.0	nr Dawson Springs
GRN012	Deer Creek	37.573	-87.46500	3.1	Onton
GRN013	Cypress Creek	37.50908	-87.31656	3.3	nr Rumsey
GRN014	W. Fk. Pond R.	37.157	-87.3598	2.2	nr Mount Carmel
GRN017	Pond Creek	37.30068	-87.00449	1.8	nr Martwick
GRN028	Pond River	37.12222	-87.31946	60.5	nr Apex
GRN018	Wolf Lick Cr.	37.0416	-86.95414	4.2	nr Dunmore
GRN019	Muddy Creek	37.18390	-86.77307	5.2	nr Dunbar
GRN020	Gasper River	37.02207	-86.60702	12.2	nr Hadley
GRN021	W. Fk. Drakes Creek	36.83858	-86.42451	1.2	nr Boyce
GRN022	Trammel Creek	36.845	-86.3494	5.5	nr Allen Spgs
GRN023	Beaver Creek	36.9898	-85.9754	3.2	nr Glasgow

Table 3.1.2-3 (cont.). Rotating watershed water quality stations, Green – Tradewater Basin Management Unit (cont.).

Site ID	Stream	Latitude	Longitude	Mile Point	Description
		Green – Tradewater BMU (April 2006 – March 2007)			
GRN024	Skaggs Creek	36.9073	-85.939	5.9	nr Roseville
GRN025	Big Pitman Cr.	37.27303	-85.55374	3.1	nr Greens-burg
GRN026	Casey Creek	37.22388	-85.19682	0.8	Knifely
GRN029	Falling Timber Creek	36.93916	-85.73713	11.3	nr Summer Shade
GRN030	E. Fk. Little Barren River	36.99604	-85.52349	19.6	at Mosby Ridge Rd
GRN011	Blackford Cr.	37.89885	-86.98628	3.7	nr Maceo
GRN009	S. Fk. Panther Creek	37.6794	-87.09078	1.7	nr Sutherland
GRN007	Canoe Creek	37.802	-87.6247	3.5	nr Henderson
GRN015	Caney Creek	37.52621	-88.68663	1.85	nr Olaton
GRN031	Little Short Creek	37.55447	-86.56852	0.6	at SR 736
GRN032	Pond Run	37.58713	-86.6201	2.7	nr Shreve
GRN016	Rough River	37.6098	-86.2588	129.9	at Hardin Springs
GRN027	Valley Creek	37.61141	-85.93063	2.2	nr Glendale

Figure 3.1.2-3. Green-Tradewater BMU rotating watershed water quality stations monitored 2006-7.



3.1.4 Biomonitoring and Biosurvey Programs

Introduction. There are four biological monitoring programs within KDOW. Those programs have the same primary purpose of assessing the aquatic life use support of streams in the commonwealth. Although each program is driven by broad objectives, together they provide a comprehensive program that addresses aquatic life use attainment from several approaches: 1) random, overall snapshot of the ambient conditions; 2) the integration of conditions in relatively large watersheds monitored for long-term trend evaluation; 3) impact assessments related to nonpoint source pollution; 4) impact assessments related to point source pollution; and 5) a regional reference program to assess least impacted streams for development and refinement of metric benchmarks used to assess lotic ecosystems.

Reference Reach Program. In 1991, KDOW began a Reference Reach (RR) program to gather data from the state's least impacted streams. Biologists first identified potential least impacted waters representative of Level-III Ecoregions. Then, data on physicochemical water quality, sediment quality, fish tissue residue, habitat condition, and biotic conditions were collected to define the potential environmental quality for the streams of a particular ecoregion; this to provide a baseline to compare other streams in the same ecoregion to those reference conditions. Data from the reference reach program provided the basis for the development of narrative and numerical biocriteria for the various ecoregions of the commonwealth; results indicated multimetric indices could be developed resulting in four bioregions. Fifty-five stream sites from seven Level-III Ecoregions were initially sampled in the spring and fall of 1992-1993. Since that time, many additional potential reference reach streams were sampled. Some were adopted as reference reach streams; others were rejected because they did not possess adequate quality to represent least impacted condition. Currently, 150 RR streams totaling approximately 1,102 miles are identified throughout the commonwealth (Table 3.1.4-1). Forty-four (141.7 miles) candidate exceptional or reference reach streams, or segments, are proposed for inclusion in 401 KAR 5:030 during the triennial review submission, 2008 (Table 3.1.4-2).

Table 3.1.4-1. Reference reach streams in Kentucky with those in bold to emphasize streams in the upper Cumberland – 4-Rivers and Green – Tradewater BMUs.

Stream	County	Location	Basin	Start Segment	End Segment	Total Miles
Hobbs Fork	Martin	Mouth to headwaters	Big Sandy	3.8	0.0	3.8
Hobbs Fork, UT	Martin	Hobbs Fork to headwaters	Big Sandy	0.55	0.0	0.55
Lower Pigeon Branch	Pike	Left Fork to headwaters	Big Sandy	1.7	0.5	1.2
Russell Fork	Pike	Clinch Field RR Yd off SR 80 to Kentucky – Virginia state line	Big Sandy	16.0	14.4	1.6
Toms Branch	Pike	Mouth to headwaters	Big Sandy	1.4	0.1	1.3
Cane Creek	**Whitley**	**0.1 mi below Daylight Branch**	**Upper Cumberland**	**11.5**	**7.0**	**4.5**
Bark Camp Creek	**Whitley**	**U.S. Forest Service Rd 193 bridge**	**Upper Cumberland**	**7.6**	**2.6**	**5**
Bad Branch	**Letcher**	**0.2 mi above KY 932 bridge**	**Upper Cumberland**	**3.0**	**0.0**	**3**
Beaver Creek	**McCreary**	**Mouth to Freeman and Middle forks**	**Upper Cumberland**	**6.5**	**0.0**	**6.5**
Brownies Creek	**Bell, Harlan**	**Blacksnake Branch to headwaters**	**Upper Cumberland**	**16.0**	**9.0**	**7.0**
Brushy Creek	**Pulaski**	**Mouth to headwaters**	**Upper Cumberland**	**16.0**	**0.0**	**16.0**
Buck Creek	**Pulaski**	**Off Bud Rainey Rd**	**Upper Cumberland**	**62.6**	**28.9**	**33.7**
Bunches Creek	**Whitley**	**Mouth to headwaters**	**Upper Cumberland**	**3.3**	**0.0**	**3.3**
Cogur Fork	**McCreary**	**Mouth to headwaters**	**Upper Cumberland**	**7.9**	**0.0**	**7.9**
Dog Slaughter Creek	**Whitley**	**Mouth to North and South forks**	**Upper Cumberland**	**1.1**	**0.0**	**1.1**
Eagle Creek	**McCreary**	**KY 896 bridge**	**Upper Cumberland**	**6.3**	**3**	**3.3**
Fugitt Creek	**Harlan**	**Land use change to headwaters**	**Upper Cumberland**	**4.9**	**0.5**	**4.4**
South Fork Dog Slaughter Creek	**Whitley**	**1000 ft above foot bridge (Dog Slaughter Falls Trail)**	**Upper Cumberland**	**4.6**	**0.0**	**4.6**
Marsh Creek	**McCreary**	**Laurel Creek to headwaters**	**Upper Cumberland**	**26.2**	**8.6**	**17.8**
Horse Lick Creek	**Jackson**	**Mouth to Clover Bottom**	**Upper Cumberland**	**12.3**	**0.0**	**12.3**
Indian Creek	**McCreary**	**Laurel Fork to Barren Fork**	**Upper Cumberland**	**6.7**	**2.3**	**4.4**
Howards Creek	**Clinton**	**Dale Hollow Lake backwaters to headwaters**	**Upper Cumberland**	**3.4**	**0.8**	**2.6**
Jackie Branch	**Whitley**	**Mouth to headwaters**	**Upper Cumberland**	**1.7**	**0.0**	**1.7**
Laurel Fork of Clear Fork	**Whitley**	**Tennessee state line to Tiny Branch/Pine Creek**	**Upper Cumberland**	**13.0**	**4.2**	**8.8**
Laurel Fork of Middle Fork Rockcastle River	**Jackson**	**Mouth to headwaters**	**Upper Cumberland**	**12.2**	**0.0**	**12.2**
Little South Fork Cumberland River	**McCreary/ Wayne**	**River mile 35.5 to river mile 14.5**	**Upper Cumberland**	**14.5**	**4.1**	**10.4**
Little South Fork Cumberland River	**McCreary/ Wayne**	**Mouth to Lanham Branch**	**Upper Cumberland**	**35.6**	**0.0**	**35.6**

Table 3.1.4-1 (cont.). Reference reach streams in Kentucky with those in bold to emphasize those in streams upper Cumberland – 4-Rivers and Green – Tradewater BMUs.

Stream	County	Location	Basin	Start Segment	End Segment	Total Miles
Middle Fork Rockcastle River	**Jackson**	**Mouth to Horselick Creek**	**Upper Cumberland**	**7.8**	**0.0**	**7.8**
Mud Camp Creek	**Monroe/ Cumberland**	**UT to headwaters**	**Upper Cumberland**	**8.4**	**3.7**	**4.7**
Mud Camp Creek	**Cumberland**	**Mouth to Collins Branch**	**Upper Cumberland**	**1.3**	**0.0**	**1.3**
Poor Fork Cumberland River	**Letcher**	**Franks Creek to headwaters**	**Upper Cumberland**	**51.7**	**46.1**	**5.6**
Presley House Branch	**Letcher**	**Mouth to headwaters**	**Upper Cumberland**	**1.5**	**0.0**	**1.5**
Puncheoncamp Branch	**McCreary**	**Mouth to headwaters**	**Upper Cumberland**	**1.9**	**0/0**	**1.9**
Rock Creek	**McCreary**	**Kentucky – Tennessee state line (river mile 21.9 to White Oak Cr.**	**Upper Cumberland**	**21.5**	**3.9**	**17.8**
Rock Creek, unidentified tributary	**McCreary**	**Mouth to headwaters**	**Upper Cumberland**	**1.9**	**0.0**	**1.9**
Rock Creek, unidentified tributary	**McCreary**	**Mouth to headwaters**	**Upper Cumberland**	**1.15**	**0.0**	**1.15**
Shilalah Creek	**Bell**	**River mile 5.5 to Clear Fork Yellow Creek**	**Upper Cumberland**	**5.5**	**0.0**	**5.5**
Sinking Creek	**Laurel**	**Mouth to White Oak Creek**	**Upper Cumberland**	**9.8**	**0.0**	**9.8**
South Fork Dog Slaughter Creek	**Whitley**	**Basin to Dog Slaughter Creek**	**Upper Cumberland**	**4.6**	**0.0**	**4.6**
Sulphur Creek	**Clinton**	**Dale Hollow Lake backwaters to headwaters**	**Upper Cumberland**	**5.1**	**1.7**	**3.4**
Watts Branch	**McCreary**	**Mouth to headwaters**	**Upper Cumberland**	**2.6**	**0.0**	**2.6**
Watts Creek	**Harlan**	**Basin above Camp Blanton Lake (river mile 4.3) to river mile 2.2**	**Upper Cumberland**	**4.3**	**2.2**	**2.1**
Beaverdam Creek	**Edmonson**	**KY 101-259 bridge**	**Green**	**14.0**	**7.6**	**6.4**
Cane Run	**Hart**	**River mile 6.5 to river mile 1.0**	**Green**	**6.5**	**1.0**	**5.5**
Trammel Fork	**Allen**	**Mouth to KY – TN state line**	**Green**	**30.15**	**0.0**	**30.15**
Lick Creek	**Simpson**	**Mouth to headwaters**	**Green**	**9.9**	**0.0**	**9.9**
Peter Creek	**Barren**	**Candy Fork to Dry Fork**	**Green**	**18.5**	**11.6**	**7.9**
Caney Fork	**Barren**	**Source to river mile 0.85**	**Green**	**6.6**	**0.0**	**6.6**
Clifty Creek	**Todd**	**Little Clifty Creek to Sulphur Lick**	**Green**	**13.2**	**7.7**	**5.5**
Clifty Creek	**Grayson**	**Barton Runt to Western KY Pkwy**	**Green**	**17.2**	**7.3**	**9.9**
E. Fork Little Barren River	**Metcalfe**	**Red Lick Creek to Flat Lick Creek**	**Green**	**20.2**	**19/0**	**1.2**
Elk Lick C						
Falling Timber Creek	**Metcalfe**	**Land use change to headwaters**	**Green**	**15.5**	**7.0**	**8.5**
Fiddlers Creek	**Breckinridge**	**Mouth to headwaters**	**Green**	**5.8**	**0.0**	**5.8**
Forbes Creek	**Christian**	**Mouth to UT**	**Green**	**3.9**	**0.0**	**3.9**
Gasper River	**Logan**	**Clear Fork to Wiggington Creek**	**Green**	**35.2**	**17.0**	**18.2**
Goose Creek	**Casey, Russell**	**Mouth to Little Goose Creek**	**Green**	**8.1**	**0.0**	**8.1**
Green River, UT	**Adair**	**Land use change to headwaters**	**Green**	**3.2**	**0.8**	**2.4**
Halls Creek	**Ohio**	**UT to headwaters**	**Green**	**12.1**	**9.6**	**2.5**
Linders Creek	**Hardin**	**Mouth to Sutzer Creek**	**Green**	**7.7**	**0.0**	**7.7**
Little Short Creek	**Grayson**	**Mouth to headwaters**	**Green**	**3.0**	**0.0**	**3.0**

Table 3.1.4-1 (cont.). Reference reach streams in Kentucky with those in bold to emphasize those in streams upper Cumberland – 4-Rivers and Green – Tradewater BMUs

Stream	County	Location	Basin	Start Segment	End Segment	Total Miles
Lynn Camp Creek	**Hart**	**Mouth to Lindy Creek**	**Green**	**8.3**	**0.0**	**8.3**
McFarland Creek	**Christian, Hopkins**	**Grays Branch to UT**	**Green**	**4.8**	**1.4**	**3.4**
Meeting Creek	**Hardin**	**Little Meeting Cr to Petty Branch**	**Green**	**13.8**	**5.2**	**8.3**
Muddy Creek	**Ohio**	**Land use change to headwaters**	**Green**	**15.5**	**13.0**	**2.5**
North Fork Rough River	**Breckinridge**	**Buffalo Creek to Reservoir dam**	**Green**	**28.1**	**23.44**	**4.66**
Pond Run	**Breckinridge, Ohio**	**Lane use change to headwaters**	**Green**	**6.8**	**1.4**	**5.4**
Rough River	**Hardin**	**Linders Creek to Vertrees Creek**	**Green**	**147.8**	**136.9**	**10.9**
Russell Creek	**Adair, Russell**	**Mouth to headwaters**	**Green**	**68.1**	**0.0**	**68.1**
Sixes Creek	**Ohio**	**Wild Branch to headwaters**	**Green**	**7.5**	**2.0**	**5.5**
Sulphur Branch	**Edmonson**	**Mouth to headwaters**	**Green**	**2.0**	**0.0**	**2.0**
W. Fork Pond River	**Christian**	**UT to East Branch Pond River**	**Green**	**22.5**	**12.7**	**9.8**
UT, White Oak Creek	**Adair**	**Hovious Road Crossing to SR 76**	**Green**	**3.0**	**0.4**	**2.6**
Goose Creek	**Casey**	**Off Brock Rd**	**Green**	**14.6**	**5.6**	**9.0**
Drennon Creek	Henry	Flat Bottom Rd crossing	Kentucky	10.5	11.9	1.4
Indian Creek	Carroll	Hwy 36 bridge	Kentucky	0.55	4.7	4.15
Musselman Creek	Grant	Lawrenceville – Keefer Rd bridge	Kentucky	2.6	8.4	5.8
Clear Creek	Woodford	Hifner Rd bridge, 2.1 mi S of Mortonsville	Kentucky	4.1	19.0	14.9
Station Camp Creek	Estill	Off KY Hwy 1209 at Estill-Jackson County boundary	Kentucky	19.0	22.3	3.3
South Fork Station Camp Creek	Jackson	KY 89 bridge	Kentucky	5.3	48.6	43.3
Sturgeon Creek	Lee	Off Sturgeon Creek Rd	Kentucky	4.0	31.1	27.3
[a]Sulphur Creek	Franklin	Mouth to headwaters	Kentucky	0.0	5.2	5.2
Gladie Creek	Menifee	0.2 mi upstream of bridge	Kentucky	0.0	8.4	8.4
East Fork Indian Creek	Menifee	1 mi upstream of West Fork Indian Cr	Kentucky	0.0	8.5	8.5
Wolfpen Branch	Menifee	at SR 715 bridge	Kentucky	0.0	3.3	3.3
Right Fork Buffalo Creek	Owsley	Off Whoopflarea Rd	Kentucky	0.0	11.2	11.2
Buffalo Creek	Owsley	Side road along mainstem	Kentucky	0.8	12.8	12.0
Coles Fork	Breathitt	in Robinson Forest	Kentucky	0.0	5.5	5.5
[a]Craig Creek	Leslie	Mouth to UT	Kentucky	0.0	2.7	2.7
Elisha Creek	Leslie	Elisha Creek Road	Kentucky	0.95	3.3	2.35
Line Fork Creek	Letcher	off KY 160	Kentucky	17.3	27.5	10.2
[a]Rock Lick Creek	Jackson	Mouth to headwaters	Kentucky	0.0	9.6	9.6
Blackwater Creek	Morgan	Eaton Creek to Greasy Creek	Licking	3.8	11.4	7.6
Brushy Fork	Pendleton	Mouth to headwaters	Licking	0.0	5.7	5.7
North Fork Licking River	Morgan	Cave Run L. backwaters to Devils Fk	Licking	14.2	9.9	4.3
Bucket Branch	Morgan	Leisure – Paragon Rd bridge	Licking	0.0	1.9	1.9
Devils Fork	Morgan	KY 711 bridge	Licking	0.0	7.8	7.8
Grovers Creek	Pendleton	Kincaid L. backwaters to UT	Licking	3.4	0.5	2.9
Big Sinking Creek	Carter	KY 986 bridge	Little Sandy	15.2	10.7	4.5
Arabs Fork	Elliott	KY 1620 bridge	Little Sandy	4.7	0.0	4.7
Big Caney Creek	Elliott	Grayson L. backwaters to headwaters	Little Sandy	14.9	0.0	14.9
Big Sinking Creek	Carter, Elliott	SR 986 to Clay and Arab forks	Little Sandy	15.2	10.7	4.5
Laurel Creek	Elliott	Carter School Rd Bridge	Little Sandy	14.4	7.6	6.8

Table 3.1.4-1 (cont.). Reference reach streams in Kentucky with those in bold to emphasize those in streams upper Cumberland – 4-Rivers and Green – Tradewater BMUs

Stream	County	Location	Basin	Start Segment	End Segment	Total Miles
Meadow Branch	Elliott	Mouth to headwaters	Little Sandy	1.4	0.0	1.4
Middle Fork Little Sandy R.	Elliott	Mouth to Sheepskin Branch	Little Sandy	3.6	0.0	3.6
Nichols Creek	Elliott	Green Branch to headwaters	Little Sandy	1.9	0.0	1.9
Jackson Creek	**Graves**	**Basin**	**Mississippi**	**2.6**	**0.0**	**2.6**
Obion Creek	**Hickman**	**Hurricane Creek to Little Creek**	**Mississippi**	**35.5**	**25.2**	**10.3**
Big Sugar Creek	**Gallatin**	**I-71 to headwaters**	**Ohio**	**3.6**	**1.0**	**3.6**
Corn Creek, UT	**Trimble**	**Mouth to headwaters**	**Ohio**	**2.0**	**0.0**	**2.0**
Crooked Creek	**Crittenden**	**Rush Creek to City Lake Dam**	**Ohio**	**25.6**	**17.5**	**8.1**
Double Lick Creek	**Boone**	**Mouth to land use change**	**Ohio**	**1.4**	**0.0**	**1.4**
Garrison Creek	**Boone**	**Mouth to headwaters**	**Ohio**	**4.1**	**0.0**	**4.1**
Kinniconick Creek	**Lewis**	**McDowell Creek to headwaters**	**Ohio**	**50.4**	**5.1**	**45.3**
Massac Creek	**McCracken**	**Mouth to headwaters**	**Ohio**	**1.7**	**0.0**	**1.7**
Middle Fork Massac Creek	**McCracken**	**Hines Road to headwaters**	**Ohio**	**6.2**	**3.15**	**3.05**
Second Creek	**Boone**	**Private road crossing to headwaters**	**Ohio**	**2.9**	**0.5**	**2.4**
W. Fork Massac Creek	**McCracken**	**River mile 5.4 to river mile 3.2**	**Ohio**	**5.4**	**3.2**	**2.2**
Yellowbank Creek	**Breckinridge**	**Ohio River backwaters to headwaters**	**Ohio**	**11.4**	**1.4**	**10.0**
Yellowbank Creek	**Breckinridge**	**Cart-Manning Crossing Rd Wildlife Management Area**	**Ohio**	**11.9**	**4.4**	**7.5**
Grindstone Creek	**Calloway**	**Mouth to headwaters**	**Tennessee**	**2.3**	**0.0**	**2.3**
Soldier Creek	**Marshall**	**HWY 58 bridge**	**Tennessee**	**5.3**	**2.6**	**2.7**
Panther Creek	**Calloway**	**KY 280 bridge**	**Tennessee**	**6.0**	**0.0**	**6.0**
Panther Creek, UT	**Graves**	**Mouth to headwaters**	**Tennessee**	**2.1**	**0.0**	**2.1**
Soldier Creek	**Marshall**	**Mouth to South Fork Soldier Cr.**	**Tennessee**	**5.3**	**0.0**	**5.3**
Trace Creek	**Graves**	**Mouth to Neely Branch**	**Tennessee**	**3.0**	**0.0**	**3.0**
W. Fork Clarks River	**Graves/ Marshall**	**Soldier Creek to Duncan Creek**	**Tennessee**	**22.7**	**19.7**	**3.0**
Wildcat Creek	**Calloway**	**Ralph Wright Road crossing to headwaters**	**Tennessee**	**6.7**	**3.5**	**3.2**
Blood River	**Calloway**	**Grubbs Lane bridge; O.75 mi E of State Line Rd**	**Tennessee**	**15.65**	**12.2**	**3.45**
East Fork Flynn Fork	**Caldwell**	**Land use change to headwaters**	**Tradewater**	**4.6**	**2.5**	**2.1**
Piney Creek	**Caldwell**	**L. Beshear backwaters to headwaters**	**Tradewater**	**10.2**	**4.5**	**5.7**
Piney Creek, UT	**Caldwell**	**Mouth to headwaters**	**Tradewater**	**0.0**	**2.9**	**2.9**
Tradewater River	**Christian, Hopkins**	**Dripping Springs Br to Buntin Lake dam**	**Tradewater**	**131.1**	**123.2**	**7.9**
Sandlick Creek	**Christian**	**Camp Creek to headwaters**	**Tradewater**	**9.0**	**4.9**	**4.1**
Sandlick Creek, UT	**Christian**	**Mouth to headwaters**	**Tradewater**	**1.4**	**0.0**	**1.4**
Cedar Creek	Bullitt	Mouth to Greens Branch	Salt	5.1	0.0	5.1
Chaplin River	Washington	Thompson Creek to Cornishville	Salt	53.7	40.1	13.6
Harts Run	Bullitt	Mouth to headwaters	Salt	2.3	0.0	2.3
Wilson Creek	Bullitt	Mt. Carmel Church Rd, first crossing	Salt	17	12.2	4.8
Salt Lick Creek	Marion	Mouth to headwaters	Salt	8.4	0.0	8.4
Sulphur Creek	Anderson	Mouth to Cheese Lick and Brush Cr	Salt	9.7	0.0	9.7
Otter Creek	Larue	0.1 mi below West Fork, Herbert-Howell Rd	Salt	2.7	1.7	1.0
Overalls Creek	Bullitt	Mouth to headwaters	Salt	1.3	0.0	1.3
West Fork Otter Creek	Larue	Mouth to headwaters	Salt	4.7	0.0	4.7

Wilson Creek	Bullitt, Nelson	Mouth to headwaters	Salt	17.0	0.0	17.0

Table 3.1.4-1 (cont.). Reference reach streams in Kentucky with those in bold to emphasize those in streams upper Cumberland – 4-Rivers and Green – Tradewater BMUs

Stream	County	Location	Basin	Start Segment	End Segment	Total Miles
Crooked Creek	**Trigg**	**Lake Barkley backwaters to headwaters**	**Lower Cumberland**	**9.4**	**4.0**	**5.4**
Donaldson Creek	**Trigg**	**Craig Branch to UT**	**Lower Cumberland**	**10.3**	**6.9**	**3.4**
Elk Fork	**Todd**	**Kentucky – Kentucky stateline to Dry Branch**	**Lower Cumberland**	**9.8**	**7.5**	**2.3**
Sugar Creek	**Livingston**	**Lick Creek to UT**	**Lower Cumberland**	**6.7**	**2.1**	**4.6**
West Fork Red River	**Christian**	**Carter Rd bridge**	**Lower Cumberland**	**26.5**	**16.3**	**10.2**
Whippoorwill Creek	**Logan**	**Mouth to Vicks Branch**	**Lower Cumberland**	**13.0**	**0.0**	**13.0**

[a]Candidate stream or segment included in the 2008 triennial review package

Watershed Biological Monitoring Program (WBMP). The WBMP monitored streams in a fixed-station network so long-term trends can be tracked in targeted fourth and fifth order watersheds (Figures 3.1.1-2; 3.1.1-3; and 3.1.1-4). Targeted stations were placed in the downstream reaches of fourth, fifth and occasionally sixth order (on 1:24,000 scale USGS topographic maps) watersheds. One reason for this choice was that the number of these watersheds closely matched the available monitoring resources. Another favorable attribute of this design was that these watersheds were more hydrologically accurate and uniform in size than 11-digit watersheds. A biosurvey was conducted at these stations which typically include two or three biological communities (macroinvertebrates, fishes, or diatoms) to determine the condition of wadeable streams. Also collected are nutrient samples (unionized ammonia, nitrite-nitrate, total phosphorus, and total Kjeldahl-nitrogen) in addition to bulk water quality variables (total suspended solids, chlorides, sulfates, alkalinity, hardness and total organic carbon). Physical measurements were also made at time of water quality sample collection; a multiparameter probe is used to measure pH, temperature, DO, percent DO saturation and specific conductance. Often, ambient water quality data were collected at these locations on a monthly basis during the BMU-cycle. These stations are revisited every five years.

Table 3.1.4-2. Candidate reference reach and exceptional streams and segments in the Kentucky as defined in 401 KAR 5:030.

Basin	Stream	Segment Description	Segment Mile Points	Total Miles	Lat-Long (downstream)	Lat-Long (upstream)	County	Reference[a] or Exceptional[b]
Kentucky	Rock Lick Cr.	Mouth to Headwaters	0.0-9.6	9.6	37.53939 -84.01041	37.54762 -83.15038	Jackson	Reference
	Lower Howard Cr.	Mouth to West Fork	0.0-2.7	2.7	37.91802 -84.27256	37.93369 -84.26951	Clark	Exceptional
	Backbone Cr.	Mouth to Scrabble Cr.	0.0-1.7	1.7	38.33978 -84.99688	38.32024 -84.99354	Franklin, Henry, Shelby	Reference
	Sulphur Creek	Mouth to Headwaters	0.0-5.2	5.2	38.28752 -84.80238	38.30562 -84.74529	Franklin	Reference
	Craig Creek	Mouth to UT	0.0-2.7	2.7	37.97908 -84.8206	37.98133 -84.78473	Woodford	Reference
	Bear Branch	Above Sediment Pond to Headwaters	0.3-1.2	0.9	37.13216 -83.10139	37.12607 -83.11332	Perry	Exceptional
	Billey Fork	Land Use Change to Headwaters	2.6-8.8	6.2	37.6796 -83.7965	37.7254 -83.7250	Lee	Exceptional
	Cherry Run	Mouth to Boyd Run	0.0-0.9	0.9	38.21315 -84.48522	38.21726 -84.47431	Scott	Exceptional
	Gilberts Creek	Mouth to UT	0.0-2.6	2.6	37.97366 -84.81863	37.97570 -84.85231	Anderson	Exceptional
	Honey Branch	Mouth to Headwaters	0.0-1.4	1.4	37.01756 -83.35499	37.00966 -83.37233	Leslie	Exceptional
	Katies Creek	Mouth to Headwaters	0.0-4.0	4.0	37.0349 -83.5399	37.0177 -83.5964	Clay	Exceptional
	Little Middle Fk. Elisha Creek	Mouth Headwaters	0.0-0.75	0.75	37.08173 -8351566	37.08750 -83.50586	Leslie	Exceptional
	*Middle Fk. Kentucky River	Hurts Creek to Greasy Creek	75.9-84.3	9.4	37.15529 -83.3704	37.07655 -83.39242	Leslie	Exceptional
	Right Fk. Elisha Cr.	Mouth to Headwatrs	0.0-3.3	3.3	37.08165 -83.51802	37.07601 -83.46882	Leslie	Exceptional
	Shaker Creek	Near Mouth to Shawnee Run	0.1-1.4	1.3	37.84727 -84.76563	37.84374 -84.76813	Mercer	Exceptional
	*Spruce Branch	Mouth to Headwaters	0.0-1.0	1.0	36.95706 -83.53100	36.94948 -83.51666	Clay	Exceptional

Table 3.1.4-2 (cont.). Candidate reference reach and exceptional streams and segments in Kentucky as defined in 401 KAR 5:030.

Basin	Stream	Segment Description	Segment Mile Points	Total Miles	Lat-Long (downstream)	Lat-Long (upstream)	County	Reference[a] or Exceptional[b]
Kentucky (cont.)								
	Steeles Run	Mouth to UT	0.0-4.2	4.2	38.11101 -84.62885	38.06734 -84.59552	Fayette	Exceptional
	UT of Jacks Creek	Mouth to Headwaters	0.0-1.15	1.15	37.85200 -84.36529	37.85177 -84.34607	Madison	Exceptional
	UT of Kentucky R.	Near Mouth to Land Use Change	0.1-1.4	1.3	38.219102 -84.87777	38.23174 -84.8624	Franklin	Exceptional
	Billy Fork	Land use change to Headwaters	2.6-8.8	6.2	37.6796 -83.7965	37.7254 -83.7965	Lee, Estill	Exceptional
	Bill Oak Branch	Mouth to Headwaters	0.0	0.6	37.33551 -83.5671	37.33128 -83.55523	Scott	Exceptional
	Deep Ford Branch	Above Pond to Headwaters	0.3-1.3	1.0	37.19057 -83.34776	37.17650 -83.34856	Leslie	Exceptional
	Laurel Fork	Cortland Fork to Big Branch	2.1-3.8	1.7	37.34753 -83.56477	37.32790 -83.56767	Owsley	Exceptional
	Mikes Branch	Mouth to Headwaters	0.0-0.7	0.7	37.33903 -83.56345	37.33533 -83.55167	Owsley	Exceptional
	Watches Fork	Mouth to Headwaters	0.0-0.9	0.9	37.34461 -83.56242	37.34010 -83.54701	Owsley	Exceptional
Licking	Blanket Creek	Mouth to UT	0.0-1.9	1.9	38.65566 -84.28532	38.64272 -84.29925	Pendleton	Exceptional
	Bowman Creek	Mouth to UT	0.0-6.0	6.0	38.89256 -84.44239	38.89406 -84.50250	Kenton	Exceptional
	Cedar Creek	Mouth to N. Br. Cedar Cr.	0.0-1.7	1.7	38.47647 -84.12288	38.49034 -84.10738	Robertson	Exceptional
	Flour Creek	Mouth to UT	0.0-2.2	2.2	38.78912 -84.34401	38.80180 -84.32476	Pendleton	Exceptional
	Sawyers Fork	Mouth to Headwaters	0.0-3.3	3.3	38.84833 -84.54032	38.82288 .84.58491	Kenton	Exceptional
	*Slabcamp Creek	Mouth to Headwaters	0.0-3.7	3.7	38.09982 -83.32884	38.13916 -83.3548	Rowan	Exceptional

Table 3.1.4-2 (cont.). Candidate reference reach and exceptional streams and segments in Kentucky as defined in 401 KAR 5:030.

Basin	Stream	Segment Description	Segment Mile Points	Total Miles	Lat-Long (downstream)	Lat-Long (upstream)	County	Reference[a] or Exceptional[b]
	Slate Creek	Mouth to Mill Creek	0.0-13.6	13.6	38.21835 -83.69838	38.11217 -83.74668	Bath	Exceptional
	UT of Shannon Cr.	Mouth to Headwaters	0.0-2.2	2.2	38.55437 -83.93334	38.52929 -83.94689	Mason	Exceptional
	Little South Fork	Land Use Change to Headwaters	1.2-5.9	4.7	38.82221 -84.74072	38.82854 -84.68526	Boone	Exceptional
	Doctors Fork	Mouth to Begley Branch	0.0-3.8	3.8	37.67561 -84.968583	37.64618 -84.99938	Boyle	Exceptional
Salt								
	Doctors Fork	Mouth to Begley Branch	0.0-3.8	3.8	37.67561 -84.96858	37.64618 -84.99938	Boyle	Exceptional
	Indian Creek	Mouth to UT	0.0-0.9	0.9	37.85122 -84.97894	37.85371 -84.96872	Mercer	Exceptional
	Lick Creek	Mouth to 0.1 mi below dam	0.0-4.1	4.1	37.81839 85.21555	37.82618 85.16398	Washington	Exceptional
	UT of Glens Creek	Mouth to Headwaters	0.0-2.3	2.3	37.85772 -85.12185	37.85101 -85.08582	Washington	Exceptional
Green								
	Big Brush Creek	Brush Creek to Poplar Grove Branch	13.0-17.4	4.4	37.3855 -85.59256	37.42748 -86.57935	Green	Exceptional
	Elk Lick Branch	Duck Lick Creek to Barren Fork & Edgaer creeks	3.6-11.8	8.2	36.96006 -86.98834	36.91647 -86.97282	Allen	Exceptional
	Puncheon Creek	Mouth to KY/TN State Line	0.0-4.3	4.3	36.67659 -86.00208	36.62955 -86.00534	Allen	Exceptional
	Thompson Branch	Mouth to KY/TN State Line	0.0-1.5	1.5	36.66124 -86.50066	36.65203 -86.47974	Simpson	Exceptional
Cumber-land	Left Fork Fugitt Creek	Mouth to Headwaters	0.0-1.5	1.5	36.92528 -83.04509	36.936699 -83.02486	Harlan	Exceptional

[a]Reference Reach streams and segments have the greatest biological integrity and intact habitat of those streams in a given bioregion. [b]Exceptional streams and segments must score "excellent" on the MBI or KIBI based on 50th %tile for Mountain, Bluegrass and Pennyroyal and 75th %tile for the Mississippi Valley-Interior River Lowlands bioregions. *Streams that are already Exceptional in 401 KAR 5:030 but are proposed for a segment change based on new data, or to conform to NHD mile points.

Nonpoint Source Program (NPSP). The Kentucky Nonpoint Source Pollution Control Program's goal is to protect the quality of Kentucky's surface and groundwater from NPS pollutants, abate NPS threats and restores degraded waters to the extent that water quality standards are met and beneficial uses are supported. The NPSP is achieving this through federal, state, local and private partnerships which promote complementary, regulatory and non-regulatory nonpoint source pollution control initiatives at both statewide and watershed levels.

Nonpoint source pollution is sometimes referred to as runoff or diffuse pollution. Unlike pollution from industrial and sewage treatment plants, NPS pollution is caused by rainfall or snowmelt moving over and through the ground. As the runoff moves, it picks up and carries away natural and human-produced pollutants, finally depositing them into lakes, rivers, wetlands, coastal waters and even underground sources of drinking water. These pollutants include:

- Excess fertilizers, herbicides and insecticides from agricultural lands and residential areas;
- Oil, grease and toxic chemicals from urban runoff and energy production;
- Sediment from improperly managed construction sites, crop and silviculture lands and eroding streambanks;
- Acid mine drainage; and
- Bacteria and nutrients form livestock, pet wastes and faulty septic systems.

Atmospheric deposition and hydromodification are also sources of nonpoint source pollution. NPS pollution is the number one contributor to water pollution in Kentucky.

Monitoring of streams impacted by NPS pollutants follows KDOW standard protocol; each biosurvey conducted at these stations typically included two biological communities, macroinvertebrates and fishes, to determine the condition of wadeable streams. Also collected were nutrient samples (un-ionized ammonia, nitrite-nitrate, total phosphorus, and total Kjeldahl-nitrogen) in addition to bulk water quality variables (total suspended solids, chlorides, sulfates, alkalinity, hardness and total organic carbon). Physical measurements were also made at time of water quality sample collection; a

multiparameter probe was used to measure pH, temperature, DO, percent DO saturation and specific conductance.

Probabilistic Monitoring Program (PMP). KDOW conducts random biosurveys of streams across the commonwealth. Each year the Probabilistic Biosurvey Program Coordinator selects watersheds on the 8-digit HUC level to be monitored in a particular BMU. The target population is all wadeable streams 1st through 5th order within the HUCs of each BMU. Then a request is sent to EPA's National Health and Environmental Research Laboratory, Office of Research and Development, Corvallis, Oregon, where the EMAP Design Group uses EPA's Reach File Version 3 – Alpha (RF3-Alpha) as a sampling frame. A frequency table is established for the population candidate streams (based on stream order) across the HUCs and based on those frequencies, a random, weighted survey design is utilized to determine those streams and locations of the sample point for the study. A sample size of 50 sites with approximately an equal number in each of the four categories: 1st, 2nd, 3rd, 4th + 5th. An oversample of 200% (100 sites) for a total of 150 sites including the base sites are derived per study. This oversample provides reserve samples for alternative sites when those initial sites do not conform to target population parameters (e.g. non-wadeable, miss-mapped features), are inaccessible due to safety concerns, or to which access is denied by landowners. Standard protocol dictates that surrogate stream sample sites be selected sequentially from the oversample population when replacement of an initial sample site is necessary. Since the random design is weighted, no regard to replacement of an initial sample site with one of equivalent Strahler order is required.

A biosurvey of the macroinvertebrate community was conducted to determine condition of wadeable streams; additionally, the probabilistic program collected nutrient samples (un-ionized ammonia, nitrite-nitrate, total phosphorus, and total Kjeldahl-nitrogen) in addition to bulk water quality variables (total suspended solids, chlorides, sulfates, alkalinity, hardness and total organic carbon). Physical measurements were also made at time of water quality sample collection; a Hydrolab® multiparameter probe was used to measure pH, temperature, DO, percent DO saturation and specific conductance. For this reporting cycle, probabilistic network consisted of 100 sites (50 stations per BMU (upper Cumberland – 4-Rivers and Green – Tradewater). Those sites, along with

stream names, may be identified in Tables 3.1.4-3; 3.1.4-4; and 3.1.4-5 and Figures 3.1.4-1; 3.1.4-2; and 3.1.4-3.

Table 3.1.4-3. Key to stream names sampled and assessed in the upper Cumberland River basin using probabilistic methodology.

4. Cane Creek	33. Big Clifty
5. Otter Creek	36. Little Poplar Creek
6. Poor Fork	37. Little South Fork
8. Sugar Camp Creek	40. Buck Creek
9; Sulphur Creek	44. Pond Creek
14. Little Laurel River	46. [a]UT Helton Branch
17. Ferris Fork Creek	49. Salt Lick Creek
20. Bear Creek	54. Roaring Fork
22. Sinking Creek	55. [a]UT Big Creek
24. Line Creek	58. Bee Lick Creek
26. Cloverlick Creek	59. Spring Creek
28. Roundstone Creek	64. Straight Creek
30. Bull Run	

[a]UT= Unnamed tributary

Table 3.1.4-4. Key to stream names sampled and assessed in lower Cumberland, Mississippi, Ohio and Tennessee rivers basins using probabilistic methodology.

1. Dry Fork	43. Middle Branch North Fork Little River
3. Hurricane Creek	47. Livingston Creek
7. Rockhouse Creek	48. Claylick Creek
11. [a]UT Mud Creek	51. [a]UT Whippoorwill Creek
13. Bayou de Chien	53. Truman Creek
15. Sinking Fork	61. [a]UT Brush Creek
18. Little White Creek	76. West Fork Clarks River
19. Little Cypress Creek	79. South Fork Bayou de Chien
23. [a] UT to [a]UT Tennessee River	81. Cypress Creek
21. Terrapin Creek	82. Claylick Creek
29. West Fork Mayfield Creek	84. Middle Fork Massac Creek
31. Dry Fork Creek	
39. [a]UT Clarks River	
42. Clarks River	

[a]UT= Unnamed tributary

Figure 3.1.4-1. Probabilistic biological survey sites in the upper Cumberland River basin (key to stream names on previous page).

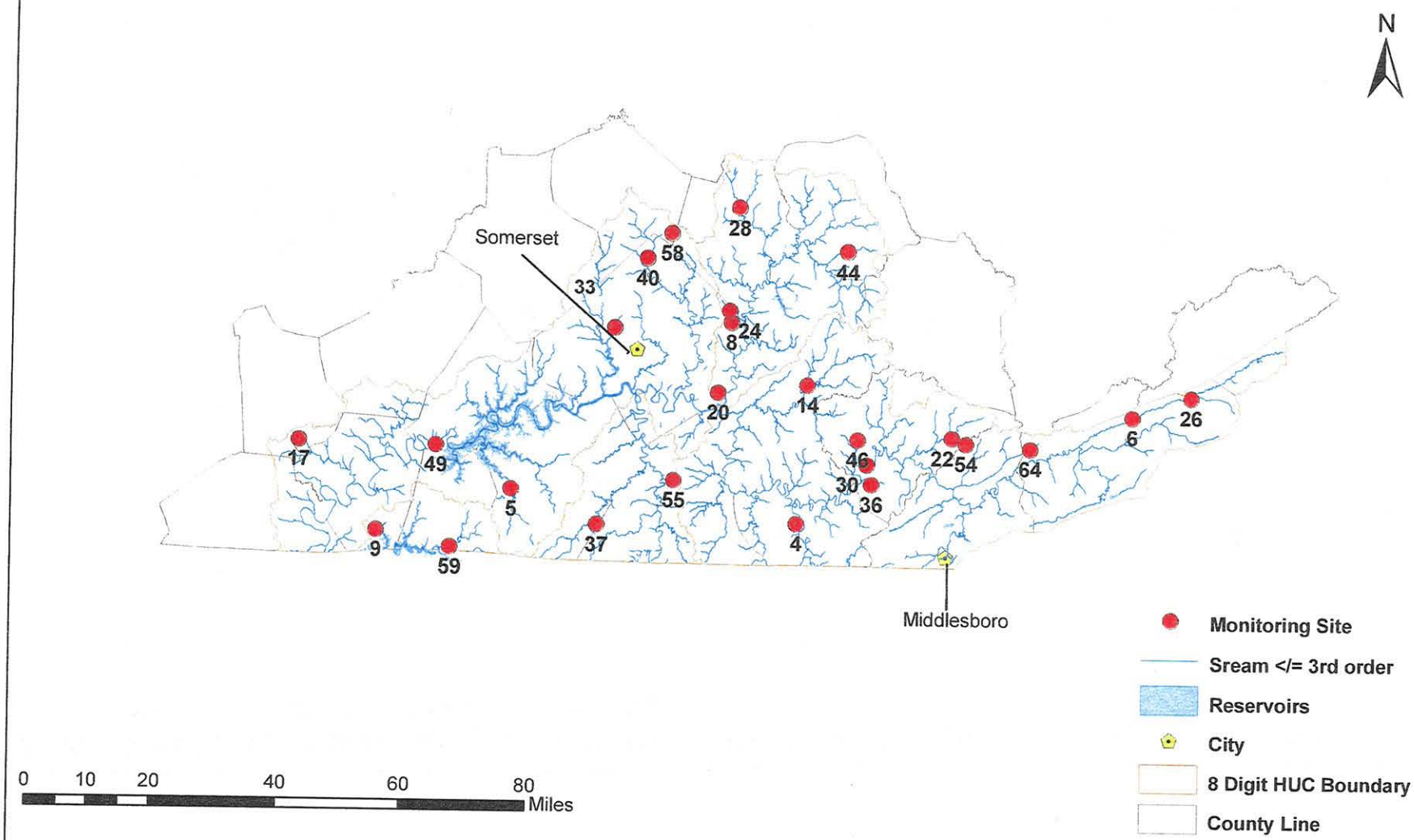


Figure 3.1.4-2. Probabilistic biological survey sites in the lower Cumberland, Mississippi, Ohio and Tennessee rivers basin (key to stream names on previous page).

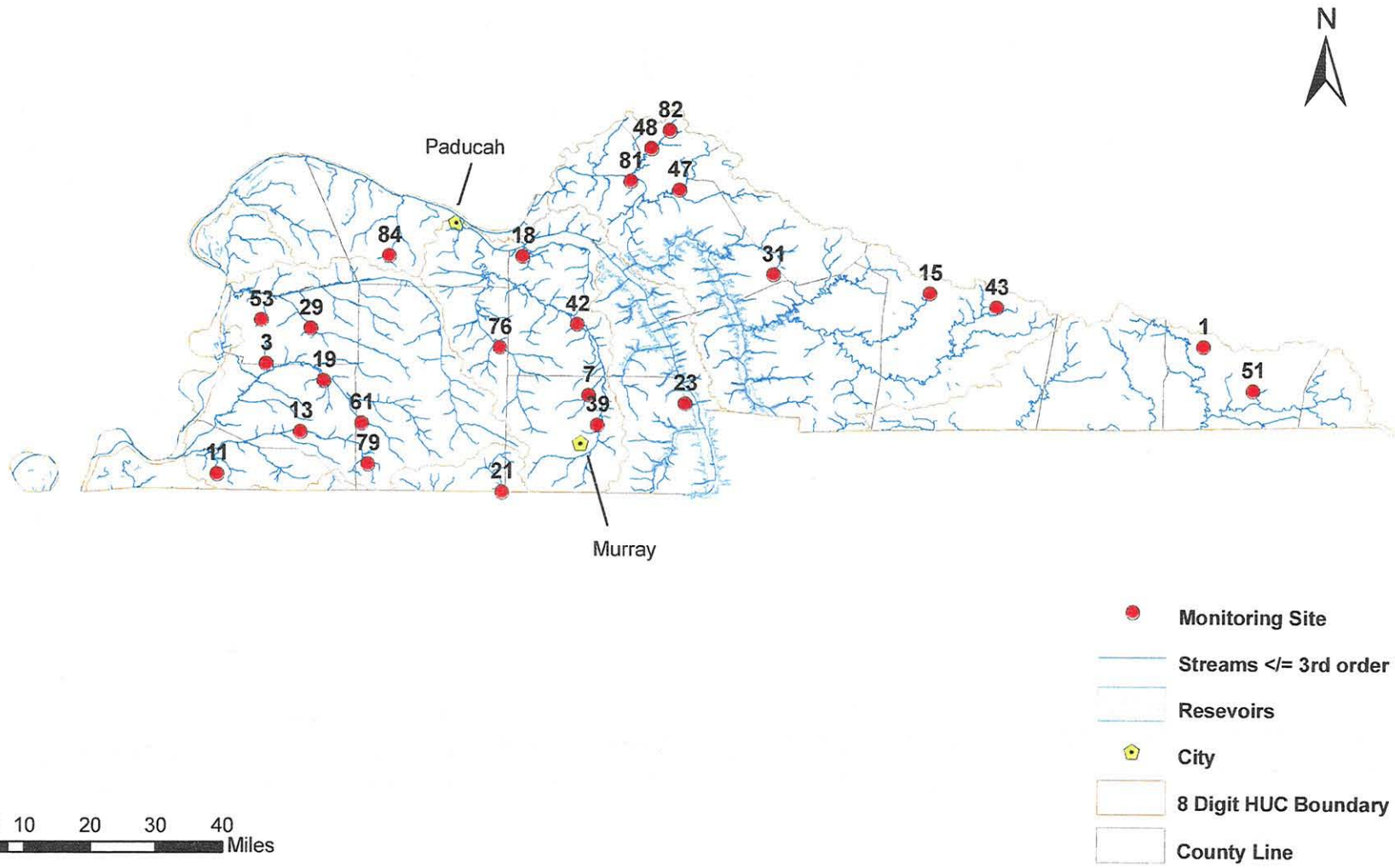
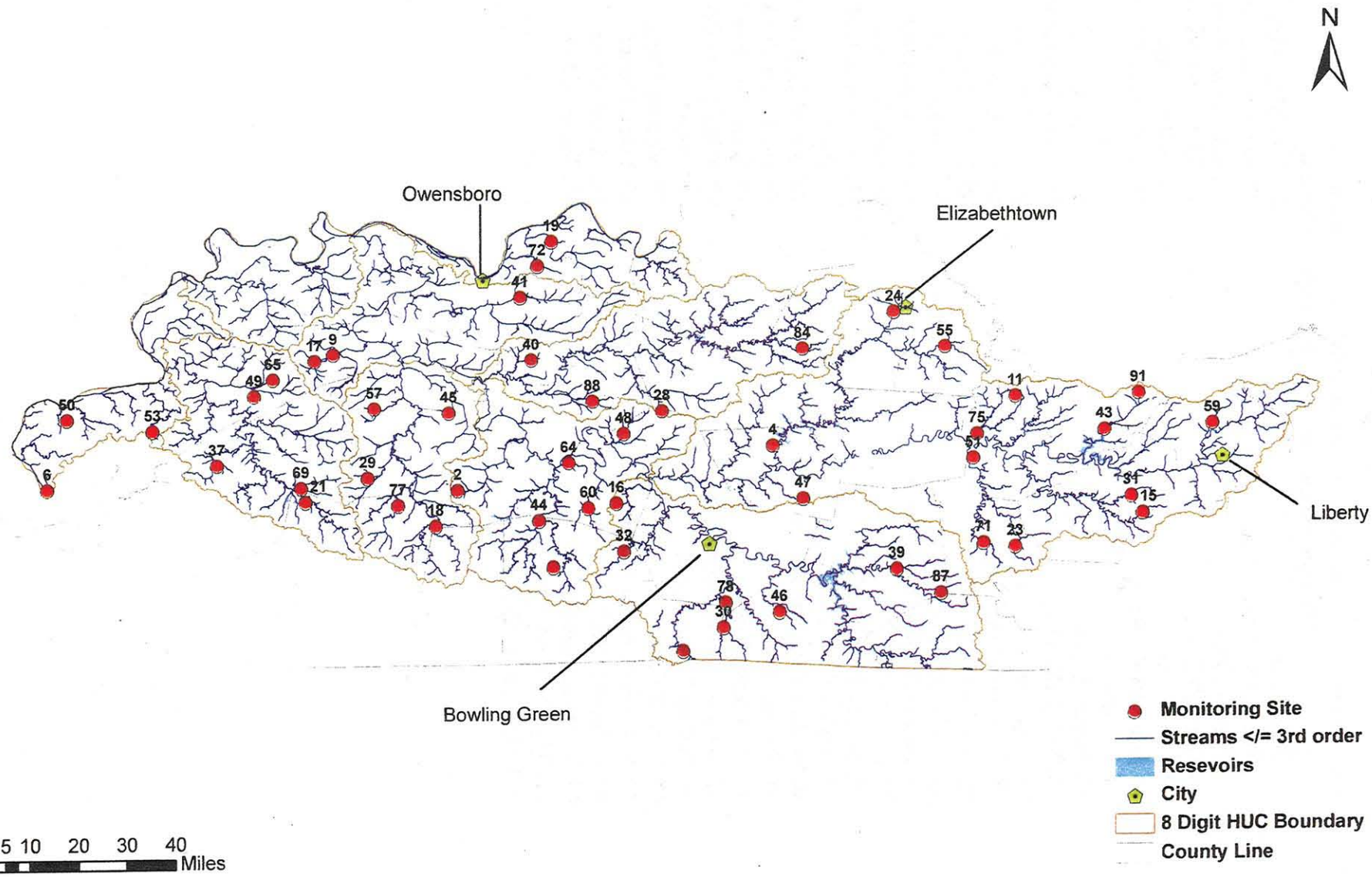


Table 3.1.4-5. . Key to stream names sampled and assessed in Green – Tradewater Basin Management Unit using probabilistic methodology.

1. Pond Creek	46. West Bays Fork
2. West Fork Drakes Creek	47. Beaverdam Creek
4. Dismal Creek	48. Indian Camp Creek
6. Dyerhill Creek	49. [a]UT to [a]UT Slover Creek
9. Deer Creek	50. Sadler Creek
11. Black Snake Branch	51. South Fork Little Barren River
14. Laurel Creek	53. Crooked Creek
15. Russell Creek	55. North Fork Nolin River
16. [a]UT Richland Creek	57. [a]UT Elk Creek
17. Deer Creek	59. Brush Creek
18. Buck Fork Pond River	60. Muddy Creek
19. Blackford Creek	64. Panther Creek
21. Tradewater River	65. Fredricks Ditch
23. East Fork Little Barren River	69. Buffalo Creek
24. Billy Creek	71. South Fork Little Barren River
28. Brushy Pond Creek	72. Wright Bell Ditch
29. [a]UT Drakes Creek	75. Big Brush Creek
30. Middle Fork Drakes Creek	77. West Fork Pond River
31. Sulphur Creek	78. Middle Fork Drakes Creek
32. UT Gasper River	84. Meeting Creek
37. West Fork Donaldson Creek	87. Eaton Branch
39. Falling Timber Creek	88. Muddy Creek
40. Barnett Creek	91. Tallow Creek
41. North Fork Panther Creek	
43. Robinson Creek	
44. Wolf Lick Creek	
45. [a]UT Cypress Creek	

[a]UT= Unnamed tributary

Figure 3.1.4-3. Probabilistic biological survey sites in the Green - Tradewater Basin Management Unit (key to stream names on previous page).



3.1.5 Lake and Reservoir Monitoring

Lakes and reservoirs are monitored over the growing season (April – October) for determination of trophic state using the Carlson Trophic State Index (TSI) for chlorophyll *a*. This method of determining trophic state of lakes is convenient as it allows lakes to be ranked numerically according to increasing trophic state (oligotrophic, mesotrophic, eutrophic, and hyper-eutrophic). The growing season average TSI value is used to rank each lake.

Water quality and physical measurements were made in spring, summer and fall, typically with an interval of six to eight weeks to allow sufficient time for seasonal changes to occur. All publicly accessible lakes and reservoirs made-up the population of these resources monitored in Kentucky. Water quality variables, including nutrients (un-ionized ammonia, nitrite-nitrate, total phosphorus, TKN, total soluble phosphorus, soluble reactive orthophosphate and total organic carbon), chlorophyll *a*, standard variables (total suspended solids, chlorides, sulfates, alkalinity and hardness) and a profile of water column physical data (DO, pH, temperature and specific conductance) were monitored at each station per lake. The majority of these waters were small, usually several hundred acres or less in surface area; therefore, one sample station in the forebay was sufficient to characterize the status of the smaller lakes and reservoirs.

The Louisville and Nashville COE districts cooperated in monitoring their dam projects in each BMU. Additionally, Kentucky Lake, a Tennessee Valley Authority (TVA) dam project, was monitored by that agency. The water quality parameters described above were used to determine the trophic status of each reservoir. Multiple monitoring stations were placed in these large reservoirs. Often, the major in-flow and out-flow tributaries of each reservoir were monitored for water quality as well, often including pathogen indicators for recreation support determinations. These tributary streams were assessed for aquatic life use support based on physicochemical data.

Those lakes and reservoirs monitored in the Upper Cumberland – 4-Rivers and Green - Tradewater BMUs are presented in Table 3.1.4-1. Maps of use support assessment results follow in Assessment Results, Section 3.3.

Table 3.1.5-1. Lakes and reservoirs monitored in the Upper Cumberland – 4 Rivers and Green Tradewater Basin Management Units during the 2005 and 2006, respectively.

Lake or Reservoir Name	Size (Acres)	Basin	County	Latitude (dd)	Longitude (dd)
Energy Lake	370	Lower Cumberland	TRIGG	36.86031	-88.01534
Hematite Lake	90	Lower Cumberland	TRIGG	36.89647	-88.04269
Honker Lake	190	Lower Cumberland	LYON	36.90976	-88.02869
Lake Barkley	45,600	Lower Cumberland	LYON	37.01799	-88.21527
Lake Blythe	89	Lower Cumberland	CHRISTIAN	36.92294	-87.49592
Lake Morris	170	Lower Cumberland	CHRISTIAN	36.92889	-87.45500
Arrowhead Lake	37	Mississippi River	BALLARD	37.0365	-89.12816
Burnt Pond	10	Mississippi River	BALLARD	37.04361	-89.11694
Flat Lake	38	Mississippi River	BALLARD	37.04278	-89.09889
Swan Pond	193	Mississippi River	BALLARD	37.012268	-89.117798
Beaverdam Lake	50	Ohio River	BALLARD	37.1425	-89.05417
Buck Lake	19	Ohio River	BALLARD	37.04028	-89.08917
Fish Lake	27	Ohio River	BALLARD	37.0554	-89.09434
Happy Hollow Lake	20	Ohio River	BALLARD	37.15167	-89.04553
Long Pond	56	Ohio River	BALLARD	37.02556	-89.1275
Metropolis Lake	36	Ohio River	MC CRACKEN	37.14779	-88.76665
Mitchell Lake	58	Ohio River	BALLARD	37.15167	-89.04583
Shelby Lake	24	Ohio River	BALLARD	37.18374	-89.03048
Turner Lake	61	Ohio River	BALLARD	37.17278	-89.04166
Kentucky Lake	48,100	Tennessee River	CALLOWAY	37.00326	-88.26727
Cannon Creek Lake	243	Upper Cumberland	BELL	36.68083	-83.70222
Chenoa Lake	37	Upper Cumberland	BELL	36.67583	-83.81944
Corbin City Reservoir	139	Upper Cumberland	LAUREL	36.970241	-84.120201
Cranks Creek Lake	219	Upper Cumberland	HARLAN	36.73907	-83.23758
Dale Hollow Reservoir	4300	Upper Cumberland	CLINTON	36.53709	-85.44618
Lake Cumberland	50,250	Upper Cumberland	RUSSELL	36.86607	-85.1451

Table 3.1.5-1 (cont.). Lakes and reservoirs monitored in the Upper Cumberland – 4-Rivers and Green-Tradewater Basin Management Units during the 2005 and 2006, respectively.

Lake or Reservoir Name	Size (Acres)	Basin	County	Latitude (dd)	Longitude (dd)
Lake Linville	273	Upper Cumberland	ROCKCASTLE	37.38889	-84.34444
Laurel Creek Lake	88	Upper Cumberland	MC CREARY	36.69293	-84.44283
Laurel River Reservoir	6060	Upper Cumberland	WHITLEY	36.96151	-84.26492
Martin's Fork Reservoir	334	Upper Cumberland	HARLAN	36.75	-83.26111
Tyner Lake	87	Upper Cumberland	JACKSON	37.37889	-83.91306
Wood Creek Lake	672	Upper Cumberland	LAUREL	37.21367	-84.19813
Barren River Reservoir	10,000	Green River	ALLEN	36.89233	-86.12259
Briggs Lake	19	Green River	LOGAN	36.88812	-86.83244
Campbellsville City Reservoir	63	Green River	TAYLOR	37.35649	-85.34198
Caneyville City Reservoir	75	Green River	GRAYSON	37.43921	-86.46402
Freeman Lake	160	Green River	HARDIN	37.71644	-85.86987
Grapevine Lake	50	Green River	HOPKINS	37.30552	-87.47700
Green River Reservoir	8210	Green River	TAYLOR	37.25074	-85.33757
Lake Luzerne	55	Green River	MUHLENBERG	37.21278	-87.19611
Lake Malone	826	Green River	LOGAN	37.08019	-87.03289
Lake Washburn	26	Green River	OHIO	37.51812	-86.84842
Lewisburg Lake	51	Green River	LOGAN	36.97056	-86.92667
Liberty Lake	79	Green River	CASEY	37.32237	-84.89506
Metcalfe County Lake	22	Green River	METCALFE	37.04329	-85.60969
Mill Creek Lake (Monroe County)	109	Green River	MONROE	36.68201	-85.70103
Nolin River Reservoir	5790	Green River	GRAYSON	37.27914	-86.24699
Nortonville Lake	27.4	Green River	HOPKINS	37.18085	-87.46592
Rough River Reservoir	5100	Green River	HARDIN	37.61833	-86.49972
Salem Lake	99	Green River	LARUE	37.59129	-85.71097
Shanty Hollow Lake	135	Green River	WARREN	37.1552	-86.38988

Table 3.1.5-1 (cont.). Lakes and reservoirs monitored in the Upper Cumberland – 4-Rivers and Green-Tradewater Basin Management Units during the 2005 and 2006, respectively.

Lake or Reservoir Name	Size (Acres)	Basin	County	Latitude (dd)	Longitude (dd)
Spa Lake	240	Green River	Logan	36.89571	-86.94993
Spurlington Lake	36	Green River	Taylor	37.38519	-85.25506
West Fork of Drakes Creek Reservoir	67	Green River	Simpson	36.72222	-86.5525
Carpenter Lake	64	Ohio River	Daviess	37.84587	-86.9781
Kingfisher Lake	30	Ohio River	Daviess	37.84317	-86.97757
Lake George	53	Ohio River	Crittenden	37.31034	-88.09115
Marion City Lake	38.5	Ohio River	Crittenden	37.31084	-88.09121
Mauzy Lake	84	Ohio River	Union	37.62245	-87.85535
Scenic Lake	18	Ohio River	Henderson	37.87806	-87.56222
Lake Beshear	760	Tradewater	Caldwell	37.14776	-87.68234
Lake Peewee	360	Tradewater	Hopkins	37.35011	-87.52718
Loch Mary	135	Tradewater	Hopkins	37.27343	-87.52087
Moffit Lake	49	Tradewater	Union	37.57853	-87.85481
Pennyrile Lake	47	Tradewater	Christian	37.07242	-87.66499
Providence City Reservoir	36	Tradewater	Webster	37.37583	-87.79639

3.2 Assessment Methodology

General Assessment Methods. Beginning with the 2005 electronic 305(b) report submittal, the commonwealth began assigning assessed uses, and any associated nonassessed uses, of stream segments and lakes to the appropriate category of the five reporting categories recommended by EPA (2005). Of those categories, two categories were divided to better define assessment results; categories 2B and 5B were added by KDOW to better track assessed segments. Those categories used by the commonwealth are listed in Table 3.2-1. Many waterbody segments had monitored data for only one use assessment, typically aquatic life use.

Table 3.2-1. Reporting categories assigned to surface waters during the assessment process.

Category	Definition
1	All designated uses for water body fully supporting.
2	Assessed designated use(s) is/are fully supporting, but not all designated uses assessed.
2B	Segment currently supporting use(s), but 303(d) listed & awaiting EPA approved delisting, or approved/established TMDL.
3	Designated use(s) has/have not been assessed (insufficient or no data available).
4A	Segment with an EPA approved or established TMDL for all listed uses not attaining full support.
4B	Nonsupport segment with an approved alternative pollution control plan (e.g. BMP) stringent enough to meet full support level of all uses within a specified time.
4C	Segment is not meeting full support of assessed use(s), but this is not attributable to a pollutant or combination of pollutants.
5	TMDL is required.
5B	Segment is not supporting use based on evaluated data; does not require a TMDL.

When considering waters for assessment, KDOW solicited data from a variety of entities. This included other government agencies, including state agencies (e.g. Department of Fish & Wildlife) and federal agencies such as COE, F&WS, USGS, and TVA. Also, data from universities and ORSANCO were considered.

Generally, data older than five years were not considered for assessment; however, assessment decisions were made on a case-by-case basis—not all data older

than five years were excluded from consideration. Data older than five years were considered if they were the only data available for a waterbody.

A number of causes (pollutants) in EPA's 2006 IR guidance were considered pollution rather than pollutants. A waterbody found not supporting a use and shown to be impaired by pollution, without identified pollutants, does not require a TMDL, rather an alternative plan to bring the use back to full support (Category 4B). Causes considered pollution are found in Table 3.2-2. The rationale behind pollutant vs. pollution is that a pollutant is a measurable variable, and its presence above criteria results in designated use impairment. It is the causal variable, not the indicator or response variable of one or more pollutants (sedimentation/siltation, total phosphorus, ammonia, methylmercury, etc). An example of pollution is alteration in stream-side or littoral vegetative cover, a category that in and of itself may not directly attribute to impairment or water quality degradation. The loss of this vegetative integrity can result in excess nutrients and sedimentation/siltation (pollutants) that will subsequently affect biological communities, water quality, in-stream habitat and temperature. The previous example also serves to clarify why "habitat assessment (streams)" is also considered pollution. Pollutants such as sedimentation/siltation, nutrients, or water temperature are listed with those nonsupporting segments, directly identifying the pollutant(s) and associated pollution that should be addressed to restore full use support.

The cause "habitat assessment (streams)" was the most commonly reported pollution for streams not supporting aquatic life use based on biological community results. It should be noted that streams with this identified pollution make their way on the 303(d) list since it is almost never without associated pollutants such as sedimentation/siltation because riparian vegetation to abates excess sedimentation, removes excess nutrients and ameliorates water temperature. In the uncommon circumstance where "habitat assessment (streams)" was the only reported "cause," it was recognized that pollutants had not been observed or measured that were impacting the biological community(s). In these instances the cause, "impairment unknown," was listed, which as a pollutant-surrogate, places it on the 303(d) list. In these instances more intensive investigation is needed to determine individual pollutants than the initial

Table 3.2-2. List of those causes considered pollution by the KDOW (ADB numerical codes listed).

(67) Abnormal fish histology (lesions)
(84) Alteration in stream-side or littoral vegetative covers
(85) Alterations in wetland habitats
(105) Benthic-macroinvertebrate bioassessment (streams)
(150) Chlorophyll *a*
(161) Combination benthic/fishes bioassessments (streams)
(162) Combined biota/habitat bioassessments (streams)
(181) Debris/floatable/trash
(205) Dissolved oxygen saturation
(218) Eurasian water milfoil, *Myriophyllum spicatum*
(227) Excess algal growth
(228) Fish-passage barrier
(229) Fish kills
(230) Fishes bioassessment (streams)
(243) Habitat assessment (streams)
(266) Lake bioassessment
(270) Low flow alterations
(312) Non-native aquatic plants
(313) Non-native fish, shellfish, or zooplankton
(316) Odor threshold number
(319) Other flow regime alterations
(331) Particle distribution (embeddedness)
(336) Periphyton (Aufwuchs) indicator bioassessments (stream)
(368) Secchi disk transparency
(387) Suspended algae
(402) Total organic carbon
(412) Trophic State Index
(422) *Dreissena polymorpha,* zebra mussel
(445) Abnormal fish deformities, erosions, lesions, tumors
(446) Habitat assessment (lakes/reservoirs)
(450) High flow regime
(459) Taste and odor
(460) Aquatic plants (native)
(465) Fish advisory (no restriction)
(466) Sediment screening value exceedence
(471) Bottom deposits
(477) Bacterial slimes
(478) Aquatic plants (macrophytes)
(479) Aquatic algae

biosurvey provided. In this example the waterbody or segment will be assigned to category 5 (303[d] list) with the cause, habitat assessment (streams), included in the list of impairments. It is recognized that to restore aquatic life use, pollution (e.g. riparian vegetative zone) must be rectified as part of the process in addressing the pollutant(s), in this example sedimentation/siltation.

Another group of causes considered pollution that may be recognized in stream biosurveys are those indicating non-native aquatic plants, non-native fish, shellfish, or zooplankton, for example zebra mussel, *Dreisenna polymorpha*. While these conditions are undesirable and can have a negative impact on the native plant or animal communities in a waterbody, non-natives, almost without exception, have been introduced accidentally or intentionally via commerce or recreation (ship ballasts, boating, aquarists, sportspersons [non-native trout], etc.). To develop and implement a TMDL to eliminate these non-natives would often be more damaging to the environment (e.g. biocides or mechanical removal) then leaving them in-place because they are often widespread and prevalent. For example, if the non-native carp, *Cyprinus carpio*, found in many perennial streams and reservoirs in the state, was considered a pollutant rather than pollution, a TMDL would be required to address this in thousands of stream miles and reservoir acres. These examples are instances where the occurrence of impairments considered pollution (non-natives) alone will not result in a category 5 listing, rather a category 2 listing if all biological community metrics indicate the aquatic life use is supporting.

Causes that may be indicators of nonsupport aquatic life use but are not pollutants themselves: 1) benthic macroinvertebrate bioassessment (streams); 2) chlorophyll *a*; 3) combination benthic/fishes bioassessment; 4) combined biota/habitat bioassessments (streams); 5) dissolved oxygen saturation; 6) excess algal growth; 7) fishes bioassessment (streams); 8) lake bioassessment; 9) periphyton (aufwuchs) indicator bioassessments (stream); 10) Secchi disk transparency; 11) suspended algae; 12) trophic state index; and 13) fish advisory – no restriction, are considered pollution. The KDOW uses macroinvertebrates and fishes routinely to make aquatic life use support determinations in streams. These biological indicators provided the data necessary to produce KDOW's multimetric indices through correlation with stressors resulting in the assignment of tolerance levels based on taxon, percent dominance of tolerant taxa, percent intolerant

taxa, such as Ephemeroptera (mayflies), feeding strategy (e.g. filterers or scrapers), as well as watershed drainage area which naturally influences the populations within each community. While these biological communities are robust environmental indicators of water quality and integrity of habitat, they are not pollutants, but a manifestation of those tolerant organisms exploiting conditions that will not support clean-water, intolerant populations. Through physicochemical data taken at time of biosurveys and habitat assessment (in-stream habitat and land use observations), the most detrimental pollutants are usually recognized as contributors to the degraded biological community. Most stream miles in Kentucky not supporting aquatic life use were impaired primarily by the pollutants sedimentation/siltation (habitat smothering), nutrient enrichment, and "cause unknown," in addition to pollution in the form of habitat alterations (often riparian zone related). All these pollutants affect in-stream habitat or physicochemical variables that manifest in the biological community structure. In cases where no pollutants were recognized, "cause unknown" is listed, which places the waterbody/segment in category 5, requiring a TMDL.

The total number of assessed stream miles was determined by adding the miles represented by the site-specific random survey (not extrapolated data) and the miles assessed by targeted monitoring. In other words, miles assessed by targeted monitoring in wadeable streams were included in miles assessed by the random survey ($1^{st} - 5^{th}$ Strahler order). However, results were also presented separately for targeted and random (extrapolated) total miles.

3.2.1 Aquatic Life Use

The water quality and biological data provided by the programs described in the preceding sections were used to assess use support in rivers and streams. Table 3.2.1-1 shows the designated uses of Kentucky waters and the indicators employed to make those use support determinations. Given the comprehensive suite of parameters sampled by KDOW for many stream assessments, both biological and physicochemical, a determination can typically be made as to the cause(s) and source(s) of pollutant or pollution affecting the resource. Further study during TMDL development will lead to specific definition of causes and sources. Data were categorized as "monitored" or

"evaluated." Monitored data were derived from site-specific surveys and generally no more than five years old. Typically, data older than five years were considered "evaluated," but this did not change the assessment category a waterbody and/or segment had been assigned unless there were more recent "monitored" data. In some instances where conditions were believed to have remained mostly unchanged, monitored data collected prior to 1995 were still considered valid, and waters described by these data were categorized as monitored. Additionally, data from the random survey network were used. Like the targeted stations, each random survey station was used to assess a limited reach of stream around the sample point. Few evaluated waters remain in the assessment database. Although all efforts in the watershed initiative were to gather defensible, monitored data, there were some monitoring data more than five years old, strong anecdotal information, and extrapolation of discharge data that resulted in evaluated assessments.

Water Quality Data. Chemical data collected by KDOW and others were assessed according to EPA guidance (U.S. EPA 1997). Water quality data were compared to criteria contained in Kentucky Water Quality Regulations (401 KAR 5:031). The segment fully supported WAH use when criteria for dissolved oxygen, un-ionized ammonia, temperature and pH were not met in 10 percent or less of the samples collected. Impaired, partial support was indicated if any one criterion for these parameters was not met in 11-25 percent of the samples. A segment was impaired, not supporting, if any one of these criteria was not met in more than 25 percent of the samples.

Data for mercury, cadmium, copper, iron, lead and zinc were analyzed for exceedences of acute criteria listed in state water quality standards regulations using at least three years of data. The segment fully supported WAH use if all criteria were met at stations with quarterly or less frequent sampling, or if only one exceedence occurred at stations with monthly sampling. Impaired, partial support was indicated if any one criterion was not met more than once but in less than 10 percent of the samples. The segment was impaired, not supporting if criteria were exceeded in greater than 10 percent of the samples. The assessment criteria were closely linked to the way state and federal water quality criteria were developed. Aquatic life was considered protected if, on average, the

Table 3.2.1-1. Designated uses in Kentucky waters and the indicators used to assess level of support.

Use	Aquatic Life	Recreation	Fish Consumption	[a]Drinking Water
Core Indicators	Stream: 1-3 biological communities: macroinvertebrates, diatoms and fishes Dissolved oxygen Temperature pH Specific conductance Lake/Reservoir: Dissolved oxygen Temperature pH Specific conductance Fish kills	Stream: Pathogen indicators: fecal coliform; *E. coli* pH Lakes/Reservoir: Pathogen indicators: fecal coliform or *E. coli* pH	Mercury PCBs	Inorganic chemicals Organic chemicals Pathogen indicators: fecal coliform, *E. coli*
Suplemental Indicators	Chlorophyll-*a* Trophic State Index (TSI) Secchi depth Indicator health (vigor) Chemical Sediments	Nuisance macrophytes Nuisance macroscopic algal growth Nuisance algal blooms Suspended sediment Chemical	Other chemicals of concern found in water quality standards	Odor Taste Treatment problems caused by poor water quality

[a]All core indicators are based on "at the tap" MORs received from PWS

acute criteria were not exceeded more than once every three years. Data were also compared to chronic criteria. Observations that equaled or were only slightly greater than chronic criteria were not considered to exceed water quality standards. Toxic criteria were assessed based on 12 monthly samples at the rotating watershed ambient water quality network and generally 36 samples from the primary ambient water quality network. The segment fully supported WAH use if all criteria met or exceeded only once. Impaired, partial support was assessed if any criterion was not met more than once, but in less than 10 percent of samples. The segment was impaired, not supporting if criteria were exceeded in greater than 10 percent of samples.

Biological Data (streams). Decisions about use attainment for aquatic life were primarily made using biological data obtained from monitoring programs within the KDOW and other agencies. There are a number of reasons biological data are so important in making level of support decisions for aquatic life use. Biological

communities (indicators) integrate their environment and thus serve as good indicators of the conditions (physical, chemical, and habitat) they live in. The core indicators for bioassessment are outlined in Table 3.2.1-2. Level of use support was dependent on the indicator community(s) health and integrity, with supplemental physicochemical and habitat data. These results were applied for assessment purposes as outlined in Table 3.2.1-2.

Macroinvertebrates have been used extensively in water quality monitoring and impact assessment since the early 1900s. Today, macroinvertebrates are used throughout the world in water quality assessment as environmental indicators of biological integrity, to describe water quality conditions or health of the aquatic ecosystem, and to identify causes (pollutants) of impairment. This indicator community is relatively sedentary, spending a significant portion of their life cycle in the aquatic environment. Various populations of a community are dependent on multiple habitats in the water column, occupy more than one consumer level throughout the food web (herbivores, omnivores, and carnivores) and, significantly, many sensitive taxa (benthos) live in or on the sediments of streams. These characteristics and habits make this a key indicator group of their environment. KDOW defines benthic macroinvertebrates as organisms large enough to be seen by the unaided eye, can be retained by a U.S. Standard Number 30 sieve (28 mesh/inch, 600 μm openings), and live at least part of their life cycle within or upon available substrates of a waterbody. In addition to determining use support level, biomonitoring will identify those Exceptional Waters (401 KAR 5:030) (those waters that are among the most biologically diverse and represent biological integrity to a high degree in a given bioregion) occurring across the commonwealth.

The evaluation of fish community structure is an important component of biological monitoring providing reliable assessments for the CWA, Section 305(b). The Kentucky Index of Biotic Integrity (KIBI) was developed based on reference conditions and tolerances and community feeding structure of species present. Advantages of using fish as biological indicators include their widespread distribution, utilization of a variety of trophic levels, stable populations during summer months, and the availability of extensive life history information (Karr et al. 1986).

Table 3.2.1-2. Biological criteria for assessment of warm water aquatic habitat (streams) use support[a].

Indicator	Fully Supporting	Partial Support	Nonsupport
Algae	Diatom Bioassessment Index (DBI) Classification of excellent or good; biomass similar to reference/control or STORET mean.	DBI classification of fair; increased biomass (if nutrient enriched) of filamentous green algae.	DBI classification of poor; biomass very low (toxicity), or high (organic enrichment).
Macroinvertebrates	Macroinvertebrate Bioassessment Index (MBI) excellent or good, high EPT, sensitive species present.	MBI classification of fair, EPT lower than expected in relation to available habitat, reduction in RA of sensitive taxa. Some alterations of functional groups evident.	MBI classification of poor; EPT low, TNI of tolerant taxa very high. Most functional groups missing from community.
Fishes	Index of Biotic Integrity (IBI) excellent or good; presence of rare, endangered or species of special concern.	IBI fair.	IBI poor, very poor, or no fish.

[a]Acronyms used in this table: EPT= Ephemeroptera, Plecoptera, Trichoptera; RA= relative aburdance; TNI- total number of individuals

Algal (primarily diatoms) communities are important water quality indicators, particularly as it relates to trophic status (nutrient or organic enrichment) and toxicity conditions. This indicator group is critical to the food web of streams, beginning the process of primary production through photosynthesis. The Diatom Bioassessment Index (DBI) is used to assess this indicator community.

Federally Threatened and Endangered Species. Waters with federally threatened or endangered species in November 1975 have an existing "use" of Outstanding State Resource Water, and the loss or significant decline of one of these populations constitutes an impairment of use.

Lakes and Reservoirs. Lakes and reservoirs were assessed for aquatic life by measuring several physicochemical indicators and reported fish kills. The lack of a direct biological indicator is primarily due to most of this resource being manmade, thus

supporting altered and unnatural biological communities that are composed almost exclusively of tolerant species (e.g. Tubificidae, *Chironomus* spp., *Chaoborus* spp., *Glyptotendipes* spp., etc.) that are capable of exploiting this naturally low DO-stressed environment. Thus, the core and supplemental indicators shown in Table 3.2.1-1 are of utmost importance to assure water quality conditions are suitable for supporting sportfish and associated prey fishes. Populations of these fishes are the primary concern for aquatic life use being met in these created environments. Table 3.2.1-3 outlines those criteria used in making use assessment decisions.

Trophic state was assessed in lakes and reservoirs using the Carlson Trophic State Index (TSI) for chlorophyll-*a*. This method is convenient because it allows lakes and reservoirs to be ranked numerically according to increasing eutrophy, and it also provides for a distinction between oligotrophic, mesotrophic, eutrophic, and hyper-eutrophic lakes and reservoirs. The growing season (March – October) average TSI value was used to rank each lake. Areas of lakes that exhibited trophic gradients or embayment differences often were analyzed separately.

3.2.2 Primary Contact Recreation Use Support

Fecal coliform or *Escherichia coli* and pH data were used to indicate the degree of support for primary contact recreation (PCR) (swimming) use. PCR assessment was based on six monthly grab samples collected during the recreation season of May – October. The use fully supported if the fecal coliform bacteria criterion of greater than 400 colonies per 100 mL (greater than 240 colonies per 100 mL for *E. coli*) was not met in less than 20 percent of samples; it was impaired, partial support, if either criteria were not met in 25-33 percent of samples; and impaired, nonsupport, if either criteria were not met in greater than 33 percent of samples. Secondary contact recreation (SCR) was also assessed following the same method using fecal coliform data at the concentration of greater than 2000 colonies per 100 mL. Streams with pH less than 6.0 SU or greater than 9.0 SU were considered full support if these criteria were exceeded once, but in less than 10 percent of samples collected in the recreation season; impaired, partial support, if the standard was exceeded more than once, but in less than 10 percent of the samples during

Table 3.2.1-3. Criteria for lake and reservoir use support classification.

Category	Fish Consumption	Warmwater Aquatic Habitat	Secondary Contact Recreation	Domestic Supply
Not Supporting:	(Pollutant specific)	(At least two of the following criteria)	(At least one of the following criteria)	(At least one of the following criteria)
	Methylmercury >1.00 ppm (fish tissue)	Fish kills caused by poor water quality	Widespread excess macrophyte/macro-scopic algal growth	Chronic taste and odor complaints caused by algae
	PCBs >1.9 ppm (fish tissue)	Severe hypolimnetic (deepest layer in a thermally stratified lake or reservoir) oxygen depletion	Chronic nuisance algal blooms	Chronic treatment problems caused by poor water quality
		Dissolved oxygen average less than 4 mg/L in the epilimnion (upper most layer of water in a thermally stratified lake or reservoir)		Exceeds drinking water MCL
Partially Supporting: (At least one of the following criteria)	Methylmercury >0.30 – 1.00 ppm (fish tissue)	Dissolved oxygen average less than 5 mg/L in the epilimnion	Localized or seasonally excessive macrophyte/macroscopic algal growth	Occasional taste and odor complaints caused by algae
	PCBs >0.2 ppm – 1.9 ppm (fish tissue)	Severe hypolimnetic oxygen depletion	Occasional nuisance algal blooms	Occasional treatment problems caused by poor water quality
		Other specific cause (e.g. low pH)	High suspended sediment concentrations during the recreation season	
Fully Supporting:	Methylmercury <0.30 ppm and PCBs <0.2 ppm	None of the above	None of the above	None of the above

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the recreation season; and impaired, nonsupport, if the criterion was exceeded in more than 10 percent of samples during the recreation season.

3.2.3 Other Data Sources

Discharge Monitoring Reports (DMRs). Discharge monitoring report (DMR) data, collected by Kentucky Pollutant Discharge Elimination System (KPDES) permit holders, were assessed through KDOW's permit compliance database. Depending on the relative sizes of the wastewater discharge, the receiving stream and the severity of the permit exceedences, it sometimes was possible to assess in-stream uses as nonsupporting either AL or PCR. Because in-stream data were usually not collected, stream assessments based only on DMR data were considered evaluated, not monitored, and these segments were assigned to category 5B.

Corps of Engineers (COE) Reservoir Projects. Dam projects on major streams in Kentucky were monitored with the cooperation of the COE. During the Interagency Monitoring and Planning Meeting those reservoirs in the BMU of focus were identified and a cooperative effort between KDOW and COE resulted. Reservoir water-quality variables were monitored over the growing season (March – October) as were major in-flow and out-flow tributaries of these reservoirs. Aquatic life use support level was determined using these monitored data for reservoir and monitored tributaries. The Nashville and Louisville COE districts manage those projects in Upper Cumberland – 4-Rivers BMU and Green – Tradewater BMU, respectively.

3.2.3 Fish Consumption Use Support

Fish consumption, in conjunction with aquatic life use, assesses attainment of the fishable goal of the Clean Water Act. Assessment of the fishable goal was separated into these two categories in 1992 because the fish consumption advisory does not preclude attainment of the aquatic life use and vice versa. Separating fish consumption and aquatic life use support gives a clearer picture of actual water quality conditions. Table 3.2.1-1 relates those criteria used to make fish consumption use support decisions, and Table 3.2.1-3 shows the concentrations of methylmercury and PCBs that result in a specific level of support; these concentrations apply to lakes, reservoirs and streams.

Kentucky revised its methodology for issuing fish consumption advisories in 1998 to a risk-based approach patterned after the Great Lakes Initiative. The risk-based approach generally is more conservative than the Food and Drug Administration (FDA) action levels that were used previously. For example, the FDA action level for mercury was 1.0 mg/Kg, but the risk-based number for issuing an advisory is as low as 0.12 mg/Kg. As a result of this change in methodology, a statewide advisory was issued in April 2000 for children under six and women of childbearing age to not consume more than one meal per week of any fish from Kentucky waters because of mercury. However, EPA (2001a) issued a draft mercury water quality criterion expressed as a methylmercury concentration in fish tissue of 0.30 mg/Kg. Therefore, for purposes of 305(b) reporting, waters were not considered impaired unless fish exhibited methylmercury tissue concentrations of at least 0.30 mg/Kg. In other words, the fish tissue concentration triggering the statewide advisory (0.12 mg/Kg) was considered more stringent than water quality standards.

Other than the statewide advisory for mercury explained above, the following criteria were used to assess support for the fish consumption use:

- Fully supporting- no fish consumption restrictions or bans in effect; highest species concentration $\leq$ 0.30 mg/Kg
- Impaired: Partial support- "restricted consumption," fish consumption advisory in effect for general population or a subpopulation that potentially could be at a greater cancer risk (e.g. pregnant women, children); highest species concentration > 0.30 mg/Kg – 1.00 mg/Kg. Restricted consumption was defined as limits on the number of meals consumed per unit time for one or more fish species
- Impaired: Not supporting- a no consumption fish advisory or ban in effect for general population or a subpopulation that potentially could be at greater risk, for one or more fish species, or a commercial fishing ban in effect; highest species concentration > 1.00 mg/Kg.

3.2.4 Drinking Water Supply

Drinking water use support was determined in several ways (Table 3.2.1-1). First, compliance with maximum contaminant levels (MCLs) in finished water was determined by the annual average of quarterly samples. These MCL data were gleaned from monthly operating reports (MORs) submitted to KDOW, Drinking Water Branch, from treatment facilities. Drinking water use assessments in reservoirs were supplemented by surveys of drinking water operators on any taste and odor problems and use of biocides (Table 3.2.1-1). In-stream water quality data generally were not available to assess drinking water use.

3.2.5 Causes and Sources

Causes (pollutants and pollution) and sources were categorized according to EPA guidance. Causes for primary contact recreation, fish consumption, and water supply usually were easily identified. The majority of segments or waterbodies not supporting aquatic life use were determined by biological monitoring supplemented by monitoring of select physicochemical parameters. Causes and sources of impairment may not be evident in the field and there may be other pollutants contributing to use impairment that were not listed. Once on the 303(d) list, subsequent intensive monitoring and watershed reconnaissance of land uses will more fully identify causes and sources of impairments.

3.2.6 Determination of Assessment Segments

Once an assessment was made on a waterbody, an appropriate segment or portion of the waterbody representative of the monitored area was determined. Part of this determination was based on the type of monitoring (e.g. physicochemical, biological, bacteriological, fish tissue, or lake/reservoir).

Aquatic Life, Recreation and Fish Consumption Uses. This monitoring activity occured throughout the state at the Primary Ambient Water Quality Stations (Primary Network) and in the Rotating Watershed Stations particular to the BMU cycle phase. Since the Primary Network stations are located on large streams and rivers, these assessment segments are taken downstream and upstream of significant streams entering the monitored stream. Significance of tributaries is based on the watershed area and

relative volume. Another important factor considered in defining segments is significant changes in land use, such as from a contiguous forested area to a non-forested area with fragmented riparian vegetative zone. Habitat conditions along the corridor are assessed for the same reasons as physicochemical parameters for biological communities. Since many of KDOW's PCR-SCR (recreation) monitoring locations are associated with the ambient water quality network, the same rationale is used to define these segments and typically is the same as the defined segment for the accompanying aquatic life use assessment.

Waters assessed for aquatic life use with biological community data often will be of shorter segment reach since biological indicators are typically more responsive to subtle changes in water quality as they integrate these conditions over a relatively long time. Typically the smaller the watershed, a proportionately greater segment will be defined since the conditions and influences from surrounding land use were similar and localized. In larger watersheds, typically greater than five square miles, proportionately smaller assessment segments are defined because of the increased potential of pollutant sources and habitat influences. These segments often are defined by upstream and downstream tributaries judged to be of significant drainage area to the receiving stream.

Fish consumption segments are defined in a similar method as those reaches assessed using only physicochemical or bacteria data. Many fish species are relatively far ranging, and that factor has significant consideration in defining segments. Also, with the plethora of sources, and the likelihood that much of the mercury contamination in waters comes via atmospheric deposition, relatively long reaches are often defined when making these assessments. However, significant tributaries are often used to make the upstream and downstream termini, with less consideration given to habitat for the reasons given above.

Drinking Water Use. Since this use was assessed utilizing finished water data supplied by Public Water Systems (PWS), the assessed segments were usually conservative when applied to the source water. The assessment segments were typically taken from the point of withdrawal and extended upstream one mile. A few exceptions to that rule occurred when multiple uses were assessed (e.g. fish tissue, aquatic life) in the same general area of PWS withdrawal points. Those segments were usually longer (see

section above on these use assessment segments) in order to accommodate other uses that overlapped the PWS withdrawal point. For reservoirs, the assessment was applied to the waterbody.

3.3 Use Assessment Results, 2007-2008

Section Overview. This section of the IR presents assessment results focused primarily on two BMUs, the Upper Cumberland – 4-Rivers and Green – Tradewater, which were monitored in 2005 and 2006, respectively. However, a statewide summary updating all waters and segments assessed prior to 2005 was incorporated into overall use support summaries and statistics (10,563 miles representing approximately 12 percent of stream miles at a resolution of 1:24,000 [Table 3.3.1-1]) and is presented in the following subsection. Appendix 'A' contains a table with all assessed waters and the support level per use assessed. Targeted and random biosurvey results of streams were presented with particular focus on the two BMUs of this reporting cycle. The KDOW continues to census lakes and reservoirs in the commonwealth, and trend information on these reservoirs is presented following 25 years of data related to trophic state analyses. The COE reservoirs were monitored by that agency, and the results of those data and trophic status of trends were also provided in the lakes section.

3.3.1 Statewide Assessment Results (Use Support)

Targeted Monitoring: Streams and Rivers. For this monitoring and reporting period (Upper Cumberland – 4-Rivers and Green - Tradewater BMUs) there were 563 stream segments representing 2,506 miles assessed in the former BMU and 437 stream segments totaling 2,548 stream miles in the latter BMU during the water-years of 2005-2006. These data represent years three and four of the second five-year intensive monitoring effort based on rotating BMUs. Probabilistic monitoring results are included in the targeted monitoring statistics since that method is used for both specific stream reach assessments as well as extrapolation of data for aquatic life use support in a given BMU. Miles of streams and segments that are fully supporting assessed uses (Categories 1, 2 which includes 2B) total 4,538; streams and rivers with segments not fully supporting assessed uses (Categories 4A, 4B, 4C, 5A and 5B) total 6,562 miles (Table

3.3.1-1). The uses most commonly assessed were aquatic life, primary and secondary contact recreation and drinking water. There were 9,184 total stream miles (51.5 percent) fully supporting those six designated uses (Table 3.3.1-2).

Aquatic Life Use. Nonsupport category of warm water and cold water aquatic habitat uses continues to represent the greatest number of assessed stream miles, with 4,474 combined miles (Table 3.3.1-2) representing 47 percent of stream miles assessed for aquatic life use. This increase of 8.4 percent represents an additional 733 miles compared to the 2006 IR reporting cycle (3,741 mi.) (KDOW, 2006b) The frequency of assessed miles not fully supporting is the second highest in the state (by percentage of designated use assessed miles). Compared to the 2004 305(b) report, stream miles that do not support aquatic life use have increased 1,479 miles.

Fish Consumption. The percentage of assessed stream miles that fail to support this DU is 35.3 percent (Table 3.3.1-2), compared to 58.1 percent in the 2006 IR. This is a direct effect of removing the Ohio River stream miles from the Kentucky ADB, a result of this waterbody treated as interstate waters deferring to ORSANCO's 305(b) report for the Ohio River mainstem (ORASANCO, 2008). Besides the statewide fish consumption advisory for mercury, longstanding waterbody-specific consumption advisories for fish remain in effect in several rivers and streams throughout the commonwealth (http://www.water.ky.gov/sw/advisories/). Two new waterbodies were added to the waterbody-specific consumption advisory due to both methylmercury and PCBs: Knox Creek and Fish Trap Lake, both in Pike County. Knox Creek originates in Virginia and is a tributary of Tug Fork River. Fishtrap Lake is approximately 1,100 surface acres and was formed by impounding the Levisa Fork. The fish consumption advisory includes the entire reservoir and the Levisa Fork from the reservoir backwaters to the Kentucky - Virginia state line. Virginia has a similar fish consumption advisory on Knox Creek to headwaters and a portion of Levisa Fork. The primary source of mercury entering waters is thought to be via air emissions. Because of

Table: 3.3.1-1. Size of Surface Waters assigned to reporting categories[1] for Kentucky

Waterbody Type	Category									Total	Total Segments
	1	2	2B[2]	3	4A	4B	4C	5	5B		
RIVER (MILES)	17.30	3870.11	650.70	185.10	396.68	0.00	1.30	6082.77	81.70	10,553.26	1981
FRESHWATER RESERVOIR (ACRES)	53,890.00	65,881.05	12,451.00	0.00	0.00	0.00	459.00	98,866.10	0.00	219,096.15	115
SPRING (MILES)	0.00	0.03	0.00	0.00	0.00	0.00	0.00	10.45	0.50	10.48	12
FRESHWATER LAKE (ACRES)	0.00	315.00	193.00	0.00	0.00	0.00	0.00	256.00	0.00	571.00	12
POND (ACRES)	0.00	3.30	0.00	0.00	0.00	0.00	0.00	1.50	0.00	4.80	2
FRESHWATER WETLANDS (ACRES)	0.00	0.00	0.00	324000.00	0.00	0.00	0.00	0.00	0.00	324,000.00	0

[1]Refer to Table 3.2-1 on page 47 for a definition of each reporting category
[2]"Total in State" sum does not include miles in this subcategory as these miles may also occur in other categories (i.e. 1, 2, 4B, 5 and 5B)

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Table 3.3.1-2. Individual designated use support summary for streams and rivers in Kentucky (miles)

Designated Use	Total in State	Total Assessed	Supporting-Attaining WQ Standards	Supporting-Attaining WQ Standards but Threatened	Not Supporting-Not Attaining WQ Standards	Not Assessed
Warm Water Aquatic Habitat	10,192.55	9,169.85	4,768.35	2.2	4,399.3	1,022.2
Cold Water Aquatic Habitat	365.01	360.61	285.81	0	74.8	4.4
Fish Consumption	10,553.26	1,244.8	805.0	0	439.8	9,308.46
Primary Contact Recreation	10,553.26	4,493.03	1,345.5	0	3,147.53	6,060.23
Secondary Contact Recreation	10,553.26	1,867.68	1,294.85	0	572.83	8,685.58
Drinking Water	869.25	684.35	684.35	0	0	184.9

interstate issues and complexity of identifying all sources of mercury, EPA is conducting national studies and will likely be involved in eventual efforts to calculate TMDLs and reduce mercury inputs by setting new mercury limits.

Polychlorinated biphenyls (PCBs) are man-made chemical products that are similar in structure. These chemicals are toxic and persistent in the environment. In 1976 Congress passed legislation that prohibits the manufacture, process and distribution in commerce of PCBs. Polychlorinated biphenyls contaminate fish flesh in six streams totaling 142.8 miles as listed below:

- Knox Creek from mouth at Tug Fork River to Kentucky - Virginia state line
- Levisa Fork from Fishtrap Lake backwaters to Kentucky - Virginia state line

- Mud River from Hancock Lake Dam to mouth in Logan, Butler and Muhlenberg counties
- Town Branch Creek, headwaters to mouth in Logan, Butler and Muhlenberg counties
- West Fork Drakes Creek, dam at City of Franklin to mouth in Simpson and Warren counties
- Little Bayou Creek from headwaters to mouth in McCracken County

Primary (Swimming) Contact Recreation Use. The percentage of assessed stream miles that do not support primary contact recreation (PCR) is now the highest of all uses at 70.1 percent (Table 3.3.1-2). This represents a 46.6 percent increase over 2006 number of assessed miles not supporting recreation uses. This designated use also represents the second highest number of assessed stream miles, 4,493.03 (Table 3.3.1-2). Note that this designated use applies during the recreation months of May through October.

There continues to be a number of swimming advisories on segments of streams and rivers in Kentucky. Below are the waterbodies and segments where advisories exist. Fish consumption advisories on the Ohio River may be found in Section 3.3.3. One may also access this information at: http://www.water.ky.gov/sw/advisories/swim.htm.

Upper Cumberland River Basin

- Cumberland River from SR 2014 bridge to Pineville SR 66 bridge and from SR 219 bridge to Harlan
- Martins Fork from Harlan to Cawood Water Plant
- Catrons Creek
  Clover Fork

Upper Cumberland River Basin (cont.)

- Straight Creek
- Poor Fork from Harlan to Looney Creek
- Looney Creek from mouth to Lynch Water Plant Bridge

Lower Licking River Basin

- Banklick Creek
- Threemile Creek

North Fork Kentucky River Basin

- North Fork Kentucky River upstream of Chavies to source (headwaters)

Secondary Contact Recreation Use. Secondary contact recreation designated use applies year-round, and criteria for support of this use are based on fecal coliform standard of 2000 colonies/mL in streams, lakes and reservoirs. There are 572.83 miles not supporting this use out of 1867.68 miles of streams assessed. This represents 30.7 percent of assessed waters that do not support this designated use. Compared to 2006 results, this is an increase of 50.4 percent. With the implementation of *E. coli* as the indicator organism for recreation-monitored waters, the SCR use will have decreasing number miles assessed since there are no EPA-recommended criteria based on *E. coli*. No comparison for years prior to the 2006 IR can be made as no assessments for the SCR use in flowing waters were made based on pathogens. In streams and rivers, the secondary contact recreation standard is applied to protect people from incidental water contact or partial body emersion that may occur in such activities as fishing and boating.

Drinking Water Use. Drinking water standards apply to the source water at point of intake. Drinking water use support was assessed by review of the average quarterly results for contaminants as reported in MORs (monthly operating reports that are required by the Safe Drinking Water Act). The average annual result of these quarterly data is determined for compliance purposes. The MCLs (maximum contaminant levels) are based on concentration of each contaminant in the finished product distributed for public consumption. Of those streams assessed, all were fully supporting drinking (domestic) water use.

Probability Monitoring: Aquatic Life Use. A simple question has been asked throughout the 35-year history of the Clean Water Act: "What is the condition (health) of the nation's waters?" Various studies have been undertaken to answer that question. However, findings concluded that while agencies have been good at collecting data about site-specific conditions of states' waters, there exist no data to determine the overall condition and trend of the waters on a national scale. A national study was undertaken to answer that question and related questions (Are water quality [fishable and swimmable] conditions improving? Are there new issues and threats related to aquatic ecosystem health or any successes?) to help citizens determine if more money and resources need to go toward water quality issues, or if the billions of dollars being spent to curb and control pollution is simply not working.

To begin to answer this complex question, it was determined that a statistically valid random biosurvey of the nation's streams was necessary. The EPA oversaw the development and implementation of a random design study of the nation's streams and was able to make substantive decisions concerning the ecological condition of wadeable streams in the contiguous states. The random survey may be likened to a political poll in which a random sample of likely, eligible voters in a given congressional district, or nationally in a presidential race, is polled to discover the likelihood of a particular candidate to win election. In the national survey, all eligible wadeable streams of Strahler order 1-4 in similar ecoregions, or group of similar ecoregions based on biological similarities known as bioregions, define the population from which to randomly select representative stream segments in order to draw scientifically sound conclusions on the findings of those data. The national study segregated the contiguous 48 states into three broad regions defined as West, Eastern Highlands and Lowlands (Wadeable Streams Assessment, USEPA, 2006).

The next national probabilistic study implemented by EPA is to assess the condition of the nation's lakes and reservoirs. The monitoring occurred in summer and fall 2007, and a report on the findings is scheduled for federal fiscal year 2009 (October 2008 – September 2009).

The statewide (over the initial five year BMU-cycle) random wadeable streams biosurvey was completed in the initial phase of the five-year cycle in Kentucky, is now in the second five-year cycle and will be completed at the conclusion of the 2007 water-year. Results for the first completed 5-year cycle (1998 – 2002) were presented in Table 3.3.1-3 and Figure 3.3.1-1 of the 2006 IR (KDOW, 2006b). It is anticipated that statewide results from the second phase of the BMU cycle will be presented in the 2010 IR.

Causes and Sources Related to Nonsupport of Uses. The leading causes (including pollution) for designated use nonsupport of Kentucky streams and rivers are: 1) sedimentation; 2) fecal coliform + *E. coli* (pathogens); 3) nutrient/eutrophication biological indicators; 4) habitat (streams) (pollution); and 5) cause unknown (Table 3.3.1-3). The pollutant that is no longer in the top five most prevalent pollutants in Kentucky are PCBs. This is a result of removing the Ohio River mainstem assessments from Kentucky's ADB and deferring to ORSANCO to report those assessment results in their biennial 305(b) report. The leading sources of these impairments are: 1) habitat related (other than

hydromodifications); 2) agriculture; 3) urban or municipal; 4) "source unknown;" and 5) mining (Table 3.3.1-4). For the first time, habitat related (other than hydromodifications) sources are the leading contributor of causes per assessed river mile in the commonwealth. Agriculture sources displaced "source unknown" in 2006 as the number one contributor and is now second, associated with 2,777 miles of nonsupporting streams in Kentucky. The category "Waste Disposal" has the greatest increase of miles since the last biennium, nearly fourfold increase in total miles (609 miles currently). This increase is followed closely by "Urban Municipal" and "Residential Related," each an approximate increase of 2x over the same period of time (KDOW, 2006b). These statistics are the result of grouping related sub-categories under broad categories to better reflect those significant sources that contribute to impairment of streams in the state.

Individual use support by major river basin is shown in Table 3.3.1-5. This overview of the commonwealth's major river basins shows the greatest percentage of assessed river miles not supporting aquatic life use is found in the Mississippi River Basin. The Big Sandy River has the second greatest percentage of nonsupporting miles followed by the Tradewater River basin, the lower Cumberland River basin and the Ohio River minor tributaries. Those particular basins (Mississippi, Big Sandy, lower Cumberland, Ohio, and Tradewater) are each in areas of intensive land use. The Big Sandy River Basin is one of the most intensive coal producing areas, and the lower Cumberland, Mississippi River, Ohio River minor tributaries and Tradewater River watersheds are in areas of large-scale crop production. Approximately one-third or less of assessed stream miles in the Mississippi and Big Sandy, lower Cumberland and Tradewater basins, and about 40 percent of assessed river miles in the Tradewater River basin, fully support aquatic life use (Figure 3.3.1-1).

The most problematic basins for miles of nonsupporting primary contact recreation are: Tennessee (94.4 percent); Mississippi (94.1 percent); Salt (85.6 percent); Big Sandy (83.5 percent); and Tygarts (82.2 percent) (Table 3.3.1-5). Compared to the 2006 IR, basins with an increase in percentage of assessed miles supporting PCR are the upper Cumberland, Tradewater, Tennessee and lower Cumberland (Figure 3.3.1-2). These basins (with the exception of Big Sandy) have one common denominator: widespread agriculture. The Tennessee and Mississippi basins are intensely managed for agriculture, especially row

cropping of soybeans and corn and livestock (primarily cattle) production. Data reported on in the 2004 305(b) report identified the Big Sandy River Basin as having a high percentage of stream miles not supporting PCR primarily because of the high percent of monitored streams where frequent observations were made of straight-pipes from houses that discharged both gray and black water directly into streams. The associated pathogens with the straight-pipe discharge have no effect on the aquatic life as they target warm-blooded hosts. The upper Cumberland River basin has long been a problematic area for pathogen-related water quality concerns. This region is mountainous with dense populations residing in the narrow stream valleys, the only areas suitable for human settlement and commerce. This landform does not have adequate soil types (shallow, rocky) or land available outside floodplains for proper septic treatment. However, a significant change in this region over the past 10 years has been afforded through federal grant dollars becoming available to the area for constructing regional and cluster wastewater treatment facilities. This has successfully moved communities to these treatment facilities and out of floodplain and direct river discharge of untreated sewer water from straight-pipes.

To better contrast the changes of designated use (specifically aquatic life and primary contact recreation) support to the last 305(b) cycle on a basin-scale, Figure 3.3.1-2 illustrates the relative change in designated use support between the two periods. This graph highlights that while this reporting cycle is focused on the Upper Cumberland – 4-Rivers and Green Tradewater BMUs, this report includes a comprehensive statewide update to all BMUs. Those basins that have a positive percent change (increase in full support) considering both DUs are: Green; lower and upper Cumberland; Mississippi; Tennessee; and Tradewater. The greatest decline in assessed DU is the Salt, Licking and Kentucky basins for both DUs (Figure 3.3.1-2). A sure reason for this decline is attributable to intensive TMDL-related monitoring studies in certain 303(d) listed watersheds during this 305(b) reporting cycle.

Table 3.3.1-3. Ranking of causes (pollutants) to Kentucky rivers and streams.

	Cause	Total Size
1.	Sedimentation/Siltation	3,003.67
2.	Fecal coliform + *E. coli* (pathogen indicators)	2,955.75
3.	Nutrient/eutrophication biological indicators	1,525.20
4.	Habitat assessment (streams)*	999.07
5.	Cause unknown	730.35
6.	Organic enrichment (sewage) biological indicators	721.75
7.	Total dissolved solids	704.62
8.	Physical substrate habitat alterations	478.4
9.	Other flow regime alterations*	471.9
10.	Sulfates	288.22
11.	Methylmercury	270.9
12.	pH	269.08
13.	Benthic-macroinvertebrates bioassessment (streams)*	257.60
14.	Turbidity	219.55
15.	Iron	213.40
16.	Particle distribution (embeddedness)	210.50
17.	Specific conductance	150.25
18.	Phosphorus (total)	139.10
19.	Oxygen, dissolved*	118.35
20.	Polychlorinated biphenyls	94.30
21.	PCB in fish tissue	74.40
22.	Total suspended solids (TSS)	73.45
23.	Alteration in stream-side or littoral vegetative covers*	64.80
24.	Chloride	64.75
25.	Nitrate/nitrite (nitrite + nitrate as N)	61.60
25.	Mercury in fish tissue	61.60
27.	Lead	61.40
28.	Aquatic algae*	49.20
29.	Copper	48.10
30.	Dissolved oxygen saturation*	47.20
31.	Nonative fish, shellfish or zooplankton	44.70
32.	Temperature, water*	41.95
33.	Fishes bioassessment (streams)*	41.60
34.	Cadmium	40.20
35.	Ammonia (un-ionized)	33.90
36.	Total Kjeldahl nitrogen (TKN)	14.40
37.	Zinc	11.80
38.	Mercury	11.40
39.	Non-native aquatic plants*	10.10
40.	Nitrogen (total)	9.50
41.	Aquatic plants (macrophytes)*	9.20
42.	Chloride	8.60
43.	BOD, carbonaceous	8.10
44.	Manganese	7.70

Table 3.3.1-3 (cont.). Ranking of causes (pollutants) to Kentucky rivers and streams.

Cause	Total Size
45. Ethylene glycol	6.90
46. Nickel	3.60
47. Chromium (total)	2.60
48. Nitrates	0.20

*Pollution rather than pollutants

Table 3.3.1-4. Probable sources of impairment to Kentucky rivers and streams.

Source Categories	Miles
Habitat Related (other than hydromodification)	
Loss of riparian habitat	1335.4
Channelization	611.7
Streambank modifications/destabilization	526.2
Site clearance (land development or redevelopment)	222.4
Dredging (e.g. navigation channels)	140.1
Habitat modification – other than hydromodification	14.1
Category total	2,849.9
Agriculture	
Unspecified	1177.7
Non-irrigated crop production	659.7
Crop production (crop land or dry land)	369.3
Managed pasture grazing	189.2
Grazing in riparian or shoreline zones	117.4
Irrigated crop production	84.9
Rangeland grazing	82.5
Animal feeding operations (NPS)	41.6
Manure runoff	21.9
Unrestricted cattle access	15.6
Permitted runoff from confined animal feeding operations (CAFOS)	5.0
Crop production with subsurface drainage	4.5
Dairies (outside milk parlor areas)	3.6
Specialty crop production	3.6
Category total (agriculture)	2,776.5
Urban or Municipal	
Municipal point source discharges	829.7
Discharges from municipal separate storm sewer systems (MS4)	611.7
Urban runoff/storm sewers	360.4
Unspecified urban stormwater	342.6
Sanitary sewer overflows (collection system failures)	240.3
Wet weather discharges (point source and combination of stormwater, SSO or CSO)	50.6
Municipal (urbanized high density area)	77.7

Table 3.3.1-4 (cont.). Probable sources of impairment to Kentucky rivers and streams.

Source Categories	Miles
Impervious surface/parking lot runoff	25.4
Combined sewer overflows	6.5
Category total	2,544.9
Source Unknown (total)	2,342.5
Mining	
Surface mining	756.0
Subsurface (hardrock) mining	239.7
Coal mining	239.6
Acid mine drainage	131.8
Impacts from abandoned mine lands (inactive)	129.0
Heap-leach extraction mining	78.5
Coal mining (subsurface)	43.2
Mine tailings	21.0
Dredge mining	12.8
Reclamation of inactive mining	7.4
Sand/gravel/rock mining or quarries	6.6
Reclamation of inactive mining	5.9
Category total (mining)	1,671.5
Residential Related	
Package plant or other permitted small flows discharges	443.0
On-site treatment systems (septic systems and similar decentralized systems)	358.7
Sewage discharges in unsewered areas	118.4
Rural (residential areas)	75.8
Unspecified domestic waste	74.3
Residential districts	13.3
Category total	1,083.5
Waste Disposal	
Inappropriate waste disposal	440.8
Landfills	155.3
Septage disposal	8.7
Illegal dumps or other inappropriate waste disposal	4.4
Category total	609.2

Table 3.3.1-4 (cont.). Probable sources of impairment to Kentucky rivers and streams.

Source Categories	Miles
Miscellaneous	
Other recreational pollution sources	20.0
Wet weather discharges (non-point source)	17.1
Drought-related impacts	14.9
Sources outside state jurisdiction or borders	7.4
Drainage/filling/loss of wetlands	4.8
Off-road vehicles	4.5
Other spill related impacts	2.5
NPS pollution from military base facilities (other than port facilities	2.6
Golf courses	4.8
Category total	527.4
Erosion and Sedimentation	
Post-development erosion and sedimentation	310.9
Channel erosion/incision from upstream hydromodifications	53.2
Sediment resuspension (contaminated sediment)	33.9
Erosion from derelict land (barren land)	15.8
Sediment resuspension (clean sediment)	11.6
Category total	425.4
Silviculture	
Silviculture activities	157.8
Silviculture harvesting	146.6
Woodlot site management	43.6
Woodlot site clearance	37.5
Permitted silvicultural activities	9.0
Silviculture reforestation	6.6
Category total	401.1
Transportation	
Highway/road/bridge runoff (non-construction related)	273.3
Highways, roads, bridges, infrastructure (new construction)	90.3
Airports	1.7
Category total	365.3
Industrial	
Industrial point source discharge	89.7
Industrial/commercial site stormwater discharge (permitted)	79.0
Unpermitted discharge (industrial/commercial wastes)	21.4
Commercial districts (industrial parks)	4.8
Category total	194.9

Table 3.3.1-4 (cont.). Probable sources of impairment to Kentucky rivers and streams.

Source Categories	Miles
Fuel or Energy Related (other than coal)	
Petroleum/natural gas activities	31.2
Petroleum/natural gas production activities (permitted)	13.7
Category total	44.9
Hydromodifications: dams or impoundments (stream flow)	
Dam or impoundment	22.2
Impacts from hydrostructure flow regulation/modification	14.2
Upstream impoundments (e.g. NRCS structures)	3.6
Category total	40.0

Table 3.3.1-5. Number of river miles assessed and level of support by use in each major river basin. Those basins in bold type are emphasized in this reporting cycle.

Basin	Total Assessed	Supporting	Partially Supporting	Not Supporting
Big Sandy				
Aquatic Life	644.4	210.8	274.8	159.7
Fish Consumption	66.6	48.4	15.3	0.0
Primary Contact Rec.	288.1	95.2	21.0	219.5
Secondary Contact Rec.	48.0	0.0	2.5	45.5
Drinking Water	48.1	48.1	0.0	0.0
Green River				
Aquatic Life	**1869.8**	**1075.6**	**440.3**	**354.0**
Fish Consumption	**338.3**	**176.2**	**101.0**	**61.1**
Primary Contact Rec.	**1043.3**	**422.3**	**206.9**	**424.2**
Secondary Contact Rec.	**616.4**	**362.3**	**81.6**	**172.5**
Drinking Water	**274.5**	**255.4**	**0.0**	**0.0**
Kentucky River				
Aquatic Life	1835.9	1053.6	569.3	213.0
Fish Consumption	326.4	176.3	138.9	11.2
Primary Contact Rec.	903.0	208.8	160.6	533.6
Secondary Contact Rec.	428.5	405.6	5.9	17.0
Drinking Water	169.0	169.0	0.0	0.0
Licking River				
Aquatic Life	756.6	390.1	223.6	143.0
Fish Consumption	55.4	55.4	0.0	0.0
Primary Contact Rec.	476.1	149.4	75.5	251.3
Secondary Contact Rec.	155.7	115.1	39.9	0.7
Drinking Water	36.3	36.6	0.0	0.0
Little Sandy				
Aquatic Life	210.7	108.3	85.9	16.5
Fish Consumption	25.6	25.6	0.0	0.0
Primary Contact Rec.	62.3	60.6	0.0	1.7
Secondary Contact Rec.	0.0	0.0	0.0	0.0
Drinking Water	14.3	14.3	0.0	0.0

Table 3.3.1-5 (cont.). Number of river miles assessed and level of support by use in each major river basin. Those basins in bold type are emphasized in this reporting cycle.

Basin	Total Assessed	Supporting	Partially Supporting	Not Supporting
Lower Cumberland				
Aquatic Life	**354.9**	**135.1**	**126.8**	**90.4**
Fish Consumption	**48.8**	**39.4**	**9.4**	**0.0**
Primary Contact Rec.	**179.2**	**50.2**	**38.6**	**93.0**
Secondary Contact Rec.	**2.4**	**0.0**	**2.4**	**0.0**
Drinking Water	**33.2**	**33.2**	**0.0**	**0.0**
Mississippi River				
Aquatic Life	**275.7**	**57.6**	**117.4**	**100.7**
Fish Consumption	**93.9**	**93.9**	**0.0**	**0.0**
Primary Contact Rec.	**63.2**	**3.7**	**12.2**	**47.25**
Secondary Contact Rec.	**5.4**	**0.0**	**0.0**	**5.4**
Drinking Water	**0.0**	**0.0**	**0.0**	**0.0**
Ohio River (minor tribs)				
Aquatic Life	**489.7**	**203.1**	**144.5**	**142.2**
Fish Consumption	**29.6**	**22.4**	**0.0**	**7.2**
Primary Contact Rec.	**159.1**	**60.3**	**12.6**	**86.2**
Secondary Contact Rec.	**79.4**	**60.9**	**0.0**	**18.5**
Drinking Water	**0.0**	**0.0**	**0.0**	**0.0**
Salt River				
Aquatic Life	1070.6	664.2	250.3	156.1
Fish Consumption	73.3	47.0	14.3	12.0
Primary Contact Rec.	471.6	67.8	119.0	284.8
Secondary Contact Rec.	247.2	228.0	0.0	19.2
Drinking Water	5.2	5.2	0.0	0.0
Tennessee River				
Aquatic Life	**295.1**	**143.5**	**98.9**	**52.8**
Fish Consumption	**26.4**	**15.1**	**11.3**	**0.0**
Primary Contact Rec.	**109.7**	**6.2**	**39.0**	**64.5**
Secondary Contact Rec.	**0.0**	**0.0**	**0.0**	**53.6**
Drinking Water	**0.0**	**0.0**	**0.0**	**0.0**

Table 3.3.1-5 (cont.). Number of river miles assessed and level of support by use in each major river basin. Those basins in bold type are emphasized in this reporting cycle

Basin	Total Assessed	Supporting	Partially Supporting	Not Supporting
Tradewater River				
Aquatic Life	**292.8**	**110.4**	**71.6**	**110.8**
Fish Consumption	**0.0**	**0.0**	**0.0**	**0.0**
Primary Contact Rec.	**145.9**	**36.4**	**0.0**	**109.5**
Secondary Contact Rec.	**105.4**	**34.8**	**17.0**	**53.6**
Drinking Water	**0.0**	**25.8**	**0.0**	**0.0**
Tygarts Creek				
Aquatic Life	113.3	96.2	16.0	1.1
Fish Consumption	56.3	10.6	0.0	45.7
Primary Contact Rec.	55.6	9.9	0.0	45.7
Secondary Contact Rec.	0.0	0.0	0.0	0.0
Drinking Water	10.6	10.6		0.0
Upper Cumberland				
Aquatic Life	**1320.3**	**835.2**	**254.3**	**230.9**
Fish Consumption	**104.55**	**91.9**	**12.4**	**0.0**
Primary Contact Rec.	**535.7**	**184.9**	**51.6**	**299.2**
Secondary Contact Rec.	**178.6**	**88.6**	**4.0**	**86.0**
Drinking Water	**86.5**	**86.5**	**0.0**	**0.0**

Figure 3.3.1-1. Aquatic life and primary (swimming) contact recreation use support by major river basins in Kentucky.

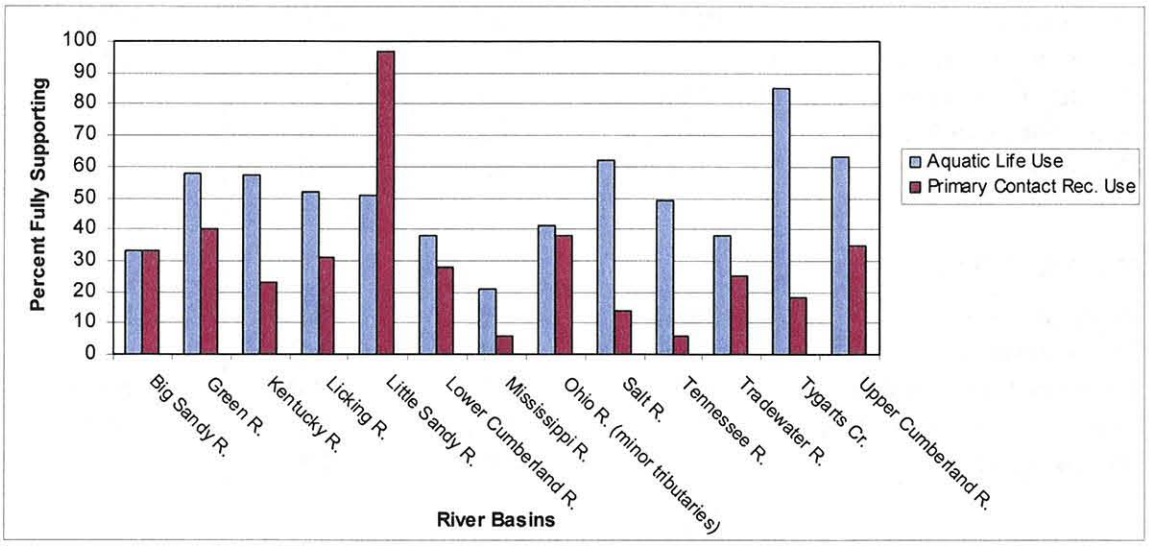
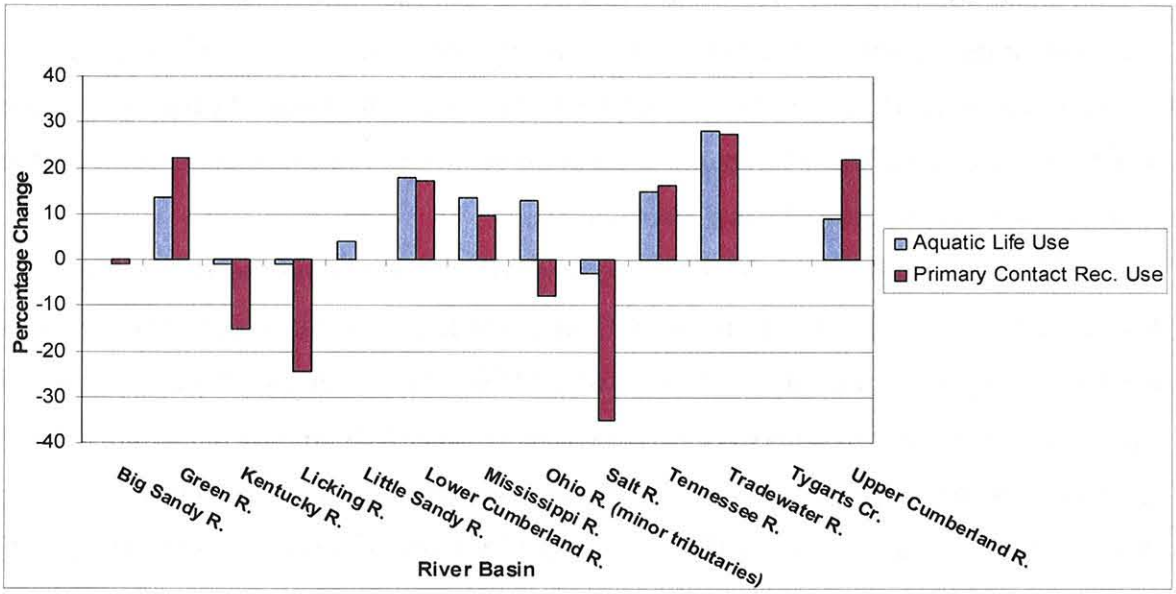


Figure 3.3.1-2. Percent change regarding full support level (based on stream miles) in major Kentucky river basins between 2006 and 2008 305(b) cycle.



3.3.2 Use Assessment Results for 305(b) Reporting Cycle 2007 and 2008

Upper Cumberland – 4-Rivers BMU. This BMU is divided in two primary basins, the upper Cumberland River in southeast and south Kentucky and 4-Rivers in south-central and west Kentucky. The Cumberland River basin rises in southeast Kentucky near the Kentucky – Virginia border in Letcher County on the southeast slope of Pine Mountain. It drains much of southeast Kentucky, enters Tennessee below Burkesville, Kentucky, then re-enters the commonwealth in west Kentucky just west of Fort Campbell military base, discharging (30,441 cubic feet per second) into the Ohio River near Smithland after flowing 687 miles from the source waters. The entire drainage basin is 18,081 square miles and drains parts of Kentucky and Tennessee. The Cumberland and Tennessee rivers parallel each other, and both discharge into the Ohio River within nine linear miles of each other.

The diverse physiographic characteristics of these two portions of the BMU have influenced the ecoregions and diversity of plants and animals immensely. These two regions of the state are characterized by low mountains (Black Mountain elevation 4,145 ft.) and high plateau in the upper Cumberland River watershed transitioning to cypress swamps, bottomland hardwoods and coastal plain regions in southwest and west Kentucky where these rivers discharge, draining a region bound roughly from north to south from southwest New York to north Alabama and east to the southern Appalachian provence of

Virginia. The upper Cumberland River basin drains approximately 6,250 square miles and overall drains approximately 18,000 square miles in Kentucky and Tennessee. The mainstem of the Cumberland River is approximately 700 miles (1,127 km) long. Major tributaries (in Kentucky) include: 1) South Fork; 2) Little South Fork; 3) Rockcastle River; and 4) Red River. Principal Kentucky cities in the basin are: Harlan; Middlesboro; Corbin; London Somerset; Burkesville; and Hopkinsville.

The Mississippi, Ohio and Tennessee rivers complete that portion of this BMU known as "4-Rivers" (including the lower Cumberand River basin). These are large rivers; the Tennessee River is the largest tributary of the Ohio. The Tennessee River drains 40,876 square miles covering portions of seven southeastern states as it courses along 652 river miles draining physiographic regions as diverse as the Blue Ridge Mountains to coastal plain where it discharges into the Ohio River near Paducah. The Ohio River discharges into the Mississippi River near Cairo, Illinois at river mile 981. It is the largest tributary of the Mississippi with an average discharge volume of 281,000 cubic feet per second draining 189,422 square miles of watershed extending from New York to Alabama. This river represents an aquatic climatic transition zone as it courses along the periphery of the humid subtropical and humid continental climatic zones integrating fauna and flora of both zones. The Mississippi River is the largest river in the US, both in system length (2,320 miles) and drainage area (1,151,000 square miles). It flows along Kentucky's western border with Missouri for 68 miles.

Following are highlights of data and statistical analyses related to the two BMUs of emphasis for this particular 305(b) cycle, both targeted and probability-based water quality and biosurveys to determine aquatic life use and other monitoring results as they relate to each of the four designated uses. Appendix 3.A contains a complete table of monitoring results for each specific water body and segment as related to streams and rivers. This table contains all significant information in abbreviated form providing a quick reference for each assessed water body or segment, the level of support, pollutants, related and sources. For refinement to the degree of use support, nonsupport miles were further subdivided into partial support and nonsupport categories based on physicochemical, MBI or KIBI scores and are reflected in this 305(b) assessment. This assists KDOW and the public in recognizing the relative degree of potential pollutant and habitat impacts on each system.

Appendix 3.B contains reach indexing maps of these assessment results based on NHD 1:24,000 scale data for this BMU.

Causes, Sources and Land Uses. Causes (pollutants) and sources of pollutants or pollution particular to the Upper Cumberland – 4 Rivers BMU are listed in Table 3.3.2-1. The upper Cumberland and lower Cumberland River have similar causes and sources of impairment even though the two "basins" drain different physiographic provinces and varied drainage land uses particular to each portion of the basin. These physiographic regions between the upper and lower basins have differing landscape and geologic characteristics. The upper basin drains approximately 5,200 square miles within Kentucky, primarily in the Cumberland Plateau and Mountains physiographic region, which encompasses about 10,500 square miles. This region is a highly dissected plateau with steep slopes and narrow sinuous valleys. The geologic stratigraphy is composed mainly of sandstone, shale and coal. Thus, the pH is slightly lower in this region (decidedly so on the south slope of Pine Mountain) as compared to most of the state with less buffering capacity of those waters. The primary land uses in this region are deep and surface mineral (coal) extraction, forest-related activities and small-scale livestock grazing, with small cities dotting the landscape in the valleys. The limestone strata are primarily in that portion of this basin that flows through the eastern Pennyroyal. This landscape is rugged, as it is the foothills of the Cumberland Plateau, having fertile broad bottomland in the river valleys where most of the agriculture is practiced. The terrain has significant karst with sinkholes, caves and underlying streams that increases the sensitivity of the watersheds to surface uses. In landscapes of significant resource extraction, sedimentation and dissolved solids (specific conductance) and pH are often the prevailing pollutants as vegetation is removed and bare soil and geologic strata are exposed. Elevated total dissolved solids are a particular concern in these waters that often have low buffering capacity and are naturally infertile. In areas of significant land disturbance and exposure of geologic strata, an abundance of ions from minerals such as iron, magnesium and calcium are liberated into the water column, along with other metals. These three impairments of issue within the BMU, along with related habitat disruption or loss, account for 487 miles of the 843 miles (58 percent) impacted by the top five pollutants in the upper Cumberland basin (Table 3.3.2-1). The mentioned significant land uses in this basin are reflected in identified

sources of the pollutants. The top three sources are loss of riparian habitat, surface mining and legacy coal extraction; however, the largest portion of pollutant-sources identified went unrecognized and thus is listed as "source unknown" (38 percent) (Table 3.3.2-1).

The lower Cumberland basin is composed of one HUC (05130205) with a drainage area of 1,351 square miles. This watershed is located in the western Pennyroyal Physiographic Region. The landscape is of similar type, although the topography is less rugged and mean elevations are lower with less karstic conditions. Land use is primarily agriculture, with a significant acreage cultivated for corn and soybean production; livestock grazing occurs to a lesser degree. Recreation related uses are associated with Lake Barkley, a large COE reservoir created by damming the mainstem Cumberland River, and adjacent Land Between the Lakes recreation area (US Forest Service). This reservoir located in west Kentucky and Tennessee has 57,920 total water-surface acres with 42,780 water-surface acres in Kentucky. The largest city in this basin is Hopkinsville, with nearby Fort Campbell Military Base to the south. Identified pollutants for this basin are primarily pathogens (bacteria), sedimentation/siltation and nutrient/eutrophication biological indicators, constituting 73 percent of affected stream mileage (Table 3.3.2-1). Primary sources of these pollutants are identified as agriculture, source unknown and crop production, which represents 73 percent of sources identified per affected stream mile (Table 3.3.2-1).

The remainder of this BMU covers the Jackson Purchase region, an area bound on the west by the Mississippi River, north by the Ohio River and east by the Tennessee River. This region is alluvial with loess soils deposited from glaciated areas to the north. Geologically the region is part of the Mississippi River delta, associated with the Gulf Coastal Plain of the southeast US that extends from the mouth of the Mississippi River up to the mouth of the Ohio River. The primary land use on this broad floodplain is row cropping, primarily corn and soybeans. Much of the natural systems of this area have been altered by this intensive agricultural use, particularly the draining of swamps and bottomland hardwoods for crop production.

Table 3.3.2-1. Number of assessed river miles of the top five causes and sources in the major river basins within the 4-Rivers BMU and Green-Tradewater Rivers BMU.

River Basin	Miles		Miles
Lower Cumberland			
Causes		*Sources*	
Pathogens	129.0	Agriculture	320.4
Sedimentation/Siltation	124.1	Source Unknown	197.6
Nutrient/Eutrophication Biological Indicators	108.3	Crop Production (Crop Land or Dry Land)	170.2
Cause Unknown	77.7	Municipal Point Source Discharges	138.5
Organic Enrichment (Sewage) Biological Indicators	53.0	Non-irrigated Crop Production	117.6
Mississippi River			
Sedimentation/Siltation	177.35	Channelization	251.7
Other Flow Regime Alterations	76.8	Loss of Riparian Habitat	239.4
Pathogens	64.95	Agriculture	155.8
Nutrient/Eutrophication Biological Indicators	51.65	Source Unknown	137.4
Habitat Assessment (Streams)	41.2	Non-irrigated Crop Production	132.9
Tennessee River			
Pathogens	103.5	Source Unknown	207.2
Cause Unknown	78.6	Agriculture	144.45
Sedimentation/Siltation	48.0	Channelization	64.5
Nutrient/Eutrophication Biological Indicators	37.6	Non-irrigated Crop Production	63.6
Iron	24.0	Crop Production (Crop or Dry Land)	58.8
Upper Cumberland			
Sedimentation/Siltation	307.55	Source Unknown	322.95
Pathogens	271.0	Loss of Riparian Habitat	299.95
pH	89.98	Surface Mining	239.1
Specific Conductance	89.25	Legacy Coal Extraction	164.7
Nutrient/Eutrophication Biological Indicators	85.35	Agriculture	141.85
Ohio River Minor Tributaries (4-Rivers & Green-Tradewater BMU)			

Table 3.3.2-1. Number of assessed river miles of the top five causes and sources in the major river basins within the 4-Rivers BMU and Green-Tradewater Rivers BMU.

River Basin	Miles		Miles
Ohio River Minor Tributaries (4-Rivers & Green-Tradewater BMU			
Causes		*Sources*	
Nutrient/Eutrophication Biological Indicators	86.2	Loss of Riparian Habitat	136.4
Sedimentation/Siltation	77.6	Agriculture	103.5
Pathogens	68.5	Industrial Point Source Discharges	96.0
Physical Substrate Habitat Alteration	56.4	Source Unknown	94.6
Cause Unknown	44.6	Inappropriate Waste Disposal	88.8
Green River			
Pathogens	554.65	Source Unknown	718.5
Sedimentation/Siltation	485.45	Loss of Riparian Habitat	556.3
Physical Substrate Habitat Alteration	282.6	Agriculture	415.85
Nutrient/Eutrophication Biological Indicators	196.7	Channelization	391.6
Cause Unknown	176.55	Non-irrigated Crop Production	334.3
Tradewater River			
Sedimentation/Siltation	108.8	Channelization	169.7
Pathogens	81.65	Source Unknown	161.5
Nutrient/Eutrophication Biological Indicators	53.9	Loss of Riparian Habitat	155.7
Other Flow Regime Alterations	49.3	Surface Mining	144.7
Physical Substrate Habitat Alteration	45.5	Non-irrigated Crop Production	102.1

The Tennessee River drainage in Kentucky is an area identified by two eight-digit HUCs, (06040005 and 06040006), with a total drainage of 1,041 square miles. The largest tributary in this portion of the Tennessee River is the Clarks River, which discharges to the Tennessee River four miles above its confluence with the Ohio River.

The Ohio River minor tributaries are identified by one eight-digit HUC (05140206) and drains 326 square miles. The two principle streams in this drainage are Massac and

Humphrey creeks; the greatest linear distance from the southern watershed boundary to the Ohio River is about 17 miles.

The Mississippi River drainage is bound by three eight-digit HUCs, 08010100, 08010201 and 08010202 encompassing 1,203 square miles. The Obion and Mayfield creeks watersheds are the principal drainages directly discharging into the Mississippi River in the Jackson Purchase (of course excluding the Ohio River).

The most significant pollutant in this region of great rivers is "sediments/siltation," accounting for 359 affected stream miles. Pathogen indicators impact 237 stream miles, and nutrients also are identified as a significant pollutant in this basin, with 175 stream miles affected. Significant sources of these pollutants are agricultural sources (596 stream miles), loss of riparian habitat (376 stream miles) and "channelization" (canalization) (316 stream miles). Those pollutant-sources make sense from a relational association. Sediment/siltation, pathogens and nutrients are closely associated; where one is prevalent, particularly sedimentation/siltation, the others are found also, and the loss of riparian habitat nearly paralleling sedimentation/siltation in this basin. This pollutant affects more stream miles than any other in this BMU, as well as Kentucky and the nation. Soils, particularly clays, have high negative charges and thus adsorb cations readily, and these constituents are then transported to receiving streams where habitat buffering provided by riparian vegetation has been lost. As wetlands were ditched and drained, the delayed result was streams and ditches that filled in with sediments, resulting in substantial flooding and erosion. The result is an ongoing cycle of filling and dredging of these stream channels. Soils in this region are particularly susceptible to erosion since they are of particularly fine material (sands and silts) from wind-carried loess.

Upper Cumberland River Basin

Targeted Monitoring: Aquatic Life Use. The targeted monitoring effort resulted in 835 miles of 1320 miles (63 percent) assessed for aquatic life in the upper Cumberland River basin as fully supporting (Table 3.3.2-3). This use may be considered the most sensitive to impairments of all uses that apply to streams and lakes because all ecological elements of the aquatic environment must be of a sufficient level of integrity and quality to support aquatic communities dependent on the resource, (both water quality and in-stream

and out-of-stream habitat). While the majority of miles assessed at targeted monitoring locations for aquatic life were assessed based on biological monitoring, some of those miles were assessed using water physicochemical data at long-term and rotating watershed locations.

One additional stream in the Cumberland River basin is proposed as a RR stream in the 2008 Triennial Review (Table 3.1.42). It should be noted as each cycle phase is repeated, a fewer number of stream miles will likely be added to the reference reach list since there has been a concerted effort to locate all least impacted streams. However, identifying new stream segments as exceptional (401 KAR 5:030) will be a part of KDOW's overall monitoring strategy.

Targeted Monitoring: Fish Tissue. Fish tissue samples were analyzed for mercury and PCB contamination in the upper Cumberland River basin. Of the 105 miles assessed for fish consumption, 92 (about 88 percent) were in full support (Table 3.3.1-5). Approximately 13 miles (12 percent) were not fully supporting this use.

Targeted Monitoring: Primary (Swimming) Contact Recreation. Water column samples were analyzed for the presence and quantity of *E. coli* or fecal coliform colonies to assess this use support. There were 536 river miles assessed in the upper Cumberland River basin (Table 3.3.1-5). Of those river miles, 185 (35 percent) (Figure 3.3.1-1) were fully supporting and 351 miles (65 percent) were partially or not supporting (Table 3.3.1-5). The upper Cumberland River basin (above Pineville) has had a long-standing swimming advisory based on pathogens that remains in effect as of this cycle phase (see section 3.3.1). There were two primary issues related to this high concentration of fecal coliform colonies: municipal point source discharges, with a number of bypasses at wastewater treatment facilities, and straight-pipes discharging untreated household wastewater. Both sources can be tied to topography of the region, which is mountainous with narrow valleys associated with stream and river courses. These valleys provide much of the suitable land where housing can exist with reasonable access. However, available land to construct septic systems with needed lateral lines typically does not exist. The soils in these bottomlands often are poorly drained, further restricting proper on-site treatment in rural areas. A related scenario exists for the wastewater treatment facilities, which often are built in the flood zone of rivers, as these areas provide the limited sites to seat a facility. There is now

a concerted effort in this region to construct regional wastewater treatment plants; this is being realized through federal grant moneys being made available to this economically depressed region.

Targeted Monitoring: Domestic Water Supply. All miles (86.5) assessed in the upper Cumberland River basin were fully supporting this use (Table 3.3.1-5).

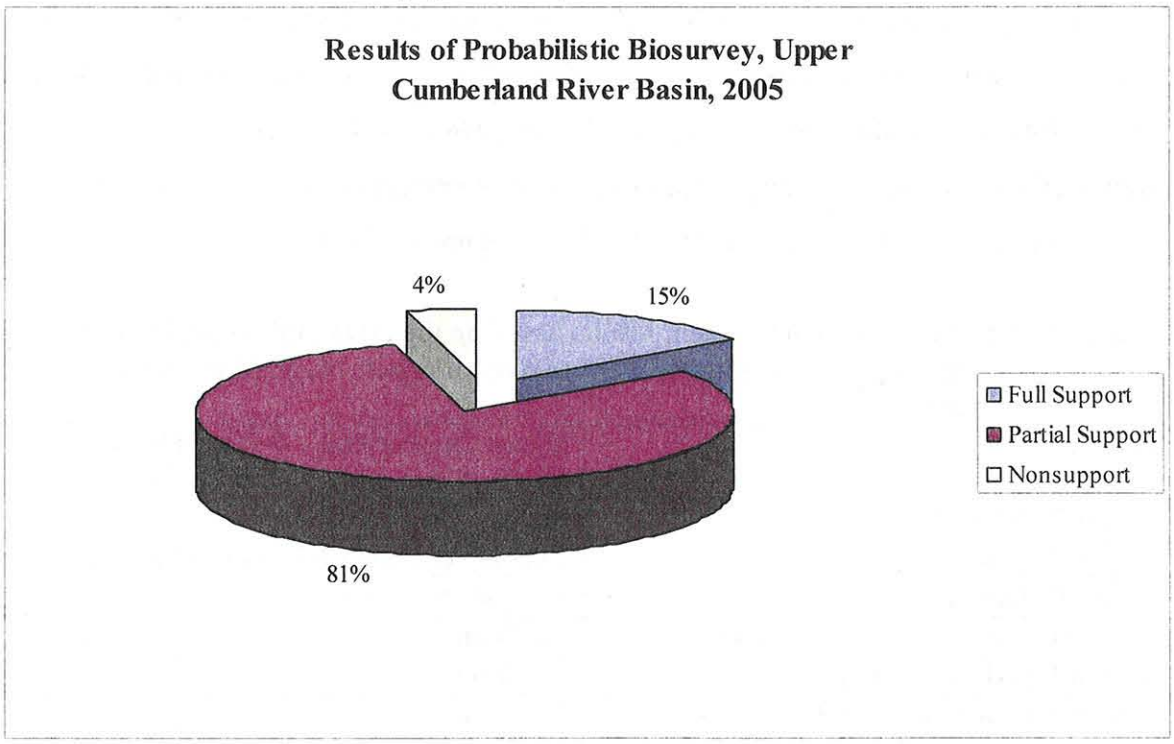
Probability Biosurvey of BMU. A biosurvey of the upper Cumberland River basin was performed according to EMAP and Kentucky SOP protocol (Methods for Assessing Biological Integrity Of Surface Waters in Kentucky), 2006. Because of significant refinement and calibration to KDOW's MBI, comparisons to the 2000 results were problematic and not comparable; therefore, drawing trend information comparisons between the two monitoring years was not possible. As Table 3.3.2-3 conveys, out of 5,599 miles of target stream resources, 4,361 miles were represented in the probability analysis. Once the probability data were extrapolated, 653 miles or 15 percent of wadeable streams in this BMU were fully supporting aquatic life use, while 3531 miles or 81 percent of wadeable streams were partially supporting, and four percent (177 miles) were not supporting the aquatic life use (Table 3.3.2-3 and Figure 3.3.2-1).

Table 3.3.2-2. Aquatic use attainment results based on the 2003 probability biosurvey of the upper Cumberland River basin (all numbers rounded to nearest integer).

Project ID	Upper Cumberland – 4-Rivers BMU (Upper Cumberland River Basin)
Target Population	Streams Strahler Order 1-5
Sample Frame	EPA River Reach File 3 (1:100,000 Scale)
Type of Water body	Wadeable Streams
Size of Defined Stream Population	6,890 mi
Size of Non-Defined Population	2,529 mi
Size of Defined Sampled Population	4,361 mi
Designated Use	Aquatic Life
Attaining Full Use Support	653 mi
Not Attaining Full Use (partial support)	3,531 mi
Not Attaining Full Use (nonsupport)	177
Indicator	Biology (Macroinvertebrates)
Assessment Date	2005
Precision	90% at 95% Confidence Level

Probability and Targeted Monitoring Compared (Aquatic Life Use). Probability and targeted monitoring results differed in the upper Cumberland River basin (Table 3.3.2-3). In this basin, the reference reach and other target-focused programs identified 280 miles, or 21 percent of those streams monitored and assessed, as candidates for and RR waters (Tables 3.1.4-1 and 2). This has been the focus of targeted biomonitoring since the late 1990s, and it became the significant focus with the inception of the rotating BMU strategy in 1998. However, during the 2005 water-year the focus shifted toward concentrating on water bodies and segments 303(d)-listed. In the BMU-wide assessment data, including all monitoring efforts from 2005 and prior targeted monitoring results

Figure 3.3.2-1. Proportions of aquatic life use support in the Upper Cumberland River basin based on probability biosurveys. Pie chart represents the entire defined stream population (Strahler order 1 – 5) in the basin.



account for 1320 miles of assessed waters and include 835 miles (63 percent) full support for aquatic life use, 254 miles (19 percent) partial support and 231 (18 percent) nonsupport (Table 3.3.2-3). In those numbers is significant stream mileage where assessment results are based solely on physicochemical data. The number of water bodies assessed on these data alone are small, but this monitoring occurs on large streams of Strahler order 6 and greater. The streams with only physicochemical data are generally large (> 5th order) rivers

that provide a considerable amount of dilution, and the chances are small of collecting water at the time any one particular pollutant passes with a concentration high enough to exceed water quality criteria. Of those stream miles assessed with only physicochemical data none in this basin were determined to be less than full support. Probability monitoring design selects an equitable number of Strahler order 1 and 2 streams, in addition to Strahler order 3 - 5. These smaller watersheds show stress in biological communities to relatively smaller-scale perturbations than the large watersheds, which can often assimilate more disturbances relative to watershed size. Also, the approach to locating sample locations differs significantly between the two biological programs. The targeted stations are located in the best available stream reach regardless of the monitoring program (Sections 3.1.1-3), whereas the probabilistic approach is designed to randomly detect the prevailing habitat and associated biological conditions in a defined stream population (like Strahler order watersheds) at randomly select locations throughout the study area (BMU) without regard to prevailing in-stream habitat.

Table 3.3.2-3. Comparison of probability and targeted monitoring results for aquatic life use in the upper Cumberland River basin.

	Full Support		Partial Support		Nonsupport	
	Probability	Target	Probability	Target	Probability	Target
Miles	653	835	3531	254	177	231
Percent	15	63	81	19	4	18

4-Rivers Basin (Lower Cumberland, Lower Ohio [minor tributaries], Mississippi and Tennessee)

Targeted Monitoring: Aquatic Life Use. The targeted monitoring effort resulted in 539 miles (of 1,415 miles) (38 percent) assessed for aquatic life use in the 4-Rivers basins as fully supporting (Tables 3.3.2-5). In this region of intensive agriculture and soil type, determining the support level of aquatic life use will often be inconclusive or may be difficult with less than biological community structure evaluation. This due is to the fact that in large areas with row cropping as dominant land use, the results of chemical monitoring are gratly affected by the timing of agricultural land management. Pesticide and herbicide applications (under proper, prudent use) often are only applied after pest

management data signal the damage is approaching economic threshold where chemical treatment is cost-effective. Thus, if chemical monitoring is not timed to coincide with these agricultural practices, the effects will go unnoticed in conventional physicochemical monitoring. While the majority of miles assessed at targeted monitoring locations for aquatic life were assessed based on biological monitoring, some of those miles were assessed using physicochemical data at long-term and rotating watershed locations. Most of these stations are large watersheds of greater than 5th-Strahler order; determining appropriate biological monitoring indicators and protocol are under development on a national level.

Fish Tissue. Fish tissue samples were analyzed for mercury and PCB contamination in the 4-Rivers basins. This designated use was assessed on 199 stream miles; of those miles assessed, 86 percent were full support and 14 percent were less than full support (Table 3.3.1-5). Of the three basins considered in this portion of the BMU, the only basin with less than 75 percent not fully supporting this use was the Tennessee River basin with a 57 percent (15 miles out of 26 miles) full support level.

Targeted Monitoring: Primary (Swimming) Contact Recreation. Water column samples were analyzed for the presence and quantity of fecal coliform colonies to assess this use support. There were 511 river miles assessed in these basins for PCR (Table 3.3.1-5). Of those river miles, 120 (24 percent) (Figure 3.3.1-1) were fully supporting and 391 miles (76 percent) were partially or not supporting this use. The majority of those stream miles not supporting this designated use were located in the Mississippi or Tennessee river basins. While all basins in this region are in predominantly agricultural production, these two particular basins comprise the Jackson Purchase region which is intensively managed for this single industry. There were two primary sources related to this high concentration of bacteria colonies, agriculture and loss of riparian habitat. Where agriculture is an intensive land use, the loss of protective riparian vegetation (habitat) is most prevalent. Through efforts of the KDOW and federal agencies, funding (cost share and grants) and education for riparian zone-specific protection is ongoing, although there is much work left to do.

Targeted Monitoring: Domestic Water Supply. All miles assessed in the 4-Rivers basins fully supported this use (Table 3.3.1-5).

Probability Biosurvey of 4-Rivers Basins. The 4-Rivers basins were sampled according to EMAP and Kentucky SOP (Methods for Assessing Biological Integrity Of Surface Waters in Kentucky), 2006. Because of significant refinement and calibration to KDOW's MBI, comparisons to the 2000 results were problematic and not comparable; therefore, drawing trend information comparisons between the two monitoring years was not possible. As Table 3.3.2-4 conveys, out of 7,443 miles of target stream resources, 5,600 miles were represented in the probability biosurvey and analysis. The target stream mileage population (1,843 miles) is greater than the sampled target population since not all miles in a study area can be accessed for many reasons, most commonly a result of miss-mapped or identified features, but also less commonly due to physical risk in accessing certain areas. Once the probability data were extrapolated, 254 miles or 17 percent of wadeable streams in this BMU were fully supporting aquatic life use, while 5,346 miles, 83 percent of wadeable streams were not fully supporting that use (Table 3.3.2-5 and Figure 3.3.2-2).

Table 3.3.2-4. Aquatic life use attainment results based on the 2005 probability biosurvey of the 4-Rivers basins (numbers rounded to nearest integer).

Project ID	4-Rivers Basins Probability Survey
Target Population	Streams Strahler Order 1-5
Sample Frame	EPA River Reach File 3 (1:100,000 Scale)
Type of Water body	Wadeable Streams
Size of Defined Population	7,443 mi
Size of Non-Defined Population	1,843 mi
Size of Defined Sampled Population	5,600 mi
Designated Use	Aquatic Life
Attaining Full Use Support	565 mi
Not Attaining Full Use (nonsupport)	2,630 mi
Not Attaining Full Use (partial support)	2,404 mi
Indicator	Biology (Macroinvertebrates)
Assessment Date	2005
Precision	90% at 95% Confidence Level

Figure 3.3.2-2. Proportions of aquatic life use support in the 4-Rivers basins, 2005, based on probability biosurveys. Pie chart represents the entire defined stream population (Strahler order 1 – 5) in the basin.

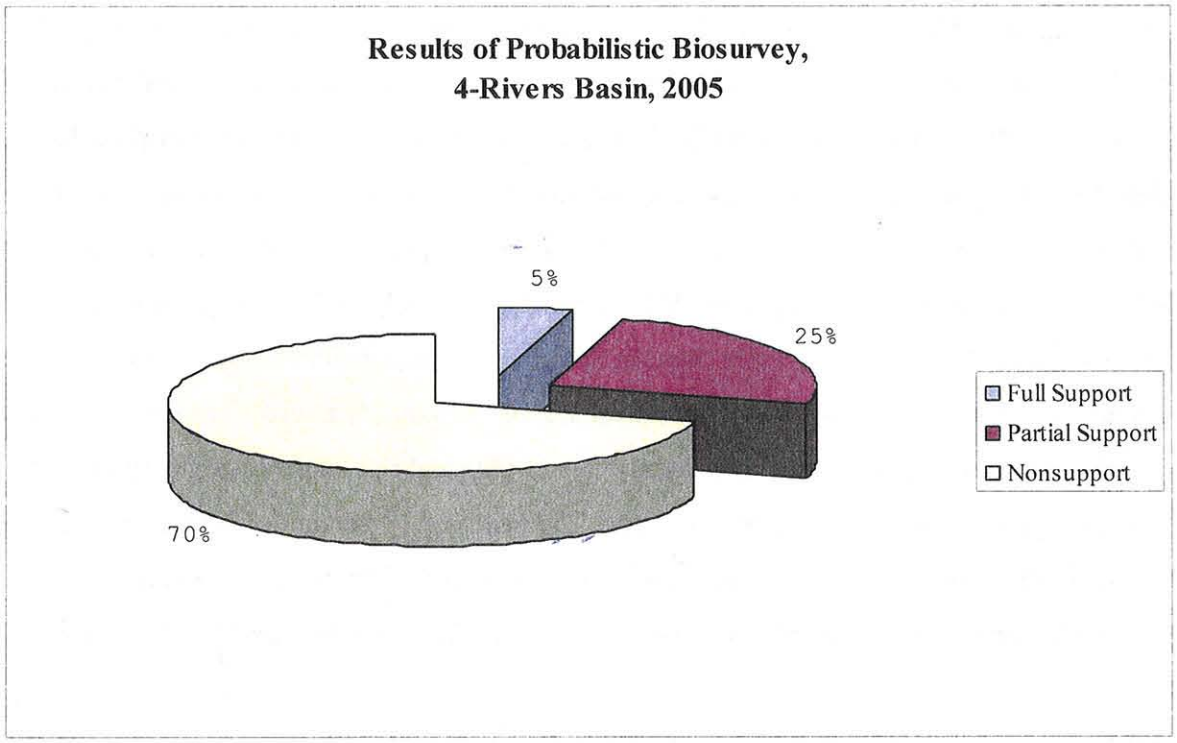


Table 3.3.2-5. Comparison of probabilistic and targeted monitoring results for aquatic life use in the 4-Rivers basins.

	Full Support		Partial Support		Nonsupport	
	Probability	Target	Probability	Target	Probability	Target
Miles	254	539	1389	488	3,957	386
Percent	17	38	57	35	26	27

Probability and Targeted Monitoring Compared (Aquatic Life Use). Probability and targeted monitoring results compare more closely in the 4-Rivers basins (Table 3.3.2-5) than in the upper Cumberland River basin. In the region identifying RR-quality waters has been difficult given the intensively managed land. There have been 98 miles (seven percent) of targeted streams identified as RR quality; a small fraction meeting those criteria as compared to many basins in the commonwealth (three times fewer stream miles as compared to the Upper Cumberland River basin) (Table 3.1.4-1). During this second cycle, the BMU monitoring strategy has focused more in watersheds with 303(d)-listed waters for purposes of TMDL development. This focus is beginning to bring the

nonsupport stream mile curves assessed between the targeted and probability programs closer as the nonsupport miles increases in the targeted monitoring program. In the BMU-wide assessment data from all monitoring efforts through 2005, targeted monitoring results account for 1,413 miles of assessed waters and includes 539 miles (38 percent) full support of aquatic life use, 488 miles (35 percent) partial support and 386 (27 percent) nonsupport (Table 3.3.2-5). This contrasts with only 17 percent of miles fully supporting in the probabilistic monitoring, which statistically is applied to the entire representative defined sample population, while the targeted assessments include cumulative results from previous years, with a bias toward those RR waters. Even with this bias, the relative similarity between results of the two monitoring approaches indicates the overall poor condition of aquatic habitat in these basins. This is a strong reflection of the wide-scale manipulation of the aquatic and stream-side environment in this region.

With all basins, significant stream mileage exists where assessment results are based solely on physicochemical data. The number of water bodies assessed on these data alone are small, but this monitoring occurs on large streams of Strahler order 6 and greater. These large watersheds (by volume) provide a considerable amount of dilution, and the chances are small of collecting water at the time any one particular pollutant passes with a concentration high enough to exceed water quality criteria. Of those stream miles assessed with only physicochemical data, few were determined to be less than full support, although the 4-Rivers basins did have a higher number of stream miles not fully supporting based on results from this program. This was due to the geology, resultant water chemistry (soft, lower buffered and pH normally less than 7.0 SU), particularly with regard to metals, and associated land uses.

Probability monitoring design selects an equitable number of Strahler order 1 and 2 streams, in addition to Strahler order 3 - 5. These smaller watersheds show stress in biological communities to relatively smaller-scale perturbations than the large watersheds, which can often assimilate more disturbances relative to watershed size. Also, the approach to locating sample sites differs significantly between the two biological programs. The targeted stations are located in the best available stream reach regardless of the monitoring program (Sections 3.1.1-3), whereas the probabilistic approach is designed to randomly detect the prevailing habitat and associated biological conditions in a defined stream

population (like Strahler order watersheds) at randomly selected locations throughout the study area (BMU) without regard to prevailing in-stream habitat.

Green – Tradewater Rivers BMU. Two major river systems are combined to form this BMU (Figure 2.2-1). The Green River is the largest intrastate river system (i.e. mainstem of the river is wholly in Kentucky) in the commonwealth, draining an area of 9,807 square miles, including a small area of north-middle Tennessee. This river originates in Lincoln County on the southwest face of Hall's Gap in south-central Kentucky. It flows for 300 miles after which it discharges into the Ohio River. There are four significant tributaries along this course: Nolin River; Barren River; Rough River and Pond River. The Green River basin flows through the Pennyroyal and Shawnee Hills (Western Coal Field) physiographic regions. A good portion of the basin associated with the mid-river valley is significantly karstic, with Mammoth Cave the prominent feature of this vast cave network. This feature makes the Green River basin particularly susceptible to land uses since the Swiss-cheese latticework of underground channels results in surface water runoff quickly reaching groundwater with little opportunity for natural filtration that would occur in non-karst geology. These subterranean streams often form gaining streams discharging into surface water flows. In 1969 the COE created an 8,200 acre flood-control reservoir on the Green River mainstem, Green River Lake, which is located in the upper portion of the basin in south-central Kentucky. Most of the Pennyroyal (all but the southeastern quarter) is drained by this river system and is rolling terrain with associated broad, fertile bottomlands.

The Shawnee Hills is a region of hilly upland of relatively high relief and contains many swamps and bottomland hardwoods due to the poorly drained valleys. This physiographic region is often referred to the Western Coalfield due to the significant coal deposits. At one time Muhlenberg County was the largest coal producing county in the nation, and the lower Green River was an important shipping corridor for this mined resource; the river can be navigated by commercial barge traffic up to lock and dam #3 (river mile 108.5) .

The Tradewater River drains the western portion of the Shawnee Hills region and originates in northern Christian County, about eight miles north of Hopkinsville. The Tradewater is a low-gradient stream flowing through swampland characterized by cypress trees. This river is a tributary of the Ohio River. It is 132 miles long and drains 932 square

miles, discharging into the Ohio River approximately five miles southwest of Sturgis. This portion of the physiographic region is similar to that described in the above paragraph. As with the lower Green River basin, the Tradewater River basin has had much surface coal mining, especially during the 1970s and 1980s.

Causes, Sources and Land Uses. The top five causes (pollutants) and their sources in this BMU, identified for each river basin, are shown in Table 3.3.2-1. As one might expect, these two basins are mirror images of each other with respect to pollutants and sources (Table 3.3.2-1). Pathogen-indicating bacteria and sedimentation/siltation are the two most prevalent pollutants; however, pathogen indicators are pollutants only with regard to PCR and SCR uses. Pathogen causes affect 33 percent of assessed miles (555) in the Green River basin and 24 percent (82 miles) in the Tradewater River basin. Similarly, sedimentation/siltation associated with aquatic life habitat use affects 29 percent (486 miles) and 32 percent (109 miles) of assessed stream miles in the Green and Tradewater rivers basins, respectively. The leading sources of these pollutants strongly correlate to extensive agricultural and mining land uses. As with the 4-Rivers basins, agricultural, loss of riparian habitat and canalization (channelization) account for 67 percent of identified causes (pollutants and pollution), affecting 2,126 miles combined. Those additional causes associated with aquatic life habitat commonly occur in areas associated with agriculture and mining, particularly the nutrient/eutrophication, sedimentation/siltation and physical substrate habitat alteration. One of the most detrimental effects of stream habitat integrity affecting aquatic life use support level is the source "Loss of Riparian Habitat" identified as one of the top three most common source of impairment in the BMU (Table 3.3.2-1). This is a source that is often a direct result of other land use-related sources of impairments such as agriculture and resource extraction, and it is a major contributing factor to sedimentation and siltation.

Targeted Monitoring: Aquatic Life Use. The targeted monitoring effort resulted in 1,389 stream miles out of 2653 miles (52 percent) assessed for aquatic life use in the Green – Tradewater River BMU fully supports this use (Tables 3.3.2-7). This is a region of intensive agriculture and mining, two land uses that typically are not found mutually in other parts of the state. The upper and middle section of the Green River basin (which accounts for about two-thirds of this BMU) is mostly rural and small-scale agriculture in

the form of livestock grazing with limited row cropping. As with all BMUs, physical and chemical monitoring form the primary basis for stream assessments for this use in large streams greater than 5th Strahler order. However, most pollutants included in the physicochemical monitoring will go undetected without also assessing biological communities such as macroinvertebrates that are integrators of these episodic pollutants. Agricultural chemicals in particular are intra-seasonally specific since pesticide and herbicide applications often are only applied after pest management data signal the damage is approaching economic threshold where chemical treatment is cost-effective. Thus, if chemical monitoring is not timed to coincide with these agricultural practices, the effects will go unnoticed during the growing season in conventional physicochemical monitoring. To better assess large rivers, appropriate biological indicators and protocol are under development on a national level.

There are 333 miles of RR streams identified in this BMU, the overwhelming majority of those miles in the Green River basin (Table 3.1.4-1). An additional 18.4 stream miles in the Green River basin are candidate exceptional waters (Table 3.1.4-2) and will be submitted for inclusion in 401 KAR 5:030 in the triennial review of 2008. These miles of candidate exceptional stream segments represent less than one percent of the total number of miles assessed for aquatic life use in this BMU. However, taken with the 333 miles of RR streams, this represents a significant percentage (13 percent) of assessed stream miles in the BMU. Given that finding RR streams was a priority in the first BMU cycle, it is likely additional RR stream miles will be relatively few as targeted monitoring emphasis shifts to TMDL monitoring. However, identifying new stream segments as exceptional (401 KAR 5:030) will be a part of KDOW's overall monitoring strategy.

Targeted Monitoring: Fish Tissue. Fish tissue samples were analyzed for mercury and PCB burden in the Green – Tradewater BMU. Of the 338 miles surveyed, 52 percent of sampled stream miles were found to be supporting (Table 3.3.1-5). The two pollutants of issue were mercury and PCBs. These nonsupporting water body segments are found in portions of these streams: Mud River; Town Branch; Drakes Creek; Green River; and West Fork Drakes Creek.

Targeted Monitoring: Primary (Swimming) Contact Recreation. Water column samples were analyzed for the presence and quantity of *E. coli* and fecal coliform colonies

to assess this use. There were 1,348 stream miles assessed in this BMU and 39 percent of those stream miles fully support that use (Table 3.3.1-5). Even though this is a mostly rural area, it contains extensive livestock grazing and row cropping in an area of extensive karst. Agriculture has the greatest combined source of these pollutants in this BMU (Table 3.3.2-1).

Targeted Monitoring: Domestic Water Supply. Out of 300 miles assessed in this BMU, all of those stream miles are fully supporting this use (Table 3.3.1-5).

Probability Biosurvey of Green – Tradewater BMU. The Green – Tradewater BMU was sampled according to EMAP and KDOW SOP (Methods for Assessing Biological Integrity Of Surface Waters in Kentucky), 2006. Because of significant wide-spread drought conditions in this BMU in 2003, comparisons to those results were problematic; therefore, trend information comparisons between the two monitoring years were not made. Thus, many headwater streams in 2003 that might have been expected to be part of the survey were excluded because of those drought conditions. As Table 3.3.2-6 shows, out of 9,991 miles of target stream resources, 9,445 miles were represented in the probability analysis. Once the probability data were extrapolated, 2,607 miles or 28 percent of wadeable streams in this BMU were fully supporting aquatic life use, while 6,837 miles or 72 percent of wadeable streams were not fully supporting that use (Table 3.3.2-7 and Figure 3.3.2-3). This probability survey did find a considerably greater aquatic life use support level for this basin as compared to the upper Cumberland River and 4-Rivers basins (15 and 17 percent, respectively). These findings are not confounding considering these two BMUs and the intense land uses that are found in environmentally damaging on a large-scale that is ongoing in the Upper Cumberland – 4-Rivers BMU. The mountainous upper Cumberland basin also supports a delicately balanced aquatic habitat given the physical and chemical characteristics of its ecosystem. However, it should be noted the Green River basin is home to sensitive, uncommon aquatic fauna, especially the subterranean forms in the well-developed underground river systems.

Table 3.3.2-6. Aquatic use attainment results based on the 2004 probability biosurvey of the Green – Tradewater Rivers BMU.

Project ID	Green – Tradewater BMU Probability Survey
Target Population	Streams Strahler Order 1-5
Sample Frame	EPA River Reach File 3 (1:100,000 Scale)
Type of Water body	Wadeable Streams
Size of Target Population	9,991 mi
Size of Non-Target Population	8,865 mi
Size of Target Sampled Population	9,445 mi
Designated Use	Aquatic Life
Attaining Full Use	2,607 mi
Not Attaining Full Use	6,837mi
Indicator	Biology (Macroinvertebrates)
Assessment Date	2005
Precision	93% at 95% Confidence Level

Probability and Targeted Monitoring Compared (Aquatic Life Use).

Probability and targeted monitoring results differed the least in this BMU, as compared to the Upper Cumberland – 4-Rivers BMU (Table 3.3.2-7). In this basin, there are 333 miles or 13 percent of targeted stream miles identified as RR aquatic habitats (Table 3.1.4-1). In this water-year, a number of miles were assessed as follow-up surveys on designated reference reach stream segments to monitor the conditions through cycle phases. As is the order of targeted monitoring within KDOW programs, a significant portion of the targeted streams are Strahler order 4 or greater watersheds, whereas probability monitoring design selects an equitable number of Strahler order 1 – 5 streams. These smaller watersheds manifest stress in biological communities to relatively smaller-scale perturbations than large watersheds, which can often assimilate more disturbances relative to watershed size. Also, the approach to locating sample stations differs significantly between the two biological programs. The targeted stations are located in the best available stream reach, whereas the probabilistic approach is designed to randomly detect the prevailing habitat and associated biological conditions in a defined stream population (like Strahler order watersheds) at randomly selected locations throughout the study area. To illustrate this, the Green – Tradewater BMU has 333 miles of RR streams, with 284 of those miles in the Green River basin alone. Reference reach stream miles are often representative of a fragment of the watershed that is an outstanding example of habitat and aquatic

communities. These types of occurrences are an example of the biased monitoring strategies inherent to targeted monitoring that the probabilistic program avoids through random, unbiased design and protocol.

Figure 3.3.2-3. Proportions of aquatic life use support in Green - Tradewater Rivers BMU based on probability biosurveys. Pie chart represents the entire defined stream population (Strahler order 1 – 5) in the basin.

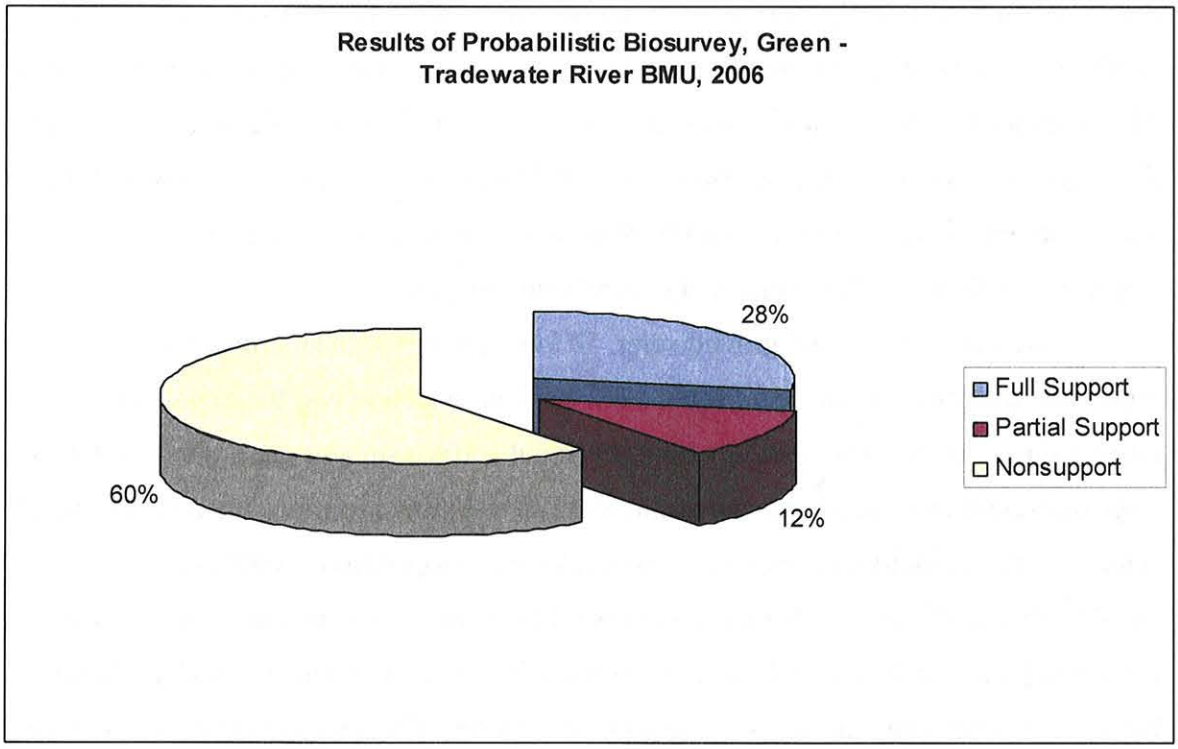


Table 3.3.2-7. Comparison of probabilistic and targeted monitoring results for aquatic life use in the Green – Tradewater Rivers BMU (Note: percentages rounded to nearest integer).

	Full Support		Partial Support		Nonsupport	
	Probability	Target	Probability	Target	Probability	Target
Miles	2,607	1,389	1,109	657	5,728	607
Percent	28	52	12	25	60	23

Integrated Surface and Groundwater Quality Assessment of Large Karst Springs in the Green River Basin. The purpose of this project was to assess the nonpoint source (NPS) impacts to groundwater in the Green – Tradewater River BMU, and to

integrate ground- and surface water quality information with biological data to better define the nexus between the two flow systems. Groundwater and surface water are conjunctive systems, no where more directly so than in karst terrain. Surface water assessments in the well-developed karst terrain of the sinkhole plain are limited due to a lack of flowing surface streams. Therefore, karst basins represent large unassessed areas of contribution to the Green River basin. For example, Gorin Mill Spring, south of Munfordville, Kentucky, contributes approximately 10 percent of the base flow of the Green River. Subsurface conduits drain these karst basins that discharge to surface waters at discrete large springs. This integrated surface water/groundwater assessment addresses the deficiency caused by the lack of significant stream segments that can be assessed using conventional techniques. This approach also provides needed information on spring conditions relative to NPS impacts to both the surface water and groundwater programs.

To assess surface and groundwater, 10 karst springs with significant discharge were monitored monthly for one year (Table 3.3.2-8). Site selection was based on identifying large, well-developed karst basins where perennial surface streams are limited, and where large discrete springs discharge the drainage of these basins to surface waters. Other site selection criteria include accessibility and landowner cooperation. Additional considerations include whether these sites would provide new data, will support other programs (e. g., 305[b], TMDL, wellhead protection, etc.), and whether land use in the basins represents nonpoint source pollutants of concern. The drainage areas for most karst basins were previously identified. Additional groundwater tracer testing was conducted for two un-delineated basins.

Table 3.3.2-9 shows the uses assessed for springs and the miles from those assessments in the proper use support-level. The major cause (pollutants) found to exceed water quality standards for assessed springs in the Green River basin for warm water aquatic life use is "nutrient/eutrophication biological indicators" which accounts for 91 percent of causes. Primary contact recreation use assessment using *E. coli* as the indicator found 95 percent of spring miles not supporting that use. Given the nature of springs draining large, indeterminate watersheds, source of these causes are listed as "source unknown" and will be identified in intensive watershed monitoring related to TMDL

development. Landowners or operators of these resources received copies of sample results with explanatory letters and other relevant material.

Table 3.3.2-8. Springs monitored in the Green River basin during water-year 2006-2007.

Spring Name	County	Karst Basin Area (mi^2)	Base Flow Discharge (ft^3/s)
Gorin Mill	Hart	152.4	24.0
Graham	Warren	122.3	19.8
Lost River Rise	Warren	58.8	12.4
Nolynn	Larue	56.4	4.6
McCoy	Hart	34.1	12.7
Skees Karst Window	Hardin	27.5	6.4
Mahurin	Grayson	25.3	2.1
Head of Rough River	Hardin	17.3	2.8
Goodman	Hardin	14.7	4.6
Mill	Grayson	7.1	3.9

Table 3.3.2-9. Individual designated use support summary for springs in Kentucky, 2008.

Designated Use	Total in State (miles)	Total Assessed (miles)	Supporting Water Quality Standards (miles)	Not Supporting Water Quality Standards (miles)	Size of Resource Not Assessed (miles)
Warm Water Aquatic Habitat	10.48	10.45	5.0	5.45	0.03
Fish Consumption	10.48	0	0	0	10.48
Primary Contact Recreation	10.48	9.95	0	9.95	0.53
Secondary Contact Recreation	10.48	0	0	0	10.48
Domestic Water Supply	0.03	0.03	0.03	0	0

3.3.3 Ohio River

ORSANCO assessed uses in the 664 miles of the Ohio River main stem that forms Kentucky's northern boundary and a summary of those findings are presented in the ORSANCO 2008 305(b) report. No reaches of the Ohio River fully support all uses. Drinking water and aquatic life use are fully supported in all river miles. Eighteen

segments along this reach were not fully supporting primary contact recreation use due to pathogens. Of the 664 miles that form Kentucky's northern border, those 18 segments represent 350 miles (53 percent) that did not fully support the use. This limited support was often a result of combined sewer overflows (CSOs) during and immediately following rainfall events in and downstream of urban areas. All miles of the Ohio River partially supported the fish consumption use because of limited fish consumption advisories for PCBs and dioxin.

3.3.4 Assessment Results of Lakes and Reservoirs: Focus on Upper Cumberland – 4-Rivers and Green – Tradewater Rivers BMUs

Introduction. Since the initiation of the rotating basin approach in 1998, the commonwealth's significant publicly-owned lakes and reservoirs are monitored over a five-year cycle instead of the previous seven- to eight-year cycle. During this two-year reporting period, 50 lakes and reservoirs were monitored (maps located in Appendix C) and four were carry forward assessed reservoirs from 2000-01 water-years due to access restrictions in the Upper Cumberland – 4-Rivers BMU and Green – Tradewater BMU.

Designated uses in lakes consist of Warm Water Aquatic Habitat (WAH) (sometimes in conjunction with Cold Water Aquatic Habitat (CAH) in lakes with a two-story fishery) and Primary and Secondary Contact Recreation (PCR and SCR). Many reservoirs also have a domestic water supply (DWS) use. Indicators monitored or sampled for analysis to determine lake or reservoir health (water quality) may be found in Table 3.2.1-1.

3.3.4.1 Assessment of Trophic State and Use Support.

Trophic status was assessed in lakes by using the Carlson Trophic State Index (TSI) for chlorophyll *a*. This method is convenient because it allows lakes to be ranked numerically according to increasing eutrophy, and it also provides for a distinction between oligotrophic, mesotrophic, eutrophic, and hyper-eutrophic lakes. The growing season (April – October) average TSI value was used to rank each lake. Areas of lakes that exhibited trophic gradients or embayment differences often were analyzed separately. Use support in lakes was determined by criteria listed in Table 3.2.1-3.

3.3.4.2 Results

Statewide. Table 3.3.4.2-1 through 3.3.4.2-9 present statewide summaries of use support, impairments (causes) and sources of impairments of reservoirs, ponds and lakes in the state. The water quality assessment of lakes includes more than 95 percent of the publicly-owned lakes, ponds and reservoirs acreage of Kentucky (Table 3.3.4.2-1). Seventy-four of 127 lakes, ponds and reservoirs (58 percent) fully support their uses, and 53 (42 percent) do not support one or more uses. On an acreage basis, approximately 73 percent (778,108 acres) of the 1,072,470 designated uses-assessed acres fully support uses, and approximately 27 percent (294,362 designated use-acres) do not support one or more uses (Table 3.3.4.2-1 – 3).

Table 3.3.4.2-1. Individual use support summary for Kentucky reservoirs.

Use	Total Size	Size Assessed	Size Fully Supporting	Size Fully Supporting but Threatened	Size Not Supporting	Size Not Assessed
Warm Water Aquatic Habitat	219,135	217,811	209,093	0	8,781	1,324
Cold Water Aquatic Habitat	2,410	2,410	2,410	0	0	0
Fish Consumption	216,135	204,664	112,209	0	92,455	14,471
Primary Contact Recreation Water	219,135	62,149	61,930	0	219	156,986
Secondary Contact Recreation Water	219,135	213,497	200,773	0	12,724	5,638
Domestic Water Supply	194,217	192,692	191,031	0	1,661	1,525

Table 3.3.4.2-2. Individual use support summary for Kentucky lakes.

Use	Total Size	Size Assessed	Size Fully Supporting	Size Fully Supporting but Threatened	Size Not Supporting	Size Not Assessed
Warm Water Aquatic Habitat	571	571	342	0	229	0
Fish Consumption	571	63	0	0	63	508
Primary Contact Recreation Water	571	0	0	0	0	571
Secondary Contact Recreation Water	571	317	317	0	0	254

Table 3.3.4.2-3. Individual use support summary for Kentucky ponds.

Use	Total Size	Size Assessed	Size Fully Supporting	Size Fully Supporting but Threatened	Size Not Supporting	Size Not Assessed
Warm Water Aquatic Habitat	4.8	0	0	0.0		4.8
Fish Consumption	4.8	4.8	3.3	0.0	1.5	0.0
Primary Contact Recreation Water	4.8	0.0	0.0	0.0	0.0	
Secondary Contact Recreation Water	4.8	0.0	0.0	0.0	0.0	4.8

Methylmercury and mercury in fish tissue were the most frequently identified pollutant, accounting for the most lake, pond and reservoir acres impacted (92,520 or statistically 100 percent of acres not supporting fish consumption use) (Table 3.3.4.4 – 6). Nutrients/eutrophication biological indicators and pH were the second and third most frequent impairments. A list of those causes and sources is presented in Tables 3.3.4.2-7 –

9. Sources "unknown" were most commonly identified as it relates to impairments affecting Kentucky's reservoirs and lakes; this related to the high frequency of mercury in fish tissue and methylmercury identified as the primary pollutant. This pollutant enters aquatic environments from multiple pathways. Ponds also had "unknown" as the most common source (Table 3.3.4.2-9) due to methylmercury. A fish consumption advisory for PCBs is in place on one reservoir of considerable size (Green River Lake), resulting in a high percentage of lake acres impacted by priority organics (Table 3.3.4.2-4). Agricultural-related sources, along with municipal point sources and septic systems, were the most commonly identified sources related to nutrient impairments (Tables 3.3.4.2-7 and 8). The indicator pH was the fourth most frequent "pollutant" with respects to reservoir and lake impairment. The listing of pH for standards exceedence affects CAH, WAH and PCR and SCR uses (Table 3.3.4.2-4). Dissolved oxygen was displaced to fifth most frequent "pollutant" in these waters (Table 3.3.2-4 and 5). A related problem was the pollution-indicator, dissolved gas super-saturation, which often occurs with excess nutrients during daylight hours as photosynthesis from excess algae occurs. Naturally shallow lake or reservoir basins, or those that have excessive sedimentation resulting in shallow basins, often provide suitable habitat for the proliferation of nuisance aquatic weeds that impair secondary contact recreation and account for the fifth highest cause of use nonsupport. Natural conditions such as manganese releases from anoxic hypolimnetic water (deepest water-layer in stratified reservoirs and lakes) and nutrients (resulting in high production of aquatic macrophytes and plankton) in runoff from relatively undisturbed watersheds affect domestic water supply and secondary contact uses, respectively. Suspended solids from surface mining activities have decreased in severity as a source from previous years but continue to impede full secondary contact recreation use in one eastern Kentucky reservoir (Buckhorn Lake).

Trophic state was determined for the number of acres and lakes for the four possible categories of TSI. For this presentation of data, a distinction between lakes (natural waterbodies) and reservoirs (manmade lakes or impoundments) is made. Tables 3.3.4.2-10 and 11 present these results.

Table 3.3.4.2-4. Number of acres of Kentucky reservoirs, lakes and ponds affected by individual causes (pollutants).

Cause	Total Size
Methylmercury	78,313
Mercury in Fish Tissue	14,142
Nutrient/Eutrophication Biological Indicators	9,724
pH	8,489
Oxygen, Dissolved	8,388
PCB in Fihs Tissue	8,210
Dissolved Gas Supersaturation	3,864
Total Suspended Solids (TSS)	3,040
Sedimentation/Siltation	2,417
Organic Enrichment (Sewage) Biological Indicators	1,264
Taste and Odor	1,171
Aquatic plants (macrophytes)	711
Chlorophyll-a	548
Habitat Assessment (Streams)	339
Manganese	317
Aquatic Algae	169
Dissolved oxygen saturation	64
Impairment Unknown	43

Table 3.3.4.2-5. Number of acres of Kentucky lakes (natural) affected by causes (pollutants).

Cause	Total Size
Oxygen, dissolved	229
Nutrient/Eutrophication Biological Indicators	229
Methylmercury	36
Mercury in fish tissue	27

Table 3.3.4.2-6. Number of acres of Kentucky ponds affected by cause (pollutant).

Cause	Total Size
Methylmercury	1.5

Table 3.3.4.2-7. Sources of causes (pollutant) to Kentucky reservoirs.

Source	Total Size
Atmospheric Deposition - Toxics	68,888
Source Unknown	43,470
Upstream Source	12,724
Agriculture	9,151
Industrial Point Source Discharge	8,210
Municipal Point Source Discharges	6,129
Surface Mining	4,270
On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)	4,232
Livestock (Grazing or Feeding Operations)	3,356
Internal Nutrient Recycling	3,212
Natural Sources	2,877
Rural (Residential Areas)	317
Littoral/shore Area Modifications (Non-riverine)	512
Impacts from Abandoned Mine Lands (Inactive)	219
Unspecified Urban Stormwater	170
Non-irrigated Crop Production	169
Crop Production (Crop Land or Dry Land)	137
Grazing in Riparian or Shoreline Zones	99
Habitat Modification - other than Hydromodification	99
Septage Disposal	98
Golf Courses	78
Streambank modifications/destabilization	37
Post-development erosion & sedimentation	37
Contaminated Sediments	18

Table 3.3.4.2-8. Sources of causes (pollutant) to Kentucky lakes (natural).

Source	Total Size
Natural Sources	193
Agriculture	193
Non-irrigated crop production	36
Atmospheric deposition – toxics	36
Rural (residential areas)	36
Source Unknown	27

Table 3.3.4.2-9. Source of cause (pollutant) to Kentucky ponds.

Source	Total Size
Source Unknown	1.5

Table 3.3.4.2-10. Trophic state of reservoirs in Kentucky

Trophic State	Number of Lakes	Total Size
Oligotrophic	10	62,602
Mesotrophic	30	23,161
Eutrophic	54	131,705
Hypereutrophic	1	317
Dystrophic	0	0

Table 3.3.4.2-11. Trophic state of lakes in Kentucky

Trophic Status	Number of Lakes	Total Size
Oligotrophic	0	0
Mesotrophic	0	0
Eutrophic	9	308
Hypereutrophic	3	263

Upper Cumberland River Basin. The fact that the majority of Kentucky's oligotrophic (infertile, low primary production) reservoirs are located in this basin is related to the geology of this mountainous and high plateau basin. Of the fully supporting reservoirs in this basin, two are eutrophic, three are mesotrophic and one is oligotrophic (Tables 3.3.4.2-12). In this basin, there were 11 reservoirs monitored or evaluated (evaluated for DWS only), nine were fully supporting uses and three did not support fully all uses (Table 3.3.4.2-12 – 14). Of reservoirs fully supporting uses, the trend in trophic state is decreasing toward a less nutrient-enriched system on five reservoirs, stable on two and increasing on two as compared to data from 2000. Of those reservoirs less than full support of one or more uses, one reservoir is stable and another is slightly increasing in trophic state (Table 3.3.4.2-12-14). Nutrient/eutrophication biological indicators is the most common impairment affecting water quality conditions in these reservoirs (Tables 3.3.4.2-13 and 14). Excess nutrients (phosphorus and nitrogen) eventually result in depleted or lowered DO in the water column. Sources of those impairments are listed in Tables 3.3.4.2-13 and 14.

Table 3.3.4.2-12. Upper Cumberland River Basin reservoirs that fully support assessed uses.

Lake	Acres	County	Trophic State	Eutro-phication Trend	Uses
Cannon Creek	243	Bell	Oligotrophic	Stable	C/WA H FC SCR DWS
Cranks Creek	219	Harlan	Oligotrophic	Increasing (degrading)	WAH SCR
Dale Hollow Reservoir	4300	Clinton	Oligotrophic	Decreasing (improving)	WAH FC P/SCR DWS
Linville	273	Rockcastle	Eutrophic	Stable	C/WA H FC P/SCR DWS
Laurel Creek	88	McCreary	Mesotrophic	Decreasing (degrading)	WAH FC P/SCR DWS
Laurel River	6060	Whitley & Laurel	Oligotrophic	Decreasing (improving)	WAH, CAH, SCR, DWS
Martin's Fork	334	Harlan	Mesotrophic	Decreasing (improving)	C/WA H FC P/SCR DWS
Tyner	87	Jackson	Mesotrophic	Increasing (degrading)	WAH FC P/SCR DWS
Wood Creek	672	Laurel	Oligotrophic	Decreasing (improving)	WAH FC P/SCR DWS

Table 3.3.4.2-13. Upper Cumberland River basin reservoirs partially supporting assessed uses.

Lake/Reservoir	Acres	County	Trophic State (↓ ↑ ↔)[a]	Impaired Use	Cause (pollutant)	Source
Chenoa	37	Bell	Mesotrophic ↔ (stable)	SCR	Aquatic plants (macrophytes)	Post-development erosion and sedimentation, streambank modi-fication/destabilization, shallow lake/reservoir basin
Corbin City	139	Laurel	Mesotrophic (insufficient trend data)	WAH	Chlorophyll *a*, nutrient/eutrophication biological indicators, organic enri-chment (sewage) biological indicators	Internal nutrient recycling, municipal point source discharges, agriculture
Cumberland	50,250	Pulaski, Russell, Wayne	Oligotrophic ↑ (degrading)	FC	Methylmercury	Atmospheric deposition - toxics

[a]Symbols represent decreasing, increasing or stable as it relates to trophic state trend

Table 3.3.4.2-14. Upper Cumberland River basin reservoirs not supporting assessed uses.

Lake/Reservoir	Acres	County	Trophic State	Use Impaired	Cause of Impairment	Source of Impairment
Corbin City	139	Laurel	Mesotrophic (insufficient trend data)	DWS	Nutrient/eutrophication biological indicators, organic indicators (sewage) biological indicators, taste and odor	Internal nutrient recycling, municipal point source discharges, agriculture

4-Rivers Basins. There were 10 lakes and reservoirs monitored in 2005. Of those 10, six are fully supporting assessed uses, four are partially supporting assessed uses and one is not supporting assessed uses (Tables 3.3.4.2-15 – 17). Of the fully supporting lakes and reservoirs (in the 4-Rivers basins, five are eutrophic and one is mesotrophic (Tables 3.3.4.2-15). The trends in trophic state of all reservoirs that fully support uses are increasing, with the exception of Blythe Lake (mesotrophic) as compared to 2000 data (Table 3.3.4.2-15). The remaining lakes and reservoirs are less than fully supporting all assessed uses (Tables 3.3.4.2-16 and 17). These lakes most commonly are less than full support for SCR based on proliferation of aquatic macrophytes over a substantial portion of open-water area. This can be attributed to shallow basins in meso- to eutrophic trophic state. However, an important trend concerning these lakes is that of decreasing trophic state in all but one, which had insufficient data to make a trend determination (Tables 3.3.4.2-16 and 17). Methylmercury and mercury (in fish tissue) are found to be at levels above criteria in both lakes where fish flesh was analyzed for contaminants. Hematite Lake (reservoir) has excess nutrients (phosphorus and nitrogen) that result in the depletion of adequate DO in the water column through excess primary (phytoplankton) production; conversely, the excess algal growth will result in super-saturation of DO during photosynthesis (Table 3.3.4.2-17).

Table 3.3.4.2-15. 4-Rivers basins (lower Cumberland, lower Ohio, Mississippi and Tennessee rivers) lakes and reservoirs that fully support assessed uses.

Lake	Acres	County	Trophic State	Eutrophication Trend	Uses
Energy	370	Trigg	Eutrophic	Increasing (degrading)	WAH, FC, SCR
Barkley	45,500	Lyon	Eutrophic	Increasing (degrading)	WAH, FC, P/SCR, DWS
Blythe	89	Christian	Mesotrophic	Decreasing (improving)	WAH, FC, SCR
Morris	170	Christian	Eutrophic	Increasing (degrading)	WAH, P/SCR, DWS
Turner	61	Ballard	Eutrophic	Increasing (degrading)	WAH, FC, SCR
Kentcuky	48,100	Calloway	Eutrophic	Increasing (degrading)	WAH, FC, P/SCR, DWS

Table 3.3.4.2-16. 4-Rivers basins (lower Cumberland, lower Ohio, Mississippi and Tennessee rivers) Kentucky River Basin lakes and reservoirs that partially support assessed uses.

Lake	Acres	County	Trophic State (↓, ↑, ↔)[a]	Use Impaired	Cause of Impairment	Source of Impairment
Hematite	90	Trigg	Mesotrophic ↓ (degrading)	SCR	Aquatic plants (macrophytes)	Littoral/shore area modifications, natural sources, shallow lake/reservoir basin
Honker	190	Lyon	Mesotrophic ↓ (degrading)	SCR	Aquatic plants (macrophytes)	Littoral/shore area modifications, natural sources, shallow lake/reservoir basin
Fish	27	Ballard	Eutrophic (insufficient trend data)	WAH, FC, SCR	Mercury in fish tissue	Source unknown
Metropolis	36	McCracken	Eutrophic ↓ (degrading)	WAH, FC, SCR	Methylmercury, dissolved oxygen, nutrient/eutro-phication biological indicators	Atmospheric deposition, internal nutrient recycling, non-irrigated crop production, rural (residential area), shallow lake/reservoir basin

[a]Symbols represent decreasing, increasing or stable as it relates to trophic state trend

Table 3.3.4.2-17. 4-Rivers basins (lower Cumberland, lower Ohio, Mississippi and Tennessee rivers) reservoir not supporting assessed uses.

Lake	Acres	County	Trophic State (↓, ↑, ↔)[a]	Use Impaired	Cause of Impairment	Source of Impairment
Hematite	90	Trigg	Mesotrophic ↓ (improving)	WAH	Dissolved oxygen, nutrient/eutrophication biological indicators	Source unknown

[a]Symbols represent decreasing, increasing or stable as it relates to trophic state trend

Green – Tradewater Rivers BMU. There were 29 reservoirs monitored in this BMU, the largest number of monitored publicly-owned reservoirs and lakes in the five BMUs. Twenty of those reservoirs are fully supporting their assessed uses (Table 3.3.4.2-18), and nine are partially supporting one or more assessed uses (Table 3.3.4.2-19). Of those fully supporting reservoirs, 16 are eutrophic and four are mesotrophic; there are no monitored oligotrophic reservoirs in this BMU (Tables 3.3.4.2-18). The trend in trophic state of five reservoirs that fully support uses is increasing (degrading), nine are stable and six are decreasing (improving) compared to 2000 data (Table 3.3.4.2-15). The remaining reservoirs (nine) are less than fully supporting all assessed uses (Tables 3.3.4.2-19). As a group, these lakes are less than full support for a variety of uses, and indicate no recognized pollutant-trend on a BMU basis. Secondary contact recreation use is impaired from a proliferation of aquatic macrophytes over a substantial portion of open-water area sedimentation/siltation and excess nutrients (Table 3.3.4.2-19). The other most frequently impaired use is fish consumption due to mercury tainted fish flesh. An important trend of note concerning the reservoirs in this BMU is that 20 of those reservoirs monitored in this cycle have decreasing or stable (improving or holding steady) trophic trend; whereas, six reservoirs are increasing (degrading) per trophic state (Tables 3.3.4.2-18 – 19). Those reservoirs with insufficient data to determine trophic state trend were not monitored due to lack of access as of this monitoring cycle. Nutrients and excessive sedimentation/siltation are two pollutants of additional concern with these reservoirs.

Table 3.3.4.2-18. Green – Tradewater Rivers BMU reservoirs that fully support all assessed uses.

Lake	Acres	County	Trophic State	Eutrophication Trend	Uses
Barren River	10,000	Allen	Eutrophic	Increasing (degrading)	WAH, FC, P/SCR, DWS
Briggs	19	Logan	Eutrophic	Decreasing (improving)	WAH, FC, SCR
Freeman	160	Hardin	Eutrophic	Decreasing (improving)	WAH, FC, SCR
Grapevine	50	Hopkins	Mesotrophic	Stable	WAH, FC, SCR
Washburn	26	Ohio	Eutrophic	Decreasing (improving)	WAH, FC, SCR
Liberty	79	Casey	Mesotrophic	Decreasing (improving)	WAH, FC, SCR, DWS
Metcalfe County	22	Metcalfe	Eutrophic	Stable	WAH, FC, SCR
Mill Creek	109	Monroe	Eutrophic	Increasing (degrading)	WAH, FC, SCR, DWS
Nolin River	5,790	Grayson	Eutrophic	Stable	WAH, FC, P/SCR, DWS
Salem	99	Larue	Eutrophic	Increasing (degrading)	WAH, FC, SCR, DWS
Shanty Hollow	135	Warren	Eutrophic	Stable	WAH, FC, SCR
Spurlington	36	Taylor	Eutrophic	Decreasing (improving)	WAH, FC, SCR
Beshear	760	Caldwell	Eutrophic	Stable	WAH, FC, P/SCR, DWS
Peewee	360	Hopkins	Eutrophic	Increasing (degrading)	WAH, FC, SCR, DWS
Loch Mary	135	Hopkins	Mesotrophic	Stable	WAH, FC, SCR, DWS

Table 3.3.4.2-18 (cont.). Green – Tradewater Rivers BMU reservoirs that fully support all assessed uses.

Lake	Acres	County	Trophic State	Eutrophication Trend	Uses
Moffit	49	Union	Eutrophic	Stable	WAH, FC, SCR
Pennyrile	47	Christian	Mesotrophic	Decreasing (improving)	WAH, FC, SCR
Kingfisher	30	Daviess	Eutrophic	Stable	WAH, FC, SCR
George	53	Crittenden	Eutrophic	Increasing (degrading)	WAH, FC, SCR, DWS
Mauzy	84	Union	Eutrophic	Stable	WAH, FC, SCR

Table 3.3.4.2-19. Green – Tradewater Rivers BMU reservoirs that partially support assessed uses.

Lake	Acres	County	Trophic State (↓, ↑, ↔)[a]	Use Impairment	Cause of Impairment	Source of Impairment
Campbellsville City	63	Taylor	Eutrophic ↓ (improving)	SCR	Sedimentation/siltation, aquatic plants (macrophytes)	Upstream source, natural sources
Caneyville City	75	Grayson	Eutrophic (insufficient trend data)	SCR, DWS	Sedimentation/siltation, nutrient/eutro-phication biological indicators	Natural sources, shallow lake/reservoir basin
Green River	8,210	Taylor	Eutrophic ↔ (stable)	FC	Mercury in fish tissue, PCB in fish tissue	Industrial point source discharge, source unknown
Luzerne	55	Muhlenberg	Mesotrophic (insufficient trend data)	DWS	Nutrient/eutrophication biological indicators	Source unknown
Malone	826	Logan	Eutrophic ↔ (stable)	FC	Mercury in fish tissue	Source unknown
Rough River	5,100	Hardin	Mesotrophic ↑ (degrading)	FC	Mercury in fish tissue	Source unknown
Spa	240	Logan	Eutrophic ↔ (stable)	SCR	Chlorophyll *a*, sedimentation/siltation, habitat assessment (lakes)	Natural sources, agriculture
Carpenter	64	Daviess	Eutrophic ↔ (stable)	WAH	Dissolved oxygen, dissolved oxygen saturation, nutrient/eutrophication biological indicators	Upstream source, agriculture
Scenic	18	Henderson	Eutrophic (insufficient trend data)	WAH	Nutrient/eutrophication biological indicators	Contaminated sediments, internal recycling

[a]Symbols represent decreasing, increasing or stable as it relates to trophic state trend

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Appendix A. 305(b) Statewide Assessment Results
for Kentucky through 2008 305(b) Cycle

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Abbott Creek 0.0 to 3.2	Big Sandy River	RIVER	5070203	FLOYD	5B-NS	5B-NS	3	3	3	7/30/2004	WAH, FC, PCR, SCR
Arkansas Creek 0.0 to 3.6	Big Sandy River	RIVER	5070203	FLOYD	5-NS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Arnold Fork 0.0 to 2.6	Big Sandy River	RIVER	5070203	KNOTT	5-NS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Barnetts Creek 0.0 to 1.6	Big Sandy River	RIVER	5070203	JOHNSON	5-PS	3	3	3	3	7/3/2004	WAH, FC, PCR, SCR
Bear Creek 0.0 to 1.9	Big Sandy River	RIVER	5070204	LAWRENCE	5-PS	5-NS	3	3	3	1/20/2003	WAH, FC, PCR, SCR
Beaver Creek 0.0 to 7.1	Big Sandy River	RIVER	5070203	FLOYD	5-PS	5-NS	3	3	3	1/21/2004	WAH, FC, PCR, SCR
Big Creek 0.0 to 1.9	Big Sandy River	RIVER	5070201	PIKE	2-FS	5-NS	3	3	3	1/16/2004	WAH, FC, PCR, SCR
Big Creek 10.7 to 15.1	Big Sandy River	RIVER	5070201	PIKE	5-PS	3	3	3	3	11/25/2003	WAH, FC, PCR, SCR
Big Creek 7.3 to 10.7	Big Sandy River	RIVER	5070201	PIKE	5-PS	3	3	3	3	11/21/2003	WAH, FC, PCR, SCR
Big Mine Creek 1.4 to 3.9	Big Sandy River	RIVER	5070203	MAGOFFIN	5-PS	5-PS	5-PS	3	3	1/27/2004	WAH, FC, PCR, SCR
Big Mine Creek 5.8 to 8.4	Big Sandy River	RIVER	5070203	MAGOFFIN	5-PS	3	3	3	3	11/10/2003	WAH, FC, PCR, SCR
Big Sandy River 0.0 to 27.1	Big Sandy River	RIVER	5070204	BOYD	5-PS	2-FS	3	2-FS	3	1/20/2004	WAH, FC, PCR, SCR
Bill D Branch 0.0 to 1.1	Big Sandy River	RIVER	5070203	KNOTT	5-NS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Blackberry Creek 1.2 to 5.9	Big Sandy River	RIVER	5070201	PIKE	2-FS	3	3	3	3	7/30/2004	WAH, FC, PCR, SCR
Blaine Creek 35.0 to 40.8	Big Sandy River	RIVER	5070204	LAWRENCE	2-FS	5-NS	3	3	3	1/20/2004	WAH, FC, PCR, SCR
Blaine Creek 41.6 to 43.0	Big Sandy River	RIVER	5070204	LAWRENCE	5-PS	3	3	3	3	11/25/2002	WAH, FC, PCR, SCR
Blaine Creek 44.0 to 48.4	Big Sandy River	RIVER	5070204	LAWRENCE	5-NS	5-NS	5-NS	3	3	2/12/2004	WAH, FC, PCR, SCR
Blaine Creek 8.1 to 17.4	Big Sandy River	RIVER	5070204	LAWRENCE	5-NS	2-FS	3	3	3	11/13/2003	WAH, FC, PCR, SCR
Brushy Fork 0.0 to 10.0	Big Sandy River	RIVER	5070203	PIKE	5-NS	3	3	3	3	7/30/2004	WAH, FC, PCR, SCR
Buck Branch 0.0 to 2.8	Big Sandy River	RIVER	5070203	FLOYD	5-NS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Buffalo Creek 0.0 to 1.8	Big Sandy River	RIVER	5070203	FLOYD	5-NS	3	3	3	3	7/30/2004	WAH, FC, PCR, SCR
Caleb Fork 0.0 to 1.2	Big Sandy River	RIVER	5070203	FLOYD	5-NS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Caney Fork 0.0 to 7.5	Big Sandy River	RIVER	5070203	KNOTT	2-FS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Cat Fork 0.0 to 6.7	Big Sandy River	RIVER	5070204	LAWRENCE	2-FS	3	3	3	3	2/12/2004	WAH, FC, PCR, SCR
Clear Creek 0.0 to 4.9	Big Sandy River	RIVER	5070203	FLOYD	5-NS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Coldwater Fork 2.1 to 8.8	Big Sandy River	RIVER	5070201	MARTIN	5-PS	3	3	3	3	11/17/2003	WAH, FC, PCR, SCR
Dewey Lake	Big Sandy River	RESERVOIR	5070203	FLOYD	2-FS	3	5-PS	3	3	3/5/2003	WAH, FC, PCR, SCR
Dry Creek 0.0 to 4.0	Big Sandy River	RIVER	5070203	KNOTT	5-PS	3	3	3	3	12/10/2003	CAH, FC, PCR, SCR
Elkhorn Creek 0.0 to 10.6	Big Sandy River	RIVER	5070202	PIKE	5-PS	5-NS	3	3	3	1/20/2004	WAH, FC, PCR, SCR
Fishtrap Reservoir	Big Sandy River	RESERVOIR	5070202	PIKE	2-FS	3	2-FS	2-FS	3	3/5/2002 - 1/31/2008	WAH, FC, PCR, SCR
Frasure Creek 0.0 to 5.2	Big Sandy River	RIVER	5070203	FLOYD	5-PS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Georges Creek 0.0 to 0.9	Big Sandy River	RIVER	5070203	LAWRENCE	5-PS	3	3	3	3	7/30/2004	WAH, FC, PCR, SCR
Georges Creek 0.9 to 6.5	Big Sandy River	RIVER	5070203	JOHNSON	2-FS	3	3	3	3	11/17/2003	WAH, FC, PCR, SCR
Goose Creek 0.0 to 2.2	Big Sandy River	RIVER	5070203	FLOYD	5-NS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Greasy Creek 0.0 to 4.8	Big Sandy River	RIVER	5070203	JOHNSON	5-PS	3	3	3	3	7/30/2004	WAH, FC, PCR, SCR
Griffin Creek 0.0 to 2.5	Big Sandy River	RIVER	5070203	LAWRENCE	2-FS	3	3	3	3	7/30/2004	CAH, FC, PCR, SCR
Hobbs Fork 0.0 to 2.0	Big Sandy River	RIVER	5070201	MARTIN	2-FS	3	3	3	3	1/27/2004	WAH, FC, PCR, SCR
Hobbs Fork 2.0 to 3.8	Big Sandy River	RIVER	5070201	MARTIN	2-FS	3	3	3	3	11/21/2003	WAH, FC, PCR, SCR
Hood Creek 0.0 to 3.6	Big Sandy River	RIVER	5070204	LAWRENCE	5-PS	3	3	3	3	1/27/2004	WAH, FC, PCR, SCR
Hood Creek 3.6 to 5.4	Big Sandy River	RIVER	5070204	LAWRENCE	2-FS	3	3	3	3	11/21/2003	WAH, FC, PCR, SCR
Ice Dam Creek 0.0 to 0.4	Big Sandy River	RIVER	5070204	BOYD	5-NS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR, DWS
Ice Dam Creek 0.4 to 2.4	Big Sandy River	RIVER	5070204	BOYD	5-NS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Indian Creek 0.0 to 3.5	Big Sandy River	RIVER	5070202	PIKE	5-PS	3	3	3	3	11/13/2003	WAH, FC, PCR, SCR, DWS
Island Creek 0.0 to 1.7	Big Sandy River	RIVER	5070203	PIKE	5-PS	3	3	3	3	11/20/2003	WAH, FC, PCR, SCR
Jacks Creek 0.0 to 4.4	Big Sandy River	RIVER	5070203	FLOYD	5-NS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Jennys Creek 5.3 to 10.8	Big Sandy River	RIVER	5070203	JOHNSON	5-NS	3	3	3	3	9/5/2003	WAH, FC, PCR, SCR
Johns Branch 0.0 to 1.6	Big Sandy River	RIVER	5070203	FLOYD	5-NS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Johns Creek 0.0 to 5.8	Big Sandy River	RIVER	5070203	FLOYD	5-NS	3	3	3	3	8/3/2003	WAH, FC, PCR, SCR
Johns Creek 24.0 to 30.7	Big Sandy River	RIVER	5070203	PIKE	5-PS	5-NS	3	2-FS	3	1/21/2004	WAH, FC, PCR, SCR
Johns Creek 34.4 to 42.5	Big Sandy River	RIVER	5070203	PIKE	5-NS	3	3	3	3	11/20/2003	WAH, FC, PCR, SCR
Johnson Branch 0.0 to 0.9	Big Sandy River	RIVER	5070202	PIKE	2-FS	3	3	3	3	10/27/2003	WAH, FC, PCR, SCR
Jones Fork 0.0 to 9.4	Big Sandy River	RIVER	5070203	KNOTT	5-PS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Knox Creek 0.0 to 7.9	Big Sandy River	RIVER	5070201	PIKE	5-PS	5-PS	3	2-FS	3	8/3/2004 - 1/31/2008	WAH, FC, PCR, SCR
Left Fork Beaver Creek 0.0 to 11.4	Big Sandy River	RIVER	5070203	FLOYD	5-PS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Left Fork Beaver Creek 13.6 to 18.7	Big Sandy River	RIVER	5070203	FLOYD	5-PS	3	3	3	3	11/17/2003	WAH, FC, PCR, SCR
Left Fork Blaine Creek 0.0 to 2.1	Big Sandy River	RIVER	5070204	LAWRENCE	5-NS	5-NS	5-NS	3	3	1/27/2004	WAH, FC, PCR, SCR
Left Fork Middle Creek 0.0 to 8.4	Big Sandy River	RIVER	5070203	FLOYD	5-NS	5-NS	5-NS	3	3	2/3/2004	WAH, FC, PCR, SCR
Levisa Fork 0.0 to 5.8	Big Sandy River	RIVER	5070203	LAWRENCE	2-FS	2-FS	3	3	2-FS	1/21/2004	WAH, FC, PCR, SCR
Levisa Fork 116.0 to 124.4	Big Sandy River	RIVER	5070202	PIKE	5-NS	5-PS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Levisa Fork 5.8 to 15.3	Big Sandy River	RIVER	5070203	LAWRENCE	5-PS	2-FS	3	5-PS	3	1/12/2004	WAH, FC, PCR, SCR
Levisa Fork 15.3 to 38.9	Big Sandy River	RIVER	5070203	LAWRENCE	2-FS	2-FS	3	3	3	1/25/2006	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Levisa Fork 65.2 to 99.9	Big Sandy River	RIVER	5070203	JOHNSON	2-FS	5-NS	3	3	2-FS	1/25/2006	WAH, FC, PCR, SCR
Little Cat Fork 1.1 to 3.7	Big Sandy River	RIVER	5070204	LAWRENCE	2-FS	3	3	3	3	11/20/2003	WAH, FC, PCR, SCR
Little Paint Creek 3.2 to 6.4	Big Sandy River	RIVER	5070203	JOHNSON	5-PS	3	3	3	3	11/20/2003	WAH, FC, PCR, SCR
Little Paint Creek 6.4 to 11.6	Big Sandy River	RIVER	5070203	JOHNSON	5-PS	5-NS	5-NS	3	3	2/13/2004	WAH, FC, PCR, SCR
Long Branch 0.0 to 2.0	Big Sandy River	RIVER	5070203	FLOYD	5-NS	3	3	3	3	11/12/2003	WAH, FC, PCR, SCR
Lower Elk Fork 0.4 to 2.4	Big Sandy River	RIVER	5070201	PIKE	2-FS	3	3	3	3	11/17/2003	WAH, FC, PCR, SCR
Lower Laurel Fork 0.0 to 7.9	Big Sandy River	RIVER	5070204	LAWRENCE	5-PS	3	3	3	3	2/13/2004	WAH, FC, PCR, SCR
Lower Pigeon Branch 0.6 to 1.9	Big Sandy River	RIVER	5070202	PIKE	2-FS	3	3	3	3	10/27/2003	WAH, FC, PCR, SCR
Marrowbone Creek 1.4 to 11.3	Big Sandy River	RIVER	5070202	PIKE	5-PS	3	3	3	3	11/13/2003	WAH, FC, PCR, SCR
Martin County Lake	Big Sandy River	RESERVOIR	5070201	MARTIN	2-FS	3	3	3	3	1/1/1998	WAH, FC, PCR, SCR
Middle Creek 0.0 to 4.5	Big Sandy River	RIVER	5070203	FLOYD	5-PS	3	3	3	3	8/3/2004	WAH, FC, PCR, SCR
Middle Fork Rockcastle Creek 0.0 to 16.8	Big Sandy River	RIVER	5070201	MARTIN	5-PS	3	3	3	3	11/25/2003	WAH, FC, PCR, SCR
Miller Creek 0.0 to 6.4	Big Sandy River	RIVER	5070203	JOHNSON	5-NS	3	3	3	3	11/12/2003	CAH, FC, PCR, SCR
Mud Creek 0.0 to 2.7	Big Sandy River	RIVER	5070203	FLOYD	5-NS	3	3	3	3	2/13/2004	WAH, FC, PCR, SCR
Nats Creek 0.0 to 3.1	Big Sandy River	RIVER	5070203	LAWRENCE	5-PS	3	3	3	3	8/3/2004	WAH, FC, PCR, SCR, DWS
Open Fork 6.4 to 11.3	Big Sandy River	RIVER	5070203	MORGAN	5-PS	5-NS	5-NS	3	3	1/15/2004	WAH, FC, PCR, SCR
Otter Creek 0.0 to 0.5	Big Sandy River	RIVER	5070203	FLOYD	5-NS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Paddle Creek 0.0 to 1.4	Big Sandy River	RIVER	5070204	BOYD	5-NS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Paint Creek 0.0 to 7.9	Big Sandy River	RIVER	5070203	JOHNSON	5-NS	5-NS	3	3	3	11/13/2003	WAH, FC, PCR, SCR
Paintsville Reservoir	Big Sandy River	RESERVOIR	5070203	JOHNSON	2-FS	3	3	5-PS	3	3/5/2003	WAH, FC, PCR, SCR
Panther Fork 0.0 to 3.72	Big Sandy River	RIVER	5070201	MARTIN	5-PS	3	3	3	3	11/25/2003	CAH, FC, PCR, SCR
Peter Creek 0.0 to 5.8	Big Sandy River	RIVER	5070201	PIKE	5-NS	3	3	3	3	8/3/2004	WAH, FC, PCR, SCR
Pigeonroost Fork 0.0 to 1.3	Big Sandy River	RIVER	5070201	MARTIN	5-NS	3	3	3	3	8/3/2004	WAH, FC, PCR, SCR
Pond Creek 3.4 To 9.7	Big Sandy River	RIVER	5070201	PIKE	5-PS	3	3	3	3	11/17/2003	WAH, FC, PCR, SCR
Prater Creek 0.0 to 4.8	Big Sandy River	RIVER	5070203	FLOYD	2-FS	3	3	3	3	2/16/2004	WAH, FC, PCR, SCR
Puncheon Branch 0.0 to 3.6	Big Sandy River	RIVER	5070203	KNOTT	5-PS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Raccoon Creek 5.6 to 7.4	Big Sandy River	RIVER	5070203	PIKE	5-PS	3	3	3	3	11/17/2003	WAH, FC, PCR, SCR
Right Fork Beaver Creek 0.0 to 17.4	Big Sandy River	RIVER	5070203	FLOYD	5-PS	5-NS	5-NS	3	3	11/13/2003	WAH, FC, PCR, SCR
Right Fork Beaver Creek 30.3 to 33.4	Big Sandy River	RIVER	5070203	KNOTT	5-PS	3	3	3	3	11/17/2003	WAH, FC, PCR, SCR
Robinson Creek 0.0 to 2.1	Big Sandy River	RIVER	5070202	PIKE	2-FS	3	3	3	3	8/14/2002	WAH, FC, PCR, SCR
Rock Fork 0.0 to 7.0	Big Sandy River	RIVER	5070203	FLOYD	5-PS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Rockcastle Creek 0.0 to 3.7	Big Sandy River	RIVER	5070201	LAWRENCE	5-PS	2-FS	3	3	3	11/20/2003	WAH, FC, PCR, SCR
Rockcastle Creek 13.25 to 15.3	Big Sandy River	RIVER	5070201	MARTIN	5-NS	3	3	3	3	8/3/2004	WAH, FC, PCR, SCR
Rockcastle Creek 3.7 to 13.25	Big Sandy River	RIVER	5070201	MARTIN	5-PS	3	3	2-FS	3	1/14/2004	WAH, FC, PCR, SCR
Rockhouse Fork 0.0 to 6.3	Big Sandy River	RIVER	5070201	MARTIN	5-PS	3	3	3	3	11/12/2003	WAH, FC, PCR, SCR
Russell Fork 0.0 to 4.2	Big Sandy River	RIVER	5070202	PIKE	2-FS	5-NS	3	3	3	1/16/2004	WAH, FC, PCR, SCR, DWS
Russell Fork 12.9 to 16.0	Big Sandy River	RIVER	5070202	PIKE	3	3	3	3	2-FS	1/15/2004	WAH, FC, PCR, SCR
Russell Fork 6.2 to 9.2	Big Sandy River	RIVER	5070202	PIKE	2-FS	3	3	3	3	11/25/2003	WAH, FC, PCR, SCR
Salisbury Branch 0.0 to 1.8	Big Sandy River	RIVER	5070203	KNOTT	5-PS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Salt Lick Creek 0.0 to 6.8	Big Sandy River	RIVER	5070203	FLOYD	5-PS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Shelby Creek 0.0 to 6.1	Big Sandy River	RIVER	5070202	PIKE	5-PS	2-FS	3	3	3	11/25/2003	WAH, FC, PCR, SCR
Shelby Creek 6.1 to 13.3	Big Sandy River	RIVER	5070202	PIKE	5-PS	3	3	3	3	8/14/2002	WAH, FC, PCR, SCR
Simpson Branch 0.0 to 1.8	Big Sandy River	RIVER	5070203	FLOYD	5-PS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Sizemore Branch 0.0 to 2.0	Big Sandy River	RIVER	5070203	FLOYD	5-NS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Spewing Camp Branch 0.0 to 3.1	Big Sandy River	RIVER	5070203	FLOYD	5-NS	5-NS	5-NS	3	3	2/6/2004	WAH, FC, PCR, SCR
Steele Creek 0.0 to 2.4	Big Sandy River	RIVER	5070203	FLOYD	5-NS	3	3	3	3	12/12/2003	WAH, FC, PCR, SCR, DWS
Stephens Branch 0.0 to 2.6	Big Sandy River	RIVER	5070203	FLOYD	5-NS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR, DWS
Sturgeon Branch 0.0 to above 1.1	Big Sandy River	RIVER	5070203	JOHNSON	3	3	3	3	3		WAH, FC, PCR, SCR
Toms Branch 0.0 to 1.6	Big Sandy River	RIVER	5070202	PIKE	2-FS	3	3	3	3	10/27/2003	WAH, FC, PCR, SCR
Toms Creek 0.0 to 8.0	Big Sandy River	RIVER	5070203	JOHNSON	5-PS	3	3	3	3	8/3/2004	WAH, FC, PCR, SCR
Tug Fork 0.0 to 10.2	Big Sandy River	RIVER	5070201	LAWRENCE	2-FS	2-FS	3	3	3	1/20/2004	WAH, FC, PCR, SCR
Tug Fork 71.9 to 77.7	Big Sandy River	RIVER	5070201	MARTIN	2-FS	3	3	5-PS	3	11/25/2003	WAH, FC, PCR, SCR
Tug Fork 78.25 to 84.4	Big Sandy River	RIVER	5070201	PIKE	2-FS	5-NS	3	3	3	1/20/2004	WAH, FC, PCR, SCR
Tug Fork 10.2 to 41.6	Big Sandy River	RIVER	5070201	MARTIN	2-FS	5-NS	3	3	3	1/20/2004	WAH, FC, PCR, SCR
Turkey Creek 0.0 to 5.9	Big Sandy River	RIVER	5070203	FLOYD	5-NS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Upper Pidgeon Branch 0.0 to 2.1	Big Sandy River	RIVER	5070202	PIKE	5-NS	3	3	3	3	10/27/2003	CAH, FC, PCR, SCR
Whites Creek 0.6 to 3.5	Big Sandy River	RIVER	5070204	BOYD	2-FS	3	3	3	3	9/22/2003	WAH, FC, PCR, SCR
Wilson Creek 0.0 to 2.9	Big Sandy River	RIVER	5070203	FLOYD	5-NS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Wolf Creek 0.0 to 6.5	Big Sandy River	RIVER	5070201	MARTIN	5-PS	5-NS	3	3	3	1/16/2004	WAH, FC, PCR, SCR
Wolf Creek 17.6 to 20.5	Big Sandy River	RIVER	5070201	MARTIN	5-PS	3	3	3	3	11/25/2003	WAH, FC, PCR, SCR
Wolf Creek 6.5 to 17.6	Big Sandy River	RIVER	5070201	MARTIN	5-NS	3	3	3	3	11/25/2003	CAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Wolfpen Branch 0.0 to 1.7	Big Sandy River	RIVER	5070202	PIKE	5-NS	3	3	3	3	11/17/2003	WAH, FC, PCR, SCR
Yatesville Reservoir	Big Sandy River	RESERVOIR	5070204	LAWRENCE	2-FS	3	3	3	3	3/5/2003	WAH, FC, PCR, SCR
Adams Fork 0.0 to 4.6	Green River	RIVER	5110004	OHIO	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Adams Fork 8.9 to 9.8	Green River	RIVER	5110004	OHIO	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Alexander Creek 0.0 to 3.6	Green River	RIVER	5110001	EDMONSON	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Alexander Creek 3.6 to 7.1	Green River	RIVER	5110001	EDMONSON	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Austin Creek 2.6 to 3.6	Green River	RIVER	5110003	LOGAN	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Bacon Creek 0.2 to 17.2	Green River	RIVER	5110001	HART	2-FS	5-NS	3	2-FS	3	3/1/2003 - 10/25/2007	WAH, FC, PCR, SCR
Bacon Creek 27.1 to 32.6	Green River	RIVER	5110001	HART	2-FS	5-NS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Bacon Creek 17.2 to 27.1	Green River	RIVER	5110001	HART	5-PS	5-NS	3	3	3	2/26/2003	WAH, FC, PCR, SCR
Bacon Creek 32.6 to 33.5	Green River	RIVER	5110001	LARUE	5B-NS	5B-NS	3	3	3	10/29/2007	WAH, FC, PCR, SCR
Barnett Creek 0.0 to 3.5	Green River	RIVER	5110004	OHIO	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Barnett Creek 3.5 to 10.4	Green River	RIVER	5110004	OHIO	2-FS	3	3	3	3	10/29/2007	WAH, FC, PCR, SCR
Barren River 0.0 to 8.4	Green River	RIVER	5110002	BUTLER	2-FS	2-FS	2-FS	3	3	1/4/2008	WAH, FC, PCR, SCR
Barren River 104.9 to 119.4	Green River	RIVER	5110002	ALLEN	2-FS	5-NS	5-NS	3	3	1/4/2008	WAH, FC, PCR, SCR
Barren River 29.6 to 35.0	Green River	RIVER	5110002	WARREN	3	2-FS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Barren River 35.0 to 44.0	Green River	RIVER	5110002	WARREN	3	2-FS	3	3	2-FS	3/1/2003	WAH, FC, PCR, SCR
Barren River 8.4 to 15.1	Green River	RIVER	5110002	WARREN	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Barren River 78.9 to 79.9	Green River	RIVER	5110002	ALLEN	2-FS	3	3	3	3	10/19/2006	WAH, FC, PCR, SCR, DWS
Barren River Reservoir	Green River	RESERVOIR	5110002	ALLEN	2-FS	3	2-FS	2B(5)	3	1/28/2008	WAH, FC, PCR, SCR
Barren Run 0.0 to 6.1	Green River	RIVER	5110001	LARUE	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Bat East Creek 3.4 to 7.5	Green River	RIVER	5110003	MUHLENBERG	5-PS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR
Bat East Creek 0.0 to 3.3	Green River	RIVER	5110003	MUHLENBERG	5-PS	2-FS	3	3	3	12/17/2002	WAH, FC, PCR, SCR
Bays Fork of Barren River 6.2 to 15.5	Green River	RIVER	5110002	ALLEN	5-PS	3	3	3	3	10/1/2007	WAH, FC, PCR, SCR
Bear Creek 14.7 to 22.4	Green River	RIVER	5110001	EDMONSON	5-NS	3	3	3	3	2/28/2003	WAH, FC, PCR, SCR
Bear Creek 22.4 to 30.6	Green River	RIVER	5110001	GRAYSON	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Bear Creek 8.05 to 12.7	Green River	RIVER	5110001	EDMONSON	2-FS	2-FS	2-FS	3	3	1/22/2008	WAH, FC, PCR, SCR
Beaver Creek 16.2 to 28.6	Green River	RIVER	5110002	BARREN	2-FS	3	3	3	2-FS	3/1/2003	WAH, FC, PCR, SCR
Beaver Creek 8.5 to 15.5	Green River	RIVER	5110002	BARREN	2-FS	5-NS	3	3	3	1/18/2008	WAH, FC, PCR, SCR
Beaverdam Creek 0.0 to 14.5	Green River	RIVER	5110001	EDMONSON	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Beech Creek 0.0 to 3.9	Green River	RIVER	5110003	MUHLENBERG	4A-NS	4A-NS	4A-NS	3	3	2/14/2006	WAH, FC, PCR, SCR
Big Brush Creek 0.0 to 5.0	Green River	RIVER	5110001	GREEN	5-PS	5-NS	2-FS	3	3	10/29/2007	WAH, FC, PCR, SCR, DWS
Big Brush Creek 13.0 to 17.4	Green River	RIVER	5110001	GREEN	2-FS	3	3	3	3	10/27/2007	WAH, FC, PCR, SCR
Big Brush Creek 5.0 to 7.1	Green River	RIVER	5110001	GREEN	3	2-FS	2-FS	3	3	11/27/2007	WAH, FC, PCR, SCR
Big Brush Creek 7.1 to 13.0	Green River	RIVER	5110001	GREEN	3	5-NS	2-FS	3	3	11/27/2007	WAH, FC, PCR, SCR
Big Creek 3.9 to 9.2	Green River	RIVER	5110001	ADAIR	5-PS	5-PS	5-PS	3	3	3/1/2003 - 10/30/2007	WAH, FC, PCR, SCR
Big Pitman Creek 0.0 to 13.9	Green River	RIVER	5110001	GREEN	2-FS	2B(5)	2B(5)	3	3	10/30/2007	WAH, FC, PCR, SCR
Big Pitman Creek 27.5 to 32.6	Green River	RIVER	5110001	TAYLOR	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Big Pitman Creek 13.9 to 17.8	Green River	RIVER	5110001	GREEN	3	5-PS	2-FS	3	3	10/30/2007	WAH, FC, PCR, SCR
Big Pitman Creek 17.8 to 23.65	Green River	RIVER	5110001	TAYLOR	3	5-NS	2-FS	3	3	10/30/2007	WAH, FC, PCR, SCR
Big Reedy Creek 7.2 to 12.4	Green River	RIVER	5110001	BUTLER	5-PS	5-NS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Billy Creek 0.0 to 4.8	Green River	RIVER	5110001	HARDIN	5-PS	5-NS	3	2-FS	3	3/1/2003 - 10/30/2007	WAH, FC, PCR, SCR
Black Snake Branch 1.6 to 2.9	Green River	RIVER	5110001	TAYLOR	5-PS	3	3	3	3	10/30/2007	WAH, FC, PCR, SCR
Blacklick Creek 11.3 to 12.3	Green River	RIVER	5110002	LOGAN	5B-NS	3	3	3	3	1/15/2004	WAH, FC, PCR, SCR
Brier Creek 0.0 to 4.9	Green River	RIVER	5110006	MUHLENBERG	4A-NS	4A-NS	4A-NS	3	3	3/1/2003	WAH, FC, PCR, SCR
Briggs Lake	Green River	RESERVOIR	5110003	LOGAN	2-FS	3	2-FS	3	3	11/14/2006 - 11/14/2008	WAH, FC, PCR, SCR
Brush Creek 0.0 to 6.1	Green River	RIVER	5110001	CASEY	5-PS	3	3	3	3	10/30/2007	WAH, FC, PCR, SCR
Brush Creek 0.0 to 2.15	Green River	RIVER	5110001	GREEN	3	5-PS	2-FS	3	3	10/30/2007	WAH, FC, PCR, SCR
Brush Fork 0.0 to 4.4	Green River	RIVER	5110005	McLEAN	5-NS	5-NS	5-NS	3	3	12/17/2002	WAH, FC, PCR, SCR
Brushy Pond Creek 1.4 to 6.0	Green River	RIVER	5110004	BUTLER	2-FS	3	3	3	3	10/30/2007	WAH, FC, PCR, SCR
Buck Creek 0.0 to 8.0	Green River	RIVER	5110005	McLEAN	5-PS	5-NS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Buck Creek 1.9 to 8.1	Green River	RIVER	5110006	CHRISTIAN	5-PS	2-FS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Buck Fork 13.0 to 19.3	Green River	RIVER	5110006	CHRISTIAN	5-PS	5-NS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Buck Fork 0.0 to 5.8	Green River	RIVER	5110006	TODD	5-PS	3	3	3	3	10/31/2007	WAH, FC, PCR, SCR
Burnett Fork 0.0 to 1.3	Green River	RIVER	5110005	DAVIESS	5-PS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR
Butler Fork 2.3 to 4.0	Green River	RIVER	5110001	ADAIR	5-NS	5-NS	2-FS	3	3	10/31/2007	WAH, FC, PCR, SCR
Calhoun Creek 0.0 to 2.8	Green River	RIVER	5110001	CASEY	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Campbellsville City Reservoir	Green River	RESERVOIR	5110001	TAYLOR	2-FS	3	5-PS	3	3	11/13/2006	WAH, FC, PCR, SCR
Cane Run 0.0 to 3.7	Green River	RIVER	5110005	DAVIESS	5-PS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR
Cane Run 0.8 to 6.5	Green River	RIVER	5110001	HART	2-FS	3	3	3	3	9/14/2007	WAH, FC, PCR, SCR
Caney Creek 0.0 to 3.6	Green River	RIVER	5110003	MUHLENBERG	5-PS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Caney Creek 0.0 to 6.7	Green River	RIVER	5110004	OHIO	2-FS	2-FS	2-FS	3	3	1/23/2008	WAH, FC, PCR, SCR
Caney Creek 13.1 to 17.0	Green River	RIVER	5110004	OHIO	3	2-FS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Caney Creek 1.4 to 5.3	Green River	RIVER	5110006	MUHLENBERG	3	5-NS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Caney Creek 3.6 to 7.6	Green River	RIVER	5110003	MUHLENBERG	5-NS	3	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Caney Creek 6.7 to 13.1	Green River	RIVER	5110004	OHIO	3	2-FS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Caney Fork 0.0 to 6.7	Green River	RIVER	5110002	BARREN	2-FS	3	3	3	3	11/30/2007	WAH, FC, PCR, SCR
Caneyville City Reservoir	Green River	RESERVOIR	5110004	GRAYSON	3	3	5-PS	3	5-PS	1/1/1992	WAH, FC, PCR, SCR
Casey Creek 3.6 to 4.75	Green River	RIVER	5110001	CASEY	2-FS	2B(5)	2-FS	3	3	10/30/2007 - 1/22/2008	WAH, FC, PCR, SCR
Casey Creek 19.4 to 21.7	Green River	RIVER	5110001	CASEY	2-FS	3	3	3	3	10/31/2007	WAH, FC, PCR, SCR
Casey Creek 8.05 to 12.25	Green River	RIVER	5110001	CASEY	2-FS	3	3	3	3	10/31/2007	WAH, FC, PCR, SCR
Cash Creek 0.0 to 5.8	Green River	RIVER	5110005	HENDERSON	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Claylick Creek 4.1 to 5.3	Green River	RIVER	5110001	METCALFE	5-PS	3	3	3	3	12/3/2002	WAH, FC, PCR, SCR
Claylick Creek 2.4 to 3.4	Green River	RIVER	5110001	WARREN	5-PS	5-NS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Clear Fork Creek 0.0 to 6.0	Green River	RIVER	5110002	WARREN	2-FS	3	3	3	3	10/1/2007	WAH, FC, PCR, SCR
Clifty Creek 0.0 to 13.4	Green River	RIVER	5110003	TODD	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Clifty Creek 7.3 to 22.2	Green River	RIVER	5110004	GRAYSON	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Cox's Run 0.0 to 3.4	Green River	RIVER	5110001	HARDIN	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Craborchard Creek 0.0 to 3.4	Green River	RIVER	5110006	HOPKINS	5-NS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR
Craborchard Creek 3.4 to 7.3	Green River	RIVER	5110006	HOPKINS	4A-NS	4A-NS	4A-NS	3	3	2/29/2008	WAH, FC, PCR, SCR
Crooked Creek 0.0 to 3.0	Green River	RIVER	5110005	DAVIESS	3	5-NS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Cypress Creek 0.0 to 6.0	Green River	RIVER	5110006	McLEAN	2-FS	5-NS	5-NS	3	3	1/10/2008	WAH, FC, PCR, SCR
Cypress Creek 23.1 to 26.5	Green River	RIVER	5110006	MUHLENBERG	5-PS	5-PS	5-PS	3	3	4/1/1998	WAH, FC, PCR, SCR
Cypress Creek 26.5 to 33.3	Green River	RIVER	5110006	MUHLENBERG	5-PS	5-PS	5-PS	3	3	3/1/2003	WAH, FC, PCR, SCR
Daniels Creek 0.0 to 5.7	Green River	RIVER	5110004	BRECKINRIDGE	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Deer Creek 0.0 to 8.4	Green River	RIVER	5110005	WEBSTER	5-NS	2-FS	2-FS	3	3	1/9/2008	WAH, FC, PCR, SCR
Deer Creek 8.4 to 17.7	Green River	RIVER	5110005	WEBSTER	2B(5)	3	3	3	3	11/5/2007	WAH, FC, PCR, SCR
Deserter Creek 0.0 to 3.1	Green River	RIVER	5110005	DAVIESS	5-PS	5-NS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Dismal Creek 0.0 to 3.2	Green River	RIVER	5110001	EDMONSON	2-FS	3	3	3	3	11/5/2007	WAH, FC, PCR, SCR
Dorsey Run 2.1 to 3.9	Green River	RIVER	5110001	HARDIN	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Drakes Creek 0.0 to 23.4	Green River	RIVER	5110002	WARREN	2-FS	2-FS	2-FS	5-PS	3	1/18/2008	WAH, FC, PCR, SCR
Drakes Creek 0.0 to 9.0	Green River	RIVER	5110006	HOPKINS	4A-NS	4A-NS	4A-NS	3	3	2/14/2006	WAH, FC, PCR, SCR
Dry Creek 0.0 to 3.7	Green River	RIVER	5110001	CASEY	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
East Branch 0.0 to 1.3	Green River	RIVER	5110006	CHRISTIAN	5-PS	2-FS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
East Fork of Barren River 4.2 to 8.6	Green River	RIVER	5110002	MONROE	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
East Fork of Deer Creek 0.0 to 6.8	Green River	RIVER	5110005	WEBSTER	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
East Fork of Little Barren River 0.0 to 15.9	Green River	RIVER	5110001	METCALFE	2-FS	5-PS	5-PS	3	3	2/28/2003 - 11/30/2007	WAH, FC, PCR, SCR
East Fork of Little Barren River 18.9 to 20.7	Green River	RIVER	5110001	METCALFE	2-FS	2-FS	2-FS	3	3	10/1/2007	WAH, FC, PCR, SCR
East Fork of Little Barren River 20.7 to 30.0	Green River	RIVER	5110001	METCALFE	5-PS	5-PS	2-FS	3	3	11/30/2007	WAH, FC, PCR, SCR
East Prong of Indian Camp Creek 0.0 to 6.3	Green River	RIVER	5110003	BUTLER	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Eaton Branch 0.0 to 1.9	Green River	RIVER	5110002	BARREN	5-PS	3	3	3	3	12/3/2007	WAH, FC, PCR, SCR
Eliis Fork of Damron Creek 0.0 to 3.2	Green River	RIVER	5110001	RUSSELL	2-FS	3	3	3	3	10/1/2004	WAH, FC, PCR, SCR
Elk Creek 0.0 to 5.4	Green River	RIVER	5110006	HOPKINS	5-NS	3	3	3	3	3/1/2002	WAH, FC, PCR, SCR
Elk Creek 7.6 to 10.6	Green River	RIVER	5110006	HOPKINS	3	5-NS	3	3	3	7/16/2001	WAH, FC, PCR, SCR
Elk Lick Creek 3.6 to 11.8	Green River	RIVER	5110003	LOGAN	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Elk Pond Creek 0.0 to 4.5	Green River	RIVER	5110006	MUHLENBERG	5-NS	5-NS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Falling Timber Creek 0.0 to 6.9	Green River	RIVER	5110002	BARREN	2-FS	3	3	2-FS	3	2/28/2003 - 11/5/2007	WAH, FC, PCR, SCR
Falling Timber Creek 10.8 to 15.2	Green River	RIVER	5110002	METCALFE	2-FS	2-FS	2-FS	3	3	1/23/2008	WAH, FC, PCR, SCR
Fiddlers Creek 0.0 to 5.9	Green River	RIVER	5110004	BRECKINRIDGE	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Flat Creek 0.0 to 10.9	Green River	RIVER	5110006	HOPKINS	5-NS	5-NS	5-NS	3	3	12/17/2002 - 11/6/2007	WAH, FC, PCR, SCR
Forbes Creek 0.0 to 7.75	Green River	RIVER	5110006	CHRISTIAN	2-FS	3	3	3	3	12/3/2007	WAH, FC, PCR, SCR
Ford Ditch 0.0 to 3.3	Green River	RIVER	5110005	DAVIESS	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Freeman Lake	Green River	RESERVOIR	5110001	HARDIN	2-FS	3	2-FS	3	3	1/28/2008	WAH, FC, PCR, SCR
Gasper River 14.6 to 17.2	Green River	RIVER	5110002	LOGAN	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Gasper River 7.75 to 14.6	Green River	RIVER	5110002	WARREN	2-FS	2-FS	3	3	3	3/1/2003 - 1/18/2008	WAH, FC, PCR, SCR
Gasper River 17.2 to 35.6	Green River	RIVER	5110002	LOGAN	2-FS	3	3	3	3	11/6/2007	WAH, FC, PCR, SCR
Gilles Ditch 0.0 to 5.4	Green River	RIVER	5110005	DAVIESS	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Glens Fork 0.0 to 7.1	Green River	RIVER	5110001	ADAIR	5-PS	5-NS	5-NS	3	3	3/1/2003 - 11/6/2007	WAH, FC, PCR, SCR
Goodman Springs (9000-0230)	Green River	SPRING	5110001	HARDIN	2-FS	5-NS	3	3	3	1/25/2008	WAH, FC, PCR, SCR
Goose Creek 0.0 to 8.5	Green River	RIVER	5110001	CASEY	2-FS	3	3	3	3	11/12/2001	WAH, FC, PCR, SCR, DWS
Goren Mill Spring (9000-0793)	Green River	SPRING	5110001	HART	5-PS	5-NS	3	3	3	1/25/2008	WAH, FC, PCR, SCR
Graham Spring (9000-0051)	Green River	SPRING	5110002	WARREN	5-PS	5-PS	3	3	3	1/25/2008	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Grapevine Lake	Green River	RESERVOIR	5110006	HOPKINS	2-FS	3	2-FS	3	3	11/14/2006	WAH, FC, PCR, SCR
Grassy Creek 2.1 to 4.4	Green River	RIVER	5110004	OHIO	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Green River 109.5 to 151.2	Green River	RIVER	5110003	BUTLER	3	3	3	2-FS	2-FS	3/1/2003 - 1/8/2008	WAH, FC, PCR, SCR
Green River 151.2 to 170.4	Green River	RIVER	5110001	WARREN	2-FS	2-FS	2-FS	3	3	1/8/2008	WAH, FC, PCR, SCR
Green River 210.5 to 250.3	Green River	RIVER	5110001	HART	2-FS	2-FS	2-FS	5-PS	2-FS	3/1/2003 - 1/8/2008	WAH, FC, PCR, SCR
Green River 250.3 to 254.3	Green River	RIVER	5110001	HART	2-FS	2-FS	3	3	3	1/30/2003	WAH, FC, PCR, SCR
Green River 254.4 to 270.0	Green River	RIVER	5110001	GREEN	2-FS	2-FS	2-FS	3	3	1/8/2008	WAH, FC, PCR, SCR
Green River 270.0 to 276.2	Green River	RIVER	5110001	GREEN	2-FS	2-FS	2-FS	3	3	1/8/2008	WAH, FC, PCR, SCR
Green River 283.3 to 309.0	Green River	RIVER	5110001	TAYLOR	2-FS	5-NS	2-FS	2-FS	2-FS	1/9/2008	WAH, FC, PCR, SCR
Green River 328.5 to 344.95	Green River	RIVER	5110001	ADAIR	2-FS	2-FS	2-FS	3	3	1/9/2008	WAH, FC, PCR, SCR
Green River 359.6 to 366.6	Green River	RIVER	5110001	CASEY	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Green River 374.9 to 383.9	Green River	RIVER	5110001	LIN LN	2-FS	3	3	3	2-FS	1/9/2008	WAH, FC, PCR, SCR
Green River 46.3 to 55.2	Green River	RIVER	5110005	McLEAN	2-FS	3	3	3	2-FS	1/8/2008	WAH, FC, PCR, SCR, DWS
Green River 63.4 to 71.9	Green River	RIVER	5110005	McLEAN	3	3	3	3	2-FS	1/8/2008	WAH, FC, PCR, SCR
Green River 0.2 to 28.2	Green River	RIVER	5110005	HENDERSON	2-FS	3	3	3	3	1/7/2008	WAH, FC, PCR, SCR
Green River 276.2 to 283.2	Green River	RIVER	5110001	GREEN	3	2-FS	2-FS	2-FS	3	1/8/2008	CAH, FC, PCR, SCR
Green River 71.9 to 94.4	Green River	RIVER	5110003	MUHLENBERG	2-FS	5-PS	2-FS	2-FS	2-FS	1/8/2008	WAH, FC, PCR, SCR
Green River Reservoir	Green River	RESERVOIR	5110001	TAYLOR	2-FS	3	2-FS	5-PS	2-FS	10/23/2006	WAH, FC, PCR, SCR
Groves Creek 0.0 to 6.4	Green River	RIVER	5110005	WEBSTER	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Halls Creek 6.8 to 9.6	Green River	RIVER	5110004	OHIO	5-PS	3	3	3	3	1/28/2008	WAH, FC, PCR, SCR
Havana Creek 0.0 to 1.9	Green River	RIVER	5110005	WEBSTER	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Head of Rough River Spring 154.85 to 155.8	Green River	SPRING	5110004	HARDIN	5-PS	5-NS	3	3	3	1/25/2008	WAH, FC, PCR, SCR
Hickman Creek 0.8 to 3.2	Green River	RIVER	5110001	CASEY	3	3	3	3	2-FS	11/6/2007	WAH, FC, PCR, SCR
Indian Camp Creek 0.1 to 3.1	Green River	RIVER	5110003	BUTLER	5B-PS	2-FS	3	3	3	3/1/2003 - 11/6/2007	WAH, FC, PCR, SCR
Indian Camp Creek 3.1 to 10.4	Green River	RIVER	5110003	BUTLER	5-PS	3	3	3	3	11/6/2007	WAH, FC, PCR, SCR
Indian Creek 0.0 to 7.5	Green River	RIVER	5110003	WARREN	2-FS	3	3	3	3	3/1/2003	WAH, CAH, FC, PCR, SCR
Indian Creek 0.6 to 5.3	Green River	RIVER	5110002	MONROE	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Isaacs Creek 0.0 to 7.3	Green River	RIVER	5110006	MUHLENBERG	5-NS	5-NS	5-NS	3	3	3/1/2003	WAH, FC, PCR, SCR
Jarrels Creek 0.0 to 1.8	Green River	RIVER	5110006	MUHLENBERG	5-NS	5-NS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Jarret Fork 0.0 to 1.1	Green River	RIVER	5110004	GRAYSON	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Jenny Hollow Branch 0.0 to 2.4	Green River	RIVER	5110004	OHIO	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR, DWS
Joes Branch 0.0 to 4.4	Green River	RIVER	5110005	DAVIESS	5-PS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR, DWS
Joes Run 0.0 to 4.8	Green River	RIVER	5110005	DAVIESS	5-PS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR
Knoblick Creek 0.0 to 2.1	Green River	RIVER	5110005	DAVIESS	3	5-NS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Knoblick Creek 0.0 to 9.1	Green River	RIVER	5110005	WEBSTER	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Lake Luzerne	Green River	RESERVOIR	5110003	MUHLENBERG	2-FS	3	3	3	5-PS	1/1/1992	WAH, FC, PCR, SCR
Lake Malone	Green River	RESERVOIR	5110003	LOGAN	2-FS	3	2-FS	5-PS	2-FS	11/14/2006	WAH, FC, PCR, SCR
Lake Washburn	Green River	RESERVOIR	5110004	OHIO	2-FS	3	2-FS	3	3	11/14/2006	WAH, FC, PCR, SCR
Laurel Creek of Mud River 2.1 to 6.8	Green River	RIVER	5110003	LOGAN	2-FS	3	3	3	3	11/6/2007	WAH, FC, PCR, SCR
Lewis Creek 0.0 to 11.8	Green River	RIVER	5110003	OHIO	5-PS	2-FS	3	3	3	3/1/2001	WAH, FC, PCR, SCR
Lewisburg Lake	Green River	RESERVOIR	5110003	LOGAN	3	3	3	3	3		WAH, FC, PCR, SCR
Liberty Lake	Green River	RESERVOIR	5110001	CASEY	2-FS	3	2-FS	3	3	11/14/2006	WAH, FC, PCR, SCR
Lick Creek 0.0 to 10.2	Green River	RIVER	5110002	SIMPSON	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Lick Creek 0.0 to 3.7	Green River	RIVER	5110005	HENDERSON	5-NS	3	3	3	3	3/1/2001	WAH, FC, PCR, SCR
Lick Creek 5.0 to 13.8	Green River	RIVER	5110005	HENDERSON	5-NS	3	3	3	3	2/1/2006	WAH, FC, PCR, SCR
Linders Creek 0.0 to 7.9	Green River	RIVER	5110004	HARDIN	2-FS	3	3	3	3	10/1/2007	WAH, FC, PCR, SCR
Lindy Creek 0.0 to 0.9	Green River	RIVER	5110001	HART	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Line Creek 0.0 to 7.2	Green River	RIVER	5110002	MONROE	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Little Barren River 0.0 to 9.8	Green River	RIVER	5110001	GREEN	2-FS	2B(5)	2-FS	3	3	1/2/2008	WAH, FC, PCR, SCR
Little Barren River 9.8 to 15.7	Green River	RIVER	5110001	GREEN	3	5-NS	5-NS	3	3	1/2/2008	WAH, FC, PCR, SCR
Little Beaverdam Creek 0.0 to 11.4	Green River	RIVER	5110001	WARREN	5-PS	3	3	3	3	11/14/2007	WAH, FC, PCR, SCR
Little Brush Creek 3.2 to 13.2	Green River	RIVER	5110001	GREEN	2-FS	5-NS	2-FS	3	3	10/1/2007 - 11/14/2007	WAH, FC, PCR, SCR
Little Cypress Creek 0.0 to 10.1	Green River	RIVER	5110006	MUHLENBERG	5-PS	3	3	3	3	12/7/2002	WAH, FC, PCR, SCR
Little Muddy Creek 6.6 to 12.9	Green River	RIVER	5110002	BUTLER	5-PS	3	3	3	3	3/1/2001	WAH, FC, PCR, SCR
Little Muddy Creek 5.2 to 6.6	Green River	RIVER	5110002	BUTLER	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Little Pitman Creek 10.1 to 11.2	Green River	RIVER	5110001	TAYLOR	2-FS	5-NS	2-FS	3	3	2/5/2007	WAH, FC, PCR, SCR
Little Pitman Creek 0.0 to 10.1	Green River	RIVER	5110001	TAYLOR	2-FS	5-NS	5-PS	3	3	10/1/2007 - 11/1/2007	WAH, FC, PCR, SCR
Little Russell Creek 0.0 to 5.1	Green River	RIVER	5110001	GREEN	2-FS	5-PS	2-FS	3	3	12/6/2007	WAH, FC, PCR, SCR
Little Short Creek 0.0 to 3.1	Green River	RIVER	5110004	GRAYSON	2-FS	2-FS	3	3	3	10/1/2007	WAH, FC, PCR, SCR
Little Trammel Creek 0.0 to 2.4	Green River	RIVER	5110002	ALLEN	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Long Creek 0.0 to 3.3	Green River	RIVER	5110006	MUHLENBERG	5-PS	3	3	3	3	10/1/2007	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Long Falls Creek 0.0 to 7.6	Green River	RIVER	5110005	McLEAN	5-PS	5-NS	3	3	3	12/17/2002	WAH, FC, PCR, SCR
Long Falls Creek 7.6 to 11.8	Green River	RIVER	5110005	McLEAN	5-PS	5-NS	5-NS	3	3	3/1/2003	WAH, FC, PCR, SCR
Long Fork 0.5 to 1.7	Green River	RIVER	5110002	MONROE	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Long Lick Creek 4.6 to 7.2	Green River	RIVER	5110004	BRECKINRIDGE	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Lost River Rise (9000-0054)	Green River	SPRING	5110002	WARREN	2-FS	5-NS	3	3	3	1/24/2008	WAH, FC, PCR, SCR, DWS
Lynn Camp Creek 0.0 to 8.3	Green River	RIVER	5110001	HART	2-FS	5-NS	5-NS	3	3	12/6/2007	WAH, FC, PCR, SCR
Mahurin Spring (9000-0202)	Green River	SPRING	5110004	GRAYSON	2-FS	5-NS	3	3	3	1/24/2008	WAH, FC, PCR, SCR
McClure Fork of Bear Creek 3.1 to 4.1	Green River	RIVER	5110001	GRAYSON	5B-NS	3	3	3	3	12/6/2007	WAH, CAH, FC, PCR, SCR, DWS
McCoy Bluehole Spring (9000-0792)	Green River	SPRING	5110001	HART	2-FS	5-NS	3	3	3	1/25/2008	WAH, FC, PCR, SCR
McFarland Creek 1.5 to 5.0	Green River	RIVER	5110006	CHRISTIAN	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
McGrady Creek 0.0 to 1.9	Green River	RIVER	5110004	OHIO	5-PS	2-FS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Meadow Creek 0.0 to 0.8	Green River	RIVER	5110001	GREEN	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR, DWS
Meadow Creek 0.8 to 7.4	Green River	RIVER	5110001	GREEN	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Meeting Creek 5.2 to 14.0	Green River	RIVER	5110004	HARDIN	5-PS	3	3	3	3	12/6/2007	WAH, FC, PCR, SCR, DWS
Metcalfe County Lake	Green River	RESERVOIR	5110001	METCALFE	2-FS	3	2-FS	3	3	11/14/2006	WAH, FC, PCR, SCR
Middle Fork of Drakes Creek 0.0 to 7.8	Green River	RIVER	5110002	WARREN	5-PS	3	3	3	3	12/6/2007	WAH, FC, PCR, SCR
Middle Fork of Drakes Creek 12.0 to 18.3	Green River	RIVER	5110002	ALLEN	2-FS	3	3	3	3	12/6/2007	WAH, FC, PCR, SCR
Middle Pitman Creek 0.0 to 7.7	Green River	RIVER	5110001	GREEN	2-FS	5-NS	5-NS	3	3	12/6/2007	WAH, FC, PCR, SCR
Middle Pitman Creek 8.2 to 10.1	Green River	RIVER	5110001	TAYLOR	2-FS	5-NS	2-FS	3	3	12/6/2007	WAH, FC, PCR, SCR
Mill Creek 0.0 to 2.6	Green River	RIVER	5110001	TAYLOR	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Mill Creek 0.0 to 4.2	Green River	RIVER	5110004	OHIO	3	5-NS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Mill Creek 6.0 to 7.0	Green River	RIVER	5110002	MONROE	3	3	3	3	2-FS	12/6/2007	WAH, FC, PCR, SCR
Mill Creek Lake (Monroe County)	Green River	RESERVOIR	5110002	MONROE	2-FS	3	2-FS	3	2-FS	11/14/2006	WAH, FC, PCR, SCR
Mill Spring (9000-1193)	Green River	SPRING	5110001	GRAYSON	2-FS	5-NS	3	3	3	1/25/2008	WAH, FC, PCR, SCR
Motts Lick Creek 0.0 to 3.3	Green River	RIVER	5110003	LOGAN	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Mud River 30.9 to 52.2	Green River	RIVER	5110003	LOGAN	3	2-FS	3	5-NS	3	1/2/2008	WAH, FC, PCR, SCR
Mud River 52.2 to 64.0	Green River	RIVER	5110003	LOGAN	3	3	3	5-NS	3	3/1/2003	WAH, FC, PCR, SCR
Mud River 9.1 to 30.9	Green River	RIVER	5110003	MUHLENBERG	5-NS	2-FS	2-FS	5-NS	3	1/2/2008	WAH, FC, PCR, SCR
Mud River 0.0 to 9.1	Green River	RIVER	5110003	MUHLENBERG	3	3	3	5-NS	3	12/6/2007	WAH, FC, PCR, SCR
Muddy Creek 0.0 to 5.9	Green River	RIVER	5110003	BUTLER	2-FS	5-PS	3	3	3	1/18/2008	WAH, FC, PCR, SCR
Muddy Creek 1.9 to 4.9	Green River	RIVER	5110004	OHIO	5-NS	2-FS	3	3	3	2/28/2003	WAH, FC, PCR, SCR
Muddy Creek 5.8 to 9.1	Green River	RIVER	5110004	OHIO	5-PS	3	3	3	3	2/19/2008	WAH, FC, PCR, SCR
Muddy Creek 8.6 to 15.2	Green River	RIVER	5110003	BUTLER	5-PS	3	3	3	3	12/6/2007	WAH, FC, PCR, SCR
Muddy Creek 9.1 to 15.5	Green River	RIVER	5110004	OHIO	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Muddy Creek 0.0 to 5.0	Green River	RIVER	5110004	OHIO	5-PS	3	3	3	3	8/2/2003	WAH, FC, PCR, SCR, DWS
Muddy Fork 0.0 to 4.6	Green River	RIVER	5110006	MUHLENBERG	2-FS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR
Narge Creek 2.6 to 4.1	Green River	RIVER	5110006	HOPKINS	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
No Creek 0.5 to 9.2	Green River	RIVER	5110004	OHIO	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Nolin River 88.2 to 98.5	Green River	RIVER	5110001	HARDIN	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Nolin River 0.0 to 7.7	Green River	RIVER	5110001	EDMONSON	2-FS	3	3	3	3	10/25/2007	WAH, FC, PCR, SCR
Nolin River 37.6 to 88.2	Green River	RIVER	5110001	HARDIN	2-FS	5-PS	3	2-FS	2-FS	3/1/2003 - 10/25/2007	WAH, FC, PCR, SCR
Nolin River Reservoir	Green River	RESERVOIR	5110001	GRAYSON	1-FS	1-FS	1-FS	1-FS	1-FS	10/24/2007	WAH, FC, PCR, SCR
Nolynn Spring (9000-2673)	Green River	SPRING	5110001	LARUE	5-PS	5-NS	3	3	3	1/25/2008	WAH, FC, PCR, SCR
North Branch of South Fork of Panther Creek 0.0 to 4.2	Green River	RIVER	5110005	HAN CK	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
North Fork of Barnett Creek 0.0 to 2.3	Green River	RIVER	5110004	OHIO	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
North Fork of Nolin River 3.0 to 7.0	Green River	RIVER	5110001	LARUE	5-NS	3	3	3	2-FS	12/7/2007	WAH, FC, PCR, SCR
North Fork of Panther Creek 4.2 to 9.1	Green River	RIVER	5110005	DAVIESS	5-PS	5-NS	3	3	3	3/1/2003 - 12/7/2007	WAH, FC, PCR, SCR
North Fork of Panther Creek 0.0 to 4.2	Green River	RIVER	5110005	DAVIESS	2B(5)	3	3	3	3	10/1/2007	WAH, FC, PCR, SCR
North Fork of Rough River 11.5 to 14.1	Green River	RIVER	5110004	BRECKINRIDGE	2-FS	3	3	3	3	12/7/2007	WAH, FC, PCR, SCR
North Fork of Rough River 14.1 to 21.5	Green River	RIVER	5110004	BRECKINRIDGE	2-FS	3	3	3	3	10/1/2007	WAH, FC, PCR, SCR
North Fork Panther Creek 9.7 to 12.7	Green River	RIVER	5110005	DAVIESS	5-PS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR, DWS
Nortonville Lake	Green River	RESERVOIR	5110006	HOPKINS	3	3	3	2-FS	3	1/29/2008	WAH, FC, PCR, SCR
Old Panther Creek 0.4 to 5.7	Green River	RIVER	5110005	DAVIESS	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Old Panther Creek 5.7 to 8.8	Green River	RIVER	5110005	DAVIESS	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Otter Creek 0.0 to 6.3	Green River	RIVER	5110006	HOPKINS	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Panther Creek 0.1 to 3.0	Green River	RIVER	5110005	DAVIESS	5-NS	5-NS	5-NS	3	3	1/22/2008	WAH, FC, PCR, SCR
Panther Creek 17.9 to 20.4	Green River	RIVER	5110005	DAVIESS	5-NS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR
Panther Creek 0.0 to 3.6	Green River	RIVER	5110003	BUTLER	5-PS	3	3	3	3	11/2/2008	CAH, FC, PCR, SCR
Panther Creek 3.0 to 5.9	Green River	RIVER	5110005	DAVIESS	3	5-NS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Peter Creek 14.2 to 21.0	Green River	RIVER	5110002	BARREN	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Pettys Fork 0.0 to 6.1	Green River	RIVER	5110001	ADAIR	5-PS	5-PS	5-PS	3	3	3/1/2003 - 10/30/2007	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Pigeon Creek 0.0 to 3.4	Green River	RIVER	5110004	OHIO	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Pleasant Run 0.0 to 2.0	Green River	RIVER	5110006	HOPKINS	5-NS	4A-NS	4A-NS	3	3		WAH, FC, PCR, SCR
Pleasant Run 2.0 to 7.8	Green River	RIVER	5110006	HOPKINS	4A-NS	4A-NS	4A-NS	3	3	4/1/1998	WAH, FC, PCR, SCR
Plum Creek 0.0 to 1.7	Green River	RIVER	5110003	MUHLENBERG	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Plum Creek 1.7 to 3.9	Green River	RIVER	5110006	MUHLENBERG	5-NS	5-NS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Pond Creek 0.0 to 4.8	Green River	RIVER	5110003	MUHLENBERG	2-FS	2-FS	2-FS	3	3	1/18/2008	WAH, FC, PCR, SCR
Pond Creek 14.4 to 18.1	Green River	RIVER	5110003	MUHLENBERG	5-PS	4A-NS	4A-NS	3	3	12/31/2007	WAH, FC, PCR, SCR
Pond Creek 18.1 to 22.1	Green River	RIVER	5110003	MUHLENBERG	5-PS	4A-NS	4A-NS	3	3	12/31/2007	WAH, FC, PCR, SCR
Pond Creek 4.8 to 7.6	Green River	RIVER	5110003	MUHLENBERG	5-NS	2-FS	3	3	3	12/17/2002	WAH, FC, PCR, SCR
Pond Creek 7.6 to 11.7	Green River	RIVER	5110003	MUHLENBERG	5-NS	4A-NS	4A-NS	3	3	12/31/2007	WAH, FC, PCR, SCR
Pond Creek 11.7 to 14.4	Green River	RIVER	5110003	MUHLENBERG	5-NS	4A-NS	4A-NS	3	3	12/31/2007	WAH, FC, PCR, SCR
Pond Drain 0.0 to 2.3	Green River	RIVER	5110006	McLEAN	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Pond River 1.0 to 20.8	Green River	RIVER	5110006	HOPKINS	5-PS	2-FS	2-FS	3	3	1/18/2008	WAH, FC, PCR, SCR
Pond River 0.0 to 1.0	Green River	RIVER	5110006	HOPKINS	3	2-FS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Pond River 20.8 to 31.1	Green River	RIVER	5110006	MUHLENBERG	5-PS	3	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Pond River 57.7 to 61.2	Green River	RIVER	5110006	CHRISTIAN	2-FS	2-FS	2-FS	3	3	1/18/2008	WAH, FC, PCR, SCR
Pond River 61.2 to 71.4	Green River	RIVER	5110006	MUHLENBERG	5-PS	2-FS	3	3	3	3/2/2003	WAH, FC, PCR, SCR
Pond Run 0.0 to 6.8	Green River	RIVER	5110004	OHIO	2-FS	5-PS	3	3	3	10/1/2007 - 1/23/2008	WAH, FC, PCR, SCR
Poplar Grove Branch 0.0 to 3.4	Green River	RIVER	5110001	TAYLOR	3	5-NS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Puncheon Creek 0.0 to 4.3	Green River	RIVER	5110002	ALLEN	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Render Creek 0.0 to 3.6	Green River	RIVER	5110003	OHIO	5-NS	4A-NS	4A-NS	3	3	2/14/2006	WAH, FC, PCR, SCR
Rhodes Creek 0.0 to 1.9	Green River	RIVER	5110005	DAVIESS	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Rhodes Creek 0.0 to 2.2	Green River	RIVER	5110005	DAVIESS	5-NS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR
Rhodes Creek 2.2 to 7.5	Green River	RIVER	5110005	DAVIESS	5-NS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR
Richland Slough 0.0 to 4.9	Green River	RIVER	5110005	HENDERSON	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Robinson Creek 13.5 to 18.1	Green River	RIVER	5110001	TAYLOR	2-FS	3	3	3	3	10/1/2007	WAH, FC, PCR, SCR
Robinson Creek 8.8 to 10.8	Green River	RIVER	5110001	TAYLOR	5-PS	3	3	3	3	12/13/2007	WAH, FC, PCR, SCR
Rocky Creek 4.6 to 12.2	Green River	RIVER	5110003	MUHLENBERG	2-FS	3	3	3	3	10/1/2007	WAH, FC, PCR, SCR
Rough River 0.0 to 10.4	Green River	RIVER	5110004	McLEAN	5-NS	5-NS	5-PS	3	3	1/2/2007 - 1/2/2008	WAH, FC, PCR, SCR
Rough River 27.2 to 28.9	Green River	RIVER	5110004	OHIO	3	2-FS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Rough River 125.2 to 149.4	Green River	RIVER	5110004	HARDIN	2-FS	5-PS	3	3	3	11/12/2002 - 10/25/2007	WAH, FC, PCR, SCR
Rough River 29.8 to 30.8	Green River	RIVER	5110004	OHIO	3	3	3	3	2-FS	1/2/2008	WAH, FC, PCR, SCR
Rough River 55.1 to 64.3	Green River	RIVER	5110004	OHIO	5-NS	5-NS	5-NS	3	3	1/2/2007 - 1/2/2008	WAH, FC, PCR, SCR
Rough River 87.0 to 90.3	Green River	RIVER	5110004	BRECKINRIDGE	2-FS	3	3	3	3	10/24/2007	WAH, FC, PCR, SCR
Rough River Reservoir	Green River	RESERVOIR	5110004	HARDIN	2-FS	2-FS	2-FS	5-PS	2-FS	10/23/2007	WAH, FC, PCR, SCR
Round Stone Creek 0.0 to 10.2	Green River	RIVER	5110001	HART	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Russell Creek 0.0 to 7.2	Green River	RIVER	5110001	GREEN	2-FS	2-FS	3	3	3	12/18/2007	WAH, FC, PCR, SCR
Russell Creek 12.8 to 24.1	Green River	RIVER	5110001	GREEN	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Russell Creek 23.8 to 40.0	Green River	RIVER	5110001	ADAIR	2-FS	5-NS	5-PS	3	3	12/18/2007	WAH, FC, PCR, SCR
Russell Creek 40.0 to 42.2	Green River	RIVER	5110001	ADAIR	2-FS	5-NS	5-NS	3	3	3/1/2003 - 12/18/2007	WAH, FC, PCR, SCR
Russell Creek 42.2 to 60.4	Green River	RIVER	5110001	ADAIR	2-FS	3	3	3	2-FS	12/18/2007	WAH, FC, PCR, SCR
Russell Creek 60.4 to 66.3	Green River	RIVER	5110001	ADAIR	2-FS	5-NS	5-NS	3	3	12/18/2007	WAH, FC, PCR, SCR
Russell Creek 7.2 to 12.8	Green River	RIVER	5110001	GREEN	2-FS	2-FS	2-FS	3	3	12/18/2007	WAH, FC, PCR, SCR
Salem Lake	Green River	RESERVOIR	5110001	LARUE	2-FS	3	2B(5)	3	3	11/14/2006	WAH, FC, PCR, SCR
Salt Lick Creek 0.0 to 1.4	Green River	RIVER	5110002	WARREN	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Salt Lick Creek 0.0 to 3.7	Green River	RIVER	5110003	MUHLENBERG	2-FS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR
Salt Lick Creek 1.8 to 4.6	Green River	RIVER	5110002	MONROE	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Sand Lick Creek 0.0 to 4.0	Green River	RIVER	5110003	MUHLENBERG	5-PS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR
Shanty Hollow Lake	Green River	RESERVOIR	5110001	WARREN	2-FS	3	2-FS	3	3	11/14/2006	WAH, FC, PCR, SCR
Sixes Creek 0.0 to 7.5	Green River	RIVER	5110003	OHIO	2-FS	3	3	3	3	12/18/2007	WAH, FC, PCR, SCR
Skaggs Creek 5.5 to 23.3	Green River	RIVER	5110002	BARREN	2-FS	5-NS	3	3	3	10/22/2007	WAH, FC, PCR, SCR
Skees KW#1 (9000-1398)	Green River	SPRING	5110001	HARDIN	5-PS	5-NS	3	3	3	1/25/2008	WAH, FC, PCR, SCR
Smith Creek 0.0 to 4.4	Green River	RIVER	5110004	OHIO	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
South Fork 0.0 to 2.2	Green River	RIVER	5110001	CASEY	2-FS	3	3	3	3	3/1/2001	CAH, FC, PCR, SCR
South Fork 2.2 to 7.5	Green River	RIVER	5110001	CASEY	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
South Fork Nolin River 0.0 to 6.4	Green River	RIVER	5110001	LARUE	2-FS	3	3	3	3	3/1/2001	WAH, FC, PCR, SCR
South Fork of Beaver Creek 0.0 to 3.2	Green River	RIVER	5110002	BARREN	5-PS	3	3	3	3	10/22/2007	WAH, FC, PCR, SCR
South Fork of Little Barren River 0.0 to 23.1	Green River	RIVER	5110001	METCALFE	2-FS	5-NS	5-NS	3	3	12/18/2007	WAH, FC, PCR, SCR
South Fork of Little Barren River 23.1 to 30.1	Green River	RIVER	5110001	METCALFE	5-PS	5-PS	2-FS	3	3	12/18/2007	WAH, FC, PCR, SCR
South Fork of Panther Creek 0.0 to 2.4	Green River	RIVER	5110005	DAVIESS	5-PS	5-NS	3	3	3	1/22/2008	WAH, FC, PCR, SCR
South Fork of Panther Creek 14.0 to 18.3	Green River	RIVER	5110005	DAVIESS	3	5-NS	3	3	3	3/1/2003	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
South Fork of Panther Creek 2.4 to 9.55	Green River	RIVER	5110005	DAVIESS	5-NS	3	3	3	3	12/1/2001	WAH, FC, PCR, SCR
South Fork of Panther Creek 9.55 to 14.0	Green River	RIVER	5110005	DAVIESS	5-PS	5-NS	3	3	3	12/17/2002	WAH, FC, PCR, SCR
South Fork of Russell Creek 0.0 to 6.4	Green River	RIVER	5110001	GREEN	2-FS	2-FS	2-FS	3	3	12/19/2002 - 12/19/2007	WAH, FC, PCR, SCR
Spa Lake	Green River	RESERVOIR	5110003	LOGAN	2-FS	3	5-PS	3	3	11/14/2006	WAH, FC, PCR, SCR
Spurlington Lake	Green River	RESERVOIR	5110001	TAYLOR	2-FS	3	3	3	3	11/14/2006	WAH, FC, PCR, SCR
Sputzman Creek 1.3 to 4.4	Green River	RIVER	5110005	HENDERSON	5-PS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Sulphur Branch 0.0 to 3.0	Green River	RIVER	5110001	EDMONSON	2-FS	3	3	3	3	10/1/2007	WAH, FC, PCR, SCR
Sulphur Creek 0.0 to 10.7	Green River	RIVER	5110001	ADAIR	3	5-PS	2-FS	3	3	12/19/2007	WAH, FC, PCR, SCR
Sulphur Creek 10.7 to 15.4	Green River	RIVER	5110001	ADAIR	2-FS	3	3	3	3	12/19/2007	WAH, FC, PCR, SCR, DWS
Sulphur Fork Creek 0.0 to 5.3	Green River	RIVER	5110002	ALLEN	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Sulphur Fork Creek 5.3 to 7.9	Green River	RIVER	5110002	ALLEN	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Sunfish Creek 6.8 to 10.3	Green River	RIVER	5110001	GRAYSON	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Sweepstakes Branch 1.0 to 4.0	Green River	RIVER	5110005	DAVIESS	5-PS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR
Sycamore Creek 0.0 to 1.6	Green River	RIVER	5110001	EDMONSON	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Taylor Fork 0.0 to 4.0	Green River	RIVER	5110001	GRAYSON	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Thompson Branch 0.0 to 1.5	Green River	RIVER	5110002	SIMPSON	2-FS	3	3	3	3	9/13/2007	WAH, FC, PCR, SCR
Three Lick Fork 0.0 to 3.3	Green River	RIVER	5110004	OHIO	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Town Branch 0.0 to 6.2	Green River	RIVER	5110003	LOGAN	3	3	3	5-NS	3	12/19/2007	WAH, FC, PCR, SCR
Trace Fork of Little Pitman Creek 1.3 to 2.3	Green River	RIVER	5110001	TAYLOR	3	3	3	3	2-FS	12/19/2007	WAH, FC, PCR, SCR
Trammel Creek of Drakes Creek 0.0 to 24.0	Green River	RIVER	5110002	WARREN	2-FS	2-FS	3	3	3	1/18/2008	WAH, FC, PCR, SCR
Trammel Creek of Drakes Creek 24.0 to 30.6	Green River	RIVER	5110002	ALLEN	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Tules Creek 5.2 to 13.5	Green River	RIVER	5110004	BRECKINRIDGE	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Two Mile Creek 0.0 to 4.7	Green River	RIVER	5110005	DAVIESS	2-FS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR
Upper Brush Creek 0.0 to 2.8	Green River	RIVER	5110001	TAYLOR	3	2-FS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
UT of White Oak Creek 0.0 to 3.3	Green River	RIVER	5110001	ADAIR	2-FS	3	3	3	3	12/20/2007	WAH, FC, PCR, SCR
UT to Beaverdam Creek 0.0 to 1.3	Green River	RIVER	5110001	EDMONSON	2-FS	3	3	3	3	10/29/2007	WAH, FC, PCR, SCR
UT to Bull Run Creek 0.1 to 1.0	Green River	RIVER	5110001	CASEY	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
UT to Butler Branch 0.0 to 1.7	Green River	RIVER	5110001	ADAIR	5-PS	3	3	3	3	3/1/2001	WAH, FC, PCR, SCR
UT to Cool Springs Creek 0.0 to 1.6	Green River	RIVER	5110001	ADAIR	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
UT to Cypress Creek 0.0 to 1.4	Green River	RIVER	5110006	MUHLENBERG	5-PS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR
UT to Cypress Creek 0.0 to 8.1	Green River	RIVER	5110006	MUHLENBERG	5-PS	3	3	3	3	10/31/2007	CAH, FC, PCR, SCR
UT to Dorsey Run 0.0 to 1.0	Green River	RIVER	5110001	HARDIN	5B-NS	3	3	3	3	11/14/2007	CAH, FC, PCR, SCR
UT to Drakes Creek 0.0 to 2.2	Green River	RIVER	5110006	HOPKINS	5-PS	3	3	3	3	11/5/2007	WAH, FC, PCR, SCR
UT to Elk Creek 0.0 to 1.0	Green River	RIVER	5110006	HOPKINS	3	5-NS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
UT to Elk Creek 0.0 to 2.6	Green River	RIVER	5110006	HOPKINS	5-PS	3	3	3	3	11/5/2006	WAH, FC, PCR, SCR
UT to Flat Creek 0.0 to 3.1	Green River	RIVER	5110006	HOPKINS	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
UT to Flat Creek 3.1 to 4.1	Green River	RIVER	5110006	HOPKINS	3	5-NS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
UT to Gasper River 0.0 to 3.1	Green River	RIVER	5110002	LOGAN	2-FS	3	3	3	3	11/6/2007	WAH, FC, PCR, SCR
UT to Green River 0.0 to 0.9	Green River	RIVER	5110001	CASEY	5B-NS	3	3	3	3	12/6/2007	WAH, FC, PCR, SCR
UT to Green River 0.0 to 3.2	Green River	RIVER	5110001	ADAIR	2-FS	3	3	3	3	11/6/2007	WAH, FC, PCR, SCR
UT to Hatter Creek 1.2 to 1.8	Green River	RIVER	5110001	CASEY	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
UT to Joes Branch 0.0 to 2.8	Green River	RIVER	5110005	DAVIESS	5B-NS	3	3	3	3	11/6/2007	WAH, FC, PCR, SCR
UT to Mays Run 0.0 to 0.4	Green River	RIVER	5110004	HARDIN	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
UT to Middle Pitman Creek 0.0 to 0.6	Green River	RIVER	5110001	TAYLOR	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
UT to Nolin River 0.0 to 0.4	Green River	RIVER	5110001	EDMONSON	3	5B-NS	5B-NS	3	3	1/2/2008	WAH, FC, PCR, SCR
UT to Nolin River 0.15 to 0.9	Green River	RIVER	5110001	HARDIN	5B-NS	3	3	3	3	12/7/2007	WAH, FC, PCR, SCR
UT to North Fork of Panther Creek 0.0 to 0.7	Green River	RIVER	5110005	DAVIESS	5B-NS	3	3	3	3	12/7/2007	WAH, FC, PCR, SCR
UT to Pond Creek 0.0 to 2.4	Green River	RIVER	5110003	MUHLENBERG	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
UT to Pond Run 0.0 to 0.8	Green River	RIVER	5110004	BRECKINRIDGE	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
UT to Richland Creek 0.0 to 1.7	Green River	RIVER	5110002	BUTLER	5-NS	3	3	3	3	12/13/2007	WAH, FC, PCR, SCR
UT to South Fork of Russell Creek 0.0 to 0.6	Green River	RIVER	5110001	GREEN	4A-NS	3	3	3	3	7/31/2002	WAH, FC, PCR, SCR
UT to Tallow Creek 0.0 to 1.7	Green River	RIVER	5110001	TAYLOR	2-FS	3	3	3	3	12/21/2007	WAH, FC, PCR, SCR
UT to UT of Rays Fork 0.0 to 0.25	Green River	RIVER	5110002	WARREN	5B-NS	5B-NS	3	3	3	12/13/2007	WAH, FC, PCR, SCR, DWS
UT to Welch Creek 0.0 to 0.9	Green River	RIVER	5110003	BUTLER	5B-NS	5B-NS	3	3	3	12/19/2007	CAH, FC, PCR, SCR, DWS
UT to West Bays Fork	Green River	RIVER	5110002	ALLEN	5-PS	3	3	3	3	12/19/2007	WAH, FC, PCR, SCR, DWS
UT to West Fork of Lewis Creek 0.0 to 2.2	Green River	RIVER	5110003	OHIO	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
UT to West Prong of Indian Camp Creek 0.0 to 0.8	Green River	RIVER	5110003	OHIO	5B-NS	3	3	3	3	12/20/2007	CAH, FC, PCR, SCR, DWS
UT to Wiggington Creek 0.9 to 1.9	Green River	RIVER	5110002	LOGAN	5-NS	3	3	3	3	3/1/2003	CAH, FC, PCR, SCR, DWS
Valley Creek 0.0 to 3.6	Green River	RIVER	5110001	HARDIN	5-PS	5-NS	3	3	3	1/23/2008	WAH, FC, PCR, SCR, DWS
Valley Creek 10.8 to 12.6	Green River	RIVER	5110001	HARDIN	3	5-NS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Valley Creek 8.4 to 10.8	Green River	RIVER	5110001	HARDIN	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR, DWS

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Walters Creek 0.0 to 2.5	Green River	RIVER	5110001	LARUE	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Welch Creek 0.0 to 18.4	Green River	RIVER	5110003	BUTLER	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
West Fork of Drakes Creek 0.0 to 23.3	Green River	RIVER	5110002	SIMPSON	2-FS	2-FS	3	5-PS	3	1/4/2008 - 1/18/2008	WAH, FC, PCR, SCR
West Fork of Drakes Creek 26.7 to 32.1	Green River	RIVER	5110002	SIMPSON	2-FS	3	3	5-PS	3	12/19/2007	WAH, FC, PCR, SCR
West Fork of Drakes Creek Reservoir	Green River	RESERVOIR	5110002	SIMPSON	3	3	3	3	2-FS	1/29/2008	WAH, FC, PCR, SCR
West Fork of Pond River 1.6 to 8.7	Green River	RIVER	5110006	CHRISTIAN	5-PS	2-FS	2-FS	3	3	1/10/2008	WAH, FC, PCR, SCR
West Fork of Pond River 20.3 to 26.0	Green River	RIVER	5110006	CHRISTIAN	5-NS	3	3	3	3	12/20/2007	WAH, FC, PCR, SCR
West Fork of Pond River 8.7 to 20.3	Green River	RIVER	5110006	CHRISTIAN	2-FS	2-FS	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Wolf Branch Ditch 0.0 to 4.1	Green River	RIVER	5110005	DAVIESS	5-PS	3	3	3	3	12/17/2002	WAH, FC, PCR, SCR
Wolf Lick Creek 0.0 to 14.6	Green River	RIVER	5110003	LOGAN	5-PS	2-FS	3	3	3	1/18/2008	WAH, FC, PCR, SCR
Arnolds Creek 0.0 to 10.8	Kentucky River	RIVER	5100205	GRANT	5-PS	3	3	3	3	7/22/1999	WAH, FC, PCR, SCR
Back Creek 0.0 to 4.7	Kentucky River	RIVER	5100205	GARRARD	2-FS	3	3	3	3	9/17/1999	WAH, FC, PCR, SCR
Bailey Run 0.0 to 2.9	Kentucky River	RIVER	5100205	ANDERSON	5-PS	3	3	3	3	10/1/2004	WAH, FC, PCR, SCR, DWS
Balls Branch 0.0 to 4.9	Kentucky River	RIVER	5100205	BOYLE	3	5-NS	3	3	3	1/31/2008	WAH, FC, PCR, SCR
Balls Fork 8.3 to 11.3	Kentucky River	RIVER	5100201	KNOTT	5-NS	3	3	3	3	9/17/1999	WAH, FC, PCR, SCR
Baughman Creek 0.0 to 4.6	Kentucky River	RIVER	5100205	LINCOLN	3	5-NS	3	3	3	2/1/2008	WAH, FC, PCR, SCR
Baughman Fork 0.0 to 2.7	Kentucky River	RIVER	5100205	FAYETTE	4A-PS	3	3	2-FS	3	12/15/1999	WAH, FC, PCR, SCR
Baughman Fork 3.4 to 5.9	Kentucky River	RIVER	5100205	FAYETTE	2-FS	3	3	2-FS	3	12/29/1999	WAH, FC, PCR, SCR
Beals Run 0.0 to 1.9	Kentucky River	RIVER	5100205	WOODFORD	5-NS	3	3	3	3	3/3/2005	WAH, FC, PCR, SCR
Beech Fork 0.0 to 8.0	Kentucky River	RIVER	5100202	LESLIE	2-FS	3	3	2-FS	3	12/29/1999	WAH, FC, PCR, SCR
Beech Fork Reservoir	Kentucky River	RESERVOIR	5100204	POWELL	3	3	3	3	2-FS	3/18/2005	WAH, FC, PCR, SCR
Benson Creek 0.0 to 4.6	Kentucky River	RIVER	5100205	FRANKLIN	5-PS	3	3	3	3	7/23/1999	WAH, FC, PCR, SCR
Benson Creek 22.1 to 25.7	Kentucky River	RIVER	5100205	ANDERSON	2-FS	3	3	3	3	9/17/1999	WAH, FC, PCR, SCR
Benson Creek 4.6 to 6.7	Kentucky River	RIVER	5100205	FRANKLIN	5-PS	3	3	3	3	7/23/1999	WAH, FC, PCR, SCR
Benson Creek 6.7 to 13.4	Kentucky River	RIVER	5100205	FRANKLIN	5-NS	3	3	3	3	7/23/1999	WAH, FC, PCR, SCR
Berea Water Supply Reservoir	Kentucky River	RESERVOIR	5100204	MADISON	3	3	3	3	2-FS	3/7/2005	WAH, FC, PCR, SCR
Bert Combs Lake	Kentucky River	RESERVOIR	5100203	CLAY	2-FS	3	3	3	2-FS	3/21/2004	CAH, FC, PCR, SCR
Big Calaboose Creek 0.0 to 2.2	Kentucky River	RIVER	5100204	WOLFE	2-FS	3	3	3	3	3/6/2001	WAH, FC, PCR, SCR
Big Caney Creek 0.3 to 8.0	Kentucky River	RIVER	5100201	BREATHITT	5-PS	3	3	3	3	10/25/1999	WAH, FC, PCR, SCR
Big Creek 0.0 to 3.1	Kentucky River	RIVER	5100201	PERRY	3	3	3	3	3		WAH, FC, PCR, SCR
Big Creek 0.0 to 4.3	Kentucky River	RIVER	5100203	CLAY	2-FS	3	3	3	3	12/19/1999	WAH, FC, PCR, SCR
Big Dan Branch 0.0 to 1.2	Kentucky River	RIVER	5100203	CLAY	2-FS	3	3	3	3	12/29/1999	WAH, FC, PCR, SCR
Big Double Creek 0.0 to 4.4	Kentucky River	RIVER	5100203	CLAY	2-FS	3	3	3	3	1/1/2004	CAH, FC, PCR, SCR
Big Laurel Creek 3.6 to 6.4	Kentucky River	RIVER	5100202	HARLAN	2-FS	3	3	3	3	10/4/2004	WAH, FC, PCR, SCR
Big Middle Fork Elisha Creek 0.0 to 1.5	Kentucky River	RIVER	5100203	CLAY	2-FS	3	3	3	3	1/1/2005	WAH, FC, PCR, SCR, DWS
Big Sinking Creek 0.0 to 14.1	Kentucky River	RIVER	5100204	ESTILL	2-FS	3	3	3	3	12/29/1999	CAH, FC, PCR, SCR
Big Twin Creek 0.0 to 3.8	Kentucky River	RIVER	5100205	OWEN	5-PS	3	3	3	3	7/23/1999	CAH, FC, PCR, SCR
Big Willard Creek 0.0 to 4.5	Kentucky River	RIVER	5100201	PERRY	5-NS	3	3	3	3	9/15/1999	WAH, FC, PCR, SCR
Bill Branch 0.0 to 0.3	Kentucky River	RIVER	5100202	LESLIE	2-FS	3	3	3	3	1/1/2005	WAH, FC, PCR, SCR
Billey Fork 2.6 to 8.8	Kentucky River	RIVER	5100204	LEE	2-FS	3	3	3	3	10/4/2004	WAH, FC, PCR, SCR
Black Creek 0.0 to 4.0	Kentucky River	RIVER	5100204	POWELL	2-FS	3	3	3	3	3/6/2001	WAH, FC, PCR, SCR
Blue Lick 0.0 to 4.1	Kentucky River	RIVER	5100205	LIN LN	3	5-NS	3	3	3	2/1/2008	WAH, FC, PCR, SCR
Bolen Branch 0.0 to 2.1	Kentucky River	RIVER	5100201	KNOTT	2-FS	3	3	3	3	9/20/1999	WAH, FC, PCR, SCR
Boltz Lake	Kentucky River	RESERVOIR	5100205	GRANT	5-PS	3	3	3	3	3/22/2004	WAH, FC, PCR, SCR
Boone Creek 0.0 to 7.4	Kentucky River	RIVER	5100205	FAYETTE	2-FS	3	3	3	3	3/4/2005	WAH, FC, PCR, SCR
Boone Creek 7.4 to 12.6	Kentucky River	RIVER	5100205	FAYETTE	5-PS	5-NS	3	3	3	12/15/1999	WAH, FC, PCR, SCR
Boone Fork 1.5 to 3.3	Kentucky River	RIVER	5100201	BREATHITT	2-FS	3	3	3	3	9/15/1999	WAH, FC, PCR, SCR
Brush Creek 0.0 to 6.6	Kentucky River	RIVER	5100204	POWELL	5-PS	3	3	3	3	3/2/2001	WAH, FC, PCR, SCR
Brush Creek 0.0 to 9.7	Kentucky River	RIVER	5100205	OWEN	2-FS	3	3	3	3	7/1/1999	WAH, FC, PCR, SCR
Buck Creek 0.0 to 2.3	Kentucky River	RIVER	5100204	ESTILL	2-FS	3	3	3	3	9/20/1999	WAH, FC, PCR, SCR
Buck Creek 0.0 to 4.0	Kentucky River	RIVER	5100203	OWSLEY	2-FS	3	3	3	3	7/22/1999	WAH, FC, PCR, SCR
Buck Run 0.0 to 5.7	Kentucky River	RIVER	5100205	OWEN	2-FS	3	3	3	3	1/1/2005	WAH, FC, PCR, SCR
Buckhorn Creek 2.4 to 6.8	Kentucky River	RIVER	5100201	BREATHITT	5-PS	3	3	3	3	3/4/2005	WAH, FC, PCR, SCR
Buckhorn Creek 0.0 to 2.4	Kentucky River	RIVER	5100201	BREATHITT	5-NS	5-NS	3	3	3	2/3/2006	WAH, FC, PCR, SCR
Buckhorn Lake	Kentucky River	RESERVOIR	5100202	PERRY	2-FS	3	5-PS	3	2-FS	8/15/2005	WAH, FC, PCR, SCR
Buffalo Creek 0.0 to 1.6	Kentucky River	RIVER	5100203	OWSLEY	2-FS	3	3	3	3	3/4/2005	WAH, FC, PCR, SCR
Bull Creek 0.0 to 2.0	Kentucky River	RIVER	5100203	KNOX	5-PS	3	3	3	3	7/22/1999	WAH, FC, PCR, SCR
Bull Creek 0.0 to 4.1	Kentucky River	RIVER	5100202	LESLIE	2-FS	3	3	3	3	12/13/1999	WAH, FC, PCR, SCR
Bullock Pen Creek 0.0 to 1.5	Kentucky River	RIVER	5100205	BOONE	2-FS	3	3	3	3	7/22/1999	WAH, FC, PCR, SCR
Bullock Pen Lake	Kentucky River	RESERVOIR	5100205	GRANT	5-PS	3	3	3	2-FS	3/22/2004	WAH, FC, PCR, SCR
Bullskin Creek 0.0 to 13.9	Kentucky River	RIVER	5100203	CLAY	2-FS	3	3	3	3	10/1/1999	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Campton City Lake	Kentucky River	RESERVOIR	5100204	WOLFE	2-FS	3	2-FS	3	2-FS	3/18/2005	WAH, FC, PCR, SCR
Cane Creek 0.0 to 3.1	Kentucky River	RIVER	5100204	POWELL	2-FS	5-NS	3	3	3	12/15/1999	WAH, FC, PCR, SCR
Cane Creek 0.0 to 9.5	Kentucky River	RIVER	5100201	BREATHITT	2-FS	4A-NS	3	3	3	9/15/1999	WAH, FC, PCR, SCR
Cane Run 0.0 to 3.0	Kentucky River	RIVER	5100205	SCOTT	5-NS	3	3	3	3	9/20/1999	WAH, FC, PCR, SCR
Cane Run 3.0 to 9.6	Kentucky River	RIVER	5100205	SCOTT	5-PS	5-NS	3	3	3	1/1/1999	WAH, FC, PCR, SCR
Cane Run 9.6 to 17.4	Kentucky River	RIVER	5100205	FAYETTE	5-NS	5-NS	3	3	3	1/1/1999	WAH, FC, PCR, SCR
Caney Creek 0.0 to 1.5	Kentucky River	RIVER	5100205	OWEN	5-PS	3	3	3	3	10/4/2004	WAH, FC, PCR, SCR
Canoe Creek 0.0 to 0.5	Kentucky River	RIVER	5100202	BREATHITT	2-FS	3	3	3	3	9/30/2005	WAH, FC, PCR, SCR
Carr Creek Reservoir	Kentucky River	RESERVOIR	5100201	KNOTT	5-PS	3	5-PS	3	3	8/18/2005	WAH, FC, PCR, SCR
Carr Fork 0.0 to 5.9	Kentucky River	RIVER	5100201	PERRY	3	4A-PS	4A-PS	3	3	9/30/2005	WAH, FC, PCR, SCR
Carr Fork 15.6 to 26.4	Kentucky River	RIVER	5100201	KNOTT	2-FS	5-NS	5-NS	3	3	8/19/2005	WAH, FC, PCR, SCR
Carr Fork 5.9 to 8.9	Kentucky River	RIVER	5100201	PERRY	2-FS	4A-NS	2-FS	3	3	8/18/2005	CAH, FC, PCR, SCR
Cat Creek 0.0 to 8.0	Kentucky River	RIVER	5100204	POWELL	5-PS	3	3	3	3	3/4/2005	WAH, FC, PCR, SCR
Cavanaugh Creek 0.0 to 8.8	Kentucky River	RIVER	5100204	JACKSON	2-FS	3	3	3	3	9/20/1999	WAH, FC, PCR, SCR
Cedar Creek 0.0 to 4.2	Kentucky River	RIVER	5100205	LINCOLN	2-FS	3	3	3	3	4/1/1999	WAH, FC, PCR, SCR
Cedar Creek 0.0 to 9.4	Kentucky River	RIVER	5100205	OWEN	5-PS	2-FS	2-FS	3	3	1/1/2005	WAH, FC, PCR, SCR
Cedar Creek Lake	Kentucky River	RESERVOIR	5100205	LINCOLN	2-FS	3	2-FS	5	3	6/3/2004 - 1/18/2006	WAH, FC, PCR, SCR
Chambers Fork 0.7 to 1.1	Kentucky River	RIVER	5100204	WOLFE	5-PS	3	3	3	3	10/4/2004	WAH, FC, PCR, SCR
Cherry Run 0.0 to 0.9	Kentucky River	RIVER	5100205	SCOTT	2-FS	3	3	3	3	3/4/2005	WAH, FC, PCR, SCR
Chester Creek 0.0 to 2.8	Kentucky River	RIVER	5100204	WOLFE	2-FS	3	3	3	3	3/4/2005	WAH, FC, PCR, SCR
Chimney Top Creek 0.0 to 4.4	Kentucky River	RIVER	5100204	WOLFE	2-FS	3	3	3	3	1/6/2000	WAH, FC, PCR, SCR
Clarks Creek 0.0 to 5.2	Kentucky River	RIVER	5100205	GRANT	2-FS	3	3	3	3	10/4/2004	WAH, FC, PCR, SCR
Clarks Run 0.7 to 4.0	Kentucky River	RIVER	5100205	BOYLE	5-PS	5-NS	3	3	3	11/15/2007 - 1/31/2008	WAH, FC, PCR, SCR
Clarks Run 4.0 to 6.3	Kentucky River	RIVER	5100205	BOYLE	5-NS	5-NS	3	3	3	1/31/2002 - 11/15/2007	WAH, FC, PCR, SCR
Clarks Run 6.3 to 14.3	Kentucky River	RIVER	5100205	BOYLE	5-PS	5-NS	3	3	3	9/30/2005 - 1/31/2008	WAH, FC, PCR, SCR
Claylick Creek 0.0 to 5.5	Kentucky River	RIVER	5100205	OWEN	2-FS	3	3	3	3	1/1/2000	WAH, FC, PCR, SCR
Clear Creek 0.0 to 9.0	Kentucky River	RIVER	5100205	WOODFORD	2-FS	3	3	3	3	3/4/2003	WAH, FC, PCR, SCR
Clemons Fork 2.2 to 4.8	Kentucky River	RIVER	5100201	BREATHITT	2-FS	3	3	3	3	3/4/2005	WAH, FC, PCR, SCR
Clifty Creek 0.0 to 2.0	Kentucky River	RIVER	5100204	WOLFE	2-FS	3	3	3	3	3/6/2001	WAH, FC, PCR, SCR
Coles Fork 0.0 to 5.5	Kentucky River	RIVER	5100201	BREATHITT	2-FS	3	3	2-FS	3	5/19/1998	WAH, FC, PCR, SCR
Collins Fork 2.4 to 6.3	Kentucky River	RIVER	5100203	CLAY	5-PS	3	3	3	3	12/13/1999	WAH, FC, PCR, SCR
Cope Fork 0.0 to 1.9	Kentucky River	RIVER	5100201	BREATHITT	5-PS	3	3	3	3	9/15/1999	WAH, FC, PCR, SCR
Copper Creek 2.2 to 5.0	Kentucky River	RIVER	5100205	ROCKCASTLE	5-PS	3	3	3	3	3/7/2004	WAH, FC, PCR, SCR
Copper Creek 0.0 to 2.2	Kentucky River	RIVER	5100205	LINCOLN	3	5-NS	3	3	3	2/4/2008	WAH, FC, PCR, SCR
Corinth Lake	Kentucky River	RESERVOIR	5100205	GRANT	2-FS	3	3	3	3	6/3/2004	WAH, FC, PCR, SCR
Cow Creek 0.0 to 2.7	Kentucky River	RIVER	5100204	ESTILL	2-FS	3	3	2-FS	3	12/15/1999	WAH, FC, PCR, SCR
Cow Creek 0.0 to 2.7	Kentucky River	RIVER	5100203	OWSLEY	2-FS	3	3	3	3	7/22/1999	WAH, FC, PCR, SCR
Craig Creek 0.1 to 4.0	Kentucky River	RIVER	5100205	WOODFORD	2-FS	3	3	3	3	9/20/2005	WAH, FC, PCR, SCR
Crane Creek 0.0 to 5.4	Kentucky River	RIVER	5100203	CLAY	5-PS	3	3	3	3	10/4/2004	WAH, FC, PCR, SCR
Crooked Creek 0.0 to 7.3	Kentucky River	RIVER	5100204	ESTILL	2-FS	3	3	3	3	2/2/2000	WAH, FC, PCR, SCR
Crystal Creek 0.0 to 2.3	Kentucky River	RIVER	5100201	LEE	5-PS	3	3	3	3	3/7/2004	WAH, FC, PCR, SCR
Cutshin Creek 9.7 to 10.7	Kentucky River	RIVER	5100202	LESLIE	5-PS	3	3	3	3	3/7/2003	WAH, FC, PCR, SCR
Defeated Creek 0.4 to 1.6	Kentucky River	RIVER	5100201	KNOTT	2-FS	5-NS	5-NS	3	3	9/30/2005	WAH, FC, PCR, SCR
Dix River 0.0 to 3.1	Kentucky River	RIVER	5100205	GARRARD	2-FS	3	3	3	3	2/21/2005	WAH, FC, PCR, SCR
Dix River 33.3 to 36.1	Kentucky River	RIVER	5100205	GARRARD	2-FS	5-NS	2-FS	3	3	2/23/2005 - 1/31/2008	WAH, FC, PCR, SCR
Dix River 36.1 to 43.8	Kentucky River	RIVER	5100205	GARRARD	3	5-NS	3	3	3	1/31/2008	WAH, FC, PCR, SCR
Dix River 64.3 to 73.35	Kentucky River	RIVER	5100205	LINCOLN	3	5-NS	3	3	3	1/31/2008	WAH, FC, PCR, SCR
Dix River 73.35 to 78.7	Kentucky River	RIVER	5100205	ROCKCASTLE	3	5-NS	3	3	3	1/31/2008	WAH, FC, PCR, SCR
Dog Fork 0.0 to 2.3	Kentucky River	RIVER	5100204	WOLFE	2-FS	3	3	3	3	1/10/2000	WAH, FC, PCR, SCR
Drakes Creek 1.15 to 7.3	Kentucky River	RIVER	5100205	LINCOLN	2-FS	5-NS	3	3	3	4/1/1999 - 2/4/2008	WAH, FC, PCR, SCR
Drennon Creek 8.7 to 12.2	Kentucky River	RIVER	5100205	HENRY	2-FS	3	3	3	3	3/7/2005	WAH, FC, PCR, SCR
Drowning Creek 0.0 to 9.45	Kentucky River	RIVER	5100204	MADISON	2-FS	3	3	3	3	1/7/2000	WAH, FC, PCR, SCR
Dry Run 0.0 to 3.1	Kentucky River	RIVER	5100205	SCOTT	5-PS	3	3	3	3	12/16/1999	WAH, FC, PCR, SCR
Duck Fork 0.0 to 4.8	Kentucky River	RIVER	5100204	LEE	2-FS	3	3	3	3	1/19/2000	WAH, FC, PCR, SCR
Eagle Creek 15.3 to 28.5	Kentucky River	RIVER	5100205	OWEN	2-FS	5-PS	2-FS	3	3	2/22/2005	WAH, FC, PCR, SCR
Eagle Creek 50.8 to 58.5	Kentucky River	RIVER	5100205	GRANT	5-PS	2-FS	2-FS	3	3	2/21/2005	WAH, FC, PCR, SCR
Eagle Creek 31.6 to 36.5	Kentucky River	RIVER	5100205	GRANT	5-NS	3	3	3	3	2/3/2006	WAH, FC, PCR, SCR
East Fork Indian Creek 0.0 to 8.5	Kentucky River	RIVER	5100204	MENIFEE	2-FS	3	3	3	3	12/1/1999	WAH, FC, PCR, SCR
East Fork Mill Creek 0.0 to 3.1	Kentucky River	RIVER	5100205	CARROLL	2-FS	3	3	3	3	7/23/1999	WAH, FC, PCR, SCR, DWS
East Fork Otter Creek 0.0 to 2.7	Kentucky River	RIVER	5100205	MADISON	5-PS	3	3	3	3	12/17/1999	WAH, FC, PCR, SCR
East Hickman Creek 12.6 to 14.0	Kentucky River	RIVER	5100205	FAYETTE	3	5-NS	3	3	3	1/20/2000	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
East Hickman Creek 4.2 to 10.2	Kentucky River	RIVER	5100205	FAYETTE	5-PS	5-NS	3	3	3	1/24/2000	WAH, FC, PCR, SCR
Edward Branch 0.0 to 1.7	Kentucky River	RIVER	5100204	MENIFEE	2-FS	3	3	3	3	3/6/2001	WAH, FC, PCR, SCR, DWS
Elisha Creek 0.8 to 1.8	Kentucky River	RIVER	5100203	LESLIE	2-FS	3	3	3	3	3/4/2005	WAH, FC, PCR, SCR
Elk Creek 0.0 to 1.6	Kentucky River	RIVER	5100205	OWEN	5-PS	3	3	3	3	9/19/1999	WAH, FC, PCR, SCR
Elkhorn Creek 0.0 to 18.2	Kentucky River	RIVER	5100205	FRANKLIN	2-FS	5	2-FS	5-PS	3	3/1/2005	WAH, FC, PCR, SCR
Elkhorn Creek 0.6 to 3.7	Kentucky River	RIVER	5100202	LESLIE	2-FS	3	3	3	3	9/30/2005	WAH, FC, PCR, SCR
Elmer Davis Lake	Kentucky River	RESERVOIR	5100205	OWEN	5-PS	3	3	3	3	6/3/2004	WAH, FC, PCR, SCR
Emily Run 0.0 to 3.9	Kentucky River	RIVER	5100205	CARROLL	2-FS	3	3	3	3	4/1/1999	WAH, FC, PCR, SCR
Evans Fork 0.0 to 3.0	Kentucky River	RIVER	5100204	ESTILL	2-FS	3	3	3	3	3/7/2005	WAH, FC, PCR, SCR
Falling Rock Branch 0.0 to 0.7	Kentucky River	RIVER	5100201	BREATHITT	2-FS	3	3	3	3	3/7/2005	WAH, FC, PCR, SCR
Fishpond Lake	Kentucky River	RESERVOIR	5100201	LETCHER	2-FS	3	3	3	3	6/3/2004	WAH, FC, PCR, SCR
Five Mile Creek 0.0 to 2.7	Kentucky River	RIVER	5100205	HENRY	2-FS	3	3	3	3	9/21/1999	WAH, FC, PCR, SCR
Flat Creek 0.0 to 7.1	Kentucky River	RIVER	5100205	FRANKLIN	5-PS	3	3	3	3	4/1/1999	WAH, FC, PCR, SCR
Four Mile Creek 0.0 to 7.4	Kentucky River	RIVER	5100205	CLARK	3	3	3	3	3		WAH, FC, PCR, SCR
Freeman Fork 0.0 to 1.4	Kentucky River	RIVER	5100202	BREATHITT	2-FS	3	3	3	3	12/17/1999	WAH, FC, PCR, SCR
Frog Branch 0.0 to 3.4	Kentucky River	RIVER	5100205	LINCOLN	3	5-NS	3	3	3	2/1/2008	WAH, FC, PCR, SCR
Frozen Creek 0.0 to 13.9	Kentucky River	RIVER	5100201	BREATHITT	5-PS	3	3	3	3	10/4/2004	WAH, FC, PCR, SCR
Game Farm Lake	Kentucky River	RESERVOIR	5100205	FRANKLIN	3	3	3	2-FS	3	1/31/2008	WAH, FC, PCR, SCR
General Butler State Park Lake	Kentucky River	RESERVOIR	5100205	CARROLL	2-FS	3	3	3	3	6/3/2004	WAH, FC, PCR, SCR
Gilberts Big Creek 0.0 to 5.1	Kentucky River	RIVER	5100203	LESLIE	2-FS	3	3	3	3	9/21/1999	WAH, FC, PCR, SCR
Gilberts Creek 0.0 to 1.2	Kentucky River	RIVER	5100205	LINCOLN	3	3	3	3	3		WAH, FC, PCR, SCR
Gilberts Creek 0.0 to 1.25	Kentucky River	RIVER	5100205	LINCOLN	3	5-NS	3	3	3	1/31/2008	WAH, FC, PCR, SCR
Gilberts Creek 0.0 to 2.6	Kentucky River	RIVER	5100205	ANDERSON	2-FS	3	3	3	3	9/20/2005	WAH, FC, PCR, SCR
Gilmore Creek 0.0 to 5.5	Kentucky River	RIVER	5100204	WOLFE	2-FS	3	3	3	3	3/7/2001	WAH, FC, PCR, SCR
Gladie Creek 0.37 to 7.28	Kentucky River	RIVER	5100204	MENIFEE	2-FS	3	3	3	3	3/7/2005	WAH, FC, PCR, SCR
Glenns Creek 0.0 to 5.2	Kentucky River	RIVER	5100205	FRANKLIN	2-FS	3	3	3	3	7/22/1998	WAH, FC, PCR, SCR
Goose Creek 0.0 to 1.8	Kentucky River	RIVER	5100205	SHELBY	5-PS	3	3	3	3	7/22/1999	WAH, FC, PCR, SCR
Goose Creek 0.0 to 8.3	Kentucky River	RIVER	5100203	CLAY	2-FS	5	2-FS	3	3	3/7/2005	WAH, FC, PCR, SCR
Goose Creek 1.85 to 4.2	Kentucky River	RIVER	5100205	SHELBY	5-PS	3	3	3	3	9/21/1999	WAH, FC, PCR, SCR
Goose Creek 18.9 to 19.9	Kentucky River	RIVER	5100203	CLAY	3	3	3	3	2-FS	3/1/2005	WAH, FC, PCR, SCR
Granny's Branch 0.0 to 2.3	Kentucky River	RIVER	5100203	CLAY	2-FS	3	3	3	3	1/10/2000	WAH, FC, PCR, SCR, DWS
Grapevine Creek 0.0 to 1.1	Kentucky River	RIVER	5100201	PERRY	5-NS	3	3	3	3	9/13/1999	WAH, FC, PCR, SCR
Grassy Run 0.0 to 6.4	Kentucky River	RIVER	5100205	GRANT	2-FS	3	3	3	3	9/16/1999	WAH, FC, PCR, SCR
Greasy Creek 0.0 to 10.0	Kentucky River	RIVER	5100202	LESLIE	2-FS	3	3	3	3	12/13/1999	WAH, FC, PCR, SCR
Greasy Creek 12.1 to 22.6	Kentucky River	RIVER	5100202	LESLIE	2-FS	3	3	3	3	9/29/1999	WAH, FC, PCR, SCR
Griers Creek 0.0 to 3.5	Kentucky River	RIVER	5100205	WOODFORD	2-FS	3	3	3	3	3/7/2005	WAH, FC, PCR, SCR
Grindstone Creek 0.1 to 1.9	Kentucky River	RIVER	5100205	FRANKLIN	2-FS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Hall Branch 0.7 to 1.2	Kentucky River	RIVER	5100205	S TT	2-FS	3	3	3	3	10/4/2004	WAH, FC, PCR, SCR
Hammons Fork 0.0 to 4.9	Kentucky River	RIVER	5100203	KNOX	2-FS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Hanging Fork of Dix River 0.0 to 15.85	Kentucky River	RIVER	5100205	LINCOLN	2-FS	5-NS	3	3	3	12/17/1999 - 2/4/2008	WAH, FC, PCR, SCR
Hanging Fork of Dix River 15.85 to 24.15	Kentucky River	RIVER	5100205	LINCOLN	2-FS	5-NS	3	3	3	7/22/1999 - 2/4/2008	WAH, FC, PCR, SCR
Hanging Fork of Dix River 24.15 to 27.6	Kentucky River	RIVER	5100205	LINCOLN	3	5-NS	3	3	3	2/4/2008	WAH, FC, PCR, SCR
Hanging Fork of Dix River 27.6 to 32.2	Kentucky River	RIVER	5100205	LIN LN	3	5-NS	3	3	3	2/4/2008	WAH, FC, PCR, SCR
Hardwick Creek 0.0 to 3.2	Kentucky River	RIVER	5100204	POWELL	2-FS	5-NS	3	3	3	12/17/1999	WAH, FC, PCR, SCR
Harris Creek 0.0 to 6.25	Kentucky River	RIVER	5100205	LINCOLN	3	5-NS	3	3	3	2/4/2008	WAH, FC, PCR, SCR
Harts Fork 3.2 to 4.2	Kentucky River	RIVER	5100205	MADISON	5B-PS	3	3	3	3	1/25/2000	WAH, FC, PCR, SCR
Hatcher Creek 0.0 to 1.2	Kentucky River	RIVER	5100204	POWELL	2-FS	3	3	3	3	3/6/2001	WAH, FC, PCR, SCR
Hatton Creek 0.0 to 4.2	Kentucky River	RIVER	5100204	POWELL	5-PS	3	3	3	3	3/2/2001	WAH, FC, PCR, SCR
Hawes Fork 0.0 to 4.4	Kentucky River	RIVER	5100201	BREATHITT	5-NS	3	3	3	3	9/10/1999	WAH, FC, PCR, SCR
Hell Creek 0.0 to 3.5	Kentucky River	RIVER	5100201	LEE	5-PS	3	3	3	3	9/15/1999	WAH, FC, PCR, SCR
Hell For Certain Creek 0.0 to 2.1	Kentucky River	RIVER	5100202	LESLIE	2-FS	3	3	3	3	12/14/1999	WAH, FC, PCR, SCR
Herrington Lake	Kentucky River	RESERVOIR	5100205	GARRARD	5-NS	2-FS	2-FS	5-PS	2-FS	3/18/2005	WAH, FC, PCR, SCR
Hickman Creek 6.0 to 25.5	Kentucky River	RIVER	5100205	JESSAMINE	5-PS	3	3	3	3	10/4/2005	WAH, FC, PCR, SCR
Hickman Creek 0.0 to 6.0	Kentucky River	RIVER	5100205	JESSAMINE	5-PS	3	3	3	3	2/3/2006	WAH, FC, PCR, SCR
Hines Creek 0.1 to 1.9	Kentucky River	RIVER	5100205	MADISON	2-FS	3	3	3	3	3/22/2005	CAH, FC, PCR, SCR
Holly Creek 0.0 to 6.2	Kentucky River	RIVER	5100201	WOLFE	5-PS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Honey Branch 0.0 to 1.4	Kentucky River	RIVER	5100202	LESLIE	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Hopper Cave Branch 0.0 to 1.8	Kentucky River	RIVER	5100204	JACKSON	2-FS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Horse Creek 0.0 to 8.3	Kentucky River	RIVER	5100203	CLAY	5-PS	3	3	3	3	10/4/2004	WAH, FC, PCR, SCR
Hoys Fork 0.0 to 3.8	Kentucky River	RIVER	5100204	ESTILL	2-FS	3	3	3	3	2/2/2000	WAH, FC, PCR, SCR
Hunting Creek 0.0 to 2.6	Kentucky River	RIVER	5100201	BREATHITT	5-NS	3	3	3	3	4/1/1999	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Indian Creek 0.0 to 5.4	Kentucky River	RIVER	5100205	CARROLL	2-FS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Indian Creek 2.6 to 7.8	Kentucky River	RIVER	5100204	MENIFEE	5-PS	3	3	3	3	10/4/2004	WAH, FC, PCR, SCR
Indian Fork 0.0 to 3.3	Kentucky River	RIVER	5100205	SHELBY	2-FS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Jessamine Creek 0.0 to 5.3	Kentucky River	RIVER	5100205	JESSAMINE	2-FS	3	3	3	3	7/1/1998	WAH, FC, PCR, SCR
John Carpenter Fork 0.0 to 1.2	Kentucky River	RIVER	5100201	BREATHITT	2-FS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Johnson Fork 0.0 to 0.5	Kentucky River	RIVER	5100204	WOLFE	5-PS	3	3	3	3	10/4/2004	WAH, FC, PCR, SCR
Judy Creek 0.0 to 1.5	Kentucky River	RIVER	5100204	POWELL	5-NS	3	3	3	3	3/2/2001	WAH, FC, PCR, SCR
Judy Creek 1.5 to 3.4	Kentucky River	RIVER	5100204	POWELL	2-FS	3	3	3	3	9/29/1999	WAH, FC, PCR, SCR
Katies Creek 0.0 to 4.0	Kentucky River	RIVER	5100203	CLAY	2-FS	3	3	3	3	10/4/2004	WAH, FC, PCR, SCR
Keens Fork 0.0 to 1.8	Kentucky River	RIVER	5100203	CLAY	2-FS	3	3	3	3	5/1/1994	WAH, FC, PCR, SCR
Kentucky River 0.3 to 11.5	Kentucky River	RIVER	5100205	OWEN	3	3	3	5-NS	3	3/9/2005	WAH, FC, PCR, SCR
Kentucky River 11.6 to 53.4	Kentucky River	RIVER	5100205	OWEN	2-FS	2-FS	3	2-FS	3	3/3/2005	WAH, FC, PCR, SCR
Kentucky River 121.0 to 121.4	Kentucky River	RIVER	5100205	MERCER	3	2-FS	3	3	2-FS	3/10/2005	CAH, FC, PCR, SCR
Kentucky River 121.4 to 138.7	Kentucky River	RIVER	5100205	GARRARD	1-FS	1-FS	1-FS	1-FS	1-FS	2/28/2005	WAH, FC, PCR, SCR
Kentucky River 154.0 to 210.0	Kentucky River	RIVER	5100205	JESSAMINE	2-FS	2B(5)	2-FS	5-PS	2-FS	3/10/2005	WAH, FC, PCR, SCR
Kentucky River 223.35 to 224.35	Kentucky River	RIVER	5100205	ESTILL	3	3	3	3	2-FS	3/10/2005	WAH, FC, PCR, SCR
Kentucky River 225.9 to 253.7	Kentucky River	RIVER	5100204	ESTILL	3	3	3	2-FS	3	3/10/2005	WAH, FC, PCR, SCR
Kentucky River 53.5 to 118.2	Kentucky River	RIVER	5100205	FRANKLIN	2-FS	2-FS	2-FS	2B(5)	2-FS	2/22/2005	WAH, FC, PCR, SCR
Knob Lick Branch 0.0 to 2.8	Kentucky River	RIVER	5100204	ESTILL	2-FS	3	3	3	3	10/6/2004	WAH, FC, PCR, SCR
Knoblick Creek 0.0 to 4.8	Kentucky River	RIVER	5100205	LINCOLN	2-FS	5-NS	3	3	3	7/22/1999 - 2/4/2008	WAH, FC, PCR, SCR
Lacy Creek 0.0 to 7.25	Kentucky River	RIVER	5100204	WOLFE	5-PS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Lake Reba	Kentucky River	RESERVOIR	5100205	MADISON	5-NS	3	3	3	3	6/3/2004	WAH, FC, PCR, SCR
Lake Vega	Kentucky River	RESERVOIR	5100205	MADISON	3	3	3	3	2-FS	3/23/2005	WAH, FC, PCR, SCR
Lanes Run 0.0 to 0.5	Kentucky River	RIVER	5100205	SCOTT	3	5B-NS	3	3	3	2/6/2006	WAH, FC, PCR, SCR
Laurel Creek 3.8 to 4.8	Kentucky River	RIVER	5100203	CLAY	5-PS	3	3	3	3	9/29/1999	WAH, FC, PCR, SCR
Laurel Fork 0.0 to 4.2	Kentucky River	RIVER	5100203	OWSLEY	2-FS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR, DWS
Leatherwood Creek 0.0 to 4.2	Kentucky River	RIVER	5100201	BREATHITT	2-FS	3	3	3	3	8/1/1998	WAH, FC, PCR, SCR
Leatherwood Creek 0.6 to 8.2	Kentucky River	RIVER	5100201	PERRY	2-FS	2-FS	3	3	3	12/21/1999	WAH, FC, PCR, SCR
Leatherwood Creek 1.7 to 3.2	Kentucky River	RIVER	5100202	PERRY	2-FS	3	3	3	3	12/17/1999	WAH, FC, PCR, SCR
LeComptes Run 0.0 to 1.9	Kentucky River	RIVER	5100205	SCOTT	2-FS	3	3	3	3	12/17/1999	WAH, FC, PCR, SCR
Lee Branch 0.0 to 1.0	Kentucky River	RIVER	5100205	WOODFORD	3	5B-PS	3	3	3	2/6/2006	WAH, FC, PCR, SCR
Left Fork Big Double Creek 0.0 to 1.5	Kentucky River	RIVER	5100203	CLAY	2-FS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Left Fork Buffalo Creek 0.0 to 3.1	Kentucky River	RIVER	5100203	OWSLEY	2-FS	3	3	3	3	12/14/1999	WAH, FC, PCR, SCR
Left Fork Elisha Creek 0.0 to 3.9	Kentucky River	RIVER	5100203	LESLIE	2-FS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Left Fork Island Creek 0.0 to 5.0	Kentucky River	RIVER	5100203	OWSLEY	5-PS	3	3	3	3	4/1/1999	WAH, FC, PCR, SCR
Left Fork Millstone Creek 1.6 to 2.9	Kentucky River	RIVER	5100201	LETCHER	5-NS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Lexington Reservoir No. 4 9 (Jacobsen Reservoir)	Kentucky River	RESERVOIR	5100205	FAYETTE	3	3	3	3	2-FS	3/7/2005	WAH, FC, PCR, SCR
Lick Creek 0.0 to 5.4	Kentucky River	RIVER	5100205	CARROLL	5-PS	3	3	3	3	10/6/2004	WAH, FC, PCR, SCR
Line Fork 9.1 to 11.6	Kentucky River	RIVER	5100201	LETCHER	5-PS	3	3	3	3	10/6/2004	WAH, FC, PCR, SCR
Line Fork 11.6 to 27.5	Kentucky River	RIVER	5100201	LETCHER	2-FS	5-PS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Little Goose Creek 0.0 to 7.6	Kentucky River	RIVER	5100203	CLAY	3	3	3	3	3		WAH, FC, PCR, SCR
Little Middle Fork Elisha Creek 0.0 to 0.75	Kentucky River	RIVER	5100203	LESLIE	2-FS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Little Millseat Branch 0.0 to 1.2	Kentucky River	RIVER	5100201	BREATHITT	2-FS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Little Sexton Creek 0.0 to 2.8	Kentucky River	RIVER	5100203	CLAY	2-FS	3	3	3	3	4/1/1999	WAH, FC, PCR, SCR
Little Sinking Creek 0.0 to 4.0	Kentucky River	RIVER	5100204	LEE	2-FS	3	3	3	3	9/30/1999	WAH, FC, PCR, SCR
Little Sixmile Creek 0.0 to 5.3	Kentucky River	RIVER	5100205	HENRY	2-FS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Little Sturgeon Creek 0.0 to 2.8	Kentucky River	RIVER	5100204	OWSLEY	2-FS	3	3	3	3	1/1/1999	WAH, FC, PCR, SCR
Little Sturgeon Creek 4.8 to 6.8	Kentucky River	RIVER	5100204	OWSLEY	2-FS	3	3	3	3	2/3/2000	WAH, FC, PCR, SCR, DWS
Little Willard Creek 0.0 to 2.5	Kentucky River	RIVER	5100201	PERRY	5-NS	3	3	3	3	10/6/2004	WAH, FC, PCR, SCR
Log Lick Creek 0.0 to 2.6	Kentucky River	RIVER	5100204	CLARK	3	3	3	3	3		WAH, FC, PCR, SCR, DWS
Logan Creek 0.0 to 3.15	Kentucky River	RIVER	5100205	LINCOLN	2-FS	5-NS	3	3	3	10/4/2005	WAH, FC, PCR, SCR
Long Fork 0.0 to 2.0	Kentucky River	RIVER	5100203	CLAY	2-FS	3	3	3	3	9/30/1999	WAH, FC, PCR, SCR
Long Fork 0.0 to 4.6	Kentucky River	RIVER	5100201	BREATHITT	5-PS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Lost Creek 0.0 to 3.7	Kentucky River	RIVER	5100201	BREATHITT	2-FS	5-NS	2-FS	3	3	2/22/2005	WAH, FC, PCR, SCR, DWS
Lost Creek 3.7 to 8.95	Kentucky River	RIVER	5100201	BREATHITT	5-NS	3	3	3	3	2/6/2006	WAH, FC, PCR, SCR
Lotts Creek 0.4 to 1.0	Kentucky River	RIVER	5100201	KNOTT	5-PS	3	3	3	3	10/6/2004	WAH, FC, PCR, SCR
Lotts Creek 1.2 to 6.0	Kentucky River	RIVER	5100201	PERRY	5-NS	3	3	3	3	2/6/2006	WAH, FC, PCR, SCR, DWS
Lower Buffalo Creek 0.0 to 2.4	Kentucky River	RIVER	5100203	OWSLEY	5-PS	3	3	3	3	4/1/1999	WAH, FC, PCR, SCR, DWS
Lower Cane Creek 0.0 to 2.6	Kentucky River	RIVER	5100204	POWELL	2-FS	3	3	3	3	3/6/2001	WAH, FC, PCR, SCR, DWS
Lower Devil Creek 0.0 to 4.5	Kentucky River	RIVER	5100201	LEE	2-FS	3	3	3	3	9/15/1999	WAH, FC, PCR, SCR
Lower Hood Branch 0.0 to 1.3	Kentucky River	RIVER	5100204	POWELL	2-FS	3	3	3	3	1/11/1998	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Lower Howard Creek 2.65 to 6.2	Kentucky River	RIVER	5100205	CLARK	5-NS	3	3	3	3	12/17/1999	WAH, FC, PCR, SCR, DWS
Lower Thomas Lake	Kentucky River	RESERVOIR	5100205	OWEN	3	3	3	3	2-FS	3/23/2005	WAH, FC, PCR, SCR, DWS
Lulbegrud Creek 0.0 to 7.3	Kentucky River	RIVER	5100204	CLARK	5-PS	3	3	2-FS	3	12/17/1999	WAH, CAH, FC, PCR, SCR
Lulbegrud Creek 16.9 to 22.2	Kentucky River	RIVER	5100204	MONTGOMERY	3	3	3	3	3		WAH, FC, PCR, SCR, DWS
Lulbegrud Creek 7.3 to 16.9	Kentucky River	RIVER	5100204	POWELL	2-FS	3	3	3	3	2/28/2001	WAH, FC, PCR, SCR
Lytles Fork 0.0 to 14.7	Kentucky River	RIVER	5100205	SCOTT	2B(5)	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Maces Creek 0.0 to 0.2	Kentucky River	RIVER	5100201	PERRY	2-FS	2-FS	3	3	3	12/21/1999	WAH, FC, PCR, SCR
Marble Creek 0.05 to 3.9	Kentucky River	RIVER	5100205	JESSAMINE	5-PS	3	3	3	3	3/10/2005	WAH, FC, PCR, SCR
McConnell Run 0.0 to 4.4	Kentucky River	RIVER	5100205	SCOTT	5-PS	3	3	3	3	12/17/1999	WAH, FC, PCR, SCR
McKinney Branch 0.0 to 1.9	Kentucky River	RIVER	5100205	LINCOLN	3	5-NS	3	3	3	2/1/2008	WAH, FC, PCR, SCR
Meadow Creek 0.5 to 3.7	Kentucky River	RIVER	5100203	OWSLEY	5-PS	3	3	3	3	10/6/2004	WAH, FC, PCR, SCR
Middle Fork Kentucky River 36.9 to 43.8	Kentucky River	RIVER	5100202	PERRY	2-FS	2-FS	2-FS	3	3	3/3/2005	WAH, FC, PCR, SCR
Middle Fork Kentucky River 6.4 to 12.6	Kentucky River	RIVER	5100202	LEE	2-FS	2-FS	2-FS	3	3	2/23/2005	WAH, FC, PCR, SCR
Middle Fork Kentucky River 75.4 to 75.9	Kentucky River	RIVER	5100202	LESLIE	3	3	3	3	2-FS	3/11/2005	WAH, FC, PCR, SCR, DWS
Middle Fork Kentucky River 75.9 to 84.3	Kentucky River	RIVER	5100202	LESLIE	2-FS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Middle Fork of Kentucky River 67.0 to 73.4	Kentucky River	RIVER	5100202	LESLIE	5-PS	5-PS	2-FS	3	3	3/3/2005	WAH, FC, PCR, SCR
Middle Fork Quicksand Creek 0.0 to 10.0	Kentucky River	RIVER	5100201	KNOTT	2-FS	3	3	3	3	9/20/1999	WAH, FC, PCR, SCR
Middle Fork Red River 12.9 to 15.4	Kentucky River	RIVER	5100204	WOLFE	2-FS	3	3	3	3	3/23/2005	WAH, FC, PCR, SCR
Middle Fork, Kentucky River 61.5 to 64.2	Kentucky River	RIVER	5100202	LESLIE	2-FS	5-NS	5-NS	3	3	8/16/2005	WAH, FC, PCR, SCR
Mill Creek 0.0 to 3.3	Kentucky River	RIVER	5100201	LETCHER	5-NS	3	3	3	3	10/7/2004	WAH, FC, PCR, SCR
Mill Creek 0.0 to 5.7	Kentucky River	RIVER	5100205	CARROLL	2-FS	3	3	3	3	4/1/1999	WAH, FC, PCR, SCR
Mill Creek 0.5 to 8.3	Kentucky River	RIVER	5100205	OWEN	2-FS	3	3	3	3	3/23/2005	WAH, FC, PCR, SCR
Mill Creek Lake (Powell County)	Kentucky River	RESERVOIR	5100204	POWELL	2-FS	3	3	3	2-FS	6/3/2004	WAH, FC, PCR, SCR
Millers Creek 0.0 to 6.7	Kentucky River	RIVER	5100204	LEE	2-FS	2-FS	3	3	3	12/17/1999	WAH, FC, PCR, SCR
Millseat Branch 0.0 to 1.85	Kentucky River	RIVER	5100201	BREATHITT	2-FS	3	3	3	3	3/23/2005	WAH, FC, PCR, SCR
Mocks Branch 1.6 to 5.7	Kentucky River	RIVER	5100205	BOYLE	5-PS	3	3	3	3	3/11/2005	WAH, FC, PCR, SCR
Morris Creek 0.1 to 3.7	Kentucky River	RIVER	5100204	POWELL	3	3	3	3	3		WAH, FC, PCR, SCR
Moseby Branch 0.0 to 2.2	Kentucky River	RIVER	5100205	OWEN	5-NS	3	3	3	3	9/16/1999	WAH, FC, PCR, SCR
Muddy Creek 0.0 to 20.2	Kentucky River	RIVER	5100205	MADISON	2-FS	5-NS	3	2-FS	3	12/1/1999	WAH, FC, PCR, SCR
Muddy Creek 20.2 to 29.2	Kentucky River	RIVER	5100205	MADISON	2-FS	3	3	3	3	1/2/2000	WAH, FC, PCR, SCR
Muncy Creek 2.7 to 4.7	Kentucky River	RIVER	5100202	LESLIE	5-NS	3	3	3	3	9/30/2004	WAH, FC, PCR, SCR
Musselman Creek 0.0 to 9.0	Kentucky River	RIVER	5100205	GRANT	2-FS	3	3	3	3	3/23/2005	WAH, FC, PCR, SCR
N. Elkhorn Creek 66.0 to 73.75	Kentucky River	RIVER	5100205	FAYETTE	5-PS	5-NS	3	3	3	10/4/2005	WAH, FC, PCR, SCR
Noland Creek 0.05 to 1.2	Kentucky River	RIVER	5100204	ESTILL	5-PS	3	3	3	3	3/11/2005	WAH, FC, PCR, SCR
North Benson Creek 0.8 to 2.0	Kentucky River	RIVER	5100205	FRANKLIN	5-PS	3	3	3	3	4/1/1999	WAH, FC, PCR, SCR
North Elkhorn Creek 0.7 to 7.4	Kentucky River	RIVER	5100205	FRANKLIN	2-FS	3	3	3	3	7/24/2003	WAH, FC, PCR, SCR
North Elkhorn Creek 33.6 to 34.6	Kentucky River	RIVER	5100205	SCOTT	3	3	3	3	2-FS	3/11/2005	WAH, FC, PCR, SCR
North Fork Lulbegrud Creek 0.0 to 2.4	Kentucky River	RIVER	5100204	MONTGOMERY	2-FS	3	3	3	3	3/2/2001	WAH, FC, PCR, SCR
North Fork North Benson Creek 0.0 to 2.2	Kentucky River	RIVER	5100205	FRANKLIN	5-PS	3	3	3	3	4/1/1999	WAH, FC, PCR, SCR
North Fork of Kentucky River 1.3 to 2.3	Kentucky River	RIVER	5100201	LEE	3	4A-NS	3	3	2-FS	3/11/2005	WAH, FC, PCR, SCR
North Fork of Kentucky River 104.1 to 105.1	Kentucky River	RIVER	5100201	PERRY	3	4A-NS	3	3	2-FS	3/14/2005	WAH, FC, PCR, SCR
North Fork of Kentucky River 131.0 to 132.0	Kentucky River	RIVER	5100201	LETCHER	3	4A-NS	3	3	2-FS	3/14/2005	WAH, FC, PCR, SCR
North Fork of Kentucky River 145.5 to 147.9	Kentucky River	RIVER	5100201	LETCHER	5-NS	4A-NS	3	3	3	9/26/2005	WAH, FC, PCR, SCR
North Fork of Kentucky River 147.9 to 162.0	Kentucky River	RIVER	5100201	LETCHER	5-NS	4A-NS	3	3	2-FS	3/14/2005	WAH, FC, PCR, SCR
North Fork of Kentucky River 2.3 to 35.6	Kentucky River	RIVER	5100201	LEE	3	4A-NS	3	2-FS	3	3/11/2005	WAH, FC, PCR, SCR
North Fork of Kentucky River 35.6 to 47.2	Kentucky River	RIVER	5100201	BREATHITT	2-FS	4A-NS	2-FS	3	3	2/22/2005	WAH, FC, PCR, SCR
North Fork of Kentucky River 47.2 to 48.2	Kentucky River	RIVER	5100201	BREATHITT	3	4A-NS	3	3	2-FS	3/14/2005	WAH, FC, PCR, SCR
North Fork of Kentucky River 48.2 to 104.1	Kentucky River	RIVER	5100201	BREATHITT	3	4A-NS	3	3	3		WAH, FC, PCR, SCR
North Fork of Kentucky River 0.0 to 1.3	Kentucky River	RIVER	5100201	LEE	3	4A-NS	3	3	3		CAH, FC, PCR, SCR
North Fork of Kentucky River 105.1 to 131.0	Kentucky River	RIVER	5100201	PERRY	3	4A-NS	3	3	3		WAH, FC, PCR, SCR
North Fork of Kentucky River 132.0 to 145.5	Kentucky River	RIVER	5100201	LETCHER	3	4A-NS	3	3	3		WAH, FC, PCR, SCR
North Severn Creek 0.0 to 2.1	Kentucky River	RIVER	5100205	OWEN	2-FS	3	3	3	3	10/7/2004	WAH, FC, PCR, SCR
Otter Creek 0.0 to 4.1	Kentucky River	RIVER	5100205	MADISON	5-PS	2-FS	2-FS	2-FS	3	2/22/2005	WAH, FC, PCR, SCR
Owsley Fork Lake	Kentucky River	RESERVOIR	5100205	MADISON	2-FS	3	3	3	2-FS	6/3/2004	WAH, FC, PCR, SCR
Paint Lick Creek 0.0 to 7.5	Kentucky River	RIVER	5100205	GARRARD	2-FS	3	3	3	3	10/25/1999	WAH, FC, PCR, SCR
Paint Lick Creek 7.5 to 22.2	Kentucky River	RIVER	5100205	MADISON	2-FS	3	3	3	3	9/16/1999	WAH, FC, PCR, SCR
Panbowl Lake	Kentucky River	RESERVOIR	5100201	BREATHITT	5-NS	3	3	3	3	6/3/2004	WAH, FC, PCR, SCR
Parched Corn Creek 0.0 to 2.2	Kentucky River	RIVER	5100204	WOLFE	2-FS	3	3	3	3	3/6/2001	WAH, FC, PCR, SCR
Peyton Creek 0.0 to 4.1	Kentucky River	RIVER	5100205	LINCOLN	3	5-NS	3	3	3	2/4/2008	WAH, FC, PCR, SCR, DWS
Plum Branch 0.0 to 3.9	Kentucky River	RIVER	5100204	POWELL	5-PS	3	3	3	3	1/1/2005	WAH, FC, PCR, SCR
Polls Creek 0.0 to 4.7	Kentucky River	RIVER	5100202	LESLIE	5-PS	3	3	3	3	9/30/1999	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Potter Fork 0.0 to 4.4	Kentucky River	RIVER	5100201	LETCHER	5-NS	3	3	3	3	9/30/1999	WAH, FC, PCR, SCR, DWS
Puncheon Camp Creek 0.0 to 3.2	Kentucky River	RIVER	5100202	BREATHITT	5-PS	3	3	3	3	12/21/1999	WAH, FC, PCR, SCR
Quicksand Creek 0.0 to 17.0	Kentucky River	RIVER	5100201	BREATHITT	5-PS	5-PS	2-FS	3	3	2/22/2005	WAH, FC, PCR, SCR
Quicksand Creek 21.7 to 30.8	Kentucky River	RIVER	5100201	BREATHITT	5-NS	3	3	3	3	2/6/2006	WAH, FC, PCR, SCR
Rattlesnake Creek 0.0 to 1.2	Kentucky River	RIVER	5100205	GRANT	5-NS	3	3	3	3	9/16/1999	WAH, FC, PCR, SCR
Red Bird River 0.0 to 15.0	Kentucky River	RIVER	5100203	CLAY	2-FS	2B(5)	2-FS	3	3	3/1/2005	WAH, FC, PCR, SCR
Red Lick Creek 0.0 to 8.4	Kentucky River	RIVER	5100204	MADISON	5-PS	5-PS	2-FS	3	3	2/22/2005	WAH, FC, PCR, SCR
Red River 21.8 to 30.7	Kentucky River	RIVER	5100204	POWELL	2-FS	2-FS	2-FS	3	3	3/3/2005	WAH, FC, PCR, SCR
Red River 31.0 to 32.0	Kentucky River	RIVER	5100204	POWELL	3	3	3	3	2-FS	3/3/2005	WAH, FC, PCR, SCR
Red River 50.1 to 60.9	Kentucky River	RIVER	5100204	POWELL	2-FS	3	3	3	3	3/14/2005	WAH, FC, PCR, SCR
Red River 64.1 to 67.6	Kentucky River	RIVER	5100204	WOLFE	5-PS	3	3	3	3	10/1/2004	WAH, FC, PCR, SCR
Red River 70.0 to 83.9	Kentucky River	RIVER	5100204	WOLFE	5-PS	3	3	3	3	10/1/2004	WAH, FC, PCR, SCR
Red River 89.5 to 93.4	Kentucky River	RIVER	5100204	WOLFE	5-PS	3	3	3	3	3/14/2005	WAH, FC, PCR, SCR
Richland Creek 0.0 to 0.8	Kentucky River	RIVER	5100205	OWEN	5-PS	3	3	3	3	1/12/2000	WAH, FC, PCR, SCR, DWS
Right Fork Big Double Creek 0.0 to 2.1	Kentucky River	RIVER	5100203	CLAY	2-FS	3	3	3	3	3/3/2005	WAH, FC, PCR, SCR
Right Fork Buffalo Creek 0.0 to 2.1	Kentucky River	RIVER	5100203	OWSLEY	5-PS	3	3	3	3	10/7/2004	WAH, FC, PCR, SCR
Right Fork Elisha Creek 0.0 to 3.3	Kentucky River	RIVER	5100203	LESLIE	2-FS	3	3	3	3	3/15/2005	WAH, FC, PCR, SCR
Right Fork Lacy Creek 0.0 to 2.2	Kentucky River	RIVER	5100204	WOLFE	5-PS	3	3	3	3	10/4/2005	WAH, FC, PCR, SCR
Right Fork Millstone Creek 0.0 to 1.6	Kentucky River	RIVER	5100201	LETCHER	5-NS	3	3	3	3	3/15/2005	WAH, FC, PCR, SCR
Roaring Fork 0.0 to 0.9	Kentucky River	RIVER	5100201	BREATHITT	2-FS	3	3	3	3	3/15/2005	WAH, FC, PCR, SCR
Rockbridge Fork 0.0 to 3.3	Kentucky River	RIVER	5100204	WOLFE	2-FS	3	3	3	3	3/15/2005	WAH, FC, PCR, SCR
Rockhouse Creek 0.0 to 3.6	Kentucky River	RIVER	5100201	LETCHER	5-PS	5-NS	3	3	3	9/20/1999	WAH, FC, PCR, SCR
Rockhouse Creek 4.0 to 5.2	Kentucky River	RIVER	5100202	LESLIE	3	3	3	3	3		WAH, FC, PCR, SCR
Rose Fork 0.0 to 3.1	Kentucky River	RIVER	5100204	WOLFE	5-NS	3	3	3	3	10/5/2005	WAH, FC, PCR, SCR
Royal Springs 0.7 to 0.73	Kentucky River	SPRING	5100205	S TT	3	3	3	3	2-FS	3/15/2005	WAH, FC, PCR, SCR
Salt Fork 0.0 to 0.8	Kentucky River	RIVER	5100204	MENIFEE	2-FS	3	3	3	3	3/6/2001	WAH, FC, PCR, SCR
Salt River of Sixmile Creek 0.0 to 4.5	Kentucky River	RIVER	5100205	HENRY	5-PS	3	3	3	3	7/22/1999	WAH, FC, PCR, SCR
Sand Lick Fork 0.0 to 5.0	Kentucky River	RIVER	5100204	POWELL	4A-NS	3	3	3	3	12/21/1999	WAH, FC, PCR, SCR
Sand Ripple Creek 0.1 to 3.9	Kentucky River	RIVER	5100205	HENRY	2-FS	3	3	3	3	3/15/2005	WAH, FC, PCR, SCR
Sawdridge Creek 0.0 to 3.35	Kentucky River	RIVER	5100205	OWEN	2-FS	3	3	3	3	3/15/2005	WAH, FC, PCR, SCR
Severn Creek 0.55 to 1.35	Kentucky River	RIVER	5100205	OWEN	3	3	3	3	2-FS	3/15/2005	WAH, FC, PCR, SCR
Severn Creek 1.35 to 3.0	Kentucky River	RIVER	5100205	OWEN	2-FS	3	3	3	3	3/15/2005	WAH, FC, PCR, SCR
Sexton Creek 0.1 to 17.2	Kentucky River	RIVER	5100203	CLAY	5-PS	2-FS	2-FS	3	3	2/22/2005	WAH, FC, PCR, SCR
Shaker Creek 0.1 to 1.4	Kentucky River	RIVER	5100205	MERCER	2-FS	3	3	3	3	3/15/2005	WAH, FC, PCR, SCR
Shallow Ford Creek 5.9 to 6.9	Kentucky River	RIVER	5100205	MADISON	5B-NS	3	3	3	3	1/26/2000	WAH, FC, PCR, SCR
Shelly Rock Fork 0.0 to 0.6	Kentucky River	RIVER	5100201	BREATHITT	2-FS	3	3	3	3	3/15/2005	WAH, FC, PCR, SCR
Shop Fork 0.0 to 1.4	Kentucky River	RIVER	5100202	LESLIE	2-FS	3	3	3	3	10/6/2004	WAH, FC, PCR, SCR
Silver Creek 0.0 to 11.1	Kentucky River	RIVER	5100205	MADISON	2-FS	5-PS	2-FS	3	3	3/2/2005	WAH, FC, PCR, SCR
Silver Creek 11.2 to 29.8	Kentucky River	RIVER	5100205	MADISON	5-PS	3	3	3	3	3/15/2005	WAH, FC, PCR, SCR
Silver Creek Lake (Lower Lake)	Kentucky River	RESERVOIR	5100205	MADISON	3	3	3	3	2-FS	3/4/2005	WAH, FC, PCR, SCR
Silver Creek Lake (Upper Lake) No. 2	Kentucky River	RESERVOIR	5100205	MADISON	3	3	3	3	2-FS	1/1/2005	WAH, FC, PCR, SCR
Sixmile Creek 0.1 to 12.6	Kentucky River	RIVER	5100205	HENRY	2-FS	2-FS	2-FS	3	3	2/21/2003	WAH, FC, PCR, SCR
Snow Creek 0.0 to 3.9	Kentucky River	RIVER	5100204	POWELL	5-PS	3	3	3	3	10/8/2004	WAH, FC, PCR, SCR
South Benson Creek 0.0 to 5.4	Kentucky River	RIVER	5100205	FRANKLIN	2-FS	3	3	3	3	4/1/1999	WAH, FC, PCR, SCR
South Elkhorn Creek 5.0 to 16.6	Kentucky River	RIVER	5100205	FRANKLIN	5-PS	3	3	3	3	3/16/2005	WAH, FC, PCR, SCR
South Elkhorn Creek 16.6 to 34.5	Kentucky River	RIVER	5100205	WOODFORD	5-PS	5-NS	3	3	3	3/16/2005	WAH, FC, PCR, SCR
South Elkhorn Creek 34.5 to 52.7	Kentucky River	RIVER	5100205	WOODFORD	5-PS	3	3	3	3	3/16/2005	WAH, FC, PCR, SCR
South Fork Kentucky River 11.7 to 18.9	Kentucky River	RIVER	5100203	OWSLEY	2-FS	2-FS	2-FS	3	2-FS	2/23/2005	WAH, FC, PCR, SCR
South Fork Quicksand Creek 0.0 to 16.9	Kentucky River	RIVER	5100201	BREATHITT	5-NS	3	3	3	3	10/11/2004	WAH, FC, PCR, SCR
South Fork Red River 0.0 to 3.9	Kentucky River	RIVER	5100204	POWELL	4A-NS	3	3	3	3	12/22/1999	WAH, FC, PCR, SCR
South Fork Red River 3.9 to 10.1	Kentucky River	RIVER	5100204	POWELL	4A-NS	3	3	3	3	12/22/1999	WAH, FC, PCR, SCR
South Fork Station Camp Creek 0.0 to 9.6	Kentucky River	RIVER	5100204	JACKSON	2-FS	3	3	3	3	12/15/1999	WAH, FC, PCR, SCR
South Fork Station Camp Creek 9.6 to 26.3	Kentucky River	RIVER	5100204	JACKSON	2-FS	3	3	3	3	2/2/2000	CAH, FC, PCR, SCR
Spears Creek 0.1 to 6.3	Kentucky River	RIVER	5100205	BOYLE	5-PS	3	3	3	3	3/16/2005	WAH, FC, PCR, SCR
Spring Fork 3.1 to 6.9	Kentucky River	RIVER	5100201	BREATHITT	5-NS	3	3	3	3	9/10/1999	WAH, FC, PCR, SCR
Spruce Branch 0.0 to 1.8	Kentucky River	RIVER	5100203	CLAY	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Squabble Creek 0.0 to 4.7	Kentucky River	RIVER	5100202	PERRY	5-PS	3	3	3	3	10/11/2004	WAH, FC, PCR, SCR
Stanford City Lake (Rice Lake)	Kentucky River	RESERVOIR	5100205	LINCOLN	2-FS	3	3	3	5-PS	6/3/2003	WAH, FC, PCR, SCR
State Road Fork 0.0 to 4.0	Kentucky River	RIVER	5100204	WOLFE	2-FS	3	3	3	3	3/7/2001	WAH, FC, PCR, SCR
Station Camp Creek 0.0 to 21.3	Kentucky River	RIVER	5100204	JACKSON	5-PS	2-FS	2-FS	3	3	2/22/2005	WAH, FC, PCR, SCR
Steammill Branch 0.6 to 1.6	Kentucky River	RIVER	5100205	GRANT	5B-PS	3	3	3	3	1/26/2000	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Steeles Run 0.0 to 4.2	Kentucky River	RIVER	5100205	FAYETTE	2-FS	3	3	3	3	3/16/2005	WAH, FC, PCR, SCR
Steer Fork 0.0 to 2.7	Kentucky River	RIVER	5100204	JACKSON	2-FS	3	3	3	3	3/16/2005	WAH, FC, PCR, SCR
Stevens Creek 0.0 to 14.4	Kentucky River	RIVER	5100205	GRANT	3	3	3	3	3		WAH, FC, PCR, SCR
Stevens Creek 14.4 to 17.1	Kentucky River	RIVER	5100205	OWEN	5-PS	3	3	3	3	10/13/1999	WAH, FC, PCR, SCR
Stillwater Creek 0.0 to 3.5	Kentucky River	RIVER	5100204	WOLFE	5-PS	3	3	3	3	3/16/2005	WAH, FC, PCR, SCR
Stinnett Creek 1.3 to 4.7	Kentucky River	RIVER	5100202	LESLIE	5-NS	3	3	3	3	10/11/2004	WAH, FC, PCR, SCR
Stump Cave Branch 0.0 to 2.4	Kentucky River	RIVER	5100204	POWELL	4A-NS	3	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Sturgeon Creek 8.0 to 12.2	Kentucky River	RIVER	5100204	LEE	5-PS	3	3	3	3	10/11/2004	WAH, FC, PCR, SCR
Sugar Creek 0.6 to 5.4	Kentucky River	RIVER	5100203	LESLIE	2-FS	3	3	3	3	1/1/2005	WAH, FC, PCR, SCR
Sugar Creek 4.8 to 6.0	Kentucky River	RIVER	5100205	GARRARD	5-PS	3	3	3	3	10/13/2004	WAH, FC, PCR, SCR
Sulphur Creek 0.0 to 1.4	Kentucky River	RIVER	5100205	HENRY	5-NS	3	3	3	3	4/1/1999	WAH, FC, PCR, SCR
Swift Camp Creek 0.0 to 13.8	Kentucky River	RIVER	5100204	WOLFE	5-PS	3	3	3	3	11/1/1998	WAH, FC, PCR, SCR
Tate Creek 0.0 to 6.5	Kentucky River	RIVER	5100205	MADISON	5-NS	3	3	3	3	12/22/1999	WAH, FC, PCR, SCR
Tate Creek 6.5 to 11.5	Kentucky River	RIVER	5100205	MADISON	2-FS	2-FS	3	3	3	12/22/1999	WAH, FC, PCR, SCR
Ten Mile Creek 0.0 to 2.9	Kentucky River	RIVER	5100205	GRANT	5-PS	5-PS	2-FS	3	3	2/18/2005	WAH, FC, PCR, SCR
Three Forks Creek 0.0 to 7.6	Kentucky River	RIVER	5100205	GRANT	5-PS	3	3	3	3	9/15/1999	WAH, FC, PCR, SCR
Town Branch 0.0 to 9.2	Kentucky River	RIVER	5100205	FAYETTE	5-PS	5-NS	3	3	3	1/18/2000	WAH, FC, PCR, SCR
Town Branch 10.6 to 12.1	Kentucky River	RIVER	5100205	FAYETTE	5-PS	3	3	3	3	2/9/2000	WAH, FC, PCR, SCR
Town Branch 9.2 to 10.6	Kentucky River	RIVER	5100205	FAYETTE	5-NS	5-NS	3	3	3	1/18/2000	WAH, FC, PCR, SCR
Town Creek 2.5 to 3.5	Kentucky River	RIVER	5100205	HENRY	5B-NS	3	3	3	3	1/26/2000	WAH, FC, PCR, SCR
Trace Fork 0.15 to 2.4	Kentucky River	RIVER	5100201	KNOTT	2-FS	5-NS	5-NS	3	3	8/19/2005	WAH, FC, PCR, SCR
Troublesome Creek 0.0 to 45.1	Kentucky River	RIVER	5100201	BREATHITT	5-NS	2-FS	2-FS	3	3	2/28/2005	WAH, FC, PCR, SCR
Two Mile Creek 0.0 to 3.1	Kentucky River	RIVER	5100205	OWEN	3	3	3	3	3		WAH, FC, PCR, SCR
Upper Devil Creek 0.0 to 1.0	Kentucky River	RIVER	5100201	WOLFE	5-PS	3	3	3	3	9/15/1999	WAH, FC, PCR, SCR
Upper Hood Branch 0.0 to 1.6	Kentucky River	RIVER	5100204	POWELL	2-FS	3	3	3	3	1/18/2000	WAH, FC, PCR, SCR
Upper Howard Creek 0.0 to 3.2	Kentucky River	RIVER	5100205	CLARK	5-PS	3	3	3	3	12/22/1999	WAH, FC, PCR, SCR
Upper Twin Creek 0.0 to 3.6	Kentucky River	RIVER	5100202	BREATHITT	5-PS	3	3	3	3	12/22/1999	WAH, FC, PCR, SCR
UT to Baughman Fork 0.0 to 1.1	Kentucky River	RIVER	5100205	FAYETTE	4A-NS	3	3	3	3	7/5/2003	WAH, FC, PCR, SCR
UT to Cane Run 0.0 to 3.5	Kentucky River	RIVER	5100205	SCOTT	3	5-NS	3	3	3	1/21/2000	WAH, FC, PCR, SCR
UT to Cawood Branch 0.0 to 2.1	Kentucky River	RIVER	5100202	LESLIE	2-FS	3	3	3	3	1/1/2005	WAH, FC, PCR, SCR
UT to Cedar Creek 0.0 to 1.4	Kentucky River	RIVER	5100205	OWEN	2-FS	3	3	3	3	3/4/2005	WAH, FC, PCR, SCR
UT to Clear Creek 0.0 to 4.3	Kentucky River	RIVER	5100205	WOODFORD	2-FS	3	3	3	3	1/18/2000	WAH, FC, PCR, SCR
UT to Engle Fork 0.0 to 0.5	Kentucky River	RIVER	5100201	PERRY	5-NS	3	3	3	3	10/13/2004	WAH, FC, PCR, SCR
UT to Flat Creek 0.0 to 1.5	Kentucky River	RIVER	5100205	FRANKLIN	2-FS	3	3	3	3	3/7/2005	WAH, FC, PCR, SCR
UT to Glenns Creek 0.0 to 1.9	Kentucky River	RIVER	5100205	WOODFORD	2-FS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
UT to Hanging Fork 0.0 to 1.3	Kentucky River	RIVER	5100205	CASEY	2-FS	3	3	3	3	10/13/2004	WAH, FC, PCR, SCR
UT to Jacks Creek 0.0 to 1.15	Kentucky River	RIVER	5100205	MADISON	2-FS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR, DWS
UT to Kentucky River 0.1 to 1.4	Kentucky River	RIVER	5100205	FRANKLIN	2-FS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
UT to Line Fork 0.0 to 0.6	Kentucky River	RIVER	5100201	LETCHER	2-FS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
UT to N. Elkhorn Creek 0.0 to 5.6	Kentucky River	RIVER	5100205	FAYETTE	5-PS	3	3	3	3	10/14/2004	WAH, FC, PCR, SCR, DWS
UT to North Branch Lulbegrud Creek 0.0 to 2.2	Kentucky River	RIVER	5100204	MONTGOMERY	5-NS	3	3	3	3	2/7/2006	WAH, FC, PCR, SCR, DWS
UT to Smith Fork 0.0 to 0.55	Kentucky River	RIVER	5100205	MADISON	5-PS	3	3	3	3	3/16/2005	WAH, FC, PCR, SCR, DWS
UT to Swift Camp Creek 0.0 to 1.5	Kentucky River	RIVER	5100204	WOLFE	5-NS	3	3	3	3	10/14/1999	WAH, FC, PCR, SCR, DWS
UT to Tanyard Branch 1.0 to 1.6	Kentucky River	RIVER	5100203	CLAY	2-FS	3	3	3	3	10/13/2004	WAH, FC, PCR, SCR
UT to Upper Howards Creek 2.1 to 2.7	Kentucky River	RIVER	5100205	CLARK	2-FS	3	3	3	3	1/14/2005	WAH, FC, PCR, SCR, DWS
Walker Creek 0.0 to 5.4	Kentucky River	RIVER	5100201	LEE	2-FS	3	3	3	3	10/14/1999	WAH, FC, PCR, SCR
Walnut Meadows Branch 0.0 to 3.9	Kentucky River	RIVER	5100205	MADISON	3	3	3	3	3		WAH, FC, PCR, SCR
War Creek 0.0 to 3.1	Kentucky River	RIVER	5100201	BREATHITT	2-FS	3	3	3	3	9/15/1999	WAH, FC, PCR, SCR
War Fork 0.0 to 13.8	Kentucky River	RIVER	5100204	JACKSON	2-FS	3	3	3	3	12/15/1999	WAH, FC, PCR, SCR
West Fork Mill Creek 0.0 to 1.0	Kentucky River	RIVER	5100205	CARROLL	5-PS	3	3	3	3	7/23/1999	WAH, FC, PCR, SCR
West Fork Otter Creek 0.0 to 2.8	Kentucky River	RIVER	5100205	MADISON	2-FS	3	3	3	3	12/17/1999	WAH, FC, PCR, SCR
West Fork Sugar Creek 0.0 to 2.6	Kentucky River	RIVER	5100205	GARRARD	2-FS	3	3	3	3	3/3/2005	WAH, FC, PCR, SCR
West Hickman Creek 0.0 to 3.0	Kentucky River	RIVER	5100205	JESSAMINE	5-PS	5-PS	3	3	3	1/24/2000	WAH, FC, PCR, SCR
West Hickman Creek 3.0 to 8.6	Kentucky River	RIVER	5100205	JESSAMINE	5-PS	3	3	3	3	1/18/2000	WAH, FC, PCR, SCR
White Lick Creek 0.0 to 2.8	Kentucky River	RIVER	5100205	GARRARD	5-PS	3	3	3	3	9/16/1999	WAH, FC, PCR, SCR
White Oak Creek 0.0 to 2.7	Kentucky River	RIVER	5100204	ESTILL	3	3	3	3	3		WAH, FC, PCR, SCR
White Oak Creek 0.0 to 2.8	Kentucky River	RIVER	5100205	GARRARD	5-NS	5-NS	3	3	3	10/14/2004 - 1/31/2008	WAH, FC, PCR, SCR
White Oak Creek 0.0 to 3.4	Kentucky River	RIVER	5100205	LINCOLN	3	5-NS	3	3	3	2/1/2008	WAH, FC, PCR, SCR
Wilgreen Lake	Kentucky River	RESERVOIR	5100205	MADISON	5-NS	3	3	3	3	6/3/2004	WAH, FC, PCR, SCR
Winchester Reservoir (Lower Howards Creek)	Kentucky River	RESERVOIR	5100205	CLARK	3	3	3	3	2-FS	3/22/2005	WAH, FC, PCR, SCR
Wolf Run 0.0 to 4.1	Kentucky River	RIVER	5100205	FAYETTE	5-PS	5-NS	3	3	3	1/13/2000	WAH, FC, PCR, SCR, DWS

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Wolfpen Creek 0.0 to 3.3	Kentucky River	RIVER	5100204	MENIFEE	2-FS	3	3	3	3	3/26/1998	WAH, FC, PCR, SCR, DWS
Wooten Creek 0.0 to 3.0	Kentucky River	RIVER	5100202	LESLIE	5-PS	3	3	3	3	12/22/1999	WAH, FC, PCR, SCR
A.J.Jolly Lake (Campbell County Lake)	Licking River	RESERVOIR	5100101	CAMPBELL	2-FS	3	3	3	3	8/26/2005	WAH, FC, PCR, SCR
Allison Creek 0.0 to 4.9	Licking River	RIVER	5100101	FLEMING	5-NS	4A-NS	3	3	3	2/5/2001	WAH, FC, PCR, SCR, DWS
Banklick Creek 0.0 to 3.5	Licking River	RIVER	5100101	KENTON	5-PS	5-NS	3	3	3	2/23/2001	WAH, FC, PCR, SCR, DWS
Banklick Creek 3.5 to 8.2	Licking River	RIVER	5100101	KENTON	5-NS	5-NS	3	3	3	4/13/2001	WAH, FC, PCR, SCR
Banklick Creek 8.2 to 19.2	Licking River	RIVER	5100101	KENTON	5-PS	5-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR, DWS
Beaver Creek 10.0 to 14.4	Licking River	RIVER	5100101	MENIFEE	5-PS	3	3	3	3	3/12/2001	WAH, FC, PCR, SCR, DWS
Beaver Creek 7.6 to 15.4	Licking River	RIVER	5100101	HARRISON	2-FS	3	3	3	3	10/19/2005	WAH, FC, PCR, SCR, DWS
Blacks Creek 0.0 to 3.4	Licking River	RIVER	5100102	BOURBON	5-PS	3	3	3	3	8/1/2000	WAH, FC, PCR, SCR, DWS
Blackwater Creek 3.8 to 11.7	Licking River	RIVER	5100101	MORGAN	2-FS	5-NS	2-FS	3	3	9/20/2005	WAH, FC, PCR, SCR, DWS
Blanket Creek 0.0 to 1.9	Licking River	RIVER	5100101	PENDLETON	2-FS	3	3	3	3	3/4/2005	WAH, FC, PCR, SCR
Boone Creek 0.0 to 5.0	Licking River	RIVER	5100102	BOURBON	5-PS	3	3	3	3	8/1/2000	WAH, FC, PCR, SCR, DWS
Botts Fork 0.0 to 2.1	Licking River	RIVER	5100101	MENIFEE	2-FS	3	3	3	3	10/24/2005	WAH, FC, PCR, SCR
Bowman Creek 0.0 to 6.0	Licking River	RIVER	5100101	KENTON	2-FS	3	3	3	3	10/24/2005	WAH, FC, PCR, SCR
Broke Leg Creek 0.0 to 1.0	Licking River	RIVER	5100101	MORGAN	5-PS	3	3	3	3	10/25/2005	WAH, FC, PCR, SCR
Broke Leg Creek 1.0 to 4.4	Licking River	RIVER	5100101	MORGAN	5-PS	3	3	3	3	6/24/2005	WAH, FC, PCR, SCR
Brushy Fork 0.0 to 2.2	Licking River	RIVER	5100101	FLEMING	2-FS	3	3	3	3	8/1/2000	WAH, FC, PCR, SCR
Brushy Fork 0.7 to 5.6	Licking River	RIVER	5100101	MENIFEE	2-FS	3	3	3	3	10/25/2005	WAH, FC, PCR, SCR
Brushy Fork 0.0 to 5.8	Licking River	RIVER	5100101	PENDLETON	5-PS	3	3	3	3	7/13/2005	CAH, FC, PCR, SCR
Bucket Branch 0.0 to 1.9	Licking River	RIVER	5100101	MORGAN	2-FS	3	3	3	3	9/20/2005	CAH, FC, PCR, SCR
Bull Fork 2.4 to 4.4	Licking River	RIVER	5100101	ROWAN	2-FS	3	3	3	3	10/25/2005	WAH, FC, PCR, SCR
Burning Fork 0.0 to 3.25	Licking River	RIVER	5100101	MAGOFFIN	5-NS	5-NS	3	3	3	10/25/2003	CAH, FC, PCR, SCR
Caney Creek 0.0 to 4.2	Licking River	RIVER	5100101	MORGAN	5-PS	3	3	3	3	2/9/1999	CAH, FC, PCR, SCR
Carlisle Water Supply Lake	Licking River	RESERVOIR	5100102	NICHOLAS	3	3	3	3	2-FS	11/15/2005	WAH, CAH, FC, PCR, SCR, DWS
Caskey Fork 0.0 to 2.3	Licking River	RIVER	5100101	MORGAN	5-NS	3	3	3	3	10/27/2005	WAH, FC, PCR, SCR
Cassidy Creek 0.0 to 3.9	Licking River	RIVER	5100101	FLEMING	3	4A-NS	3	3	3	1/1/2001	WAH, FC, PCR, SCR
Cassidy Creek 0.5 to 5.0	Licking River	RIVER	5100101	NICHOLAS	3	3	3	3	3		WAH, FC, PCR, SCR
Cave Run Lake	Licking River	RESERVOIR	5100101	ROWAN	2-FS	3	5-PS	5-PS	3	1/3/2006	CAH, FC, PCR, SCR
Cedar Creek 0.0 to 1.7	Licking River	RIVER	5100101	ROBERTSON	2-FS	3	3	3	3	10/27/2005	WAH, FC, PCR, SCR
Christy Creek 0.0 to 4.3	Licking River	RIVER	5100101	ROWAN	5-PS	3	3	3	3	5/12/2001	WAH, FC, PCR, SCR
Clarks Run 0.0 to 2.1	Licking River	RIVER	5100101	MASON	5-PS	3	3	3	3	10/27/2005	WAH, FC, PCR, SCR
Coffee Creek 0.0 to 4.1	Licking River	RIVER	5100101	MORGAN	5-NS	3	3	3	3	9/20/2005	WAH, FC, PCR, SCR
Cooks Branch 0.0 to 2.9	Licking River	RIVER	5100101	MONTGOMERY	2-FS	3	3	3	3	4/26/2004	WAH, FC, PCR, SCR
Cooper Run 0.0 to 10.1	Licking River	RIVER	5100102	BOURBON	5-NS	3	3	3	3	8/2/2000	WAH, FC, PCR, SCR
Coopertown Creek 0.0 to 4.8	Licking River	RIVER	5100102	GRANT	2-FS	3	3	3	3	10/27/2005	CAH, FC, PCR, SCR
Craintown Branch 0.0 to 3.6	Licking River	RIVER	5100101	FLEMING	5-PS	4A-PS	3	3	3	4/20/2001	WAH, FC, PCR, SCR
Crane Creek 0.0 to 2.9	Licking River	RIVER	5100101	FLEMING	5-PS	3	3	3	3	6/30/2004	WAH, FC, PCR, SCR
Craney Creek 0.0 to 5.9	Licking River	RIVER	5100101	ROWAN	2-FS	3	3	3	3	9/20/2005	WAH, FC, PCR, SCR, DWS
Craney Creek 5.9 to 10.0	Licking River	RIVER	5100101	ROWAN	2-FS	3	3	3	3	4/9/2001	WAH, FC, PCR, SCR
Crooked Creek 0.0 to 9.1	Licking River	RIVER	5100101	NICHOLAS	3	5-NS	3	3	3	8/14/2000	WAH, FC, PCR, SCR
Crooked Creek 0.5 to 6.8	Licking River	RIVER	5100102	HARRISON	2-FS	3	3	3	3	10/27/2005	WAH, FC, PCR, SCR
Cruises Creek 0.0 to 8.6	Licking River	RIVER	5100101	KENTON	2-FS	2-FS	3	3	3	3/6/2001	WAH, FC, PCR, SCR
Devils Fork 0.0 to 8.5	Licking River	RIVER	5100101	MORGAN	2-FS	3	3	3	3	9/20/2005	WAH, FC, PCR, SCR
Doe Run Lake	Licking River	RESERVOIR	5100101	KENTON	5-PS	3	2-FS	3	3	8/26/2004	WAH, FC, PCR, SCR
Doty Branch 0.0 to 2.3	Licking River	RIVER	5100101	FLEMING	5-NS	4A-NS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Dry Creek 0.0 to 2.5	Licking River	RIVER	5100101	ROWAN	5-PS	3	3	3	3	10/27/2005	WAH, FC, PCR, SCR
Elk Fork 0.0 to 4.9	Licking River	RIVER	5100101	MORGAN	5-PS	3	3	3	3	4/9/2001	WAH, FC, PCR, SCR
Elk Fork 12.6 to 14.7	Licking River	RIVER	5100101	MORGAN	5-PS	3	3	3	3	8/3/2000	WAH, FC, PCR, SCR
Elk Fork 4.9 to 10.5	Licking River	RIVER	5100101	MORGAN	5-NS	3	3	3	3	8/3/2000	WAH, FC, PCR, SCR
Evans Branch Impoundment	Licking River	RESERVOIR	5100101	ROWAN	3	3	3	3	2-FS	11/15/2005	WAH, FC, PCR, SCR
Fannins Branch 1.5 to 3.4	Licking River	RIVER	5100101	MORGAN	5-PS	3	3	3	3	11/1/2005	WAH, FC, PCR, SCR
Flat Creek 0.0 to 0.9	Licking River	RIVER	5100101	BATH	2-FS	5-NS	3	3	3	1/5/2001	WAH, FC, PCR, SCR
Flat Run 0.0 to 2.2	Licking River	RIVER	5100102	BOURBON	5-NS	3	3	3	3	8/3/2000	WAH, FC, PCR, SCR
Fleming Creek 12.8 to 16.0	Licking River	RIVER	5100101	FLEMING	5-PS	4A-NS	3	3	3	1/9/2001	WAH, FC, PCR, SCR
Fleming Creek 20.8 to 39.4	Licking River	RIVER	5100101	FLEMING	5-NS	4A-NS	3	3	3	1/8/2001	WAH, FC, PCR, SCR
Fleming Creek 0.0 to 12.8	Licking River	RIVER	5100101	FLEMING	5-PS	4A-NS	3	3	3	1/8/2001	WAH, FC, PCR, SCR
Fleming Creek 16.0 to 20.8	Licking River	RIVER	5100101	FLEMING	2-FS	4A-NS	3	3	3	7/8/2004	WAH, FC, PCR, SCR
Flemingsburg Lake	Licking River	RESERVOIR	5100101	FLEMING	3	3	3	3	2-FS	11/15/2005	WAH, FC, PCR, SCR
Flour Creek 0.0 to 2.2	Licking River	RIVER	5100101	PENDLETON	2-FS	3	3	3	3	11/1/2005	WAH, FC, PCR, SCR
Fox Creek 0.0 to 10.1	Licking River	RIVER	5100101	FLEMING	5-PS	5-PS	5-PS	2-FS	3	12/8/2005	CAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Fox Creek 20.1 to 22.7	Licking River	RIVER	5100101	FLEMING	5-NS	3	3	3	3	8/3/2000	WAH, FC, PCR, SCR
Grassy Creek 0.0 to 1.3	Licking River	RIVER	5100101	PENDLETON	3	2-FS	3	3	3	8/14/2000	WAH, FC, PCR, SCR
Grassy Creek 4.6 to 10.0	Licking River	RIVER	5100101	MORGAN	5-PS	3	3	3	3	11/1/2005	WAH, FC, PCR, SCR
Grassy Lick Creek 0.0 to 4.6	Licking River	RIVER	5100102	MONTGOMERY	2-FS	3	3	3	3	7/21/2004	WAH, FC, PCR, SCR, DWS
Greenbriar Lake	Licking River	RESERVOIR	5100101	MONTGOMERY	2-FS	3	2-FS	3	3	8/26/2005	WAH, FC, PCR, SCR
Grovers Creek 0.5 to 3.4	Licking River	RIVER	5100101	PENDLETON	2-FS	3	3	3	3	11/2/2005	WAH, FC, PCR, SCR
Hillsboro Branch 0.0 to 2.7	Licking River	RIVER	5100101	FLEMING	2-FS	3	3	3	3	3/8/2005	WAH, FC, PCR, SCR
Hinkston Creek 0.0 to 12.6	Licking River	RIVER	5100102	BOURBON	2-FS	5-NS	2-FS	2-FS	3	9/20/2005	WAH, FC, PCR, SCR, DWS
Hinkston Creek 20.8 to 31.0	Licking River	RIVER	5100102	BOURBON	2-FS	5-PS	3	3	3	8/4/2000	WAH, FC, PCR, SCR
Hinkston Creek 31.0 to 33.3	Licking River	RIVER	5100102	NICHOLAS	2-FS	3	3	3	3	8/4/2000	WAH, FC, PCR, SCR
Hinkston Creek 41.8 to 49.1	Licking River	RIVER	5100102	BOURBON	5-PS	5-NS	3	3	3	8/4/2000	WAH, FC, PCR, SCR
Hinkston Creek 51.5 to 65.9	Licking River	RIVER	5100102	MONTGOMERY	5-NS	3	3	3	3	10/1/1999	WAH, FC, PCR, SCR, DWS
Hinkston Creek 68.0 to 71.5	Licking River	RIVER	5100102	MONTGOMERY	2-FS	3	3	3	3	1/10/2001	WAH, FC, PCR, SCR, DWS
Hinkston Creek 13.3 to 14.3	Licking River	RIVER	5100102	BOURBON	3	3	3	3	2-FS	11/3/2005	WAH, FC, PCR, SCR
Houston Creek 0.0 to 9.0	Licking River	RIVER	5100102	BOURBON	3	5-NS	3	3	3	8/14/2000	WAH, FC, PCR, SCR
Houston Creek 9.0 to 12.7	Licking River	RIVER	5100102	BOURBON	5-PS	3	3	3	3	8/7/2000	WAH, FC, PCR, SCR
Hutchison Creek 0.0 to 5.4	Licking River	RIVER	5100102	BOURBON	3	3	3	3	3		WAH, FC, PCR, SCR
Indian Creek 0.0 to 0.7	Licking River	RIVER	5100102	BOURBON	3	5B-NS	5B-NS	3	3	9/29/2005	WAH, FC, PCR, SCR
Johnson Creek 0.0 to 3.1	Licking River	RIVER	5100101	MAGOFFIN	3	5-NS	3	3	3	1/9/2001	WAH, FC, PCR, SCR
Johnson Creek 0.0 to 3.5	Licking River	RIVER	5100101	ROBERTSON	2-FS	5-NS	2-FS	3	3	12/8/2005	WAH, FC, PCR, SCR
Johnson Creek 14.6 to 21.8	Licking River	RIVER	5100101	FLEMING	2-FS	3	3	3	3	9/20/2005	WAH, FC, PCR, SCR
Kincaid Lake	Licking River	RESERVOIR	5100101	PENDLETON	5-PS	3	2-FS	3	3	8/26/2005	WAH, FC, PCR, SCR
Knox Hill Branch 0.0 to 2.8	Licking River	RIVER	5100101	BATH	2-FS	3	3	3	3	11/21/2005	CAH, FC, PCR, SCR
Lake Carnico	Licking River	RESERVOIR	5100102	NICHOLAS	2-FS	3	2-FS	3	3	8/26/2004	WAH, FC, PCR, SCR
Lees Creek 0.0 to 4.3	Licking River	RIVER	5100101	MASON	5-PS	3	3	3	3	11/3/2005	WAH, FC, PCR, SCR
Left Fork White Oak Creek 0.0 to 1.8	Licking River	RIVER	5100101	MORGAN	5-PS	3	3	3	3	8/7/2000	WAH, FC, PCR, SCR
Lick Creek 0.0 to 2.1	Licking River	RIVER	5100101	MAGOFFIN	5-PS	3	3	3	3	11/3/2005	WAH, FC, PCR, SCR, DWS
Licking River 0.0 to 4.8	Licking River	RIVER	5100101	CAMPBELL	2-FS	5-PS	3	3	3	12/8/2005	WAH, FC, PCR, SCR, DWS
Licking River 102.5 to 103.5	Licking River	RIVER	5100101	NICHOLAS	3	3	3	3	2-FS	11/3/2005	WAH, FC, PCR, SCR
Licking River 110.2 to 130.1	Licking River	RIVER	5100101	NICHOLAS	3	2-FS	2-FS	3	2-FS	10/1/2005	WAH, FC, PCR, SCR
Licking River 14.9 to 21.5	Licking River	RIVER	5100101	CAMPBELL	3	2-FS	3	3	3	2/8/2001	WAH, FC, PCR, SCR, DWS
Licking River 145.2 to 148.6	Licking River	RIVER	5100101	FLEMING	3	2-FS	2-FS	3	3	3/6/2001	WAH, FC, PCR, SCR
Licking River 224.3 to 241.3	Licking River	RIVER	5100101	MORGAN	2-FS	5-NS	5-PS	3	3	12/7/2005	WAH, FC, PCR, SCR
Licking River 265.0 to 271.6	Licking River	RIVER	5100101	MAGOFFIN	5-PS	3	3	3	3	11/3/2005	WAH, FC, PCR, SCR
Licking River 271.6 to 294.1	Licking River	RIVER	5100101	MAGOFFIN	5	3	3	3	3	8/8/2000	WAH, FC, PCR, SCR, DWS
Licking River 31.0 to 37.6	Licking River	RIVER	5100101	KENTON	2-FS	5-PS	2-FS	3	3	12/8/2005	WAH, FC, PCR, SCR, DWS
Licking River 4.8 to 14.9	Licking River	RIVER	5100101	CAMPBELL	3	5-PS	3	3	3	2/8/2001	CAH, FC, PCR, SCR, DWS
Licking River 52.8 to 53.8	Licking River	RIVER	5100101	PENDLETON	3	3	3	3	2-FS	11/3/2005	WAH, FC, PCR, SCR
Licking River 174.4 to 180.8	Licking River	RIVER	5100101	ROWAN	2-FS	2-FS	5-PS	3	2-FS	11/3/2005	WAH, FC, PCR, SCR
Licking River 294.1 to 302.4	Licking River	RIVER	5100101	MAGOFFIN	5-NS	3	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Licking River 76.8 to 88.9	Licking River	RIVER	5100101	HARRISON	2-FS	2-FS	2-FS	3	3	12/8/2005	WAH, FC, PCR, SCR
Little Beaver Creek 0.0 to 3.3	Licking River	RIVER	5100101	HARRISON	5-PS	3	3	3	3	11/3/2005	WAH, FC, PCR, SCR
Little Flat Creek 0.0 to 2.3	Licking River	RIVER	5100101	BATH	2-FS	3	3	3	3	8/8/2000	WAH, FC, PCR, SCR
Little Stoner Creek 0.0 to 5.0	Licking River	RIVER	5100102	CLARK	3	5-NS	3	3	3	8/14/2000	WAH, FC, PCR, SCR
Lockegee Branch 0.0 to 1.5	Licking River	RIVER	5100101	ROWAN	2-FS	3	3	3	3	9/20/2005	WAH, FC, PCR, SCR
Locust Creek 0.0 to 11.8	Licking River	RIVER	5100101	FLEMING	5-PS	3	3	3	3	11/4/2005	WAH, FC, PCR, SCR
Logan Run 0.0 to 2.3	Licking River	RIVER	5100101	FLEMING	5-NS	4A-NS	3	3	3	3/23/2001	WAH, FC, PCR, SCR
Mash Fork 0.0 to 3.0	Licking River	RIVER	5100101	MAGOFFIN	5-PS	3	3	3	3	11/4/2005	WAH, FC, PCR, SCR
Middle Fork Licking River 0 to 2.5	Licking River	RIVER	5100101	MAGOFFIN	2-FS	5-NS	3	2-FS	3	4/9/2001	WAH, FC, PCR, SCR
Mill Creek 0.0 to 2.6	Licking River	RIVER	5100101	BATH	2-FS	3	3	3	3	8/8/2000	WAH, FC, PCR, SCR
Mill Creek 0.0 to 21.6	Licking River	RIVER	5100102	HARRISON	5-PS	3	3	3	3	11/4/2005	WAH, FC, PCR, SCR
Mill Creek 0.0 to 6.4	Licking River	RIVER	5100101	MASON	2-FS	3	3	3	3	11/4/2005	WAH, FC, PCR, SCR
Minor Creek 0.0 to 2.8	Licking River	RIVER	5100101	MORGAN	2-FS	3	3	3	3	9/20/2005	WAH, FC, PCR, SCR
Minor Creek 2.8 to 7.0	Licking River	RIVER	5100101	MORGAN	2-FS	3	3	3	3	11/4/2005	WAH, FC, PCR, SCR
North Fork Licking River 18.5 to 52.5	Licking River	RIVER	5100101	BRACKEN	5-NS	5-NS	3	3	3	3/6/2001	WAH, FC, PCR, SCR
North Fork Licking River 2.3 to 18.5	Licking River	RIVER	5100101	BRACKEN	2-FS	2-FS	2-FS	3	3	11/7/2005	WAH, FC, PCR, SCR
North Fork Licking River 12.0 to 13.1	Licking River	RIVER	5100101	MORGAN	5-PS	3	3	3	3	6/22/2004	WAH, FC, PCR, SCR
North Fork Licking River 8.4 to 12.0	Licking River	RIVER	5100101	MORGAN	2-FS	5-NS	2-FS	3	3	9/20/2005	WAH, FC, PCR, SCR
North Fork Triplett Creek 1.2 to 14.9	Licking River	RIVER	5100101	ROWAN	3	3	3	3	3		WAH, FC, PCR, SCR
North Fork Triplett Creek 14.9 to 15.9	Licking River	RIVER	5100101	ROWAN	2-FS	3	3	3	3	12/31/2000	WAH, FC, PCR, SCR
Oakley Creek 0.0 to 0.9	Licking River	RIVER	5100101	MAGOFFIN	3	3	3	3	3		WAH, FC, PCR, SCR

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Oldfield Fork 0.0 to 3.6	Licking River	RIVER	5100101	MORGAN	5-NS	3	3	3	3	11/4/2005	WAH, FC, PCR, SCR
Passenger Branch 0.0 to 1.8	Licking River	RIVER	5100101	ROWAN	2-FS	3	3	3	3	1/18/2001	WAH, FC, PCR, SCR
Phillips Creek 0.0 to 5.3	Licking River	RIVER	5100101	CAMPBELL	3	5-NS	3	3	3	3/6/2001	WAH, FC, PCR, SCR
Poplar Creek 0.0 to 2.9	Licking River	RIVER	5100101	FLEMING	3	4A-NS	3	3	3	1/1/2001	WAH, FC, PCR, SCR
Powder Lick Branch 0.0 to 3.5	Licking River	RIVER	5100101	LEWIS	2-FS	3	3	3	3	11/8/2005	WAH, FC, PCR, SCR
Prickly Ash Creek 0.0 to 3.1	Licking River	RIVER	5100101	BATH	5-NS	3	3	3	3	8/9/2000	WAH, FC, PCR, SCR
Puncheon Camp Creek 0.0 to 1.1	Licking River	RIVER	5100101	MAGOFFIN	3	5-NS	3	3	3	8/14/2000	WAH, FC, PCR, SCR
Raven Creek 0.0 to 5.5	Licking River	RIVER	5100102	HARRISON	2-FS	3	3	3	3	11/8/2005	WAH, FC, PCR, SCR
Rock Fork 0.0 to 4.0	Licking River	RIVER	5100101	ROWAN	5-PS	3	3	3	3	11/8/2005	WAH, FC, PCR, SCR
Rock Lick 0.0 to 0.8	Licking River	RIVER	5100101	FLEMING	3	3	3	3	3		WAH, FC, PCR, SCR
Rockhouse Creek 0.0 to 4.6	Licking River	RIVER	5100101	MORGAN	3	3	3	3	3		WAH, FC, PCR, SCR
Salt Lick Creek 3.0 to 8.0	Licking River	RIVER	5100101	BATH	5-PS	3	3	3	3	6/1/1999	WAH, FC, PCR, SCR
Salt Lick Creek 8.8 to 14.9	Licking River	RIVER	5100101	BATH	2-FS	3	3	3	3	6/30/2004	WAH, FC, PCR, SCR
Salt Spring Branch 0.7 to 2.0	Licking River	RIVER	5100101	MENIFEE	2-FS	3	3	3	3	11/8/2005	WAH, FC, PCR, SCR
Sand Lick Creek 6.0 to 8.1	Licking River	RIVER	5100101	FLEMING	2-FS	3	3	3	3	6/23/2005	WAH, FC, PCR, SCR
Sand Lick Creek 0.0 to 5.8	Licking River	RIVER	5100101	FLEMING	2-FS	3	3	3	3	8/1/1999	WAH, FC, PCR, SCR
Sandlick Creek Lake	Licking River	RESERVOIR	5100101	FLEMING	2-FS	3	4C-PS	3	3	8/26/2005	WAH, FC, PCR, SCR
Sawyers Fork 0.0 to 3.3	Licking River	RIVER	5100101	KENTON	2-FS	3	3	3	3	11/8/2005	WAH, FC, PCR, SCR
Scrubgrass Creek 0.0 to 1.6	Licking River	RIVER	5100101	NICHOLAS	5-NS	3	3	3	3	8/9/2000	WAH, FC, PCR, SCR
Shannon Creek 0.0 to 8.7	Licking River	RIVER	5100101	MASON	2-FS	3	3	3	3	11/8/2005	WAH, FC, PCR, SCR
Short Creek 0.0 to 7.9	Licking River	RIVER	5100102	PENDLETON	2-FS	3	3	3	3	11/8/2005	WAH, FC, PCR, SCR
Slabcamp Creek 0.0 to 3.7	Licking River	RIVER	5100101	ROWAN	2-FS	3	3	3	3	9/20/2005	WAH, FC, PCR, SCR
Slate Creek 0.0 to 13.6	Licking River	RIVER	5100101	BATH	2-FS	5-PS	2-FS	2-FS	3	11/9/2005	WAH, FC, PCR, SCR
Slate Creek 17.2 to 18.2	Licking River	RIVER	5100101	BATH	3	3	3	3	2-FS	11/9/2005	WAH, FC, PCR, SCR
Slate Creek 36.1 to 37.1	Licking River	RIVER	5100101	MONTGOMERY	3	3	3	3	2-FS	11/15/2005	WAH, FC, PCR, SCR
Slate Creek 42.8 to 52.2	Licking River	RIVER	5100101	MONTGOMERY	3	2-FS	3	3	3	2/15/2001	WAH, FC, PCR, SCR
Slate Creek 52.2 to 56.6	Licking River	RIVER	5100101	MENIFEE	3	3	3	3	3		WAH, FC, PCR, SCR
Sleepy Run 0.0 to 2.8	Licking River	RIVER	5100101	FLEMING	3	4A-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Somerset Creek 0.0 to 4.4	Licking River	RIVER	5100102	NICHOLAS	3	3	3	3	3		WAH, FC, PCR, SCR
South Fork Grassy Creek 10.4 to 15.2	Licking River	RIVER	5100101	PENDLETON	2-FS	2-FS	2-FS	3	3	11/9/2005	WAH, FC, PCR, SCR
South Fork Licking River 11.6 to 16.95	Licking River	RIVER	5100102	PENDLETON	2-FS	2-FS	2-FS	3	3	9/20/2005	WAH, FC, PCR, SCR
South Fork Licking River 16.6 to 27.2	Licking River	RIVER	5100102	HARRISON	2-FS	2-FS	3	3	3	8/11/2000	WAH, FC, PCR, SCR
South Fork Licking River 2.0 to 6.8	Licking River	RIVER	5100102	PENDLETON	2-FS	2-FS	3	3	3	8/11/2000	WAH, FC, PCR, SCR
South Fork Licking River 35.0 to 46.4	Licking River	RIVER	5100102	HARRISON	2-FS	2-FS	3	3	3	8/11/2000	WAH, FC, PCR, SCR
South Fork Licking River 51.1 to 52.1	Licking River	RIVER	5100102	HARRISON	3	3	3	3	2-FS	11/14/2005	WAH, FC, PCR, SCR
South Fork Licking River 6.8 to 11.3	Licking River	RIVER	5100102	PENDLETON	2-FS	3	3	3	3	8/11/2000	WAH, FC, PCR, SCR
Spruce Creek 0.0 to 1.7	Licking River	RIVER	5100101	MONTGOMERY	5-PS	3	3	3	3	11/14/2005	WAH, FC, PCR, SCR
State Road Fork 0.0 to 1.1	Licking River	RIVER	5100101	MAGOFFIN	3	3	3	3	3		WAH, FC, PCR, SCR
Stonecoal Branch 0.0 to 2.5	Licking River	RIVER	5100101	ROWAN	2-FS	3	3	3	3	4/11/2001	WAH, FC, PCR, SCR
Stoner Creek 0.0 to 5.5	Licking River	RIVER	5100102	BOURBON	2-FS	5-PS	2-FS	3	3	9/20/2005	WAH, FC, PCR, SCR, DWS
Stoner Creek 16.7 to 17.3	Licking River	RIVER	5100102	BOURBON	3	3	3	3	2-FS	11/14/2005	WAH, FC, PCR, SCR
Stoner Creek 17.3 to 30.1	Licking River	RIVER	5100102	BOURBON	3	2-FS	3	3	3	8/14/2000	WAH, FC, PCR, SCR, DWS
Stoner Creek 44.8 to 60.5	Licking River	RIVER	5100102	BOURBON	3	2-FS	3	3	3	3/6/2001	WAH, FC, PCR, SCR
Stoner Creek 5.5 to 15.0	Licking River	RIVER	5100102	BOURBON	3	5-NS	3	3	3	8/14/2000	WAH, FC, PCR, SCR
Stoner Creek 60.5 to 72.2	Licking River	RIVER	5100102	CLARK	3	3	3	3	3		WAH, FC, PCR, SCR
Stony Creek 0.0 to 3.0	Licking River	RIVER	5100101	NICHOLAS	5-NS	3	3	3	3	8/10/2000	WAH, FC, PCR, SCR
Straight Creek 0.0 to 1.8	Licking River	RIVER	5100101	MORGAN	5-NS	3	3	3	3	8/10/2000	WAH, FC, PCR, SCR
Strodes Creek 2.7 to 19.3	Licking River	RIVER	5100102	BOURBON	5-PS	5-NS	3	2-FS	3	3/3/2001	WAH, FC, PCR, SCR
Threemile Creek 0.1 to 4.7	Licking River	RIVER	5100101	CAMPBELL	5-NS	5-NS	3	3	3	10/1/1999	WAH, FC, PCR, SCR
Town Branch 0.0 to 4.0	Licking River	RIVER	5100101	FLEMING	3	4A-NS	3	3	3	4/11/2001	WAH, FC, PCR, SCR
Town Branch 0.3 to 2.3	Licking River	RIVER	5100102	BATH	2-FS	3	3	3	3	9/20/2005	WAH, FC, PCR, SCR
Townsend Creek 0.0 to 4.9	Licking River	RIVER	5100102	BOURBON	2-FS	5-NS	3	3	3	11/14/2005	WAH, FC, PCR, SCR
Townsend Creek 4.9 to 15.4	Licking River	RIVER	5100102	BOURBON	2-FS	3	3	3	3	11/14/2005	WAH, FC, PCR, SCR
Trace Fork 0.0 to 3.1	Licking River	RIVER	5100101	MAGOFFIN	5-PS	3	3	3	3	8/10/2000	WAH, FC, PCR, SCR
Triplett Creek 12.3 to 15.7	Licking River	RIVER	5100102	ROWAN	3	3	3	3	2-FS	3/25/2002	WAH, FC, PCR, SCR
Triplett Creek 15.7 to 20.5	Licking River	RIVER	5100101	ROWAN	2-FS	3	3	3	3	3/12/2001	WAH, FC, PCR, SCR
Triplett Creek 5.9 to 12.3	Licking River	RIVER	5100101	ROWAN	5-PS	5-NS	5-PS	3	3	12/7/2005	WAH, FC, PCR, SCR
UT to Flat Creek 0.0 to 2.2	Licking River	RIVER	5100101	BATH	2-FS	3	3	3	3	4/26/2005	WAH, FC, PCR, SCR
UT to Fleming Creek 0.0 to 2.1	Licking River	RIVER	5100101	FLEMING	3	4A-NS	3	3	3	1/1/2001	WAH, FC, PCR, SCR
UT to Mill Creek 0.0 to 4.0	Licking River	RIVER	5100101	FLEMING	5-NS	3	3	3	3	6/29/2004	WAH, FC, PCR, SCR
UT to Shannon Creek 0.0 to 2.2	Licking River	RIVER	5100101	MASON	2-FS	3	3	3	3	4/29/2004	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
UT to UT to Lees Creek 0.0 to 1.6	Licking River	RIVER	5100101	MASON	5-NS	3	3	3	3	11/3/2005	WAH, FC, PCR, SCR
Welch Fork 0.0 to 1.0	Licking River	RIVER	5100101	MENIFEE	2-FS	3	3	3	3	11/14/2005	WAH, FC, PCR, SCR
West Creek 0.0 to 9.8	Licking River	RIVER	5100101	HARRISON	2-FS	3	3	3	3	9/20/2005	WAH, FC, PCR, SCR, DWS
Williams Creek 0.0 to 5.3	Licking River	RIVER	5100101	MORGAN	3	5-NS	3	3	3	8/10/2000	WAH, FC, PCR, SCR
Williamstown Lake	Licking River	RESERVOIR	5100101	GRANT	2-FS	3	2-FS	3	2-FS	8/26/2005	WAH, FC, PCR, SCR
Willow Creek 0.0 to 10.2	Licking River	RIVER	5100101	PENDLETON	2-FS	3	3	3	3	8/10/2000	WAH, FC, PCR, SCR
Wilson Run 0.0 to 5.1	Licking River	RIVER	5100101	FLEMING	3	4A-NS	3	3	3	4/11/2001	WAH, FC, PCR, SCR
Allcorn Creek 1.4 to 3.9	Little Sandy River	RIVER	5090104	GREENUP	5-NS	3	3	3	3	11/7/2003	WAH, FC, PCR, SCR
Arabs Fork 0.0 to 5.1	Little Sandy River	RIVER	5090104	ELLIOTT	2-FS	3	3	3	3	2/9/2004	WAH, FC, PCR, SCR
Barrett Creek 0.0 to 7.2	Little Sandy River	RIVER	5090104	CARTER	5-PS	3	3	3	3	1/21/2004	WAH, FC, PCR, SCR
Big Caney Creek 1.8 to 13.4	Little Sandy River	RIVER	5090104	ELLIOTT	2-FS	2-FS	3	3	3	1/16/2004	WAH, FC, PCR, SCR
Big Sinking Creek 6.1 to 15.2	Little Sandy River	RIVER	5090104	CARTER	2-FS	2-FS	3	3	3	9/22/2003	WAH, FC, PCR, SCR
Cane Creek 0.0 to 4.1	Little Sandy River	RIVER	5090104	GREENUP	5-PS	3	3	3	3	1/21/2004	WAH, FC, PCR, SCR
Caney Fork 0.9 to 3.5	Little Sandy River	RIVER	5070204	LAWRENCE	2-FS	3	3	3	3	11/11/2003	WAH, FC, PCR, SCR
Clay Fork 0.0 to 4.0	Little Sandy River	RIVER	5090104	ELLIOTT	2-FS	3	3	3	3	2/9/2004	WAH, FC, PCR, SCR
Dry Fork 1.2 to 4.5	Little Sandy River	RIVER	5090104	LAWRENCE	5-PS	3	3	3	3	1/22/2004	WAH, FC, PCR, SCR
East Fork Little Sandy River 24.9 to 26.4	Little Sandy River	RIVER	5090104	BOYD	2-FS	5-NS	3	3	3	2/9/2004	WAH, FC, PCR, SCR
East Fork Little Sandy River 27.1 to 30.0	Little Sandy River	RIVER	5090104	BOYD	5-PS	3	3	3	3	11/25/2003	WAH, FC, PCR, SCR
East Fork Little Sandy River 4.7 to 9.0	Little Sandy River	RIVER	5090104	BOYD	2-FS	2-FS	3	3	3	1/15/2004	WAH, FC, PCR, SCR
East Fork Little Sandy River 16.8 to 24.9	Little Sandy River	RIVER	5090104	BOYD	4A-NS	3	3	3	3	2/29/2008	WAH, FC, PCR, SCR
Ellingtons Bear Cr 0.0 to 1.5	Little Sandy River	RIVER	5090104	BOYD	5-PS	3	3	3	3	11/10/2003	WAH, FC, PCR, SCR
Everman Cr 0.0 to 5.7	Little Sandy River	RIVER	5090104	CARTER	5-PS	3	3	3	3	1/21/2004	WAH, FC, PCR, SCR
Garner Cr 0.0 to 1.8	Little Sandy River	RIVER	5090104	BOYD	5-PS	3	3	3	3	1/22/2004	WAH, FC, PCR, SCR
Grayson Lake	Little Sandy River	RESERVOIR	5090104	CARTER	2-FS	3	2-FS	5-PS	3	3/5/2003	WAH, FC, PCR, SCR
Green Br 0.0 to 1.4	Little Sandy River	RIVER	5090104	ELLIOTT	2-FS	3	3	3	3	9/22/2003	WAH, FC, PCR, SCR
Greenbo Lake	Little Sandy River	RESERVOIR	5090104	GREENUP	2-FS	3	3	3	3	1/1/1998	WAH, FC, PCR, SCR
Laurel Branch 1.0 to 2.6	Little Sandy River	RIVER	5090104	ELLIOTT	2-FS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Laurel Creek 0.0 to 7.6	Little Sandy River	RIVER	5090104	ELLIOTT	2-FS	3	3	3	3	9/22/2003	WAH, FC, PCR, SCR
Laurel Creek 7.6 to 11.2	Little Sandy River	RIVER	5090104	ELLIOTT	2-FS	3	3	3	3	9/22/2003	WAH, FC, PCR, SCR
Left Fork Redwine Creek 0.0 to 1.2	Little Sandy River	RIVER	5090104	ELLIOTT	5-PS	3	3	3	3	11/7/2003	WAH, FC, PCR, SCR
Lick Fork 0.0 to 5.2	Little Sandy River	RIVER	5090104	ELLIOTT	5-PS	3	3	3	3	12/10/2003	CAH, FC, PCR, SCR
Little Fork Little Sandy River 12.0 to 23.8	Little Sandy River	RIVER	5090104	CARTER	5-PS	3	3	3	3	11/11/2002	WAH, FC, PCR, SCR
Little Fork Little Sandy River 2.3 to 4.8	Little Sandy River	RIVER	5090104	CARTER	2-FS	2-FS	3	3	3	1/14/2004	WAH, FC, PCR, SCR
Little Fork Little Sandy River 23.8 to 27.7	Little Sandy River	RIVER	5090104	ELLIOTT	5-NS	3	3	3	3	1/22/2004	WAH, FC, PCR, SCR
Little Fork Little Sandy River 27.7 to 30.5	Little Sandy River	RIVER	5090104	ELLIOTT	5-PS	3	3	3	3	11/11/2003	WAH, FC, PCR, SCR
Little Fork Little Sandy River 4.8 to 6.0	Little Sandy River	RIVER	5090104	CARTER	5-PS	3	3	3	3	7/8/2002	WAH, FC, PCR, SCR
Little Fork Little Sandy River 6.0 to 12.0	Little Sandy River	RIVER	5090104	CARTER	2-FS	3	3	3	3	11/25/2003	WAH, FC, PCR, SCR
Little Sandy River 0.0 to 0.2	Little Sandy River	RIVER	5090104	GREENUP	3	5-NS	3	3	3	2/4/2004	WAH, FC, PCR, SCR
Little Sandy River 0.2 to 12.1	Little Sandy River	RIVER	5090104	GREENUP	3	3	3	3	2-FS	2/2/2004	WAH, FC, PCR, SCR
Little Sandy River 12.1 to 20.1	Little Sandy River	RIVER	5090104	GREENUP	2-FS	2-FS	3	2-FS	3	11/25/2003	WAH, FC, PCR, SCR
Little Sandy River 40.1 to 42.5	Little Sandy River	RIVER	5090104	CARTER	3	3	3	3	2-FS	2/2/2004	WAH, FC, PCR, SCR
Little Sandy River 42.5 to 47.1	Little Sandy River	RIVER	5090104	CARTER	2-FS	2-FS	3	3	3	1/14/2004	WAH, FC, PCR, SCR
Little Sandy River 71.8 to 74.7	Little Sandy River	RIVER	5090104	ELLIOTT	5-PS	2-FS	3	3	3	1/14/2004	WAH, FC, PCR, SCR
Little Sandy River 20.1 to 37.7	Little Sandy River	RIVER	5090104	GREENUP	3	3	3	3	3	11/25/2003	WAH, FC, PCR, SCR
Little Sinking Creek 0.0 to 6.2	Little Sandy River	RIVER	5090104	CARTER	2-FS	3	3	3	3	1/22/2004	WAH, FC, PCR, SCR
Lower Stinson Creek 0.0 to 1.1	Little Sandy River	RIVER	5090104	CARTER	5-PS	3	3	3	3	2/11/2004	WAH, FC, PCR, SCR
Meadow Branch 0.0 to 1.4	Little Sandy River	RIVER	5090104	ELLIOTT	2-FS	3	3	3	3	9/22/2003	WAH, FC, PCR, SCR, DWS
Middle Fork Little Sandy River 0.0 to 5.7	Little Sandy River	RIVER	5090104	ELLIOTT	2-FS	3	3	3	3	9/22/2003	WAH, FC, PCR, SCR
Middle Fork Little Sandy River 5.7 to 7.5	Little Sandy River	RIVER	5090104	ELLIOTT	5-PS	3	3	3	3	1/22/2004	WAH, FC, PCR, SCR
Newcombe Creek 0.0 to 11.9	Little Sandy River	RIVER	5090104	ELLIOTT	4A-PS	3	3	3	3	1/22/2004	WAH, FC, PCR, SCR
Nichols Fork 0.0 to 1.6	Little Sandy River	RIVER	5090104	ELLIOTT	2-FS	3	3	3	3	9/22/2003	WAH, FC, PCR, SCR
Oldtown Creek 0.0 to 1.9	Little Sandy River	RIVER	5090104	GREENUP	5-PS	3	3	3	3	11/10/2003	WAH, FC, PCR, SCR
Right Fork Newcombe Creek 0.0 to 4.2	Little Sandy River	RIVER	5090104	ELLIOTT	5-PS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Rocky Branch 0.0 to 3.2	Little Sandy River	RIVER	5090104	ELLIOTT	5-PS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
S. Fork Ruin Creek 0.0 to 0.7	Little Sandy River	RIVER	5090104	ELLIOTT	3	3	3	3	3		WAH, FC, PCR, SCR
Straight Creek 0.0 to 3.8	Little Sandy River	RIVER	5090104	CARTER	5-PS	3	3	3	3	1/22/2004	WAH, FC, PCR, SCR
Tunnel Branch 0.0 to 1.7	Little Sandy River	RIVER	5090104	GREENUP	5-NS	3	3	3	3	11/10/2003	WAH, FC, PCR, SCR
UT to East Fork Little Sandy River 0.0 to 0.3	Little Sandy River	RIVER	5090104	GREENUP	5-NS	3	3	3	3	11/6/2003	WAH, FC, PCR, SCR
UT to Newcombe Creek 0.0 to 0.95	Little Sandy River	RIVER	5090104	ELLIOTT	2-FS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
UT to Newcombe Creek 0.0 to 1.35	Little Sandy River	RIVER	5090104	ELLIOTT	2-FS	3	3	3	3	12/10/2003	WAH, FC, PCR, SCR
Wells Creek 0.0 to 3.5	Little Sandy River	RIVER	5090104	ELLIOTT	5-PS	3	3	3	3	1/22/2004	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Williams Creek 0.0 to 2.9	Little Sandy River	RIVER	5090104	BOYD	5-PS	3	3	3	3	1/21/2004	WAH, FC, PCR, SCR
Casey Creek 0.0 to 3.6	Lower Cumberland	RIVER	5130205	TRIGG	5-PS	2-FS	3	3	3	3/25/2002	WAH, FC, PCR, SCR
Claylick Creek 14.8 to 15.7	Lower Cumberland	RIVER	5130205	CRITTENDEN	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Claylick Creek 4.8 to 10.7	Lower Cumberland	RIVER	5130205	CRITTENDEN	5-NS	5-NS	3	3	3	3/22/2006 - 3/22/2007	WAH, FC, PCR, SCR
Claylick Creek 1.9 to 4.8	Lower Cumberland	RIVER	5130205	CRITTENDEN	2-FS	5-NS	3	3	3	1/10/2002	WAH, FC, PCR, SCR
Claylick Creek 10.7 to 13.9	Lower Cumberland	RIVER	5130205	CRITTENDEN	5-PS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR, DWS
Crab Creek 0.0 to 4.8	Lower Cumberland	RIVER	5130205	LYON	5-PS	3	3	3	3	2/26/2007	WAH, FC, PCR, SCR
Crooked Creek 2.9 to 9.1	Lower Cumberland	RIVER	5130205	TRIGG	2-FS	3	3	3	3	2/27/2007	WAH, FC, PCR, SCR
Cumberland River 0.0 to 30.6	Lower Cumberland	RIVER	5130205	LIVINGSTON	2-FS	3	3	2-FS	2-FS	2/27/2007	WAH, FC, PCR, SCR, DWS
Cypress Creek 0.1 to 6.1	Lower Cumberland	RIVER	5130205	LIVINGSTON	5-NS	3	3	3	3	3/22/2007	WAH, FC, PCR, SCR
Donaldson Creek 4.0 to 7.2	Lower Cumberland	RIVER	5130205	TRIGG	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Donaldson Creek 7.2 to 9.3	Lower Cumberland	RIVER	5130205	TRIGG	5-PS	3	3	3	3	5/2/2002	CAH, FC, PCR, SCR
Dry Creek 0.0 to 3.6	Lower Cumberland	RIVER	5130205	CALDWELL	5-PS	5-NS	3	3	3	4/1/1998 - 3/10/2006	WAH, FC, PCR, SCR, DWS
Dry Fork 0.0 to 7.3	Lower Cumberland	RIVER	5130206	LOGAN	5-PS	3	3	3	3		WAH, FC, PCR, SCR
Dry Fork Creek 5.8 to 6.6	Lower Cumberland	RIVER	5130206	CHRISTIAN	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Dry Fork Creek 0.0 to 8.4	Lower Cumberland	RIVER	5130205	LYON	2-FS	3	3	3	3		WAH, FC, PCR, SCR
Eddy Creek 8.4 to 10.5	Lower Cumberland	RIVER	5130205	LYON	3	5-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Eddy Creek 10.1 to 12.9	Lower Cumberland	RIVER	5130205	CALDWELL	2-FS	3	3	3	3	7/13/2000	WAH, FC, PCR, SCR
Eddy Creek 13.0 to 15.7	Lower Cumberland	RIVER	5130205	CALDWELL	5-NS	5-NS	3	3	3	3/10/2006	WAH, FC, PCR, SCR
Elk Fork 22.3 to 31.1	Lower Cumberland	RIVER	5130206	TODD	5-NS	5-PS	3	3	3	2/28/2007	WAH, FC, PCR, SCR
Elk Fork 7.5 to 22.3	Lower Cumberland	RIVER	5130206	TODD	2-FS	3	3	3	3	7/5/2001	WAH, FC, PCR, SCR
Energy Lake	Lower Cumberland	RESERVOIR	5130205	TRIGG	2-FS	3	2-FS	3	3	3/3/2006	WAH, FC, PCR, SCR
Ferguson Creek 0.0 to 1.2	Lower Cumberland	RIVER	5130205	LIVINGSTON	3	5-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Ferguson Creek 1.2 to 2.3	Lower Cumberland	RIVER	5130205	LIVINGSTON	5-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Franklin Creek 0.0 to 2.4	Lower Cumberland	RIVER	5130206	TRIGG	3	3	3	3	3		WAH, FC, PCR, SCR
Fulton Creek 2.7 to 5.9	Lower Cumberland	RIVER	5130205	LYON	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Hammond Creek 2.0 to 2.2	Lower Cumberland	RIVER	5130205	LYON	5B-PS	5B-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Hematite Lake	Lower Cumberland	RESERVOIR	5130205	TRIGG	5-NS	3	5-PS	3	3	3/3/2006	WAH, FC, PCR, SCR
Hickory Creek 0.0 to 3.9	Lower Cumberland	RIVER	5130205	LIVINGSTON	2-FS	5-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Honker Lake	Lower Cumberland	RESERVOIR	5130205	LYON	2-FS	3	4C-PS	3	3	3/3/2006	WAH, FC, PCR, SCR
Kenady Creek 0.0 to 4.0	Lower Cumberland	RIVER	5130205	TRIGG	5-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Lake Barkley	Lower Cumberland	RESERVOIR	5130205	LYON	2-FS	3	2-FS	2-FS	2-FS	3/9/2006	WAH, FC, PCR, SCR
Lake Blythe	Lower Cumberland	RESERVOIR	5130205	CHRISTIAN	2-FS	3	2-FS	3	3	3/3/2006	WAH, FC, PCR, SCR
Lake Morris	Lower Cumberland	RESERVOIR	5130205	CHRISTIAN	2-FS	3	2-FS	3	3	1/1/2000	WAH, FC, PCR, SCR
Laura Furnace Creek 0.0 to 2.9	Lower Cumberland	RIVER	5130205	TRIGG	3	3	3	3	3		WAH, FC, PCR, SCR
Little River 14.7 to 20.6	Lower Cumberland	RIVER	5130205	TRIGG	5-PS	3	3	3	3	12/4/2006	WAH, FC, PCR, SCR
Little River 20.6 to 30.0	Lower Cumberland	RIVER	5130205	TRIGG	5-PS	2-FS	3	5-PS	3	1/3/2002 - 10/10/2006	WAH, FC, PCR, SCR
Little River 30.0 to 31.4	Lower Cumberland	RIVER	5130205	TRIGG	5-NS	5-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Little River 31.4 to 45.5	Lower Cumberland	RIVER	5130205	TRIGG	5-PS	5-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Little River 45.5 to 57.7	Lower Cumberland	RIVER	5130205	CHRISTIAN	5-NS	5-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Little Whipporwill Creek 0.0 to 4.2	Lower Cumberland	RIVER	5130206	LOGAN	2-FS	3	3	3	3	6/22/2000	WAH, FC, PCR, SCR
Livingston Creek 4.6 to 7.0	Lower Cumberland	RIVER	5130205	LYON	5-PS	5-PS	5-PS	3	3	3/1/2007	WAH, FC, PCR, SCR
Livingston Creek 11.6 to 15.5	Lower Cumberland	RIVER	5130205	LYON	5-NS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR
Long Creek 0.4 to 3.5	Lower Cumberland	RIVER	5130205	TRIGG	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Long Pond Branch 2.7 to 3.2	Lower Cumberland	RIVER	5130205	TRIGG	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Lower Branch 3.4 to 9.3	Lower Cumberland	RIVER	5130205	CHRISTIAN	5-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Middle Branch of North Fork of Little River 1.3 to 3.9	Lower Cumberland	RIVER	5130205	CHRISTIAN	5-PS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR
Muddy Fork 14.5 to 26.6	Lower Cumberland	RIVER	5130205	TRIGG	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Muddy Fork 3.0 to 6.1	Lower Cumberland	RIVER	5130205	TRIGG	2-FS	2-FS	3	3	3	3/12/2007	WAH, FC, PCR, SCR, DWS
North Fork Little River 10.9 to 16.1	Lower Cumberland	RIVER	5130205	CHRISTIAN	5-NS	5-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
North Fork of Little River 0.0 to 0.3	Lower Cumberland	RIVER	5130205	CHRISTIAN	5-NS	5-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
North Fork of Little River 7.0 to 10.9	Lower Cumberland	RIVER	5130205	CHRISTIAN	5-NS	5-NS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
North Fork of Little River 0.3 to 7.0	Lower Cumberland	RIVER	5130205	CHRISTIAN	5-PS	5-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Pleasant Grove Creek 0.0 to 2.2	Lower Cumberland	RIVER	5130206	LOGAN	5-PS	5-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR, DWS
Red River 50.8 to 54.5	Lower Cumberland	RIVER	5130206	LOGAN	2B(5)	5-NS	3	3	3	3/13/2007	WAH, FC, PCR, SCR, DWS
Red River 54.5 to 56.9	Lower Cumberland	RIVER	5130206	LOGAN	5-PS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR, DWS
Red River 57.0 to 65.8	Lower Cumberland	RIVER	5130206	LOGAN	2-FS	5-NS	3	2-FS	3	1/3/2002 - 3/13/2007	WAH, FC, PCR, SCR, DWS
Red River 65.8 to 74.3	Lower Cumberland	RIVER	5130206	LOGAN	3	3	3	3	3		WAH, FC, PCR, SCR
Red River 74.3 to 81.3	Lower Cumberland	RIVER	5130206	SIMPSON	5-PS	3	3	3	3	6/23/2000	WAH, FC, PCR, SCR
Richland Creek 0.7 to 5.4	Lower Cumberland	RIVER	5130205	LIVINGSTON	3	5-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Sandy Creek 0.0 to 2.3	Lower Cumberland	RIVER	5130205	LIVINGSTON	3	5-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Sinkhole Near Muddy Fork	Lower Cumberland	SPRING	5130205	TRIGG	5B-NS	3	3	3	3	3/14/2007	CAH, FC, PCR, SCR
Sinking Fork 2.2 to 5.6	Lower Cumberland	RIVER	5130205	TRIGG	5-PS	2-FS	3	3	3	3/19/2007	WAH, FC, PCR, SCR
Sinking Fork 24.4 to 30.9	Lower Cumberland	RIVER	5130205	TRIGG	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Sinking Fork 13.6 to 16.8	Lower Cumberland	RIVER	5130205	CHRISTIAN	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Sinking Fork 31.0 to 32.7	Lower Cumberland	RIVER	5130205	CHRISTIAN	5-NS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR
Skinframe Creek 0.0 to 4.8	Lower Cumberland	RIVER	5130205	LYON	5-PS	5-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Skinner Creek 0.0 to 5.8	Lower Cumberland	RIVER	5130205	TRIGG	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
South Fork of Little River 0.0 to 10.3	Lower Cumberland	RIVER	5130205	CHRISTIAN	5-NS	5-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
South Fork of Little River 10.3 to 20.3	Lower Cumberland	RIVER	5130205	CHRISTIAN	5-PS	5-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
South Fork of Little River 21.3 to 26.1	Lower Cumberland	RIVER	5130205	CHRISTIAN	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
South Fork of Red River 0.0 to 5.3	Lower Cumberland	RIVER	5130206	LOGAN	2-FS	2-FS	3	3	3	10/10/2006	WAH, FC, PCR, SCR
South Fork Red River 5.3 to 7.9	Lower Cumberland	RIVER	5130206	LOGAN	3	3	3	3	2-FS	5/2/2002	WAH, FC, PCR, SCR
Spring Creek 3.0 to 3.5	Lower Cumberland	RIVER	5130205	LYON	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR, DWS
Spring Creek 14.4 to 16.3	Lower Cumberland	RIVER	5130206	TODD	2-FS	3	3	3	3	3/15/2007	WAH, FC, PCR, SCR
Sugar Creek 1.0 to 1.4	Lower Cumberland	RIVER	5130205	CHRISTIAN	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Sugar Creek 2.2 to 6.9	Lower Cumberland	RIVER	5130205	LIVINGSTON	2-FS	5-PS	3	3	3	5/2/2002 - 10/10/2006	WAH, FC, PCR, SCR
Sulphur Spring Creek 0 to 6.6	Lower Cumberland	RIVER	5130206	SIMPSON	2-FS	3	3	3	3	6/23/2000	WAH, FC, PCR, SCR
Upper Branch 0.0 to 2.8	Lower Cumberland	RIVER	5130205	CHRISTIAN	5-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
UT to Dry Creek 0.0 to 2.1	Lower Cumberland	RIVER	5130205	TRIGG	5-NS	3	3	3	3	10/3/2007	WAH, FC, PCR, SCR
UT to Fulton Creek 0.0 to 0.8	Lower Cumberland	RIVER	5130205	LYON	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
UT to Little Whippoorwill Creek 0.1 to 0.6	Lower Cumberland	RIVER	5130206	LOGAN	5-NS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR
West Fork Creek (not named on map) 0.6 to 2.0	Lower Cumberland	RIVER	5130206	TODD	5B-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
West Fork Red River 14.2 to 26.4	Lower Cumberland	RIVER	5130206	CHRISTIAN	5-PS	2-FS	3	3	3	3/19/2007	WAH, FC, PCR, SCR
Whippoorwill Creek 0.0 to 13.2	Lower Cumberland	RIVER	5130206	LOGAN	2-FS	2-FS	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Arrowhead Lake	Mississippi River	LAKE	8010100	BALLARD	3	3	3	3	3		WAH, FC, PCR, SCR
Bayou de Chien 0.0 to 4.2	Mississippi River	RIVER	8010201	FULTON	3	3	3	2-FS	3		WAH, FC, PCR, SCR
Bayou de Chien 14.3 to 28.2	Mississippi River	RIVER	8010201	HICKMAN	2-FS	4A-NS	3	2-FS	3	3/21/2006	WAH, FC, PCR, SCR
Bayou de Chien 8.8 to 14.3	Mississippi River	RIVER	8010201	FULTON	5-NS	5-NS	3	3	3	2/27/2007	WAH, FC, PCR, SCR
Brush Creek 0.0 to 6.3	Mississippi River	RIVER	8010201	HICKMAN	5-PS	3	3	3	3	7/7/2000	WAH, FC, PCR, SCR
Brush Creek 0.0 to 8.4	Mississippi River	RIVER	8010201	GRAVES	5-PS	3	3	3	3	7/5/2001	WAH, FC, PCR, SCR
Burnt Pond	Mississippi River	LAKE	8010100	BALLARD	3	3	3	3	3		WAH, FC, PCR, SCR, DWS
Caldwell Creek 0.0 to 3.0	Mississippi River	RIVER	8010202	GRAVES	5-NS	3	3	3	3	6/26/2000	WAH, FC, PCR, SCR
Cane Creek 0.0 to 5.3	Mississippi River	RIVER	8010201	HICKMAN	5-PS	3	3	3	3	7/12/2000	WAH, FC, PCR, SCR
Cane Creek 0.3 to 4.1	Mississippi River	RIVER	8010100	BALLARD	5-PS	3	3	3	3	7/6/2000	WAH, FC, PCR, SCR, DWS
Cane Creek 3.3 to 4.1	Mississippi River	RIVER	8010201	GRAVES	5B-PS	5B-PS	3	3	3	5/4/2002	WAH, FC, PCR, SCR, DWS
Cane Creek 0.0 to 4.4	Mississippi River	RIVER	8010201	HICKMAN	5-NS	3	3	3	3	2/23/2007	WAH, FC, PCR, SCR
Central Creek 0.8 to 2.5	Mississippi River	RIVER	8010201	CARLISLE	3	4A-NS	3	3	3	3/25/2002	WAH, FC, PCR, SCR
Cooley Creek 0.65 to 2.3	Mississippi River	RIVER	8010201	GRAVES	3	4A-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Flat Lake	Mississippi River	LAKE	8010100	BALLARD	3	3	3	3	3		WAH, FC, PCR, SCR
Gilbert Creek 1.7 to 3.5	Mississippi River	RIVER	8010201	GRAVES	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Goose Creek 0.0 to 4.4	Mississippi River	RIVER	8010201	GRAVES	5-PS	3	3	3	3	6/29/2000	WAH, FC, PCR, SCR
Hazel Creek 0.0 to 3.7	Mississippi River	RIVER	8010100	BALLARD	5-NS	3	3	3	3	7/6/2000	CAH, FC, PCR, SCR
Hurricane Creek 0.0 to 3.7	Mississippi River	RIVER	8010201	CARLISLE	5-PS	3	3	3	3	3/21/2006	WAH, FC, PCR, SCR
Jackson Creek 0.0 to 3.0	Mississippi River	RIVER	8010201	GRAVES	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Key Creek 0.0 to 1.9	Mississippi River	RIVER	8010201	GRAVES	5-NS	3	3	3	3	2/28/2007	WAH, FC, PCR, SCR
Knob Creek 1.3 to 3.0	Mississippi River	RIVER	8010202	GRAVES	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Lick Creek 0.0 to 2.2	Mississippi River	RIVER	8010201	CARLISLE	5-PS	3	3	3	3	2/28/2007	WAH, FC, PCR, SCR
Little Bayou de Chein 10.0 to 12.3	Mississippi River	RIVER	8010201	FULTON	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Little Bayou de Chien 0.0 to 1.3	Mississippi River	RIVER	8010201	HICKMAN	5-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Little Creek 0.0 to 5.3	Mississippi River	RIVER	8010201	HICKMAN	5-NS	3	3	3	3	7/7/2000	WAH, FC, PCR, SCR
Little Cypress Creek 0.0 to 2.0	Mississippi River	RIVER	8010201	GRAVES	5-NS	3	3	3	3	6/26/2000	WAH, FC, PCR, SCR
Little Cypress Creek 0.0 to 3.6	Mississippi River	RIVER	8010201	HICKMAN	5-PS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR
Little Cypress Creek 5.8 to 9.2	Mississippi River	RIVER	8010201	HICKMAN	2-FS	3	3	3	3	11/7/2001	WAH, FC, PCR, SCR
Little Mayfield Creek 0.0 to 10.6	Mississippi River	RIVER	8010201	GRAVES	5-PS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Little Mud Creek 0.0 to 1.95	Mississippi River	RIVER	8010201	FULTON	5-PS	3	3	3	3	7/12/2000	WAH, FC, PCR, SCR
Long Creek 0.0 to 0.8	Mississippi River	RIVER	8010201	CARLISLE	5B-PS	5B-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Mayfield Creek 2.2 to 5.5	Mississippi River	RIVER	8010201	CARLISLE	5-PS	3	3	3	3	7/10/2000	WAH, FC, PCR, SCR
Mayfield Creek 20.4 to 36.1	Mississippi River	RIVER	8010201	McCRACKEN	5-PS	3	3	3	3	6/29/2000	WAH, FC, PCR, SCR
Mayfield Creek 36.1 to 38.2	Mississippi River	RIVER	8010201	GRAVES	5-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Mayfield Creek 59.6 to 62.3	Mississippi River	RIVER	8010201	CALLOWAY	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Mayfield Creek 11.1 to 16.5	Mississippi River	RIVER	8010201	CARLISLE	5-NS	5-NS	5-NS	3	3	10/10/2006	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Mayfield Creek 38.2 to 40.8	Mississippi River	RIVER	8010201	GRAVES	5-NS	5-NS	3	3	3	3/2/2007	WAH, FC, PCR, SCR
Mayfield Creek 40.8 to 43.7	Mississippi River	RIVER	8010201	GRAVES	5-NS	3	3	3	3	7/25/2006	WAH, FC, PCR, SCR
Mississippi River 886.9 to 953.5	Mississippi River	RIVER	8010100	FULTON	3	3	3	2-FS	3	3/2/2007	WAH, FC, PCR, SCR
Mud Creek 0.0 to 7.8	Mississippi River	RIVER	8010201	FULTON	5-NS	3	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Obion Creek 40.8 to 44.2	Mississippi River	RIVER	8010201	HICKMAN	5-NS	3	3	3	3	1/4/2002	WAH, FC, PCR, SCR
Obion Creek 44.2 to 49.8	Mississippi River	RIVER	8010201	HICKMAN	5-PS	3	3	3	3	4/4/2002	WAH, FC, PCR, SCR
Obion Creek 0.0. to 16.5	Mississippi River	RIVER	8010201	FULTON	5-NS	5-NS	3	3	3	3/12/2007	WAH, FC, PCR, SCR
Obion Creek 26.7 to 37.1	Mississippi River	RIVER	8010201	HICKMAN	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Obion Creek 49.8 to 55.7	Mississippi River	RIVER	8010201	GRAVES	5-PS	3	3	3	3	1/3/2002	WAH, FC, PCR, SCR
Opossum Creek 0.0 to 2.3	Mississippi River	RIVER	8010201	GRAVES	5-NS	3	3	3	3	6/26/2000	WAH, FC, PCR, SCR
Relict (Natural Channel) Mayfield Creek 17.4 to 20.4	Mississippi River	RIVER	8010201	CARLISLE	5-NS	3	3	3	3	10/3/2007	WAH, FC, PCR, SCR
Running Slough 0.0 to 16.2	Mississippi River	RIVER	8010202	FULTON	5-PS	3	3	3	3	7/5/2001	WAH, FC, PCR, SCR
Sand Creek 0.0 to 3.7	Mississippi River	RIVER	8010201	GRAVES	2-FS	3	3	3	3	12/12/2001	WAH, FC, PCR, SCR
Shawnee Creek 0.0 to 3.2	Mississippi River	RIVER	8010100	BALLARD	5B-NS	5B-PS	3	3	3	5/2/2002 - 1/1/2007	WAH, FC, PCR, SCR
Shawnee Creek 3.2 to 12.4	Mississippi River	RIVER	8010100	BALLARD	5-PS	3	3	2-FS	3	7/5/2001 - 1/28/2008	WAH, FC, PCR, SCR
Shawnee Creek Slough 0.0 to 3.7	Mississippi River	RIVER	8010100	BALLARD	5-NS	2-FS	3	3	3	3/14/2007	WAH, FC, PCR, SCR
South Fork Bayou de Chien 2.0 to 7.4	Mississippi River	RIVER	8010201	GRAVES	5-NS	3	3	3	3	7/5/2001	WAH, FC, PCR, SCR
South Fork of Bayou de Chien 0.0 to 2.0	Mississippi River	RIVER	8010201	GRAVES	5-PS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR
Stovall Creek 0.0 to 3.8	Mississippi River	RIVER	8010201	BALLARD	2-FS	3	3	3	3	7/6/2000	WAH, FC, PCR, SCR
Sugar Creek 0.0 to 1.3	Mississippi River	RIVER	8010201	BALLARD	5-PS	3	3	3	3	6/29/2000	WAH, FC, PCR, SCR
Swan Pond	Mississippi River	LAKE	8010100	BALLARD	2-FS	3	2-FS	3	3	3/6/2006	WAH, FC, PCR, SCR
Terrapin Creek 2.7 to 6.0	Mississippi River	RIVER	8010202	GRAVES	2-FS	5-NS	3	3	3	3/20/2007 - 3/23/2007	WAH, FC, PCR, SCR
Torian Creek 0.0 to 0.8	Mississippi River	RIVER	8010201	GRAVES	5B-PS	5B-PS	3	3	3	8/2/2002	WAH, FC, PCR, SCR
Truman Creek 2.0 to 3.2	Mississippi River	RIVER	8010201	CARLISLE	5B-PS	5B-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Truman Creek 3.2 to 4.1	Mississippi River	RIVER	8010201	CARLISLE	5-PS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR
UT to Brush Creek 0.0 to 1.9	Mississippi River	RIVER	8010201	HICKMAN	5-NS	3	3	3	3		WAH, FC, PCR, SCR
UT to Mayfield Creek 0.0 to 1.0	Mississippi River	RIVER	8010201	McCRACKEN	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
UT to Mayfield Creek 1.1 to 3.5	Mississippi River	RIVER	8010201	GRAVES	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
UT to Mud Creek 0.0 to 2.2	Mississippi River	RIVER	8010201	FULTON	5-NS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR
UT to Obion Creek 1.6 to 2.2	Mississippi River	RIVER	8010201	HICKMAN	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
West Fork Mayfield Creek 5.3 to 15.5	Mississippi River	RIVER	8010201	CARLISLE	2-FS	3	3	3	3	3/21/2006	WAH, FC, PCR, SCR
Wilson Creek 0.0 to 2.1	Mississippi River	RIVER	8010201	CARLISLE	5-NS	5-NS	3	3	3	3/23/2007	WAH, FC, PCR, SCR
Wilson Creek 2.1 to 8.0	Mississippi River	RIVER	8010201	CARLISLE	2-FS	3	3	3	3	7/7/2000	WAH, FC, PCR, SCR
Alexandria Park Lake	Ohio River	RESERVOIR	5090201	CAMPBELL	3	3	3	5-PS	3	1/31/2008	WAH, FC, PCR, SCR, DWS
Allen Fork 2.0 to 4.6	Ohio River	RIVER	5090203	BOONE	5-PS	3	3	3	3	4/11/2001	WAH, FC, PCR, SCR, DWS
Bayou Creek 0.5 to 11.9	Ohio River	RIVER	5140206	McCRACKEN	5-PS	3	3	2-FS	3	2/22/2007	WAH, FC, PCR, SCR
Bayou Creek 0.0 to 19.1	Ohio River	RIVER	5140203	LIVINGSTON	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Bear Run 1.6 to 1.9	Ohio River	RIVER	5140201	BRECKINRIDGE	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Beaverdam Lake	Ohio River	LAKE	5140206	BALLARD	3	3	3	3	3		WAH, FC, PCR, SCR
Beech Fork 0.05 to 3.3	Ohio River	RIVER	5140201	BRECKINRIDGE	2-FS	3	3	3	3	10/1/2007	WAH, FC, PCR, SCR, DWS
Bell Ditch 0.0 to 2.8	Ohio River	RIVER	5140201	DAVIESS	5-NS	3	3	3	3	1/23/2008	WAH, FC, PCR, SCR
Big Bone Creek 1.2 to 10.7	Ohio River	RIVER	5090203	BOONE	2-FS	3	3	3	3	3/3/2005	WAH, FC, PCR, SCR
Big South Fork 0.8 to 3.0	Ohio River	RIVER	5090203	BOONE	2-FS	3	3	3	3	8/1/2000	WAH, FC, PCR, SCR
Big Sugar Creek 0.7 to 2.0	Ohio River	RIVER	5090203	GALLATIN	5-PS	3	3	3	3	3/3/2005	WAH, FC, PCR, SCR
Blackford Creek 0.2 to 4.0	Ohio River	RIVER	5140201	HANCOCK	2-FS	5-NS	3	3	3	1/22/2008	WAH, FC, PCR, SCR
Blackford Creek 4.0 to 8.4	Ohio River	RIVER	5140201	HANCOCK	5-PS	3	3	3	3	2/28/2003	WAH, FC, PCR, SCR
Blackford Creek 8.4 to 10.4	Ohio River	RIVER	5140201	HANCOCK	2-FS	3	3	3	3	1/23/2008	WAH, FC, PCR, SCR
Bracken Creek 2.8 to 11.0	Ohio River	RIVER	5090201	BRACKEN	5-PS	3	3	3	3	10/25/2005	WAH, FC, PCR, SCR
Briery Branch 0.2 to 2.2	Ohio River	RIVER	5090201	LEWIS	5-PS	3	3	3	3	10/24/2005	WAH, FC, PCR, SCR
Brush Creek 0.0 to 1.6	Ohio River	RIVER	5090201	CAMPBELL	2-FS	5-NS	3	3	3	2/5/2001	WAH, FC, PCR, SCR, DWS
Buck Creek 0.0 to 7.6	Ohio River	RIVER	5140203	LIVINGSTON	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR, DWS
Buck Lake	Ohio River	LAKE	5140206	BALLARD	3	3	3	3	3		WAH, FC, PCR, SCR, DWS
Butchers Branch 0.0 to 0.3	Ohio River	RIVER	5140201	HAN CK	2-FS	2-FS	2-FS	3	3	6/3/2005	WAH, FC, PCR, SCR
Butchers Branch 0.3 to 2.4	Ohio River	RIVER	5140201	HAN CK	4A-NS	4A-NS	4A-NS	3	3	2/14/2006	WAH, FC, PCR, SCR, DWS
Cabin Creek 3.6 to 11.3	Ohio River	RIVER	5090201	MASON	5-NS	3	3	3	3	2/5/2001	WAH, FC, PCR, SCR
Camp Creek 0.0 to 4.3	Ohio River	RIVER	5140203	CRITTENDEN	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Canoe Creek 2.4 to 5.0	Ohio River	RIVER	5140202	HENDERSON	5-NS	5-NS	5-NS	3	3	1/23/2008	WAH, FC, PCR, SCR, DWS
Carpenter Lake	Ohio River	RESERVOIR	5140201	DAVIESS	5-PS	3	2-FS	3	3	11/14/2006	WAH, FC, PCR, SCR, DWS
Casey Creek 0.6 to 9.7	Ohio River	RIVER	5140202	UNION	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR, DWS
Clanton Creek 0.0 to 4.9	Ohio River	RIVER	5140206	BALLARD	5-NS	3	3	3	3	7/6/2000	WAH, FC, PCR, SCR, DWS
Clary Branch 0.0 to 1.9	Ohio River	RIVER	5090201	LEWIS	5-PS	3	3	3	3	4/28/2004	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Cedar Creek 0.0 to 5.2	Salt River	RIVER	5140102	BULLITT	2-FS	3	3	3	3	9/20/2005	WAH, FC, PCR, SCR
Cedar Creek 4.2 to 11.1	Salt River	RIVER	5140102	JEFFERSON	2-FS	2-FS	3	3	3	3/12/2001	WAH, FC, PCR, SCR
Chaplin River 0.0 to 23.1	Salt River	RIVER	5140103	NELSON	2-FS	5-NS	2-FS	3	3	12/1/2005	WAH, FC, PCR, SCR
Chaplin River 40.9 to 54.2	Salt River	RIVER	5140103	WASHINGTON	2-FS	3	3	3	3	9/20/2005	WAH, FC, PCR, SCR
Chaplin River 63.0 to 69.7	Salt River	RIVER	5140103	MERCER	5-NS	3	3	3	3	4/9/2001	WAH, FC, PCR, SCR
Chaplin River 69.7 to 78	Salt River	RIVER	5140103	MERCER	2-FS	3	3	3	3	4/9/2001	WAH, FC, PCR, SCR
Chaplin River 32.6 to 32.8	Salt River	RIVER	5140103	WASHINGTON	2-FS	3	3	3	3	4/9/2001	WAH, FC, PCR, SCR
Cheese Lick 0.7 to 4.4	Salt River	RIVER	5140103	ANDERSON	5-PS	3	3	3	3	10/6/2005	WAH, FC, PCR, SCR
Chenoweth Run 0.0 to 5.2	Salt River	RIVER	5140102	JEFFERSON	4A-PS	5-NS	3	3	3	3/12/2001	WAH, FC, PCR, SCR
Chenoweth Run 5.2 to 9.2	Salt River	RIVER	5140102	JEFFERSON	4A-PS	5-NS	3	3	3	3/12/2001	WAH, FC, PCR, SCR
Chickasaw Park Pond	Salt River	POND	5140101	JEFFERSON	3	3	3	5-PS	3	10/7/2005	WAH, FC, PCR, SCR
Clear Creek 0 to 4.4	Salt River	RIVER	5140103	HARDIN	5-NS	3	3	3	3	4/6/2001	WAH, FC, PCR, SCR
Clear Creek 0.0 to 11.0	Salt River	RIVER	5140102	SHELBY	5-NS	3	3	3	3	1/12/2001	WAH, FC, PCR, SCR
Corn Creek 0.0 to 4.1	Salt River	RIVER	5140101	TRIMBLE	2-FS	3	3	3	3	8/2/2000	WAH, FC, PCR, SCR
Cox Creek 11.2 to 15.5	Salt River	RIVER	5140102	NELSON	5-PS	3	3	3	3	7/28/2000	WAH, FC, PCR, SCR
Cox Creek 0.0 to 4.7	Salt River	RIVER	5140102	BULLITT	2-FS	5-PS	2-FS	3	3	12/2/2005	WAH, FC, PCR, SCR
Crooked Creek 1.0 to 10.1	Salt River	RIVER	5140102	SPENCER	2-FS	3	3	3	3	8/2/2000	WAH, FC, PCR, SCR, DWS
Crooked Creek 5.6 to 12.8	Salt River	RIVER	5140103	BULLITT	5-NS	3	3	3	3	8/11/2000	WAH, FC, PCR, SCR
Currys Fork 0.0 to 4.8	Salt River	RIVER	5140102	OLDHAM	5-PS	5-NS	2-FS	3	3	12/1/2005	WAH, FC, PCR, SCR
Doctors Fork 0.0 to 3.8	Salt River	RIVER	5140103	BOYLE	2-FS	3	3	3	3	10/7/2005	WAH, FC, PCR, SCR
Doe Run 4.1 to 7.9	Salt River	RIVER	5140104	MEADE	2-FS	5-NS	3	3	3	3/6/2001	WAH, FC, PCR, SCR
Doe Valley Lake	Salt River	RESERVOIR	5140104	MEADE	3	3	3	3	2-FS	11/15/2005	WAH, FC, PCR, SCR
East Fork Beech Fork 0.0 to 1.9	Salt River	RIVER	5140103	WASHINGTON	5-PS	3	3	3	3	10/7/2005	WAH, FC, PCR, SCR
East Fork Cox Creek 0.0 to 4.3	Salt River	RIVER	5140102	BULLITT	2-FS	3	3	3	3	8/4/2000	WAH, FC, PCR, SCR
Fagan Branch Reservoir	Salt River	RESERVOIR	5140103	MARION	3	3	3	3	2-FS	10/18/2005	WAH, FC, PCR, SCR
Fern Creek 1.3 to 4.4	Salt River	RIVER	5140102	JEFFERSON	5-NS	5-NS	3	3	3	5/2/2001	WAH, FC, PCR, SCR
Fern Creek 0.0 to 1.3	Salt River	RIVER	5140102	JEFFERSON	5-PS	5-NS	3	3	3	3/22/2001	WAH, FC, PCR, SCR
Fern Creek 4.4 to 5.9	Salt River	RIVER	5140102	JEFFERSON	5-PS	5-NS	3	3	3	3/12/2001	WAH, FC, PCR, SCR
Fishpool Creek 0.0 to1.9	Salt River	RIVER	5140102	JEFFERSON	2-FS	2-FS	3	3	3	3/22/2001	WAH, FC, PCR, SCR
Floyds Fork 0.0 to 11.6	Salt River	RIVER	5140102	BULLITT	2-FS	5-NS	2-FS	2-FS	3	9/20/2005	WAH, FC, PCR, SCR
Floyds Fork 11.6 to 24.2	Salt River	RIVER	5140102	JEFFERSON	4A-NS	5-NS	3	3	3	10/15/1999	WAH, FC, PCR, SCR
Floyds Fork 24.2 to 34.1	Salt River	RIVER	5140102	JEFFERSON	5-NS	5-PS	2-FS	3	3	12/1/2005	WAH, FC, PCR, SCR
Floyds Fork 34.1 to 61.9	Salt River	RIVER	5140102	SHELBY	4A-PS	3	3	3	3	12/1/2005	WAH, FC, PCR, SCR
Glens Creek 0.0 to 4.8	Salt River	RIVER	5140103	WASHINGTON	5-PS	3	3	3	3	10/10/2005	WAH, FC, PCR, SCR
Goose Creek 0.3 to 3.6	Salt River	RIVER	5140101	JEFFERSON	5-PS	5-NS	3	3	3	3/12/2001	WAH, FC, PCR, SCR
Goose Creek 3.6 to 13.0	Salt River	RIVER	5140101	JEFFERSON	5-PS	5-NS	3	3	3	3/15/2001	WAH, FC, PCR, SCR
Gravel Creek 0.7 to 2.9	Salt River	RIVER	5140102	BULLITT	2-FS	3	3	3	3	10/10/2005	WAH, FC, PCR, SCR
Guist Creek 0.0 to 15.4	Salt River	RIVER	5140102	SHELBY	2-FS	3	3	3	3	3/25/2002	WAH, FC, PCR, SCR
Guist Creek 15.4 to 27.6	Salt River	RIVER	5140102	SHELBY	5-PS	3	3	2-FS	3	3/25/2002	WAH, FC, PCR, SCR
Guist Creek Lake	Salt River	RESERVOIR	5140102	SHELBY	5-NS	3	2-FS	2B(5)	5-PS	8/26/2005 - 1/31/2008	WAH, FC, PCR, SCR
Hammond Creek 0.0 to 5.2	Salt River	RIVER	5140102	ANDERSON	3	3	3	2-FS	3	8/4/2000	WAH, FC, PCR, SCR
Hardins Creek 0.0 to 5.0	Salt River	RIVER	5140104	BRECKINRIDGE	5-NS	3	3	3	3	7/28/2000	WAH, FC, PCR, SCR
Hardins Creek 0.0 to 7.0	Salt River	RIVER	5140103	WASHINGTON	2-FS	3	3	3	3	3/7/2001	WAH, FC, PCR, SCR
Hardins Creek 13.3 to 22.9	Salt River	RIVER	5140103	MARION	5-PS	3	3	3	3	6/8/2004	WAH, FC, PCR, SCR
Hardins Creek 5.2 to 11.4	Salt River	RIVER	5140104	BRECKINRIDGE	5-PS	3	3	3	3	9/20/2005	WAH, FC, PCR, SCR
Hardy Creek 1.6 to 5.6	Salt River	RIVER	5140101	TRIMBLE	5-PS	3	3	3	3	3/22/2005	WAH, FC, PCR, SCR
Hardy Creek 0.0 to 1.4	Salt River	RIVER	5140101	TRIMBLE	5-NS	3	3	3	3	8/1/1999	WAH, FC, PCR, SCR
Harrods Creek 0.0 to 3.2	Salt River	RIVER	5140101	OLDHAM	4A-NS	5-PS	2-FS	3	3	12/1/2005	WAH, FC, PCR, SCR
Harrods Creek 3.2 to 33.3	Salt River	RIVER	5140101	OLDHAM	3	5-PS	2-FS	3	3	12/1/2005	WAH, FC, PCR, SCR
Harts Run 0.0 to 1.8	Salt River	RIVER	5140103	BULLITT	2-FS	3	3	3	3	9/20/2005	WAH, FC, PCR, SCR
Hayden Creek 0.0 to 1.3	Salt River	RIVER	5140103	MERCER	5-NS	3	3	3	3	3/8/2005	WAH, FC, PCR, SCR
Hite Creek 0.0 to 5.5	Salt River	RIVER	5140101	JEFFERSON	5-NS	3	3	3	3	4/9/2001	WAH, FC, PCR, SCR
Indian Creek 0.0 to 2.9	Salt River	RIVER	5140103	MERCER	2-FS	3	3	3	3	3/8/2005	WAH, FC, PCR, SCR
Jeptha Creek 0.0 to 0.7	Salt River	RIVER	5140102	SHELBY	5-NS	3	3	3	3	8/7/2000	WAH, FC, PCR, SCR
Jones Creek 0.0 to 3.9	Salt River	RIVER	5140103	MARION	5-PS	3	3	3	3	4/6/2001	WAH, FC, PCR, SCR
Lick Creek 0.0 to 4.1	Salt River	RIVER	5140103	WASHINGTON	2-FS	3	3	3	3	3/10/2005	WAH, FC, PCR, SCR
Lick Run Creek 0.0 to 3.5	Salt River	RIVER	5140104	BRECKINRIDGE	5-PS	3	3	3	3	7/28/2000	WAH, FC, PCR, SCR
Little Goose Creek 0.0 to 9.2	Salt River	RIVER	5140101	JEFFERSON	2-FS	5-PS	3	3	3	3/12/2001	WAH, FC, PCR, SCR
Little Kentucky River 0.2 to 21.4	Salt River	RIVER	5140101	TRIMBLE	2-FS	2-FS	2-FS	3	3	12/2/2005	WAH, FC, PCR, SCR
Little Kentucky River 21.0 to 27.0	Salt River	RIVER	5140101	HENRY	5-PS	3	3	3	3	8/8/2000	WAH, FC, PCR, SCR
Little South Fork of North Rolling Fork 0.0 to 3.7	Salt River	RIVER	5140103	CASEY	2-FS	3	3	3	3	9/19/2005	CAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Locust Creek 0.0 to 2.0	Salt River	RIVER	5140101	CARROLL	2-FS	3	3	3	3	8/8/2000	CAH, FC, PCR, SCR
Long Lick Creek 0.0 to 10.5	Salt River	RIVER	5140102	BULLITT	5-NS	3	3	3	3	10/12/2005	WAH, FC, PCR, SCR
Long Lick Creek 3.1 to 21.3	Salt River	RIVER	5140103	WASHINGTON	2-FS	3	3	3	3	6/9/2004	WAH, FC, PCR, SCR
Long Run 0.0 to 10.0	Salt River	RIVER	5140102	JEFFERSON	2-FS	5-NS	3	3	3	3/13/2001	WAH, FC, PCR, SCR
Long Run Lake	Salt River	RESERVOIR	5140102	JEFFERSON	2-FS	3	2-FS	2-FS	3	8/26/2005	WAH, FC, PCR, SCR
Marion County Sportsman Lake	Salt River	RESERVOIR	5140103	MARION	2-FS	3	2-FS	3	3	8/26/2005	WAH, FC, PCR, SCR
McNeely Lake	Salt River	RESERVOIR	5140102	JEFFERSON	2-FS	3	2-FS	5-PS	3	8/26/2005	WAH, FC, PCR, SCR
Mellins Branch 0.0 to 1.5	Salt River	RIVER	5140101	CARROLL	5-PS	3	3	3	3	3/10/2005	WAH, FC, PCR, SCR
Middle Fork Beargrass Creek 0.0 to 2.0	Salt River	RIVER	5140101	JEFFERSON	5-NS	5-NS	3	3	3	3/13/2001	WAH, FC, PCR, SCR
Middle Fork Beargrass Creek 2.0 to 2.9	Salt River	RIVER	5140101	JEFFERSON	5-PS	5-NS	3	3	3	3/13/2001	WAH, FC, PCR, SCR
Middle Fork Beargrass Creek 2.9 to 15.3	Salt River	RIVER	5140101	JEFFERSON	5-PS	5-NS	3	3	3	3/12/2001	WAH, FC, PCR, SCR
Middle Fork Otter Creek 0.0 to 4.2	Salt River	RIVER	5140103	LARUE	2-FS	3	3	3	3	4/6/2001	WAH, FC, PCR, SCR
Miles Park Pond #4	Salt River	RESERVOIR	5140102	JEFFERSON	3	3	3	2-FS	3	1/31/2008	WAH, FC, PCR, SCR
Mill Creek 0.0 to 11.2	Salt River	RIVER	5140101	JEFFERSON	5-NS	5-NS	3	3	3	3/13/2001	WAH, FC, PCR, SCR
Mill Creek 11.8 to 23.6	Salt River	RIVER	5140102	HARDIN	2-FS	3	3	3	3	2/6/2001	WAH, FC, PCR, SCR
Mill Creek 6.0 to 7.0	Salt River	RIVER	5140102	HARDIN	3	3	3	5B-NS	3	2/6/2001	WAH, FC, PCR, SCR
Mill Creek 7.0 to 11.8	Salt River	RIVER	5140102	HARDIN	2-FS	3	3	3	3	2/6/2001	WAH, FC, PCR, SCR
Mill Creek 0.0 to 2.7	Salt River	RIVER	5140103	NELSON	2-FS	3	3	3	3	10/12/2005	WAH, FC, PCR, SCR
Mill Creek Branch 0.0 to 0.7	Salt River	RIVER	5140102	HARDIN	5B-PS	3	3	3	3	2/6/2001	WAH, FC, PCR, SCR
Mill Creek Cutoff 0.0 to 6.7	Salt River	RIVER	5140101	JEFFERSON	2-FS	5-NS	3	3	3	3/12/2001	WAH, FC, PCR, SCR
Monks Creek 0.0 to 1.6	Salt River	RIVER	5140103	NELSON	2-FS	3	3	3	3	10/12/2005	WAH, FC, PCR, SCR
Muddy Fork Beargrass Creek 0.0 to 6.9	Salt River	RIVER	5140101	JEFFERSON	2-FS	5-NS	3	3	3	3/12/2001	WAH, FC, PCR, SCR
Mussin Branch 0.0 to 1.7	Salt River	RIVER	5140103	MARION	4A-NS	4A-NS	4A-NS	3	3	2/14/2006	WAH, FC, PCR, SCR, DWS
North Rolling Fork 0.0 to 3.7	Salt River	RIVER	5140103	MARION	2-FS	3	3	3	3	4/6/2001	WAH, FC, PCR, SCR
North Rolling Fork 16.7 to 20.9	Salt River	RIVER	5140103	BOYLE	2-FS	3	3	3	3	4/6/2001	WAH, FC, PCR, SCR
Northern Ditch 0.0 to 7.3	Salt River	RIVER	5140102	JEFFERSON	5-PS	5-NS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Otter Creek 0.0 to 10.7	Salt River	RIVER	5140104	MEADE	2-FS	5-PS	3	3	3	3/13/2001	WAH, FC, PCR, SCR
Otter Creek 0.0 to 2.9	Salt River	RIVER	5140103	LARUE	2-FS	5-PS	2-FS	3	3	10/13/2005	WAH, FC, PCR, SCR
Overalls Creek 0.0 to 1.3	Salt River	RIVER	5140103	BULLITT	2-FS	3	3	3	3	10/13/2005	WAH, FC, PCR, SCR
Pennsylvania Run 0.0 to 3.3	Salt River	RIVER	5140102	JEFFERSON	5-NS	5-NS	3	3	3	4/16/2004	WAH, FC, PCR, SCR, DWS
Pleasant Run 4.2 to 6.9	Salt River	RIVER	5140103	WASHINGTON	5-PS	3	3	3	3	10/13/2005	WAH, FC, PCR, SCR
Plum Creek 0.0 to 17.8	Salt River	RIVER	5140102	SPENCER	5-NS	3	3	3	3	10/13/2005	WAH, FC, PCR, SCR
Pond Creek 0.0 to 1.5	Salt River	RIVER	5140101	OLDHAM	5-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR, DWS
Pond Creek/Southern Ditch 5.1 to 8.1	Salt River	RIVER	5140102	JEFFERSON	5-NS	5-NS	3	3	3	3/13/2001	CAH, FC, PCR, SCR
Pope Creek 0.0 to 2.1	Salt River	RIVER	5140103	MARION	2-FS	3	3	3	3	3/25/2002	WAH, FC, PCR, SCR
Pope Lick Creek 2.0 to 5.2	Salt River	RIVER	5140102	JEFFERSON	2-FS	5-NS	3	3	3	3/14/2001	WAH, FC, PCR, SCR
Pottinger Creek 0.0 to 5.0	Salt River	RIVER	5140103	NELSON	2-FS	3	3	3	3	3/7/2001	WAH, FC, PCR, SCR
Prather Creek 0.0 to 3.1	Salt River	RIVER	5140103	MARION	2-FS	3	3	3	3	4/6/2001	WAH, FC, PCR, SCR, DWS
Road Run 0.0 to 7.1	Salt River	RIVER	5140103	WASHINGTON	5-PS	3	3	3	3	10/13/2005	WAH, FC, PCR, SCR
Rolling Fork 100.2 to 107.9	Salt River	RIVER	5140103	MARION	3	3	3	3	3		WAH, FC, PCR, SCR
Rolling Fork 41.8 to 62.5	Salt River	RIVER	5140103	LARUE	2-FS	3	3	3	3	4/10/2001	WAH, FC, PCR, SCR
Rolling Fork 62.5 to 76.3	Salt River	RIVER	5140103	LARUE	2-FS	3	3	3	3	8/11/2000	WAH, FC, PCR, SCR
Rolling Fork 76.3 to 93.7	Salt River	RIVER	5140103	MARION	2-FS	3	3	3	3	3/7/2001	WAH, FC, PCR, SCR
Rolling Fork 98.25 to 99.25	Salt River	RIVER	5140103	MARION	3	3	3	3	2-FS	10/18/2005	WAH, FC, PCR, SCR, DWS
Rolling Fork 0.0 to 40.7	Salt River	RIVER	5140103	LARUE	2-FS	5-NS	2-FS	3	3	12/2/2005	WAH, FC, PCR, SCR
Rowan Creek 0.0 to 7.4	Salt River	RIVER	5140103	NELSON	2-FS	3	3	3	3	4/10/2000	WAH, FC, PCR, SCR
Salt Lick Creek 0.0 to 8.4	Salt River	RIVER	5140103	MARION	2-FS	3	3	3	3	8/9/2000	WAH, FC, PCR, SCR
Salt River 11.9 to 26.2	Salt River	RIVER	5140102	BULLITT	2-FS	5-NS	2-FS	5-PS	3	11/30/2005	WAH, FC, PCR, SCR, DWS
Salt River 49.7 to 55.4	Salt River	RIVER	5140102	SPENCER	2-FS	3	3	3	3	3/25/2002	WAH, FC, PCR, SCR
Salt River 55.4 to 55.9	Salt River	RIVER	5140102	SPENCER	2-FS	3	3	2-FS	3	3/2/2001	WAH, FC, PCR, SCR
Salt River 57.1 to 61.25	Salt River	RIVER	5140102	SPENCER	2-FS	2-FS	2-FS	3	2-FS	2/28/2006	WAH, FC, PCR, SCR
Salt River 78.0 to 89.0	Salt River	RIVER	5140102	ANDERSON	2-FS	2-FS	2-FS	5-NS	3	9/20/2005	WAH, FC, PCR, SCR
Salt River 88.5 to 111.2	Salt River	RIVER	5140102	ANDERSON	2-FS	3	3	3	3	8/11/2000	WAH, FC, PCR, SCR, DWS
Salt River 135.5 to 142.8	Salt River	RIVER	5140102	MERCER	2-FS	3	3	3	3	10/14/2005	WAH, FC, PCR, SCR
Scrubgrass Branch 0.2 to 0.7	Salt River	RIVER	5140103	BOYLE	2-FS	3	3	3	3	4/6/2001	WAH, FC, PCR, SCR
Shelby Lake	Salt River	RESERVOIR	5140102	SHELBY	5-PS	3	3	3	3	11/1/1999	WAH, FC, PCR, SCR
Short Creek 0.0 to 5.0	Salt River	RIVER	5140103	WASHINGTON	5-PS	3	3	3	3	6/10/2004	WAH, FC, PCR, SCR
Simpson Creek 0.0 to 6.8	Salt River	RIVER	5140102	SPENCER	3	2-FS	3	3	3	2/1/2001	WAH, FC, PCR, SCR
Sinking Creek 15.4 to 39.7	Salt River	RIVER	5140104	BRECKINRIDGE	2-FS	5-PS	3	3	3	12/1/2005	WAH, FC, PCR, SCR
Sinking Creek 5.9 to 8.7	Salt River	RIVER	5140104	BRECKINRIDGE	3	3	3	3	3		WAH, FC, PCR, SCR
Sinking Creek 8.7 to 15.4	Salt River	RIVER	5140104	BRECKINRIDGE	5-PS	5-NS	3	3	3	9/10/2000	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Clover Creek 7.7 to 9.2	Ohio River	RIVER	5140201	BRECKINRIDGE	5-PS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Coefield Creek 0.0 to 8.9	Ohio River	RIVER	5140203	CRITTENDEN	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Craigs Creek 2.9 to 6.7	Ohio River	RIVER	5090203	GALLATIN	3	3	3	3	3		WAH, FC, PCR, SCR
Crooked Creek 0.0 to 12.1	Ohio River	RIVER	5140203	CRITTENDEN	5-PS	3	3	3	3	2/26/2003	WAH, FC, PCR, SCR, DWS
Crooked Creek 0.0 to 5.6	Ohio River	RIVER	5090201	LEWIS	2-FS	3	3	3	3	8/2/2000	WAH, FC, PCR, SCR
Crooked Creek 12.1 to 26.4	Ohio River	RIVER	5140203	CRITTENDEN	5-NS	5-NS	3	3	3	1/24/2008	WAH, FC, PCR, SCR
Deer Creek 0.0 to 8.1	Ohio River	RIVER	5140203	LIVINGSTON	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Dennis O'nan Ditch/Cypress Creek 0.4 to 10.9	Ohio River	RIVER	5140203	UNION	2-FS	5-NS	2-FS	3	3	1/7/2008	WAH, FC, PCR, SCR
Double Lick Creek 0.0 to 3.5	Ohio River	RIVER	5090203	BOONE	2-FS	3	3	3	3	3/7/2005	WAH, FC, PCR, SCR
Dry Creek 0.2 to 7.0	Ohio River	RIVER	5090203	BOONE	5-PS	3	3	3	3	8/3/2000	WAH, FC, PCR, SCR
Dry Creek 1.1 to 3.0	Ohio River	RIVER	5090203	GALLATIN	5-PS	3	3	3	3	8/3/2000	WAH, FC, PCR, SCR
Dyer Hill Creek 0.4 to 6.0	Ohio River	RIVER	5140203	LIVINGSTON	5-PS	3	3	3	3	1/23/2008	WAH, FC, PCR, SCR
East Fork Cabin Creek 0.0 to 4.7	Ohio River	RIVER	5090201	LEWIS	2-FS	3	3	3	3	10/27/2005	WAH, FC, PCR, SCR
East Fork of Canoe Creek 0.0 to 4.4	Ohio River	RIVER	5140202	HENDERSON	5-PS	3	3	3	3	10/1/2007	WAH, FC, PCR, SCR
Elijahs Creek 0.0 to 5.2	Ohio River	RIVER	5090203	BOONE	4A-NS	3	3	3	3	4/11/2001	WAH, FC, PCR, SCR
Fish Lake	Ohio River	LAKE	5140206	BALLARD	3	3	3	5-PS	3	1/31/2008	WAH, FC, PCR, SCR
Fourmile Creek 0.2 to 8.5	Ohio River	RIVER	5090201	CAMPBELL	2-FS	5-NS	3	3	3	8/3/2000	WAH, FC, PCR, SCR
Fourmile Creek 8.5 to 9.4	Ohio River	RIVER	5090201	CAMPBELL	2-FS	3	3	3	3	4/10/2001	WAH, FC, PCR, SCR
Garrison Creek 0.0 to 4.85	Ohio River	RIVER	5090203	BOONE	2-FS	3	3	3	3	3/7/2005	WAH, FC, PCR, SCR
Goose Creek 0.0 to 1.9	Ohio River	RIVER	5090201	BRACKEN	5-PS	3	3	3	3	8/3/2000	WAH, FC, PCR, SCR
Goose Pond Ditch/Wardens Slough 0.0 to 13.6	Ohio River	RIVER	5140203	UNION	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Grassy Fork 0.0 to 3.9	Ohio River	RIVER	5090201	LEWIS	2-FS	3	3	3	3	11/2/2005	WAH, FC, PCR, SCR
Gunpowder Creek 0.0 to 15.0	Ohio River	RIVER	5090203	BOONE	5-NS	3	3	3	3	1/8/2001	WAH, FC, PCR, SCR
Gunpowder Creek 15.4 to 17.1	Ohio River	RIVER	5090203	BOONE	4A-NS	3	3	3	3	8/3/1999	WAH, FC, PCR, SCR
Gunpowder Creek 18.9 to 21.6	Ohio River	RIVER	5090203	BOONE	5-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Happy Hollow Lake	Ohio River	LAKE	5140206	BALLARD	3	3	3	3	3		WAH, FC, PCR, SCR
Highland Creek 0.0 to 7.6	Ohio River	RIVER	5140202	UNION	5-PS	5-NS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Highland Creek 7.6 to 21.4	Ohio River	RIVER	5140202	HENDERSON	5-NS	5-NS	5-NS	3	3	1/22/2008	WAH, FC, PCR, SCR
Hood Creek 0.0 to 5.4	Ohio River	RIVER	5090103	BOYD	2-FS	2-FS	3	3	3	1/16/2004	WAH, FC, PCR, SCR
Humphrey Creek 0.0 to 3.7	Ohio River	RIVER	5140206	BALLARD	5-PS	2-FS	3	3	3	5/2/2002	CAH, FC, PCR, SCR
Humphrey Creek 3.7 to 11.6	Ohio River	RIVER	5140206	BALLARD	2-FS	5-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Humphrey Creek 11.6 to 13.0	Ohio River	RIVER	5140206	BALLARD	5B-PS	5B-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Indian Creek 0.0 to 9.4	Ohio River	RIVER	5090201	LEWIS	2-FS	3	3	3	3	1/10/2001	WAH, FC, PCR, SCR
Kingfisher Lake	Ohio River	RESERVOIR	5140201	DAVIESS	2-FS	3	2-FS	3	3	11/14/2006	WAH, FC, PCR, SCR
Kinniconick Creek 0.8 to 50.9	Ohio River	RIVER	5090201	LEWIS	2-FS	2-FS	2-FS	3	3	9/20/2005	WAH, FC, PCR, SCR
Lake George (Marion City Lake)	Ohio River	RESERVOIR	5140203	CRITTENDEN	2-FS	3	2-FS	3	3	11/14/2006	WAH, FC, PCR, SCR
Lake Jericho	Ohio River	RESERVOIR	5140101	HENRY	5-NS	3	2-FS	3	3	8/26/2005	WAH, FC, PCR, SCR, DWS
Laurel Fork 5.8 to 15.9	Ohio River	RIVER	5090201	LEWIS	5-PS	3	3	3	3	11/3/2005	WAH, FC, PCR, SCR
Lawrence Creek 2.6 to 4.2	Ohio River	RIVER	5090201	MASON	2-FS	3	3	3	3	11/3/2005	CAH, FC, PCR, SCR
Lead Creek 0.0 to 0.8	Ohio River	RIVER	5140201	HANCOCK	2-FS	2-FS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Lead Creek 3.5 to 4.5	Ohio River	RIVER	5140201	HANCOCK	5B-NS	5B-NS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Lee Creek 0.0 to 2.0	Ohio River	RIVER	5090201	MASON	3	3	3	3	3		WAH, CAH, FC, PCR, SCR
Little Bayou Creek 0.0 to 7.2	Ohio River	RIVER	5140206	McCRACKEN	4A-PS	3	3	5-NS	3	5/2/2002	WAH, FC, PCR, SCR
Little South Fork 1.2 to 5.9	Ohio River	RIVER	5090203	BOONE	2-FS	3	3	3	3	4/24/2004	WAH, FC, PCR, SCR
Locust Creek 0.0 to 4.1	Ohio River	RIVER	5090201	BRACKEN	2-FS	5-NS	3	3	3	8/8/2000	WAH, FC, PCR, SCR
Locust Creek 4.1 to 12.2	Ohio River	RIVER	5090201	BRACKEN	5-NS	3	3	3	3	8/8/2000	WAH, FC, PCR, SCR
Long Pond	Ohio River	LAKE	5140206	BALLARD	3	3	3	3	3		WAH, FC, PCR, SCR
Massac Creek 4.1 to 4.7	Ohio River	RIVER	5140206	McCRACKEN	5-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Massac Creek 4.7 to 7.9	Ohio River	RIVER	5140206	McCRACKEN	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Mauzy Lake	Ohio River	RESERVOIR	5140202	UNION	2-FS	3	2-FS	3	3	11/14/2006	WAH, FC, PCR, SCR
McCools Creek 0.0 to 6.7	Ohio River	RIVER	5090203	CARROLL	3	3	3	3	3		WAH, FC, PCR, SCR
McCoys Fork 0.0 to 2.2	Ohio River	RIVER	5090203	BOONE	3	3	3	3	3		WAH, FC, PCR, SCR
Metropolis Lake	Ohio River	LAKE	5140206	McCRACKEN	5-PS	3	2-FS	5-PS	3	1/1/2000 - 3/6/2006	WAH, FC, PCR, SCR
Middle Fork of Massac Creek 0.0 to 6.4	Ohio River	RIVER	5140206	McCRACKEN	5-PS	3	3	3	3	3/21/2007	WAH, FC, PCR, SCR
Mitchell Lake	Ohio River	RESERVOIR	5140206	BALLARD	3	3	3	3	3		WAH, FC, PCR, SCR
Montgomery Creek 0.0 to 6.5	Ohio River	RIVER	5090201	LEWIS	5-PS	3	3	3	3	3/11/2005	WAH, FC, PCR, SCR
Mudlick Creek 0.0 to 6.6	Ohio River	RIVER	5090203	BOONE	3	3	3	2-FS	3	8/9/2000	WAH, FC, PCR, SCR
Mudlick Creek 6.6 to 11.3	Ohio River	RIVER	5090203	BOONE	3	3	3	3	3		WAH, FC, PCR, SCR
Newberry Branch 0.0 to 2.8	Ohio River	RIVER	5090103	GREENUP	5-NS	3	3	3	3	11/11/2003	WAH, FC, PCR, SCR
Newtons Creek 0.3 to 8.2	Ohio River	RIVER	5140206	McCRACKEN	5-PS	3	3	3	3	3/12/2007	WAH, FC, PCR, SCR
Pleasant Run Creek 0.2 to 3.4	Ohio River	RIVER	5090203	KENTON	2-FS	3	3	3	3	7/9/2004	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Pup Creek 2.4 to 7.25	Ohio River	RIVER	5140201	DAVIESS	2-FS	3	3	3	3	1/24/2008	WAH, FC, PCR, SCR
Reformatory Lake	Ohio River	RESERVOIR	5140101	OLDHAM	2-FS	3	2-FS	2-FS	3	8/26/2005	WAH, FC, PCR, SCR
Sadler Creek 0.0 to 2.4	Ohio River	RIVER	5140203	LIVINGSTON	5-PS	3	3	3	3	1/24/2008	WAH, FC, PCR, SCR
Salt Lick Creek 0.2 to 7.2	Ohio River	RIVER	5090201	LEWIS	5-PS	3	3	3	3	6/24/2004	WAH, FC, PCR, SCR
Scenic Lake	Ohio River	RESERVOIR	5140202	HENDERSON	5-PS	3	3	3	3	1/1/1992	WAH, FC, PCR, SCR
Second Creek 0.5 to 2.9	Ohio River	RIVER	5090203	BOONE	2-FS	3	3	3	3	11/8/2005	WAH, FC, PCR, SCR
Shelby Lake	Ohio River	LAKE	5140206	BALLARD	3	3	3	3	3		WAH, FC, PCR, SCR
Snag Creek 0.5 to 5.5	Ohio River	RIVER	5090201	BRACKEN	3	5-NS	3	3	3	8/14/2000	WAH, FC, PCR, SCR
South Fork Gunpowder Creek 4.1 to 6.8	Ohio River	RIVER	5090203	BOONE	3	5-NS	3	3	3	3/3/2001	WAH, FC, PCR, SCR
South Fork Gunpowder Creek 0.0 to 2.0	Ohio River	RIVER	5090203	BOONE	5-NS	3	3	3	3	4/10/2001	WAH, FC, PCR, SCR
Stephens Creek 0.0 to 1.8	Ohio River	RIVER	5090203	GALLATIN	2-FS	3	3	3	3	8/10/2000	WAH, FC, PCR, SCR
Straight Fork 0.0 to 1.9	Ohio River	RIVER	5090201	LEWIS	2-FS	3	3	3	3	4/11/2001	WAH, FC, PCR, SCR
Sugg Creek 0.0 to 1.3	Ohio River	RIVER	5140203	UNION	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Tenmile Creek 0.05 to 1.15	Ohio River	RIVER	5090201	CAMPBELL	5-PS	3	3	3	3	3/16/2005	WAH, FC, PCR, SCR
Trace Creek 0.2 to 4.6	Ohio River	RIVER	5090201	LEWIS	5-PS	3	3	3	3	11/14/2005	WAH, FC, PCR, SCR
Turner Lake	Ohio River	LAKE	5140206	BALLARD	2-FS	3	2-FS	3	3	1/23/2006	WAH, FC, PCR, SCR
Twelve Mile Creek 3.5 to 9.0	Ohio River	RIVER	5090201	CAMPBELL	2-FS	3	3	3	3	8/11/2000	WAH, FC, PCR, SCR
Twelvemile Creek 10.4 to 13.2	Ohio River	RIVER	5090201	CAMPBELL	2-FS	3	3	3	3	11/14/2005	WAH, FC, PCR, SCR
UT to Big Sugar Creek 1.0 to 1.8	Ohio River	RIVER	5090203	GALLATIN	2-FS	3	3	3	3	3/4/2005	WAH, FC, PCR, SCR
UT to Chinns Branch 0.0 to 1.1	Ohio River	RIVER	5090103	GREENUP	5-NS	3	3	3	3	11/10/2003	WAH, FC, PCR, SCR
UT to Eagle Creek 0.0 to 1.6	Ohio River	RIVER	5140203	UNION	5B-NS	5B-NS	3	3	3	1/24/2008	WAH, FC, PCR, SCR
UT to Humphrey Branch 0.0 to 1.4	Ohio River	RIVER	5140206	BALLARD	5B-PS	5B-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
UT to Massac Creek 0.0 to 0.4	Ohio River	RIVER	5140206	McCRACKEN	5B-PS	5B-PS	3	3	3	3/1/2007	WAH, FC, PCR, SCR
UT to Massac Creek 0.0 to 0.7	Ohio River	RIVER	5140206	McCRACKEN	3	5B-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
UT to Massac Creek 0.0 to 1.7	Ohio River	RIVER	5140206	McCRACKEN	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
UT to Ohio River 3.55 to 3.7	Ohio River	RIVER	5140206	McCRACKEN	5B-PS	3	3	3	3	3/12/2007	WAH, FC, PCR, SCR
UT to Rush Creek 0.0 to 1.3	Ohio River	RIVER	5140203	CRITTENDEN	5-PS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
UT to UT to Eagle Creek	Ohio River	RIVER	5140203	UNION	5B-NS	3	3	3	3	1/24/2008	WAH, FC, PCR, SCR
UT to UT to West Fork of Massac Creek 0.0 to 0.7	Ohio River	RIVER	5140206	McCRACKEN	5B-NS	5B-NS	3	3	3	3/19/2007	WAH, FC, PCR, SCR
UT to West Fork Massac Creek 0.0 to 0.8	Ohio River	RIVER	5140206	McCRACKEN	5B-PS	5B-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
UT to West Fork of Massac Creek 0.0 to 0.8	Ohio River	RIVER	5140206	McCRACKEN	5B-PS	3	3	3	3	3/19/2007	WAH, FC, PCR, SCR
UT to West Fork of Massac Creek 1.75 to 2.0	Ohio River	RIVER	5140203	McCRACKEN	5-PS	3	3	3	3	3/19/2007	WAH, FC, PCR, SCR
West Fork of Massac Creek 0.0 to 0.3	Ohio River	RIVER	5140206	McCRACKEN	5B-PS	3	3	3	3	4/1/1998	WAH, FC, PCR, SCR
West Fork of Massac Creek 1.0 to 6.2	Ohio River	RIVER	5140206	McCRACKEN	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Woolper Creek 11.9 to 14.0	Ohio River	RIVER	5090203	BOONE	5-NS	5-NS	3	3	3	8/10/2000	WAH, FC, PCR, SCR
Woolper Creek 2.8 to 7.2	Ohio River	RIVER	5090203	BOONE	3	5-NS	3	3	3	8/10/2000	WAH, FC, PCR, SCR
Ashes Creek 0.4 to 6.6	Salt River	RIVER	5140102	NELSON	2-FS	3	3	3	3	10/5/2005	WAH, FC, PCR, SCR
Beargrass Creek 0.5 to 1.8	Salt River	RIVER	5140101	JEFFERSON	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Beaver Creek 0.0 to 20.9	Salt River	RIVER	5140103	ANDERSON	2-FS	3	3	3	3	4/9/2001	WAH, FC, PCR, SCR
Beaver Lake	Salt River	RESERVOIR	5140103	ANDERSON	2-FS	3	4C-PS	3	3	8/25/2005	WAH, FC, PCR, SCR
Beech Creek 4.6 to 19.6	Salt River	RIVER	5140102	SHELBY	2-FS	5-NS	5-NS	3	3	10/5/2005	WAH, FC, PCR, SCR
Beech Fork 109.7 to 111.9	Salt River	RIVER	5140103	MARION	2-FS	3	3	3	3	10/5/2005	WAH, FC, PCR, SCR
Beech Fork 39.5 to 50.4	Salt River	RIVER	5140103	NELSON	2-FS	5-NS	2-FS	2-FS	3	9/20/2005	WAH, FC, PCR, SCR
Beech Fork 49.7 to 56.5	Salt River	RIVER	5140103	WASHINGTON	2-FS	3	3	3	3	8/11/2000	CAH, FC, PCR, SCR
Beech Fork 56.5 to 85.3	Salt River	RIVER	5140103	WASHINGTON	2-FS	3	3	3	3	8/11/2000	WAH, FC, PCR, SCR, DWS
Beech Fork 0.0 to 12.0	Salt River	RIVER	5140103	NELSON	2-FS	3	3	3	3	12/2/2005	WAH, FC, PCR, SCR
Big South Fork 16.6 to 18.0	Salt River	RIVER	5140103	MARION	2-FS	3	3	3	3	10/6/2005	WAH, FC, PCR, SCR
Big South Fork 0.0 to 12.4	Salt River	RIVER	5140103	MARION	2-FS	5-PS	2-FS	3	3	9/11/2000	WAH, FC, PCR, SCR
Blue Spring Ditch 0.0 to 2.1	Salt River	RIVER	5140102	JEFFERSON	2-FS	5-NS	3	3	3	2/22/2006	WAH, FC, PCR, SCR
Brashears Creek 0.0 to 13.0	Salt River	RIVER	5140102	SPENCER	2-FS	5-NS	2-FS	3	3	12/2/2005	WAH, FC, PCR, SCR
Brashears Creek 13.0 to 25.8	Salt River	RIVER	5140102	SHELBY	2-FS	3	3	3	3	9/20/2005	WAH, FC, PCR, SCR
Brooks Run 0.0 to 2.5	Salt River	RIVER	5140102	BULLITT	5-PS	2-FS	3	3	3	2/9/2001	WAH, FC, PCR, SCR
Brooks Run 2.5 to 4.1	Salt River	RIVER	5140102	BULLITT	5-PS	5-PS	3	3	3	2/7/2006	WAH, FC, PCR, SCR
Brooks Run 4.1 to 6.1	Salt River	RIVER	5140102	BULLITT	5-PS	5-NS	3	3	3	2/7/2006	WAH, FC, PCR, SCR
Buchanan Creek 0.0 to 3.7	Salt River	RIVER	5140102	MERCER	2-FS	3	3	3	3	10/6/2005	WAH, FC, PCR, SCR
Buckhorn Creek 0.0 to 2.3	Salt River	RIVER	5140103	MARION	2-FS	2-FS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Bullitt Lick Creek 0.0 to 2.3	Salt River	RIVER	5140102	BULLITT	5-PS	3	3	3	3	7/28/2000	WAH, FC, PCR, SCR
Bullskin Creek 0.0 to 3.4	Salt River	RIVER	5140102	SHELBY	2-FS	3	3	3	3	6/28/2005	WAH, FC, PCR, SCR
Cane Run 0.0 to 7.6	Salt River	RIVER	5140102	JEFFERSON	2-FS	3	3	3	3	2/5/2001	WAH, FC, PCR, SCR, DWS
Cartwright Creek 0.0 to 6.6	Salt River	RIVER	5140103	WASHINGTON	5-PS	5-NS	3	2-FS	3	4/9/2001	WAH, FC, PCR, SCR
Cartwright Creek 6.6 to12.6	Salt River	RIVER	5140103	WASHINGTON	5-PS	3	3	3	3	4/6/2001	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
South Fork Beargrass Creek 0.0 to 2.7	Salt River	RIVER	5140101	JEFFERSON	5-PS	5-NS	3	3	3	3/15/2001	WAH, FC, PCR, SCR
South Fork Beargrass Creek 2.7 to 13.6	Salt River	RIVER	5140101	JEFFERSON	5-NS	5-NS	3	3	3	3/15/2001	WAH, FC, PCR, SCR
Southern Ditch 0.0 to 5.9	Salt River	RIVER	5140102	JEFFERSON	2-FS	5-NS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Sulphur Creek 0.0 to 10.0	Salt River	RIVER	5140103	ANDERSON	2-FS	5-PS	2-FS	3	3	12/1/2005	WAH, FC, PCR, SCR
Sympson Lake	Salt River	RESERVOIR	5140103	NELSON	2-FS	3	2-FS	3	2-FS	8/26/2005	WAH, FC, PCR, SCR
Taylorsville Lake	Salt River	RESERVOIR	5140102	SPENCER	4A-PS	3	2-FS	5-PS	3	2/28/2006	WAH, FC, PCR, SCR
Thompson Creek 0.0 to 9.2	Salt River	RIVER	5140103	MERCER	5-PS	3	3	3	3	3/17/2005	WAH, FC, PCR, SCR, DWS
Tioga Creek 0.0 to 2.5	Salt River	RIVER	5140104	HARDIN	5-PS	3	3	3	3	10/14/2005	WAH, FC, PCR, SCR
Tom Wallace Lake	Salt River	RESERVOIR	5140102	JEFFERSON	3	3	3	2-FS	3	9/25/2007	WAH, FC, PCR, SCR
Town Creek 0.0 to 4.1	Salt River	RIVER	5140103	NELSON	2-FS	3	3	3	3	4/11/2001	WAH, FC, PCR, SCR
UT to Brooks Run 0.0 to 2.0	Salt River	RIVER	5140102	BULLITT	5-NS	5-NS	3	3	3	8/5/1999	WAH, FC, PCR, SCR
UT to Buffalo Run 0.0 to 1.1	Salt River	RIVER	5140102	BULLITT	5-NS	3	3	3	3	4/8/2004	WAH, FC, PCR, SCR
UT to Carmon Creek 0.0 to 1.9	Salt River	RIVER	5140101	HENRY	3	5B-NS	5B-NS	3	3	9/30/2005	WAH, FC, PCR, SCR
UT to Corn Creek 0.0 to 2.0	Salt River	RIVER	5140101	TRIMBLE	2-FS	3	3	3	3	10/10/2005	WAH, FC, PCR, SCR
UT to Glens Creek 0.0 to 2.3	Salt River	RIVER	5140103	WASHINGTON	2-FS	3	3	3	3	4/6/2004	WAH, FC, PCR, SCR
UT to Hammond Creek 0.0 to 1.8	Salt River	RIVER	5140102	ANDERSON	5-NS	3	3	3	3	4/6/2004	WAH, FC, PCR, SCR
UT to N. Fork Currys Fork 0.0 to 0.1	Salt River	RIVER	5140102	OLDHAM	3	5B-NS	3	3	3	9/28/2005	WAH, FC, PCR, SCR
UT to Pond Creek 0.0 to 0.5	Salt River	RIVER	5140101	OLDHAM	5-NS	3	3	3	3	4/12/2001	WAH, FC, PCR, SCR
UT to Pond Creek 0.5 to 0.9	Salt River	RIVER	5140101	OLDHAM	2-FS	3	3	3	3	4/12/2001	WAH, FC, PCR, SCR
UT to Rolling Fork 0.0 to 0.6	Salt River	RIVER	5140103	MARION	4A-NS	4A-NS	4A-NS	3	3	2/14/2006	WAH, FC, PCR, SCR
UT to Salt River 0.0 to 2.4	Salt River	RIVER	5140102	MERCER	5-PS	3	3	3	3	5/4/2004	WAH, FC, PCR, SCR
UT to Southern Ditch 0.0 to 2.6	Salt River	RIVER	5140102	JEFFERSON	5-NS	3	3	3	3	4/16/2004	WAH, FC, PCR, SCR
UT to UT to Guist Creek 0.0 to 2.4	Salt River	RIVER	5140102	SHELBY	5-PS	3	3	3	3	10/10/2005	WAH, FC, PCR, SCR
West Fork Otter Creek 0.0 to 3.1	Salt River	RIVER	5140103	LARUE	2-FS	3	3	3	3	10/17/2005	WAH, FC, PCR, SCR
Wetwoods Creek (Slop Ditch) 0.0 to 3.7	Salt River	RIVER	5140102	JEFFERSON	5-PS	5-NS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
White Sulphur Creek 0.0 to 3.9	Salt River	RIVER	5140101	HENRY	3	3	3	3	3		WAH, FC, PCR, SCR
Willisburg Lake	Salt River	RESERVOIR	5140103	WASHINGTON	5-PS	3	2-FS	3	2-FS	8/26/2005	WAH, FC, PCR, SCR
Willow Pond	Salt River	POND	5140101	JEFFERSON	3	3	3	2-FS	3	10/7/2005	WAH, FC, PCR, SCR
Wilson Creek 0.0 to 2.2	Salt River	RIVER	5140103	BULLITT	5-NS	3	3	3	3	10/17/2005	WAH, FC, PCR, SCR
Wilson Creek 9.5 to 18.4	Salt River	RIVER	5140103	BULLITT	2-FS	3	3	3	3	2/13/2006	WAH, FC, PCR, SCR
Withrow Creek 0.0 to 3.9	Salt River	RIVER	5140103	NELSON	5-PS	3	3	3	3	10/17/2005	WAH, FC, PCR, SCR
Wolf Creek 0.0 to 8.7	Salt River	RIVER	5140104	MEADE	3	3	3	3	3		WAH, FC, PCR, SCR, DWS
Yellowbank Creek 1.5 to 12.0	Salt River	RIVER	5140104	BRECKINRIDGE	5-PS	3	3	3	3	9/20/2005	WAH, FC, PCR, SCR
Younger Creek 0.0 to 4.5	Salt River	RIVER	5140103	HARDIN	5-PS	3	3	3	3	10/17/2005	WAH, FC, PCR, SCR
Anderson Creek 1.9 to 5.0	Tennessee River	RIVER	6040005	CALLOWAY	2-FS	3	3	3	3	2/21/2007	WAH, FC, PCR, SCR
Angle Creek 0.0 to 0.8	Tennessee River	RIVER	6040006	MARSHALL	5-PS	5-NS	3	3	3	3/25/2002	WAH, FC, PCR, SCR
Bear Creek 0.6 to 1.6	Tennessee River	RIVER	6040006	GRAVES	5B-PS	5B-PS	3	3	3	5/4/2002	WAH, FC, PCR, SCR
Bear Creek 4.0 to 7.2	Tennessee River	RIVER	6040005	MARSHALL	3	5-NS	3	3	3	3/25/2002	WAH, FC, PCR, SCR
Bee Creek 0.0 to 0.7	Tennessee River	RIVER	6040006	CALLOWAY	5-NS	5-NS	3	3	3	3/25/2002 - 2/22/2007	WAH, FC, PCR, SCR
Bee Creek 0.7 to 2.0	Tennessee River	RIVER	6040006	CALLOWAY	2-FS	5-NS	3	3	3	3/25/2002 - 1/1/2007	WAH, FC, PCR, SCR
Beechy Creek 0.5 to 3.7	Tennessee River	RIVER	6040005	CALLOWAY	2-FS	3	3	3	3	8/10/2000	WAH, FC, PCR, SCR
Blizzard Pond 4.8 to 5.8	Tennessee River	RIVER	6040006	McCRACKEN	5B-PS	5B-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Blizzard Pond Drainage Canal 0.0 to 3.7	Tennessee River	RIVER	6040006	McCRACKEN	5-PS	5-NS	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Blood River 10.7 to 18.7	Tennessee River	RIVER	6040005	CALLOWAY	2-FS	3	3	3	3	7/5/2001	WAH, FC, PCR, SCR
Camp Creek 0.0 to 5.4	Tennessee River	RIVER	6040006	McCRACKEN	5-PS	5-PS	3	3	3	3/25/2002	WAH, FC, PCR, SCR
Champion Creek 0.0 to 1.5	Tennessee River	RIVER	6040006	McCRACKEN	5-NS	3	3	3	3	3/25/2002	WAH, FC, PCR, SCR
Chestnut Creek 0.0 to 3.0	Tennessee River	RIVER	6040006	MARSHALL	5-PS	5-PS	3	3	3	3/25/2002	CAH, FC, PCR, SCR
Clarks River 13.2 to 20.6	Tennessee River	RIVER	6040006	McCRACKEN	5-NS	5-PS	3	3	3	3/25/2002 - 2/26/2007	WAH, FC, PCR, SCR
Clarks River 28.7 to 30.7	Tennessee River	RIVER	6040006	MARSHALL	2-FS	3	3	3	3	3/25/2002	WAH, FC, PCR, SCR
Clarks River 31.7 to 34.8	Tennessee River	RIVER	6040006	MARSHALL	2-FS	3	3	3	3	3/25/2002	WAH, FC, PCR, SCR
Clarks River 42.6 to 48.6	Tennessee River	RIVER	6040006	MARSHALL	2-FS	3	3	3	3	3/25/2002	WAH, FC, PCR, SCR
Clarks River 5.0 to 13.2	Tennessee River	RIVER	6040006	McCRACKEN	5-PS	3	3	3	3	3/25/2002	WAH, FC, PCR, SCR
Clarks River 50.9 to 55.6	Tennessee River	RIVER	6040006	CALLOWAY	5-PS	5-NS	3	2-FS	3	5/2/2002	WAH, FC, PCR, SCR
Clarks River 55.6 to 64.7	Tennessee River	RIVER	6040006	CALLOWAY	2B(5)	5-NS	3	2-FS	3	5/2/2002 - 10/2/2007	WAH, FC, PCR, SCR, DWS
Clarks River 34.8 to 42.6	Tennessee River	RIVER	6040006	MARSHALL	5-PS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR, DWS
Clarks River 64.7 to 66.8	Tennessee River	RIVER	6040006	CALLOWAY	5-PS	5-PS	3	3	3	1/1/2007	WAH, FC, PCR, SCR
Clayton Creek 0.75 to 3.3	Tennessee River	RIVER	6040006	CALLOWAY	5-PS	3	3	3	3	1/1/2007	WAH, FC, PCR, SCR
Clayton Creek 3.3 to 7.7	Tennessee River	RIVER	6040006	CALLOWAY	5-PS	5-NS	3	3	3	5/2/2002 - 10/10/2006	WAH, FC, PCR, SCR
Clear Creek 0.7 to 3.1	Tennessee River	RIVER	6040005	MARSHALL	5-PS	3	3	3	3		WAH, FC, PCR, SCR
Cypress Creek 0.1 to 6.3	Tennessee River	RIVER	6040006	MARSHALL	5-NS	2-FS	3	3	3	2/27/2007	WAH, FC, PCR, SCR
Cypress Creek 6.3 to 7.7	Tennessee River	RIVER	6040006	MARSHALL	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Cypress Creek 7.7 to 9.7	Tennessee River	RIVER	6040006	MARSHALL	5-NS	3	3	3	3	2/27/2002	WAH, FC, PCR, SCR
Damon Creek 0.0 to 1.8	Tennessee River	RIVER	6040006	CALLOWAY	2B(5)	5-NS	3	3	3	5/2/2002 - 10/10/2006	WAH, FC, PCR, SCR
Duncan Creek 0.0 to 2.5	Tennessee River	RIVER	6040006	MARSHALL	2-FS	5-PS	3	3	3	5/2/2002	CAH, FC, PCR, SCR
East Fork of Clarks River 0.0 to 2.7	Tennessee River	RIVER	6040006	CALLOWAY	2-FS	3	3	3	3	1/1/2007	CAH, FC, PCR, SCR
East Fork of Clarks River 6.1 to 7.1	Tennessee River	RIVER	6040006	CALLOWAY	3	5B-PS	3	3	3	5/2/2002	CAH, FC, PCR, SCR
Farley Branch 0.0 to 2.2	Tennessee River	RIVER	6040006	CALLOWAY	5-PS	3	3	3	3	2/28/2006	WAH, FC, PCR, SCR
Grindstone Creek 0.2 to 2.3	Tennessee River	RIVER	6040005	CALLOWAY	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Guess Creek 0.0 to 2.6	Tennessee River	RIVER	6040006	LIVINGSTON	5-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Haskell Branch 1.2 to 4.5	Tennessee River	RIVER	6040006	GRAVES	5-PS	3	3	3	3	1/1/2007	WAH, FC, PCR, SCR
Hominy Branch 2.3 to 3.8	Tennessee River	RIVER	8010201	GRAVES	2-FS	3	3	3	3	2/28/2007	WAH, FC, PCR, SCR
Island Creek 0.0 to 5.6	Tennessee River	RIVER	6040006	McCRACKEN	5-PS	5-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Island Creek 5.6 to 10.3	Tennessee River	RIVER	6040006	McCRACKEN	5-PS	3	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Jonathan Creek 10.9 to 19.3	Tennessee River	RIVER	6040005	CALLOWAY	2B(5)	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Jonathan Creek 7.4 to 10.9	Tennessee River	RIVER	6040005	CALLOWAY	5-PS	3	3	3	3	2/28/2007	WAH, FC, PCR, SCR
Kentucky Lake	Tennessee River	RESERVOIR	6040005	CALLOWAY	1-FS	1-FS	1-FS	1-FS	1-FS	11/28/2006	WAH, FC, PCR, SCR
Ledbetter Creek 2.9 to 5.5	Tennessee River	RIVER	6040005	MARSHALL	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Little Cypress Creek 3.4 to 6.0	Tennessee River	RIVER	6040006	MARSHALL	5-NS	3	3	3	3	5/2/2002	CAH, FC, PCR, SCR
Little Cypress Creek 0.0 to 3.4	Tennessee River	RIVER	6040006	MARSHALL	5-NS	5-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Little Jonathan Creek 0.0 to 3.0	Tennessee River	RIVER	6040005	CALLOWAY	2-FS	3	3	3	3	5/2/2002	CAH, FC, PCR, SCR
Little White Oak Creek 0.0 to 2.4	Tennessee River	RIVER	6040006	MARSHALL	5B-PS	5B-PS	3	3	3	3/22/2006	WAH, FC, PCR, SCR
Martin Creek 0.0 to 0.8	Tennessee River	RIVER	6040006	MARSHALL	5B-PS	5B-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR, DWS
Middle Fork Creek 0.2 to 6.0	Tennessee River	RIVER	6040006	MARSHALL	5-PS	5-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR, DWS
Middle Fork of Clarks River 2.7 to 4.8	Tennessee River	RIVER	6040006	CALLOWAY	5-PS	3	3	3	3	3/2/2007	WAH, FC, PCR, SCR
Middle Fork of Clarks River 0.0 to 2.7	Tennessee River	RIVER	6040006	CALLOWAY	5-PS	5-NS	3	3	3	5/2/2002 - 1/1/2007	WAH, FC, PCR, SCR
Panther Creek 0.0 to 3.0	Tennessee River	RIVER	6040005	GRAVES	2-FS	5-NS	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Panther Creek 0.0 to 5.2	Tennessee River	RIVER	6040005	CALLOWAY	2-FS	3	3	3	3	3/12/2007	WAH, FC, PCR, SCR
Panther Creek 3.0 to 4.2	Tennessee River	RIVER	6040006	GRAVES	2-FS	3	3	3	3	6/28/2001	WAH, FC, PCR, SCR
Pryor Branch 0.0 to 2.9	Tennessee River	RIVER	6040006	GRAVES	2-FS	3	3	3	3	6/28/2000	WAH, FC, PCR, SCR
Reeves Branch 0.0 to 0.3	Tennessee River	RIVER	6040006	MARSHALL	5-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Rockhouse Creek 0.0 to 4.8	Tennessee River	RIVER	6040006	CALLOWAY	2-FS	3	3	3	3	3/21/2006	WAH, FC, PCR, SCR
Soldier Creek 0.0 to 5.7	Tennessee River	RIVER	6040006	MARSHALL	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Spring Creek 0.0 to 2.0	Tennessee River	RIVER	6040006	GRAVES	5-PS	3	3	3	3	3/15/2007	WAH, FC, PCR, SCR
Spring Creek 3.6 to 5.4	Tennessee River	RIVER	6040006	GRAVES	5-NS	3	3	3	3	3/15/2007	WAH, FC, PCR, SCR
Sugar Creek 0.0 to 3.9	Tennessee River	RIVER	6040006	GRAVES	2-FS	3	3	3	3	6/28/2000	WAH, FC, PCR, SCR
Sugar Creek 2.0 to 5.5	Tennessee River	RIVER	6040005	CALLOWAY	2-FS	3	3	3	3	3/15/2007	WAH, FC, PCR, SCR
Tennessee River 12.0 to 21.8	Tennessee River	RIVER	6040006	MARSHALL	2-FS	3	3	3	3	12/3/2001	WAH, FC, PCR, SCR
Tennessee River 21.8 to 23.1	Tennessee River	RIVER	6040006	MARSHALL	4C-PS	3	3	2-FS	3	3/20/2006	WAH, FC, PCR, SCR
Tennessee River 4.6 to 10.5	Tennessee River	RIVER	6040006	McCRACKEN	2-FS	3	3	3	3	3/20/2007	WAH, FC, PCR, SCR
Tennessee River 1.5 to 4.1	Tennessee River	RIVER	6040006	McCRACKEN	3	5B-NS	3	3	3	3/16/2007	WAH, FC, PCR, SCR
Trace Creek 1.1 to 5.9	Tennessee River	RIVER	6040006	GRAVES	2-FS	3	3	3	3	3/16/2007	WAH, FC, PCR, SCR
Turkey Creek 1.8 to 3.9	Tennessee River	RIVER	6040005	TRIGG	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Turkey Creek 0.0 to 3.4	Tennessee River	RIVER	6040006	GRAVES	5-PS	3	3	3	3	1/1/2007	WAH, FC, PCR, SCR
UT to Chestnut Creek 0.0 to 0.7	Tennessee River	RIVER	6040006	MARSHALL	5B-PS	5B-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
UT to Clarks River 0.0 to 3.3	Tennessee River	RIVER	6040006	CALLOWAY	5-NS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR
UT to Old Beaver Dam Slough 0.0 to 0.5	Tennessee River	RIVER	6040006	MARSHALL	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
UT to Stice Creek 0.0 to 0.4	Tennessee River	RIVER	6040006	MARSHALL	3	5B-NS	3	3	3	3/15/2007	WAH, FC, PCR, SCR
UT to Sugar Creek 0.0 to 3.0	Tennessee River	RIVER	6040005	CALLOWAY	2-FS	3	3	3	3		WAH, FC, PCR, SCR
UT to UT to Panther Creek 0.0 to 1.7	Tennessee River	RIVER	6040006	GRAVES	2-FS	3	3	3	3		WAH, FC, PCR, SCR
UT to UT to Tennessee River (Kentucky Lake) 0.15 to 0.8	Tennessee River	RIVER	6040005	CALLOWAY	5-NS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR
Wades Creek 0.0 to 4.0	Tennessee River	RIVER	6040006	MARSHALL	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR, DWS
West Fork of Clarks River 0.0 to 10.4	Tennessee River	RIVER	6040006	McCRACKEN	5-NS	5-NS	3	3	3	3/16/2007	WAH, FC, PCR, SCR
West Fork of Clarks River 13.1 to 17.2	Tennessee River	RIVER	6040006	GRAVES	2-FS	5-NS	3	3	3	5/4/2002	WAH, FC, PCR, SCR
West Fork of Clarks River 17.2 to 20.0	Tennessee River	RIVER	6040006	MARSHALL	2-FS	3	3	3	3	3/21/2006	WAH, FC, PCR, SCR
West Fork of Clarks River 20.1 to 28.4	Tennessee River	RIVER	6040006	MARSHALL	2-FS	5-PS	3	5-PS	3	10/10/2006	WAH, FC, PCR, SCR
West Fork of Clarks River 34.2 to 38.2	Tennessee River	RIVER	6040006	CALLOWAY	2B(5)	3	3	3	3	3/16/2007	WAH, FC, PCR, SCR, DWS
West Fork of Clarks River (Relict Channel) 0.0 to 13.8	Tennessee River	RIVER	6040006	GRAVES	2-FS	3	3	3	3	7/11/2000	WAH, FC, PCR, SCR
West Fork of Clarks River (Relict Channel) 19.7 to 22.7	Tennessee River	RIVER	6040006	MARSHALL	2-FS	3	3	5-PS	3	1/3/2002	WAH, FC, PCR, SCR
Wildcat Creek 1.3 to 6.8	Tennessee River	RIVER	6040005	CALLOWAY	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Bishop Ditch 0.0 to 2.7	Tradewater	RIVER	5140205	WEBSTER	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Brooks Creek 0.0 to 4.9	Tradewater	RIVER	5140205	HOPKINS	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Buffalo Creek 0.0 to 6.8	Tradewater	RIVER	5140205	HOPKINS	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR

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Bull Creek 0.0 to 1.0	Tradewater	RIVER	5140205	WEBSTER	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Cane Run 0.0 to 4.0	Tradewater	RIVER	5140205	HOPKINS	4A-NS	4A-NS	4A-NS	3	3	4/1/1998	WAH, FC, PCR, SCR
Caney Creek 0.0 to 3.3	Tradewater	RIVER	5140205	CALDWELL	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Caney Creek 0.0 to 8.2	Tradewater	RIVER	5140205	HOPKINS	5-NS	5-NS	5-NS	3	3	10/1/2007	WAH, FC, PCR, SCR
Caney Fork 3.4 to 7.9	Tradewater	RIVER	5140205	WEBSTER	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Castleberry Creek 0.0 to 2.1	Tradewater	RIVER	5140205	CHRISTIAN	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Clear Creek 0.0 to 7.5	Tradewater	RIVER	5140205	HOPKINS	5-NS	2-FS	2-FS	3	3	1/18/2008	WAH, FC, PCR, SCR
Clear Creek 19.4 to 26.2	Tradewater	RIVER	5140205	HOPKINS	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Clear Creek 26.2 to 26.5	Tradewater	RIVER	5140205	HOPKINS	3	5-NS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Copper Creek 0.0 to 2.7	Tradewater	RIVER	5140205	HOPKINS	5-NS	5-NS	5-NS	3	3	10/1/2007	WAH, FC, PCR, SCR
Copperas Creek 0.0 to 3.6	Tradewater	RIVER	5140205	HOPKINS	5-NS	4A-NS	4A-NS	3	3	10/1/2007	WAH, FC, PCR, SCR
Craborchard Creek (including Vaughn Ditch) 0.0 to 14.7	Tradewater	RIVER	5140205	WEBSTER	2-FS	5-NS	2-FS	3	3	1/7/2008 - 1/17/2008	WAH, FC, PCR, SCR
Craborchard Creek 19.2 to 21.5	Tradewater	RIVER	5140205	WEBSTER	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Donaldson Creek 0.0 to 14.2	Tradewater	RIVER	5140205	HOPKINS	2-FS	5-NS	5-PS	3	3	1/18/2008	WAH, FC, PCR, SCR
East Fork of Flynn Fork 2.1 to 4.6	Tradewater	RIVER	5140205	CALDWELL	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
East Fork of Hurricane Creek 0.0 to 2.2	Tradewater	RIVER	5140205	HOPKINS	5-NS	3	3	3	3	10/1/2007	WAH, FC, PCR, SCR
Fox Run 0.0 to 1.1	Tradewater	RIVER	5140205	HOPKINS	5-NS	5-NS	5-NS	3	3	10/1/2007	WAH, FC, PCR, SCR, DWS
Hoods Creek 0.0 to 7.2	Tradewater	RIVER	5140205	CRITTENDEN	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Hurricane Creek 0.0 to 1.8	Tradewater	RIVER	5140205	HOPKINS	5-NS	5-NS	5-NS	3	3	1/11/2008	WAH, FC, PCR, SCR
Lake Beshear	Tradewater	RESERVOIR	5140205	CALDWELL	2-FS	3	2-FS	2-FS	2-FS	11/14/2006 - 1/28/2008	WAH, FC, PCR, SCR
Lake Peewee	Tradewater	RESERVOIR	5140205	HOPKINS	2-FS	3	2-FS	3	2B(5)	11/14/2006	WAH, FC, PCR, SCR, DWS
Lambs Creek 0.0 to 3.3	Tradewater	RIVER	5140205	HOPKINS	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Lick Creek 0.0 to 11.9	Tradewater	RIVER	5140205	HOPKINS	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Loch Mary	Tradewater	RESERVOIR	5140205	HOPKINS	2-FS	3	2-FS	3	2-FS	11/14/2006	WAH, FC, PCR, SCR
Lynn Fork 0.0 to 2.4	Tradewater	RIVER	5140205	WEBSTER	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Moffit Lake	Tradewater	RESERVOIR	5140205	UNION	2-FS	3	2-FS	3	3	11/14/2006	WAH, FC, PCR, SCR
Montgomery Creek 0.0 to 7.3	Tradewater	RIVER	5140205	CALDWELL	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Owens Creek 1.7 to 2.3	Tradewater	RIVER	5140205	WEBSTER	5B-NS	3	3	3	3	1/11/2008	WAH, FC, PCR, SCR
Pennyrile Lake	Tradewater	RESERVOIR	5140205	CHRISTIAN	2-FS	3	2-FS	3	3	11/14/2006	WAH, FC, PCR, SCR
Pigeonroost Creek 0.0 to 3.9	Tradewater	RIVER	5140205	CRITTENDEN	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Piney Creek 17.1 to 25.4	Tradewater	RIVER	5140205	CRITTENDEN	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Piney Creek 4.5 to 10.2	Tradewater	RIVER	5140205	CALDWELL	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
Pogue Creek 0.0 to 4.9	Tradewater	RIVER	5140205	HOPKINS	2-FS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Pond Creek 0.0 to 5.5	Tradewater	RIVER	5140205	HOPKINS	5-PS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Providence City Reservoir	Tradewater	RESERVOIR	5140205	WEBSTER	2-FS	3	2-FS	3	2-FS	1/1/2002 - 1/28/2008	WAH, FC, PCR, SCR
Relict Channel of Cypress Creek 0.5 to 3.3	Tradewater	RIVER	5140205	UNION	2-FS	5-NS	5-PS	3	3	1/18/2008	WAH, FC, PCR, SCR, DWS
Richland Creek 0.0 to 4.5	Tradewater	RIVER	5140205	HOPKINS	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Sandlick Creek 4.5 to 8.6	Tradewater	RIVER	5140205	CHRISTIAN	2-FS	3	3	3	3	1/16/2008	WAH, FC, PCR, SCR
Sugar Creek 0.0 to 5.3	Tradewater	RIVER	5140205	HOPKINS	4A-NS	4A-NS	4A-NS	3	3	3/1/2003	WAH, FC, PCR, SCR
Trace Branch 2.4 to 2.8	Tradewater	RIVER	5140205	HOPKINS	5B-NS	3	3	3	3	1/16/2008	WAH, FC, PCR, SCR
Tradewater River 0.0 to 16.8	Tradewater	RIVER	5140205	UNION	2-FS	5-NS	3	3	3	3/27/2003	WAH, FC, PCR, SCR
Tradewater River 122.9 to 133.9	Tradewater	RIVER	5140205	CHRISTIAN	2-FS	3	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Tradewater River 20.6 to 46.4	Tradewater	RIVER	5140205	WEBSTER	5-NS	5-NS	5-NS	3	2-FS	1/16/2008	WAH, FC, PCR, SCR
Tradewater River 63.1 to 79.4	Tradewater	RIVER	5140205	HOPKINS	5-PS	2-FS	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Tradewater River 96.7 to 98.5	Tradewater	RIVER	5140205	HOPKINS	2-FS	3	3	3	3	1/16/2008	WAH, FC, PCR, SCR
Tradewater River 98.5 to 111.1	Tradewater	RIVER	5140205	CHRISTIAN	5-PS	2-FS	2-FS	3	3	1/16/2008	WAH, FC, PCR, SCR
Tyson Branch 0.0 to 2.5	Tradewater	RIVER	5140205	CALDWELL	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
UT to Clear Creek 0.0 to 2.2	Tradewater	RIVER	5140205	HOPKINS	5B-NS	5B-NS	3	3	3	1/11/2008	WAH, FC, PCR, SCR
UT to Copper Creek 0.0 to 1.1	Tradewater	RIVER	5140205	HOPKINS	5-NS	3	3	3	3	10/1/2007	WAH, FC, PCR, SCR
UT to Copperas Creek 0.0 to 0.9	Tradewater	RIVER	5140205	HOPKINS	5-NS	5-NS	5-NS	3	3	1/11/2008	WAH, FC, PCR, SCR
UT to Craborchard Creek 0.0 to 1.7	Tradewater	RIVER	5140205	WEBSTER	5B-NS	5B-NS	3	3	3	1/11/2008	WAH, FC, PCR, SCR
UT to Donaldson Creek 0.0 to 1.8	Tradewater	RIVER	5140205	CALDWELL	5-PS	3	3	3	3	1/11/2008	WAH, FC, PCR, SCR
UT to Hurricane Creek 0.0 to 0.2	Tradewater	RIVER	5140205	HOPKINS	5-NS	5-NS	5-NS	3	3	1/11/2008	WAH, FC, PCR, SCR
UT to Lynn Fork 1.2 to 2.6	Tradewater	RIVER	5140205	WEBSTER	5B-NS	5B-NS	3	3	3	1/11/2008	WAH, FC, PCR, SCR
UT to Piney Creek 0.0 to 2.9	Tradewater	RIVER	5140205	CALDWELL	2-FS	3	3	3	3	1/16/2008	WAH, FC, PCR, SCR, DWS
UT to Sandlick Creek 0.0 to 1.4	Tradewater	RIVER	5140205	CHRISTIAN	2-FS	3	3	3	3	11/12/2002	WAH, FC, PCR, SCR
UT to Slover Creek 0.0 to 1.5	Tradewater	RIVER	5140205	WEBSTER	5-PS	3	3	3	3	1/16/2008	WAH, FC, PCR, SCR
UT to UT to Cypress Creek 0.0 to 0.1	Tradewater	RIVER	5140205	UNION	3	5B-NS	3	3	3	1/11/2008	WAH, FC, PCR, SCR
UT to UT to Slover Creek 0.0 to 1.2	Tradewater	RIVER	5140205	WEBSTER	5-PS	3	3	3	3	1/16/2008	WAH, FC, PCR, SCR
UT to UT to Slover Creek 0.2 to 1.5	Tradewater	RIVER	5140205	WEBSTER	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
UT to UT to Slover Creek 0.0 to 1.1	Tradewater	RIVER	5140205	WEBSTER	5B-NS	5B-NS	3	3	3	1/11/2008	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
UT to UT to Tradewater River 0.0 to 0.55	Tradewater	RIVER	5140205	HOPKINS	5B-NS	5B-NS	3	3	3	1/16/2008	WAH, FC, PCR, SCR
Ward Creek 4.9 to 10.3	Tradewater	RIVER	5140205	CALDWELL	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Weirs Creek 0.0 to 4.9	Tradewater	RIVER	5140205	HOPKINS	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Whiteside Creek 1.9 to 2.85	Tradewater	RIVER	5140205	HOPKINS	5B-NS	3	3	3	3	1/17/2008	WAH, FC, PCR, SCR
Wolf Creek 0.0 to 1.0	Tradewater	RIVER	5140205	CRITTENDEN	5-NS	3	3	3	3	3/1/2003	WAH, FC, PCR, SCR
Backs Branch 0.0 to 0.9	Tygarts Creek	RIVER	5090103	GREENUP	5-PS	3	3	3	3	11/12/2003	WAH, FC, PCR, SCR
Brushy Creek 0.0 to 3.9	Tygarts Creek	RIVER	5090103	GREENUP	2-FS	3	3	3	3	1/2/2004	WAH, FC, PCR, SCR
Buffalo Creek 0.0 to 6.3	Tygarts Creek	RIVER	5090103	CARTER	2-FS	2-FS	3	3	3	1/14/2004	WAH, FC, PCR, SCR
Buffalo Creek 6.3 to 9.6	Tygarts Creek	RIVER	5090103	CARTER	2-FS	3	3	3	3	11/25/2003	WAH, FC, PCR, SCR
Jacobs Fork 3.6 to 5.7	Tygarts Creek	RIVER	5090103	CARTER	5-PS	3	3	3	3	11/12/2003	WAH, FC, PCR, SCR
Leatherwood Branch 0.0 to 4.3	Tygarts Creek	RIVER	5090103	GREENUP	2-FS	3	3	3	3	1/21/2004	WAH, FC, PCR, SCR
McGlone Fork 0.0 to 2.5	Tygarts Creek	RIVER	5090103	CARTER	2-FS	3	3	3	3	1/24/2004	WAH, FC, PCR, SCR
Schultz Creek 1.3 to 4.7	Tygarts Creek	RIVER	5090103	GREENUP	2-FS	3	3	3	3	11/11/2003	WAH, FC, PCR, SCR
Schultz Creek 4.7 to 10.8	Tygarts Creek	RIVER	5090103	GREENUP	5-PS	3	3	3	3	2/9/2004	WAH, FC, PCR, SCR
Smith Creek 2.0 to 4.3	Tygarts Creek	RIVER	5090103	CARTER	5-PS	3	3	3	3	11/11/2003	WAH, FC, PCR, SCR
Smokey Valley Lake	Tygarts Creek	RESERVOIR	5090103	CARTER	2-FS	3	3	3	3	3/5/2003	WAH, FC, PCR, SCR
Smoky Creek 1.4 to 3.8	Tygarts Creek	RIVER	5090103	CARTER	3	3	3	3	3		WAH, FC, PCR, SCR
Soldier Fork 0.0 to 2.0	Tygarts Creek	RIVER	5090103	CARTER	3	3	3	3	3		WAH, FC, PCR, SCR
Three Prong Branch 0.0 to 5.8	Tygarts Creek	RIVER	5090103	CARTER	2-FS	3	3	3	3	1/21/2004	WAH, FC, PCR, SCR
Trough Camp 1.5 to 6.1	Tygarts Creek	RIVER	5090103	CARTER	5-PS	3	3	3	3	11/11/2003	WAH, FC, PCR, SCR
Tygarts Creek 0.0 to 45.7	Tygarts Creek	RIVER	5090103	GREENUP	2-FS	2B(5)	3	5-NS	3	1/20/2004	WAH, FC, PCR, SCR
Tygarts Creek 51.0 to 57.8	Tygarts Creek	RIVER	5090103	CARTER	2-FS	3	3	3	3	11/12/2003	WAH, FC, PCR, SCR
Tygarts Creek 65.0 to 68.6	Tygarts Creek	RIVER	5090103	GREENUP	2-FS	2-FS	3	3	3	1/16/2004	WAH, FC, PCR, SCR
Tygarts Creek 78.0 to 88.6	Tygarts Creek	RIVER	5090103	CARTER	3	3	3	2-FS	2-FS	2/9/2004	WAH, FC, PCR, SCR
White Oak Creek 0.0 to 1.1	Tygarts Creek	RIVER	5090103	GREENUP	3	3	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Adams Branch 0.0 to 1.8	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Archers Creek 0.0 to 4.4	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Bad Branch 0.0 to 3.0	Upper Cumberland	RIVER	5130101	LETCHER	2-FS	3	3	3	3	7/31/2001	WAH, FC, PCR, SCR
Bailey Creek 0.0 to 2.6	Upper Cumberland	RIVER	5130101	HARLAN	3	4A-NS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Bark Camp Creek 0.1 to 3.8	Upper Cumberland	RIVER	5130101	WHITLEY	5-PS	3	3	3	3	11/8/2006	WAH, FC, PCR, SCR
Bear Creek 0.0 to 2.8	Upper Cumberland	RIVER	5130103	CUMBERLAND	2-FS	3	3	3	3	1/26/2007	WAH, FC, PCR, SCR
Bear Creek 0.0 to 3.3	Upper Cumberland	RIVER	5130104	McCREARY	5-NS	5-NS	5-NS	2-FS	3	4/1/1998	WAH, FC, PCR, SCR
Bear Creek 0.0 to 2.7	Upper Cumberland	RIVER	6040005	PULASKI	3	3	3	3	3		WAH, FC, PCR, SCR
Beaver Creek 1.0 to 7.0	Upper Cumberland	RIVER	5130103	McCREARY	2-FS	3	3	3	3	7/31/2001	WAH, FC, PCR, SCR
Beaver Creek 16.6 to 34.5	Upper Cumberland	RIVER	5130103	WAYNE	5-PS	3	3	3	3	1/27/2007	WAH, FC, PCR, SCR
Beaver Creek 16.2 to 16.6	Upper Cumberland	RIVER	5130103	WAYNE	5-PS	3	3	3	3	11/8/2006	WAH, FC, PCR, SCR
Becks Creek 0.0 to 4.0	Upper Cumberland	RIVER	5130101	WHITLEY	5-PS	5-PS	5-PS	3	3	4/1/1998	WAH, FC, PCR, SCR
Bee Lick Creek 0.0 to 5.7	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	3	3	3	3	9/19/2000	WAH, FC, PCR, SCR, DWS
BeeLick Creek 7.5 to 10.9	Upper Cumberland	RIVER	5130103	LINCOLN	5-PS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR
Bennetts Fork of Yellow Creek Bypass 0.0 to 3.2	Upper Cumberland	RIVER	5130101	BELL	5-PS	3	3	3	3	1/26/2007	WAH, FC, PCR, SCR
Bens Fork 0.0 to 2.2	Upper Cumberland	RIVER	5130101	BELL	5-PS	3	3	3	3	1/31/2007	WAH, FC, PCR, SCR
Big Branch 0.4 to 2.0	Upper Cumberland	RIVER	5130101	McCREARY	2-FS	3	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Big Clifty Creek 1.1 to 4.8	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	3	3	3	3	1/26/2007	WAH, FC, PCR, SCR
Big Clifty Creek 0.0 to 1.1	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	3	3	3	3	1/26/2007	WAH, FC, PCR, SCR
Big Indian Creek 0.0 to 5.6	Upper Cumberland	RIVER	5130101	KNOX	5-NS	3	3	3	3	9/21/2000	WAH, FC, PCR, SCR
Big Lick Branch 1.1 to 2.6	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	3	3	3	3	12/10/2001	WAH, FC, PCR, SCR
Big Lily Creek 0.0 to 5.0	Upper Cumberland	RIVER	5130103	RUSSELL	2-FS	3	3	2-FS	3	1/3/2002	WAH, FC, PCR, SCR
Big Renox Creek 0.0 to 5.8	Upper Cumberland	RIVER	5130103	CUMBERLAND	5-PS	3	3	3	3	7/10/2000	WAH, FC, PCR, SCR
Big Willis Creek 0.0 to 4.0	Upper Cumberland	RIVER	5130103	CUMBERLAND	3	3	3	3	3		WAH, FC, PCR, SCR
Bills Branch 2.4 to 3.7	Upper Cumberland	RIVER	5130102	JACKSON	3	3	3	3	2-FS		WAH, FC, PCR, SCR
Blacksnake Branch 0.0 to 2.1	Upper Cumberland	RIVER	5130101	BELL	2-FS	3	3	3	3	12/7/2001	WAH, FC, PCR, SCR
Blake Fork 0.0 to 4.6	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	1/26/2007	WAH, FC, PCR, SCR
Board Branch 0.5 to 1.8	Upper Cumberland	RIVER	5130101	HARLAN	5-NS	5-NS	5-NS	3	3	11/30/2006	WAH, FC, PCR, SCR
Breedens Creek 0.0 to 2.8	Upper Cumberland	RIVER	5130101	HARLAN	2-FS	3	3	3	3	12/10/2001	WAH, FC, PCR, SCR
Briary Creek 0.0 to 4.4	Upper Cumberland	RIVER	5130103	PULASKI	5-PS	3	3	3	3	9/19/2000	WAH, FC, PCR, SCR
Brices Creek 0.0 to 3.2	Upper Cumberland	RIVER	5130101	KNOX	2-FS	3	3	3	3	12/10/2001	WAH, FC, PCR, SCR
Brownies Creek 9.9 to 16.7	Upper Cumberland	RIVER	5130101	BELL	2-FS	3	3	3	3	1/26/2007	WAH, FC, PCR, SCR
Brush Creek 0.0 to 3.5	Upper Cumberland	RIVER	5130101	KNOX	5-NS	3	3	3	3	12/6/2000	WAH, FC, PCR, SCR
Brush Creek 1.1 to 7.5	Upper Cumberland	RIVER	5130102	ROCKCASTLE	3	4A-NS	3	3	3	1/1/2001	WAH, FC, PCR, SCR
Brushy Creek 0.0 to 8.0	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Buck Creek 11.7 to 32.3	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	2-FS	2-FS	3	3	10/10/2006	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Buck Creek 32.3 to 40.8	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	3	3	3	3	3/25/2002	WAH, FC, PCR, SCR
Buck Creek 40.8 to 45.2	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	3	3	3	3	3/25/2002	WAH, FC, PCR, SCR
Buck Creek 45.2 to 45.6	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Buck Creek 45.6 to 53.0	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	3	3	5-PS	3	3/22/2006	WAH, FC, PCR, SCR
Buck Creek 53.0 to 58.9	Upper Cumberland	RIVER	5130103	LINCOLN	2-FS	3	3	3	3	3/25/2002	WAH, FC, PCR, SCR
Buck Creek 0.4 to 2.8	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	12/10/2001	WAH, FC, PCR, SCR
Bucks Branch 0.0 to 2.5	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	2-FS	2-FS	3	3	4/1/1998	WAH, FC, PCR, SCR
Buffalo Creek 2.6 to 3.9	Upper Cumberland	RIVER	5130101	McCREARY	2-FS	3	3	3	3	1/1/2001	WAH, FC, PCR, SCR
Bull Run 0.0 to 3.7	Upper Cumberland	RIVER	5130101	KNOX	5-PS	3	3	3	3	3/23/2006	WAH, FC, PCR, SCR
Bunches Creek 0.0 to 3.3	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Calf Pen Fork 0.0 to 3.8	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Campbell Branch 0.0 to 2.1	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	12/10/2001	WAH, FC, PCR, SCR
Cane Branch 0.0 to 2.0	Upper Cumberland	RIVER	5130103	McCREARY	4A-NS	4A-NS	4A-NS	3	3	2/14/2006	WAH, FC, PCR, SCR
Cane Creek 0.0 to 1.5	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	11/17/2001	WAH, FC, PCR, SCR
Cane Creek 0.0 to 11.9	Upper Cumberland	RIVER	5130102	LAUREL	2-FS	3	3	3	3	6/10/2005	WAH, FC, PCR, SCR
Cane Creek 0.0 to 4.4	Upper Cumberland	RIVER	5130101	WHITLEY	5-NS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR, DWS
Caney Creek 0.0 to 0.6	Upper Cumberland	RIVER	5130101	BELL	2-FS	3	3	3	3	12/10/2001	WAH, FC, PCR, SCR
Cannon Creek 0.0 to 1.8	Upper Cumberland	RIVER	5130101	BELL	5-PS	3	3	3	3	1/26/2007	WAH, FC, PCR, SCR
Cannon Creek 4.9 to 6.6	Upper Cumberland	RIVER	5130101	BELL	2-FS	3	3	3	3	11/10/2001	WAH, FC, PCR, SCR, DWS
Cannon Creek Lake	Upper Cumberland	RESERVOIR	5130101	BELL	2-FS	3	2-FS	3	2-FS	1/18/2006	WAH, FC, PCR, SCR
Capuchin Creek 0.0 to 1.3	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	1/26/2007	WAH, FC, PCR, SCR
Casey Fork of Marrowbone Creek 0.0 to 2.0	Upper Cumberland	RIVER	5130103	CUMBERLAND	2-FS	3	3	3	3	6/20/2000	WAH, FC, PCR, SCR
Catron Creek 0.0 to 8.9	Upper Cumberland	RIVER	5130101	HARLAN	2-FS	4A-NS	3	3	3	12/6/2000	CAH, FC, PCR, SCR
Chenoa Lake	Upper Cumberland	RESERVOIR	5130101	BELL	2-FS	3	4C-PS	3	2-FS	1/23/2006	CAH, FC, PCR, SCR
Clear Creek 3.4 to 7.8	Upper Cumberland	RIVER	5130102	ROCKCASTLE	2-FS	3	3	3	3	1/29/2007	WAH, FC, PCR, SCR
Clear Creek 0.8 to 3.2	Upper Cumberland	RIVER	5130101	BELL	2-FS	3	3	3	3	1/3/2002	WAH, FC, PCR, SCR, DWS
Clear Fork 0.0 to 9.1	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	2-FS	3	3	3	1/31/2007	WAH, FC, PCR, SCR
Clear Fork 17.0 to 19.4	Upper Cumberland	RIVER	5130101	WHITLEY	5-PS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Clifty Creek 0.0 to 2.7	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Clover Fork 28.2 to 28.9	Upper Cumberland	RIVER	5130101	HARLAN	5-PS	4A-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Clover Fork 28.9 to 33.8	Upper Cumberland	RIVER	5130101	HARLAN	5-NS	4A-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Clover Fork 9.2 to 15.5	Upper Cumberland	RIVER	5130101	HARLAN	5-NS	4A-NS	3	3	3	9/3/2002	WAH, FC, PCR, SCR
Clover Fork 0.0 to 9.2	Upper Cumberland	RIVER	5130101	HARLAN	2-FS	4A-NS	3	3	3	5/2/2002 - 1/31/2007	WAH, FC, PCR, SCR
Clover Fork 15.5 to 18.2	Upper Cumberland	RIVER	5130101	HARLAN	5-PS	4A-NS	3	3	3	8/8/2007	WAH, FC, PCR, SCR
Clover Fork 18.2 to 28.2	Upper Cumberland	RIVER	5130101	HARLAN	5-NS	4A-NS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Cloverlick Creek 0.0 to 5.0	Upper Cumberland	RIVER	5130101	HARLAN	5-PS	4A-NS	3	3	3	3/22/2006	WAH, FC, PCR, SCR
Coffey Branch 0.1 to 2.0	Upper Cumberland	RIVER	5130104	McCREARY	2-FS	3	3	3	3	11/19/2001	WAH, FC, PCR, SCR
Cogur Fork 0.0 to 7.9	Upper Cumberland	RIVER	5130101	McCREARY	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Coles Branch 0.0 to 2.1	Upper Cumberland	RIVER	5130101	KNOX	2-FS	3	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Colliers Creek 0.0 to 4.1	Upper Cumberland	RIVER	5130101	LETCHER	5-PS	3	3	3	3	1/31/2007	WAH, FC, PCR, SCR
Copperas Fork 0.0 to 4.23	Upper Cumberland	RIVER	5130104	McCREARY	4A-NS	4A-NS	4A-NS	3	3	2/14/2006	WAH, FC, PCR, SCR
Corbin City Reservoir	Upper Cumberland	RESERVOIR	5130101	LAUREL	5-PS	3	3	3	5-NS	1/1/2000	WAH, FC, PCR, SCR
Crab Orchard Creek 0.0 to 1.0	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Craig Creek 5.8 to 6.8	Upper Cumberland	RIVER	5130101	LAUREL	5-PS	3	3	3	3	1/29/2007	WAH, FC, PCR, SCR
Craigs Creek 6.8 to 9.0	Upper Cumberland	RIVER	5130101	LAUREL	2-FS	3	3	3	3	11/7/2006	WAH, FC, PCR, SCR
Crane Creek 1.4 to 2.0	Upper Cumberland	RIVER	5130101	HARLAN	5-PS	3	3	3	3	11/30/2006	WAH, FC, PCR, SCR
Cranks Creek 1.6 to 2.4	Upper Cumberland	RIVER	5130101	HARLAN	5-PS	3	3	3	3	11/30/2006	WAH, FC, PCR, SCR
Cranks Creek Lake	Upper Cumberland	RESERVOIR	5130101	HARLAN	2B(5)	2B(5)	2B(5)	3	3	1/18/2006	WAH, FC, PCR, SCR
Criscillis Branch 0.0 to 1.9	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	12/10/2001	WAH, FC, PCR, SCR
Crocus Creek 0.0 to 4.8	Upper Cumberland	RIVER	5130103	CUMBERLAND	2-FS	2-FS	2-FS	3	3	2/7/2007	WAH, FC, PCR, SCR
Crocus Creek 14.0 to 17.15	Upper Cumberland	RIVER	5130103	ADAIR	5-PS	3	3	3	3	7/10/2000	WAH, FC, PCR, SCR, DWS
Crocus Creek 4.9 to 14.0	Upper Cumberland	RIVER	5130103	CUMBERLAND	5-PS	5-NS	5-NS	3	3	5/2/2002	WAH, CAH, FC, PCR, SCR, DWS
Crooked Creek 5.7 to 12.2	Upper Cumberland	RIVER	5130102	ROCKCASTLE	2-FS	4A-NS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Crooked Creek 0.1 to 5.7	Upper Cumberland	RIVER	5130102	ROCKCASTLE	3	4A-PS	3	3	3	3/29/2007	WAH, FC, PCR, SCR, DWS
Cumberland River 460.2 to 460.9	Upper Cumberland	RIVER	5130103	RUSSELL	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Cumberland River 650.6 to 654.5	Upper Cumberland	RIVER	5130101	BELL	3	4A-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Cumberland River 671.9 to 682.3	Upper Cumberland	RIVER	5130101	HARLAN	5-PS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Cumberland River 385.5 to 434.4	Upper Cumberland	RIVER	5130103	RUSSELL	2-FS	2-FS	2-FS	3	2-FS	2/7/2007	WAH, FC, PCR, SCR
Cumberland River 458.8 to 460.2	Upper Cumberland	RIVER	5130103	RUSSELL	3	5B-PS	3	3	3	2/2/2007	WAH, FC, PCR, SCR
Cumberland River 554.65 to 569.4	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	5-PS	3	2-FS	2-FS	12/14/2006	WAH, FC, PCR, SCR
Cumberland River 569.4 to 575.1	Upper Cumberland	RIVER	5130101	WHITLEY	5-PS	3	3	3	3	9/8/2007	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Cumberland River 584.1 to 585.1	Upper Cumberland	RIVER	5130101	WHITLEY	3	3	3	3	2-FS	2/2/2007	WAH, FC, PCR, SCR
Cumberland River 660.1 to 666.8	Upper Cumberland	RIVER	5130101	HARLAN	5-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Cumberland River 682.3 to 683.6	Upper Cumberland	RIVER	5130101	HARLAN	3	3	3	3	3		WAH, FC, PCR, SCR
Cumberland River 683.6 to 694.2	Upper Cumberland	RIVER	5130101	HARLAN	3	4A-NS	3	3	3	1/1/2007	WAH, FC, PCR, SCR
Dale Hollow Reservoir	Upper Cumberland	RESERVOIR	5130105	CLINTON	2-FS	3	2-FS	2-FS	2-FS	12/18/2006	WAH, FC, PCR, SCR
Davis Branch 0.0 to 2.8	Upper Cumberland	RIVER	5130101	BELL	2-FS	3	3	3	3	12/10/2001	WAH, FC, PCR, SCR
Difficulty Creek 0.0 to 3.5	Upper Cumberland	RIVER	5130104	McCREARY	2-FS	3	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Dog Slaughter Creek 0.0 to 1.2	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	1/29/2007	WAH, FC, PCR, SCR
Dry Branch 0.0 to 0.4	Upper Cumberland	RIVER	5130103	PULASKI	5B-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Dry Fork 0.0 to 3.0	Upper Cumberland	RIVER	5130102	ROCKCASTLE	2-FS	3	3	3	3	8/10/2000	WAH, FC, PCR, SCR
Eagle Creek 0.0 to 6.7	Upper Cumberland	RIVER	5130101	McCREARY	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
East Fork of Lynn Camp Creek 0.0 to 4.5	Upper Cumberland	RIVER	5130101	KNOX	5-PS	3	3	3	3	9/21/2000	WAH, FC, PCR, SCR
Elk Spring Creek 0.0 to 7.8	Upper Cumberland	RIVER	5130103	WAYNE	5-NS	3	3	3	3	8/16/2000	WAH, FC, PCR, SCR
Ewing Creek 0.1 to 2.9	Upper Cumberland	RIVER	5130101	HARLAN	5-NS	3	3	3	3	11/19/2001	WAH, FC, PCR, SCR
Ferris Fork Creek 0.0 to 1.2	Upper Cumberland	RIVER	5130103	CUMBERLAND	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Ferris Fork Creek 3.0 to 6.0	Upper Cumberland	RIVER	5130103	METCALFE	2-FS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR
Fishing Creek 16.0 to 26.4	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	3	3	3	3	1/3/2002	WAH, FC, PCR, SCR
Foresters Creek 0.0 to 5.1	Upper Cumberland	RIVER	5130101	HARLAN	2-FS	3	3	3	3	1/29/2007	WAH, FC, PCR, SCR
Four Mile Run 0.7 to 2.7	Upper Cumberland	RIVER	5130101	BELL	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Fourmile Creek 1.7 to 4.8	Upper Cumberland	RIVER	5130101	BELL	2-FS	3	3	3	3	12/6/2001	WAH, FC, PCR, SCR
Franks Creek 3.2 to 4.9	Upper Cumberland	RIVER	5130101	LETCHER	2-FS	3	3	3	3	11/19/2001	WAH, FC, PCR, SCR
Fugitt Creek 0.0 to 4.7	Upper Cumberland	RIVER	5130101	HARLAN	2-FS	3	3	3	3	2/9/2007	WAH, FC, PCR, SCR
Gilmore Creek 0.0 to 5.9	Upper Cumberland	RIVER	5130103	LIN LN	5-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Goodin Creek 2.1 to 2.6	Upper Cumberland	RIVER	5130101	KNOX	5-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Greasy Creek 0.0 to 3.7	Upper Cumberland	RIVER	5130101	BELL	3	4A-PS	3	3	3	12/6/2000	WAH, FC, PCR, SCR
Hale Fork 0.0 to 2.9	Upper Cumberland	RIVER	5130101	KNOX	2-FS	3	3	3	3	12/10/2001	WAH, FC, PCR, SCR
Harris Branch 0.25 to 0.6	Upper Cumberland	RIVER	5130101	HARLAN	5-PS	3	3	3	3	11/30/2006	WAH, FC, PCR, SCR
Harrods Fork 0.0 to 5.3	Upper Cumberland	RIVER	5130103	CUMBERLAND	3	3	3	3	3		WAH, FC, PCR, SCR
Hatchell Branch 0.0 to 1.0	Upper Cumberland	RIVER	5130101	McCREARY	5-PS	3	3	3	3	11/19/2001	WAH, FC, PCR, SCR
Hawk Creek 0.0 to 6.6	Upper Cumberland	RIVER	5130102	LAUREL	2-FS	3	3	3	3	2/6/2007	WAH, FC, PCR, SCR
Hays Creek 1.3 to 2.3	Upper Cumberland	RIVER	5130105	CLINTON	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Hazel Patch Creek 0.0 to 1.8	Upper Cumberland	RIVER	5130102	LAUREL	5-PS	3	3	3	3	2/6/2007	WAH, FC, PCR, SCR
Helton Branch 0.0 to 1.0	Upper Cumberland	RIVER	5130103	McCREARY	3	3	3	3	3		WAH, FC, PCR, SCR
Hinkle Branch 0.0 to 1.8	Upper Cumberland	RIVER	5130101	KNOX	2-FS	3	3	3	3	12/10/2001	WAH, FC, PCR, SCR
Honeycut Branch 0.0 to 1.8	Upper Cumberland	RIVER	5130101	KNOX	2-FS	3	3	3	3	12/10/2001	WAH, FC, PCR, SCR
Horse Lick Creek 0.0 to 15.2	Upper Cumberland	RIVER	5130102	JACKSON	2-FS	2-FS	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Howards Creek 0.6 to 4.6	Upper Cumberland	RIVER	5130105	CLINTON	2-FS	3	3	3	3	7/31/2001	WAH, FC, PCR, SCR
Hunting Shirt Branch 0.0 to 2.8	Upper Cumberland	RIVER	5130101	KNOX	2-FS	3	3	3	3	12/10/2001	WAH, FC, PCR, SCR
Illwill Creek 8.8 to 12.2	Upper Cumberland	RIVER	5130105	CLINTON	2-FS	3	3	3	3	2/7/2007	WAH, FC, PCR, SCR
Indian Creek 0.0 to 4.2	Upper Cumberland	RIVER	5130103	PULASKI	5-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Indian Creek 0.0 to 4.5	Upper Cumberland	RIVER	5130102	JACKSON	5-PS	3	3	3	3	2/7/2007	WAH, FC, PCR, SCR
Indian Creek 2.3 to 6.7	Upper Cumberland	RIVER	5130101	McCREARY	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Jackie Branch 0.0 to 1.7	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	11/19/2001	WAH, FC, PCR, SCR
Jellico Creek 0.0 to 6.1	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	2-FS	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Jellico Creek 22.5 to 25.3	Upper Cumberland	RIVER	5130101	McCREARY	2-FS	3	3	3	3	2/7/2007	WAH, FC, PCR, SCR
Jennys Branch 0.0 to 6.0	Upper Cumberland	RIVER	5130101	McCREARY	5-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Kennedy Creek 0.0 to 3.0	Upper Cumberland	RIVER	5130104	WAYNE	2-FS	3	3	3	3	12/10/2001	WAH, FC, PCR, SCR
Kettle Creek 1.75 to 6.1	Upper Cumberland	RIVER	5130103	MONROE	2-FS	3	3	3	3	2/16/2007	WAH, FC, PCR, SCR
Kilburn Fork 0.0 to 0.9	Upper Cumberland	RIVER	5130101	McCREARY	2-FS	3	3	3	3	2/20/2007	WAH, FC, PCR, SCR
Kilburn Fork 0.9 to 6.2	Upper Cumberland	RIVER	5130101	McCREARY	5-PS	3	3	3	3	2/7/2007	WAH, FC, PCR, SCR
Lake Cumberland	Upper Cumberland	RESERVOIR	5130103	RUSSELL	2-FS	3	2-FS	5-PS	2-FS	12/12/2006	WAH, FC, PCR, SCR
Lake Linville	Upper Cumberland	RESERVOIR	5130102	ROCKCASTLE	2-FS	3	2-FS	3	2-FS	1/24/2006	WAH, FC, PCR, SCR
Laurel Branch 0.0 to 2.2	Upper Cumberland	RIVER	5130102	LAUREL	2-FS	3	3	3	3	2/7/2007	WAH, FC, PCR, SCR
Laurel Creek 0.8 to 3.65	Upper Cumberland	RIVER	5130101	McCREARY	2-FS	3	3	3	3	2/8/2007	WAH, FC, PCR, SCR
Laurel Creek 3.65 to 5.1	Upper Cumberland	RIVER	5130101	McCREARY	5-PS	3	3	3	3		WAH, FC, PCR, SCR
Laurel Creek Lake	Upper Cumberland	RESERVOIR	5130101	McCREARY	2-FS	3	2-FS	3	2-FS	3/6/2006	WAH, FC, PCR, SCR
Laurel Fork 7.4 to 9.1	Upper Cumberland	RIVER	5130101	McCREARY	5B-PS	3	3	3	3	2/8/2007	WAH, FC, PCR, SCR
Laurel Fork of Clear Fork 10.3 to 13.8	Upper Cumberland	RIVER	5130101	WHITLEY	5-NS	3	3	3	3	8/31/2000	WAH, FC, PCR, SCR
Laurel Fork of Clear Fork 16.9 to 18.9	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Laurel Fork of Clear Fork 4.25 to 10.3	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	12/11/2001	WAH, FC, PCR, SCR
Laurel Fork of Kilburn Fork 0.0 to 2.3	Upper Cumberland	RIVER	5130101	McCREARY	2-FS	3	3	3	3	8/14/2000	WAH, FC, PCR, SCR

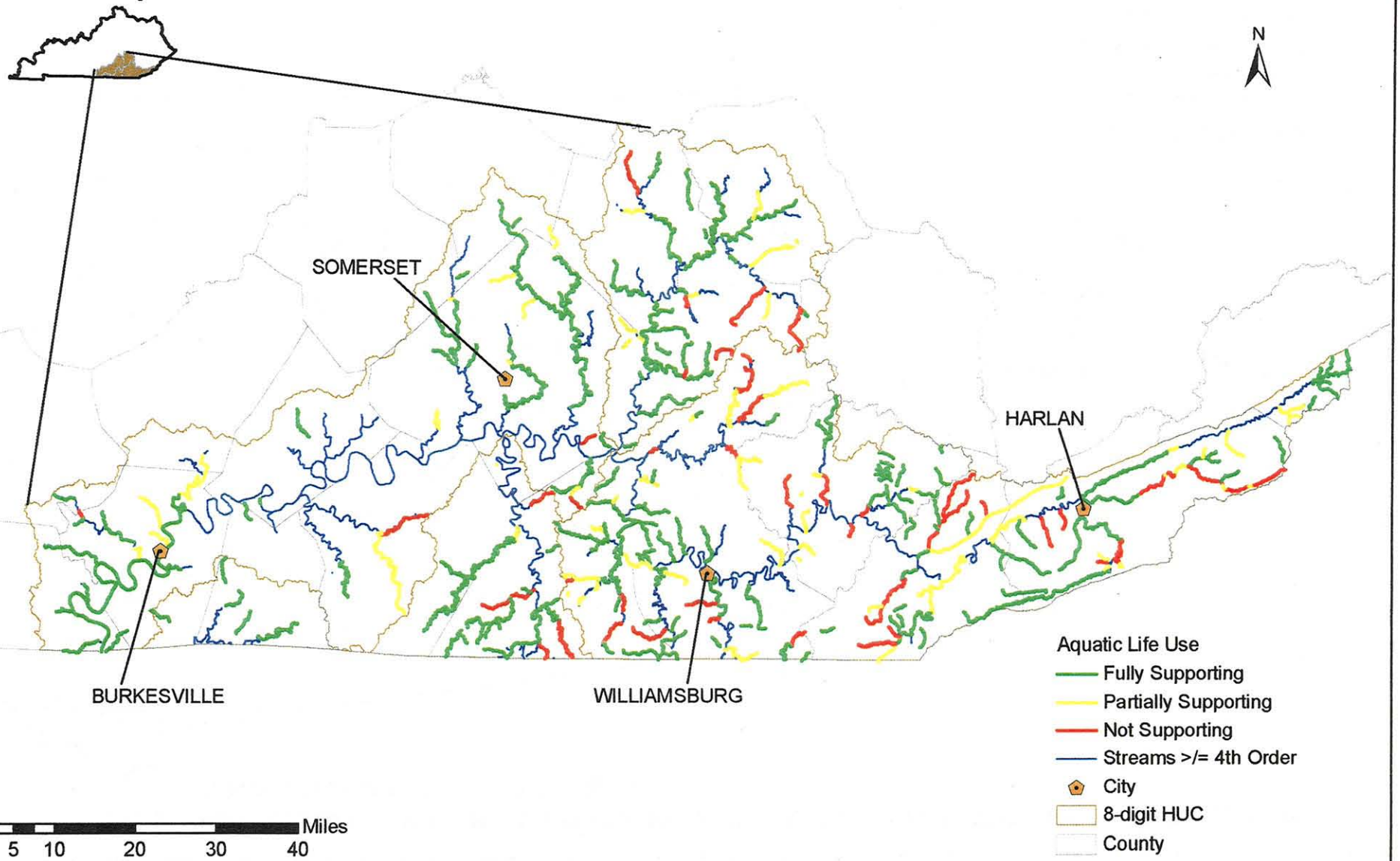
Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Laurel Fork of Middle Fork 0.0 to 5.0	Upper Cumberland	RIVER	5130102	JACKSON	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Laurel River 33.7 to 39.8	Upper Cumberland	RIVER	5130101	LAUREL	5-PS	3	3	3	3	2/8/2007	WAH, FC, PCR, SCR
Laurel River 0.9 to 2.2	Upper Cumberland	RIVER	5130101	LAUREL	5-NS	3	3	3	3	11/7/2006	WAH, FC, PCR, SCR
Laurel River 23.7 to 24.9	Upper Cumberland	RIVER	5130101	LAUREL	5-PS	3	3	3	3	11/7/2005	WAH, FC, PCR, SCR
Laurel River 26.3 to 33.7	Upper Cumberland	RIVER	5130101	LAUREL	5-NS	2-FS	3	3	3	2/8/2007	WAH, FC, PCR, SCR
Laurel River Reservoir	Upper Cumberland	RESERVOIR	5130101	WHITLEY	2-FS	3	2-FS	2-FS	2-FS	1/1/2001 - 12/4/2006	WAH, FC, PCR, SCR
Left Fork of Fugitt Creek 0.0 to 1.5	Upper Cumberland	RIVER	5130101	HARLAN	2-FS	3	3	3	3	2/9/2007	WAH, FC, PCR, SCR
Left Fork of Straight Creek 0.0 to 13.1	Upper Cumberland	RIVER	5130101	BELL	5-NS	4A-NS	5-NS	3	3	2/20/2007	WAH, FC, PCR, SCR
Lewis Creek 0.0 to 3.5	Upper Cumberland	RIVER	5130103	CUMBERLAND	5-PS	3	3	3	3	2/9/2007	WAH, FC, PCR, SCR
Lick Fork 0.0 to 1.3	Upper Cumberland	RIVER	5130101	HARLAN	5-PS	3	3	3	3	2/9/2007	WAH, FC, PCR, SCR
Lick Fork of Yellow Creek 0.0 to 2.9	Upper Cumberland	RIVER	5130101	BELL	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Line Creek 2.3 to 5.5	Upper Cumberland	RIVER	5130102	PULASKI	5-PS	3	3	3	3	3/23/2006	WAH, FC, PCR, SCR
Little Clear Creek 0.0 to 10.9	Upper Cumberland	RIVER	5130101	BELL	5-NS	2B(5)	2B(5)	3	3	1/31/2007	WAH, FC, PCR, SCR
Little Hurricane Fork of Beaver Creek 0.0 to 3.9	Upper Cumberland	RIVER	5130103	McCREARY	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Little Laurel River 12.7 to 14.8	Upper Cumberland	RIVER	5130101	LAUREL	5-NS	5-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Little Laurel River 14.8 to 23.0	Upper Cumberland	RIVER	5130101	LAUREL	3	5-NS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Little Laurel River 0.0 to 8.4	Upper Cumberland	RIVER	5130101	LAUREL	5-PS	5-PS	3	3	3	5/2/2002 - 3/22/2006	WAH, FC, PCR, SCR
Little Laurel River 8.4 to 12.7	Upper Cumberland	RIVER	5130101	LAUREL	5-NS	5-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Little Poplar Creek 0.0 to 2.8	Upper Cumberland	RIVER	5130101	KNOX	5-PS	3	3	3	3	8/23/2000	WAH, FC, PCR, SCR
Little Poplar Creek 3.1 to 4.4	Upper Cumberland	RIVER	5130101	KNOX	5-PS	3	3	3	3		WAH, FC, PCR, SCR
Little Raccoon Creek 0.0 to 7.7	Upper Cumberland	RIVER	5130102	LAUREL	5-NS	5-NS	5-NS	3	3	11/4/2007	WAH, FC, PCR, SCR
Little Rockcastle River 0.0 to 2.3	Upper Cumberland	RIVER	5130102	LAUREL	2-FS	3	3	3	3	1/3/2002	WAH, FC, PCR, SCR
Little South Fork 4.4 to 35.7	Upper Cumberland	RIVER	5130104	WAYNE	2-FS	3	3	2-FS	3	10/10/2006	WAH, FC, PCR, SCR
Little South Fork 0.0 to 4.4	Upper Cumberland	RIVER	5130104	WAYNE	5-PS	3	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Long Branch 0.0 to 2.9	Upper Cumberland	RIVER	5130101	BELL	2-FS	3	3	3	3	12/11/2001	WAH, FC, PCR, SCR
Looney Creek 0.0 to 1.4	Upper Cumberland	RIVER	5130101	HARLAN	3	4A-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Looney Creek 3.4 to 5.9	Upper Cumberland	RIVER	5130101	HARLAN	3	4A-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Looney Creek 5.9 to 9.6	Upper Cumberland	RIVER	5130101	LETCHER	2-FS	3	3	3	3		WAH, FC, PCR, SCR
Lynn Camp Creek 0.04 to 3.45	Upper Cumberland	RIVER	5130101	LAUREL	5-NS	5-NS	3	3	3	5/2/2002 - 11/7/2006	WAH, FC, PCR, SCR
Lynn Camp Creek 4.5 to 10.5	Upper Cumberland	RIVER	5130101	WHITLEY	5-PS	3	3	3	3	9/8/2000	WAH, FC, PCR, SCR
Marrowbone Creek 0.0 to 2.8	Upper Cumberland	RIVER	5130103	CUMBERLAND	5-PS	2-FS	3	3	3	2/12/2007	WAH, FC, PCR, SCR
Marrowbone Creek 13.5 to 15.2	Upper Cumberland	RIVER	5130103	CUMBERLAND	2-FS	3	3	3	3	6/20/2000	WAH, FC, PCR, SCR
Marrowbone Creek 3.8 to 8.7	Upper Cumberland	RIVER	5130103	CUMBERLAND	2-FS	3	3	3	3	2/12/2006	WAH, FC, PCR, SCR
Marsh Creek 0.0 to 13.5	Upper Cumberland	RIVER	5130101	McCREARY	2-FS	2-FS	3	3	3	2/13/2007	WAH, FC, PCR, SCR
Marsh Creek 13.5 to 16.5	Upper Cumberland	RIVER	5130101	McCREARY	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Marsh Creek 19.0 to 24.1	Upper Cumberland	RIVER	5130101	McCREARY	5-NS	3	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Martin Creek 0.0 to 1.2	Upper Cumberland	RIVER	5130102	CLAY	2-FS	3	3	3	3	8/16/2000	WAH, FC, PCR, SCR
Martins Fork 11.8 to 17.45	Upper Cumberland	RIVER	5130101	HARLAN	5-NS	3	3	3	2-FS	11/30/2006	WAH, FC, PCR, SCR
Martins Fork 0.0 to 11.8	Upper Cumberland	RIVER	5130101	HARLAN	2-FS	2-FS	2-FS	3	3	2/2/2007	WAH, FC, PCR, SCR
Martins Fork 19.4 to 28.85	Upper Cumberland	RIVER	5130101	HARLAN	2B(5)	5-NS	2B(5)	3	3	11/30/2006	WAH, FC, PCR, SCR
Martins Fork 28.85 to 38.8	Upper Cumberland	RIVER	5130101	HARLAN	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Martin's Fork Reservoir	Upper Cumberland	RESERVOIR	5130101	HARLAN	2-FS	3	2-FS	2-FS	3	1/1/2001 - 11/27/2006	WAH, FC, PCR, SCR
McCammon Branch 0.0 to 2.8	Upper Cumberland	RIVER	5130102	JACKSON	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
McFarland Creek 0.8 to 6.2	Upper Cumberland	RIVER	5130103	MONROE	2-FS	3	3	3	3	7/7/2000	WAH, FC, PCR, SCR
Meadow Creek 0.0 to 7.4	Upper Cumberland	RIVER	5130101	KNOX	5-PS	3	3	3	3	9/6/2000	WAH, FC, PCR, SCR
Meadow Fork 0.0 to 1.8	Upper Cumberland	RIVER	5130101	LETCHER	2-FS	3	3	3	3	12/3/2001	WAH, FC, PCR, SCR
Meshack Creek 0.0 to 2.8	Upper Cumberland	RIVER	5130103	MONROE	2-FS	3	3	3	3	7/6/2000	WAH, FC, PCR, SCR
Middle Fork of Rockcastle River 0.0 to 7.9	Upper Cumberland	RIVER	5130102	JACKSON	2-FS	2-FS	3	3	3	2/13/2007	WAH, FC, PCR, SCR
Middle Fork of Beaver Creek 0.0 to 2.3	Upper Cumberland	RIVER	5130103	McCREARY	5-PS	5-NS	5-NS	3	3	2/12/2007	WAH, FC, PCR, SCR
Middle Fork of Richland Creek 0.0 to 1.2	Upper Cumberland	RIVER	5130101	KNOX	5-PS	3	3	3	3	9/21/2000	WAH, FC, PCR, SCR
Mill Branch of Stinking Creek 0.0 to 2.2	Upper Cumberland	RIVER	5130101	KNOX	2-FS	3	3	3	3	8/14/2007	WAH, FC, PCR, SCR
Mill Creek of Cumberland River 0.8 to 5.6	Upper Cumberland	RIVER	5130101	McCREARY	2-FS	3	3	3	3	12/6/2001	WAH, FC, PCR, SCR
Mill Creek of Straight Creek 0.0 to 3.4	Upper Cumberland	RIVER	5130101	BELL	2-FS	3	3	3	3	12/6/2001	WAH, FC, PCR, SCR
Mitchell Creek 0.0 to 3.8	Upper Cumberland	RIVER	5130102	LAUREL	5-NS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Moore Branch 0.0 to 0.7	Upper Cumberland	RIVER	5130101	BELL	5B-PS	5B-NS	5B-NS	3	3	5/2/2002 - 2/13/2007	WAH, FC, PCR, SCR
Moore Creek 0.0 to 4.4	Upper Cumberland	RIVER	5130101	KNOX	2-FS	3	3	3	3	12/11/2001	WAH, FC, PCR, SCR
Mud Camp Creek 0.0 to 8.8	Upper Cumberland	RIVER	5130103	CUMBERLAND	2-FS	3	3	3	3		WAH, FC, PCR, SCR
Mud Creek of Clear Fork 0.0 to 5.2	Upper Cumberland	RIVER	5130101	WHITLEY	5-PS	3	3	3	3	8/30/2000	WAH, FC, PCR, SCR
Mud Lick of Stinking Creek 0.0 to 2.3	Upper Cumberland	RIVER	5130101	KNOX	2-FS	3	3	3	3	12/6/2001	WAH, FC, PCR, SCR
Ned Branch 0.5 to 1.9	Upper Cumberland	RIVER	5130102	LAUREL	2-FS	3	3	3	3	12/6/2001	WAH, FC, PCR, SCR
North Fork of Dogslaughter Creek 0.0 to 0.7	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	7/31/2001	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Otter Creek 14.0 to 22.1	Upper Cumberland	RIVER	5130103	WAYNE	2-FS	3	3	3	3	2/13/2007	WAH, FC, PCR, SCR
Patterson Creek 0.0 to 5.3	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	9/6/2000	WAH, FC, PCR, SCR
Patterson Creek 5.3 to 9.3	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	12/11/2001	WAH, FC, PCR, SCR
Peter Branch 0.0 to 1.8	Upper Cumberland	RIVER	5130102	JACKSON	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Pilot Creek 0.7 to 2.5	Upper Cumberland	RIVER	5130103	LINCOLN	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Pine Creek 2.5 to 5.3	Upper Cumberland	RIVER	5130102	LAUREL	2-FS	3	3	3	3	2/13/2007	WAH, FC, PCR, SCR
Pitman Creek 6.15 to 23.4	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	2-FS	3	3	3	2/14/2007	WAH, FC, PCR, SCR
Pitman Creek 23.4 to 24.4	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Pitman Creek 4.8 to 5.95	Upper Cumberland	RIVER	5130103	PULASKI	2B(5)	5-PS	3	3	3	11/7/2006	WAH, FC, PCR, SCR
Pointer Creek 0.2 to 3.9	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	3	3	3	3	9/20/2000	WAH, FC, PCR, SCR
Pond Creek 0.0 to 6.3	Upper Cumberland	RIVER	5130102	JACKSON	5-PS	3	3	3	3	2/14/2007	WAH, FC, PCR, SCR
Poor Fork of Cumberland River 14.9 to 16.3	Upper Cumberland	RIVER	5130101	HARLAN	5-PS	4A-NS	3	2-FS	3	2/14/2007	WAH, FC, PCR, SCR
Poor Fork of Cumberland River 41.4 to 51.7	Upper Cumberland	RIVER	5130101	LETCHER	2-FS	3	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Poor Fork of Cumberland River 0.0 to 14.9	Upper Cumberland	RIVER	5130101	HARLAN	2-FS	2-FS	3	2-FS	2-FS	2/14/2007	WAH, FC, PCR, SCR
Poor Fork of Cumberland River 16.3 to 31.8	Upper Cumberland	RIVER	5130101	HARLAN	3	4A-NS	3	2-FS	3	2/14/2007	WAH, FC, PCR, SCR
Powder Mill Creek 0.0 to 4.9	Upper Cumberland	RIVER	5130102	LAUREL	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Presley House Branch 0.0 to 1.5	Upper Cumberland	RIVER	5130101	LETCHER	2-FS	3	3	3	3	10/10/2007	WAH, FC, PCR, SCR
Puckett Creek 0.0 to 9.9	Upper Cumberland	RIVER	5130101	BELL	2-FS	4A-NS	3	3	3	8/15/2006	WAH, FC, PCR, SCR
Puncheoncamp Branch 0.0 to 1.8	Upper Cumberland	RIVER	5130104	McCREARY	2-FS	3	3	3	3	11/19/2001	WAH, FC, PCR, SCR
Raccoon Creek 0.0 to 2.7	Upper Cumberland	RIVER	5130102	LAUREL	5-PS	3	3	3	3	8/15/2000	WAH, FC, PCR, SCR
Raleigh Fork 0.0 to 1.1	Upper Cumberland	RIVER	5130101	LETCHER	5-PS	3	3	3	3		WAH, FC, PCR, SCR
Renfro Creek 0.0 to 3.0	Upper Cumberland	RIVER	5130102	ROCKCASTLE	5-PS	3	3	3	3	8/9/2000	WAH, FC, PCR, SCR
Richland Creek 11.6 to 21.5	Upper Cumberland	RIVER	5130101	KNOX	2-FS	4A-NS	3	3	3	8/15/2007	WAH, FC, PCR, SCR
Richland Creek 0.0 to 6.3	Upper Cumberland	RIVER	5130101	KNOX	5-NS	2-FS	3	3	3	2/15/2007	WAH, FC, PCR, SCR
Roaring Fork 0.0 to 3.6	Upper Cumberland	RIVER	5130101	KNOX	2-FS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR
Roaring Paunch Creek 0.0 to 7.8	Upper Cumberland	RIVER	5130104	McCREARY	2-FS	2-FS	2-FS	3	3	2/14/2007	WAH, FC, PCR, SCR
Roaring Paunch Creek 7.8 to 15.6	Upper Cumberland	RIVER	5130101	McCREARY	5-NS	5-NS	5-NS	3	3	2/14/2007	WAH, FC, PCR, SCR
Robinson Creek 6.7 to 9.6	Upper Cumberland	RIVER	5130101	LAUREL	2-FS	3	3	3	3	1/3/2002	WAH, FC, PCR, SCR
Rock Creek 0.0 to 4.3	Upper Cumberland	RIVER	5130104	McCREARY	5-NS	2-FS	2-FS	3	3	2/14/2006	WAH, FC, PCR, SCR
Rock Creek 0.0 to 5.8	Upper Cumberland	RIVER	5130101	McCREARY	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Rock Creek 4.3 to 15.5	Upper Cumberland	RIVER	5130104	McCREARY	2-FS	3	3	3	3	2/15/2007	WAH, FC, PCR, SCR
Rock Creek 16.5 to 21.5	Upper Cumberland	RIVER	5130104	McCREARY	2-FS	3	3	5-PS	3	1/1/2007	WAH, FC, PCR, SCR
Rock Lick Creek 0.0 to 8.8	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	3	3	3	3	9/20/2000	WAH, FC, PCR, SCR
Rockcastle River 40.4 to 48.1	Upper Cumberland	RIVER	5130102	ROCKCASTLE	2-FS	3	3	3	3	1/3/2002	WAH, FC, PCR, SCR
Rockcastle River 12.3 to 27.2	Upper Cumberland	RIVER	5130102	LAUREL	2-FS	2-FS	3	3	3	12/6/2000 - 12/18/2006	WAH, FC, PCR, SCR
Ross Branch 0.0 to 1.5	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	12/12/2001	WAH, FC, PCR, SCR
Roundstone Creek 0.0 to 10.9	Upper Cumberland	RIVER	5130102	ROCKCASTLE	2-FS	5-PS	3	3	3	2/15/2007	WAH, FC, PCR, SCR
Roundstone Creek 17.1 to 23.9	Upper Cumberland	RIVER	5130102	ROCKCASTLE	5-NS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR
Ryans Creek 0.0 to 5.3	Upper Cumberland	RIVER	5130101	McCREARY	5-NS	4A-NS	4A-NS	3	3	2/14/2006	WAH, FC, PCR, SCR, DWS
Salt Lick Creek 1.1 to 3.6	Upper Cumberland	RIVER	5130103	RUSSELL	2-FS	3	3	3	3	3/22/2007	WAH, FC, PCR, SCR
Sam Branch 0.0 to 0.5	Upper Cumberland	RIVER	5130103	PULASKI	5-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Sanders Creek 0.0 to 5.3	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	12/6/2001	WAH, FC, PCR, SCR
Shillalah Creek 0.0 to 5.5	Upper Cumberland	RIVER	5130101	BELL	2-FS	3	3	3	3	7/5/2001	WAH, FC, PCR, SCR
Shut-in Branch 0.0 to 1.1	Upper Cumberland	RIVER	5130101	McCREARY	2-FS	3	3	3	3	12/6/2001	WAH, FC, PCR, SCR
Sims Fork 0.0 to 5.2	Upper Cumberland	RIVER	5130101	BELL	5-NS	3	3	3	3	12/6/2001	WAH, FC, PCR, SCR
Sinking Creek 0.0 to 1.9	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Sinking Creek 0.0 to 10.0	Upper Cumberland	RIVER	5130102	LAUREL	2-FS	3	3	3	3	10/10/2006	CAH, FC, PCR, SCR
Sinking Creek 10.0 to 13.3	Upper Cumberland	RIVER	5130102	LAUREL	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Sinking Creek 13.3 to 16.3	Upper Cumberland	RIVER	5130102	LAUREL	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Skegg Creek 0.0 to 3.3	Upper Cumberland	RIVER	5130102	ROCKCASTLE	5-PS	3	3	3	3	2/15/2001	WAH, FC, PCR, SCR
Skegg Creek 3.3 to 11.1	Upper Cumberland	RIVER	5130102	ROCKCASTLE	2-FS	3	3	3	3	8/21/2007	WAH, FC, PCR, SCR
Smith Creek 0.0 to 3.3	Upper Cumberland	RIVER	5130101	LETCHER	2-FS	3	3	3	3	12/6/2001	WAH, FC, PCR, SCR
South Fork Cumberland River 43.0 to 48.7	Upper Cumberland	RIVER	5130104	McCREARY	2-FS	2-FS	3	2-FS	3	10/10/2006	WAH, FC, PCR, SCR
South Fork Cumberland River 48.7 to 54.0	Upper Cumberland	RIVER	5130104	McCREARY	2-FS	3	3	3	3	1/3/2002	WAH, FC, PCR, SCR
South Fork of Colliers Creek 0.0 to 1.9	Upper Cumberland	RIVER	5130101	LETCHER	5-PS	3	3	3	3	1/3/2007	WAH, FC, PCR, SCR
South Fork of Dog Slaughter Creek 0.0 to 4.6	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	7/5/2001	WAH, FC, PCR, SCR
South Fork of Rockcastle River 21.2 to 29.1	Upper Cumberland	RIVER	5130102	LAUREL	5-NS	3	3	3	3	8/21/2007	CAH, FC, PCR, SCR
South Fork of Rockcastle River 4.3 to 5.8	Upper Cumberland	RIVER	5130102	JACKSON	2-FS	2-FS	3	3	3	10/10/2006	WAH, FC, PCR, SCR
Spring Creek 1.3 to 3.8	Upper Cumberland	RIVER	5130105	CLINTON	2-FS	3	3	3	3	2/16/2007	WAH, FC, PCR, SCR
Spring Creek 3.8 to 7.4	Upper Cumberland	RIVER	5130105	CLINTON	2-FS	3	3	3	3	7/5/2001	WAH, FC, PCR, SCR
Stevenson Branch 0.0 to 1.9	Upper Cumberland	RIVER	5130101	BELL	5-NS	3	3	3	3	12/4/2007	WAH, FC, PCR, SCR

Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	WAH/CAH	PCR	SCR	Fish Consumption	DWS	Assess Date	Designated Uses
Stinking Creek 0.0 to 2.1	Upper Cumberland	RIVER	5130101	KNOX	5-NS	5-NS	5-NS	3	3	1/3/2001	WAH, FC, PCR, SCR
Stinking Creek 11.3 to 12.4	Upper Cumberland	RIVER	5130101	KNOX	5-PS	3	3	3	3	6/14/2005	WAH, FC, PCR, SCR
Stoney Fork 0.0 to 2.3	Upper Cumberland	RIVER	5130101	BELL	5-NS	3	3	3	3	12/6/2000	WAH, FC, PCR, SCR
Stony Fork 0.0 to 5.3	Upper Cumberland	RIVER	5130101	BELL	5-NS	3	3	3	3	12/6/2000	WAH, FC, PCR, SCR
Straight Creek 0.0 to 1.7	Upper Cumberland	RIVER	5130101	BELL	2B(5)	4A-NS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Straight Creek 1.7 to 23.3	Upper Cumberland	RIVER	5130101	BELL	5-PS	2-FS	3	3	3	2/16/2007	WAH, FC, PCR, SCR
Sugar Camp Branch 0.0 to 1.4	Upper Cumberland	RIVER	5130102	PULASKI	5-NS	5-NS	5-NS	3	3	3/22/2006	WAH, FC, PCR, SCR
Sulphur Creek 1.7 to 5.1	Upper Cumberland	RIVER	5130105	CLINTON	2-FS	3	3	3	3	7/5/2001	WAH, FC, PCR, SCR
Sulphur Creek 0.5 to 2.8	Upper Cumberland	RIVER	5130103	MONROE	2-FS	3	3	3	3		WAH, FC, PCR, SCR
Sulphur Creek 5.2 to 8.1	Upper Cumberland	RIVER	5130105	CUMBERLAND	2-FS	3	3	3	3	3/22/2006	WAH, FC, PCR, SCR
Trace Branch 0.0 to 3.0	Upper Cumberland	RIVER	5130101	KNOX	2-FS	3	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Trammel Fork of Marsh Creek 0.0 to 1.9	Upper Cumberland	RIVER	5130101	McCREARY	2-FS	3	3	3	3	12/12/2001	WAH, FC, PCR, SCR, DWS
Turkey Creek 0.0 to 1.2	Upper Cumberland	RIVER	5130101	KNOX	2-FS	3	3	3	3	12/7/2001	WAH, FC, PCR, SCR, DWS
Tyner Lake	Upper Cumberland	RESERVOIR	5130102	JACKSON	2-FS	3	2-FS	3	2-FS	1/24/2006	WAH, FC, PCR, SCR
UT to Acorn Fork 0.0 to 1.0	Upper Cumberland	RIVER	5130101	KNOX	2-FS	3	3	3	3	12/12/2001	WAH, FC, PCR, SCR
UT to Big Clifty Creek 0.0 to 0.5	Upper Cumberland	RIVER	5130103	PULASKI	3	5B-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
UT to Big Creek 0.0 to 1.8	Upper Cumberland	RIVER	5130104	McCREARY	2-FS	3	3	3	3	3/26/2006	WAH, FC, PCR, SCR
UT to Bridge Fork 0.0 to 0.1	Upper Cumberland	RIVER	5130101	McCREARY	5B-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
UT to Caney Fork 0.0 to 0.6	Upper Cumberland	RIVER	5130103	RUSSELL	3	3	3	3	3		WAH, FC, PCR, SCR
UT to Helton Branch 0.0 to 0.4	Upper Cumberland	RIVER	5130101	KNOX	5-PS	3	3	3	3	3/23/2006	WAH, FC, PCR, SCR
UT to Jennys Branch 0.0 to 1.3	Upper Cumberland	RIVER	5130101	McCREARY	5-NS	3	3	3	3	11/19/2001	WAH, FC, PCR, SCR
UT to Little Laurel River 0.0 to 1.4	Upper Cumberland	RIVER	5130101	LAUREL	5-NS	3	3	3	3	8/14/2007	WAH, FC, PCR, SCR, DWS
UT to Pond Creek 0.0 to 0.2	Upper Cumberland	RIVER	5130102	JACKSON	5B-PS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
UT to Pond Creek 0.0 to 0.2	Upper Cumberland	RIVER	5130102	JACKSON	5B-PS	5B-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
UT to Rock Creek 0.0 to 1.2	Upper Cumberland	RIVER	5130104	McCREARY	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
UT to Rock Creek 0.0 to 1.3	Upper Cumberland	RIVER	5130104	McCREARY	2-FS	3	3	3	3	11/19/2001	WAH, FC, PCR, SCR
UT to Rock Creek 0.0 to 1.9	Upper Cumberland	RIVER	5130104	McCREARY	2-FS	3	3	3	3	11/17/2001	WAH, FC, PCR, SCR
Wallins Creek 0.0 to 4.2	Upper Cumberland	RIVER	5130101	HARLAN	5-NS	3	3	3	3	2/19/2007	WAH, FC, PCR, SCR
Watts Branch 0.0 to 2.6	Upper Cumberland	RIVER	5130104	McCREARY	2-FS	3	3	3	3	11/19/2001	WAH, FC, PCR, SCR
Watts Creek 0.0 to 1.3	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	2/15/2002	WAH, FC, PCR, SCR
Watts Creek 2.0 to 4.4	Upper Cumberland	RIVER	5130101	HARLAN	2-FS	3	3	3	3	12/4/2001	WAH, FC, PCR, SCR
White Oak Creek 0.0 to 1.0	Upper Cumberland	RIVER	5130102	LAUREL	5-NS	3	3	3	3	6/1/2002	WAH, FC, PCR, SCR
White Oak Creek 1.0 to 5.7	Upper Cumberland	RIVER	5130102	LAUREL	2-FS	3	3	3	3	8/21/2007	WAH, FC, PCR, SCR
White Oak Creek 1.1 to 2.2	Upper Cumberland	RIVER	5130102	ROCKCASTLE	2-FS	3	3	3	3	5/2/2002	WAH, FC, PCR, SCR
White Oak Creek 0.0 to 4.2	Upper Cumberland	RIVER	5130104	McCREARY	5-NS	2-FS	2-FS	3	3	2/9/2006	CAH, FC, PCR, SCR
White Oak Creek 7.1 to 11.2	Upper Cumberland	RIVER	5130103	PULASKI	5-PS	3	3	3	3	2/19/2007	WAH, CAH, FC, PCR, SCR, DWS
Whitley Branch 0.0 to 1.0	Upper Cumberland	RIVER	5130101	LAUREL	5B-NS	5B-PS	3	3	3	5/2/2002	WAH, FC, PCR, SCR
Whitley Branch 1.1 to 2.6	Upper Cumberland	RIVER	5130101	LAUREL	3	5-NS	3	3	3	4/1/1998	WAH, FC, PCR, SCR
Wildcat Branch 0.0 to 2.1	Upper Cumberland	RIVER	5130103	PULASKI	4A-NS	4A-NS	4A-NS	3	3	2/14/2006	WAH, FC, PCR, SCR
Wolf Creek 0.0 to 1.8	Upper Cumberland	RIVER	5130101	WHITLEY	5-NS	3	3	3	3	8/22/2000	WAH, FC, PCR, SCR
Wood Creek 0.0 to 1.95	Upper Cumberland	RIVER	5130102	LAUREL	5-NS	3	3	3	3	2/19/2007	WAH, FC, PCR, SCR
Wood Creek Lake	Upper Cumberland	RESERVOIR	5130102	LAUREL	2-FS	3	2-FS	3	2-FS	1/24/2006	WAH, FC, PCR, SCR
Yellow Creek 0.0 to 6.7	Upper Cumberland	RIVER	5130101	BELL	5-PS	2-FS	3	3	3	8/16/2007	WAH, FC, PCR, SCR
Yellow Creek 6.7 to 15.9	Upper Cumberland	RIVER	5130101	BELL	2-FS	3	3	3	3	8/16/2007	WAH, FC, PCR, SCR
Yellow Creek ByPass 0.0 to 3.2	Upper Cumberland	RIVER	5130101	BELL	2-FS	3	3	3	3	3/29/2007	WAH, FC, PCR, SCR
Yocum Creek 0.0 to 6.5	Upper Cumberland	RIVER	5130101	HARLAN	3	4A-NS	3	3	3	8/16/2007	WAH, FC, PCR, SCR
Youngs Creek 0.0 to 5.4	Upper Cumberland	RIVER	5130101	WHITLEY	2-FS	3	3	3	3	8/21/2000	WAH, FC, PCR, SCR

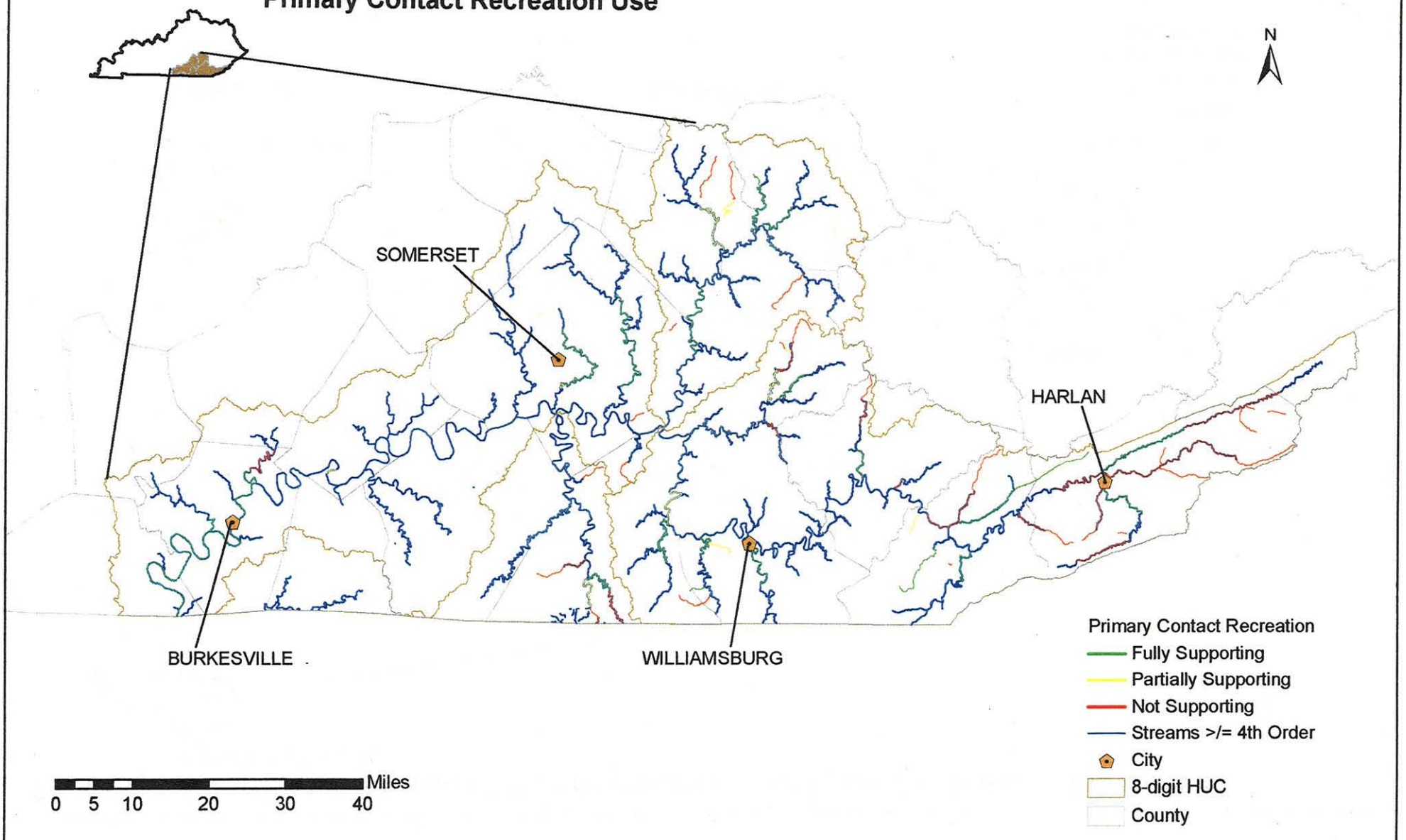
Appendix B. Reach Indexing Maps of Assessed Streams in the Upper Cumberland – 4-Rivers BMU and Green – Tradewater Rivers BMU

Figure B-1: Reach indexing results of streams assessed in the Upper Cumberland River basin for Aquatic Life Use



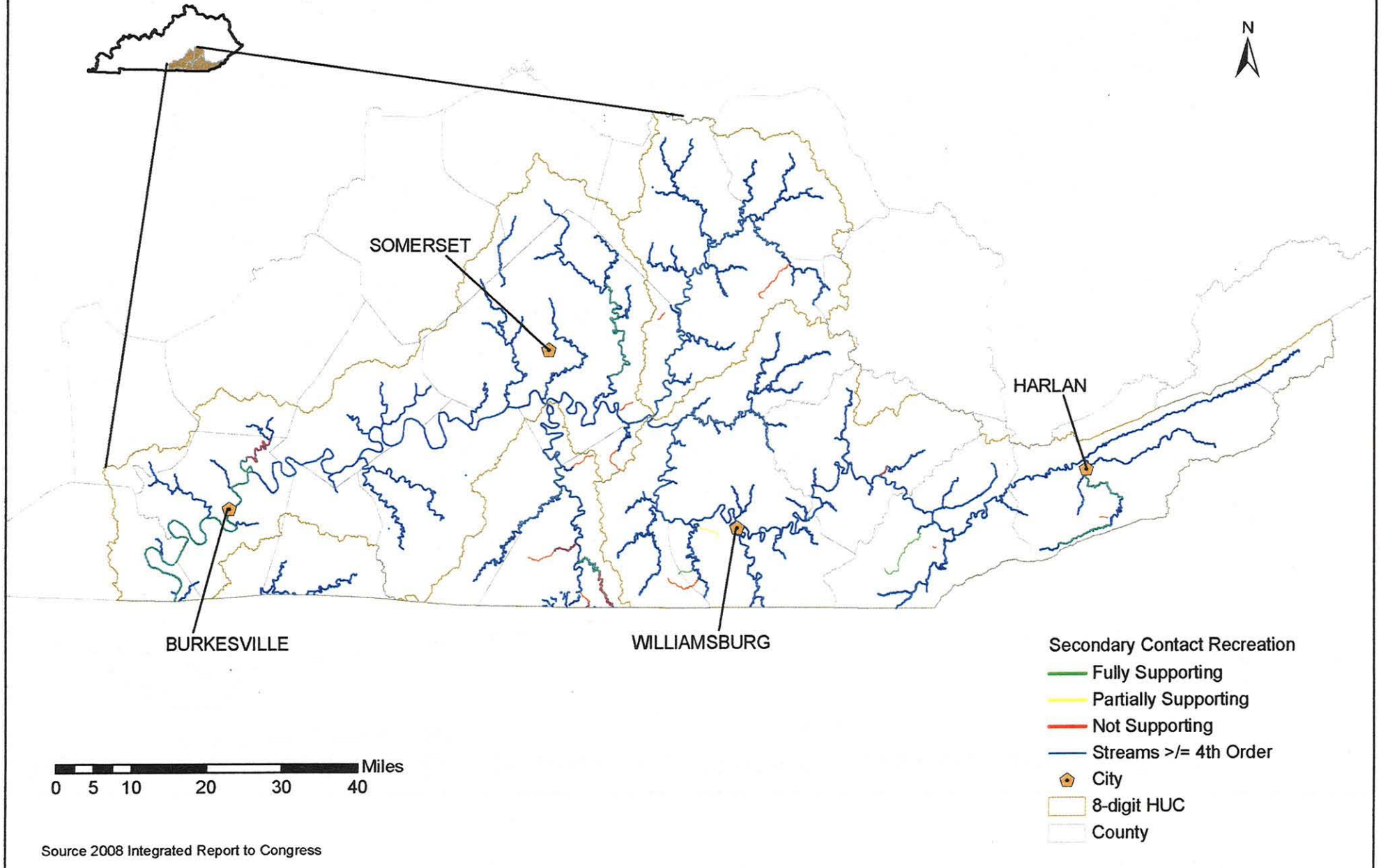
Source 2008 Integrated Report to Congress

Figure B-2: Reach indexing results of streams assessed in the Upper Cumberland River basin for Primary Contact Recreation Use



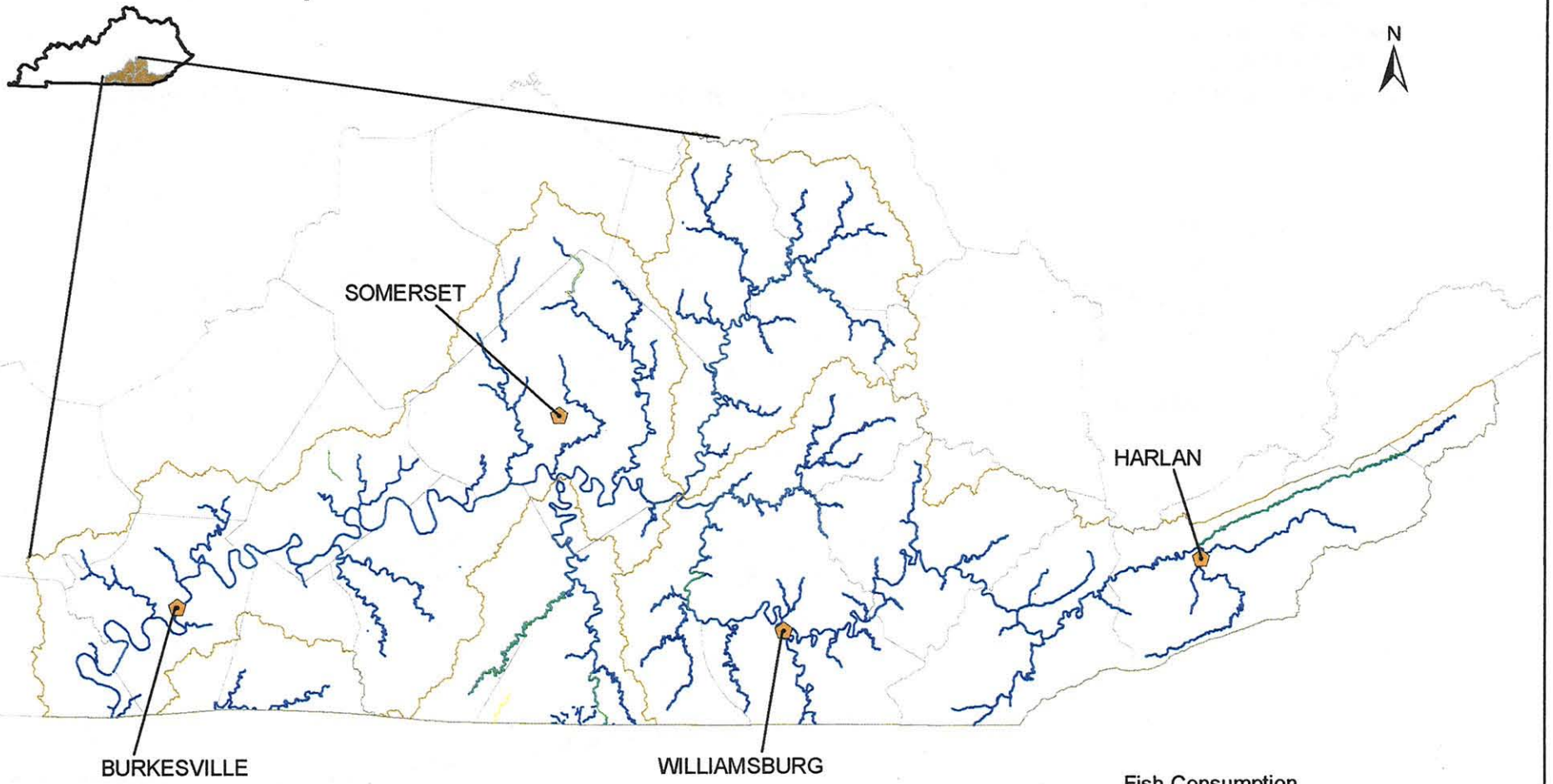
Source 2008 Integrated Report to Congress

Figure B-3: Reach indexing results of streams assessed in the Upper Cumberland River basin for Secondary Contact Recreation Use



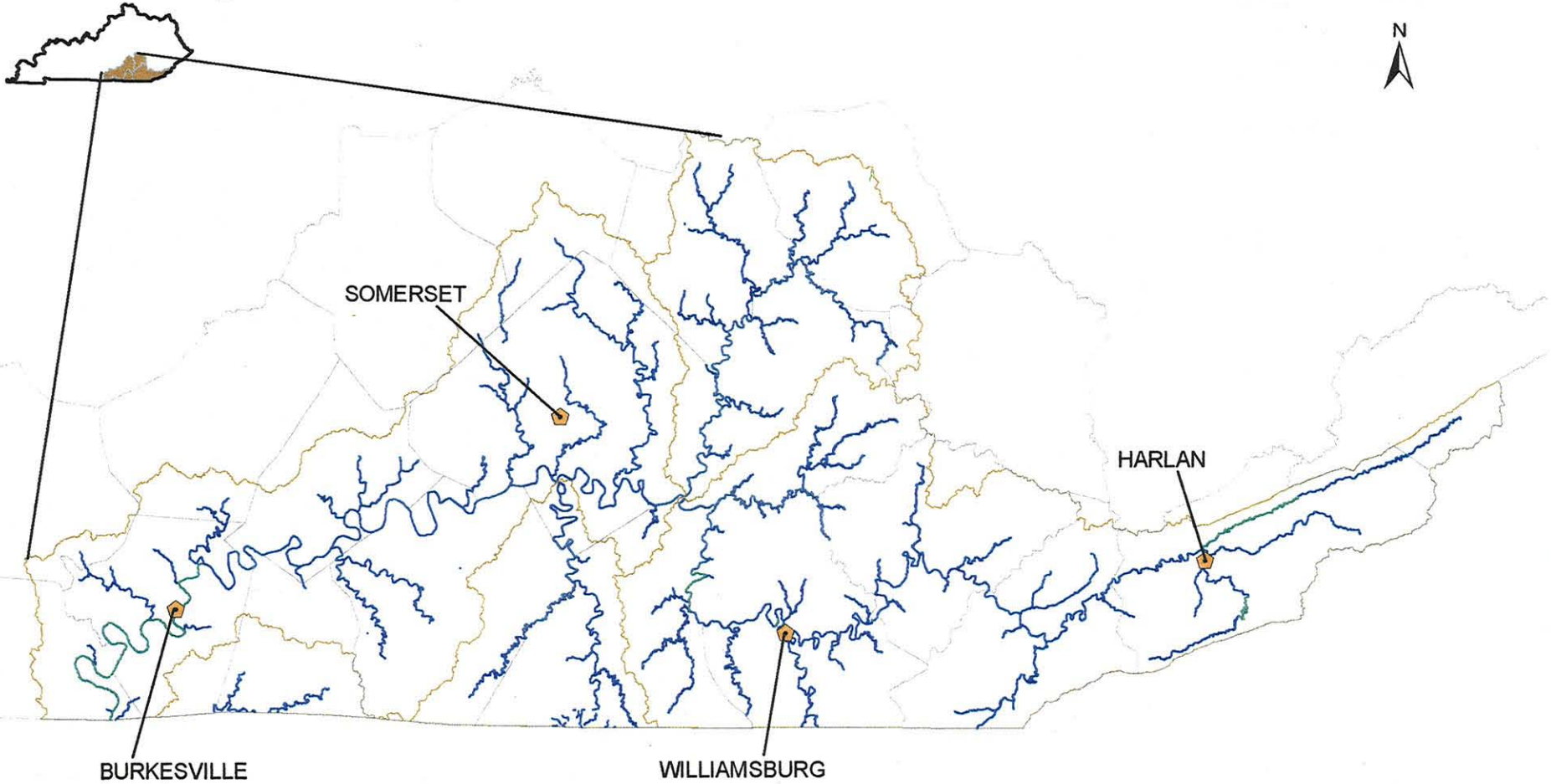
Source 2008 Integrated Report to Congress

Figure B-4: Reach indexing results of streams assessed in the Upper Cumberland River basin for Fish Consumption Use



Source 2008 Integrated Report to Congress

Figure B-5: Reach indexing results of streams assessed in the Upper Cumberland River basin for Drinking Water Source Use

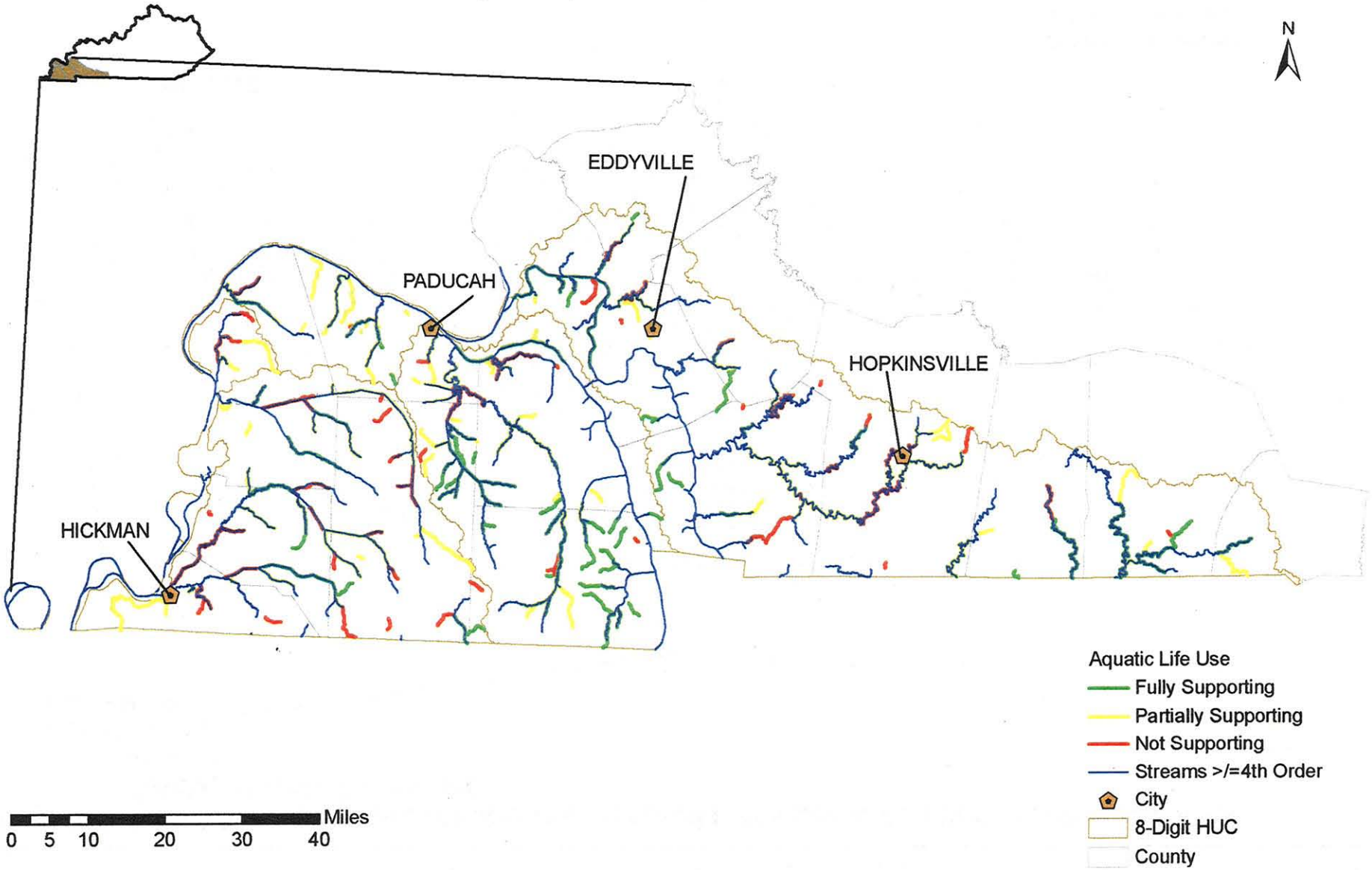


Drinking Water Source
- Fully Supporting
- Streams >/= 4th Order
- City
- 8-digit HUC
- County

0 5 10 20 30 40 Miles

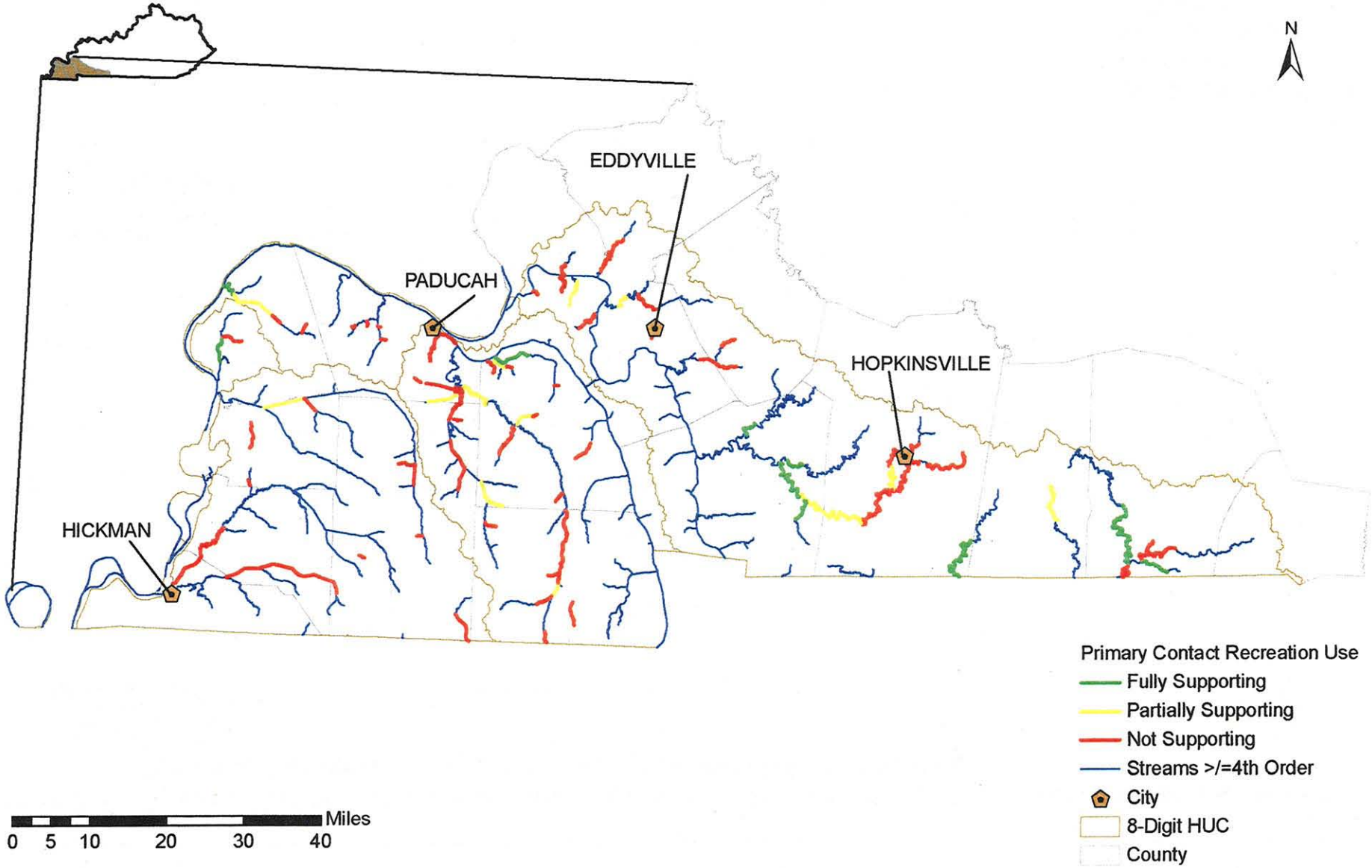
Source 2008 Integrated Report to Congress

Figure B-6: Reach indexing results of streams assessed in the 4-Rivers basin (lower Cumberland, Mississippi, Ohio and Tennessee rivers) for Aquatic Life Use



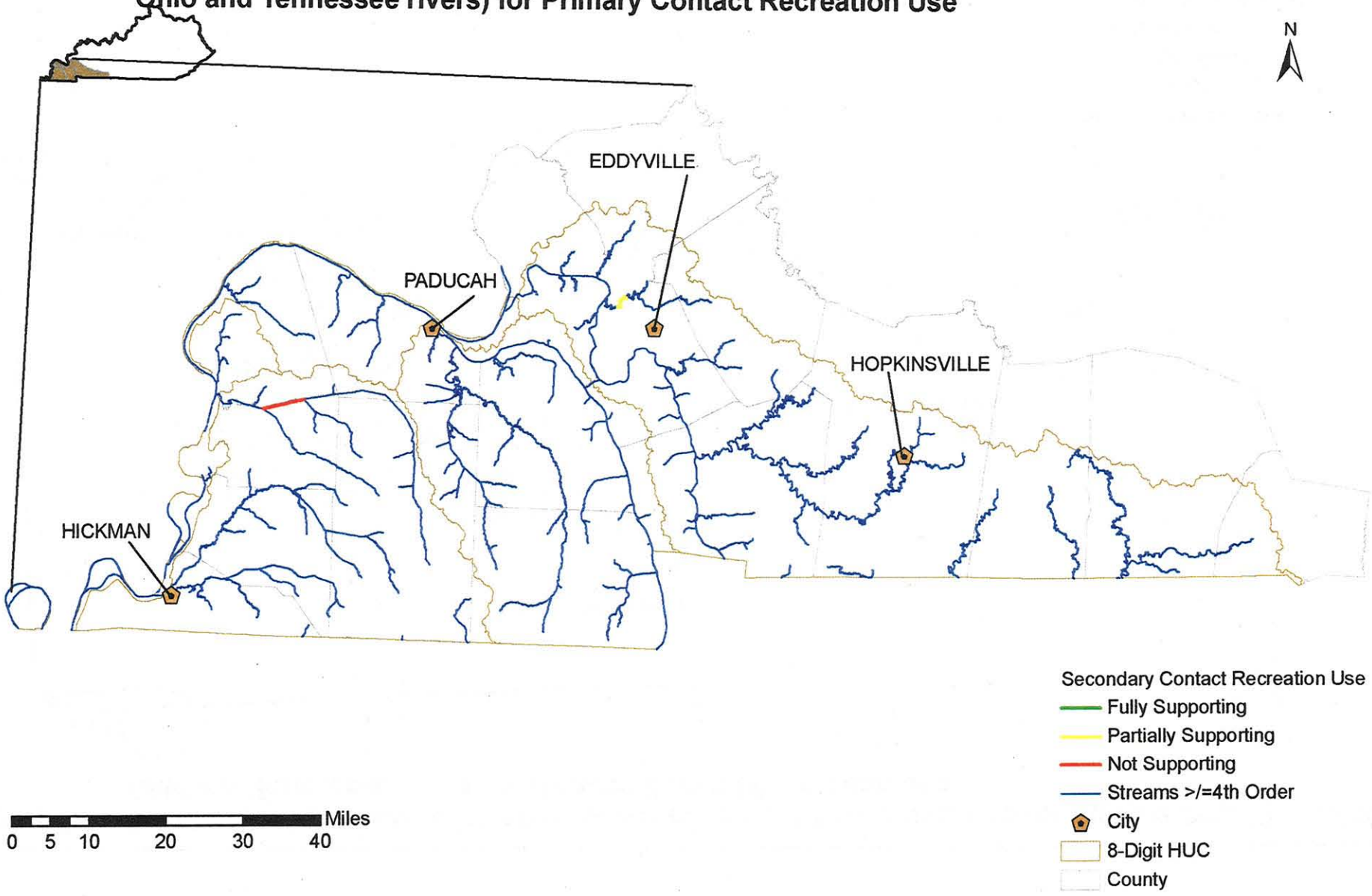
Source 2008 Integrated Report to Congress

Figure B-7: Reach indexing results of streams assessed in the 4-Rivers basin (lower Cumberland, Mississippi, Ohio and Tennessee rivers) for Primary Contact Recreation Use



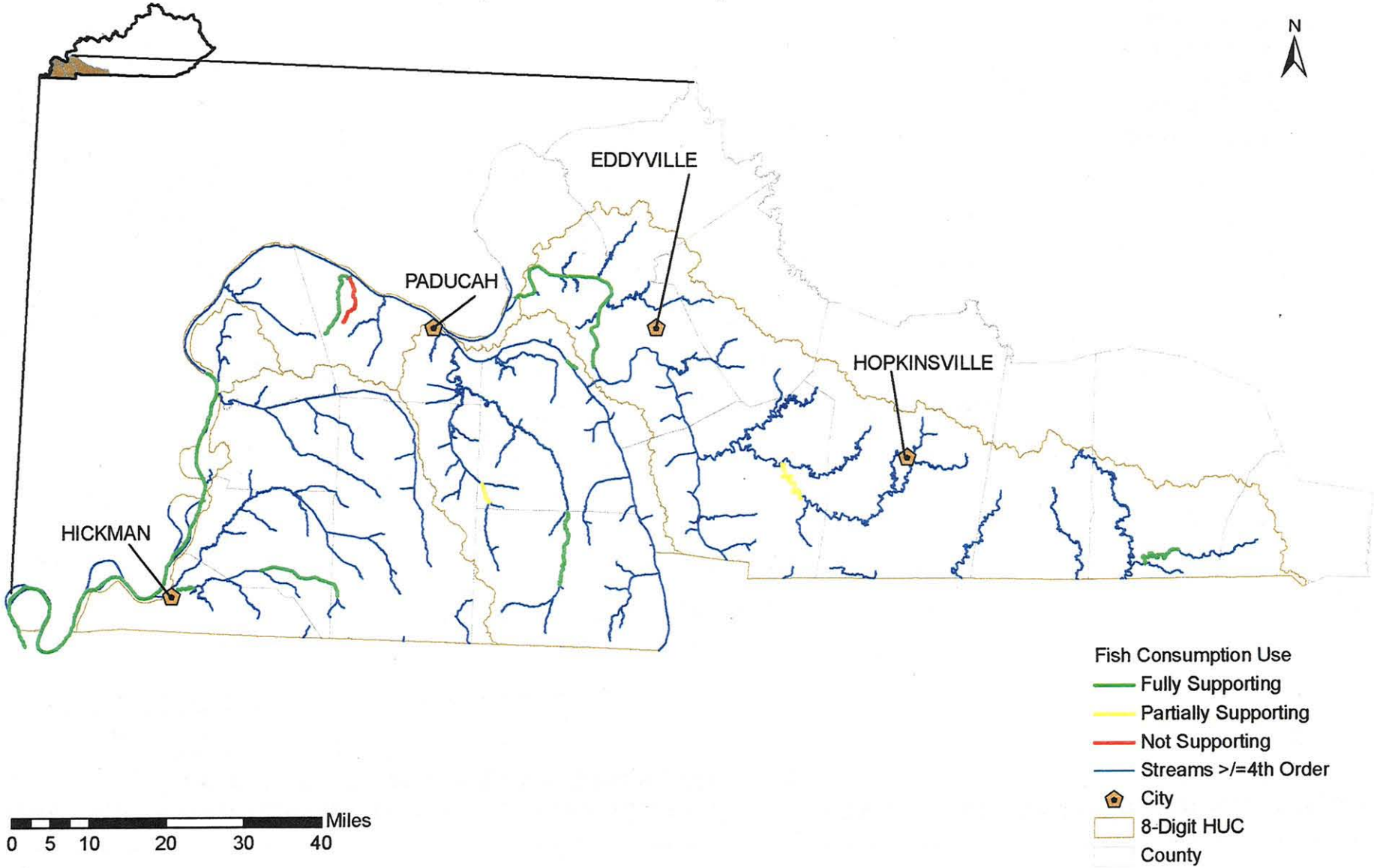
Source 2008 Integrated Report to Congress

Figure B-8: Reach indexing results of streams assessed in the 4-Rivers basin (lower Cumberland, Mississippi, Ohio and Tennessee rivers) for Primary Contact Recreation Use



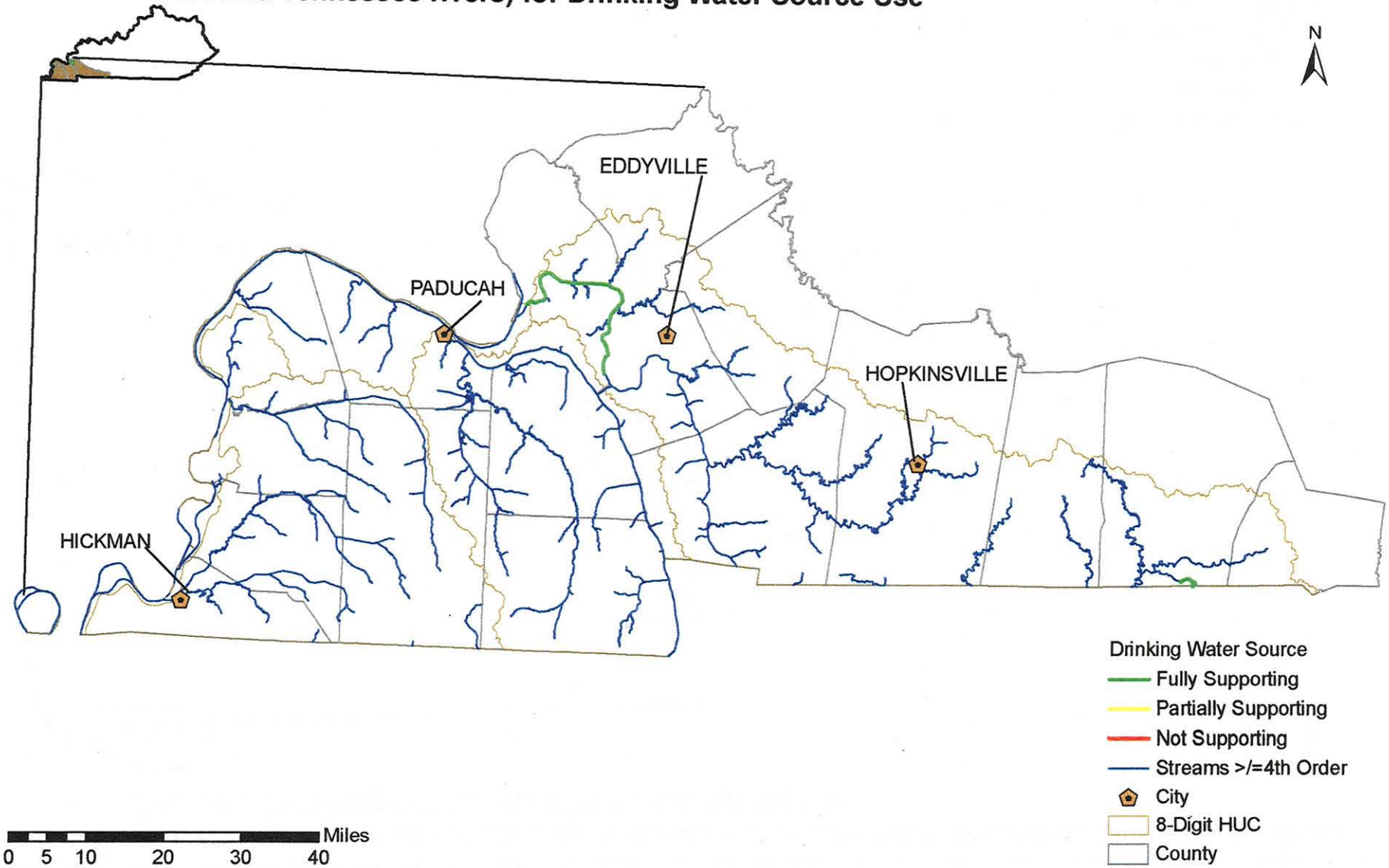
Source 2008 Integrated Report to Congress

Figure B-9: Reach indexing results of streams assessed in the 4-Rivers basin (lower Cumberland, Mississippi, Ohio and Tennessee rivers) for Fish Consumption Use



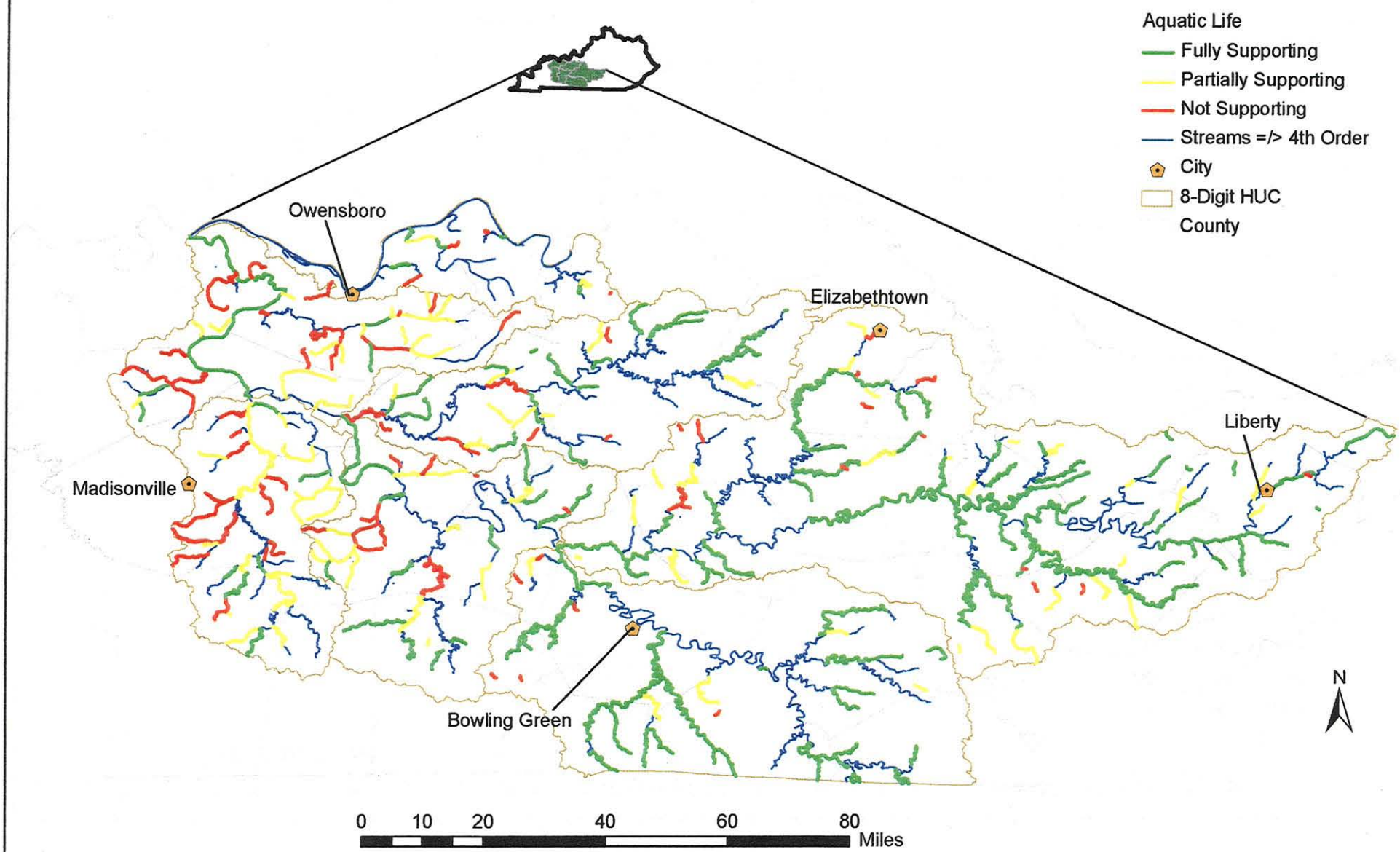
Source 2008 Integrated Report to Congress

Figure B-10: Reach indexing results of streams assessed in the 4-Rivers basin (lower Cumberland, Mississippi, Ohio and Tennessee rivers) for Drinking Water Source Use



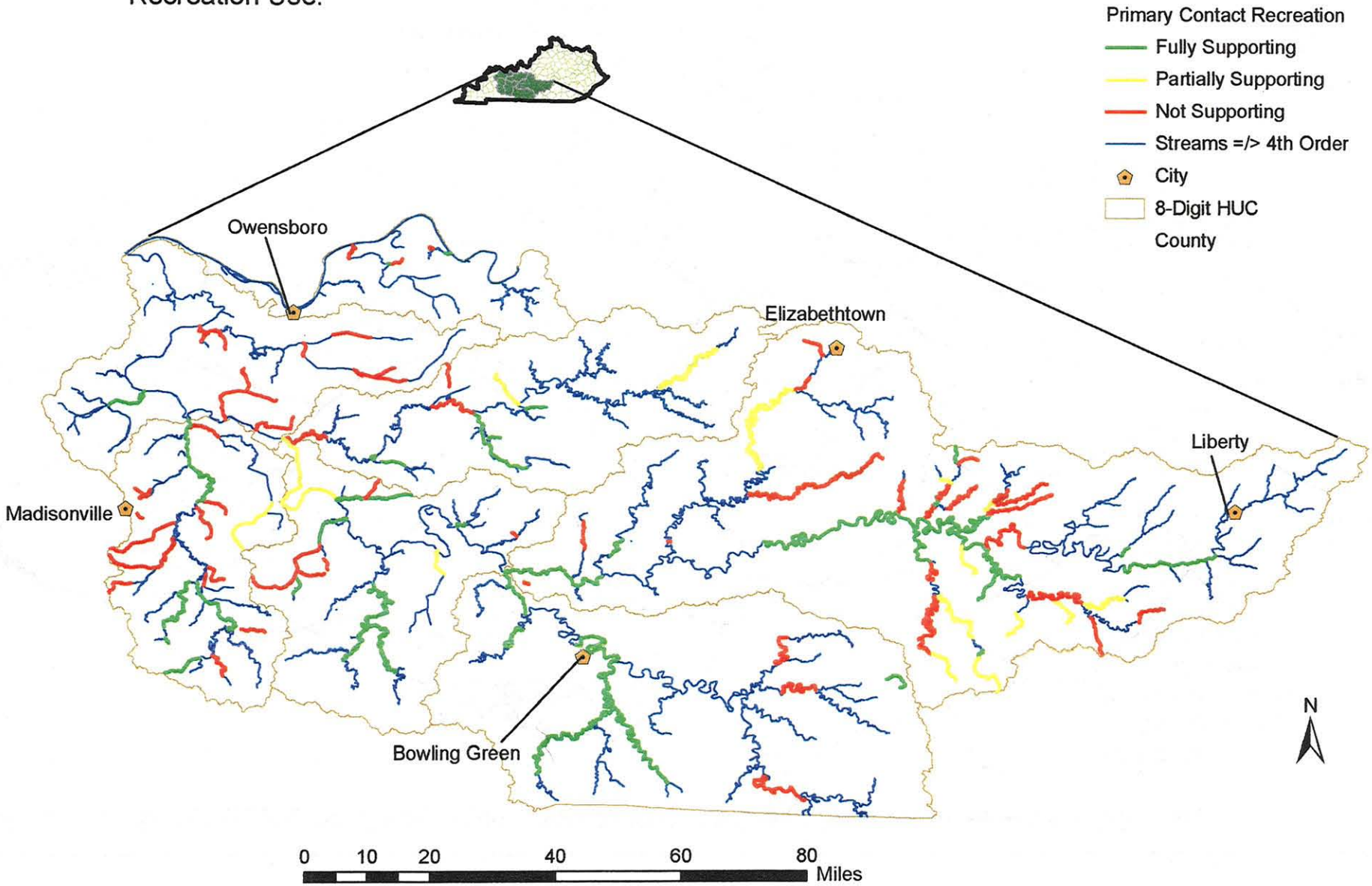
Source 2008 Integrated Report to Congress

Figure B-11: Reach indexing results of streams assessed in the Green River basin for Aquatic Life Use.



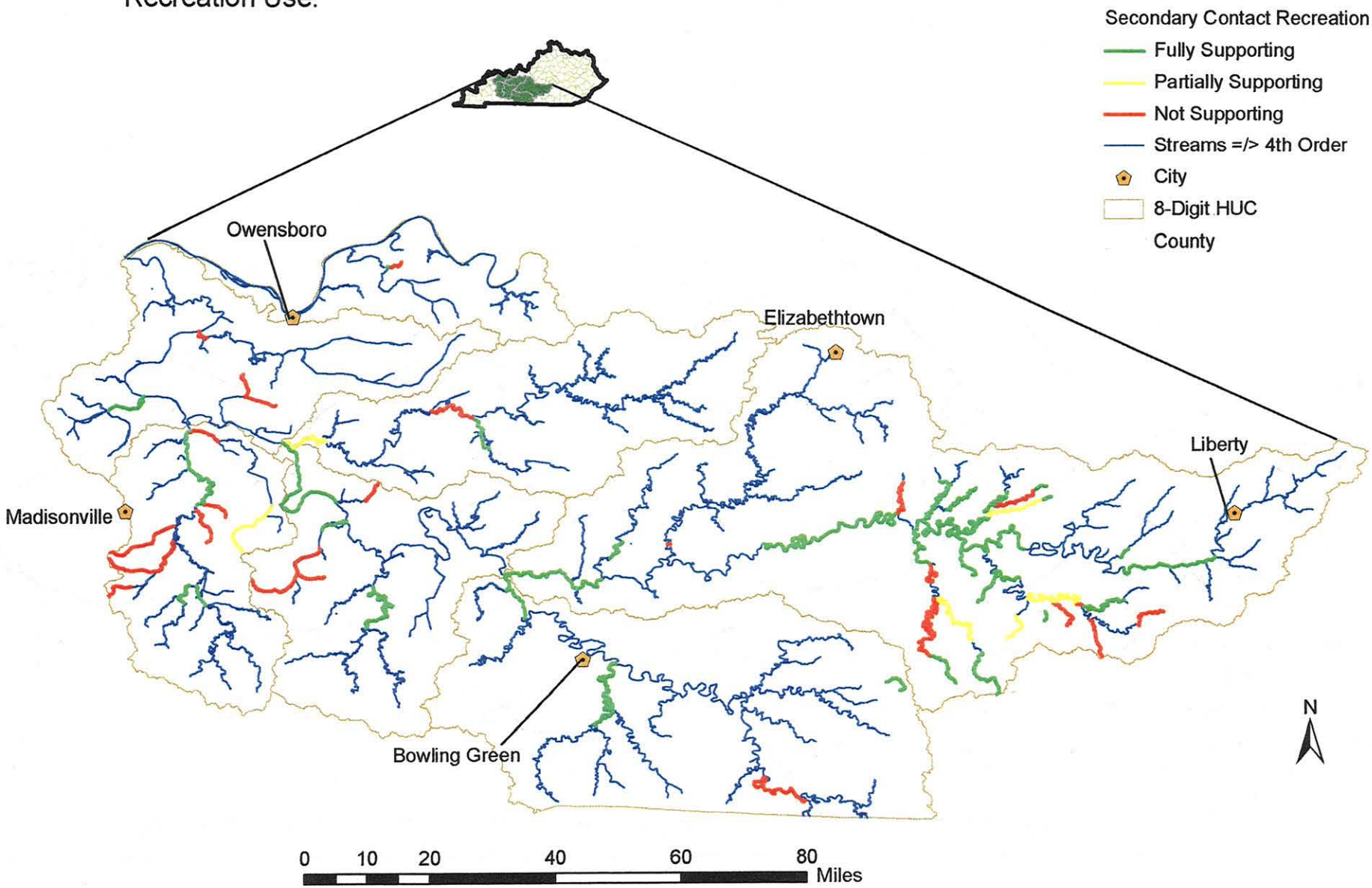
Source 2008 Integrated Report to Congress

Figure B-12: Reach indexing results of streams assessed in the Green River basin for Primary Contact Recreation Use.



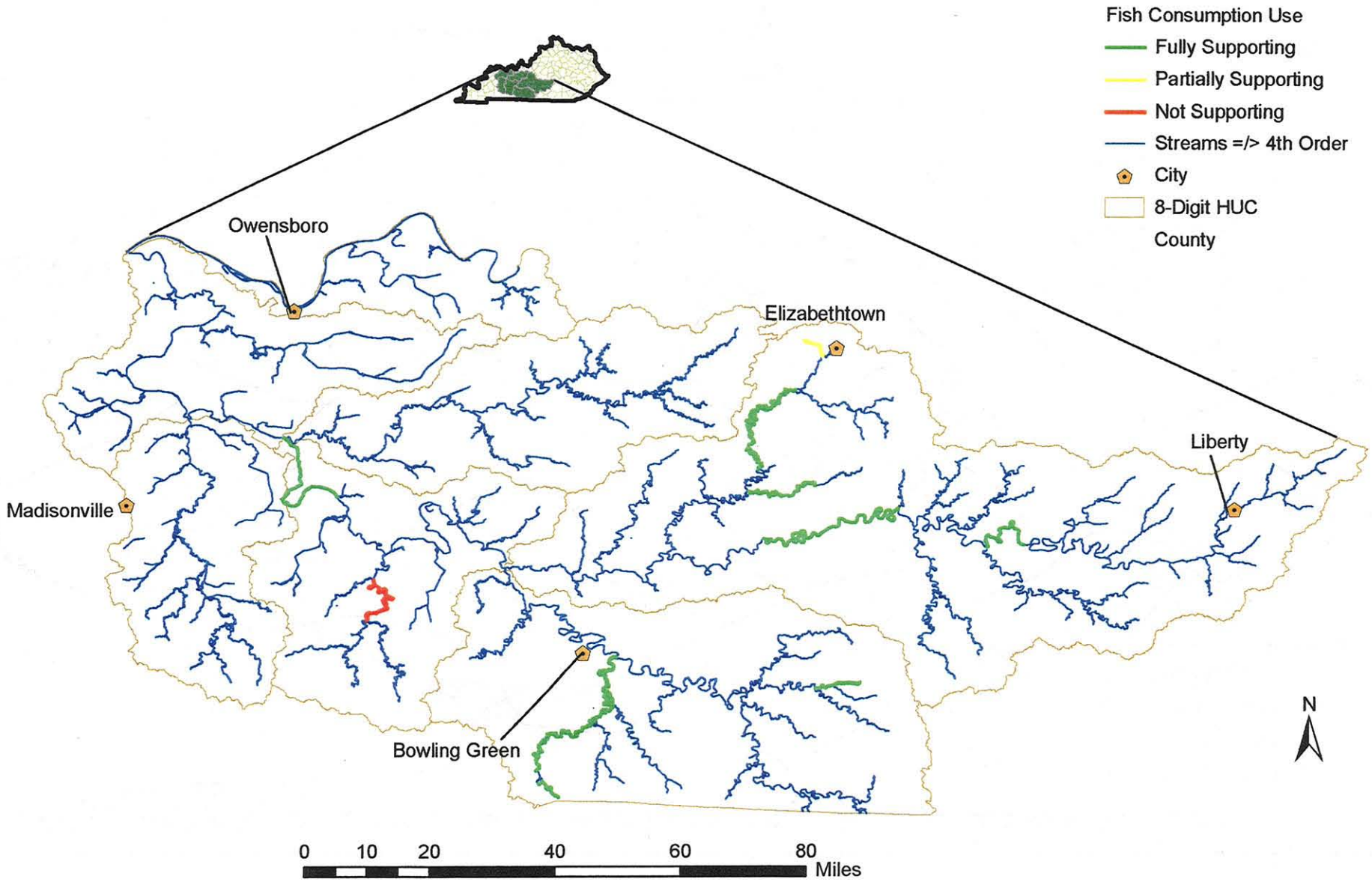
Source 2008 Integrated Report to Congress

Figure B-13: Reach indexing results of streams assessed in the Green River basin for Secondary Contact Recreation Use.



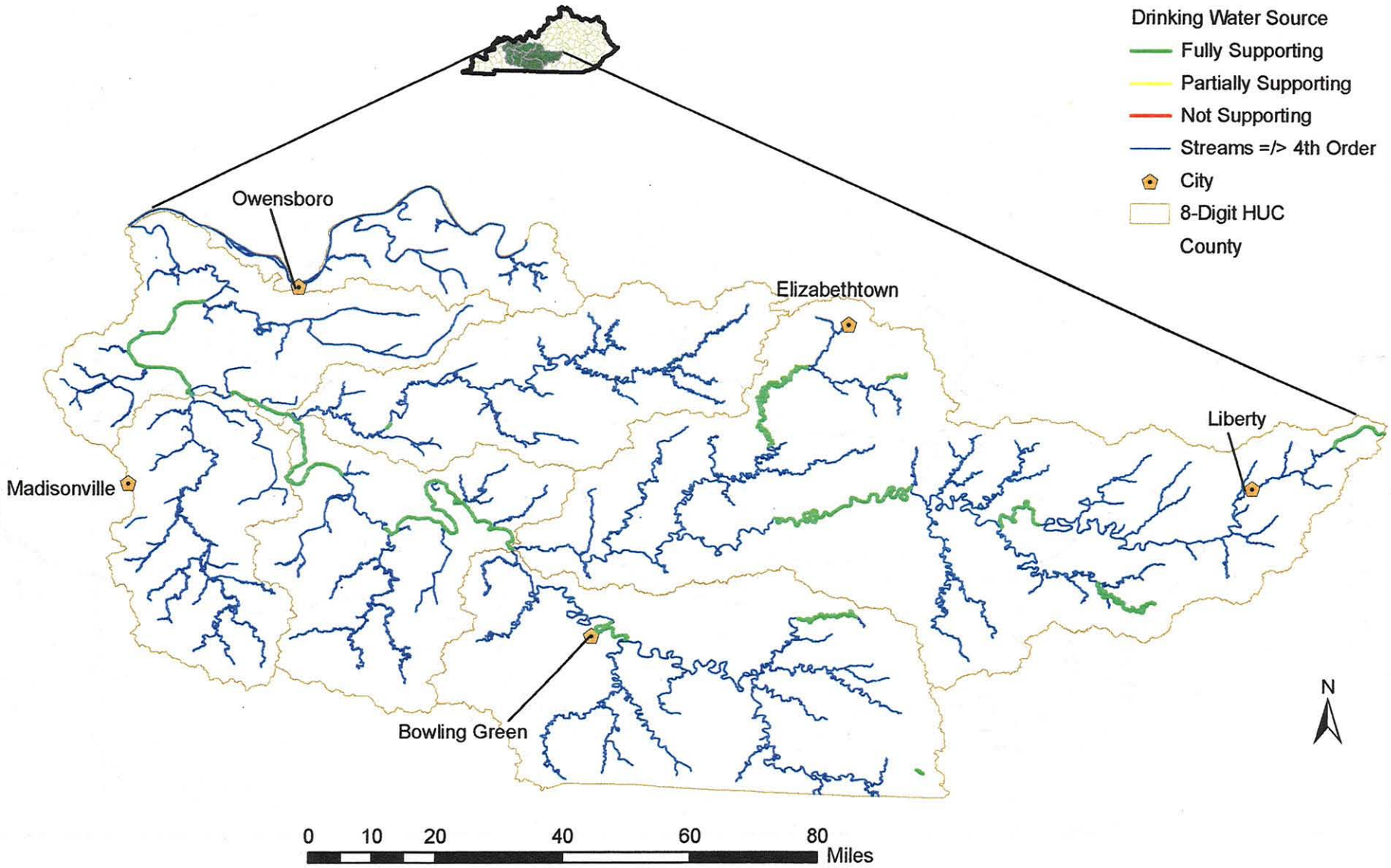
Source 2008 Integrated Report to Congress

Figure B-14: Reach indexing results of streams assessed in the Green River basin for Fish Consumption Use.



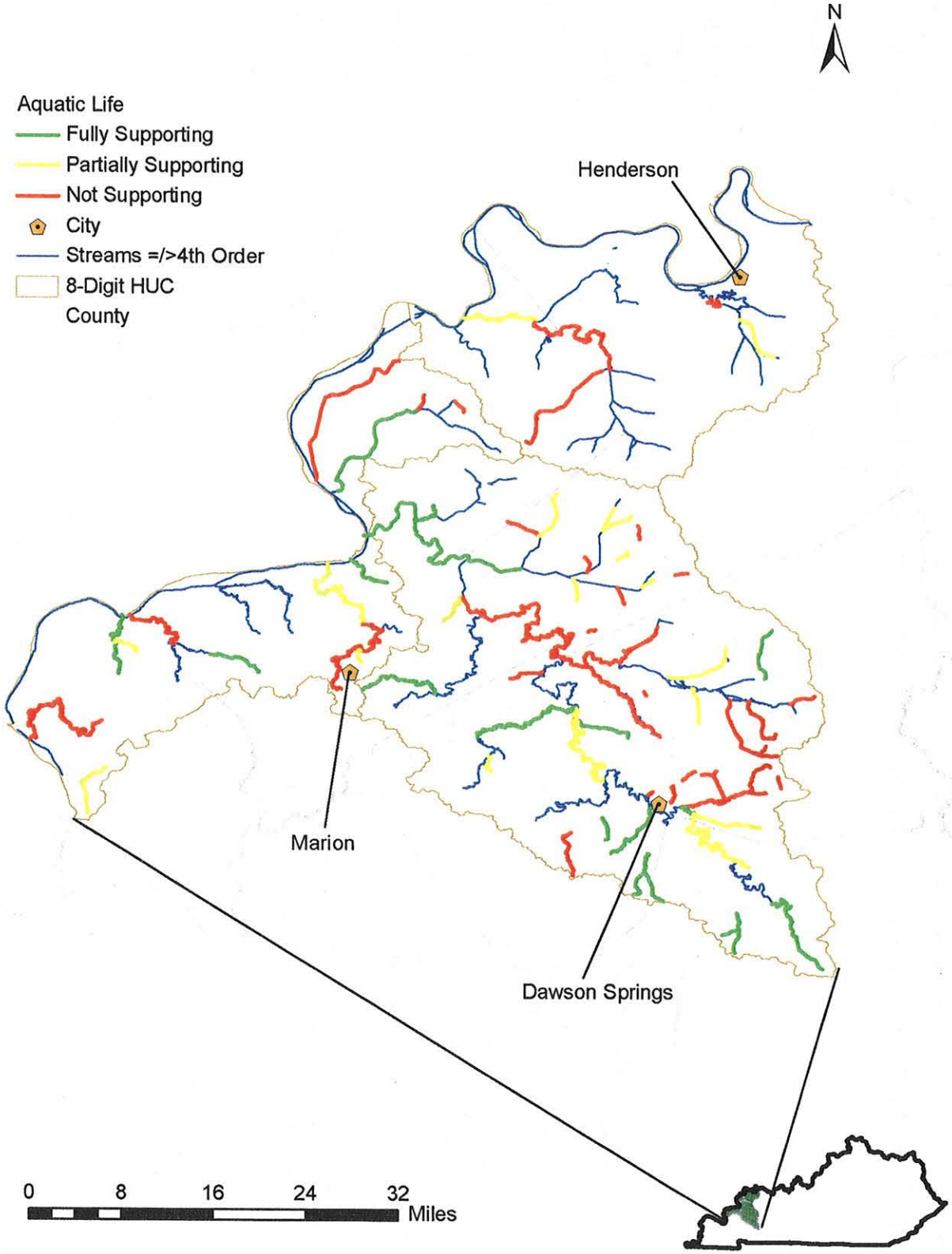
Source 2008 Integrated Report to Congress

Figure B-15: Reach indexing results of streams assessed in the Green River basin for Drinking Water Source Use.



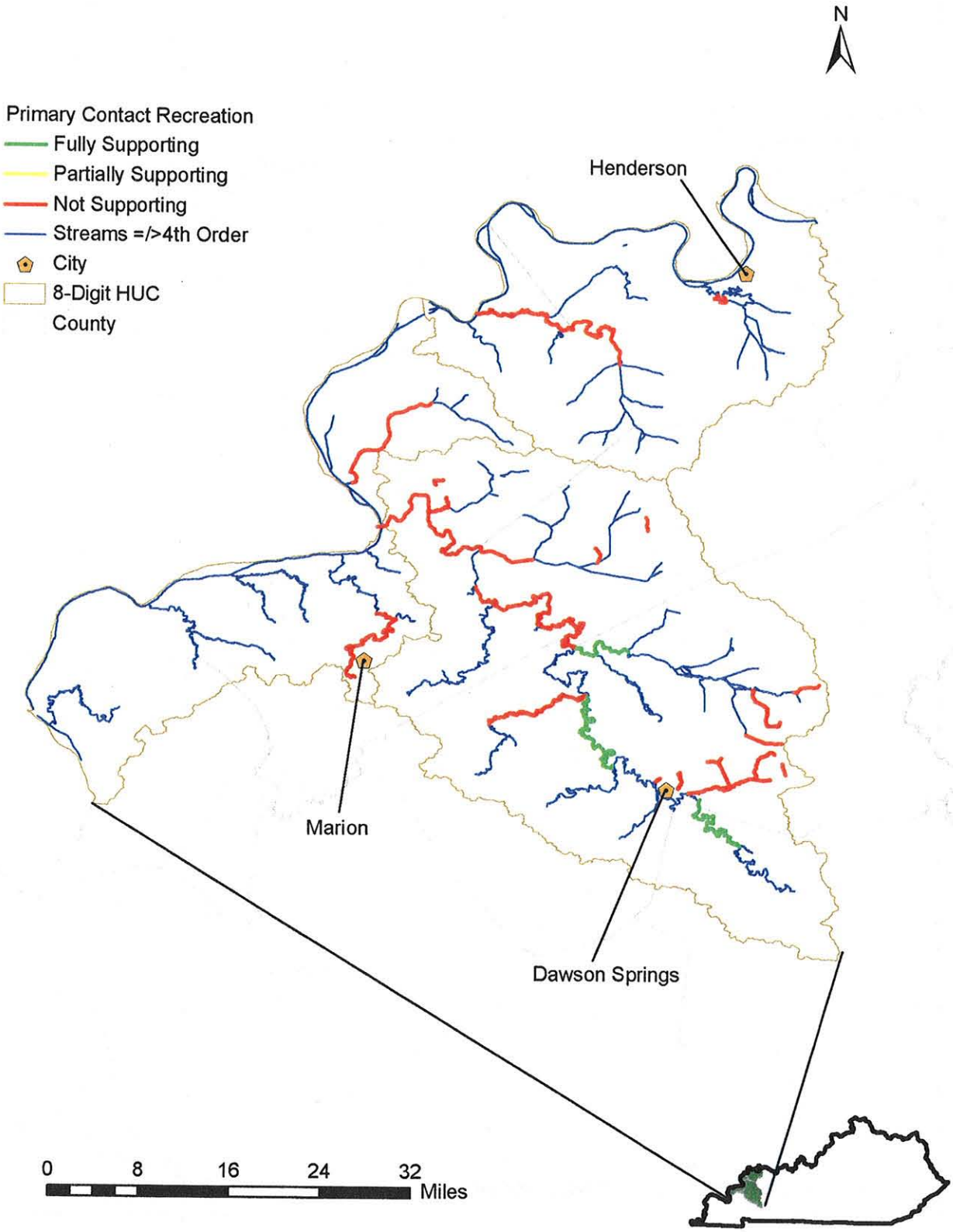
Source 2008 Integrated Report to Congress

Figure B-16: Reach indexing results of streams assessed in the Tradewater River basin for Aquatic Life Use.



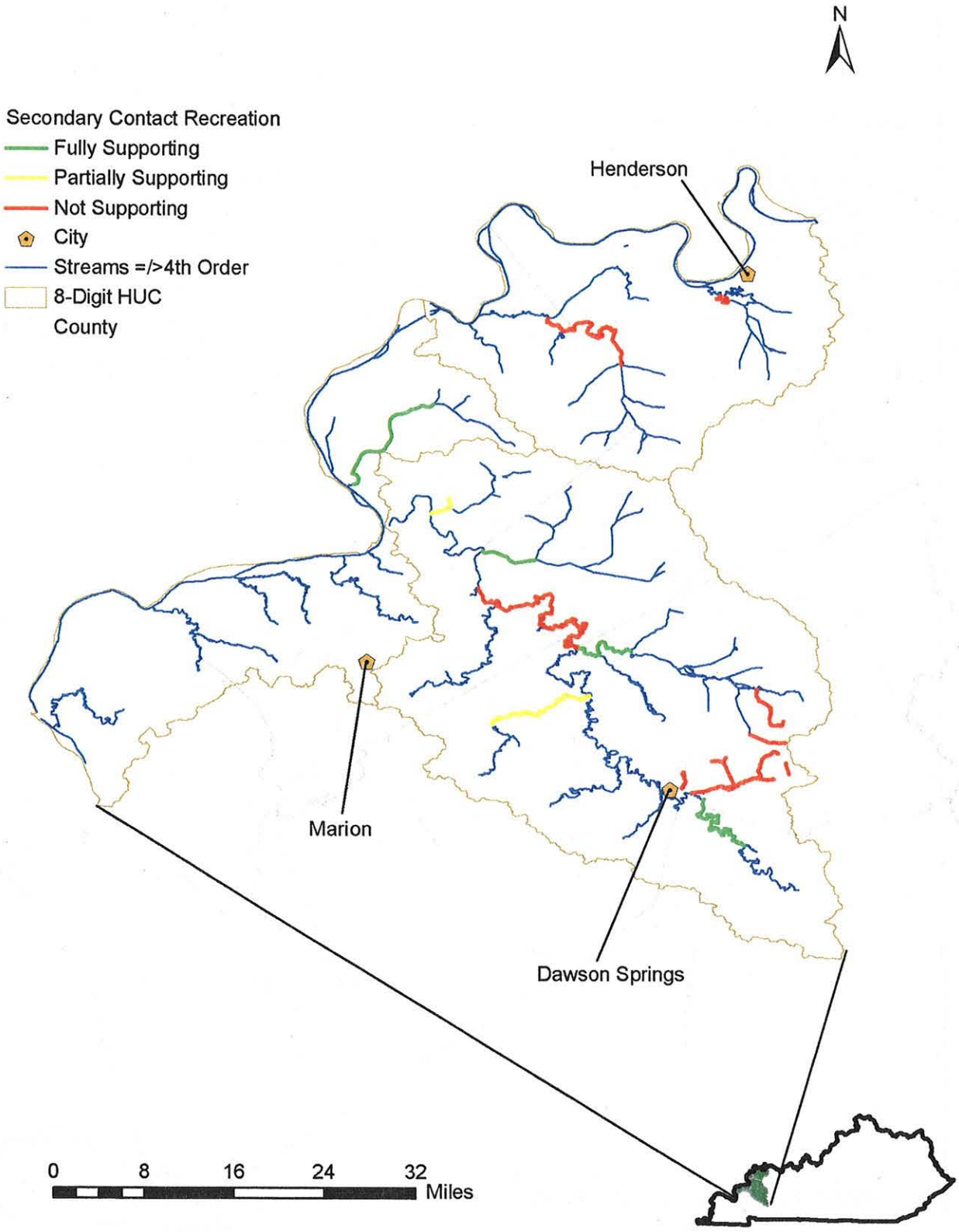
Source 2008 Integrated Report to Congress

Figure B-17: Reach indexing results of streams assessed in the Tradewater River basin for Primary Contact Recreation Use.



Source 2008 Integrated Report to Congress

Figure B-18: Reach indexing results of streams assessed in the Tradewater River basin for Secondary Contact Recreation Use.



Source 2008 Integrated Report to Congress

Appendix C. Use Assessment Maps of Lakes and Reservoirs Monitored in the Upper Cumberland – 4-Rivers BMU and Green – Tradewater Rivers BMU.

Figure C-1: Monitoring locations, trophic state index and general use support on Lake Cumberland in the upper Cumberland River basin.

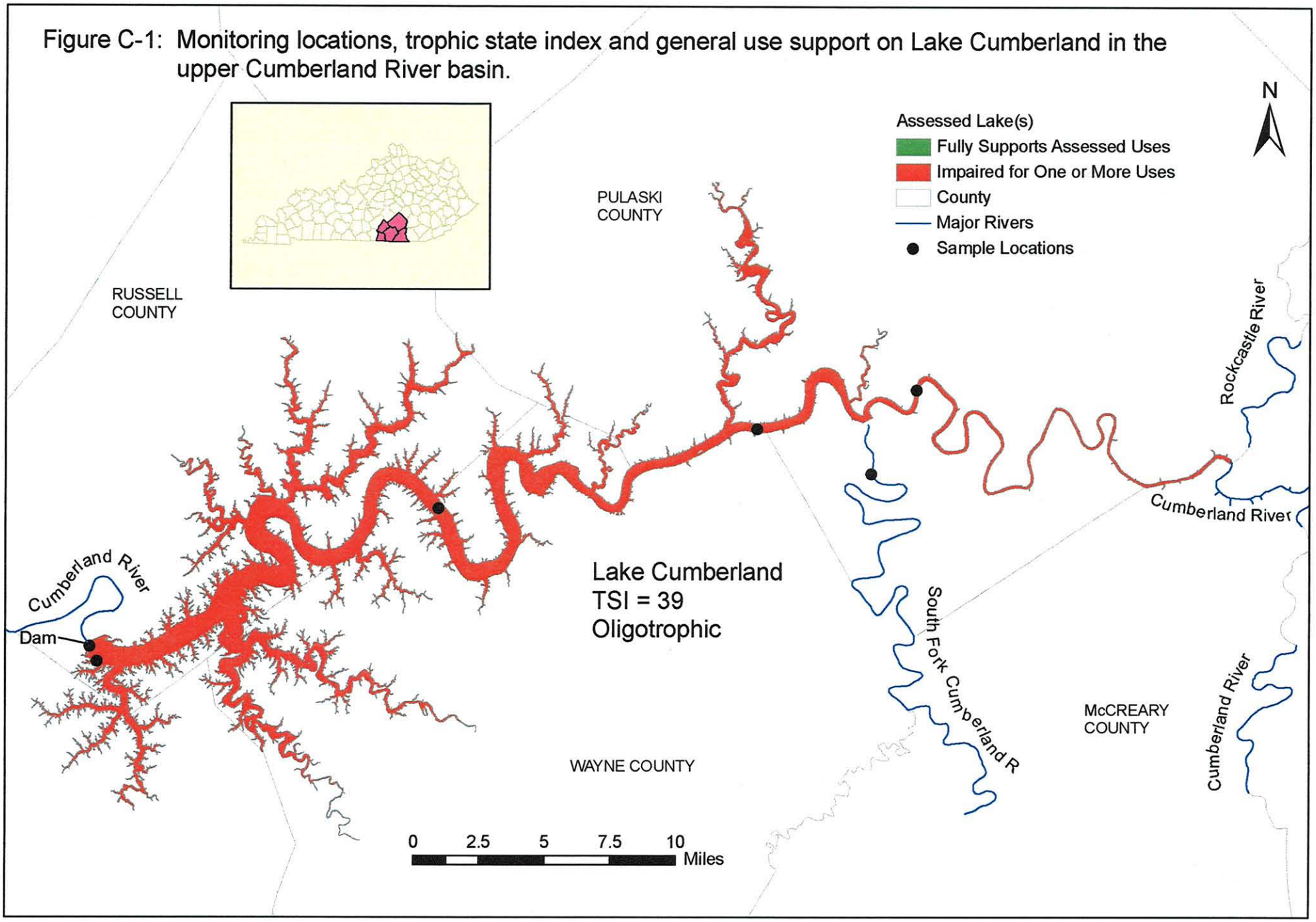


Figure C-2: Monitoring locations, trophic state index and general use support on Dale Hollow Reservoir in the upper Cumberland River basin.

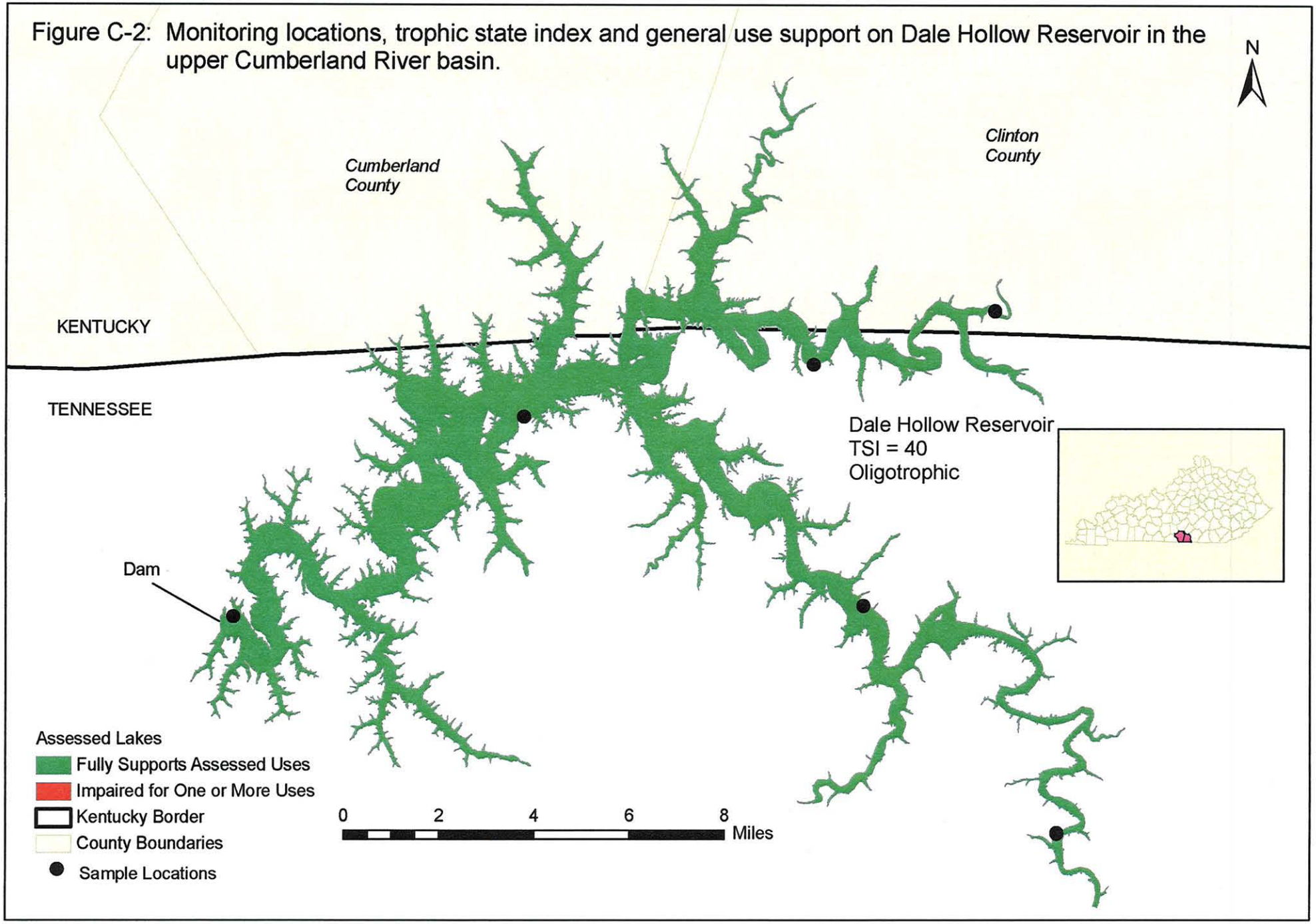


Figure C-3: Monitoring locations, trophic state index and general use support on Laurel River and Corbin City reservoirs in the upper Cumberland River basin.

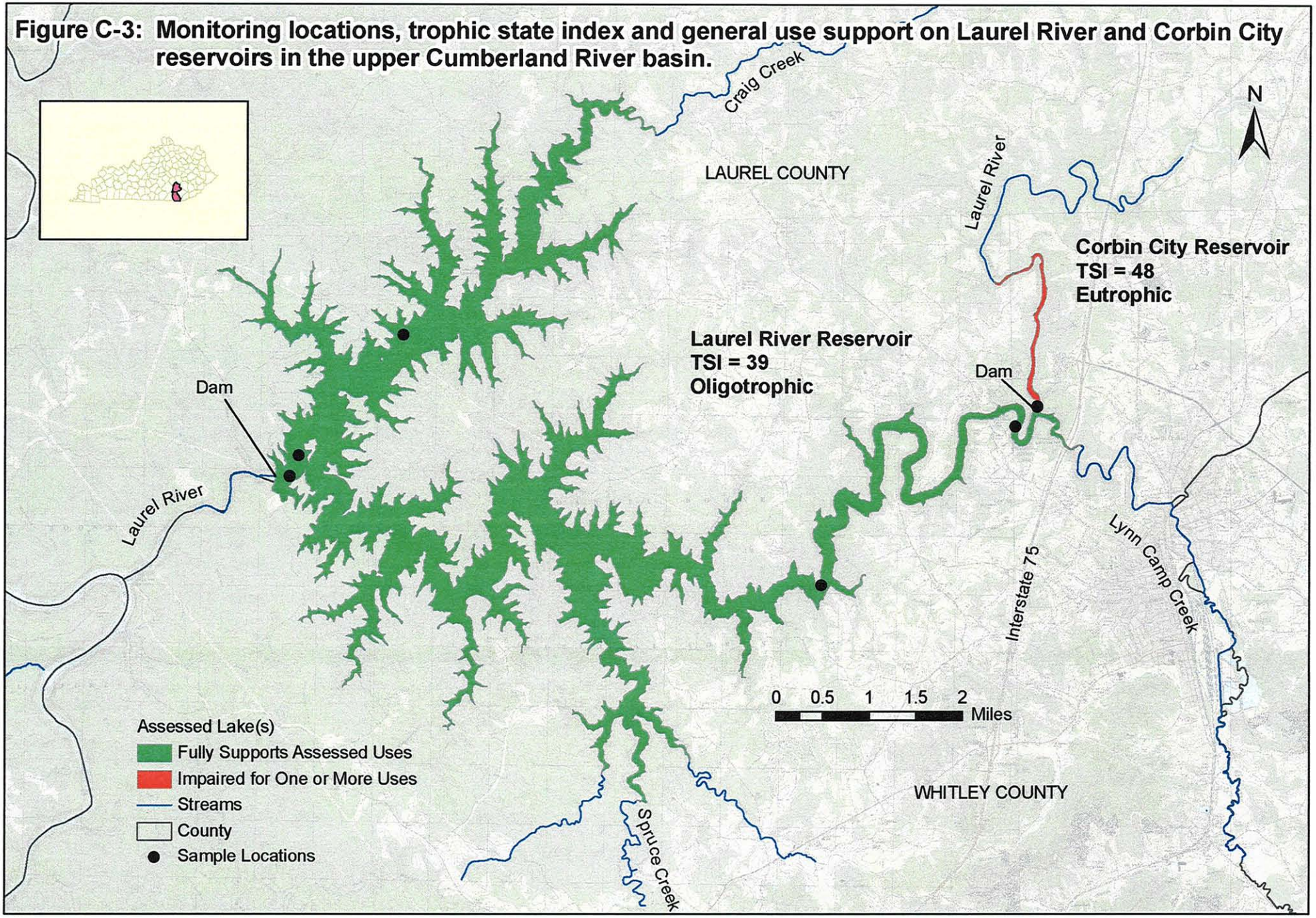


Figure C-4: Monitoring locations, trophic state index and general use support on Martins Fork Reservoir and Cranks Creek Lake in the upper Cumberland River basin.

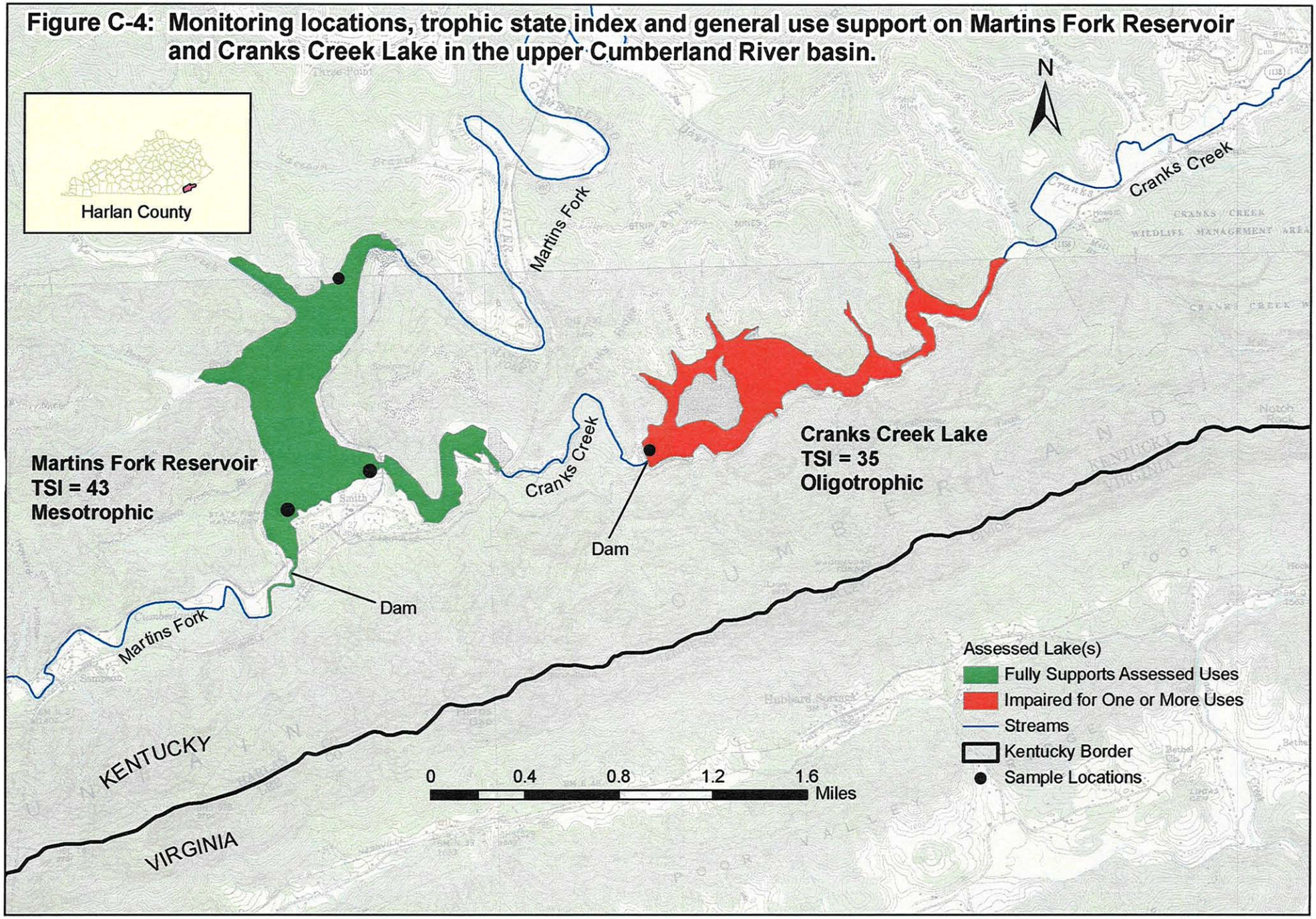
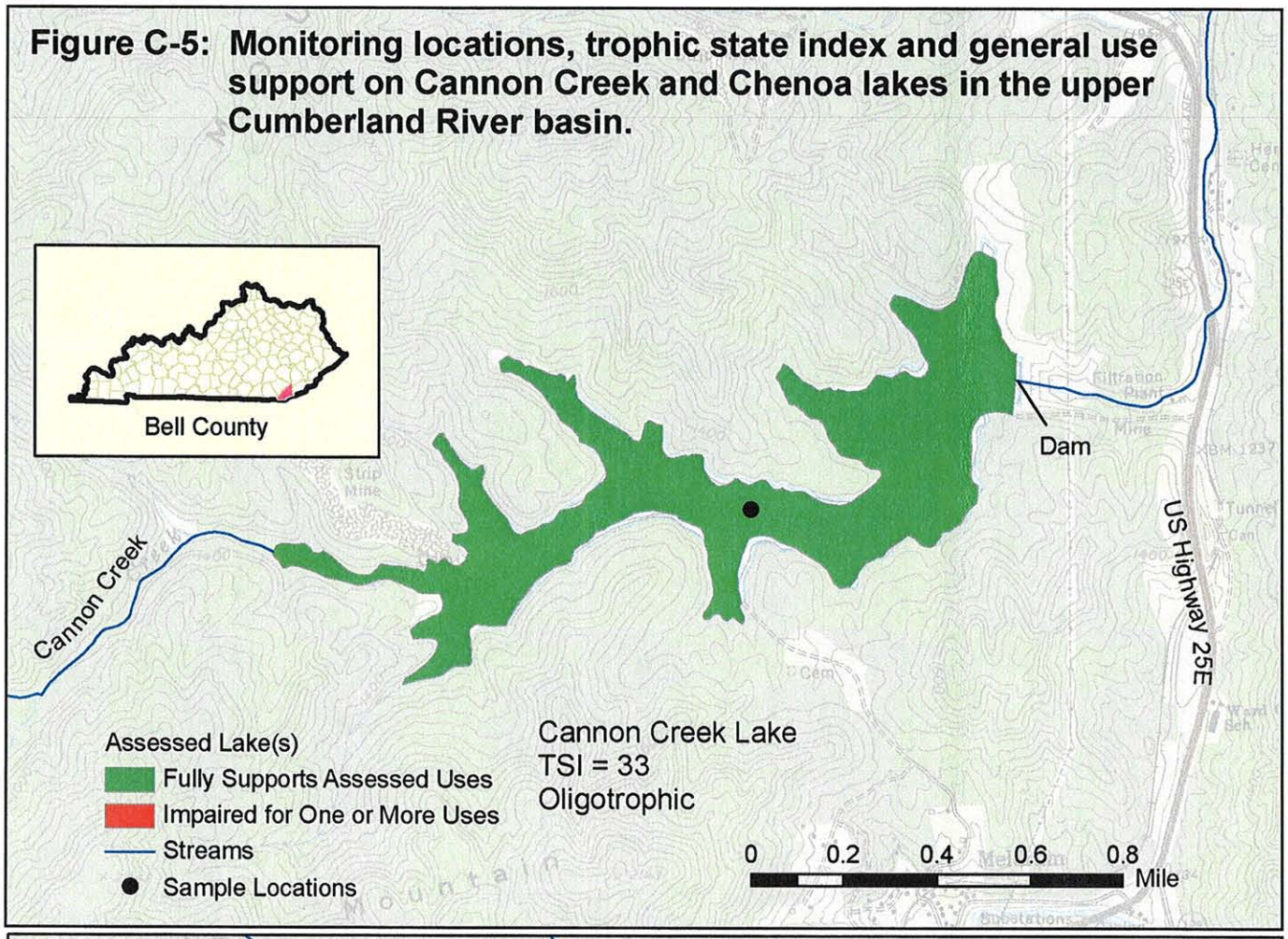


Figure C-5: Monitoring locations, trophic state index and general use support on Cannon Creek and Chenoa lakes in the upper Cumberland River basin.



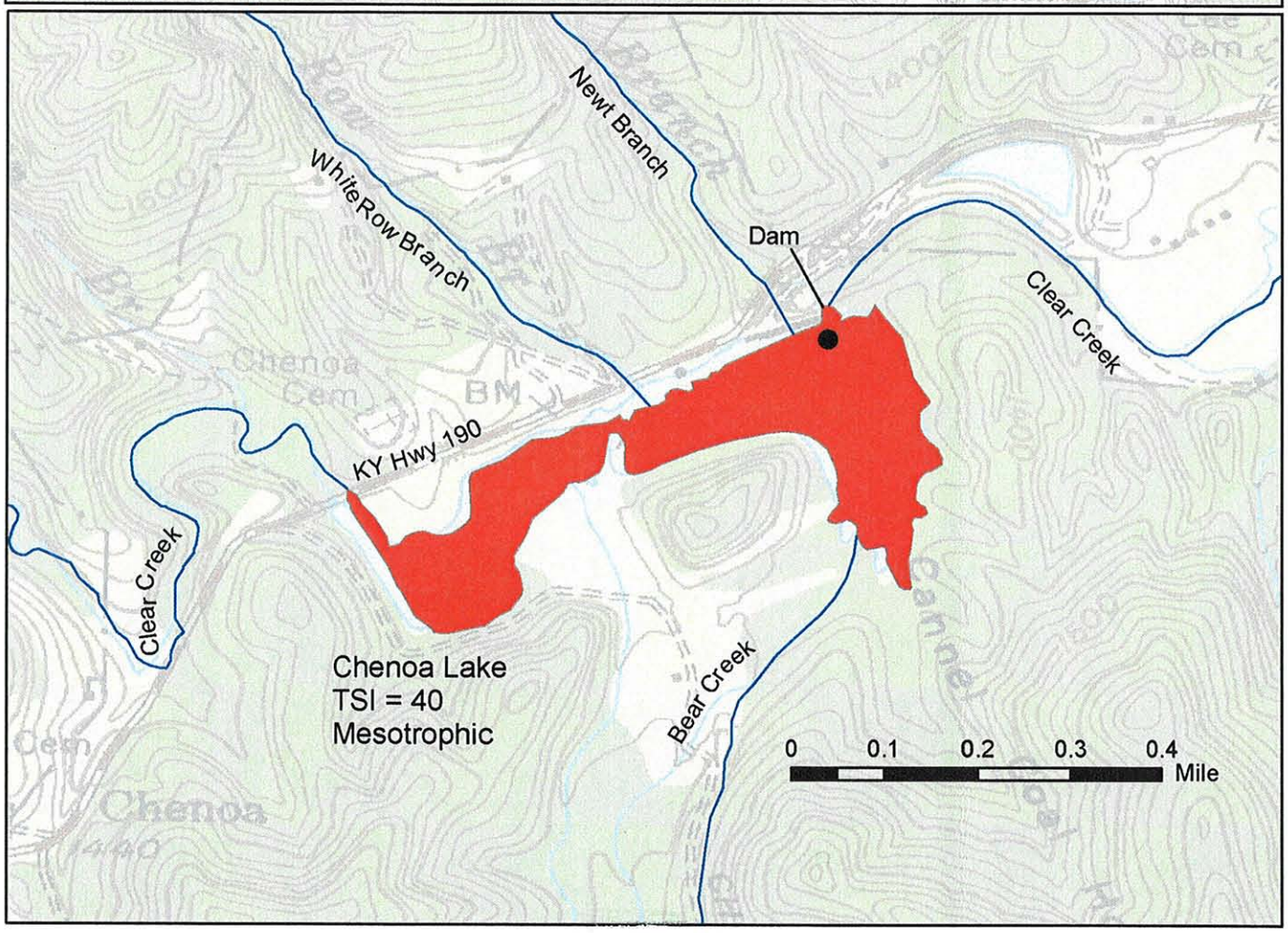
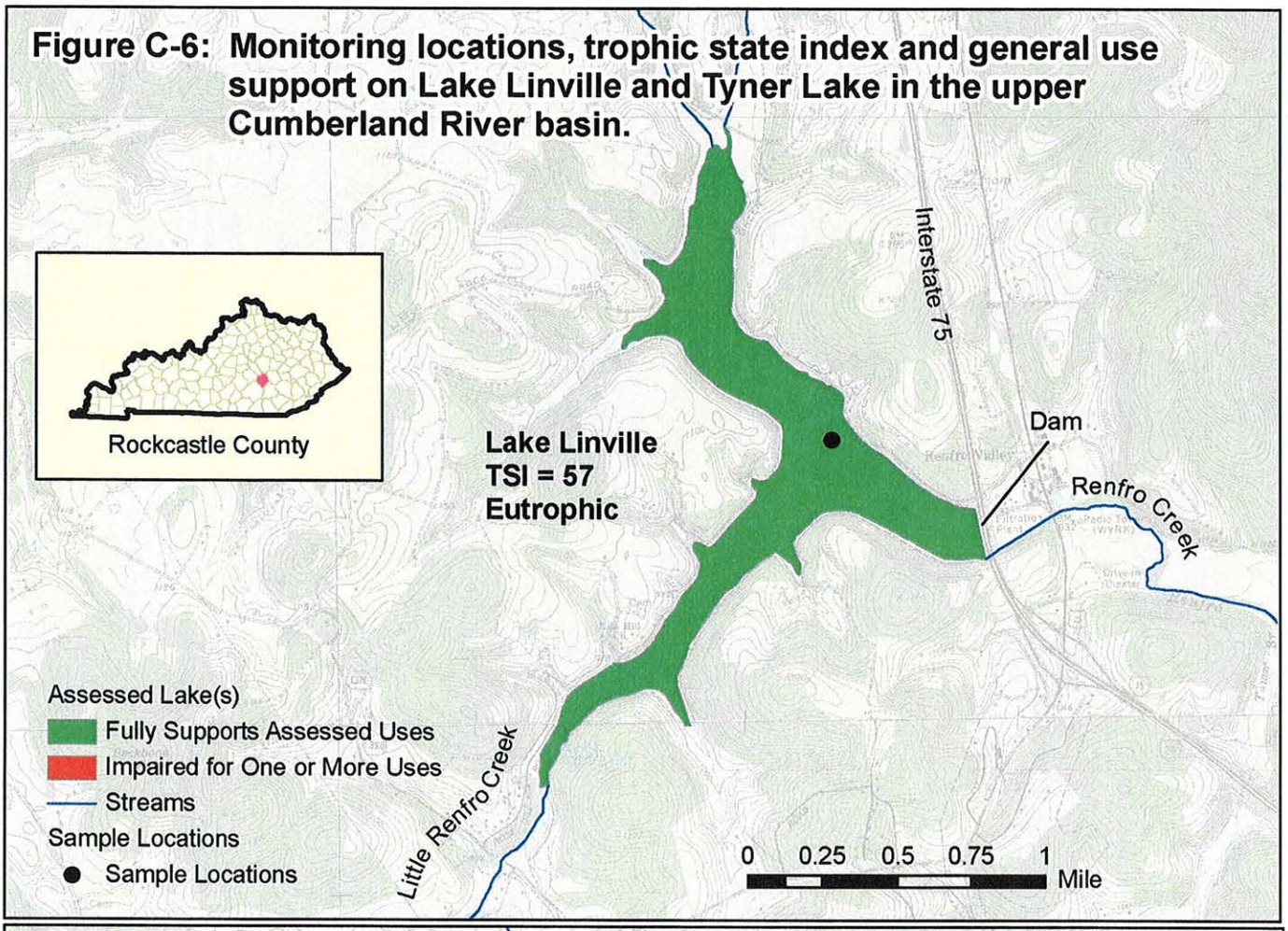


Figure C-6: Monitoring locations, trophic state index and general use support on Lake Linville and Tyner Lake in the upper Cumberland River basin.



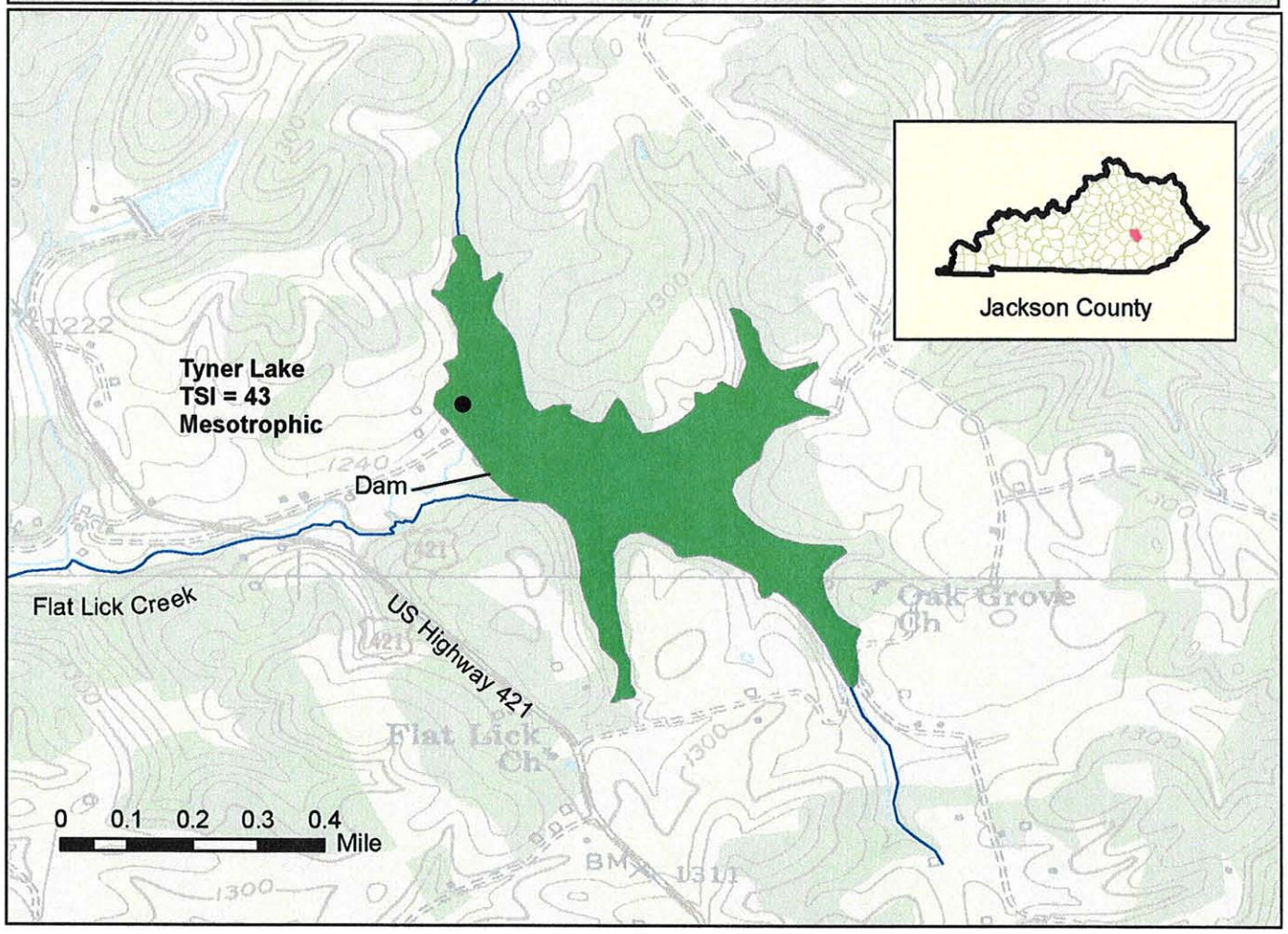


Figure C-7: Monitoring locations, trophic state index and general use support on Laurel Creek Lake in the upper Cumberland River basin.

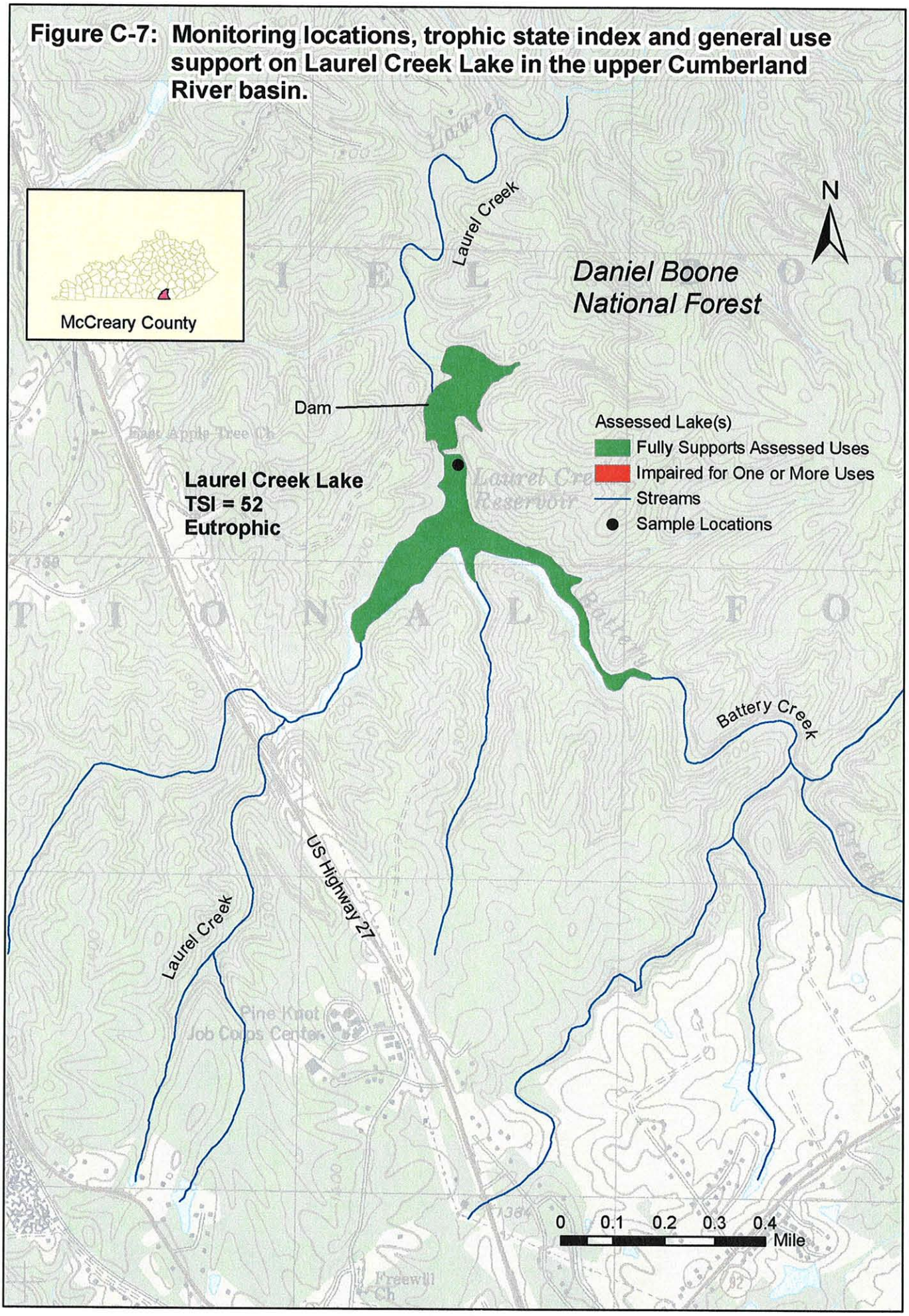


Figure C-8: Monitoring locations, trophic state index and general use support on Wood Creek Lake in the upper Cumberland River basin.

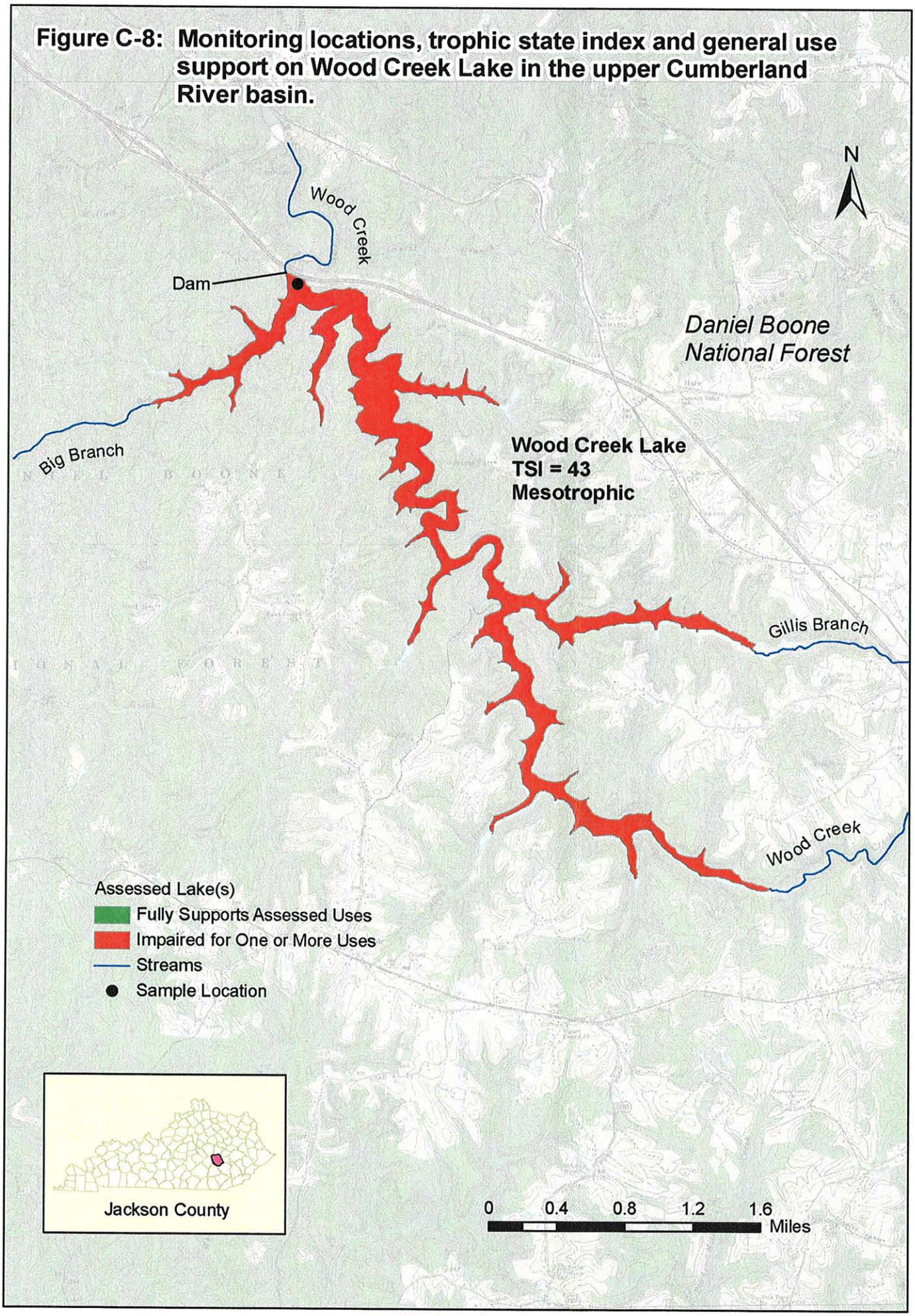


Figure C-9: Monitoring locations, trophic state index and general use support on Kentucky Lake and Lake Barkley in the 4-Rivers basin.

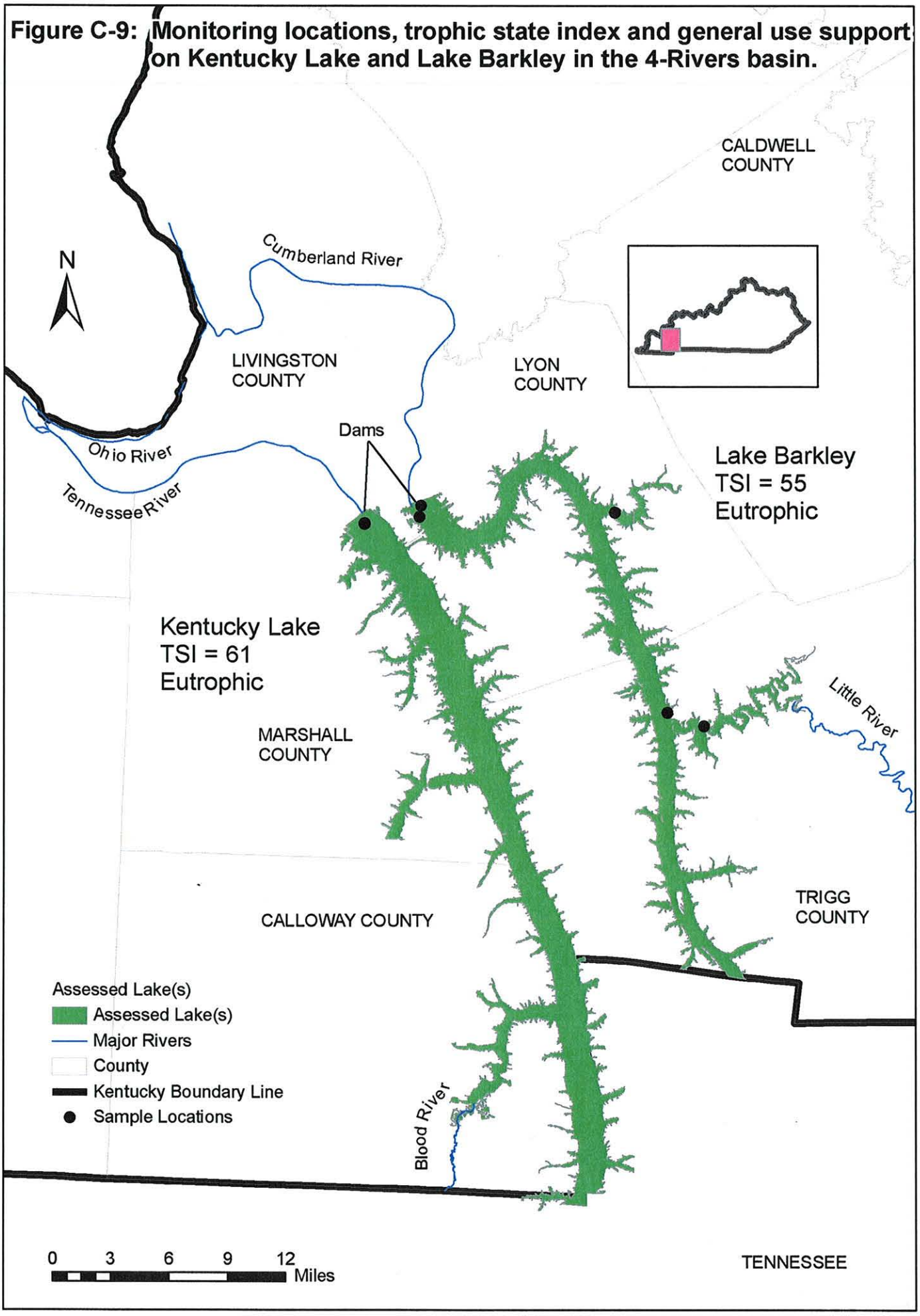


Figure C-10: Monitoring locations, trophic state index and general use support on Energy, Hematite and Honker lakes in the 4-Rivers basin.

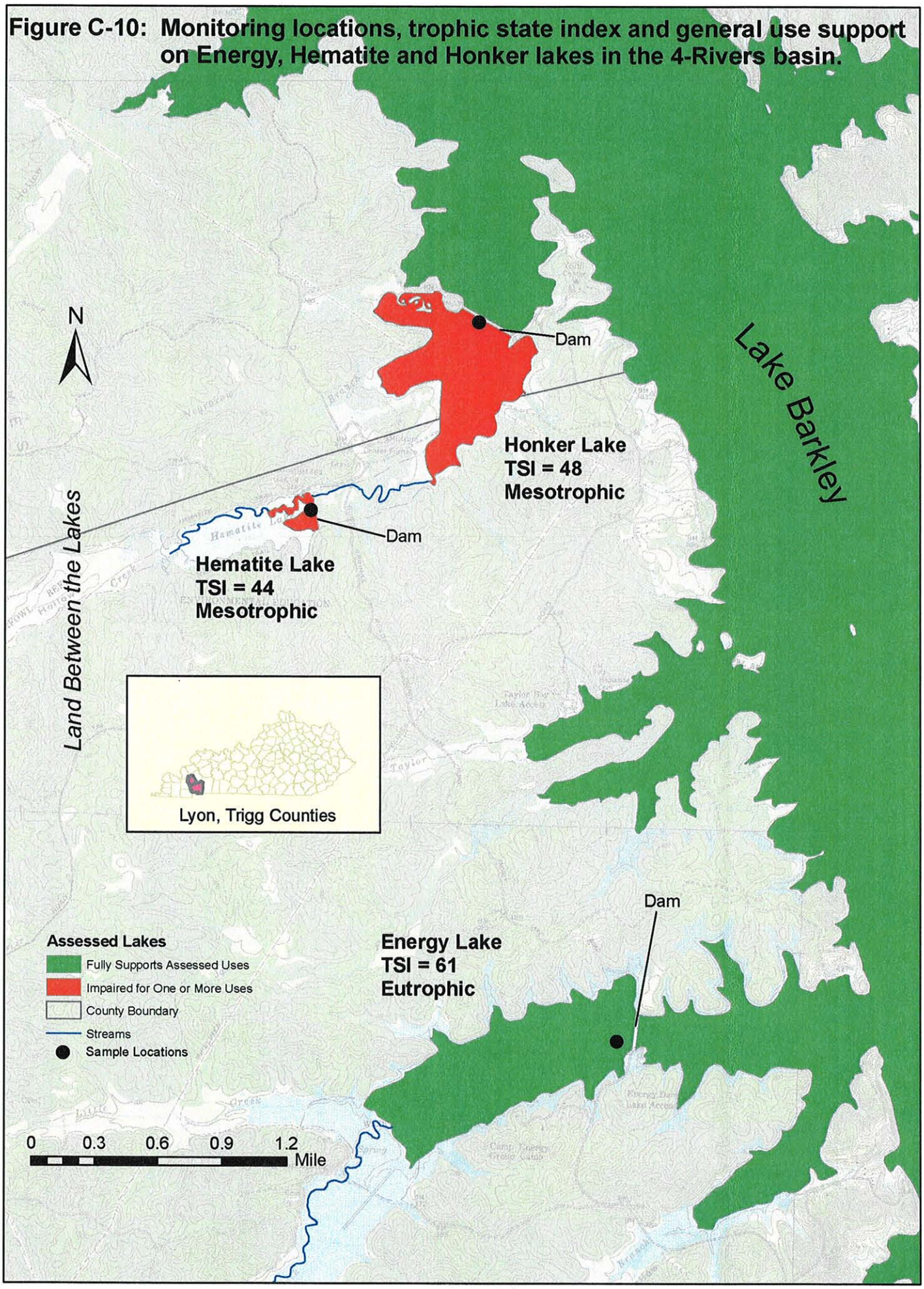


Figure C-11: Monitoring locations, trophic state index and general use support on lakes Blythe and Morris in the 4-Rivers basin.

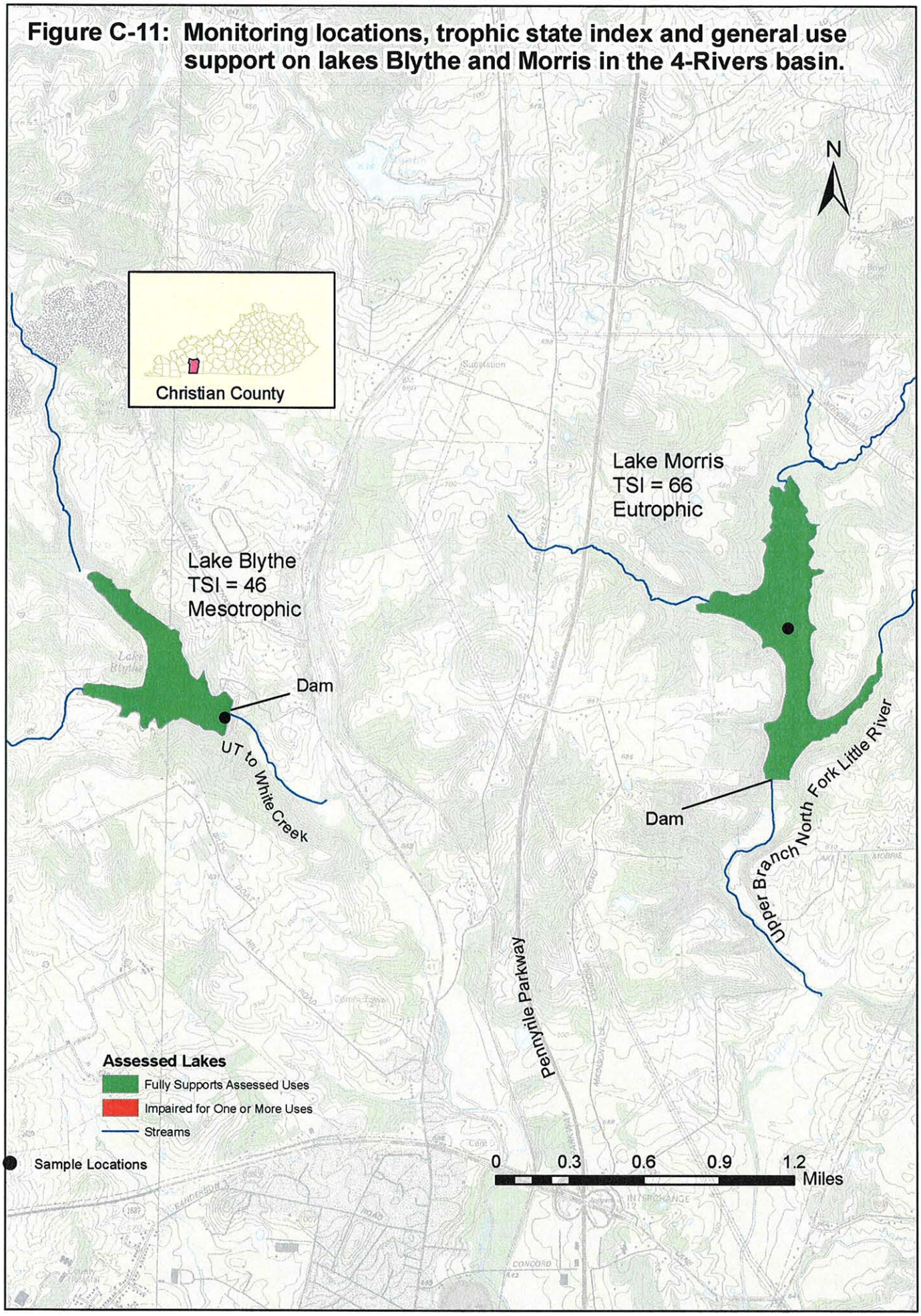


Figure C-12: Monitoring locations, trophic state index and general use support on Arrowhead, Buck, Fish and Flat lakes and Burnt, Long and Swan ponds in the 4-Rivers basin.

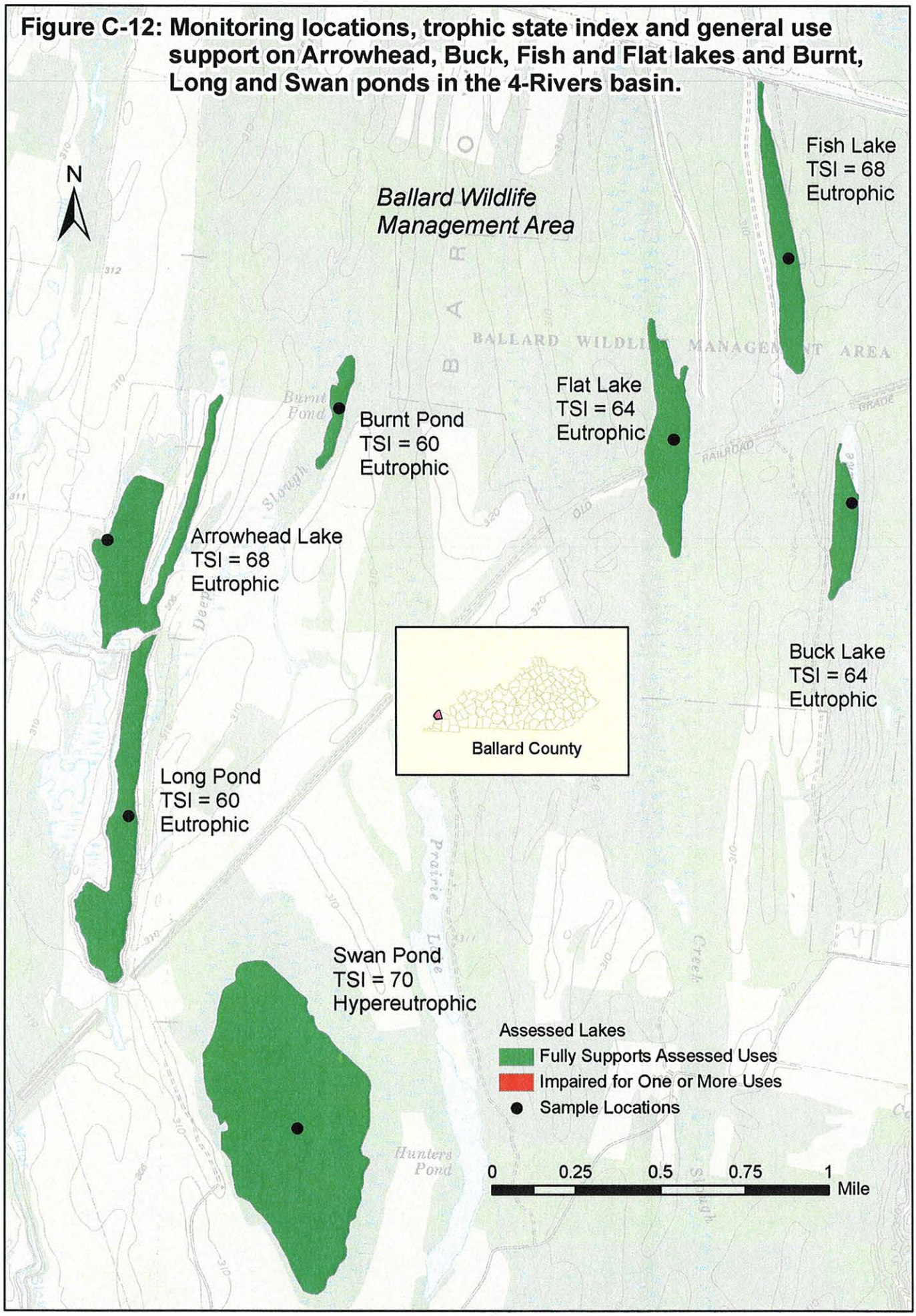


Figure C-13: Monitoring locations, trophic state index and general use support on Metropolis Lake in the 4-Rivers basin.

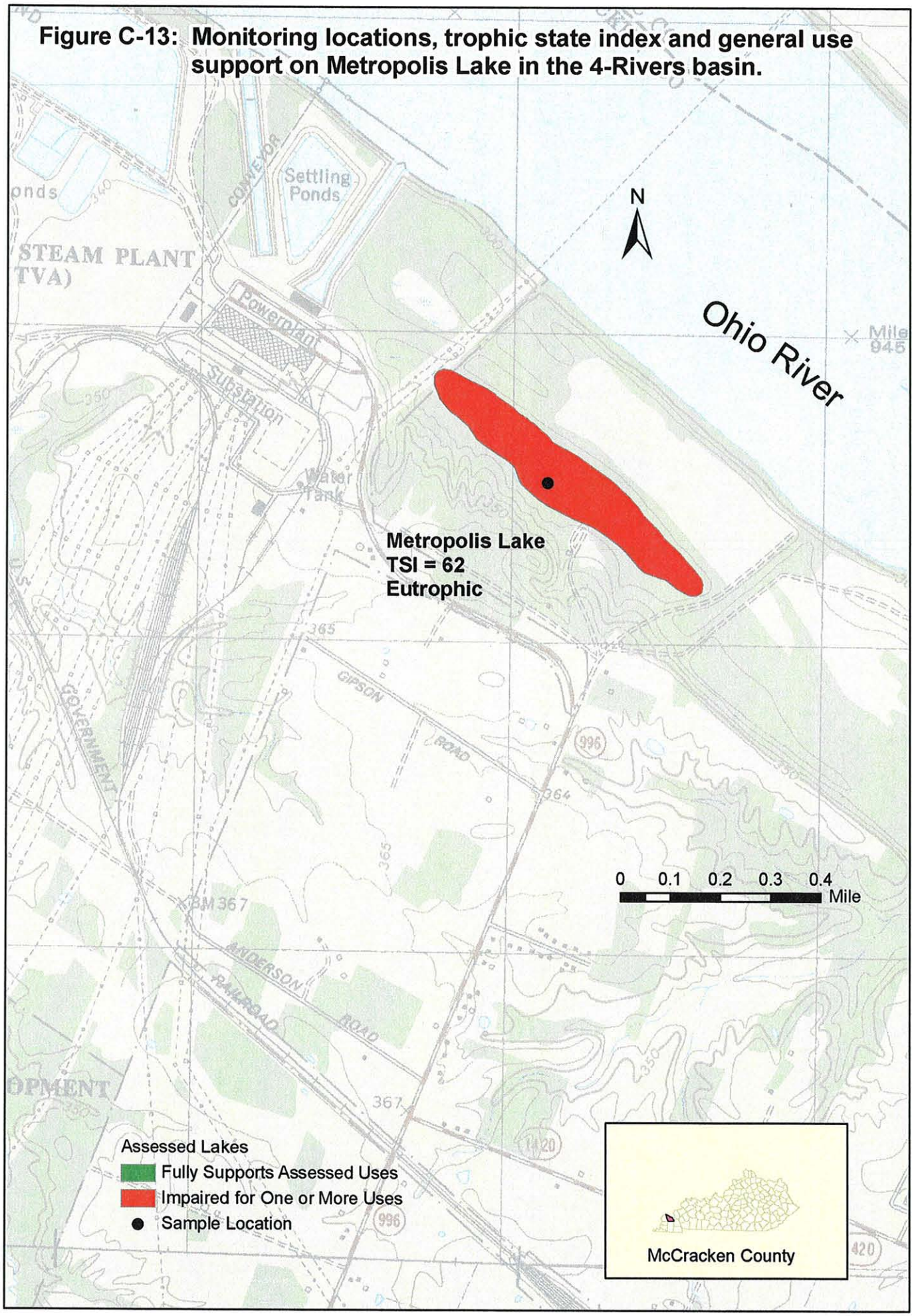


Figure C-14: Monitoring locations, trophic state index and general use support on Beaverdam, Happy Hollow, Mitchell, Shelby and Turner lakes in the 4-Rivers basin.

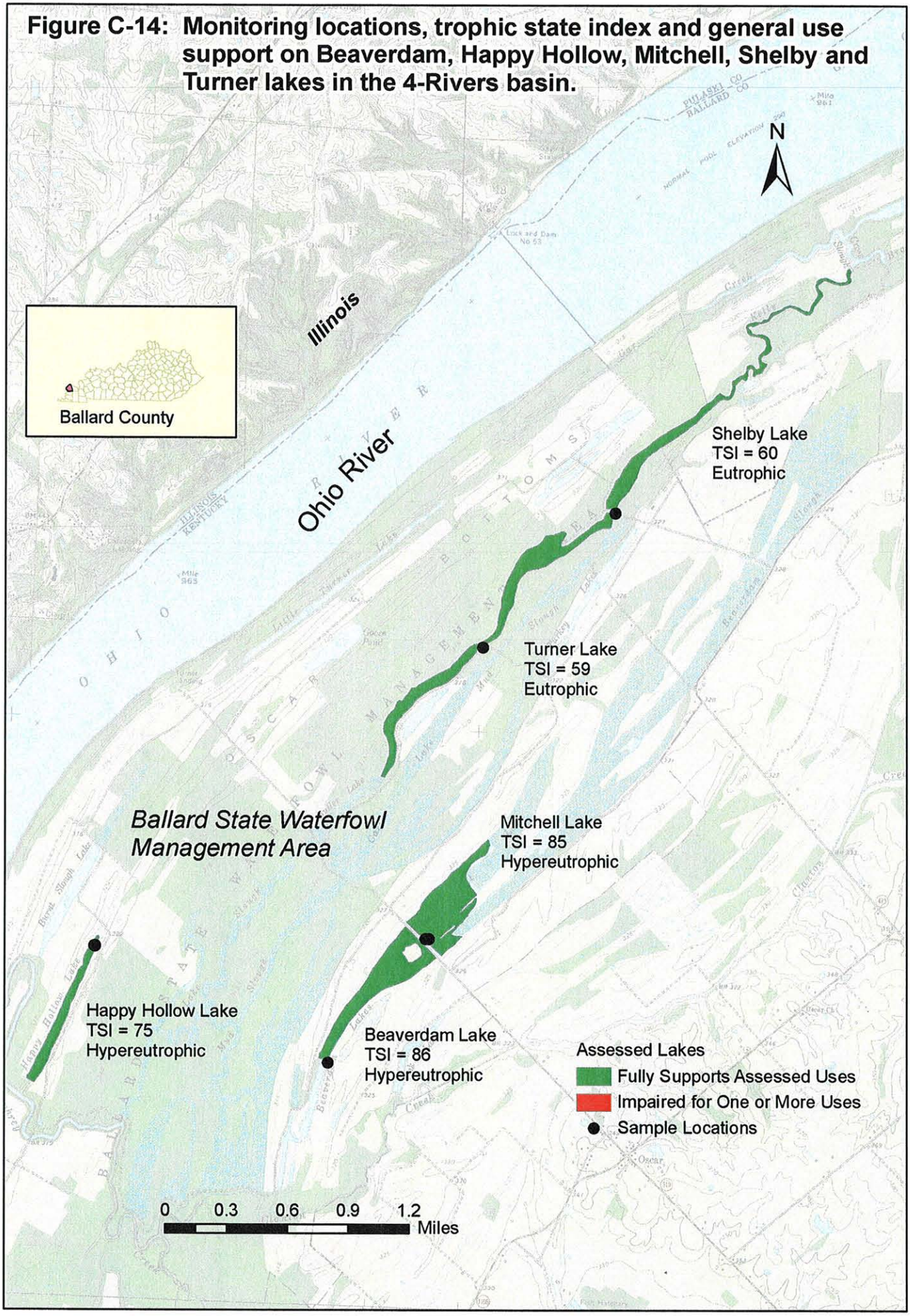


Figure C-15: Monitoring locations, trophic state index and general use support on Barren River Reservoir in the Green River basin.

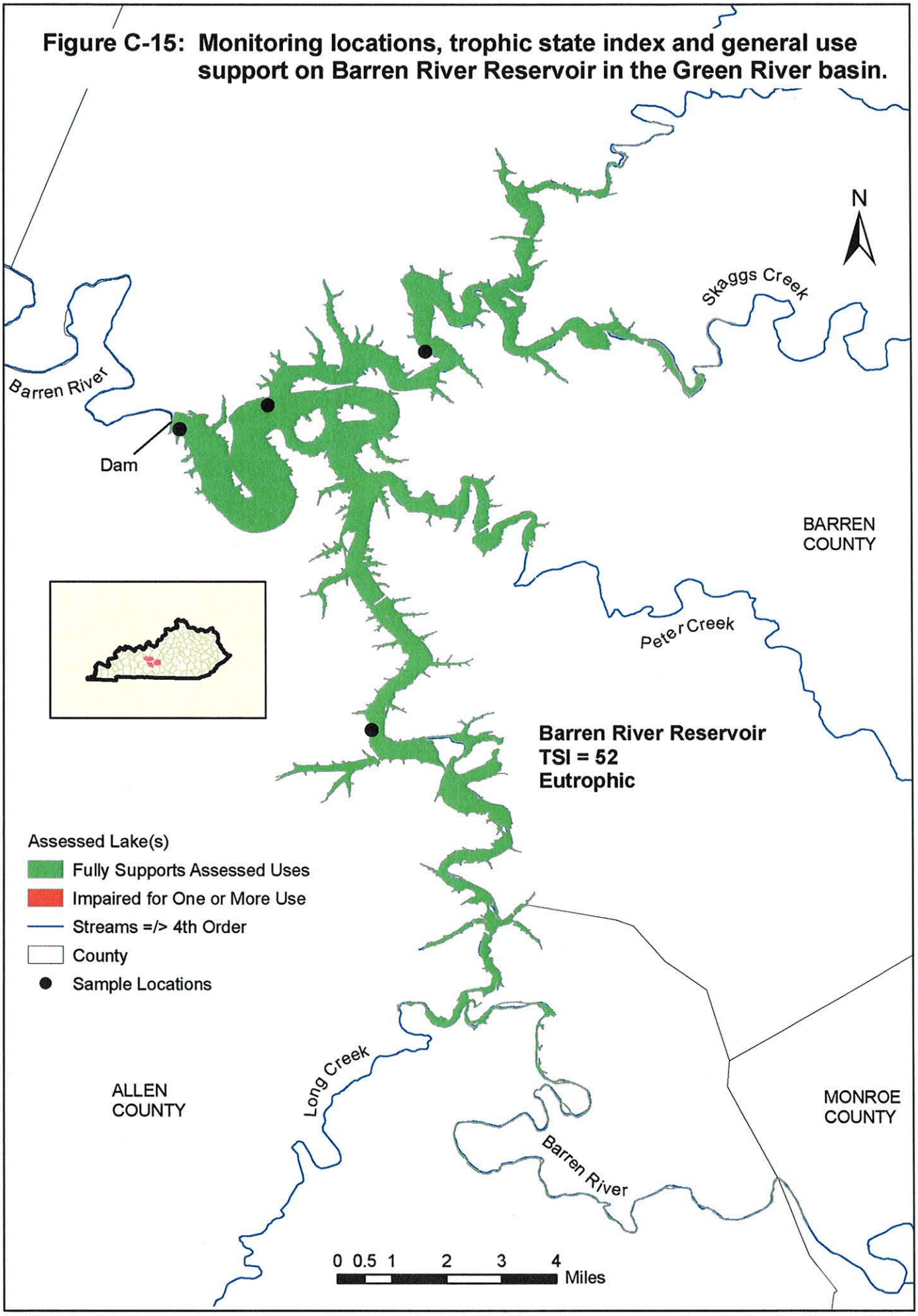


Figure C-16: Monitoring locations, trophic state index and general use support on Nolin River Reservoir in the Green River basin.

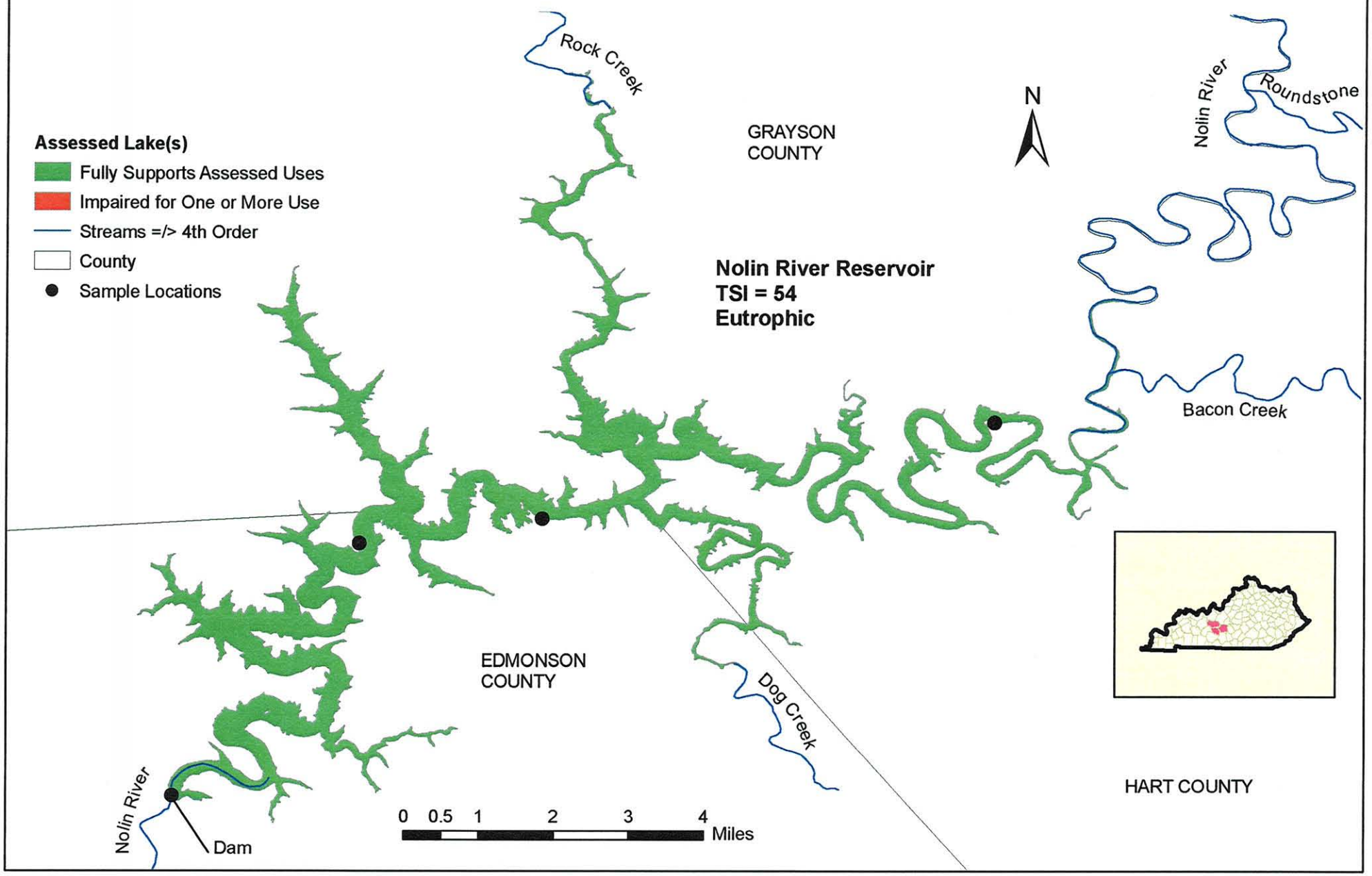


Figure C-17: Monitoring locations, trophic state index and general use support on Rough River Reservoir in the Green River basin.

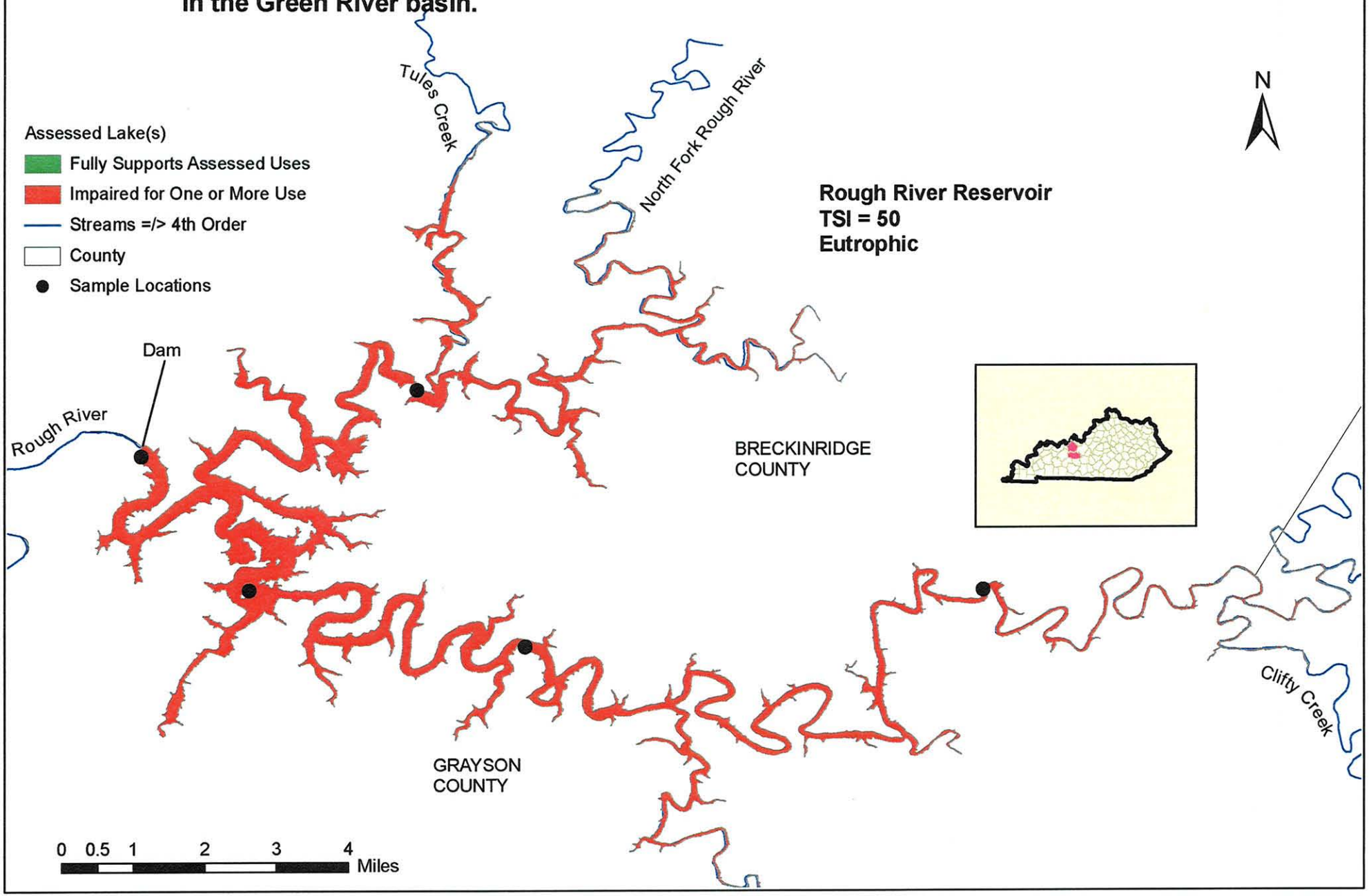


Figure C-18: Monitoring locations, trophic state index and general use support on Green River Reservoir in the Green River basin.

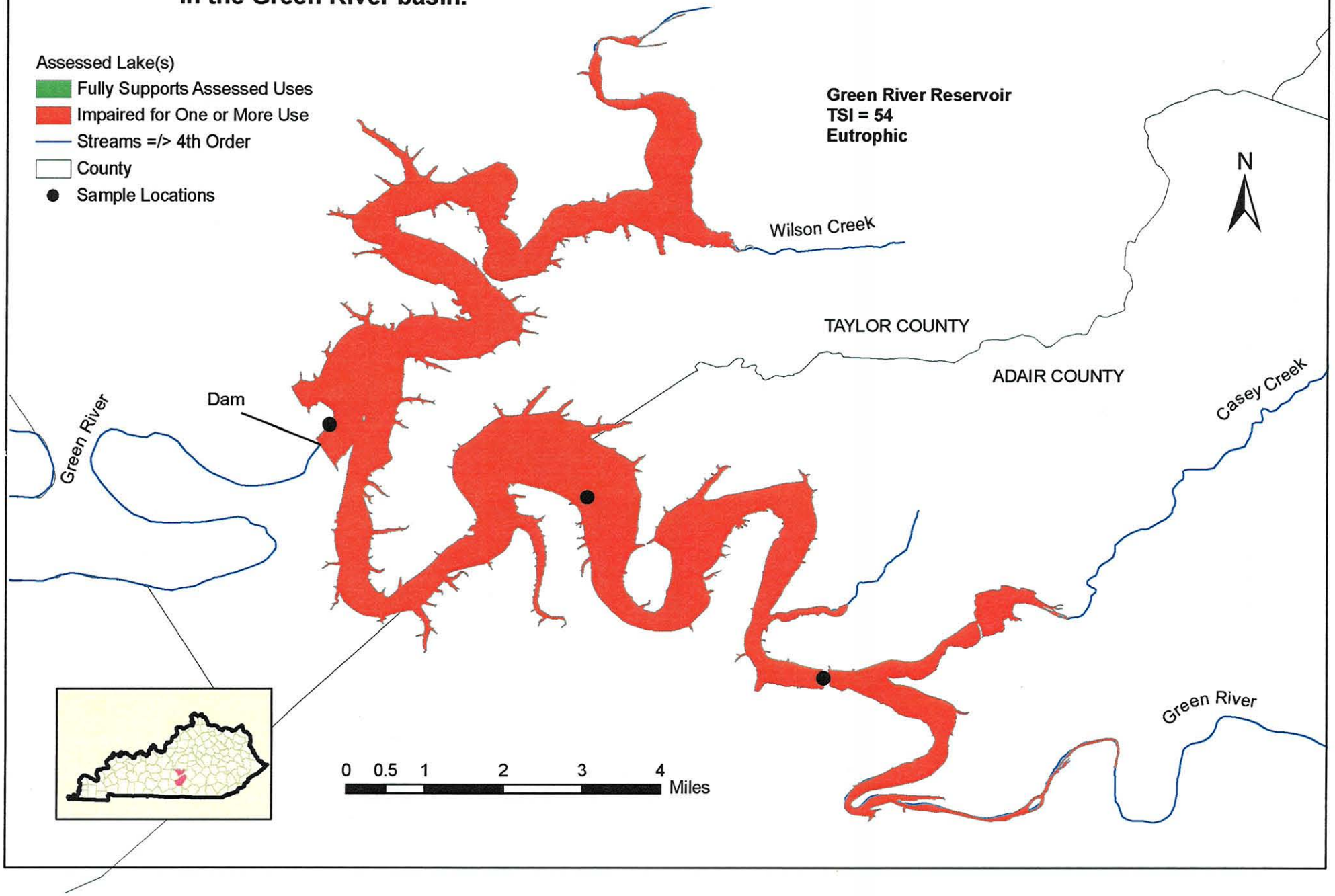


Figure C-19: Monitoring locations, trophic state index and general use support on Lake Malone in the Green River basin.

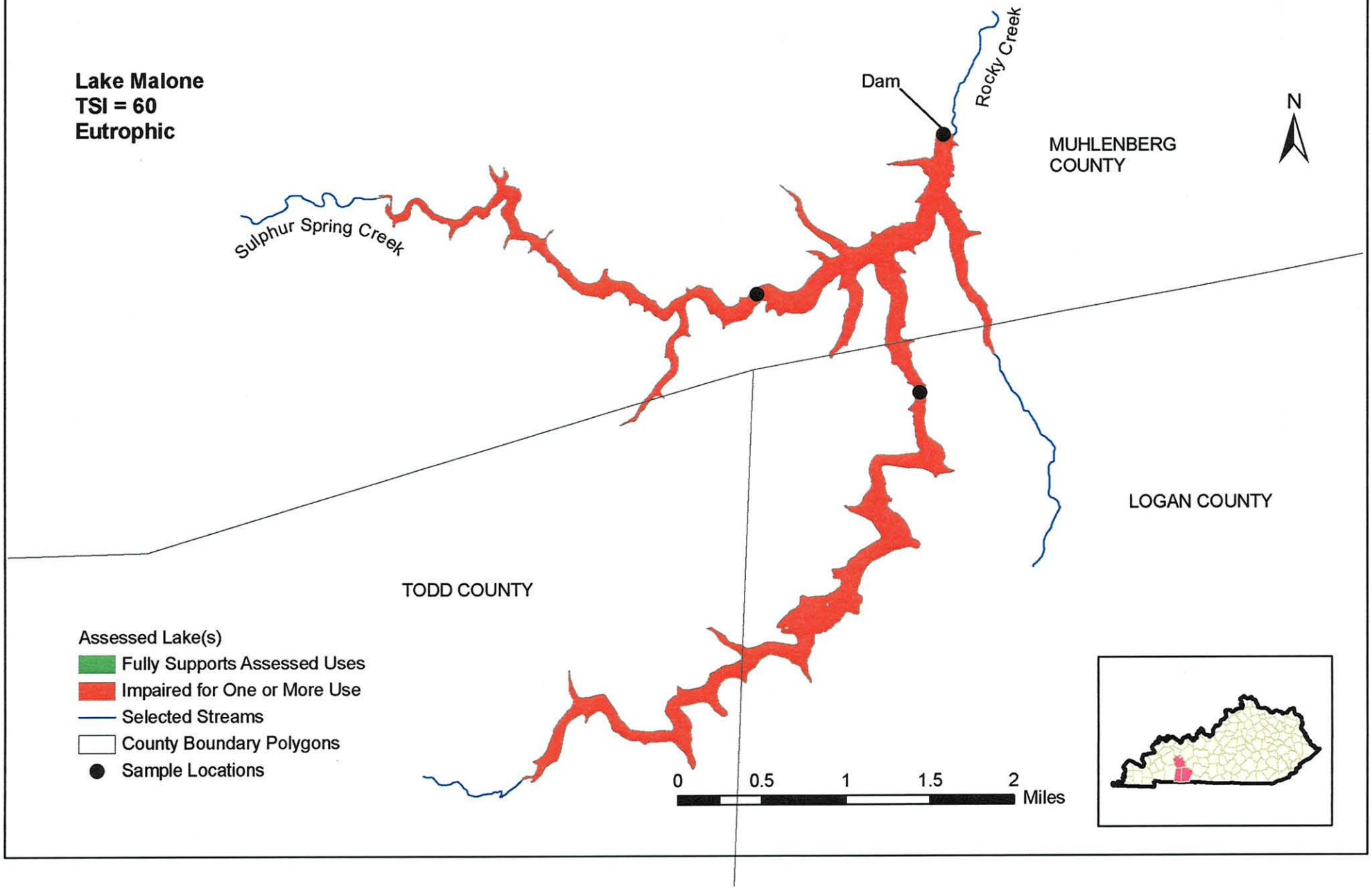


Figure C-20: Monitoring locations, trophic state index and general use support on Carpenter and Kingfisher lakes in the Green River basin.

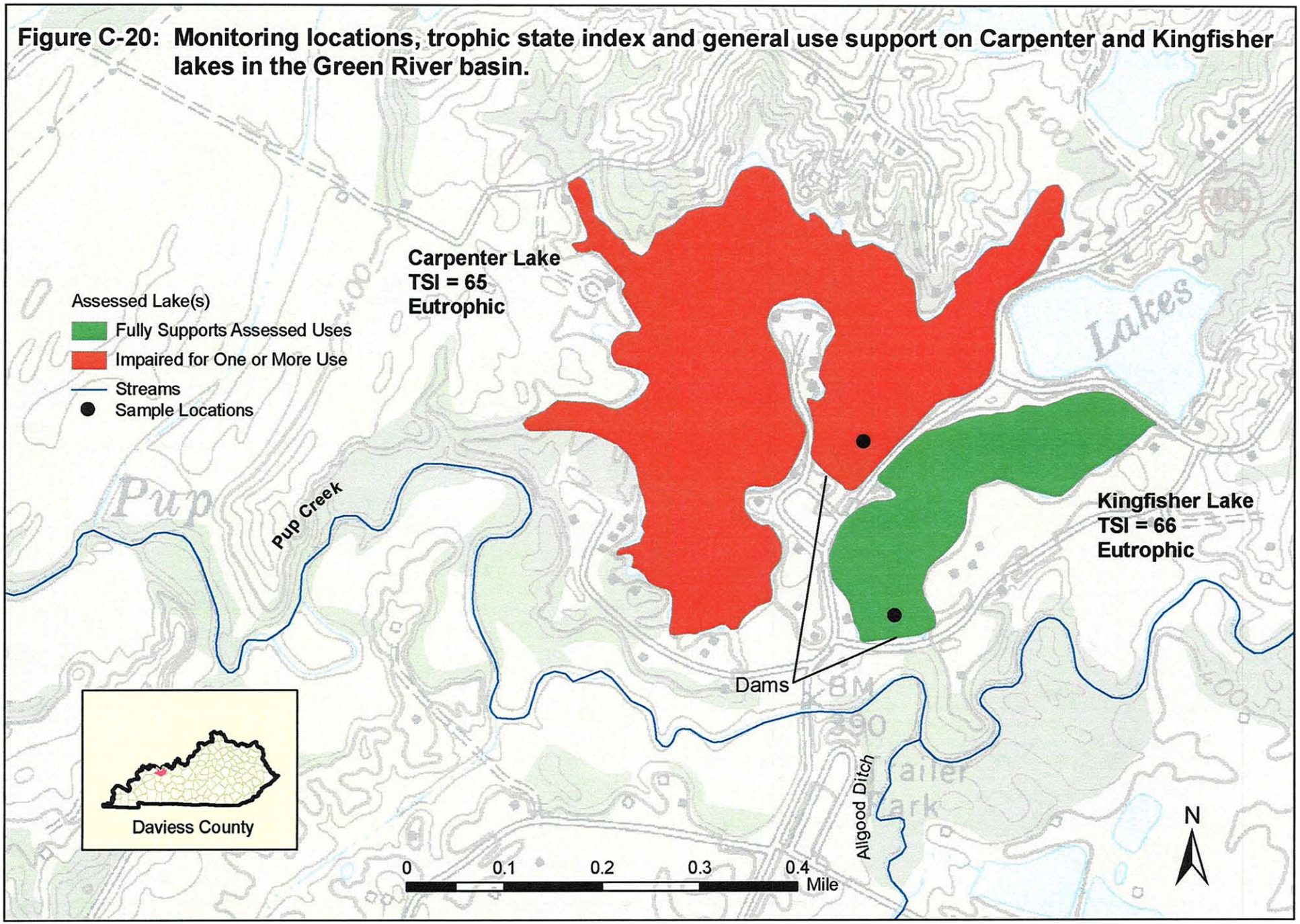


Figure C-21: Monitoring locations, trophic state index and general use support on Spa and Briggs lakes in the Green River basin.

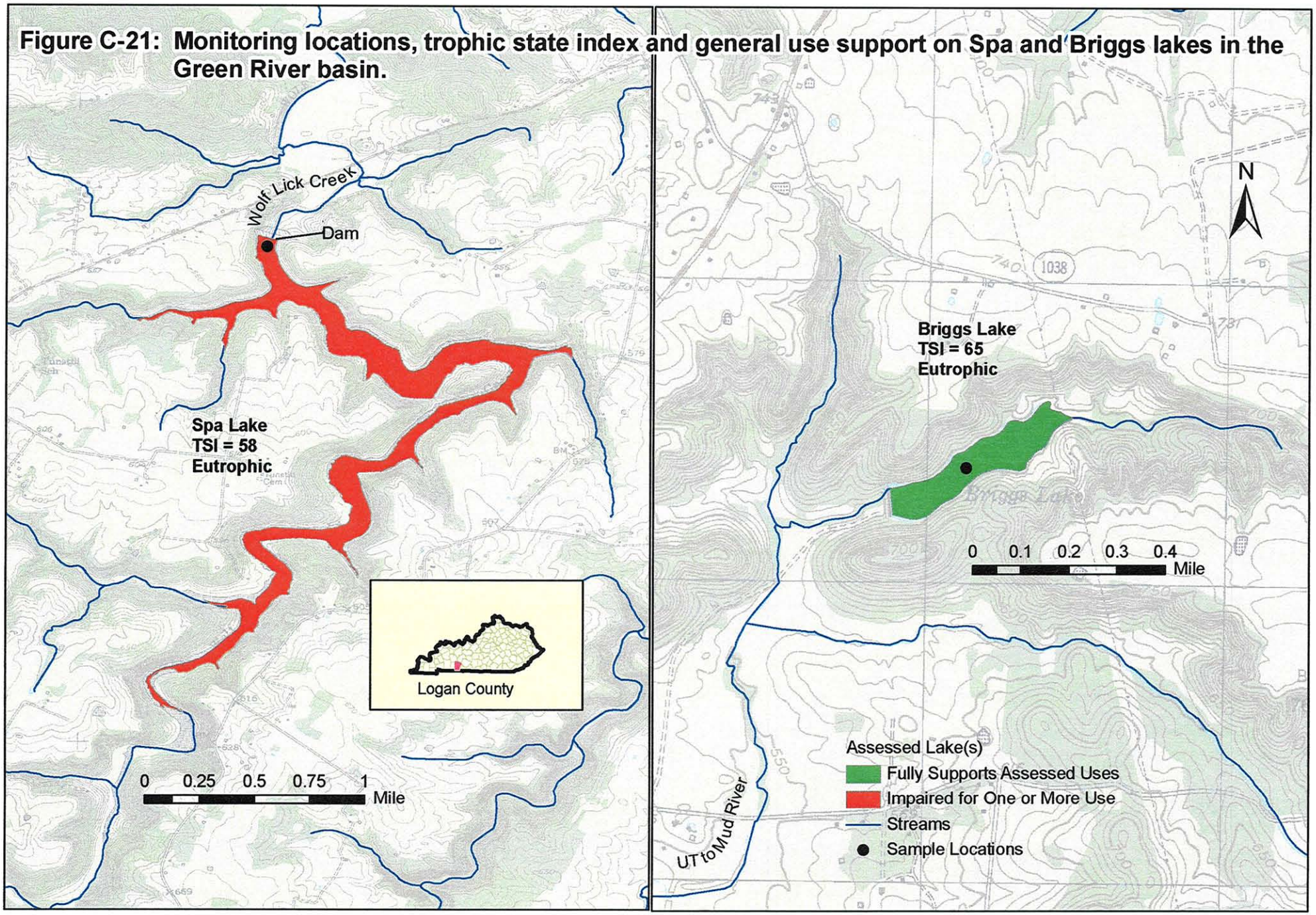


Figure C-22: Monitoring locations, trophic state index and general use support on Campbellsville City Reservoir and Spurlington Lake in the Green River basin.

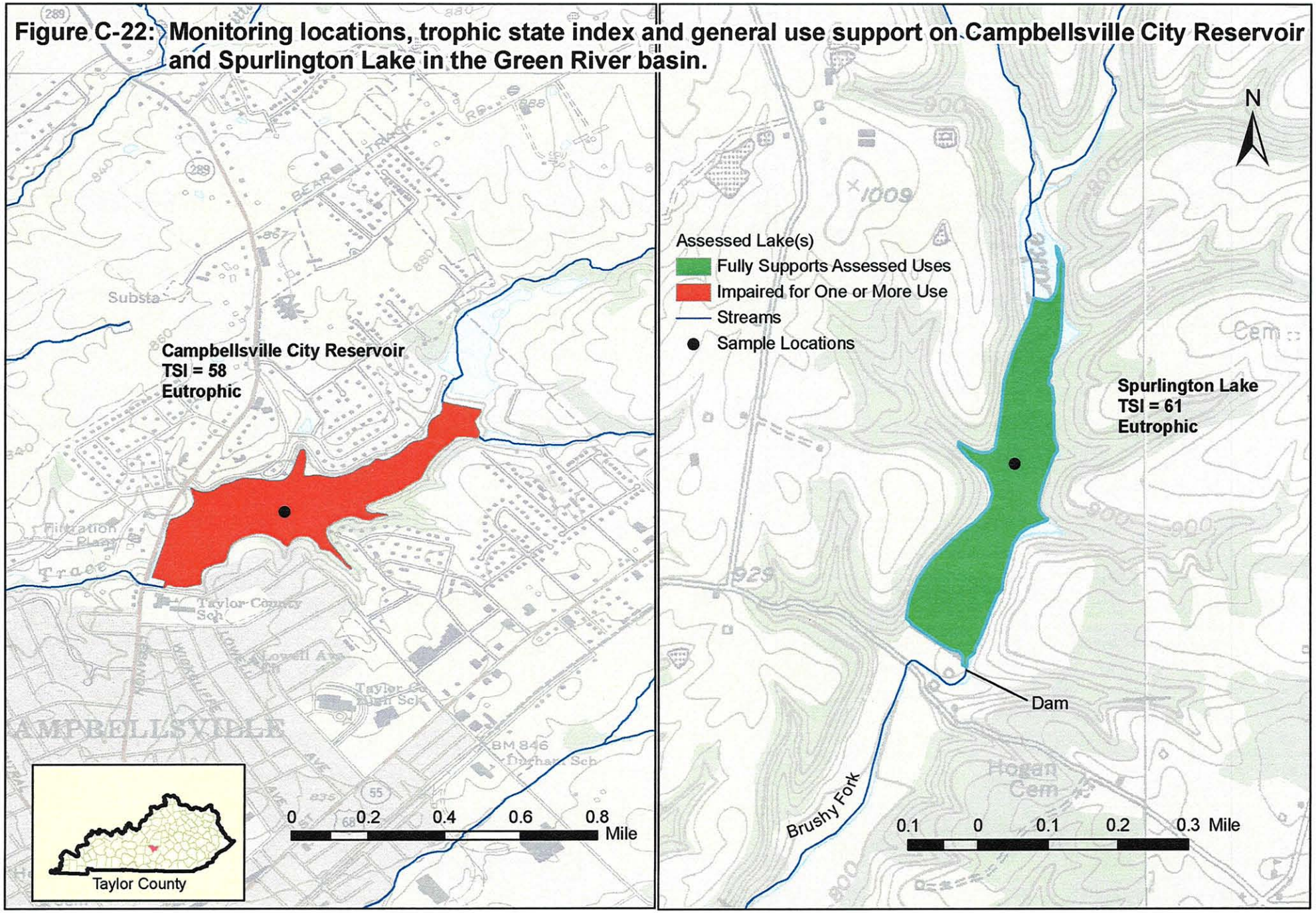


Figure C-23: Monitoring locations, trophic state index and general use support on Freeman and Salem lakes in the Green River basin.

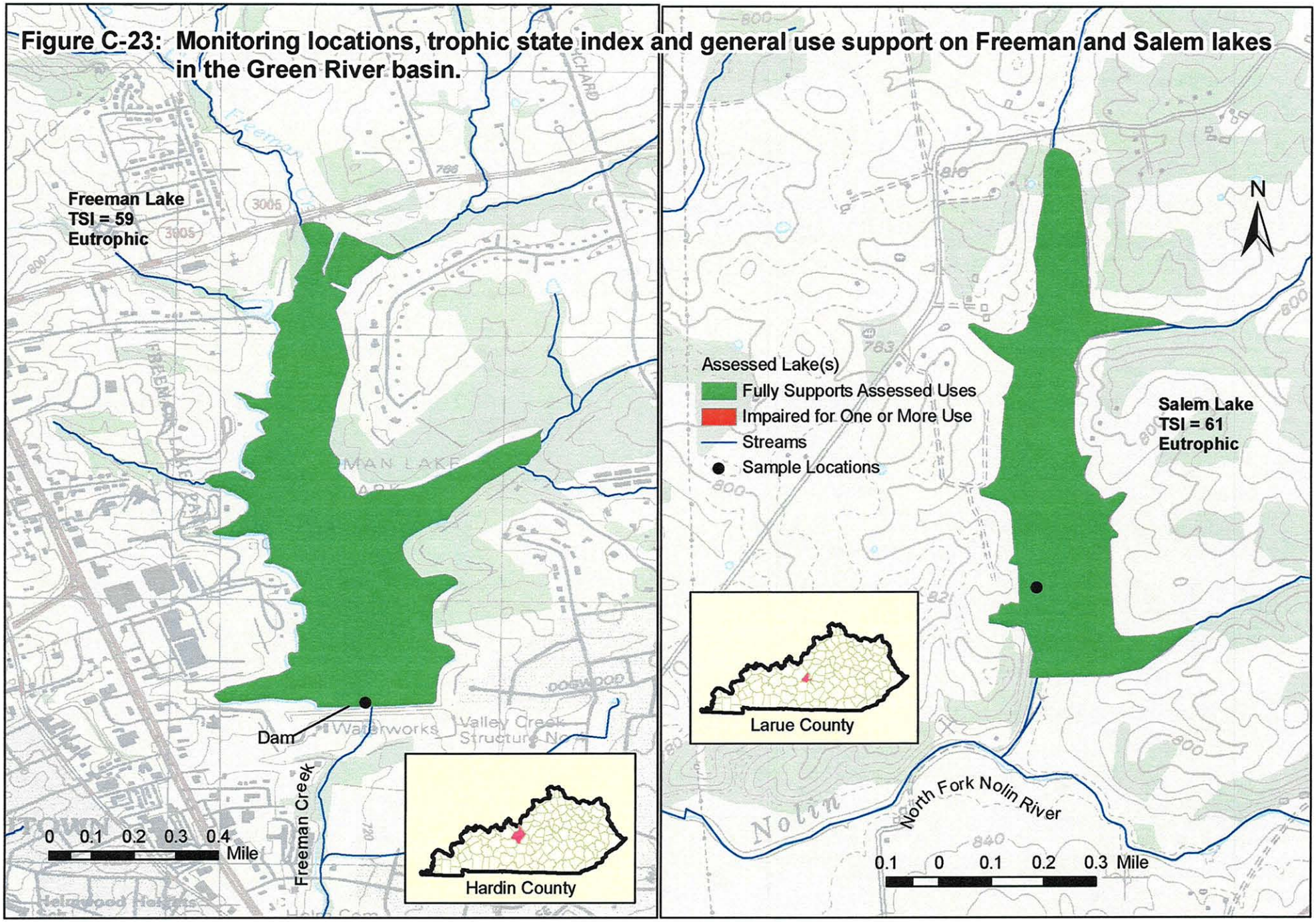
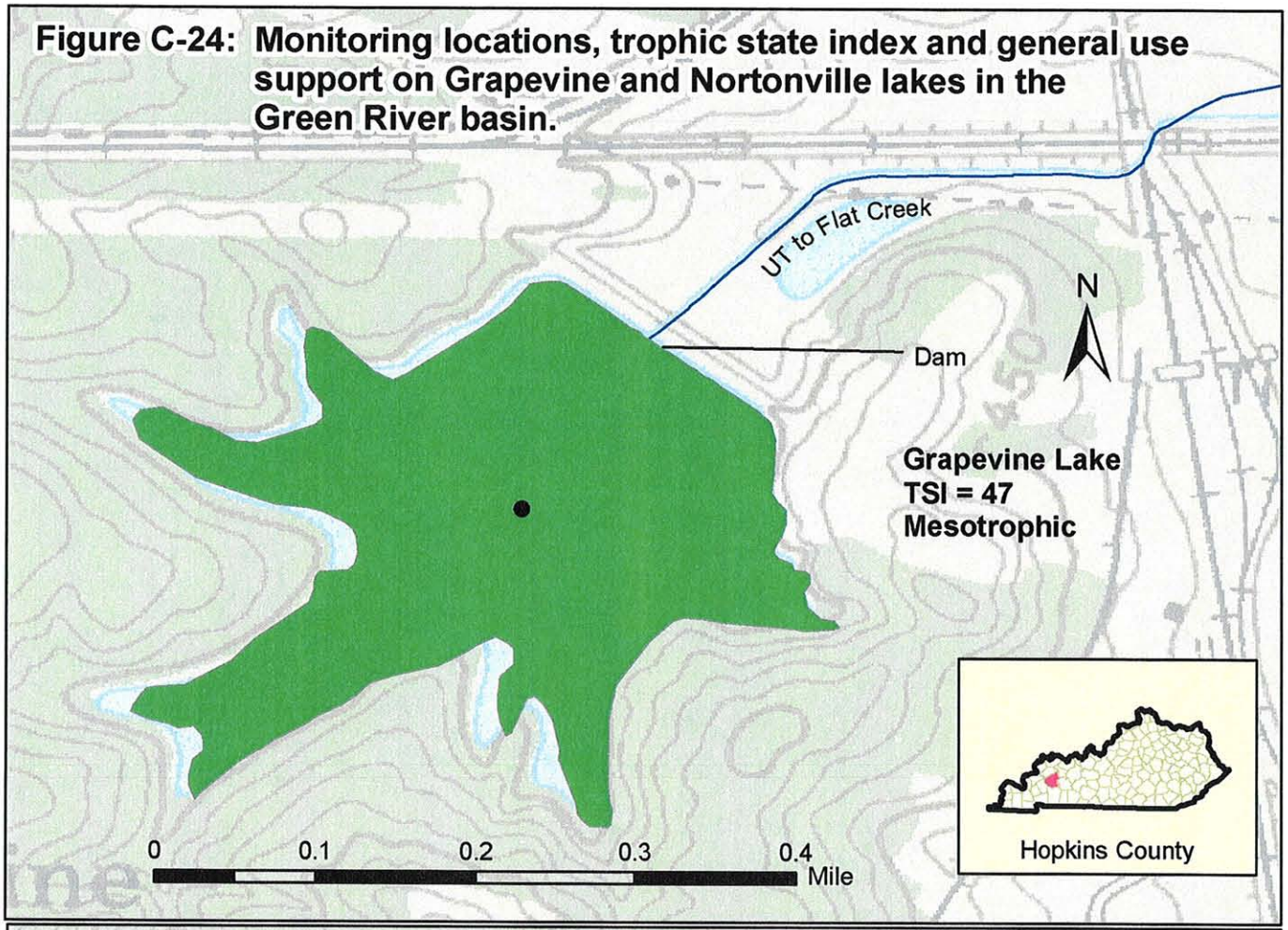


Figure C-24: Monitoring locations, trophic state index and general use support on Grapevine and Nortonville lakes in the Green River basin.



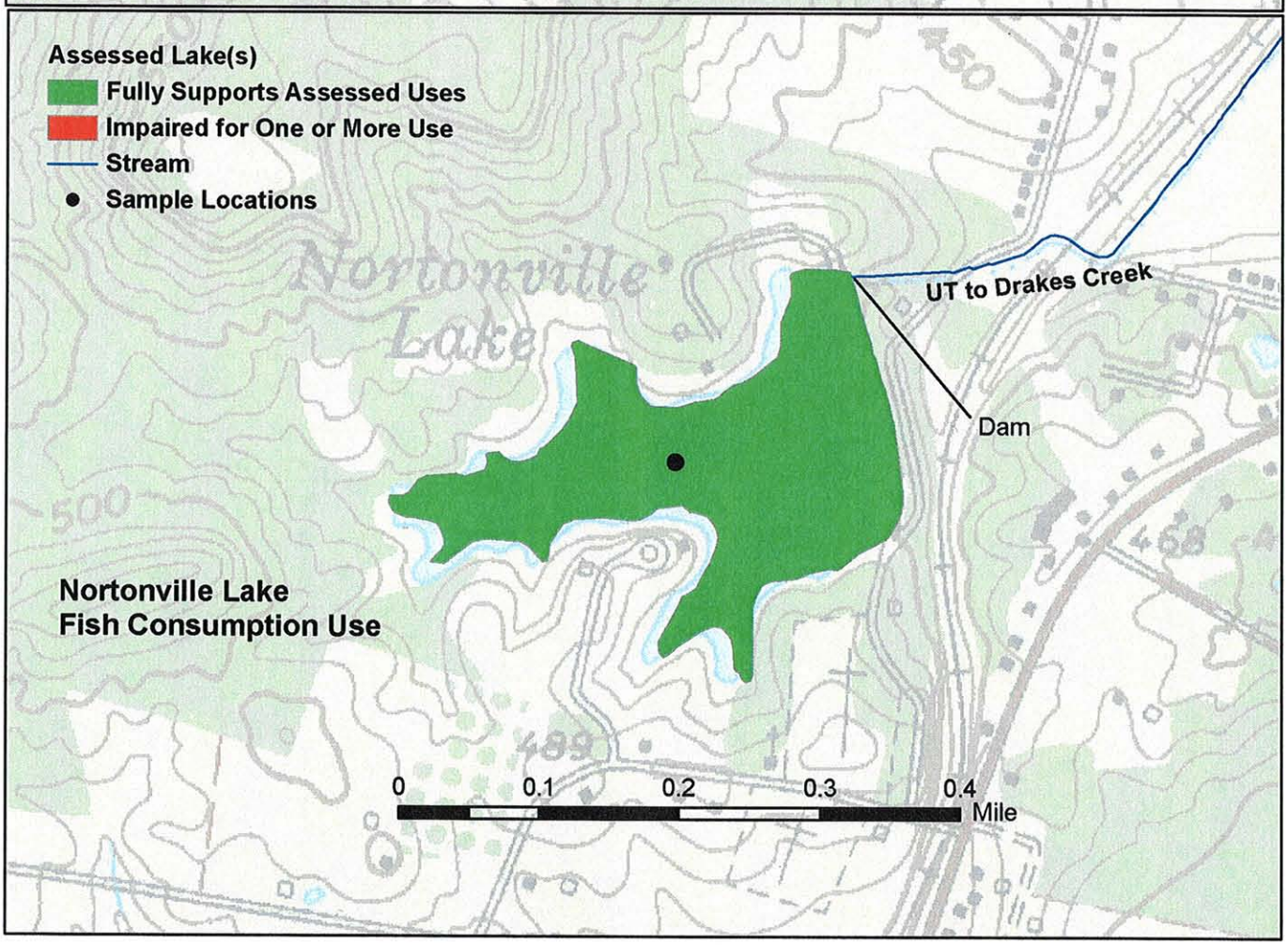
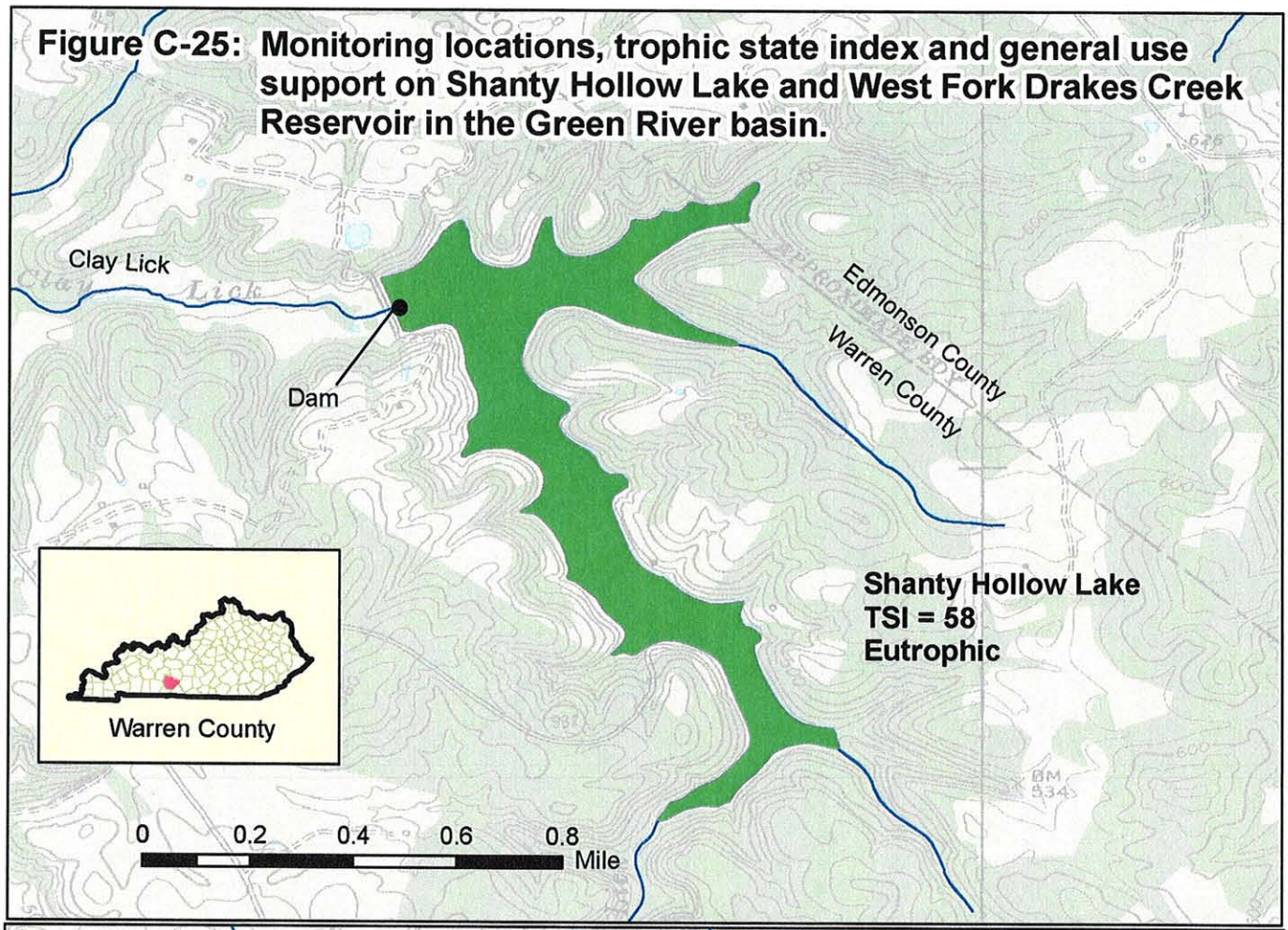


Figure C-25: Monitoring locations, trophic state index and general use support on Shanty Hollow Lake and West Fork Drakes Creek Reservoir in the Green River basin.



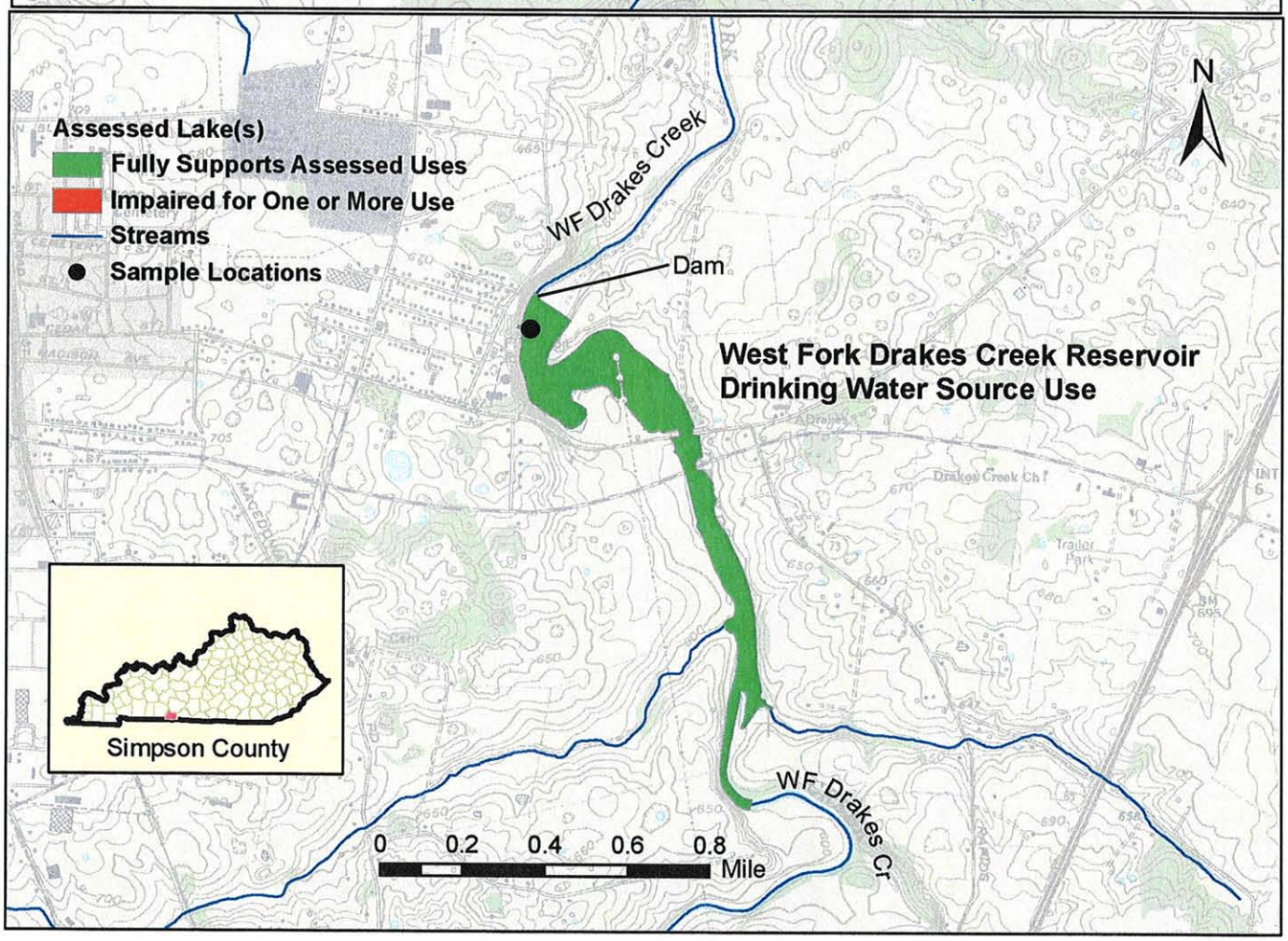
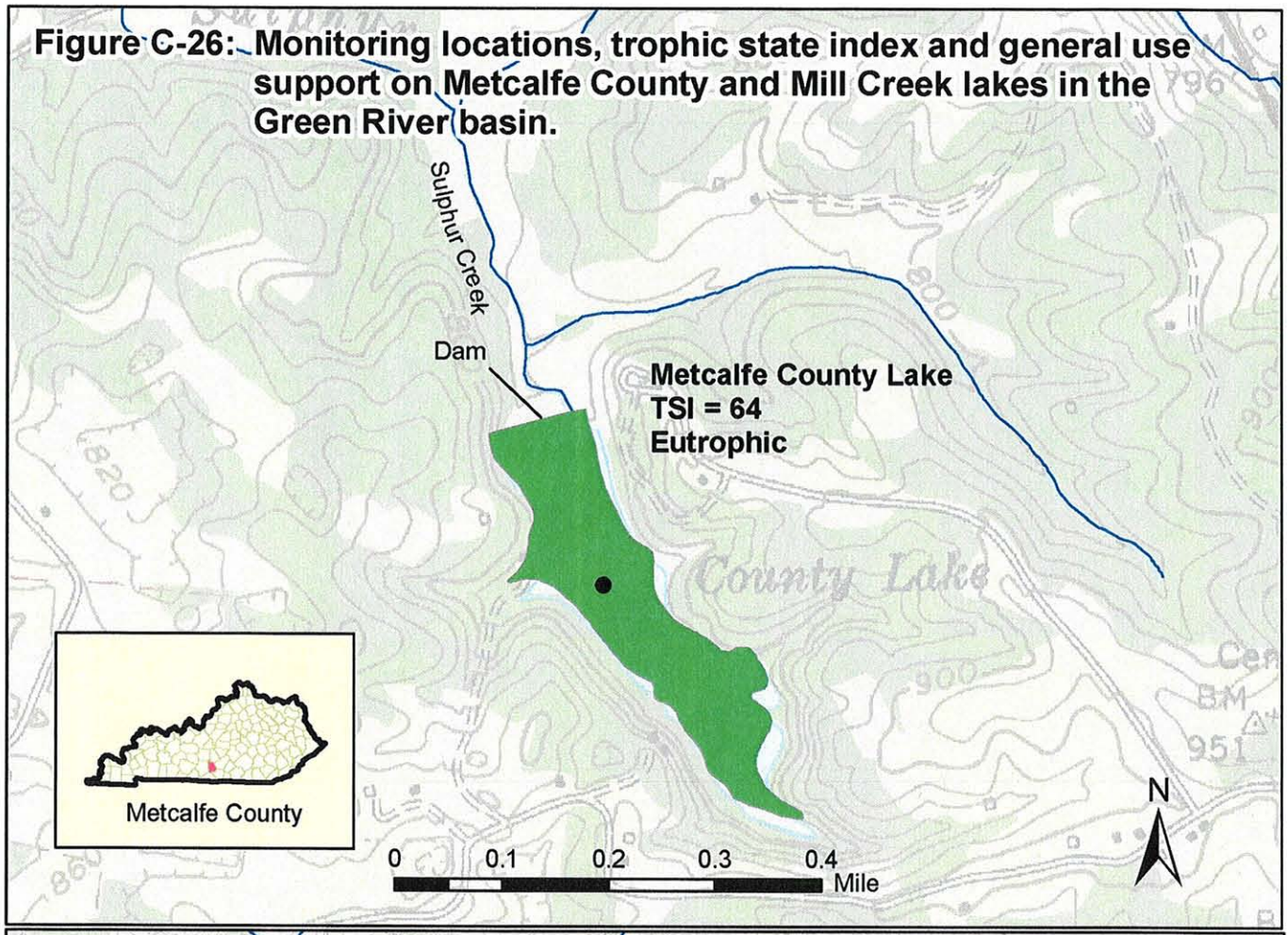


Figure C-26: Monitoring locations, trophic state index and general use support on Metcalfe County and Mill Creek lakes in the Green River basin.



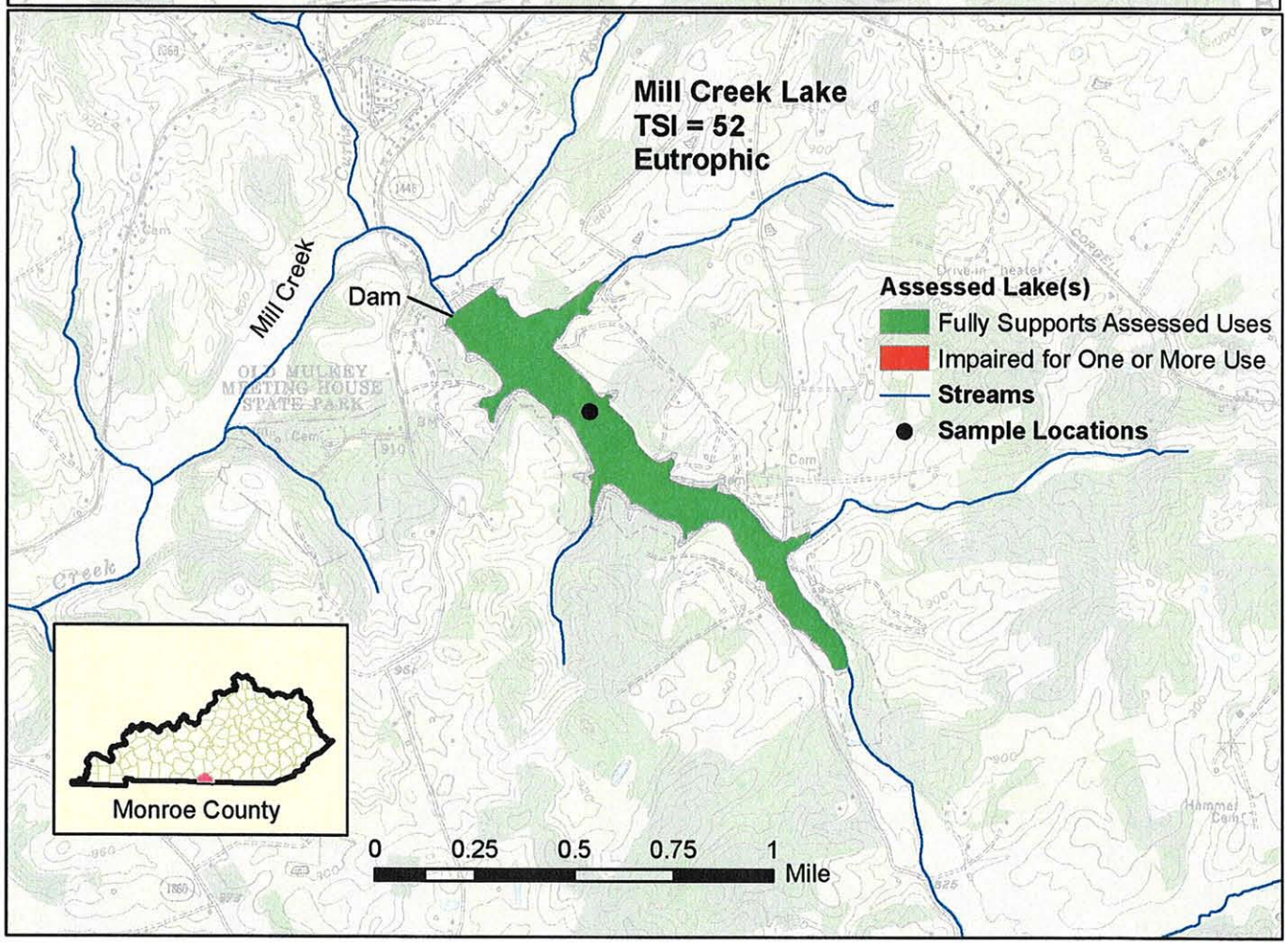
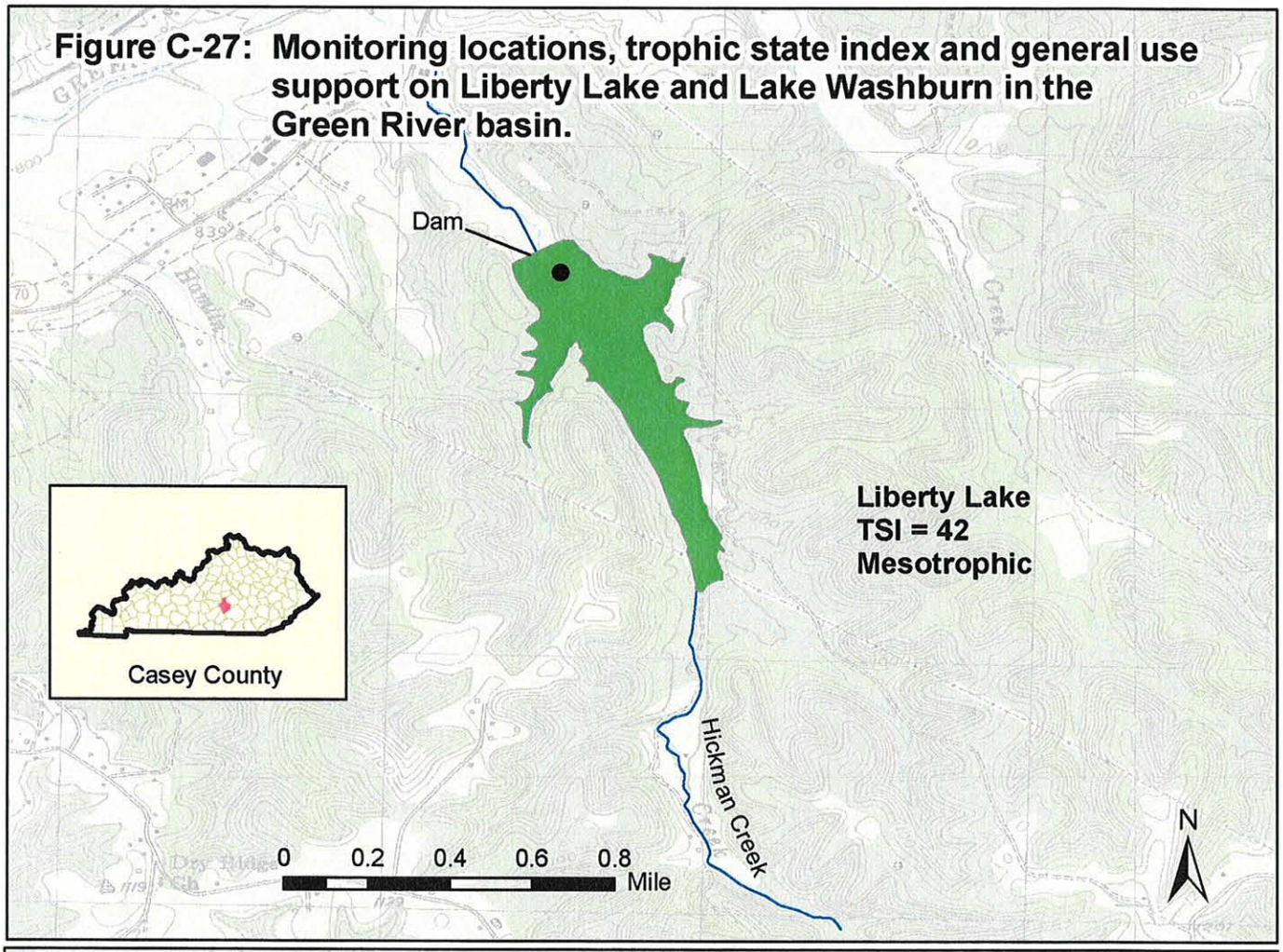


Figure C-27: Monitoring locations, trophic state index and general use support on Liberty Lake and Lake Washburn in the Green River basin.



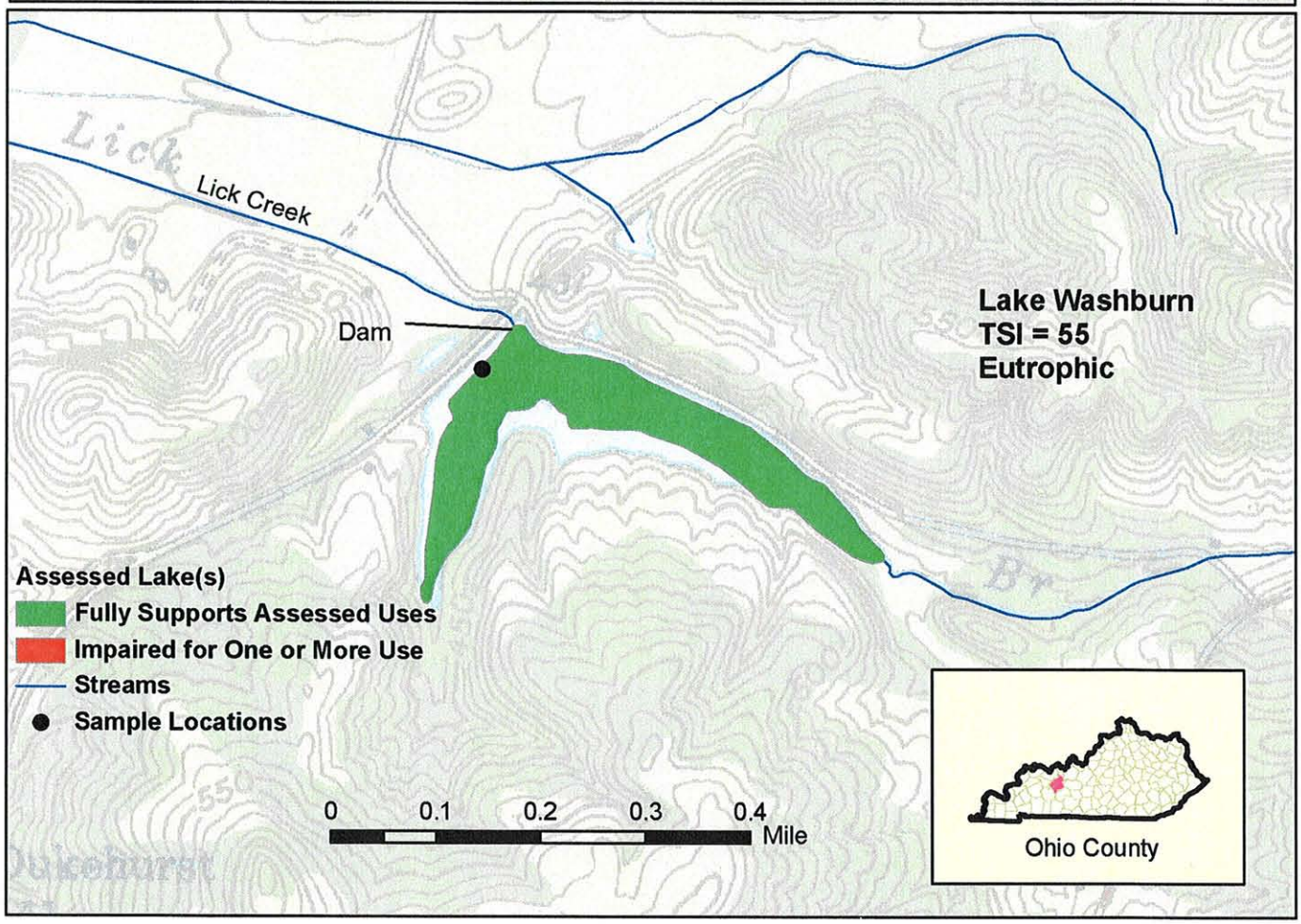
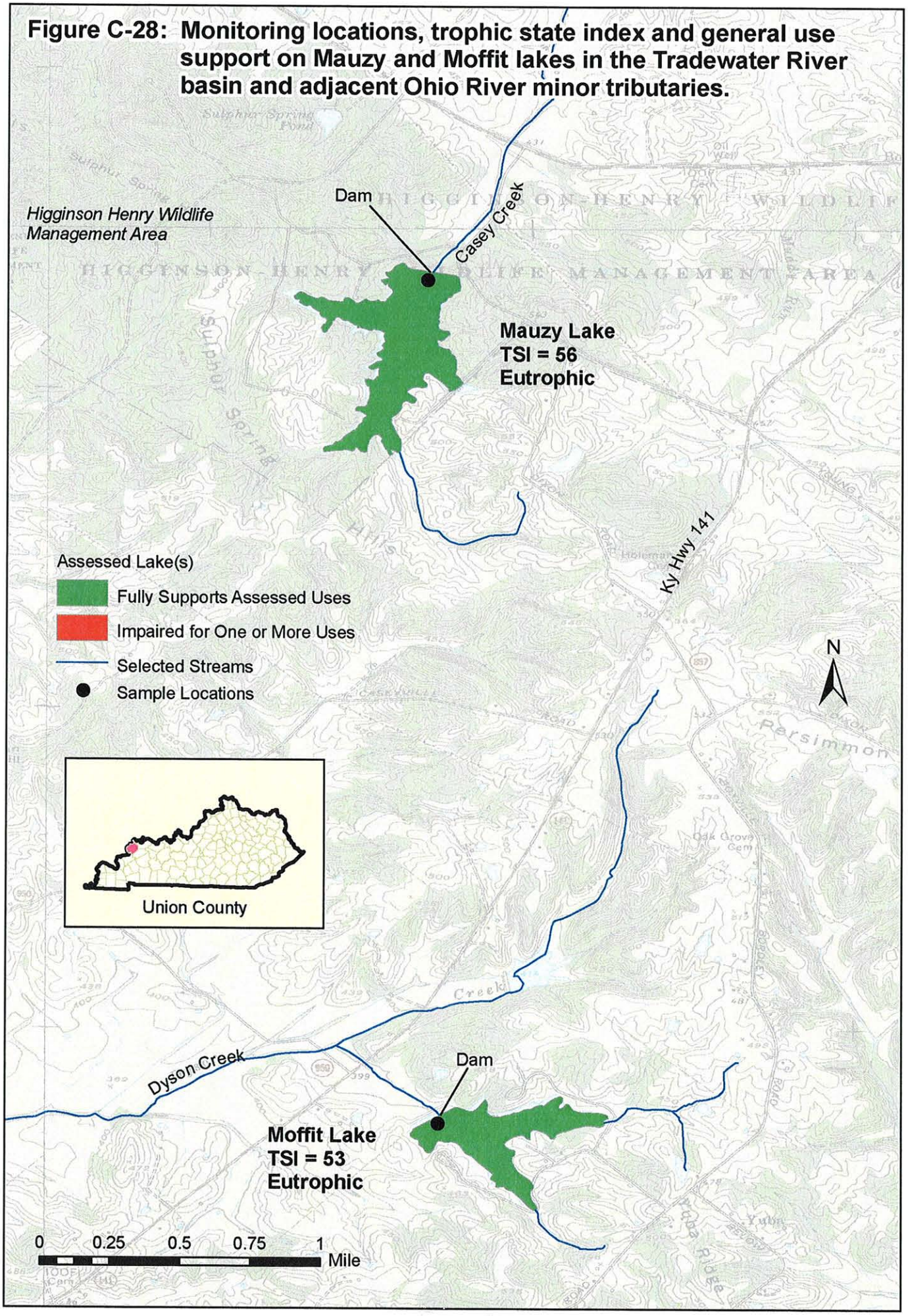


Figure C-28: Monitoring locations, trophic state index and general use support on Mauzy and Moffit lakes in the Tradewater River basin and adjacent Ohio River minor tributaries.



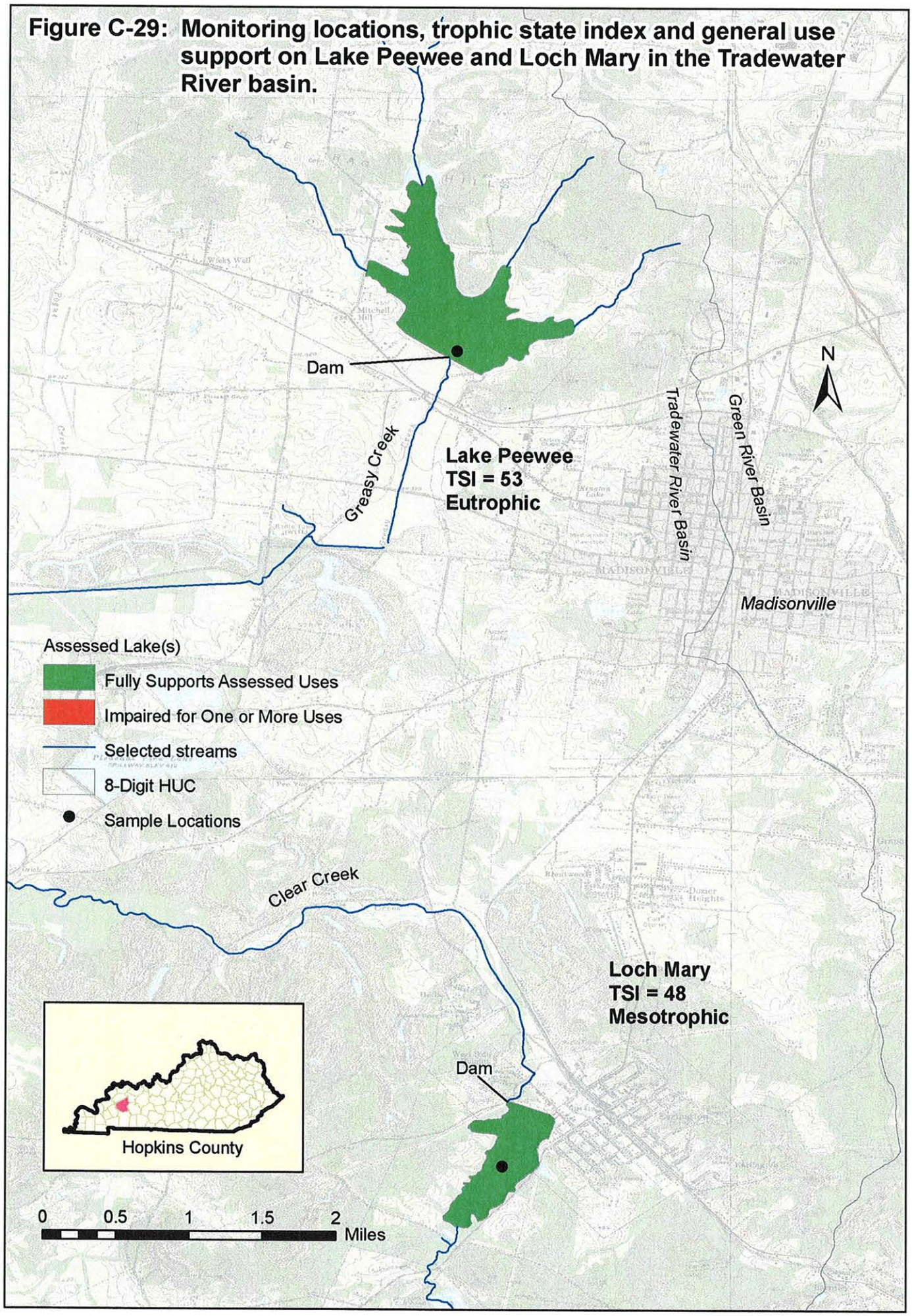


Figure C-29: Monitoring locations, trophic state index and general use support on Lake Peewee and Loch Mary in the Tradewater River basin.

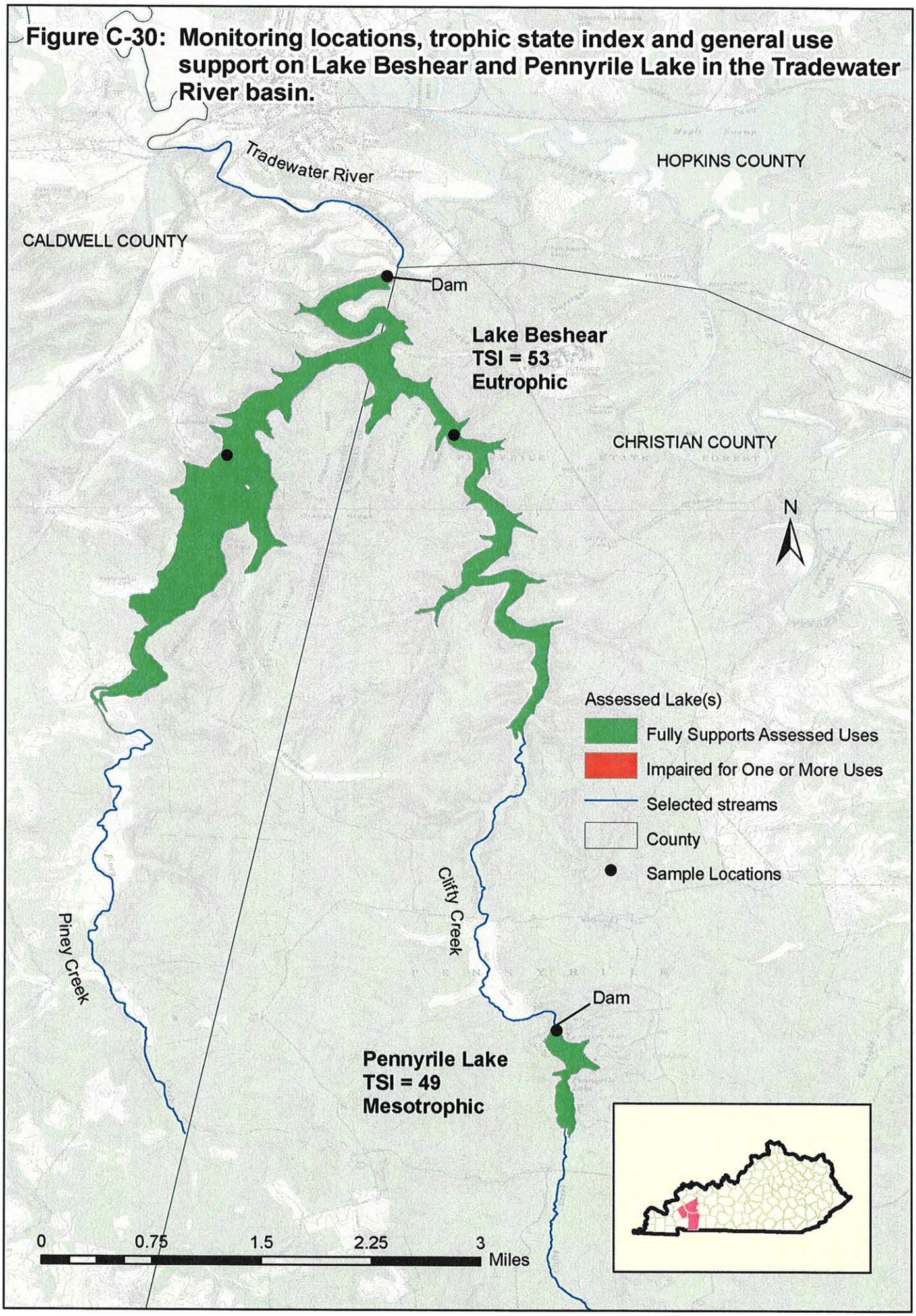


Figure C-30: Monitoring locations, trophic state index and general use support on Lake Beshear and Pennyrile Lake in the Tradewater River basin.

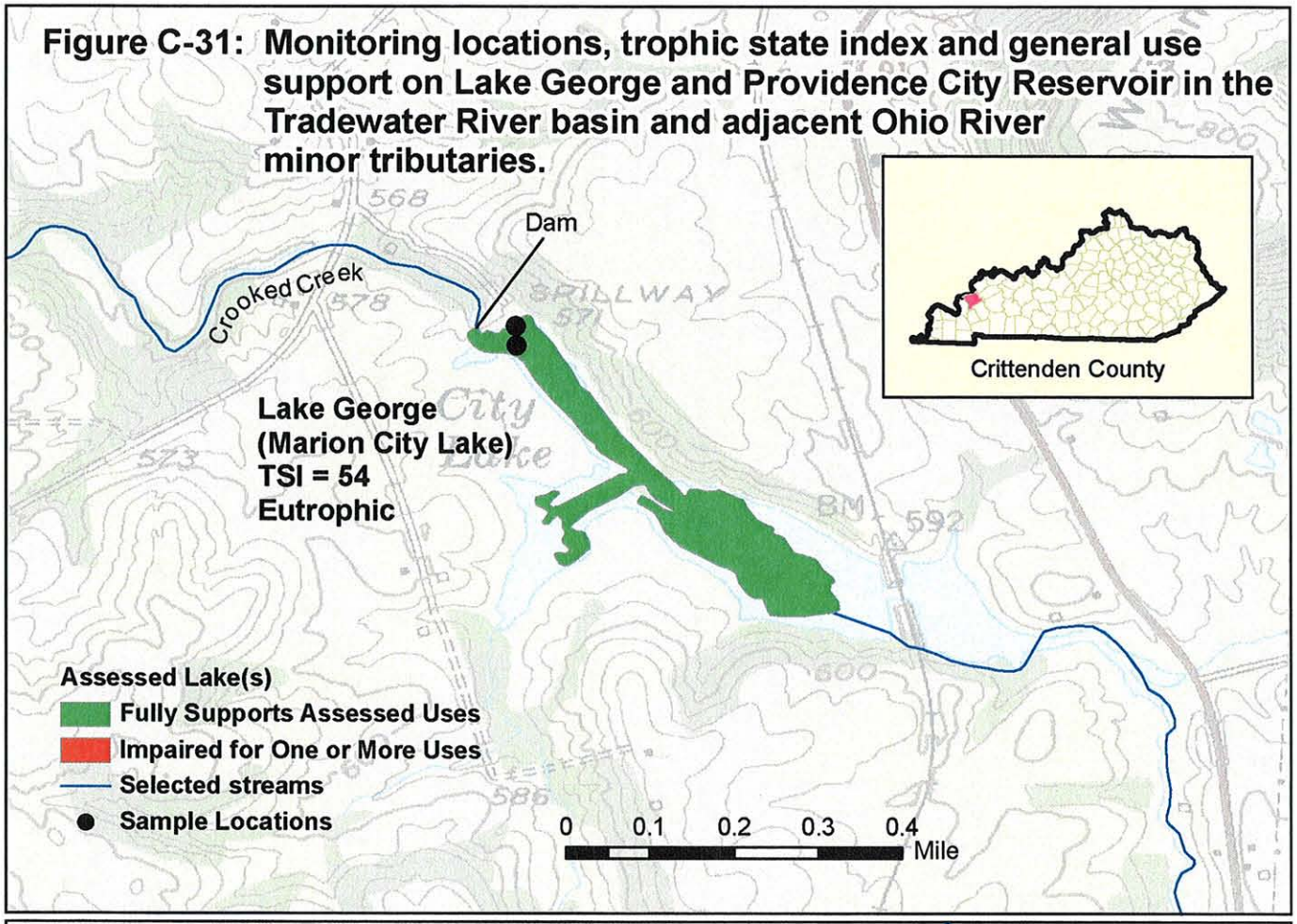
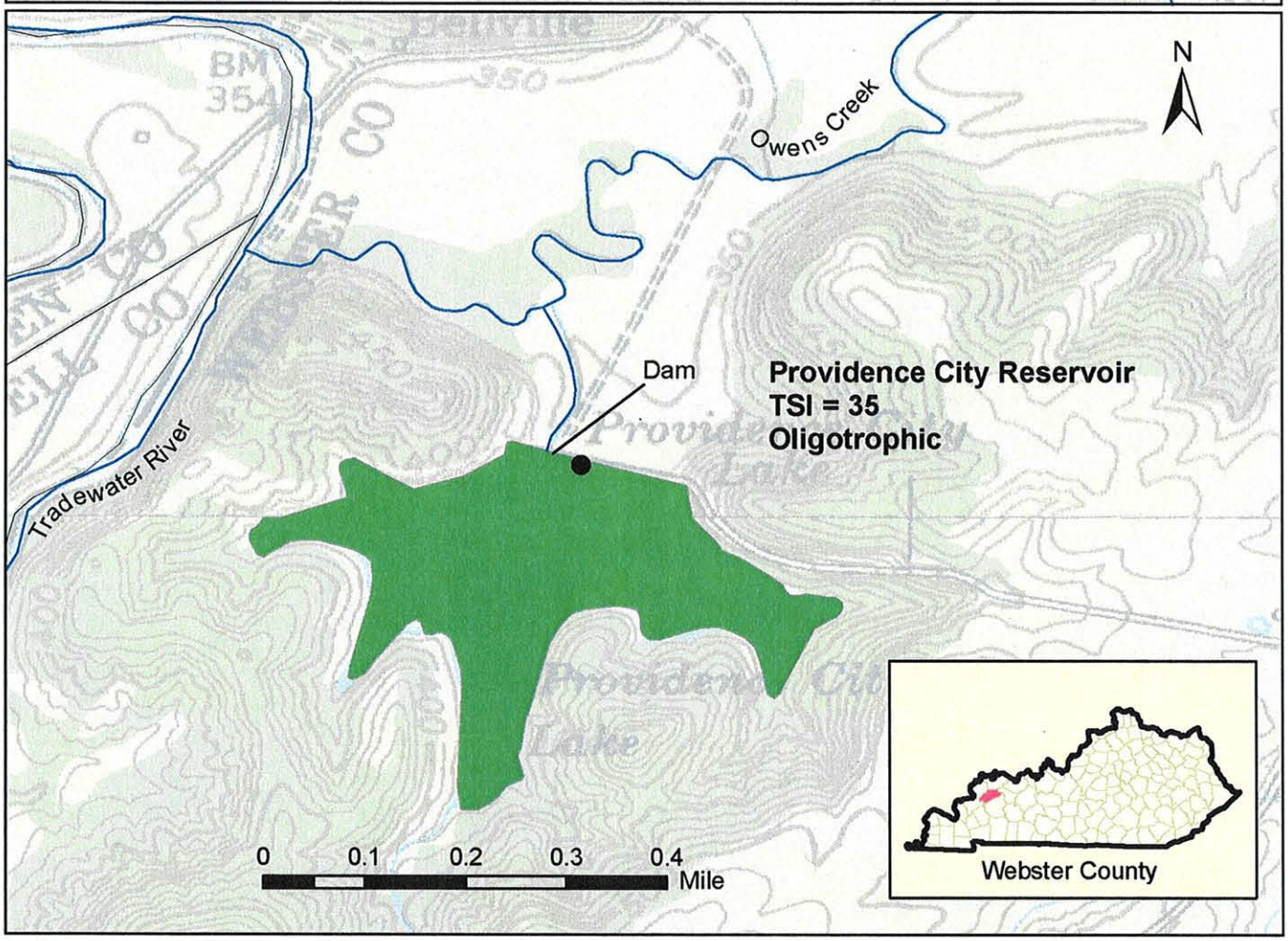



Figure C-31: Monitoring locations, trophic state index and general use support on Lake George and Providence City Reservoir in the Tradewater River basin and adjacent Ohio River minor tributaries.