


Final  
2006 Integrated Report to Congress on the Condition of  
Water Resources in Kentucky

Volume II. 303(d) List of Surface Waters



Kentucky Environmental and  
Public Protection Cabinet  
Division of Water  
April 2007

This report has been approved for release:

  
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4/4/07  
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Date

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## **Summary of the 2006 303(d) List of Impaired Waters**

The 1972 Federal Water Pollution Control Act, commonly known as The Clean Water Act, requires States to assess and report current water quality conditions to Congress biannually. While many agencies and individuals contribute assessment data, the Division of Water (DOW) of the Kentucky Department for Environmental Protection is responsible for Section 305(b) and Section 303(d) reporting requirements for surface waters.

The 2006 Integrated Report (IR) replaces the 305(b) report and 303(d) report previously prepared by DOW. The 305(b) portion of the report (Volume I) lists all water quality assessment results for surface waters (streams and lakes or reservoirs) in Kentucky. The 303(d) portion of the report (Volume II) is a subset of these assessed waters including all waters not supporting one or more designated uses and requiring the development of a Total Maximum Daily Load (TMDL).

Since 1998, Kentucky has monitored surface waters using a five-year rotating watershed management approach in which each of the five major Basin Management Units (BMUs) receives intensive monitoring in sequential years over the five-year cycle. To make the 303(d) list reflective of the current 305(b) assessment results, the 2006 303(d) list contains new listings of impaired waters from assessments made in 2003 through 2005 from the Big Sandy-Little Sandy-Tygarts BMU, the Kentucky River BMU and the Salt-Licking BMU. The 2003 assessment results from the Big Sandy-Little Sandy-Tygarts BMU were reported in the 2004 305(b) report but were not completed in time for the 2004 303(d) report, so these results as well as the 2004 and 2005 assessment results appear for the first time in the 2006 IR. Because the Big Sandy-Little Sandy-Tygarts BMU had not been monitored intensively since the five-year watershed management approach began in 1998, the number of impaired waters reported in this Volume has increased notably over the number reported in the 2004 303(d). However, this increase in impaired waters does not represent a declining trend but instead is a result of increased monitoring efforts in regions that previously had only a few monitoring stations on larger rivers and streams.

In previous 303(d) report submittals, an impaired waterbody or segment of a waterbody was reported along with each individual cause of the impairment; this pairing

of segment and cause is known as a “waterbody/pollutant combination.” In the 2006 IR, the term “cause” has been replaced by the word “impairment.” Another change is all listed waterbody/pollutant combinations are now placed into Category 5A, which is synonymous with the 303(d) list and contains all impaired waters requiring a TMDL. Category 4C is reserved for nonsupporting waters where no pollutant can be identified; instead the impairment is caused by pollution. Examples of pollution would be a stream with a biological community stressed by drought or a lake that contains exotic aquatic plants, such as Eurasian water milfoil. Waters placed in Category 4C do not require a TMDL.

Kentucky’s impaired waters now total 5163 miles on 910 stream segments and 98,391 acres on 45 lakes and reservoirs. Table 1 summarizes these impairments by BMU.

**Table 1. Summary of Impairments by BMU**

BMU	Impaired Streams		Impaired Lakes	
	Stream Miles	Number of Segments	Lake Acres	Number of Lakes/Reservoirs
Kentucky	1101	166	6456	12
Salt/Licking	1321	205	12365	13
Four Rivers	852	200	51599	7
Green/Tradewater	1108	198	24220	10
Sandy/Tygarts	782	141	3751	3

There are 280 waterbody/pollutant combinations for which a TMDL is currently under development. While the DOW is responsible for submitting TMDLs to EPA, many are being developed by other agencies, including the Ohio River Valley Water Sanitation Commission (ORSANCO), universities, consultants, and municipalities. The DOW is committed to beginning TMDL development on at least 100 waterbody/pollutant combinations annually over the next five years; thus the pace of TMDL development is expected to significantly increase.



To date, DOW has submitted and EPA has approved TMDLs for 76 waterbody/pollutant combinations. EPA has also approved delisting requests for 179 waterbody/pollutant combinations. Delisting approval is granted when DOW has demonstrated that a listed segment is no longer impaired by a specific pollutant. When delisting approval is granted, a TMDL is no longer required for the specific waterbody/pollutant combination, although the segment may still be listed as impaired for other pollutants.

Accompanying the 303(d) list is the assessment methodology from Section 3.2 of Volume I of the IR. This section describes the assessment process for the various designated uses. Further discussion also is provided of the categories into which assessed waters are placed and the difference between pollutants and pollution.

Unless otherwise stated, DOW identifies listed segments as first priority for TMDL development if any impairment causes the segment to be in nonsupport. Other listed segments that are in partial support are identified as second priority.

## Chapter 5. Status of TMDLs Under Development Prior to 2006

### 5.1. Kentucky River Basin Unit

#### 5.1.1. Benson Creek Watershed Nutrient and Sediment TMDLs

Stream Name	County	River Miles	Pollutant
Benson Cr. into KY River	Franklin	0.0 to 4.6	Sedimentation/siltation
Benson Cr. into KY River	Franklin	4.6 to 6.7	Sedimentation/siltation
Benson Cr. into KY River	Franklin	6.7 to 13.4	Sedimentation/siltation
Goose Cr. Into Benson Cr.	Shelby	0.0 to 1.8	Sedimentation/siltation
N. Benson Cr. into Benson Cr.	Franklin	0.8 to 2.0	Sedimentation/siltation
N. Fk. N. Benson Creek	Franklin	0.0 to 2.2	Sedimentation/siltation
Benson Cr. into KY River	Franklin	4.6 to 6.7	Nutrient/eutrophication biological indicators
Benson Cr. into KY River	Franklin	6.7 to 13.4	Nutrient/eutrophication biological indicators
Goose Cr. into Benson Cr.	Shelby	1.9 to 4.2	Impairment unknown
N. Benson Cr. into Benson Cr.	Franklin	0.8 to 2.0	Organic enrichment (sewage) biological indicators

The Kentucky Division of Water (KDOW) has collected nutrient and suspended sediment data on these streams. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated. KDOW will determine which stream morphology parameters are most important to complete the data collection for the sediment TMDL development and will develop the sediment TMDL once data collection is completed.

#### 5.1.2. Boone Creek/Baughman Fork Nutrient, Organic Enrichment, and Pathogen TMDLs

Stream Name	County	River Miles	Pollutant
Boone Creek into KY River	Fayette	0.0 to 7.4	Organic enrichment (sewage) biological indicators
Boone Creek into KY River	Fayette	7.4 to 12.6	Nutrient/eutrophication biological indicators
Boone Creek into KY River	Fayette	7.4 to 12.6	Pathogens

Stream Name	County	River Miles	Pollutant
Baughman Fork into Boone Cr.	Fayette	0.0 to 2.7	Nutrient/eutrophication biological indicators
Baughman Fork into Boone Cr.	Fayette	0.0 to 2.7	Organic enrichment (sewage) biological indicators

KDOW completed sample collection during 2004. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated.

### 5.1.3. Cane Run into North Elkhorn Creek Organic Enrichment TMDLs 2006

Stream Name	County	River Miles	Pollutant
Cane Run into N. Elkhorn Cr.	Scott	3.0 to 9.6	Pathogens
Cane Run into N. Elkhorn Cr.	Fayette	9.6 to 17.4	Pathogens

The Kentucky Water Resources Research Institute (KWRRRI) is developing the pathogen TMDLs for Cane Run. Completion of these TMDLs has been delayed due to the extensive karst influences in the watershed that have necessitated more advanced modeling efforts and subsequent data collection.

### 5.1.4. Eagle Creek Watershed Pathogens TMDL 2006

Stream Name	County	River Miles	Pollutant
Eagle Creek	Owen	15.3 to 28.5	Pathogens

An EPA Region 4 104(b)3 grant was awarded for TMDL development for pathogens in this watershed. The TMDL is being developed by The Tracy Farmer Center for the Environment. Public notice is anticipated for 2007.

### 5.1.5. Elkhorn Creek into Kentucky River

Stream Name	County	River Miles	Pollutant
Elkhorn Creek into KY River	Franklin	0.0 to 18.2	Pathogens

The KWRRRI received PRIDE funding to collect pathogen data on this stream segment. The KDOW will use this data to develop the pathogen TMDL or delist the segment if no impairment is found. A draft TMDL is anticipated for 2008.

**5.1.6. Herrington Lake Nutrient TMDL**

Stream Name	County	Lake Acres	Pollutant
Herrington Lake	Garrard	2940	Dissolved oxygen
Herrington Lake	Garrard	2940	Nutrient/eutrophication biological indicators

Additional sampling on Herrington Lake will be performed during 2006. A draft TMDL is anticipated for 2007.

**5.1.7. Hickman Creek Watershed Nutrient, Organic Enrichment and Pathogen TMDLs**

Stream Name	County	River Miles	Pollutant
East Hickman Cr. into Hickman Cr.	Fayette	4.2 to 10.2	Pathogens
East Hickman Cr. into Hickman Cr.	Fayette	4.2 to 10.2	Nutrient/eutrophication biological indicators
East Hickman Cr. into Hickman Cr.	Fayette	12.6 to 14.0	Pathogens
Hickman Creek into KY River	Jessamine	0.0-6.0	Nutrient/eutrophication biological indicators
Hickman Creek into KY River	Jessamine	6.0 to 25.5	Nutrient/eutrophication biological indicators
West Hickman Cr. into Hickman Cr.	Jessamine	0.0 to 3.0	Organic enrichment (sewage) biological indicators
West Hickman Cr. into Hickman Cr.	Jessamine	0.0 to 3.0	Pathogens
West Hickman Cr. into Hickman Cr.	Jessamine	3.0 to 8.6	Organic enrichment (sewage) biological indicators
West Hickman Cr. into Hickman Cr.	Jessamine	3.0 to 8.6	Sedimentation/siltation

KDOW has collected nutrient and suspended sediment data on these streams. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated. KDOW will determine which stream morphology parameters are most important to complete the data collection for the sediment TMDL development and will develop the sediment TMDL once data collection is completed.

### 5.1.8. Lower Howard Nutrient and Organic Enrichment TMDL

Stream Name	County	River Miles	Pollutant
Lower Howard Cr. into KY River	Clark	2.7 to 6.2	Nutrient/eutrophication biological indicators
Lower Howard Cr. into KY River	Clark	2.7 to 6.2	Organic enrichment (sewage) biological indicators

KDOW completed sample collection during 2004. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated.

### 5.1.9. McConnell Run Nutrient and Sedimentation TMDL

Stream Name	County	River Miles	Pollutant
McConnell Run into N. Fk. Elkhorn Cr.	Scott	0.0 to 4.4	Nutrient/eutrophication biological indicators
McConnell Run into N. Fk. Elkhorn Cr.	Scott	0.0 to 4.4	Sedimentation/siltation

KDOW has collected nutrient and suspended sediment data on these streams. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated. KDOW will determine which stream morphology parameters are most important to complete the data collection for the sediment TMDL development and will develop the sediment TMDL once data collection is completed.

### 5.1.10. Pathogen TMDL Development

Stream Name	County	River Miles	Pollutant
Cane Creek into Red River	Powell	0.0 to 3.1	Pathogens
North Elkhorn Cr into Elkhorn Creek	Fayette	66.0 to 73.8	Pathogens

KDOW collected E. coli data during the primary contact recreation season of 2005. Additional data was collected for North Elkhorn during 2006. A draft pathogen TMDL is anticipated for Cane during 2006 and North Elkhorn during 2007.

**5.1.11. Potter Fork Organic Enrichment TMDL**

Stream Name	County	River Miles	Pollutant
Potter Fork into Boone Cr.	Letcher	0.0 to 4.4	Organic enrichment (sewage) biological indicators

KDOW completed sample collection during 2004. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated.

**5.1.12. South Elkhorn Creek/Town Branch/Wolf Run Pathogen TMDL**

Stream Name	County	River Miles	Pollutant
South Elkhorn Cr. into Elkhorn Cr.	Fayette	16.6 to 34.5	Pathogens
Town Br. into South Elkhorn Cr.	Fayette	0.0 to 12.1	Pathogens
Wolf Run into Town Br.	Fayette	0.0 to 4.1	Pathogens

The Kentucky Water Resources Research Institute is developing the pathogens TMDL for South Elkhorn, Town Branch and Wolf Run. A draft TMDL has been submitted to KDOW and revisions will be made prior to public notice. Public Notice is anticipated for early Spring 2007.

**5.1.13. South Elkhorn Creek/Town Branch/Wolf Run Nutrient and Organic Enrichment TMDL**

Stream Name	County	River Miles	Pollutant
South Elkhorn Cr. into Elkhorn Cr.	Fayette	16.6 to 34.5	Nutrient/eutrophication biological indicators
Town Br. into South Elkhorn Cr.	Fayette	0.0 to 11.5	Nutrient/eutrophication biological indicators
Town Br. into South Elkhorn Cr.	Fayette	0.0 to 11.5	Organic enrichment (sewage) biological indicators
Wolf Run into Town Br.	Fayette	0.0 to 4.1	Nutrient/eutrophication biological indicators

As part of a 104(b)3 contract, the Kentucky Water Resources Research Institute is developing the TMDL for South Elkhorn and Town Branch. Since the awarding of the contract, Wolf Run has also been listed for nutrients. A draft TMDL has been submitted to KDOW. Revisions will be made to the document to include a TMDL for Wolf Run. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated.

#### 5.1.14. Swift Camp Creek Nutrient and/or Sediment TMDL

Stream Name	County	River Miles	Pollutant
Swift Camp Creek into Red River	Wolfe	0.0 to 13.8	Impairment unknown
UT to Swift Camp Cr. at RM 11.7	Wolfe	0.0 to 1.5	Sedimentation/siltation

Nutrient and suspended sediment data have been collected to attempt to define the cause of the unknown impairment. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated. KDOW will determine which stream morphology parameters are most important to complete the data collection for sediment TMDL development and will develop the TMDL once data collection is complete.

#### 5.1.15. Tate Creek Nutrient and Organic Enrichment TMDL

Stream Name	County	River Miles	Pollutant
Tate Cr. into KY River	Madison	0.0 to 6.5	Nutrient/eutrophication biological indicators
Tate Cr. into KY River	Madison	0.0 to 6.5	Organic enrichment (sewage) biological indicators

KDOW completed sample collection during 2004. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated.

### 5.2. Salt and Licking River Basins

#### 5.2.1. Brooks Run Nutrient, Organic Enrichment, and Pathogen TMDLs

Stream Name	County	River Miles	Pollutant
Brooks Run	Bullitt	0.0 to 2.5	Organic enrichment (sewage) biological indicators
Brooks Run	Bullitt	2.5 to 4.1	Organic enrichment (sewage) biological indicators
Brooks Run	Bullitt	2.5 to 4.1	Pathogens
Brooks Run	Bullitt	4.1 to 6.1	Organic enrichment (sewage) biological indicators
Brooks Run	Bullitt	4.1 to 6.1	Pathogens
UT to Brooks Run at RM 4.1	Bullitt	0.0 to 2.0	Pathogens
UT to Brooks Run at RM 4.1	Bullitt	0.0 to 2.0	Organic enrichment (sewage) biological indicators

KDOW has completed data collection for these streams. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated.

### 5.2.2. Fern Creek/Northern Ditch Nutrient and Organic Enrichment TMDLs

Stream Name	County	River Miles	Pollutant
Fern Cr./Northern Ditch into Pond Cr.	Jefferson	0.0 to 1.3	Ammonia (unionized)
Fern Cr./Northern Ditch into Pond Cr.	Jefferson	0.0 to 1.3	Nutrient/eutrophication biological indicators
Fern Cr./Northern Ditch into Pond Cr.	Jefferson	0.0 to 1.3	Organic enrichment (sewage) biological indicators
Fern Cr./Northern Ditch into Pond Cr.	Jefferson	1.3 to 4.4	Organic enrichment (sewage) biological indicators
Fern Cr./Northern Ditch into Pond Cr.	Jefferson	4.4 to 5.9	Organic enrichment (sewage) biological indicators

KDOW completed sample collection during 2005. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated.

### 5.2.3. Hardins Creek Nutrient, Organic Enrichment and Sediment TMDLs

Stream Name	County	River Miles	Pollutant
Hardins Cr. into Sinking Cr.	Breckinridge	0.0 to 5.0	Sedimentation/siltation
Hardins Cr. into Sinking Cr.	Breckinridge	0.0 to 5.0	Nutrient/eutrophication biological indicators
Hardins Cr. into Sinking Cr.	Breckinridge	5.2 to 11.4	Organic enrichment (sewage) biological indicators

KDOW has collected nutrient and suspended sediment data on these streams. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated. KDOW will determine which stream morphology parameters are most



important to complete the data collection for the sediment TMDL development and will develop the TMDLs once data collection is completed.

#### 5.2.4. Beargrass Creek Organic Enrichment and Pathogen TMDLs

Stream Name	County	River Miles	Pollutant
Middle Fk. Beargrass Cr. into Beargrass Cr.	Jefferson	0.0 to 2.0	Pathogens
Middle Fk. Beargrass Cr. into Beargrass Cr.	Jefferson	0.0 to 2.0	Organic enrichment (sewage) biological indicators
Middle Fk. Beargrass Cr. into Beargrass Cr.	Jefferson	2.0 to 2.9	Pathogens
Middle Fk. Beargrass Cr. into Beargrass Cr.	Jefferson	2.9 to 5.8	Pathogens
Middle Fk. Beargrass Cr. into Beargrass Cr.	Jefferson	5.8 to 15.3	Pathogens
Muddy Fork into Beargrass Creek	Jefferson	0.0 to 6.9	Pathogens
South Fork Beargrass Creek	Jefferson	0.0 to 2.7	Pathogens
South Fork Beargrass Creek	Jefferson	0.0 to 2.7	Organic enrichment (sewage) biological indicators
South Fork Beargrass Creek	Jefferson	2.7 to 13.6	Pathogens
South Fork Beargrass Creek	Jefferson	2.7 to 13.6	Organic enrichment (sewage) biological indicators

The Metropolitan Sewer District (MSD) along with the KWRRI are developing these TMDLs. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated.

**5.2.5. Woolper Creek Nutrient, Organic Enrichment, Suspended Solids and Sediment TMDLs**

Stream Name	County	River Miles	Pollutant
Woolper Cr. into Ohio River	Boone	11.9 to 14.0	Nutrient/eutrophication biological indicators
Woolper Cr. into Ohio River	Boone	11.9 to 14.0	Organic enrichment (sewage) biological indicators
Woolper Cr. into Ohio River	Boone	11.9 to 14.0	Total suspended solids
Allen Fork into Woolper Cr.	Boone	2.0 to 4.6	Nutrient/eutrophication biological indicators
Allen Fork into Woolper Cr.	Boone	2.0 to 4.6	Sedimentation/siltation

KDOW has collected nutrient and suspended sediment data on these streams. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated. KDOW will determine which stream morphology parameters are most important to complete the data collection for the sediment TMDL development and will develop the TMDLs once data collection is completed.

**5.2.6. Banklick Creek Nutrient, Organic Enrichment, Sediment, and Pathogen TMDLs**

Stream Name	County	River Miles	Pollutant
Banklick Creek	Kenton	0.0 to 3.5	Pathogens
Banklick Creek	Kenton	0.0 to 3.5	Organic enrichment (sewage) biological indicators
Banklick Creek	Kenton	0.0 to 3.5	Sedimentation/siltation
Banklick Creek	Kenton	3.5 to 8.2	Pathogens
Banklick Creek	Kenton	3.5 to 8.2	Organic enrichment (sewage) biological indicators
Banklick Creek	Kenton	3.5 to 8.2	Sedimentation/siltation
Banklick Creek	Kenton	3.5 to 8.2	Nutrient/eutrophication biological indicators
Banklick Creek	Kenton	8.2 to 19.2	Nutrient/eutrophication biological indicators
Banklick Creek	Kenton	8.2 to 19.2	Organic enrichment (sewage) biological indicators
Banklick Creek	Kenton	8.2 to 19.2	Pathogens

Sanitation District #1 has collected data for these stream segments. KDOW will explore the option of having these TMDLs developed by a third party. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated.

### 5.2.7. Elk Fork Sediment TMDL

Stream Name	County	River Miles	Pollutant
Elk Fork into Licking River	Morgan	0.0 to 4.9	Sedimentation/siltation
Elk Fork into Licking River	Morgan	4.9 to 10.5	Sedimentation/siltation
Elk Fork into Licking River	Morgan	4.9 to 10.5	Turbidity
Elk Fork into Licking River	Morgan	12.6 to 14.7	Sedimentation/siltation
Elk Fork into Licking River	Morgan	12.6 to 14.7	Turbidity
Straight Creek into Elk Fork	Morgan	0.0 to 1.8	Sedimentation/siltation
Straight Creek into Elk Fork	Morgan	0.0 to 1.8	Turbidity

KDOW has collected suspended sediment data on these streams. KDOW will determine which stream morphology parameters are most important to complete the data collection for the sediment TMDL development and will develop the TMDLs once data collection is completed.

### 5.2.8. Fleming Creek Nutrient and Organic Enrichment TMDL

Stream Name	County	River Miles	Pollutant
Allison Cr. into Fleming Cr.	Fleming	0.0 to 4.9	Organic enrichment (sewage) biological indicators
Allison Cr. into Fleming Cr.	Fleming	0.0 to 4.9	Nutrients (phosphorus)
Craintown Br. into Fleming Cr.	Fleming	0.0 to 3.6	Nutrients (phosphorus)
Doty Cr. into Fleming Cr.	Fleming	0.0 to 2.3	Nutrient/eutrophication biological indicators
Fleming Cr. into Licking River	Fleming	0.0 to 12.8	Nutrients (phosphorus)
Fleming Cr. into Licking River	Fleming	0.0 to 12.8	Pathogens
Fleming Cr. into Licking River	Fleming	0.0 to 12.8	Nutrient/eutrophication biological indicators
Fleming Cr. into Licking River	Fleming	12.8 to 16.0	Pathogens
Fleming Cr. into Licking River	Fleming	12.8 to 16.0	Nutrient/eutrophication biological indicators
Fleming Cr. into Licking River	Fleming	20.8 to 39.4	Pathogens
Fleming Cr. into Licking River	Fleming	20.8 to 39.4	Nutrient/eutrophication biological indicators
Fleming Cr. into Licking River	Fleming	20.8 to 39.4	Nutrients (phosphorus)
Fleming Cr. into Licking River	Fleming	20.8 to 39.4	Organic enrichment (sewage) biological indicators
Logan Run into Fleming Cr.	Fleming	0.0 to 2.3	Nutrient/eutrophication biological indicators

A draft TMDL was developed by Tetra Tech and was submitted to KDOW. KDOW will revise the TMDL. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated.

**5.2.9. Hinkston Creek Nutrient and Sediment TMDL**

Stream Name	County	River Miles	Pollutant
Hinkston Cr. into S. Fk. Licking R.	Montgomery	51.5 to 65.9	Sedimentation/siltation
Hinkston Cr. into S. Fk. Licking R.	Montgomery	51.5 to 65.9	Nutrient/eutrophication biological indicators

KDOW has collected nutrient and suspended sediment data on these streams. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated. KDOW will determine which stream morphology parameters are most important to complete the data collection for the sediment TMDL development and will develop the TMDLs once data collection is completed.

**5.2.10. Little Stoner Creek Pathogen TMDL**

Stream Name	County	River Miles	Pollutant
Little Stoner Creek into Stoner Creek	Clark	0.0 to 5.0	Pathogens

KDOW began sample collection on this stream during the primary contact recreation season for 2005. Due to the drought conditions, additional sampling was performed during 2006. A draft TMDL is anticipated for 2007.

**5.2.11. Strodes Creek Nutrient, Organic Enrichment, Pathogen, and Sedimentation TMDL**

Stream Name	County	River Miles	Pollutant
Strodes Creek into Stoner Creek	Bourbon	2.7 to 19.3	Nutrient/eutrophication biological indicators
Strodes Creek into Stoner Creek	Bourbon	2.7 to 19.3	Organic enrichment (sewage) biological indicators
Strodes Creek into Stoner Creek	Bourbon	2.7 to 19.3	Pathogens
Strodes Creek into Stoner Creek	Bourbon	2.7 to 19.3	Sedimentation/siltation

KDOW has collected nutrient, pathogen and suspended sediment data on these streams. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated. KDOW will determine which stream morphology parameters are most important to complete the data collection for the sediment TMDL development and will develop the TMDLs once data collection is completed.

### 5.2.12. Three Mile Creek Nutrient, Organic Enrichment and Pathogen TMDL

Stream Name	County	River Miles	Pollutant
Threemile Cr. into Licking River	Campbell	0.1 to 4.7	Organic enrichment (sewage) biological indicators
Threemile Cr. into Licking River	Campbell	0.1 to 4.7	Pathogens

KDOW completed data collection for this stream during 2005. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated.

## 5.3. Green and Tradewater River Basins

### 5.3.1. Bacon Creek Pathogens TMDL

Stream Name	County	River Miles	Pollutant
Bacon Creek into Nolin River	Hart	26.3 to 31.2	Pathogens

Western Kentucky University has been contracted to collect data for this stream. Sampling will continue through the 2008 primary contact recreation season. KDOW will develop the TMDL. A draft TMDL is anticipated for 2009.

### 5.3.2. pH TMDL Development

Stream Name	County	River Miles	Pollutant
Cypress Creek	Muhlenburg	22.9 to 25.0	pH
Cypress Creek	Muhlenburg	25.0 to 33.3	pH
Flat Cr into Pond River	Hopkins	0.0 to 10.6	pH
Pond Creek into Green River	Muhlenburg	9.4 to 13.6	pH
Pond Creek into Green River	Muhlenburg	13.6 to 16.3	pH
Pond Creek into Green River	Muhlenburg	16.3 to 20.0	pH
Pond Creek into Green River	Muhlenburg	20.0 to 23.8	pH

The KWRRRI has submitted draft pH TMDLs to KDOW. The TMDLs are being revised. Public notice is anticipated for Spring 2007.

#### 5.4. Upper Cumberland, Lower Cumberland, Mississippi, and Tennessee River Basins

##### 5.4.1. Little River Watershed TMDLs

Stream Name	County	River Miles	Pollutant
Little River into Cumberland River	Trigg	23.6 to 33.1	Nutrient/eutrophication biological indicators
Little River into Cumberland River	Trigg	23.6 to 33.1	Iron
Little River into Cumberland River	Trigg	33.1 to 34.4	Nutrient/eutrophication biological indicators
Little River into Cumberland River	Trigg	33.1 to 34.4	Pathogens
Little River into Cumberland River	Trigg	34.4 to 48.4	Nutrient/eutrophication biological indicators
Little River into Cumberland River	Trigg	34.4 to 48.4	Pathogens
Little River into Cumberland River	Trigg	34.4 to 48.4	Organic enrichment (sewage) biological indicators
Little River into Cumberland River	Christian	48.4 to 61.0	Nutrient/eutrophication biological indicators
Little River into Cumberland River	Christian	48.4 to 61.0	Organic enrichment (sewage) biological indicators
Little River into Cumberland River	Christian	48.4 to 61.0	Pathogens
N. Fork Little River into Little River	Christian	0.0 to 0.3	Pathogens
N. Fork Little River into Little River	Christian	0.0 to 0.3	Nutrient/eutrophication biological indicators
N. Fork Little River into Little River	Christian	0.0 to 0.3	Organic enrichment (sewage) biological indicators
N. Fork Little River into Little River	Christian	0.3 to 6.9	Nutrient/eutrophication biological indicators
N. Fork Little River into Little River	Christian	0.3 to 6.9	Organic enrichment (sewage) biological indicators
N. Fork Little River into Little River	Christian	0.3 to 6.9	Pathogens
N. Fork Little River into Little River	Christian	11.6 to 12.3	Pathogens
N. Fork Little River into Little River	Christian	12.3 to 16.2	Pathogens
N. Fork Little River into Little River	Christian	6.9 to 11.6	Nutrient/eutrophication biological indicators
N. Fork Little River into Little River	Christian	6.9 to 11.6	Organic enrichment (sewage) biological indicators

<b>Stream Name</b>	<b>County</b>	<b>River Miles</b>	<b>Pollutant</b>
N. Fork Little River into Little River	Christian	6.9 to 11.6	Pathogens
S. Fork Little River into Little River	Christian	0.0 to 10.5	Pathogens
S. Fork Little River into Little River	Christian	0.0 to 10.5	Nutrient/eutrophication biological indicators
S. Fork Little River into Little River	Christian	10.5 to 19.9	Pathogens
S. Fork Little River into Little River	Christian	10.5 to 19.9	Nutrient/eutrophication biological indicators
N. Fork Little River into Little River	Christian	0.0 to 0.3	Sedimentation/siltation
N. Fork Little River into Little River	Christian	6.9 to 11.6	Sedimentation/siltation
S. Fork Little River into Little River	Christian	0.0 to 10.5	Sedimentation/siltation
S. Fork Little River into Little River	Christian	10.5 to 19.9	Sedimentation/siltation
N. Fork Little River into Little River	Christian	6.9 to 11.6	Impairment unknown
S. Fork Little River into Little River	Christian	10.5 to 19.9	Other
Sinking Fork into Little River	Trigg	2.2 to 5.6	Impairment unknown
Skinner Creek into Casey Creek	Trigg	0.0 to 5.8	Impairment unknown

KDOW received 319(h) funding for sample collection and TMDL development in the Little River Watershed above Lake Barkley. Data collection was completed in 2002. The nutrient, organic enrichment and Pathogens TMDLs are currently under development by EPA Region 4. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated. KDOW will determine which stream morphology parameters are most important to complete the data collection for the sediment TMDL development and will develop the TMDLs once data collection is completed.

#### 5.4.2. Roundstone Creek Pathogen TMDLs

Stream Name	County	River Miles	Pollutant
Brush Creek into Roundstone Creek	Rockcastle	1.1 to 7.6	Pathogens
Crooked Creek into Roundstone Creek	Rockcastle	1.0 to 6.4	Pathogens

KDOW collected E. coli data on these segments during the primary contact recreation season of 2005. A final TMDL has been developed and has been submitted to EPA for approval.

#### 5.4.3. Bayou Creek Beta Particles and Metals TMDLs

Stream Name	County	River Miles	Pollutant
Bayou Creek into Ohio River	McCracken	0.0 to 6.5	Metals (copper)
Bayou Creek into Ohio River	McCracken	0.0 to 6.5	Beta particles and photon emitters
Bayou Creek into Ohio River	McCracken	0.0 to 6.5	Metals (mercury)
Bayou Creek into Ohio River	McCracken	0.0 to 6.5	Metals (lead)
Little Bayou Cr. into Bayou Cr.	McCracken	0.0 to 6.5	Metals (copper)
Little Bayou Cr. into Bayou Cr.	McCracken	0.0 to 6.5	Beta particles and photon emitters
Little Bayou Cr. into Bayou Cr	McCracken	0.0 to 6.5	Metals (lead)

The KWRRRI has been contracted by the Paducah Gaseous Diffusion Plant to develop these TMDLs. Additional metals data will be collected. Initial data for the Beta particles listing indicates that the streams are now meeting water quality standards for this pollutant. If no contrary data is produced, a delisting will be pursued for the beta particles. A draft metals TMDL is anticipated for 2007.



**5.4.4. Clarks River Watershed Nutrient, Organic Enrichment, and Pathogen TMDLs**

<b>Stream Name</b>	<b>County</b>	<b>River Miles</b>	<b>Pollutant</b>
Bee Creek into Clarks River	Calloway	0 to 1.8	Pathogens
Blizzard Pond into W. Fk. Clarks R.	McCracken	0 to 3.7	Pathogens
Camp Creek into W. Fk. Clarks R.	McCracken	0 to 5.4	Pathogens
Chestnut Creek into Clarks River	Marshall	0 to 3.0	Pathogens
Clarks River into Tennessee River	Calloway	50.9 to 59.9	Pathogens
Clarks River into Tennessee River	Calloway	50.9 to 59.9	Organic enrichment (sewage) biological indicators
Clarks River into Tennessee River	Calloway	50.9 to 59.9	Nutrient/eutrophication biological indicators
Clarks River into Tennessee River	Calloway	59.9 to 61.9	Pathogens
Clayton Creek into Clarks River	Calloway	3.3 to 7.1	Pathogens
Damon Creek into W. Fk. Clarks R.	Calloway	0 to 1.8	Pathogens
Middle Fork Creek into Clarks R.	Marshall	0.2 to 6.6	Pathogens
Middle Fork into Clarks River	Calloway	0 to 2.7	Pathogens
Middle Fork into Clarks River	Calloway	0 to 2.7	Nutrient/eutrophication biological indicators
Middle Fork into Clarks River	Calloway	2.7 to 4.9	Nutrient/eutrophication biological indicators
Spring Creek into W. Fk. Clarks R.	Graves	0 to 1.8	Nutrient/eutrophication biological indicators
West Fork Clarks River	Graves	12.8 to 16.8	Pathogens
West Fork Clarks River	McCracken	2.6 to 10.1	Pathogens
West Fork Clarks River	Calloway	22.7 to 27.3	Pathogens

KDOW has contracted Murray State University to conduct sampling and develop TMDLs for these segments. Sampling began in 2005 and a draft TMDL is anticipated for 2009.

**5.5. Big Sandy, Little Sandy, and Tygarts Basins**

No TMDLs under development prior to 2006. See TMDLs planned for 2006 and 2007.

## **5.6. Ohio River Mainstem**

The Ohio River Valley Water Sanitation Commission is collecting data for PCBs, Dioxin, and Pathogen TMDL development for the mainstem of the Ohio River. A multi-state agreement has been reached to have EPA Region 5 take the lead in producing the pathogen TMDLs. EPA Region 5 will contract the pathogen TMDL development to a third party.

## Chapter 6. TMDLs Planned for Development During 2006

### 6.1. Kentucky River Basin

#### 6.1.1. Dix River Watershed

Stream Name	County	River Miles	Pollutant
Clarks Run into Dix River	Boyle	0.0 to 4.3	Organic enrichment (sewage) biological indicators
Clarks Run into Dix River	Boyle	4.3 to 6.6	Organic enrichment (sewage) biological indicators
Hanging Fork into Dix R.	Lincoln	0.0 to 15.0	Pathogens

Third Rock has been contracted to collect data for Clarks Run and Hanging Fork. Third Rock will develop the TMDL for Clarks Run. A draft is anticipated for 2008. KDOW will develop the TMDLs for Hanging Fork. A draft pathogen TMDLs is anticipated for 2007. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated.

#### 6.1.2. Eagle Creek Watershed

Stream Name	County	River Miles	Pollutant
Eagle Creek into Kentucky River	Grant	31.6 to 36.5	Nutrient/eutrophication biological indicators
Eagle Creek into Kentucky River	Grant	31.6 to 36.5	Sedimentation/siltation
Eagle Creek into Kentucky River	Owen	50.8 to 58.5	Nutrient/eutrophication biological indicators
Eagle Creek into Kentucky River	Owen	50.8 to 58.5	Sedimentation/siltation
Stevens Creek into Eagle Creek	Owen	14.4 to 17.3	Nutrient/eutrophication biological indicators
Stevens Creek into Eagle Creek	Owen	14.4 to 17.3	Sedimentation/siltation

KDOW began collecting nutrient and TSS data for these streams during Spring of 2006. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated. KDOW will determine which stream morphology parameters are most important to complete the data collection for the sediment TMDL development and will develop the TMDLs once data collection is completed.

### 6.1.3. Pathogen TMDLs

Stream Name	County	River Miles	Pollutant
Muddy Creek into KY River	Madison	0.0 to 20.2	Pathogens
Paint Lick Creek into KY River	Garrard	0.0 to 7.5	Pathogens
Silver Creek into KY River	Madison	0.0 to 11.1	Pathogens
Hardwick Creek into Red River	Powell	0.0 to 3.2	Pathogens
KY River into Ohio River	Owen	11.6 to 53.4	Pathogens
KY River into Ohio River	Madison	150.2 to 190.0	Pathogens
Dix River into Kentucky River	Garrard	33.3 to 36.01	Pathogens
Goose Creek into S. Fork KY River	Clay	0.0 to 8.3	Pathogens
Red Bird River into S. Fork KY River	Clay	0.0 to 15.0	Pathogens

KDOW will develop these pathogen TMDLs based on existing ambient monitoring data or will request delisting if a segment shows full support for pathogens. Draft TMDLs are expected in 2007.

### 6.2. Salt and Licking River Basins

Stream Name	County	River Miles	Pollutant
Houston Creek into Stoner Creek	Bourbon	0.0 to 9.0	Pathogens
Locust Creek into Ohio River	Bracken	0.0 to 4.1	Pathogens
Snag Creek into Ohio River	Bracken	0.5 to 5.5	Pathogens
Townsend Creek into S. Fk. Licking R.	Harrison	0.0 to 4.9	Pathogens
Houston Creek into Stoner Creek	Bourbon	9.0 to 12.7	Nutrient/eutrophication biological indicators

KDOW began collecting nutrient and pathogen data for these streams during Spring of 2006. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated.

### 6.3. Green and Tradewater River Basins

#### 6.3.1. Hopkins County TMDLs

Stream Name	County	River Miles	Pollutant
Caney Creek into Tradewater River	Hopkins	0.0 to 8.8	pH
Copper Creek into Richland Creek	Hopkins	0.0 to 1.1	pH
Copper Creek into Richland Creek	Hopkins	0.0 to 1.1	Iron
Copper Creek into Richland Creek	Hopkins	0.0 to 1.1	Zinc
Copper Creek into Richland Creek	Hopkins	0.0 to 1.1	Total dissolved solids
Copperas Creek into Caney Creek	Hopkins	0.0 to 3.1	pH
Copperas Creek into Caney Creek	Hopkins	0.0 to 3.1	Cadmium
Copperas Creek into Caney Creek	Hopkins	0.0 to 3.1	Iron
Copperas Creek into Caney Creek	Hopkins	0.0 to 3.1	Nickel
Copperas Creek into Caney Creek	Hopkins	0.0 to 3.1	Zinc
Copperas Creek into Caney Creek	Hopkins	0.0 to 3.1	Total dissolved solids
Hurricane Creek into Tradewater R.	Hopkins	0.7 to 2.2	pH
Hurricane Creek into Tradewater R.	Hopkins	0.7 to 2.2	Iron
Hurricane Creek into Tradewater R.	Hopkins	0.7 to 2.2	Zinc
Hurricane Creek into Tradewater R.	Hopkins	0.7 to 2.2	Total dissolved solids

KDOW began collecting data for these streams during Spring of 2006. Draft TMDLs are anticipated for 2007.

#### 6.3.2. Pathogen TMDLs

Stream Name	County	River Miles	Pollutant
Big Creek into Russell Creek	Adair	3.0 to 8.2	Pathogens
Big Pitman Creek into Green River	Green	0.0 to 13.6	Pathogens
Big Reedy Creek into Green River	Butler	7.5 to 13.6	Pathogens
Billy Creek into Valley Creek	Hardin	0.0 to 5.9	Pathogens
Buck Fork into Pond River	Christian	14.0 to 20.0	Pathogens
Butlers Fork into Russell Creek	Adair	2.3 to 4.0	Pathogens
Casey Creek into Green River	Adair	3.7 to 4.7	Pathogens
Claylick Creek into Green River	Warren	2.0 to 3.1	Pathogens
Elk Pond Creek into Pond River	Muhlenberg	0.0 to 4.5	Pathogens
Glens Fork into Russell Creek	Adair	0.0 to 8.0	Pathogens
Jarrels Creek into Pond River	Muhlenberg	0.0 to 1.6	Pathogens
Little Barren River into Green River	Green	0.0 to 8.8	Pathogens

Stream Name	County	River Miles	Pollutant
Mill Creek into Smith Creek	Ohio	0.0 to 3.8	Pathogens
Nolin River into Green River	Hardin	44.0 to 93.2	Pathogens
Pettys Fork into Russell Creek	Adair	0.0 to 6.0	Pathogens
Plum Creek into Pond Creek	Muhlenberg	2.5 to 4.3	Pathogens
Poplar Grove Branch into Brush Creek	Taylor	0.0 to 3.0	Pathogens
Russell Creek into Green River	Adair	40.0 to 41.5	Pathogens
Valley Creek into Nolin River	Hardin	0.0 to 3.5	Pathogens
Valley Creek into Nolin River	Hardin	10.3 to 11.8	Pathogens

KDOW will develop these pathogen TMDLs based on existing ambient monitoring data. Draft TMDLs are expected in 2007.

### 6.3.3. Panther Creek and Long Falls Creek Watersheds

Stream Name	County	River Miles	Pollutant
Brush Fork into Long Falls Creek	McLean	0.0 to 3.8	pH
Brush Fork into Long Falls Creek	McLean	0.0 to 3.8	Sulfates
Burnett Fk. into N Fk. into Panther Cr.	Daviess	0.0 to 1.3	Nitrogen (total)
Burnett Fk. into N Fk. into Panther Cr.	Daviess	0.0 to 1.3	Phosphorus (total)
Cane Run into S. Fk. into Panther Cr.	Daviess	0.0 to 3.6	Phosphorus (total)
Cane Run into S. Fk. into Panther Cr.	Daviess	0.0 to 3.6	Organic enrichment (sewage) biological indicators
Crooked Creek into Panther Creek	Daviess	0.0 to 2.9	Pathogens
Deserter Cr. into S. Fk. Panther Cr.	Daviess	0.0 to 3.1	Pathogens
Ford Ditch into Rhodes Creek	Daviess	0.0 to 2.6	Phosphorus (total)
Ford Ditch into Rhodes Creek	Daviess	0.0 to 2.6	Total Dissolved Solids
Ford Ditch into Rhodes Creek	Daviess	0.0 to 2.6	Sulfates
Knoblick Cr. into Panther Cr.	Daviess	0.0 to 2.1	Pathogens
Long Falls Cr into Green River	McLean	0.0 to 7.5	Pathogens
Long Falls Cr into Green River	McLean	0.0 to 7.5	Total Dissolved Solids
Long Falls Cr into Green River	McLean	0.0 to 7.5	Sulfates
Long Falls Cr. into Green River	McLean	7.5 to 11.8	Pathogens
Long Falls Cr. into Green River	McLean	7.5 to 11.8	pH
Long Falls Cr. into Green River	McLean	7.5 to 11.8	Total Dissolved Solids
N. Fk. Panther Cr. into Panther Cr.	Daviess	4.2 to 6.0	Pathogens
N. Fk. Panther Cr. into Panther Cr.	Daviess	9.5 to 12.7	Phosphorus (total)

Stream Name	County	River Miles	Pollutant
Panther Creek into Green River	Daviess	17.1 to 19.5	Phosphorus (total)
Panther Creek into Green River	Daviess	2.7 to 5.6	Pathogens
Rhodes Creek into Panther Cr.	Daviess	0.0 to 7.3	Phosphorus (total)
Rhodes Creek into Panther Cr.	Daviess	0.0 to 7.3	Organic enrichment (sewage) biological indicators
S. Fk. Panther Cr. into Panther Cr.	Daviess	0.0 to 2.3	Organic enrichment (sewage) biological indicators
S. Fk. Panther Cr. into Panther Cr.	Daviess	0.0 to 2.3	Phosphorus (total)
S. Fk. Panther Cr. into Panther Cr.	Daviess	0.0 to 2.3	metals (copper)
S. Fk. Panther Cr. into Panther Cr.	Daviess	0.0 to 2.3	Pathogens
S. Fk. Panther Cr. into Panther Cr.	Daviess	13.5 to 17.7	Pathogens
S. Fk. Panther Cr. into Panther Cr.	Daviess	9.5 to 13.5	Phosphorus (total)
S. Fk. Panther Cr. into Panther Cr.	Daviess	9.5 to 13.5	Pathogens
Sweepstakes Br. into S. Fk. Panther	Daviess	1.0 to 3.8	Organic enrichment (sewage) biological indicators
Wolf Br. Ditch into Rhodes Cr.	Daviess	0.0 to 4.1	Phosphorus (total)
Wolf Br. Ditch into Rhodes Cr.	Daviess	0.0 to 4.1	Organic enrichment (sewage) biological indicators

KDOW has contracted Western Kentucky University to collect samples and develop these TMDLs. Draft TMDLs are anticipated for 2010.

#### 6.4. Upper Cumberland, Lower Cumberland, Mississippi, and Tennessee River Basins

##### 6.4.1. Upper Cumberland/Rockcastle River Organic Enrichment TMDLs

Stream Name	County	River Miles	Pollutant
Raccoon Creek	Laurel	0.0 to 2.7	Nutrient/Eutrophication biological indicators
Renfro Creek	Rockcastle	0.0 to 3.0	Organic enrichment (sewage) biological indicators
Roundstone Creek	Rockcastle	16.9 to 23.7	Nutrient/Eutrophication biological indicators
Skegg Creek	Rockcastle	0.0 to 3.2	Nutrient/Eutrophication biological indicators
S. Fork Rockcastle R.	Laurel	21.5 to 25.5	Nutrient/Eutrophication biological indicators

KDOW began collecting data for these streams during Spring of 2006. KY is in the process of developing nutrient criteria for streams. TMDLs for streams impaired by nutrients and/or organic enrichment will not be finalized until the nutrient criteria are promulgated.

#### 6.4.2. Lower Cumberland Pathogen TMDLs

Stream Name	County	River Miles	Pollutant
Claylick Creek into Cumberland River	Livingston	2.0 to 4.8	Pathogens
Eddy Creek into Cumberland River	Lyon	8.4 to 10.5	Pathogens
Ferguson Creek into Cumberland River	Livingston	0.0 to 1.1	Pathogens
Hickory Creek into Cumberland River	Livingston	0.0 to 3.8	Pathogens
Livingston Creek into Cumberland River	Lyon	4.6 to 7.0	Pathogens
Richland Creek into Cumberland River	Livingston	0.6 to 5.3	Pathogens
Sandy Creek into Cumberland River	Livingston	0.0 to 2.3	Pathogens
Skinframe Creek into Livingston Creek	Lyon	0.0 to 4.8	Pathogens
Sugar Creek into Cumberland River	Livingston	2.1 to 6.7	Pathogens

KDOW will develop these pathogen TMDLs based on existing ambient monitoring data. Draft TMDLs are expected in 2007.

#### 6.5. Big Sandy, Little Sandy, and Tygarts Basins

Stream Name	County	River Miles	Pollutant
East Fork Little Sandy R. into Little Sandy R.	Boyd	24.9 to 26.4	Pathogens
Blaine Creek into Big Sandy River	Lawrence	35.0 to 40.8	Pathogens
Bear Creek into Big Sandy River	Lawrence	0.0 to 1.9	Pathogens
Tygarts Creek into Ohio River	Greenup	0.0 to 45.7	Pathogens

KDOW will develop these pathogen TMDLs based on existing ambient monitoring data or delist segments if no impairment is found. Draft TMDLs are expected in 2007.



## Chapter 7. TMDLs Planned for Development During 2007

### 7.1. Kentucky River Basin

#### 7.1.1. Cane Run Creek TMDLs

Stream Name	County	River Miles	Pollutant
Cane Run into North Elkhorn Creek	Scott	0.0 to 3.0	Sedimentation/siltation
Cane Run into North Elkhorn Creek	Scott	3.0 to 9.6	Sedimentation/siltation
Cane Run into North Elkhorn Creek	Scott	3.0 to 9.6	Nutrient/eutrophication
Cane Run into North Elkhorn Creek	Fayette	9.6 to 17.4	Organic Enrichment (sewage) biological indicators

KDOW began TMDL monitoring on these streams during 2007.

### 7.2. Salt/Licking River Basin

#### 7.2.1. Gunpowder Creek TMDLs

Stream Name	County	River Miles	Pollutant
Gunpowder Creek into Ohio River	Boone	15.4 to 17.1	Sedimentation/siltation
Gunpowder Creek into Ohio River	Boone	15.4 to 17.1	Nutrient/eutrophication
Gunpowder Creek into Ohio River	Boone	15.4 to 17.1	Organic Enrichment (sewage) biological indicators
Gunpowder Creek into Ohio River	Boone	18.9 to 21.6	Unknown
South Fork Gunpowder Creek into Gunpowder Creek	Boone	0.0 to 2.0	Sedimentation/siltation
South Fork Gunpowder Creek into Gunpowder Creek	Boone	0.0 to 2.0	Nutrient/eutrophication
South Fork Gunpowder Creek into Gunpowder Creek	Boone	0.0 to 2.0	Organic Enrichment (sewage) biological indicators

Stream Name	County	River Miles	Pollutant
South Fork Gunpowder Creek into Gunpowder Creek	Boone	4.1 to 6.8	Pathogens

KDOW began TMDL monitoring on these streams during 2007.

### 7.3. Green/Tradewater Basin

#### 7.3.1. Pathogen TMDLs

Stream Name	County	River Miles	Pollutant
Highland Creek into Ohio River	Union	0.0 to 7.1	Pathogens
Cypress Creek into Tradewater River	Union	0.0 to 2.25	Pathogens
Tradewater River into Ohio River	Union	0.0 to 16.7	Pathogens

KDOW will develop these pathogen TMDLs based on existing ambient monitoring data. Draft TMDLs are expected in 2008.

#### 7.3.2. Valley Creek Watershed TMDLs

Stream Name	County	River Miles	Pollutant
Billy Creek into Valley Creek	Hardin	0.0 to 5.9	Sedimentation/siltation
Billy Creek into Valley Creek	Hardin	0.0 to 5.9	Nutrient/eutrophication
Valley Creek into Nolin River	Hardin	8.0 to 10.3	Sedimentation/siltation
Valley Creek into Nolin River	Hardin	8.0 to 10.3	Nutrient/eutrophication

KDOW began TMDL monitoring on these streams during 2007.

#### 7.3.3. Deer Creek Watershed TMDLs

Stream Name	County	River Miles	Pollutant
Deer Creek into Green River	Webster	0.0 to 8.2	Nutrient/eutrophication
East Fork Deer Creek into Deer Creek	Webster	0.0 to 6.8	Sedimentation/siltation
Havana Creek into Deer Creek	Webster	0.0 to 1.9	Sedimentation/siltation
Knoblick Creek into Deer Creek	Webster	0.0 to 9.0	Sedimentation/siltation

Stream Name	County	River Miles	Pollutant
Knoblick Creek into Deer Creek	Webster	0.0 to 9.0	Nutrient/eutrophication
Knoblick Creek into Deer Creek	Webster	0.0 to 9.0	Total dissolved solids

KDOW began TMDL monitoring on these streams during 2007.

#### 7.3.4. Bacon Creek Watershed TMDLs

Stream Name	County	River Miles	Pollutant
Bacon Creek into Nolin River	Hart	0.0 to 17.2	Pathogens
Bacon Creek into Nolin River	Hart	17.2 to 26.3	Pathogens
Bacon Creek into Nolin River	Hart	17.2 to 26.3	Sedimentation/siltation

KDOW plans to begin TMDL monitoring on these streams during 2007.

#### 7.3.5. Clear Creek Watershed TMDLs

Stream Name	County	River Miles	Pollutant
Clear Creek into Tradewater River	Hopkins	0.0 to 2.7	Organic Enrichment (sewage) biological indicators
Clear Creek into Tradewater River	Hopkins	19.1 to 25.5	Sedimentation/siltation
Clear Creek into Tradewater River	Hopkins	19.1 to 25.5	Organic Enrichment (sewage) biological indicators
Clear Creek into Tradewater River	Hopkins	25.5 to 26.5	Pathogens
Lambs Creek into Clear Creek	Hopkins	0.0 to 3.5	Sedimentation/siltation
Lambs Creek into Clear Creek	Hopkins	0.0 to 3.5	Total dissolved solids
Lambs Creek into Clear Creek	Hopkins	0.0 to 3.5	Nutrient/eutrophication
Lick Creek into Clear Creek	Hopkins	0.0 to 12.1	Sedimentation/siltation
Pond Creek into Clear Creek	Hopkins	0.0 to 5.5	Sedimentation/siltation
Pond Creek into Clear Creek	Hopkins	0.0 to 5.5	Turbidity

Stream Name	County	River Miles	Pollutant
Richland Creek into Clear Creek	Hopkins	0.0 to 4.4	Sedimentation/siltation
UT to Clear Creek	Hopkins	0.0 to 2.2	Pathogens
Weirs Creek into Clear Creek	Hopkins	0.0 to 5.0	Sedimentation/siltation
Weirs Creek into Clear Creek	Hopkins	0.0 to 5.0	Turbidity
Weirs Creek into Clear Creek	Hopkins	0.0 to 5.0	Nutrient/eutrophication

KDOW began TMDL monitoring on these streams during 2007.

#### 7.4. Tennessee/Mississippi/Cumberland Basin

##### 7.4.1. Pathogen TMDLs

Stream Name	County	River Miles	Pollutant
Humphrey Creek into Ohio River	Ballard	3.4 to 11.0	Pathogens
Bear Creek into Tennessee River (Kentucky Lake)	Marshall	3.1 to 6.3	Pathogens
Angle Creek into Little Cypress Creek	Marshall	0.0 to 0.7	Pathogens
Island Creek into Tennessee River	McCracken	0.0 to 5.5	Pathogens
Little Cypress Creek into Cypress Creek	Marshall	0.0 to 3.4	Pathogens

KDOW will develop these pathogen TMDLs based on existing ambient monitoring data. Draft TMDLs are expected in 2008.

##### 7.4.2. Pleasant Grove Creek Watershed TMDLs

Stream Name	County	River Miles	Pollutant
Pleasant Grove Creek into Red River	Logan	0.0 to 2.2	Pathogens
Pleasant Grove Creek into Red River	Logan	0.0 to 2.2	Nutrient/eutrophication
Pleasant Grove Creek into Red River	Logan	0.0 to 2.2	Organic Enrichment (sewage) biological indicators

KDOW began TMDL monitoring on these streams during 2007.

### 7.4.3. Laurel River Watershed TMDLs

<b>Stream Name</b>	<b>County</b>	<b>River Miles</b>	<b>Pollutant</b>
Laurel River into Cumberland River	Laurel	36.6 to 46.3	Sedimentation/siltation
Laurel River into Cumberland River	Laurel	36.6 to 46.3	Nutrient/eutrophication
Little Laurel River into Laurel River	Laurel	0.0 to 8.3	Pathogens
Little Laurel River into Laurel River	Laurel	0.0 to 8.3	Organic Enrichment (sewage) biological indicators
Little Laurel River into Laurel River	Laurel	8.3 to 12.4	Sedimentation/siltation
Little Laurel River into Laurel River	Laurel	8.3 to 12.4	Pathogens
Little Laurel River into Laurel River	Laurel	8.3 to 12.4	Organic Enrichment (sewage) biological indicators
Little Laurel River into Laurel River	Laurel	8.3 to 12.4	Total Phosphorus
Little Laurel River into Laurel River	Laurel	12.4 to 14.6	Pathogens
Little Laurel River into Laurel River	Laurel	12.4 to 14.6	Nutrient/eutrophication
Little Laurel River into Laurel River	Laurel	12.4 to 14.6	Organic Enrichment (sewage) biological indicators
Little Laurel River into Laurel River	Laurel	14.6 to 22.8	Pathogens
UT to Little Laurel River	Laurel	0.0 to 1.4	Sedimentation/siltation
Whitley Branch into Little Laurel River	Laurel	0.0 to 1.1	Pathogens
Whitley Branch into Little Laurel River	Laurel	0.0 to 1.1	Organic Enrichment (sewage) biological indicators
Whitley Branch into Little Laurel River	Laurel	1.1 to 2.5	Pathogens

KDOW began TMDL monitoring on these streams during 2007.

## 7.5. Big Sandy, Little Sandy, and Tygarts Basin

### 7.5.1. Elkhorn Creek Watershed TMDLs

Stream Name	County	River Miles	Pollutant
Elkhorn Creek into Russel Fork	Pike	0.0 to 10.6	Sedimentation/siltation
Elkhorn Creek into Russel Fork	Pike	0.0 to 10.6	Total dissolved solids
Elkhorn Creek into Russel Fork	Pike	0.0 to 10.6	Pathogens
Upper Pidgeon Branch into Elkhorn Creek	Pike	0.0 to 2.1	Sedimentation/siltation
Upper Pidgeon Branch into Elkhorn Creek	Pike	0.0 to 2.1	Total dissolved solids

Monitoring will be performed under a 319(h) project grant. KDOW will use the data obtained to develop these TMDLs.

### 7.5.2. Right Fork Beaver Creek Watershed TMDLs

Stream Name	County	River Miles	Pollutant
Arnold Fk into R. Fk. Beaver Cr.	Knott	0.0 to 2.6	Sedimentation/siltation
Arnold Fk into R. Fk. Beaver Cr.	Knott	0.0 to 2.6	Sulfates
Arnold Fk into R. Fk. Beaver Cr.	Knott	0.0 to 2.6	Total Dissolved Solids
Bill D Br. into R. Fk. Beaver Cr.	Knott	0.0 to 1.1	Sedimentation/siltation
Bill D Br. into R. Fk. Beaver Cr.	Knott	0.0 to 1.1	Total Dissolved Solids
Dry Cr. into R. Fk. Beaver Cr.	Knott	0.0 to 4.0	Sedimentation/siltation
Dry Cr. into R. Fk. Beaver Cr.	Knott	0.0 to 4.0	Sulfates
Dry Cr. into R. Fk. Beaver Cr.	Knott	0.0 to 4.0	Total Dissolved Solids
Goose Cr. into R. Fk. Beaver Cr.	Floyd	0.0 to 2.2	Impairment unknown
Goose Cr. into R. Fk. Beaver Cr.	Floyd	0.0 to 2.2	Sedimentation/siltation
Goose Cr. into R. Fk. Beaver Cr.	Floyd	0.0 to 2.2	Sulfates
Johns Br. into R. Fk. Beaver Cr.	Floyd	0.0 to 1.6	Sedimentation/siltation
Johns Br. into R. Fk. Beaver Cr.	Floyd	0.0 to 1.6	Sulfates
Jones Fk. into R. Fk. Beaver Cr.	Knott	0.0 to 9.4	Sedimentation/siltation
Jones Fk. into R. Fk. Beaver Cr.	Knott	0.0 to 9.4	Sulfates
Jones Fk. into R. Fk. Beaver Cr.	Knott	0.0 to 9.4	Total Dissolved Solids
Puncheon Br. into R. Fk. Beaver Cr.	Knott	0.0 to 3.6	Organic Enrichment (sewage) biological indicators

<b>Stream Name</b>	<b>County</b>	<b>River Miles</b>	<b>Pollutant</b>
Puncheon Br. into R. Fk. Beaver Cr.	Knott	0.0 to 3.6	Total Dissolved Solids
Right Fk. Beaver Cr. into Beaver Cr.	Floyd	0.0 to 17.4	Pathogens
Right Fk. Beaver Cr. into Beaver Cr.	Floyd	0.0 to 17.4	Organic Enrichment (sewage) biological indicators
Right Fk. Beaver Cr. into Beaver Cr.	Floyd	0.0 to 17.4	pH
Right Fk. Beaver Cr. into Beaver Cr.	Floyd	0.0 to 17.4	Sedimentation/siltation
Right Fk. Beaver Cr. into Beaver Cr.	Floyd	0.0 to 17.4	Sulfates
Right Fk. Beaver Cr. into Beaver Cr.	Floyd	0.0 to 17.4	Total Dissolved Solids
Right Fk. Beaver Cr. into Beaver Cr.	Knott	30.3 to 33.4	Organic Enrichment (sewage) biological indicators
Right Fk. Beaver Cr. into Beaver Cr.	Knott	30.3 to 33.4	Sedimentation/siltation
Right Fk. Beaver Cr. into Beaver Cr.	Knott	30.3 to 33.4	Total Dissolved Solids
Rock Fk. into R Fk. Beaver Cr.	Floyd	0.0 to 7.0	Sedimentation/siltation
Rock Fk. into R Fk. Beaver Cr.	Floyd	0.0 to 7.0	Sulfates
Rock Fk. into R Fk. Beaver Cr.	Floyd	0.0 to 7.0	Total Dissolved Solids
Salisbury Br. into R. Fk. Beaver Cr.	Knott	0.0 to 1.8	Nutrient/eutrophication biological indicators
Salisbury Br. into R. Fk. Beaver Cr.	Knott	0.0 to 1.8	Sulfates
Salisbury Br. into R. Fk. Beaver Cr.	Knott	0.0 to 1.8	Total Dissolved Solids
Salt Lick Cr. into R. Fk. Beaver Cr.	Floyd	0.0 to 6.8	Impairment unknown
Salt Lick Cr. into R. Fk. Beaver Cr.	Floyd	0.0 to 6.8	Sedimentation/siltation
Salt Lick Cr. into R. Fk. Beaver Cr.	Floyd	0.0 to 6.8	Sulfates
Steele Cr. into R. Fk. Beaver Cr.	Floyd	0.0 to 2.4	Organic Enrichment (sewage) biological indicators
Steele Cr. into R. Fk. Beaver Cr.	Floyd	0.0 to 2.4	Sedimentation/siltation
Steele Cr. into R. Fk. Beaver Cr.	Floyd	0.0 to 2.4	Sulfates
Steele Cr. into R. Fk. Beaver Cr.	Floyd	0.0 to 2.4	Total Dissolved Solids

<b>Stream Name</b>	<b>County</b>	<b>River Miles</b>	<b>Pollutant</b>
Stephens Br. into R. Fk. Beaver Cr.	Floyd	0.0 to 2.6	Organic Enrichment (sewage) biological indicators
Stephens Br. into R. Fk. Beaver Cr.	Floyd	0.0 to 2.6	Sedimentation/siltation
Stephens Br. into R. Fk. Beaver Cr.	Floyd	0.0 to 2.6	Sulfates
Stephens Br. into R. Fk. Beaver Cr.	Floyd	0.0 to 2.6	Unionized ammonia
Turkey Cr. into R. Fk. Beaver Cr.	Floyd	0.0 to 5.9	Impairment unknown
Turkey Cr. into R. Fk. Beaver Cr.	Floyd	0.0 to 5.9	Sedimentation/siltation
Turkey Cr. into R. Fk. Beaver Cr.	Floyd	0.0 to 5.9	Sulfates
Wilson Cr. into R. Fk. Beaver Cr.	Floyd	0.0 to 2.9	Organic Enrichment (sewage) biological indicators
Wilson Cr. into R. Fk. Beaver Cr.	Floyd	0.0 to 2.9	Sedimentation/siltation
Wilson Cr. into R. Fk. Beaver Cr.	Floyd	0.0 to 2.9	Sulfates

KDOW has contracted Eastern Kentucky University to perform the monitoring for these segments. Monitoring began in 2007.



**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

**Chapter 8. Kentucky River Basin Unit 303(d) List**

The 303(d) List for the Kentucky River BMU follows, and the List continues for the other BMUs and the Ohio River Mainstem through Chapter 13. These chapters are presented with headings so the reader will know the BMU, subbasin (if any) and whether streams or lakes/reservoirs are listed on that page.

**8.1 Kentucky River Basin Streams**

Arnolds Creek into Ten Mile Creek Grant County  
From River Mile 0.0 to 10.8 Segment Length: 10.8  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Non-Irrigated Crop Production; Streambank  
Modifications/Destabilization

KDOW awarded \$159,000 in federal Section 319(h) Grant funds (FFY2005) to the Northern Kentucky Independent District Health Department to develop a Watershed Based Plan for the Ten Mile Creek watershed and to initiate straight pipe abatement.

Bailey Run into Kentucky River Anderson County  
From River Mile 0.0 to 2.9 Segment Length: 2.9  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
Suspected Sources: Post-Development Erosion and Sedimentation; Source  
Unknown; Unspecified Urban Stormwater

Balls Fork into Troublesome Creek Knott County  
From River Mile 8.3 to 11.3 Segment Length: 3.0  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
Suspected Sources: Managed Pasture Grazing; Non-Irrigated Crop Production;  
Post-Development Erosion and Sedimentation; Surface Mining

Bantas Fork into Salt River Henry County  
From River Mile 0.0 to 6.2 Segment Length: 6.2  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Agriculture; Habitat Modification - Other Than  
Hydromodification

**Kentucky Basin Unit  
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Baughman Fork into Boone Creek Fayette County  
From River Mile 0.0 to 2.7 Segment Length: 2.7  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators; Organic Enrichment  
(Sewage) Biological Indicators  
Suspected Sources: Livestock (Grazing or Feeding Operations); Municipal Point  
Source Dischargers

See Status of TMDLs Under Development Prior to 2006.

Beals Run into South Elkhorn Creek Woodford County  
From River Mile 0.0 to 1.9 Segment Length: 1.9  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Organic Enrichment (Sewage)  
Biological Indicators  
Suspected Sources: Highways, Roads, Bridges, Infrastructure (New Construction);  
Site Clearance (Land Development or Redevelopment);  
Livestock (Grazing or Feeding Operations)

Benson Creek into Kentucky River Franklin County  
From River Mile 0.0 to 4.6 Segment Length: 4.6  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Agriculture; Habitat Modification - Other Than  
Hydromodification

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$54,200 in federal Section 319(h) Grants (FFY1999 and 2000) to the Kentucky Division of Conservation and the Franklin County Conservation District to develop and implement Agriculture Water Quality Plans. Elkhorn Creek was the primary focus; however, technical assistance was provided throughout Franklin County.

Benson Creek into Kentucky River Franklin County  
From River Mile 4.6 to 6.7 Segment Length: 2.1  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
Indicators  
Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related);  
On-site Treatment Systems (Septic Systems and Similar  
Decentralized Systems); Agriculture; Habitat Modification -  
Other than Hydromodification

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$54,200 in federal Section 319(h) Grants (FFY1999 and 2000) to the Kentucky Division of Conservation and the Franklin County Conservation District to develop and implement Agriculture Water Quality Plans. Elkhorn Creek was the primary focus; however, technical assistance was provided throughout Franklin County

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

<u>Benson Creek into Kentucky River</u> From River Mile 6.7 to 13.4	Franklin County Segment Length: 6.7
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators
Suspected Sources:	Highway/Road/Bridge Runoff (Non-Construction Related); Agriculture; Habitat Modification - Other Than Hydromodification

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$54,200 in federal Section 319(h) Grants (FFY1999 and 2000) to the Kentucky Division of Conservation and the Franklin County Conservation District to develop and implement Agriculture Water Quality Plans. Elkhorn Creek was the primary focus; however, technical assistance was provided throughout Franklin County.

<u>Big Caney Creek into Quicksand Creek</u> From River Mile 0.3 to 8.0	Breathitt County Segment Length: 7.7
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation; Total Dissolved Solids; Turbidity
Suspected Sources:	Impacts from Abandoned Mine Lands (Inactive); Loss of Riparian Habitat; Silviculture Harvesting; Streambank Modifications/Destabilization; Subsurface (Hardrock) Mining; Surface Mining

<u>Big Twin Creek into Kentucky River</u> From River Mile 0.0 to 3.8	Owen County Segment Length: 3.8
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation
Suspected Sources:	Agriculture; Habitat Modification - Other Than Hydromodification

<u>Big Willard Creek into North Fork Kentucky River</u> From River Mile 0.0 to 4.5	Perry County Segment Length: 4.5
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Total Dissolved Solids; Turbidity
Suspected Sources:	Impacts from Abandoned Mine Lands (Inactive); Loss of Riparian Habitat; Silviculture Harvesting; Streambank Modifications/Destabilization; Subsurface (Hardrock) Mining; Surface Mining

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

Boone Creek into Kentucky River Fayette County  
From River Mile 7.4 to 12.6 Segment Length: 5.2  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators; Pathogens  
Suspected Sources: Livestock (Grazing or Feeding Operations)  
See Status of TMDLs Under Development Prior to 2006.

Brush Creek into Red River Powell County  
From River Mile 0.0 to 6.6 Segment Length: 6.6  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

Buckhorn Creek into Troublesome Creek Breathitt County  
From River Mile 0.0 to 2.4 Segment Length: 2.4  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens; Sedimentation/Siltation; Total Dissolved Solids; Turbidity  
Suspected Sources: Loss of Riparian Habitat; Silviculture Harvesting; Streambank Modifications/Destabilization; Source Unknown; Coal Mining

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 2.3. Based on NHD river miles, the river miles have been more accurately determined as 0.0 to 2.4.

Buckhorn Creek into Troublesome Creek Breathitt County  
From River Mile 2.4 to 6.8 Segment Length: 4.4  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
Suspected Sources: Impacts from Abandoned Mine Lands (Inactive)

Bull Creek into Collins Fork Knox County  
From River Mile 0.0 to 2.0 Segment Length: 2.0  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Non-Irrigated Crop Production

Cane Creek into Red River Powell County  
From River Mile 0.0 to 3.1 Segment Length: 3.1  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Livestock (Grazing or Feeding Operations)

See Status of TMDLs Under Development Prior to 2006.

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

Cane Run into North Elkhorn Creek Scott County  
 From River Mile 0.0 to 3.0 Segment Length: 3.0  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation

Suspected Sources: Managed Pasture Grazing; Non-Irrigated Crop Production

See TMDLs Planned for Development During 2007.

Cane Run into North Elkhorn Creek Scott County  
 From River Mile 3.0 to 9.6 Segment Length: 6.6  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport)

Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication  
 Biological Indicators; Pathogens

Suspected Sources: Highways, Roads, Bridges, Infrastructure (New Construction);  
 Landfills; Package Plant or Other Permitted Small Flows  
 Discharges; Livestock (Grazing or Feeding Operations)

See Status of TMDLs Under Development Prior to 2006 and TMDLs Planned for  
 Development During 2007.

Cane Run into North Elkhorn Creek Fayette County  
 From River Mile 9.6 to 17.4 Segment Length: 7.8  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
 (Nonsupport)

Pollutant(s): Pathogens; Organic Enrichment (Sewage) Biological  
 Indicators

Suspected Sources: Livestock (Grazing or Feeding Operations); Unspecified Urban  
 Stormwater

See Status of TMDLs Under Development Prior to 2006 and TMDLs Planned for  
 Development During 2007.

Caney Creek into Eagle Creek Owen County  
 From River Mile 0.0 to 1.5 Segment Length: 1.5  
 Impaired Use(s): Aquatic Life (Partial Support)

Pollutant(s): Sedimentation/Siltation; Organic Enrichment (Sewage)  
 Biological Indicators

Suspected Sources: Channelization; Loss of Riparian Habitat; Managed Pasture  
 Grazing

Cat Creek into Red River Powell County  
 From River Mile 0.0 to 8.0 Segment Length: 8.0

Impaired Use(s): Aquatic Life (Partial Support)

Pollutant(s): Sedimentation/Siltation

Suspected Sources: Loss of Riparian Habitat

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

Cedar Creek into Kentucky River Owen County  
From River Mile 0.0 to 9.4 Segment Length: 9.4  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Grazing in Riparian or Shoreline Zones; Highway/Road/Bridge Runoff (Non-Construction Related); Loss of Riparian Habitat; Managed Pasture Grazing; Silviculture Activities

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 2.2 to 6.7. Based on new assessments, the river miles have been more accurately determined as 0.0 to 9.4.

Chambers Fork into Baptist Fork Wolfe County  
From River Mile 0.7 to 1.1 Segment Length: 0.4  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing

Clarks Run into Dix River (Herrington Lake) Boyle County  
From River Mile 0.0 to 4.3 Segment Length: 4.3  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Municipal Point Source Discharges; Urban Runoff/Storm Sewers

See TMDLs Planned for Development During 2006. In 1999, the Dix River/Herrington Reservoir watershed was selected as one of five Clean Water Action Plan projects for focused and targeted multi-agency nonpoint source pollution control efforts. KDOW was awarded \$342,800 in federal Section 319(h) Grant funds (FFY2002) to develop and initiate implementation of a comprehensive Watershed Based Plan for the Dix River/Herrington Reservoir watershed. In 2004, the Bluegrass Personal Responsibility in a Desirable Environment (PRIDE) awarded approximately \$7,000 to the City of Danville to conduct a riparian reforestation effort. During 2004 and 2006, the Kentucky River Authority awarded approximately \$6,000 to the Boyle County High School to support volunteer Water Watch sampling and riparian buffer zone initiatives. In 2005, the Governor's Scholars students at Centre College completed stormwater drain stenciling throughout Danville to reduce storm drain dumping and to increase awareness of this nonpoint pollution source. The City of Danville is also currently contracting with Bluegrass PRIDE to implement stormwater education and outreach activities.

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

<u>Clarks Run into Dix River (Herrington Lake)</u>	Boyle County
From River Mile 4.3 to 6.6	Segment Length: 2.3
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Organic Enrichment (Sewage) Biological Indicators; Impairment Unknown	
Suspected Sources: Municipal Point Source Discharges; Unspecified Urban Stormwater	

See TMDLs Planned for Development During 2006. In 1999, the Dix River/Herrington Reservoir watershed was selected as one of five Clean Water Action Plan projects for focused and targeted multi-agency nonpoint source pollution control efforts. KDOW was awarded \$342,800 in federal Section 319(h) Grant funds (FFY2002) to develop and initiate implementation of a comprehensive Watershed Based Plan for the Dix River/Herrington Reservoir watershed. During 2004 and 2006, the Kentucky River Authority awarded approximately \$6,000 to the Boyle County High School to support volunteer Water Watch sampling and riparian buffer zone initiatives. In 2005, the Governor's Scholars students at Centre College completed stormwater drain stenciling throughout Danville to reduce storm drain dumping and to increase awareness of this nonpoint pollution source. The City of Danville is also currently contracting with Bluegrass PRIDE to assist with implementing stormwater permit requirements.

<u>Clarks Run into Dix River (Herrington Lake)</u>	Boyle County
From River Mile 8.1 to 13.5	Segment Length: 5.4
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Streambank Modifications/Destabilization	

In 1999, the Dix River/Herrington Reservoir watershed was selected as one of five Clean Water Action Plan projects for focused and targeted multi-agency nonpoint source pollution control efforts. KDOW was awarded \$342,800 in federal Section 319(h) Grant funds (FFY2002) to develop and initiate implementation of a comprehensive Watershed Based Plan for the Dix River/Herrington Reservoir watershed. During 2004 and 2006, the Kentucky River Authority awarded approximately \$6,000 to the Boyle County High School to support volunteer Water Watch sampling and riparian buffer zone initiatives. In 2005, the Governor's Scholars students at Centre College completed stormwater drain stenciling throughout Danville to reduce storm drain dumping and to increase awareness of this nonpoint pollution source. The City of Danville is also currently contracting with Bluegrass PRIDE to assist with implementing stormwater permit requirements.

<u>Collins Fork into Goose Creek</u>	Clay County
From River Mile 2.4 to 6.3	Segment Length: 3.9
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Habitat Modification - Other Than Hydromodification	

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

Cope Fork into Frozen Creek Breathitt County  
 From River Mile 0.0 to 1.9 Segment Length: 1.9  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
 Suspected Sources: Channelization; Loss of Riparian Habitat; Managed Pasture  
 Grazing; Non-Irrigated Crop Production; Streambank  
 Modifications/Destabilization; Surface Mining; Silviculture  
 Activities

Copper Creek into Dix River Rockcastle County  
 From River Mile 2.2 to 5.0 Segment Length: 2.8  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing

In 1999, the Dix River/Herrington Reservoir watershed was selected as one of five Clean Water Action Plan projects for focused and targeted multi-agency nonpoint source pollution control efforts. KDOW was awarded \$342,800 in federal Section 319(h) Grant funds (FFY2002) to develop and initiate implementation of a comprehensive Watershed Based Plan for the Dix River/Herrington Reservoir watershed.

Crane Creek into South Fork Kentucky River Clay County  
 From River Mile 0.0 to 5.4 Segment Length: 5.4  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Channelization; Loss of Riparian Habitat; Post-Development  
 Erosion and Sedimentation

Crystal Creek into Kentucky River Lee County  
 From River Mile 0.0 to 2.3 Segment Length: 2.3  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Organic Enrichment (Sewage) Biological Indicators  
 Suspected Sources: Landfills

Cutshin Creek into Middle Fork Kentucky River Leslie County  
 From River Mile 9.7 to 10.7 Segment Length: 1.0  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Loss of Riparian Habitat; Streambank  
 Modifications/Destabilization; Surface Mining



**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

Defeated Creek into Carr Creek Reservoir Knott County  
From River Mile 0.4 to 1.6 Segment Length: 1.2  
Impaired Use(s): Primary Contact Recreation (Nonsupport), Secondary Contact  
Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Dix River into Kentucky River Garrard County  
From River Mile 33.3 to 36.1 Segment Length: 2.8  
Impaired Use(s): Swimming (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Agriculture

Dry Run into North Elkhorn Creek Scott County  
From River Mile 0.0 to 3.1 Segment Length: 3.1  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
Indicators; Impairment Unknown  
Suspected Sources: Managed Pasture Grazing; Source Unknown

KDOW awarded \$158,500 in federal Section 319(h) Grant funds (FFY2004) to the Georgetown/Scott County Planning Commission to conduct an urban water quality demonstration project on land use BMP decision processes in the Dry Run watershed.

Eagle Creek into Kentucky River Owen County  
From River Mile 15.3 to 28.5 Segment Length: 13.2  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 14.4 to 27.3. Based on NHD river miles, the river miles have been more accurately determined as 15.3 to 28.5. KDOW awarded \$159,000 in federal Section 319(h) Grant funds (FFY2005) to the Northern Kentucky Independent District Health Department to develop a Watershed Based Plan for the Ten Mile Creek watershed and to initiate straight pipe abatement. During 2005, the Kentucky River Authority awarded approximately \$3,000 to the Kentucky Waterways Alliance to assist with start-up expenses for the Eagle Creek Watershed Council.

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

Eagle Creek into Kentucky River Grant County  
From River Mile 31.6 to 36.5 Segment Length: 4.9  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Managed Pasture Grazing; Crop Production (Crop Land or Dry Land)

See TMDLs Planned for Development During 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 29.9 to 34.5. Based on NHD river miles, the river miles have been more accurately determined as 31.6 to 36.5.

Eagle Creek into Kentucky River Grant County  
From River Mile 50.8 to 58.5 Segment Length: 7.7  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Livestock (Grazing or Feeding Operations); Crop Production (Crop Land or Dry Land)

See TMDLs Planned for Development During 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 48.6 to 55.9. Based on NHD river miles, the river miles have been more accurately determined as 50.8 to 58.5.

East Fork Otter Creek into Kentucky River Madison County  
From River Mile 0.0 to 2.7 Segment Length: 2.7  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Managed Pasture Grazing; Crop Production (Crop Land or Dry Land)

East Hickman Creek into Hickman Creek Fayette County  
From River Mile 4.2 to 10.2 Segment Length: 6.0  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Livestock (Grazing or Feeding Operations); Unspecified Urban Stormwater

See Status of TMDLs Under Development Prior to 2006.

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

East Hickman Creek into Hickman Creek Fayette County  
From River Mile 12.6 to 14.0 Segment Length: 1.4  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Unspecified Urban Stormwater

See Status of TMDLs Under Development Prior to 2006.

Elk Creek into Eagle Creek Owen County  
From River Mile 0.0 to 1.6 Segment Length: 1.6  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Loss of Riparian Habitat; Source Unknown

Elkhorn Creek into Kentucky River Franklin County  
From River Mile 0.0 to 18.2 Segment Length: 18.2  
Impaired Use(s): Fish Consumption (Partial Support), Primary Contact Recreation  
(Partial Support)  
Pollutant(s): Mercury; Pathogens  
Suspected Sources: Unknown; Agriculture

See TMDLs Under Development Prior to 2006

Flat Creek into Kentucky River Franklin County  
From River Mile 0.0 to 7.1 Segment Length: 7.1  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Agriculture; Habitat Modification - Other Than  
Hydromodification

KDOW awarded \$54,200 in federal Section 319(h) Grants (FFY1999 and 2000) to the Kentucky Division of Conservation and the Franklin County Conservation District to develop and implement Agriculture Water Quality Plans. Elkhorn Creek was the primary focus; however, technical assistance was provided throughout Franklin County.

Frozen Creek into North Fork Kentucky River Breathitt County  
From River Mile 0.0 to 13.9 Segment Length: 13.9  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat; Post-Development Erosion and  
Sedimentation

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Goose Creek into Benson Creek Shelby County  
From River Mile 0.0 to 1.8 Segment Length: 1.8  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Impairment Unknown  
Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related);  
Agriculture; Habitat Modification - Other Than  
Hydromodification

Goose Creek into Benson Creek Shelby County  
From River Mile 1.9 to 4.2 Segment Length: 2.3  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Grazing in Riparian or Shoreline Zones; Managed Pasture  
Grazing; Livestock (Grazing or Feeding Operations)

See Status of TMDLs Under Development Prior to 2006.

Goose Creek into South Fork Kentucky River Clay County  
From River Mile 0.0 to 8.3 Segment Length: 8.3  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Land Disposal (Onsite Wastewater Systems-Septic Tanks and/or  
Straight Pipes)

See Status TMDLs Planned for Development During 2006.

Grapevine Creek into North Fork of Kentucky River Perry County  
From River Mile 0.0 to 1.1 Segment Length: 1.1  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Turbidity  
Suspected Sources: Impacts from Abandoned Mine Lands (Inactive); Loss of  
Riparian Habitat; Silviculture Harvesting; Streambank  
Modifications/Destabilization; Subsurface (Hardrock) Mining;  
Surface Mining

Hanging Fork into Dix River Lincoln County  
From River Mile 0.0 to 15.0 Segment Length: 15.0  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Livestock (Grazing or Feeding Operations)

In 1999, the Dix River/Herrington Reservoir watershed was selected as one of five Clean Water Action Plan projects for focused and targeted multi-agency nonpoint source pollution control efforts. KDOW has awarded over \$750,000 in federal Section 319(h) Grants (FFY1999, FFY2001, and FFY2002), to the Kentucky Division of Conservation

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

and the Kentucky Heritage RC&D, Inc to implement agricultural BMPs in the Peyton Creek subwatershed, a tributary of Hanging Fork. More recently (FFY2002), KDOW was awarded \$342,800 to develop and initiate implementation of a comprehensive Watershed Based Plan for the Dix River/Herrington Reservoir watershed.

Hardwick Creek into Red River Powell County  
From River Mile 0.0 to 3.2 Segment Length: 3.2  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Livestock (Grazing or Feeding Operations)

See TMDLs Planned for Development During 2006.

Hatton Creek into Red River Powell County  
From River Mile 0.0 to 4.2 Segment Length: 4.2  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

Hawes Fork into Quicksand Creek Breathitt County  
From River Mile 0.0 to 4.4 Segment Length: 4.4  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Turbidity  
Suspected Sources: Impacts from Abandoned Mine Lands (Inactive); Loss of Riparian Habitat; Silviculture Harvesting; Streambank Modifications/Destabilization; Subsurface (Hardrock) Mining; Surface Mining

Hell Creek into North Fork Kentucky River Lee County  
From River Mile 0.0 to 3.5 Segment Length: 3.5  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Total Dissolved Solids  
Suspected Sources: Impacts from Abandoned Mine Lands (Inactive); Permitted Silvicultural Activities; Petroleum/Natural Gas Production Activities (Permitted); Surface Mining

Hickman Creek into Kentucky River Jessamine County  
From River Mile 0.0 to 6.0 Segment Length: 6.0  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Municipal Point Source Discharges; Livestock (Grazing or Feeding Operations)

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 25.5. Based on new assessments, the segment has been divided into two segments. This segment had been more accurately determined as 0.0 to 6.0.

<u>Hickman Creek into Kentucky River</u>	Jessamine County
From River Mile 6.0 to 25.5	Segment Length: 19.5
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators
Suspected Sources:	Municipal Point Source Discharges; Non-Irrigated Crop Production; Livestock (Grazing or Feeding Operations)

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 25.5. Based on new assessments, the segment has been divided into two segments. This segment had been more accurately determined as 6.0 to 25.5.

<u>Holly Creek into North Fork Kentucky River</u>	Wolfe County
From River Mile 0.0 to 6.2	Segment Length: 6.2
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation
Suspected Sources:	Heap-Leach Extraction Mining; Loss of Riparian Habitat; Streambank Modifications/Destabilization; Agriculture

<u>Horse Creek into Goose Creek</u>	Clay County
From River Mile 0.0 to 8.3	Segment Length: 8.3
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation
Suspected Sources:	Loss of Riparian Habitat; Managed Pasture Grazing; Surface Mining

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 6.8. Based on new assessments, the river miles have been more accurately determined as 0.0 to 8.3.

<u>Hunting Creek into Quicksand Creek</u>	Breathitt County
From River Mile 0.0 to 2.6	Segment Length: 2.6
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Turbidity
Suspected Sources:	Impacts from Abandoned Mine Lands (Inactive); Loss of Riparian Habitat; Silviculture Harvesting; Streambank Modifications/Destabilization; Subsurface (Hardrock) Mining; Surface Mining

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Streams**

<u>Indian Creek into Red River</u>	Menifee County
From River Mile 2.6 to 7.8	Segment Length: 5.2
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids	
Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related); Surface Mining	
<u>Johnson Fork into Lacy Creek</u>	Wolfe County
From River Mile 0.0 to 0.5	Segment Length: 0.5
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids	
Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing; Petroleum/Natural Gas Production Activities (Permitted); Residential Districts	
<u>Judy Creek into Red River</u>	Powell County
From River Mile 0.0 to 1.5	Segment Length: 1.5
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Impairment Unknown	
Suspected Sources: Source Unknown	
<u>Kentucky River into Ohio River</u>	Owen County
From River Mile 0.3 to 11.5	Segment Length: 11.2
Impaired Use(s): Fish Consumption (Nonsupport)	
Pollutant(s): Methylmercury	
Suspected Sources: Atmospheric Deposition - Toxics; Source Unknown	
<u>Kentucky River into Ohio River</u>	Franklin County
From River Mile 53.5 to 118.2	Segment Length: 64.7
Impaired Use(s): Fish Consumption (Nonsupport)	
Pollutant(s): Methylmercury	
Suspected Sources: Source Unknown	
<u>Kentucky River into Ohio River</u>	Jessamine County
From River Mile 154.0 to 210.0	Segment Length: 56.0
Impaired Use(s): Fish Consumption (Partial Support), Primary Contact Recreation (Partial Support)	
Pollutant(s): Methylmercury; Pathogens	
Suspected Sources: Source Unknown, Agriculture	

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

Lacy Creek into Red River Wolfe County  
From River Mile 0.0 to 7.3 Segment Length: 7.3  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Channelization; Heap-Leach Extraction Mining; Loss of Riparian Habitat; Streambank Modifications/Destabilization

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 1.8. Based on new assessments, the river miles have been more accurately determined as 0.0 to 7.3. The impaired use for this segment has changed from the 2004 listing. The 2004 list had the impaired use as unknown. Based on new assessments, the impairments have been more accurately determined as sediment/siltation and impairment unknown.

Laurel Creek into Goose Creek Clay County  
From River Mile 3.8 to 4.8 Segment Length: 1.0  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Managed Pasture Grazing; Non-Irrigated Crop Production

Left Fork Island Creek into Island Creek Owsley County  
From River Mile 0.0 to 5.0 Segment Length: 5.0  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Nonnative Fish, Shellfish, or Zooplankton;  
Sedimentation/Siltation  
Suspected Sources: Non-Irrigated Crop Production; Introduction of Non-native Organisms (Accidental or Intentional)

Left Fork Millstone Creek into Millstone Creek Letcher County  
From River Mile 1.6 to 2.9 Segment Length: 1.3  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport), Secondary Contact Recreation (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; pH  
Suspected Sources: Surface Mining

Lick Creek into Eagle Creek Carroll County  
From River Mile 0.0 to 5.4 Segment Length: 5.4  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related); Loss of Riparian Habitat; Post-Development Erosion and Sedimentation; Unspecified Urban Stormwater



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Kentucky River Basin  
Streams**

Line Fork into Defeated Creek Letcher County  
From River Mile 9.1 to 11.6 Segment Length: 2.5  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Surface Mining

Line Fork into Defeated Creek Letcher County  
From River Mile 11.6 to 27.5 Segment Length: 15.9  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Sewage Discharges in Unsewered Areas

Little Willard Creek into North Fork Kentucky River Perry County  
From River Mile 0.0 to 2.5 Segment Length: 2.5  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
Suspected Sources: Channelization; Loss of Riparian Habitat; Post-Development Erosion and Sedimentation; Site Clearance (Land Development or Redevelopment); Streambank Modifications/Destabilization; Surface Mining

Long Fork into Buckhorn Creek Breathitt County  
From River Mile 0.0 to 4.6 Segment Length: 4.6  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
Suspected Sources: Surface Mining

Lost Creek into Troublesome Creek Breathitt County  
From River Mile 0.0 to 3.7 Segment Length: 3.7  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Lost Creek into Troublesome Creek Breathitt County  
From River Mile 3.7 to 9.0 Segment Length: 5.2  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Turbidity  
Suspected Sources: Loss of Riparian Habitat; Silviculture Harvesting; Streambank Modifications/Destabilization; Coal Mining

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 3.8 to 10.2. Based on NHD river miles, the river miles have been more accurately determined as 3.7 to 9.0.

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

Lotts Creek into North Fork Kentucky River Perry County  
From River Mile 1.2 to 6.0 Segment Length: 4.8  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Turbidity  
Suspected Sources: Loss of Riparian Habitat; Silviculture Harvesting; Streambank Modifications/Destabilization; Coal Mining

Lotts Creek into Youngs Fork Knott County  
From River Mile 0.4 to 1.0 Segment Length: 0.6  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat; Site Clearance (Land Development or Redevelopment)

Lower Buffalo Creek into South Fork Kentucky River Owsley County  
From River Mile 0.0 to 2.4 Segment Length: 2.4  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat

Lower Howard Creek into Kentucky River Clark County  
From River Mile 2.7 to 6.2 Segment Length: 3.55  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators; Impairment Unknown  
Suspected Sources: Upstream Impoundments (e.g., PI-5Irrigated Crop Production NRCS Structures); Source Unknown; Livestock (Grazing or Feeding Operations)

Lulbegrud Creek into Red River Clark County  
From River Mile 0.0 to 7.3 Segment Length: 7.3  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Source Unknown

Marble Creek into Kentucky River Jessamine County  
From River Mile 0.1 to 3.9 Segment Length: 3.8  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Streambank Modifications/Destabilization

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Streams**

McConnell Run into North Fork Elkhorn Creek                      Scott County  
From River Mile 0.0 to 4.4                      Segment Length: 4.4  
Impaired Use(s):      Aquatic Life (Partial Support)  
Pollutant(s):           Sedimentation/Siltation; Nutrient/Eutrophication Biological  
                                 Indicators  
Suspected Sources:    Managed Pasture Grazing

See Status of TMDLs Under Development Prior to 2006.

Meadow Creek into South Fork Kentucky River                      Owsley County  
From River Mile 0.5 to 3.7                      Segment Length: 3.65  
Impaired Use(s):      Aquatic Life (Partial Support)  
Pollutant(s):           Sedimentation/Siltation  
Suspected Sources:    Loss of Riparian Habitat; Managed Pasture Grazing;  
                                 Non-Irrigated Crop Production

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 3.7. Based on NHD river miles, the river miles have been more accurately determined as 0.5 to 3.7.

Middle Fork Kentucky River into Kentucky River                      Leslie County  
From River Mile 61.5 to 64.2                      Segment Length: 2.7  
Impaired Use(s):      Primary Contact Recreation (Nonsupport), Secondary Contact  
                                 Recreation (Nonsupport)  
Pollutant(s):           Pathogens  
Suspected Sources:    Source Unknown

Middle Fork Kentucky River into Kentucky River                      Leslie County  
From River Mile 67.0 to 73.4                      Segment Length: 6.4  
Impaired Use(s):      Aquatic Life (Partial Support), Primary Contact Recreation  
                                 (Partial Support)  
Pollutant(s):           Sedimentation/Siltation; Total Dissolved Solids; Pathogens  
Suspected Sources:    Loss of Riparian Habitat; Non-Irrigated Crop Production;  
                                 Petroleum/Natural Gas Activities; Rangeland Grazing; Surface  
                                 Mining; Source Unknown; Agriculture; Reclamation of Inactive  
                                 Mining

Mill Creek into Rockhouse Creek    Letcher County  
From River Mile 0.0 to 3.3                      Segment Length: 3.3  
Impaired Use(s):      Aquatic Life (Nonsupport)  
Pollutant(s):           Sedimentation/Siltation; Total Suspended Solids (TSS)  
Suspected Sources:    Highway/Road/Bridge Runoff (Non-Construction Related);  
                                 Loss of Riparian Habitat; Petroleum/Natural Gas Production  
                                 Activities (Permitted); Surface Mining

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

Mocks Branch into Dix River (Herrington Lake) Boyle County  
From River Mile 1.6 to 5.7 Segment Length: 4.1  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat; Streambank  
Modifications/Destabilization

In 1999, the Dix River/Herrington Reservoir watershed was selected as one of five Clean Water Action Plan projects for focused and targeted multi-agency nonpoint source pollution control efforts. KDOW has awarded several Section 319(h) Grants to the Kentucky Division of Conservation and the Kentucky Heritage RC&D, Inc. to implement watershed restoration strategies: (1) \$185,773 to develop an HSPF model (FFY1997) and (2) \$121,000 to implement agricultural BMPs in the Mocks/Spears Branch subwatersheds (FFY1999). More recently (FFY2002), KDOW was awarded \$342,800 to develop and initiate implementation of a comprehensive Watershed Based Plan for the Dix River/Herrington Reservoir watershed.

Muddy Creek into Kentucky River Madison County  
From River Mile 0.0 to 20.2 Segment Length: 20.2  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Livestock (Grazing or Feeding Operations)

See TMDLs Planned for Development During 2006.

Muncy Creek into Middle Fork Kentucky River Leslie County  
From River Mile 2.7 to 4.7 Segment Length: 2.0  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat; Post-Development Erosion and  
Sedimentation

Noland Creek into Kentucky River Estill County  
From River Mile 0.1 to 1.2 Segment Length: 1.1  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Crop Production (Crop Land or Dry Land)

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

<u>North Benson Creek into Benson Creek</u> From River Mile 0.8 to 2.0	Franklin County Segment Length: 1.2
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Highway/Road/Bridge Runoff (Non-Construction Related); Highways, Roads, Bridges, Infrastructure (New Construction); Agriculture

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$54,200 in federal Section 319(h) Grants (FFY1999 and 2000) to the Kentucky Division of Conservation and the Franklin County Conservation District to develop and implement Agriculture Water Quality Plans. Elkhorn Creek was the primary focus; however, technical assistance was provided throughout Franklin County.

<u>North Elkhorn Creek into Elkhorn Creek</u> From River Mile 66.0 to 73.8	Fayette County Segment Length: 7.8
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Highway/Road/Bridge Runoff (Non-Construction Related); Highways, Roads, Bridges, Infrastructure (New Construction); Municipal Point Source Discharges; Site Clearance (Land Development or Redevelopment); Source Unknown; Agriculture; Habitat Modification - Other Than Hydromodification; Urban Runoff/Storm Sewers

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 65.0 to 73.7. Based on NHD river miles, the river miles have been more accurately determined as 66.0 to 73.8.

<u>North Fork Kentucky River into Kentucky River</u> From River Mile 145.5 to 147.9	Letcher County Segment Length: 2.4
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Sedimentation/Siltation
Suspected Sources:	Non-Irrigated Crop Production; Crop Production (Crop Land or Dry Land); Habitat Modification - Other Than Hydromodification; Urban Runoff/Storm Sewers

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 142.6 to 147.7. Based on new assessments, the river miles have been more accurately determined as 145.5 to 147.9.

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

North Fork Kentucky River into Kentucky River Letcher County  
From River Mile 147.9 to 162.0 Segment Length: 14.1  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Grazing in Riparian or Shoreline Zones; Livestock (Grazing or Feeding Operations); Crop Production (Crop Land or Dry Land); Silviculture Activities; Urban Runoff/Storm Sewers

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 147.7 to 158.0. Based on new assessments, the river miles have been more accurately determined as 147.9 to 162.0.

North Fork North Benson Creek into North Benson Franklin County  
From River Mile 0.0 to 2.2 Segment Length: 2.2  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Loss of Riparian Habitat; Post-Development Erosion and Sedimentation; Agriculture

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$54,200 in federal Section 319(h) Grants (FFY1999 and 2000) to the Kentucky Division of Conservation and the Franklin County Conservation District to develop and implement Agriculture Water Quality Plans. Elkhorn Creek was the primary focus; however, technical assistance was provided throughout Franklin County.

Paint Lick Creek into Kentucky River Garrard County  
From River Mile 0.0 to 7.5 Segment Length: 7.5  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Livestock (Grazing or Feeding Operations)

See TMDLs Planned for Development During 2006.

Plum Branch into Red River Powell County  
From River Mile 0.0 to 3.9 Segment Length: 3.9  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat; Streambank Modifications/Destabilization; Agriculture

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 2.9. Based on NHD river miles, the river miles have been more accurately determined as 0.0 to 3.9. The impaired use for this segment has changed from the 2004 listing. The 2004 list had the impaired use as unknown. Based on new assessments, the impairments have been more accurately determined as sediment/siltation and impairment unknown.

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

Polls Creek into Cutshin Creek Leslie County  
From River Mile 0.0 to 4.7 Segment Length: 4.7  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

Potter Fork into Boone Fork Letcher County  
From River Mile 0.0 to 4.4 Segment Length: 4.4  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)

See Status of TMDLs Under Development Prior to 2006.

Puncheon Camp Creek into Middle Fork Kentucky Breathitt County  
From River Mile 0.0 to 3.2 Segment Length: 3.2  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

Quicksand Creek into North Fork Kentucky River Breathitt County  
From River Mile 0.0 to 17.0 Segment Length: 17.0  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens; Turbidity; Impairment Unknown  
Suspected Sources: Impacts from Abandoned Mine Lands (Inactive); Loss of Riparian Habitat; Silviculture Harvesting; Streambank Modifications/Destabilization; Source Unknown; Coal Mining

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.55 to 12.7. Based on NHD river miles, the river miles have been more accurately determined as 0.0 to 17.0. The impaired use for this segment has changed from the 2004 listing. The 2004 list had the impaired use as unknown. Based on new assessments, the impairments have been more accurately determined as pathogens, turbidity, and impairment unknown.

Quicksand Creek into North Fork Kentucky River Breathitt County  
From River Mile 21.7 to 30.8 Segment Length: 9.1  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Turbidity  
Suspected Sources: Impacts from Abandoned Mine Lands (Inactive); Loss of Riparian Habitat; Streambank Modifications/Destabilization; Surface Mining; Habitat Modification - Other Than Hydromodification; Coal Mining; Silviculture Activities

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 20.8 to 29.4. Based on NHD river miles, the river miles have been more accurately determined as 21.7 to 30.8.

Rattlesnake Creek into Eagle Creek Grant County  
From River Mile 0.0 to 1.2 Segment Length: 1.2  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown; Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

Red Bird River into South Fork Kentucky River Clay County  
From River Mile 0.0 to 15.0 Segment Length: 15.0  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Land Disposal (Onsite Wastewater Systems-Septic Tanks and/or Straight Pipes)

See TMDLs Planned for Development During 2006

Red Lick Creek into Station Camp Creek Madison County  
From River Mile 0.0 to 8.4 Segment Length: 8.4  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Site Clearance (Land Development or Redevelopment); Source Unknown

Red River into Kentucky River Wolfe County  
From River Mile 64.1 to 67.6 Segment Length: 3.5  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing

During 2005 and 2006, the Kentucky River Authority awarded approximately \$7,000 to the Appalachian Heritage Alliance to conduct solid waste clean-up events and to provide hands-on watershed education for Powell County High School students.

Red River into Kentucky River Wolfe County  
From River Mile 70.0 to 83.9 Segment Length: 13..9  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing; Crop Production (Crop Land or Dry Land)



**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

During 2005 and 2006, the Kentucky River Authority awarded approximately \$7,000 to the Appalachian Heritage Alliance to conduct solid waste clean-up events and to provide hands-on watershed education for Powell County High School students.

<u>Red River into Kentucky River</u>	Wolfe County
From River Mile 89.5 to 93.4	Segment Length: 3.9
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Crop Production (Crop Land or Dry Land)	

During 2005 and 2006, the Kentucky River Authority awarded approximately \$7,000 to the Appalachian Heritage Alliance to conduct solid waste clean-up events and to provide hands-on watershed education for Powell County High School students.

<u>Richland Creek into Eagle Creek</u>	Owen County
From River Mile 0.0 to 0.8	Segment Length: 0.8
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Specialty Crop Production	

<u>Right Fork Buffalo Creek into Buffalo Creek</u>	Owsley County
From River Mile 0.0 to 2.1	Segment Length: 2.1
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Impairment Unknown	
Suspected Sources: Source Unknown	

<u>Right Fork Lacy Creek into Lacy Creek</u>	Wolfe County
From River Mile 0.0 to 2.2	Segment Length: 2.2
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Crop Production (Crop Land or Dry Land)	

<u>Right Fork Millstone Creek into Millstone Creek</u>	Letcher County
From River Mile 0.0 to 1.6	Segment Length: 1.6
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids	
Suspected Sources: Surface Mining	

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

Rockhouse Creek into North Fork Kentucky River Letcher County  
From River Mile 0.0 to 3.6 Segment Length: 3.6  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Pathogens; Turbidity  
Suspected Sources: Impacts from Abandoned Mine Lands (Inactive); Loss of Riparian Habitat; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Silviculture Harvesting; Streambank Modifications/Destabilization; Subsurface (Hardrock) Mining; Surface Mining

Rose Fork into Red River Wolfe County  
From River Mile 0.0 to 3.1 Segment Length: 3.1  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Crop Production (Crop Land or Dry Land)

Sexton Creek into Goose Creek Clay County  
From River Mile 0.1 to 17.2 Segment Length: 17.1  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related); Crop Production (Crop Land or Dry Land)

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 9.1 to 16.1. Based on new assessments, the river miles have been more accurately determined as 0.1 to 17.2. The 2004 list had the segment 9.1 to 16.1 listed for pH impairment. Based on new assessment data, a delisting request has been sent for the river miles 9.1 to 16.1 for pH.

Silver Creek into Kentucky River Madison County  
From River Mile 0.0 to 11.1 Segment Length: 11.1  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 10.9. Based on NHD river miles, the river miles have been more accurately determined as 0.0 to 11.1.

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

<u>Silver Creek into Kentucky River</u> From River Mile 11.2 to 29.8	Madison County Segment Length: 18.6
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing; Non-Irrigated Crop Production; Post-Development Erosion and Sedimentation	

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 10.9 to 29.2. Based on NHD river miles, the river miles have been more accurately determined as 11.2 to 29.8.

<u>Snow Creek into Lulbegrud Creek</u> From River Mile 0.0 to 3.9	Powell County Segment Length: 3.9
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing; Post-Development Erosion and Sedimentation	

<u>South Elkhorn Creek into Elkhorn Creek</u> From River Mile 5.0 to 16.6	Franklin County Segment Length: 11.6
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Chlorine; Sedimentation/Siltation; Total Dissolved Solids	
Suspected Sources: Erosion from Derelict Land (Barren Land); Loss of Riparian Habitat; Managed Pasture Grazing; Municipal Point Source Discharges; Non-Irrigated Crop Production; Package Plant or Other Permitted Small Flows Discharges; Sediment Resuspension (Clean Sediment)	

KDOW awarded \$54,400 in federal Section 319(h) Grants (FFY1999 and FFY2000) to the Kentucky Division of Conservation and the Franklin County Conservation District to assist agricultural landowners with developing and implementing Agriculture Water Quality Plans in the Elkhorn Creek watershed.

<u>South Elkhorn Creek into Elkhorn Creek</u> From River Mile 16.6 to 34.5	Woodford County Segment Length: 17.6
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)	
Pollutant(s): Chlorine; Sedimentation/Siltation; Total Dissolved Solids; Nutrient Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators	
Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing; Municipal Point Source Discharges; Non-Irrigated Crop Production; Rangeland Grazing; Livestock (Grazing or Feeding Operations); Agriculture; Manure Runoff; Urban Runoff/Storm Sewers	

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

See TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 16.4 to 34.0. Based on (new assessments, NHD river miles), the river miles have been more accurately determined as 16.6 to 34.5.

<u>South Elkhorn Creek into Elkhorn Creek</u>	Woodford County
From River Mile 34.5 to 52.7	Segment Length: 18.7
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Chlorine; Sedimentation/Siltation; Total Dissolved Solids; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Loss of Riparian Habitat; Managed Pasture Grazing; Municipal Point Source Discharges; Non-Irrigated Crop Production; Post-Development Erosion and Sedimentation

The river miles for this segment have changed from the 2004 listing. The 2004 list had two separate segments for the river miles 34.0 to 35.2 and 39.9 to 48.0. Based on NHD river miles and new assessment data, the two segments have been combined into one listing. The river miles for the combined segment have been more accurately determined as 34.5 to 52.7. The impaired use for this segment has changed from the 2004 listing. The 2004 list had the impaired use as unknown. Based on new assessments, the impairments have been more accurately determined as chlorine, sediment/siltation, total dissolved solids and organic enrichment.

<u>South Fork Quicksand Creek into Quicksand Creek</u>	Breathitt County
From River Mile 0.0 to 16.9	Segment Length: 16.9
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Total Dissolved Solids
Suspected Sources:	Loss of Riparian Habitat; Petroleum/Natural Gas Production Activities (Permitted); Surface Mining

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 8.0. Based on new assessments, the river miles have been more accurately determined as 0.0 to 16.9.

<u>Spears Creek into Mocks Branch</u>	Boyle County
From River Mile 0.1 to 6.3	Segment Length: 6.2
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators
Suspected Sources:	Loss of Riparian Habitat; Managed Pasture Grazing; Streambank Modifications/Destabilization

In 1999, the Dix River/Herrington Reservoir watershed was selected as one of five Clean Water Action Plan projects for focused and targeted multi-agency nonpoint source

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

pollution control efforts. KDOW has awarded several Section 319(h) Grants to the Kentucky Division of Conservation and the Kentucky Heritage RC&D, Inc. to implement watershed restoration strategies: (1) \$185,773 to develop an HSPF model (FFY1997) and (2) \$121,000 to implement agricultural BMPs in the Mocks/Spears Branch subwatersheds (FFY1999). More recently (FFY2002), KDOW was awarded \$342,800 to develop and initiate implementation of a comprehensive Watershed Based Plan for the Dix River/Herrington Reservoir watershed.

Spring Fork into Quicksand Creek Breathitt County  
 From River Mile 3.1 to 6.9 Segment Length: 3.8  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Turbidity  
 Suspected Sources: Impacts from Abandoned Mine Lands (Inactive); Loss of Riparian Habitat; Silviculture Harvesting; Streambank Modifications/Destabilization; Subsurface (Hardrock) Mining; Surface Mining

Squabble Creek into Middle Fork Kentucky River Perry County  
 From River Mile 0.0 to 4.7 Segment Length: 4.7  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
 Suspected Sources: Loss of Riparian Habitat; Site Clearance (Land Development or Redevelopment); Surface Mining

Station Camp Creek into Kentucky River Jackson County  
 From River Mile 0.0 to 21.3 Segment Length: 21.3  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing; Non-Irrigated Crop Production; Other Recreational Pollution

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 7.2. Based on new assessments, the river miles have been more accurately determined as 0.0 to 21.3.

Stevens Creek into Eagle Creek Owen County  
 From River Mile 14.5 to 17.3 Segment Length: 2.7  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Managed Pasture Grazing

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 14.4 to 17.1. Based on (new assessments, NHD river miles), the river miles have been more accurately determined as 14.5 to 17.3.

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

Stillwater Creek into Red River Wolfe County  
From River Mile 0.0 to 3.5 Segment Length: 3.5  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Heap-Leach Extraction Mining; Loss of Riparian Habitat;  
Agriculture

Stinnett Creek into Middle Fork Kentucky River Leslie County  
From River Mile 1.3 to 4.7 Segment Length: 3.4  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat; Residential Districts; Site Clearance  
(Land Development or Redevelopment)

Sturgeon Creek into Kentucky River Lee County  
From River Mile 8.0 to 12.2 Segment Length: 4.2  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat; Non-Irrigated Crop Production;  
Surface Mining

Sugar Creek into Kentucky River Garrard County  
From River Mile 4.8 to 6.0 Segment Length: 1.2  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Total Dissolved Solids  
Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related)

Sulphur Creek into Drennon Creek Henry County  
From River Mile 0.0 to 1.4 Segment Length: 1.4  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
Indicators  
Suspected Sources: Agriculture; Habitat Modification - Other Than  
Hydromodification

Swift Camp Creek into Red River Wolfe County  
From River Mile 0.0 to 13.8 Segment Length: 13.8  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 13.6. Based on NHD river miles, the river miles have been more accurately determined as 0.0 to 13.8.

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

<u>Tate Creek into Kentucky River</u>	Madison County
From River Mile 0.0 to 6.5	Segment Length: 6.5
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Municipal Point Source Discharges; Livestock (Grazing or Feeding Operations); Crop Production (Crop Land or Dry

See Status of TMDLs Under Development Prior to 2006.

<u>Ten Mile Creek into Eagle Creek</u>	Grant County
From River Mile 0.0 to 2.9	Segment Length: 2.9
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Partial Support)
Pollutant(s):	Pathogens; Impairment Unknown
Suspected Sources:	Source Unknown

KDOW awarded \$159,000 in federal Section 319(h) Grant funds (FFY2005) to the Northern Kentucky Independent District Health Department to develop a Watershed Based Plan for the Ten Mile Creek watershed and to initiate straight pipe abatement.

<u>Three Forks Creek into Eagle Creek</u>	Grant County
From River Mile 0.0 to 7.6	Segment Length: 7.6
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation
Suspected Sources:	Source Unknown

<u>Town Branch into South Elkhorn Creek</u>	Fayette County
From River Mile 0.0 to 9.2	Segment Length: 9.2
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Pathogens; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Municipal Point Source Discharges; Agriculture; Urban Runoff/Storm Sewers

KDOW awarded \$314,114 in federal Section 319(h) Grant funds (FFY2003) to the Lexington-Fayette Urban County Government to restore the McConnell Springs stormwater quality wetland pond.

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

Town Branch into South Elkhorn Creek Fayette County  
From River Mile 9.2 to 10.6 Segment Length: 1.4  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
(Nonsupport)  
Pollutant(s): Pathogens; Nutrient/Eutrophication Biological Indicators;  
Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Municipal Point Source Discharges; Urban Runoff/Storm Sewers

Town Branch into South Elkhorn Creek Fayette County  
From River Mile 10.6 to 12.1 Segment Length: 1.6  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

KDOW awarded \$314,114 in federal Section 319(h) Grant funds (FFY2003) to the Lexington-Fayette Urban County Government to restore the McConnell Springs stormwater quality wetland pond.

Trace Fork into Carr Creek Lake Knott County  
From River Mile 0.2 to 2.4 Segment Length: 2.2  
Impaired Use(s): Primary Contact Recreation (Nonsupport), Secondary Contact  
Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Troublesome Creek into North Fork Kentucky River Breathitt County  
From River Mile 0.0 to 45.1 Segment Length: 45.1  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Turbidity  
Suspected Sources: Municipal Point Source Discharges; Petroleum/Natural Gas  
Activities; Petroleum/Natural Gas Production Activities  
(Permitted); Coal Mining

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 25.2 to 31.4. Based on new assessments, the river miles have been more accurately determined as 0.0 to 45.1.

Upper Devil Creek into North Fork Kentucky River Wolfe County  
From River Mile 0.0 to 1.0 Segment Length: 1.0  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Impacts from Abandoned Mine Lands (Inactive); Surface  
Mining; Reclamation of Inactive Mining; Inappropriate Waste  
Disposal; Silviculture Activities



**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

The impaired use for this segment has changed from the 2004 listing. The 2004 list had the impaired use as unknown. Based on new assessments, the impairment has been more accurately determined as sediment/siltation.

<u>Upper Howard Creek into Kentucky River</u>	Clark County
From River Mile 0.0 to 3.2	Segment Length: 3.2
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation; Impairment Unknown	
Suspected Sources: Rangeland Grazing; Source Unknown	

The impaired use for this segment has changed from the 2004 listing. The 2004 list had the impaired use as unknown. Based on new assessments, the impairments have been more accurately determined as sediment/siltation and impairment unknown.

<u>Upper Twin Creek into Middle Fork Kentucky River</u>	Breathitt County
From River Mile 0.0 to 3.6	Segment Length: 3.6
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Impairment Unknown	
Suspected Sources: Source Unknown	

<u>UT of Cane Run into Cane Run</u>	Scott County
From River Mile 0.0 to 3.5	Segment Length: 3.5
Impaired Use(s): Primary Contact Recreation (Nonsupport)	
Pollutant(s): Pathogens	
Suspected Sources: Livestock (Grazing or Feeding Operations)	

<u>UT to Engle Fork into Engle Fork</u>	Perry County
From River Mile 0.0 to 0.5	Segment Length: 0.5
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Sedimentation/Siltation; Temperature, Water; Total Dissolved Solids	
Suspected Sources: Channelization; Loss of Riparian Habitat; Surface Mining	

<u>UT to N. Br. Lulbehrud Cr. into N. Br. Lulbehrud Cr.</u>	Montgomery County
From River Mile 0.0 to 2.2	Segment Length: 2.2
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Impairment Unknown	
Suspected Sources: Source Unknown	

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

UT to North Elkhorn Creek into North Elkhorn Creek Fayette County  
From River Mile 0.0 to 5.6 Segment Length: 5.6  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids;  
Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing;  
Post-Development Erosion and Sedimentation; Streambank  
Modifications/Destabilization

UT to Smith Fork into Smith Fork Madison County  
From River Mile 0.0 to 0.55 Segment Length: 0.55  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Heap-Leach Extraction Mining; Agriculture

UT to Swift Camp Creek into Swift Camp Creek Wolfe County  
From River Mile 0.0 to 1.5 Segment Length: 1.5  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat; Post-Development Erosion and  
Sedimentation; Septage Disposal

See Status of TMDLs Under Development Prior to 2006.

West Fork Mill Creek into Mill Creek Carroll County  
From River Mile 0.0 to 1.0 Segment Length: 1.0  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related);  
Loss of Riparian Habitat; Streambank  
Modifications/Destabilization; Unspecified Urban Stormwater

West Hickman Creek into Hickman Creek Jessamine County  
From River Mile 0.0 to 3.0 Segment Length: 3.0  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Partial  
Support)  
Pollutant(s): Pathogens; Organic Enrichment (Sewage) Biological  
Indicators  
Suspected Sources: Municipal Point Source Discharges; Unspecified Urban  
Stormwater

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$373,560 in federal Section 319(h) Grant funds (FFY2003) to the Lexington-Fayette Urban County Government to implement stormwater controls (i.e., retention basin retrofit) in the Gainesway community in the West Hickman Creek watershed.

**Kentucky Basin Unit  
Kentucky River Basin  
Streams**

West Hickman Creek into Hickman Creek Jessamine County  
From River Mile 3.0 to 8.6 Segment Length: 5.6  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Organic Enrichment (Sewage)  
Biological Indicators  
Suspected Sources: Unspecified Urban Stormwater

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$373,560 in federal Section 319(h) Grant funds (FFY2003) to the Lexington-Fayette Urban County Government to implement stormwater controls (i.e., retention basin retrofit) in the Gainesway community in the West Hickman Creek watershed.

White Lick Creek into Paint Lick Creek Garrard County  
From River Mile 0.0 to 2.8 Segment Length: 2.8  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Total Suspended Solids (TSS)  
Suspected Sources: Non-Irrigated Crop Production; Specialty Crop Production

White Oak Creek into Dix River Garrard County  
From River Mile 0.0 to 2.8 Segment Length: 2.8  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids;  
Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing; Municipal Point Source Discharges

Wolf Run into Town Branch Fayette County  
From River Mile 0.0 to 4.1 Segment Length: 4.1  
Impaired Use(s): Primary Contact Recreation (Nonsupport); Aquatic Life (Partial Support)  
Pollutant(s): Pathogens; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Channelization; Unspecified Urban Stormwater

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$314,114 in federal Section 319(h) Grant funds (FFY2003) to the Lexington-Fayette Urban County Government to restore the McConnell Springs stormwater quality wetland pond. During 2006, the Kentucky River Authority awarded approximately \$3,000 to the Friends of Wolf Run to improve riparian buffers, provide lawn testing for fertilizer needs and to conduct community education efforts.

Wooten Creek into Cutshin Creek Leslie County  
From River Mile 0.0 to 3.0 Segment Length: 3.0  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

**Kentucky Basin Unit  
Kentucky River Basin  
Lakes**

**8.2 Kentucky River Basin Lakes**

Boltz Lake

Grant County  
Acres: 92

Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Oxygen, Dissolved; Nutrient/Eutrophication Biological  
Suspected Sources: Agriculture; Unspecified Urban Stormwater

Bullock Pen Lake

Grant County  
Acres: 134

Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Oxygen, Dissolved; Nutrient/Eutrophication Biological  
Suspected Sources: On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Agriculture

Carr Creek

Knott County  
Acres: 710

Impaired Use(s): Aquatic Life (Partial Support), Secondary Contact Recreation (Partial Support)  
Pollutant(s): Oxygen, Dissolved; Sedimentation/Siltation; Total Suspended Solids (TSS); Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Surface Mining; Source Unknown

Cedar Creek

Lincoln County  
Acres: 784

Impaired Use(s): Fish Consumption (Partial Support)  
Pollutant(s): Methylmercury  
Suspected Sources: Source Unknown

Elmer Davis Lake

Owen County  
Acres: 149

Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Oxygen, Dissolved; Nutrient/Eutrophication Biological  
Suspected Sources: Agriculture

Herrington Lake

Garrard County  
Acres: 2940

Impaired Use(s): Aquatic Life (Nonsupport), Fish Consumption (Partial Support)  
Pollutant(s): Methylmercury; Oxygen, Dissolved; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Internal Nutrient Recycling; Municipal Point Source Discharges; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Source Unknown; Agriculture

**Kentucky Basin Unit  
Kentucky River Basin  
Lakes**

See TMDLs Planned for Development During 2006. In 1999, the Dix River/Herrington Reservoir watershed was selected as one of five Clean Water Action Plan projects for focused and targeted multi-agency nonpoint source pollution control efforts. KDOW has awarded over \$1.0 million in Section 319(h) Grants to the Kentucky Division of Conservation and the Kentucky Heritage RC&D, Inc to develop an HSPF model (FFY1997), implement agricultural BMPs in the Mocks/Spears Branch subwatersheds (FFY1999), and implement agricultural BMPs in the Peyton Creek subwatershed (FFY1999, FFY2001, and FFY2002). More recently (FFY2002), KDOW was awarded \$342,800 to develop and initiate implementation of a comprehensive Watershed Based Plan for the Dix River/Herrington Reservoir watershed.

Lake Reba

Madison County

Acres: 78

Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Oxygen, Dissolved; Nutrient/Eutrophication Biological  
Suspected Sources: Golf Courses; Unspecified Urban Stormwater

Panbowl Lake

Breathitt County

Acres: 98

Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Oxygen, Dissolved; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Internal Nutrient Recycling; Septage Disposal

Stanford City Lake (Rice Lake)

Lincoln County

Acres: 43

Impaired Use(s): Drinking Water (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

Wilgreen Lake

Madison County

Acres: 169

Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Oxygen, Dissolved; Nutrient/Eutrophication Biological  
Suspected Sources: Non-Irrigated Crop Production; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Livestock (Grazing or Feeding Operations)

**Salt-Licking Basin Unit  
Licking River Basin  
Streams**

**Chapter 9. Salt-Licking Basin Unit 303(d) List**

**9.1 Licking River Basin Streams**

<u>Allison Creek into Fleming Creek</u>	Fleming County
From River Mile 0.0 to 4.9	Segment Length: 4.9
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Phosphorus (Total); Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Agriculture

See Status of TMDLs Under Development Prior to 2006. Since 1998, KDOW has awarded over \$1.5 million in federal Section 319(h) Grant funds (FFY1997, 1999, 2000 & 2004) to the Kentucky Division of Conservation and the Fleming County Conservation District to implement watershed restoration activities focusing on agriculture in the Fleming Creek watershed. In 1999, Fleming Creek was selected as one of five Clean Water Action Plan projects for focused and targeted multi-agency nonpoint source pollution control efforts.

<u>Banklick Creek into Licking River</u>	Kenton County
From River Mile 0.0 to 3.5	Segment Length: 3.5
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Pathogens; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Highways, Roads, Bridges, Infrastructure (New Construction); Municipal Point Source Discharges; Unspecified Urban Stormwater; Urban Runoff/Storm Sewers

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 8.2. Based on new assessments the segment has been split. Sanitation District 1 (SD1) of Northern Kentucky was awarded a line-item appropriation of \$475,000 to develop and apply a Watershed Assessment Protocol to Banklick Creek. SD1 has signed a Consent Decree with state and federal regulators to apply an innovative adaptive watershed management approach to addressing sewer overflows and water quality in Northern Kentucky. The Banklick Watershed Council (BWC) was awarded \$117,260 in federal 104(b)(3) grant funds to develop a watershed Action Plan; BWC intends to apply for FFY2007 federal Section 319(h) Grant funds to continue their watershed planning process and to begin implementation of remedial measures.

**Salt-Licking Basin Unit  
Licking River Basin  
Streams**

<u>Banklick Creek into Licking River</u> From River Mile 3.5 to 8.2	Kenton County Segment Length: 4.7
Impaired Use(s):	Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Agriculture

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 8.2. Based on new assessments the segment has been split. Sanitation District 1 (SD1) of Northern Kentucky was awarded a line-item appropriation of \$475,000 to develop and apply a Watershed Assessment Protocol to Banklick Creek. SD1 has signed a Consent Decree with state and federal regulators to apply an innovative adaptive watershed management approach to addressing sewer overflows and water quality in Northern Kentucky. The Banklick Watershed Council (BWC) was awarded \$117,260 in federal 104(b)(3) grant funds to develop a watershed Action Plan; BWC intends to apply for FFY2007 federal Section 319(h) Grant funds to continue their watershed planning process and to begin implementation of remedial measures.

<u>Banklick Creek into Licking River</u> From River Mile 8.2 to 19.2	Kenton County Segment Length: 11.0
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Partial Support)
Pollutant(s):	Pathogens; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Agriculture

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 8.2 to 19.0. Based on NHD river miles, the river miles have been more accurately determined as 8.2 to 19.2. Sanitation District 1 (SD1) of Northern Kentucky was awarded a line-item appropriation of \$475,000 to develop and apply a Watershed Assessment Protocol to Banklick Creek. SD1 has signed a Consent Decree with state and federal regulators to apply an innovative adaptive watershed management approach to addressing sewer overflows and water quality in Northern Kentucky. The Banklick Watershed Council (BWC) was awarded \$117,260 in federal 104(b)(3) grant funds to develop a watershed Action Plan; BWC intends to apply for FFY2007 federal Section 319(h) Grant funds to continue their watershed planning process and to begin implementation of remedial measures.

**Salt-Licking Basin Unit  
Licking River Basin  
Streams**

<u>Beaver Creek into Licking River</u>	Menifee County
From River Mile 10.0 to 14.4	Segment Length: 4.4
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Managed Pasture Grazing; Non-Irrigated Crop Production	
<u>Blacks Creek into Hinkston Creek</u>	Bourbon County
From River Mile 0.0 to 3.4	Segment Length: 3.4
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators	
Suspected Sources: Livestock (Grazing or Feeding Operations)	
<u>Blackwater Creek into Licking River</u>	Morgan County
From River Mile 3.8 to 11.7	Segment Length: 7.9
Impaired Use(s): Primary Contact Recreation (Nonsupport)	
Pollutant(s): Pathogens	
Suspected Sources: Source Unknown	
<u>Boone Creek into Hinkston Creek</u>	Bourbon County
From River Mile 0.0 to 5.0	Segment Length: 5.0
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators	
Suspected Sources: Livestock (Grazing or Feeding Operations)	
<u>Broke Leg Creek into Blackwater Creek</u>	Morgan County
From River Mile 0.0 to 1.0	Segment Length: 1.0
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Impairment Unknown	
Suspected Sources: Source Unknown; Habitat Modification - Other Than Hydromodification	
<u>Broke Leg Creek into Blackwater Creek</u>	Morgan County
From River Mile 1.0 to 4.4	Segment Length: 3.4
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related); Upstream Source; Runoff from Forest/Grassland/Parkland	



**Salt-Licking Basin Unit  
Licking River Basin  
Streams**

Brushy Fork into South Fork Grassy Creek Pendleton County  
From River Mile 0.0 to 5.8 Segment Length: 5.8  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Streambank Modifications/Destabilization; Crop Production (Crop Land or Dry Land); Agriculture; Runoff from Forest/Grassland/Parkland

Burning Fork into Licking River Magoffin County  
From River Mile 0.0 to 3.3 Segment Length: 3.25  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Pathogens  
Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related); Loss of Riparian Habitat; Municipal (Urbanized High Density Area); Municipal Point Source Discharges; Source Unknown

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 2.9. Based on new assessments, the river miles have been more accurately determined as 0.0 to 3.3.

Caney Creek into Licking River Morgan County  
From River Mile 0.0 to 4.2 Segment Length: 4.2  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Turbidity  
Suspected Sources: Impacts from Abandoned Mine Lands (Inactive); Loss of Riparian Habitat; Silviculture Harvesting; Streambank Modifications/Destabilization; Subsurface (Hardrock) Mining; Surface Mining

Caskey Fork into Grassy Fork Morgan County  
From River Mile 0.0 to 2.3 Segment Length: 2.3  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Site Clearance (Land Development or Redevelopment); Source Unknown

Christy Creek into Triplett Creek Rowan County  
From River Mile 0.0 to 4.3 Segment Length: 4.3  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Non-Irrigated Crop Production

**Salt-Licking Basin Unit  
Licking River Basin  
Streams**

Clarks Run into North Fork Licking River Mason County  
From River Mile 0.0 to 2.1 Segment Length: 2.1  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Crop Production (Crop Land or Dry Land)

Coffee Creek into Williams Creek Morgan County  
From River Mile 0.0 to 4.1 Segment Length: 4.1  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Channel Erosion/Incision from Upstream Hydromodifications;  
Channelization; Streambank Modifications/Destabilization;  
Agriculture

Cooper Run into Stoner Creek Bourbon County  
From River Mile 0.0 to 10.1 Segment Length: 10.1  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Livestock (Grazing or Feeding Operations)

Craintown Branch into Fleming Creek Fleming County  
From River Mile 0.0 to 3.6 Segment Length: 3.6  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Phosphorus (Total)  
Suspected Sources: Agriculture

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 3.5. Based on NHD, the river miles have been more accurately determined as 0.0 to 3.6. Since 1998, KDOW has awarded over \$1.5 million in federal Section 319(h) Grant funds (FFY1997, 1999, 2000 & 2004) to the Kentucky Division of Conservation and the Fleming County Conservation District to implement watershed restoration activities focusing on agriculture in the Fleming Creek watershed. In 1999, Fleming Creek was selected as one of five Clean Water Action Plan projects for focused and targeted multi-agency nonpoint source pollution control efforts.

Crane Creek into Fox Creek Fleming County  
From River Mile 0.0 to 2.9 Segment Length: 2.9  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat; Sand/Gravel/Rock Mining or Quarries; Streambank Modifications/Destabilization; Crop Production (Crop Land or Dry Land); Agriculture

**Salt-Licking Basin Unit  
Licking River Basin  
Streams**

Crooked Creek into Licking River Nicholas County  
From River Mile 0.0 to 9.1 Segment Length: 9.1  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Doty Branch into Fleming Creek Fleming County  
From River Mile 0.0 to 2.3 Segment Length: 2.3  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Animal Feeding Operations (NPS); Agriculture

See Status of TMDLs Under Development Prior to 2006. Since 1998, KDOW has awarded over \$1.5 million in federal Section 319(h) Grant funds (FFY1997, 1999, 2000 & 2004) to the Kentucky Division of Conservation and the Fleming County Conservation District to implement watershed restoration activities focusing on agriculture in the Fleming Creek watershed. In 1999, Fleming Creek was selected as one of five Clean Water Action Plan projects for focused and targeted multi-agency nonpoint source pollution control efforts.

Doty Branch into Fleming Creek Fleming County  
From River Mile 2.3 to 4.0 Segment Length: 4.0  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Animal Feeding Operations (NPS); Agriculture

Dry Creek into Triplett Creek Rowan County  
From River Mile 0.0 to 0.5 Segment Length: 0.5  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Organic Enrichment (Sewage)  
Biological Indicators  
Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related);  
Urban Runoff/Storm Sewers

Elk Fork into Licking River Morgan County  
From River Mile 0.0 to 4.9 Segment Length: 4.9  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Impacts from Hydrostructure Flow Regulation/Modification;  
Agriculture; Habitat Modification - Other Than  
Hydromodification; Silviculture Activities

See Status of TMDLs Under Development Prior to 2006.

**Salt-Licking Basin Unit  
Licking River Basin  
Streams**

Elk Fork into Licking River Morgan County  
From River Mile 4.9 to 10.5 Segment Length: 5.6  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Turbidity  
Suspected Sources: Impacts from Abandoned Mine Lands (Inactive); Loss of  
Riparian Habitat; Silviculture Harvesting; Streambank  
Modifications/Destabilization; Subsurface (Hardrock) Mining;  
Surface Mining

See Status of TMDLs Under Development Prior to 2006.

Elk Fork into Licking River Morgan County  
From River Mile 12.6 to 14.7 Segment Length: 2.1  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Turbidity  
Suspected Sources: Impacts from Abandoned Mine Lands (Inactive); Loss of  
Riparian Habitat; Silviculture Harvesting; Streambank  
Modifications/Destabilization; Subsurface (Hardrock) Mining;  
Surface Mining

See Status of TMDLs Under Development Prior to 2006.

Fannins Fork into Elk Fork Morgan County  
From River Mile 1.5 to 3.4 Segment Length: 1.9  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Crop Production (Crop Land or Dry Land)

Flat Creek into Licking River Bath County  
From River Mile 0.0 to .9 Segment Length: 0.9  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Flat Run into Stoner Creek Bourbon County  
From River Mile 0.0 to 2.2 Segment Length: 2.2  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
Indicators  
Suspected Sources: Livestock (Grazing or Feeding Operations)

**Salt-Licking Basin Unit  
Licking River Basin  
Streams**

Fleming Creek into Licking River Fleming County  
From River Mile 0.0 to 12.8 Segment Length: 12.8  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators;  
Phosphorus (Total)  
Suspected Sources: Animal Feeding Operations (NPS)

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 39.2. Based on new assessments the segment has been split. Since 1998, KDOW has awarded over \$1.5 million in federal Section 319(h) Grant funds (FFY1997, 1999, 2000 & 2004) to the Kentucky Division of Conservation and the Fleming County Conservation District to implement watershed restoration activities focusing on agriculture in the Fleming Creek watershed. In 1999, Fleming Creek was selected as one of five Clean Water Action Plan projects for focused and targeted multi-agency nonpoint source pollution control efforts.

Fleming Creek into Licking River Fleming County  
From River Mile 12.8 to 16.0 Segment Length: 3.2  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Animal Feeding Operations (NPS); Agriculture

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 39.2. Based on new assessments the segment has been split. Since 1998, KDOW has awarded over \$1.5 million in federal Section 319(h) Grant funds (FFY1997, 1999, 2000 & 2004) to the Kentucky Division of Conservation and the Fleming County Conservation District to implement watershed restoration activities focusing on agriculture in the Fleming Creek watershed. In 1999, Fleming Creek was selected as one of five Clean Water Action Plan projects for focused and targeted multi-agency nonpoint source pollution control efforts.

Fleming Creek into Licking River Fleming County  
From River Mile 20.8 to 39.4 Segment Length: 18.6  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators;  
Organic Enrichment (Sewage) Biological Indicators;  
Phosphorus (Total)  
Suspected Sources: Animal Feeding Operations (NPS); Urban Runoff/Storm Sewers

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 39.2. Based on new assessments the segment has been split and extended from 39.2 to 39.4. Since 1998, KDOW has awarded over \$1.5 million in federal Section 319(h) Grant

**Salt-Licking Basin Unit  
Licking River Basin  
Streams**

funds (FFY1997, 1999, 2000 & 2004) to the Kentucky Division of Conservation and the Fleming County Conservation District to implement watershed restoration activities focusing on agriculture in the Fleming Creek watershed. In 1999, Fleming Creek was selected as one of five Clean Water Action Plan projects for focused and targeted multi-agency nonpoint source pollution control efforts.

Fox Creek into Licking River Fleming County  
From River Mile 0.0 to 10.1 Segment Length: 10.1  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Partial Support), Secondary Contact Recreation (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Pathogens  
Suspected Sources: Grazing in Riparian or Shoreline Zones; Source Unknown; Natural Sources

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 8.8. Based on new assessments the river miles have been more accurately determined as 0.0 to 10.1.

Fox Creek into Licking River Fleming County  
From River Mile 20.1 to 22.7 Segment Length: 2.6  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Dredging (e.g., for Navigation Channels); Silviculture Harvesting; Natural Sources; Silviculture Activities

Grassy Creek into Licking River Morgan County  
From River Mile 4.6 to 10.0 Segment Length: 5.4  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Source Unknown; Crop Production (Crop Land or Dry Land)

Hinkston Creek into South Fork Licking River Bourbon County  
From River Mile 20.8 to 31.0 Segment Length: 10.2  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Livestock (Grazing or Feeding Operations)

Hinkston Creek into South Fork Licking River Bourbon County  
From River Mile 41.8 to 49.1 Segment Length: 7.3  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Pathogens  
Suspected Sources: Agriculture



**Salt-Licking Basin Unit  
Licking River Basin  
Streams**

Lees Creek into North Fork Licking River Mason County  
From River Mile 0.0 to 4.3 Segment Length: 4.3  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Grazing in Riparian or Shoreline Zones; Crop Production (Crop Land or Dry Land)

Left Fork White Oak Creek into Licking River Morgan County  
From River Mile 0.0 to 1.8 Segment Length: 1.8  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Turbidity  
Suspected Sources: Impacts from Abandoned Mine Lands (Inactive); Loss of Riparian Habitat; Silviculture Harvesting; Streambank Modifications/Destabilization; Subsurface (Hardrock) Mining; Surface Mining

Lick Creek into Licking River Magoffin County  
From River Mile 0.0 to 2.1 Segment Length: 2.1  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Grazing in Riparian or Shoreline Zones; Loss of Riparian Habitat; Livestock (Grazing or Feeding Operations); Crop Production (Crop Land or Dry Land); Wet Weather Discharges (Non-Point Source); Impervious Surface/Parking Lot Runoff; Unrestricted Cattle Access; Rural (Residential Areas)

Licking River into Ohio River Campbell County  
From River Mile 0.0 to 4.8 Segment Length: 4.8  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Combined Sewer Overflows; Urban Runoff/Storm Sewers

Licking River into Ohio River Campbell County  
From River Mile 4.8 to 14.9 Segment Length: 10.1  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 4.6 to 14.5. Based on NHD river miles, the river miles have been more accurately determined as 4.8 to 14.9.



**Salt-Licking Basin Unit  
Licking River Basin  
Streams**

Licking River into Ohio River Kenton County  
From River Mile 31.0 to 37.6 Segment Length: 6.6  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Licking River into Ohio River Rowan County  
From River Mile 174.4 to 180.8 Segment Length: 6.4  
Impaired Use(s): Secondary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Licking River into Ohio River Morgan County  
From River Mile 224.3 to 241.3 Segment Length: 17.0  
Impaired Use(s): Primary Contact Recreation (Nonsupport), Secondary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Licking River into Ohio River Magoffin County  
From River Mile 265.0 to 271.6 Segment Length: 6.6  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Turbidity; Nutrient/Eutrophication  
Biological Indicators; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Grazing in Riparian or Shoreline Zones; Loss of Riparian Habitat; Silviculture Harvesting; Silviculture Reforestation; Streambank Modifications/Destabilization; Wet Weather Discharges (Non-Point Source); Silviculture Activities; Urban Runoff/Storm Sewers

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 263.1 to 269.5. Based on NHD river miles, the river miles have been more accurately determined as 265.0 to 271.6.

Licking River into Ohio River Magoffin County  
From River Mile 271.6 to 294.1 Segment Length: 22.5  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Resource Extraction

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 269.5 to 293.3. Based on NHD river miles, the river miles have been more accurately determined as 271.6 to 294.1.

**Salt-Licking Basin Unit  
Licking River Basin  
Streams**

Licking River into Ohio River Magoffin County  
From River Mile 294.1 to 302.4 Segment Length: 8.3  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Surface Mining

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 293.3 to 301.1. Based on NHD river miles, the river miles have been more accurately determined as 294.1 to 302.4.

Little Beaver Creek into Beaver Creek Harrison County  
From River Mile 0.0 to 3.3 Segment Length: 3.3  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Grazing in Riparian or Shoreline Zones; Highway/Road/Bridge Runoff (Non-Construction Related); Crop Production (Crop Land or Dry Land)

Little Stoner Creek into Stoner Creek Clark County  
From River Mile 0.0 to 5.0 Segment Length: 5.0  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

See Status of TMDLs Under Development Prior to 2006.

Locust Creek into Licking River Fleming County  
From River Mile 0.0 to 11.8 Segment Length: 11.8  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Grazing in Riparian or Shoreline Zones; Crop Production (Crop Land or Dry Land)

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 5.7 to 11.7. Based on new assessments, the river miles have been more accurately determined as 0.0 to 11.8.

Logan Run into Fleming Creek Fleming County  
From River Mile 0.0 to 2.3 Segment Length: 2.3  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Agriculture

**Salt-Licking Basin Unit  
Licking River Basin  
Streams**

See Status of TMDLs Under Development Prior to 2006. Since 1998, KDOW has awarded over \$1.5 million in federal Section 319(h) Grant funds (FFY1997, 1999, 2000 & 2004) to the Kentucky Division of Conservation and the Fleming County Conservation District to implement watershed restoration activities focusing on agriculture in the Fleming Creek watershed. In 1999, Fleming Creek was selected as one of five Clean Water Action Plan projects for focused and targeted multi-agency nonpoint source pollution control efforts.

Mash Fork into Horsepen Fork Magoffin County  
From River Mile 0.0 to 3.0 Segment Length: 3.0  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown; Crop Production (Crop Land or Dry Land)

Middle Fork Licking River into Licking River Magoffin County  
From River Mile 0.0 to 2.5 Segment Length: 2.5  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Agriculture

Mill Creek into South Fork Licking Harrison County  
From River Mile 0.0 to 21.6 Segment Length: 21.6  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Site Clearance (Land Development or Redevelopment); Livestock (Grazing or Feeding Operations); Crop Production (Crop Land or Dry Land)

North Fork Licking River into Licking River (Cave Run Lake) Morgan County  
From River Mile 8.4 to 12.0 Segment Length: 3.6  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

North Fork Licking River into Licking River (Cave Run Lake) Morgan County  
From River Mile 12.0 to 13.1 Segment Length: 1.1  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related); Upstream Source; Introduction of Non-native Organisms (Accidental or Intentional)

**Salt-Licking Basin Unit  
Licking River Basin  
Streams**

North Fork Licking River into Licking River Bracken County  
From River Mile 18.5 to 52.5 Segment Length: 34.0  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Pathogens  
Suspected Sources: Agriculture

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 18.1 to 51.7. Based on NHD river miles, the river miles have been more accurately determined as 18.5 to 52.5.

Oldfield Fork into Grassy Creek Morgan County  
From River Mile 0.0 to 3.6 Segment Length: 3.6  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Crop Production (Crop Land or Dry Land)

Phillips Creek into Licking River Campbell County  
From River Mile 0.0 to 5.3 Segment Length: 5.3  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Prickly Ash Creek into Slate Creek Bath County  
From River Mile 0.0 to 3.1 Segment Length: 3.1  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Agriculture

KDOW awarded \$66,000 in federal Section 319(h) Grant funds (FFY1997) to the Gateway District Health Department to implement on-site wastewater treatment alternatives in the Slate Creek Watershed.

Puncheon Camp Creek into Licking River Magoffin County  
From River Mile 0.0 to 1.1 Segment Length: 1.1  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Rock Fork into North Fork Triplett Creek Rowan County  
From River Mile 0.0 to 4.0 Segment Length: 4.0  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Dredging (e.g., for Navigation Channels); Crop Production (Crop Land or Dry Land)

**Salt-Licking Basin Unit  
Licking River Basin  
Streams**

Salt Lick Creek into Licking River Bath County  
From River Mile 3.0 to 8.0 Segment Length: 5.0  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Non-Irrigated Crop Production; Rangeland Grazing

Scrubgrass Creek into Cassidy Creek Nicholas County  
From River Mile 0.0 to 1.6 Segment Length: 1.6  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

Slate Creek into Licking River Bath County  
From River Mile 0.0 to 13.6 Segment Length: 13.6  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 7.0. Based on new assessments, the river miles have been more accurately determined as 0.0 to 13.6. KDOW awarded \$66,000 in federal Section 319(h) Grant funds (FFY1997) to the Gateway District Health Department to educate and implement on-site wastewater treatment alternatives in the Slate Creek Watershed. As part of the FFY1998 Section 319(h) Grant, KDOW awarded an additional \$235,000 for design and installation of a decentralized wastewater treatment facility for the community of Preston; located in the headwaters of the Slate Creek watershed.

Spruce Creek into Slate Creek Montgomery County  
From River Mile 0.0 to 1.7 Segment Length: 1.7  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Grazing in Riparian or Shoreline Zones

Stoner Creek into South Fork Licking River Bourbon County  
From River Mile 0.0 to 5.5 Segment Length: 5.5  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Stoner Creek into South Fork Licking River Bourbon County  
From River Mile 5.5 to 15.0 Segment Length: 9.5  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

**Salt-Licking Basin Unit  
Licking River Basin  
Streams**

Stony Creek into Licking River Nicholas County  
From River Mile 0.0 to 3.0 Segment Length: 3.0  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

Straight Creek into Elk Fork Morgan County  
From River Mile 0.0 to 1.8 Segment Length: 1.8  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Turbidity  
Suspected Sources: Impacts from Abandoned Mine Lands (Inactive); Loss of Riparian Habitat; Silviculture Harvesting; Streambank Modifications/Destabilization; Subsurface (Hardrock) Mining; Surface Mining

See Status of TMDLs Under Development Prior to 2006.

Strodes Creek into Stoner Creek Bourbon County  
From River Mile 2.7 to 19.3 Segment Length: 16.6  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Highways, Roads, Bridges, Infrastructure (New Construction); Municipal Point Source Discharges; Agriculture; Habitat Modification - Other Than Hydromodification; Unspecified Urban Stormwater

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$680,034 in federal Section 319(h) Grant funds (FFY2004) to the City of Winchester to implement BMPs and restore the water quality of Strodes Creek.

Threemile Creek into Licking River Campbell County  
From River Mile 0.1 to 4.7 Segment Length: 4.6  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Sanitary Sewer Overflows (Collection System Failures); Source Unknown

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 4.7. The river miles have been more accurately determined as 0.1 to 4.7 to account for

**Salt-Licking Basin Unit  
Licking River Basin  
Streams**

backwater from the Licking River. Sanitation District 1 of Northern Kentucky has signed a Consent Decree with state and federal regulators to apply an innovative adaptive watershed management approach to addressing sewer overflows and water quality in Northern Kentucky. As part of this Consent Decree, a watershed plan will be developed for this watershed.

<u>Townsend Creek into South Fork Licking River</u>	Bourbon County
From River Mile 0.0 to 4.9	Segment Length: 4.9
Impaired Use(s):	Primary Contact Recreation (Nonsupport)
Pollutant(s):	Pathogens
Suspected Sources:	Source Unknown

See TMDLs Planned for Development During 2006. KDOW awarded \$900,000 in federal Section 319(h) Grant funds (FFY2003) to the Kentucky Chapter of the Nature Conservancy to target agricultural BMPs, conservation easements, and other water quality practices in 303(d) impaired watersheds in the Licking River Basin; the project has a specific goal of meeting water quality standards in Townsend Creek.

<u>Trace Fork into Licking River</u>	Magoffin County
From River Mile 0.0 to 3.1	Segment Length: 3.1
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation; Total Dissolved Solids; Turbidity
Suspected Sources:	Impacts from Abandoned Mine Lands (Inactive); Loss of Riparian Habitat; Silviculture Harvesting; Streambank Modifications/Destabilization; Subsurface (Hardrock) Mining; Surface Mining

<u>Triplett Creek into Licking River</u>	Rowan County
From River Mile 5.9 to 12.3	Segment Length: 6.4
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport), Secondary Contact Recreation (Partial Support)
Pollutant(s):	Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Highways, Roads, Bridges, Infrastructure (New Construction); Impacts from Hydrostructure Flow Regulation/Modification; Municipal Point Source Discharges; Source Unknown; Agriculture; Unspecified Urban Stormwater; Urban Runoff/Storm Sewers

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 5.8 to 12.0. Based on NHD, the river miles have been more accurately determined as 5.9 to 12.3. A diverse stakeholder group has formed to address water quality and quantity issues in this watershed. They have applied for \$40,000 FFY2006 federal 604(b) grant funds to develop a watershed based plan and they intend to apply for

**Salt-Licking Basin Unit**  
**Licking River Basin**  
**Streams**

FFY2007 federal Section 319(h) grant funds to continue development of their watershed based plan and begin implementation of identified remedial strategies.

<u>UT to Mill Creek into Mill Creek and North Fork Licking River</u>	Fleming County
From River Mile 0.0 to 4.0	Segment Length: 4.0
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Total Kjeldahl Nitrogen (TKN); Phosphorus (Total)
Suspected Sources:	Dairies (Outside Milk Parlor Areas); Highway/Road/Bridge Runoff (Non-Construction Related); Loss of Riparian Habitat; Livestock (Grazing or Feeding Operations); Unrestricted Cattle Access; Introduction of Non-native Organisms (Accidental or Intentional)
<u>UT to UT to Lees Creek into Lees Creek</u>	Mason County
From River Mile 0.0 to 1.6	Segment Length: 1.6
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Total Kjeldahl Nitrogen (TKN); Nitrate/Nitrite (Nitrite + Nitrate as N)
Suspected Sources:	Grazing in Riparian or Shoreline Zones; Loss of Riparian Habitat; Livestock (Grazing or Feeding Operations); Unrestricted Cattle Access; Introduction of Non-native Organisms (Accidental or Intentional)
<u>Williams Creek into Elk Fork</u>	Morgan County
From River Mile 0.0 to 5.3	Segment Length: 5.3
Impaired Use(s):	Primary Contact Recreation (Nonsupport)
Pollutant(s):	Pathogens
Suspected Sources:	Source Unknown



**Salt-Licking Basin Unit  
Licking River Basin  
Lakes**

**9.2 Licking River Basin Lakes**

Cave Run Lake

Rowan County

Acres: 8270

Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Partial Support), Secondary Contact Recreation (Partial Support), Fish Consumption (Partial Support)

Pollutant(s): Methylmercury; pH

Suspected Sources: Atmospheric Deposition - Toxics; Source Unknown; Upstream Source

Doe Run Lake

Kenton County

Acres: 51

Impaired Use(s): Aquatic Life (Partial Support)

Pollutant(s): Oxygen, Dissolved; Nutrient/Eutrophication Biological Indicators; Dissolved Gas Supersaturation

Suspected Sources: Source Unknown; Upstream Source

Kincaid Lake

Pendleton County

Acres: 183

Impaired Use(s): Aquatic Life (Partial Support)

Pollutant(s): Oxygen, Dissolved; Nutrient/Eutrophication Biological Indicators; Dissolved Gas Supersaturation

Suspected Sources: Agriculture

**Salt-Licking Basin Unit  
Ohio River Basin  
Streams**

**9.3 Ohio River Basin Streams**

Allen Fork into Woolper Creek Boone County  
From River Mile 2.0 to 4.6 Segment Length: 2.6  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Habitat Modification - Other Than Hydromodification; Unspecified Urban Stormwater

See Status of TMDLs Under Development Prior to 2006.

Big Sugar Creek into Ohio River Gallatin County  
From River Mile 0.7 to 2.0 Segment Length: 1.3  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related); Site Clearance (Land Development or Redevelopment); Crop Production (Crop Land or Dry Land)

Bracken Creek into Ohio River Bracken County  
From River Mile 2.8 to 11.0 Segment Length: 8.2  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Animal Feeding Operations (NPS); Grazing in Riparian or Shoreline Zones; Crop Production (Crop Land or Dry Land)

Briery Branch into Ohio River Lewis County  
From River Mile 0.2 to 2.2 Segment Length: 2.2  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Grazing in Riparian or Shoreline Zones; Crop Production (Crop Land or Dry Land); Rural (Residential Areas)

Brush Creek into Twelvemile Creek Campbell County  
From River Mile 0.0 to 1.6 Segment Length: 1.6  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Municipal Point Sources

**Salt-Licking Basin Unit  
Ohio River Basin  
Streams**

Cabin Creek into Ohio River Mason County  
From River Mile 3.6 to 11.3 Segment Length: 7.7  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Agriculture; Habitat Modification - Other Than Hydromodification

Clary Branch into Salt Lick Creek Lewis County  
From River Mile 0.0 to 1.9 Segment Length: 1.9  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Dredging (e.g., for Navigation Channels); Highway/Road/Bridge Runoff (Non-Construction Related); Runoff from Forest/Grassland/Parkland

Dry Creek into Ohio River Boone County  
From River Mile 0.2 to 7.0 Segment Length: 6.8  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Municipal Point Source Discharges; Agriculture; Unspecified Urban Stormwater

Dry Creek into Ohio River Gallatin County  
From River Mile 1.1 to 3.0 Segment Length: 1.9  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related); Livestock (Grazing or Feeding Operations); Crop Production (Crop Land or Dry Land)

Fourmile Creek into Ohio River Campbell County  
From River Mile 0.2 to 8.5 Segment Length: 8.3  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Municipal Point Source Discharges; Sanitary Sewer Overflows (Collection System Failures)

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 8.3. Based on NHD, the river miles have been more accurately determined as 0.2 to 8.5. Sanitation District 1 of Northern Kentucky has signed a Consent Decree with state and federal regulators to apply an innovative adaptive watershed management approach to addressing sewer overflows and water quality in Northern Kentucky. As part of this Consent Decree, a watershed plan will be developed for this watershed.

**Salt-Licking Basin Unit  
Ohio River Basin  
Streams**

Goose Creek into Locust Creek Bracken County  
From River Mile 0.0 to 1.9 Segment Length: 1.9  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Surface Mining; Natural Sources

Gunpowder Creek into Ohio River Boone County  
From River Mile 0.0 to 15.4 Segment Length: 15.4  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Site Clearance (Land Development or Redevelopment)

Gunpowder Creek into Ohio River Boone County  
From River Mile 15.4 to 17.1 Segment Length: 1.7  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Airports; Highway/Road/Bridge Runoff (Non-Construction Related); Loss of Riparian Habitat; Site Clearance (Land Development or Redevelopment); Streambank Modifications/Destabilization; Agriculture; Unspecified Urban Stormwater

See TMDLs Planned for Development During 2007. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 15.0 to 16.6. Based on new assessments, the river miles have been more accurately determined as 15.4 to 17.1.

Gunpowder Creek into Ohio River Boone County  
From River Mile 18.9 to 21.6 Segment Length: 2.7  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Unspecified Urban Stormwater

See TMDLs Planned for Development During 2007.

Laurel Fork into Kinniconick Creek Lewis County  
From River Mile 5.8 to 15.9 Segment Length: 10.1  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Turbidity; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Dredging (e.g., for Navigation Channels); Livestock (Grazing or Feeding Operations); Crop Production (Crop Land or Dry Land); Silviculture Activities; Sewage Discharges in Unsewered Areas

**Salt-Licking Basin Unit  
Ohio River Basin  
Streams**

Locust Creek into Ohio River Bracken County  
From River Mile 0.0 to 4.1 Segment Length: 4.1  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2006.

Locust Creek into Ohio River Bracken County  
From River Mile 4.1 to 12.2 Segment Length: 8.1  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

Montgomery Creek into Kinniconick Creek Lewis County  
From River Mile 0.0 to 6.5 Segment Length: 6.5  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Dredging (e.g., for Navigation Channels); Grazing in Riparian or Shoreline Zones; Site Clearance (Land Development or Redevelopment); Crop Production (Crop Land or Dry Land); Sewage Discharges in Unsewered Areas

Salt Lick Creek into Ohio River Lewis County  
From River Mile 0.2 to 7.2 Segment Length: 7.0  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related); Loss of Riparian Habitat; Impervious Surface/Parking Lot Runoff; Introduction of Non-native Organisms (Accidental or Intentional); Runoff from Forest/Grassland/Parkland

Snag Creek into Ohio River Bracken County  
From River Mile 0.5 to 5.5 Segment Length: 5.0  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2006.

**Salt-Licking Basin Unit  
Ohio River Basin  
Streams**

South Fork Gunpowder Creek into Ohio River Boone County  
From River Mile 0.0 to 2.0 Segment Length: 2.0  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Turbidity; Nutrient/Eutrophication  
Biological Indicators; Organic Enrichment (Sewage) Biological  
Indicators  
Suspected Sources: Package Plant or Other Permitted Small Flows Discharges;  
Post-Development Erosion and Sedimentation; Site Clearance  
(Land Development or Redevelopment); Agriculture

See TMDLs Planned for Development During 2007. A volunteer citizens group was formed in 2006 to monitor, plan, and implement remedial measures in this watershed. Sample training via the Licking River Watershed Watch is scheduled and pre-BMP monitoring will begin in 2006. They plan to apply for FFY2008 federal Section 319(h) Grant funding.

South Fork Gunpowder Creek into Ohio River Boone County  
From River Mile 4.1 to 6.8 Segment Length: 2.7  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2007. A volunteer citizens group was formed in 2006 to monitor, plan, and implement remedial measures in this watershed. Sample training via the Licking River Watershed Watch is scheduled and pre-BMP monitoring will begin in 2006. They plan to apply for FFY2008 federal Section 319(h) Grant funding.

Tenmile Creek into Ohio River Campbell County  
From River Mile 0.1 to 1.2 Segment Length: 1.1  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
Indicators  
Suspected Sources: Site Clearance (Land Development or Redevelopment);  
Livestock (Grazing or Feeding Operations); Crop Production  
(Crop Land or Dry Land)

Trace Creek into Kinniconick Creek Lewis County  
From River Mile 0.2 to 4.6 Segment Length: 4.2  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
Indicators; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Dredging (e.g., for Navigation Channels); Grazing in Riparian  
or Shoreline Zones; Illegal Dumps or Other Inappropriate  
Waste Disposal; Crop Production (Crop Land or Dry Land);  
Silviculture Activities; Sewage Discharges in Unsewered Areas

**Salt-Licking Basin Unit  
Ohio River Basin  
Streams**

<u>Woolper Creek into Ohio River</u>	Boone County
From River Mile 2.8 to 7.2	Segment Length: 4.4
Impaired Use(s):	Primary Contact Recreation (Nonsupport)
Pollutant(s):	Pathogens
Suspected Sources:	Agriculture

<u>Woolper Creek into Ohio River</u>	Boone County
From River Mile 11.9 to 14.0	Segment Length: 2.1
Impaired Use(s):	Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Pathogens; Total Suspended Solids (TSS); Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Illegal Dumps or Other Inappropriate Waste Disposal; Impacts from Hydrostructure Flow Regulation/Modification; Urban Runoff/Storm Sewers

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 11.5 to 13.6. Based on NHD, the river miles have been more accurately determined as 11.9 to 14.0. Northern Kentucky University Center for Applied Ecology will begin a \$1.2 million stream restoration project on Woolper Creek in 2006 to address past channelization and filling of wetlands and floodplain.

**Salt-Licking Basin Unit**  
**Salt River Basin**  
**Streams**

**9.5 Salt River Basin Streams**

Beargrass Creek into Ohio River Jefferson County  
From River Mile 0.5 to 1.8 Segment Length: 1.3  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Cadmium; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Combined Sewer Overflows; Landfills; Municipal Point Source Discharges; Sanitary Sewer Overflows (Collection System Failures); Unspecified Urban Stormwater

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 1.5. Based on NHD, the river miles have been more accurately determined as 0.5 to 1.8. The Beargrass Creek Watershed Council is active in the watershed and has recently coordinated several Clean Sweep events, as well as the Beargrass Creek Watershed Roundtable Conference. MSD has entered into a consent decree to address unauthorized discharges from SSO, CSO and WWTPs and to address discharges from the CSO locations identified in their KPDES permit.

Beech Creek into Taylorsville Lake (Salt River) Shelby County  
From River Mile 4.6 to 19.6 Segment Length: 15.0  
Impaired Use(s): Primary Contact Recreation (Nonsupport), Secondary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Beech Fork into Rolling Fork Nelson County  
From River Mile 39.5 to 50.4 Segment Length: 10.9  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Agriculture

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 39.5 to 49.7. Based on new assessments, the river miles have been more accurately determined as 39.5 to 50.4.

Big South Fork into Rolling Fork Marion County  
From River Mile 0.0 to 12.4 Segment Length: 12.4  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Grazing in Riparian or Shoreline Zones



**Salt-Licking Basin Unit  
Salt River Basin  
Streams**

Blue Spring Ditch into Northern Ditch Jefferson County  
From River Mile 0.0 to 2.1 Segment Length: 2.1  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Illegal Dumps or Other Inappropriate Waste Disposal;  
Municipal Point Source Discharges; Urban Runoff/Storm

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 2.7. Based on NHD, the river miles have been more accurately determined as 0.0 to 2.1.

Brashears Creek into Salt River Spencer County  
From River Mile 0.0 to 13.0 Segment Length: 13.0  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Brooks Run into Floyds Fork Bullitt County  
From River Mile 0.0 to 2.5 Segment Length: 2.5  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Municipal Point Source Discharges

See Status of TMDLs Under Development Prior to 2006.

Brooks Run into Floyds Fork Bullitt County  
From River Mile 2.5 to 4.1 Segment Length: 1.6  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Municipal Point Source Discharges

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$304,400 in federal Section 319(h) Grant funds (FFY2003) to the Kentucky Waterways Alliance to develop and initiate implementation of a Watershed Based Plan in the Floyds Fork watershed and \$244,000 (FFY2003) to the Bullitt County Fiscal Court to implement urban stormwater management runoff controls.

**Salt-Licking Basin Unit  
Salt River Basin  
Streams**

Brooks Run into Floyds Fork

From River Mile 4.1 to 6.1

Bullitt County

Segment Length: 2.0

Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)

Pollutant(s): Pathogens; Organic Enrichment (Sewage) Biological Indicators

Suspected Sources: Municipal Point Source Discharges

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 6.1. Based on new assessments, the segment has been split with the river miles more accurately determined as 0.0 to 2.5, 2.5 to 4.1 and 4.1 to 6.1. KDOW awarded \$304,400 in federal Section 319(h) Grant funds (FFY2003) to the Kentucky Waterways Alliance to develop and initiate implementation of a Watershed Based Plan in the Floyds Fork watershed and \$244,000 (FFY2003) to the Bullitt County Fiscal Court to implement urban stormwater management runoff controls.

Bullitt Lick Creek into Salt River

From River Mile 0.0 to 2.3

Bullitt County

Segment Length: 2.3

Impaired Use(s): Aquatic Life (Partial Support)

Pollutant(s): Sedimentation/Siltation; Turbidity

Suspected Sources: Loss of Riparian Habitat; Post-Development Erosion and Sedimentation; Site Clearance (Land Development or Redevelopment)

KDOW awarded \$304,400 in federal Section 319(h) Grant funds (FFY2003) to the Kentucky Waterways Alliance to develop and initiate implementation of a Watershed Based Plan in the Floyds Fork watershed and \$244,000 (FFY2003) to the Bullitt County Fiscal Court to implement urban stormwater management runoff controls.

Cartwright Creek into Beech Fork

From River Mile 0.0 to 6.6

Washington County

Segment Length: 6.6

Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation

Pollutant(s): Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication Biological Indicators

Suspected Sources: Loss of Riparian Habitat; Agriculture

Cartwright Creek into Beech Fork

From River Mile 6.6 to 12.6

Washington County

Segment Length: 6.0

Impaired Use(s): Aquatic Life (Partial Support)

Pollutant(s): Impairment Unknown

Suspected Sources: Source Unknown

**Salt-Licking Basin Unit  
Salt River Basin  
Streams**

Chaplin River into Beech Fork Nelson County  
From River Mile 0.0 to 23.1 Segment Length: 23.1  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Chaplin River into Beech Fork Mercer County  
From River Mile 63.0 to 69.7 Segment Length: 6.7  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

Cheese Lick into Sulphur Creek Anderson County  
From River Mile 0.7 to 4.4 Segment Length: 3.7  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Grazing in Riparian or Shoreline Zones; Loss of Riparian Habitat; Streambank Modifications/Destabilization

Chenoweth Run into Floyds Fork Jefferson County  
From River Mile 0.0 to 5.2 Segment Length: 5.2  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Landfills; Municipal (Urbanized High Density Area); Municipal Point Source Discharges; Package Plant or Other Permitted Small Flows Discharges; Livestock (Grazing or Feeding Operations); Unspecified Urban Stormwater

KDOW awarded \$304,400 in federal Section 319(h) Grant funds (FFY2003) to the Kentucky Waterways Alliance to develop and initiate implementation of a Watershed Based Plan in the Floyds Fork watershed.

Chenoweth Run into Floyds Fork Jefferson County  
From River Mile 5.2 to 9.2 Segment Length: 3.9  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Landfills; Municipal (Urbanized High Density Area); Municipal Point Source Discharges; Package Plant or Other Permitted Small Flows Discharges; Livestock (Grazing or Feeding Operations); Unspecified Urban Stormwater

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 5.3 to 9.1. Based on NHD, the river miles have been more accurately determined as 5.2 to 9.2. KDOW awarded \$304,400 in federal Section 319(h) Grant funds (FFY2003) to the Kentucky Waterways Alliance to develop and initiate implementation of a Watershed Based Plan in the Floyds Fork watershed.

**Salt-Licking Basin Unit  
Salt River Basin  
Streams**

Clear Creek into Bullskin Creek Shelby County  
From River Mile 0.0 to 11.0 Segment Length: 11.0  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Organic Enrichment (Sewage)  
Biological Indicators; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Livestock (Grazing or Feeding Operations); Crop Production  
(Crop Land or Dry Land); Unspecified Urban Stormwater

Clear Creek into Rolling Fork Hardin County  
From River Mile 0.0 to 4.4 Segment Length: 4.4  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

Cox Creek into Salt River Bullitt County  
From River Mile 0.0 to 4.7 Segment Length: 4.7  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Cox Creek into Salt River Nelson County  
From River Mile 11.2 to 15.5 Segment Length: 4.3  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Permitted Runoff from Confined Animal Feeding Operations  
(CAFOs)

Crooked Creek into Rolling Fork Bullitt County  
From River Mile 5.6 to 12.8 Segment Length: 7.2  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

Currys Fork into Floyds Fork Oldham County  
From River Mile 0.0 to 4.8 Segment Length: 4.8  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
(Nonsupport)  
Pollutant(s): Sedimentation/siltation; Pathogens  
Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related);  
Municipal (Urbanized High Density Area); Package Plant or  
Other Permitted Small Flows Discharges

The Oldham County Fiscal Court will be awarded \$970,500 in federal Section 319(h) Grant funds (FFY2006) to develop and implement a Watershed Based Plan for the Curry's Fork watershed.

**Salt-Licking Basin Unit  
Salt River Basin  
Streams**

Doe Run into Ohio River Meade County  
From River Mile 4.1 to 7.9 Segment Length: 3.8  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

East Fork into Beech Fork Washington County  
From River Mile 0.0 to 1.9 Segment Length: 1.9  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 1.8. Based on new assessments, the river miles have been more accurately determined as 0.0 to 1.9.

Fern Creek into Northern Ditch Jefferson County  
From River Mile 0.0 to 1.3 Segment Length: 1.3  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)  
Pollutant(s): Ammonia (Un-ionized); Pathogens; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Landfills; Municipal Point Source Discharges; Unspecified Urban Stormwater

See Status of TMDLs Under Development Prior to 2006. In the 2004 listing, Fern Creek was synonymous with Northern Ditch (i.e., Fern Creek/Northern Ditch). However, on the United States Geological Survey 7.5' topographic map of the Louisville East quadrangle, Fern Creek discharges into Northern Ditch at the State Route 2052 bridge. Therefore, the listings have been separated, and Northern Ditch ends at RM 7.5.

Fern Creek into Northern Ditch Jefferson County  
From River Mile 1.3 to 4.4 Segment Length: 3.1  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Illegal Dumps or Other Inappropriate Waste Disposal; Landfills; Municipal Point Source Discharges; Unspecified Urban Stormwater; Urban Runoff/Storm Sewers

See Status of TMDLs Under Development Prior to 2006. In the 2004 listing, Fern Creek was synonymous with Northern Ditch (i.e., Fern Creek/Northern Ditch). However, on the United States Geological Survey 7.5' topographic map of the Louisville East quadrangle, Fern Creek discharges into Northern Ditch at the State Route 2052 bridge. Therefore, the listings have been separated, and Northern Ditch ends at RM 7.5.

**Salt-Licking Basin Unit  
Salt River Basin  
Streams**

<u>Fern Creek into Northern Ditch</u>	Jefferson County
From River Mile 4.4 to 5.9	Segment Length: 1.5
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Pathogens; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Illegal Dumps or Other Inappropriate Waste Disposal; Municipal Point Source Discharges; Urban Runoff/Storm

See Status of TMDLs Under Development Prior to 2006. In the 2004 listing, Fern Creek was synonymous with Northern Ditch (i.e., Fern Creek/Northern Ditch). However, on the United States Geological Survey 7.5' topographic map of the Louisville East quadrangle, Fern Creek discharges into Northern Ditch at the State Route 2052 bridge. Therefore, the listings have been separated, and Northern Ditch ends at RM 7.5.

<u>Floyds Fork into Salt River</u>	Jefferson County
From River Mile 0.0 to 11.6	Segment Length: 11.6
Impaired Use(s):	Primary Contact Recreation (Nonsupport)
Pollutant(s):	Pathogens
Suspected Sources:	Source Unknown

KDOW awarded \$304,400 in federal Section 319(h) Grant funds (FFY2003) to the Kentucky Waterways Alliance to develop and initiate implementation of a Watershed Based Plan in the Floyds Fork watershed.

<u>Floyds Fork into Salt River</u>	Jefferson County
From River Mile 11.6 to 24.2	Segment Length: 12.6
Impaired Use(s):	Primary Contact Recreation (Nonsupport)
Pollutant(s):	Pathogens
Suspected Sources:	Municipal Point Source Discharges; Package Plant or Other Permitted Small Flows Discharges; Agriculture; Urban Runoff/Storm Sewers

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 11.6 to 21.6 and 21.6 to 24.2. Based on new assessments, the river miles have been more accurately determined as 11.6 to 24.2. KDOW awarded \$304,400 in federal Section 319(h) Grant funds (FFY2003) to the Kentucky Waterways Alliance to develop and initiate implementation of a Watershed Based Plan in the Floyds Fork watershed.

<u>Floyds Fork into Salt River</u>	Jefferson County
From River Mile 24.2 to 34.1	Segment Length: 9.9
Impaired Use(s):	Aquatic Life (Non Support), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Sedimentation/siltation, Pathogens
Suspected Sources:	Municipal Point Source Discharges; Package Plant or Other Permitted Small Flows Discharges; Agriculture; Urban

**Salt-Licking Basin Unit**  
**Salt River Basin**  
**Streams**

Runoff/Storm Sewers; Site Clearance (Land Development or Redevelopment)

KDOW awarded \$304,400 in federal Section 319(h) Grant funds (FFY2003) to the Kentucky Waterways Alliance to develop and initiate implementation of a Watershed Based Plan in the Floyds Fork watershed.

<u>Floyds Fork into Salt River</u>	Shelby County
From River Mile 34.1 to 61.9	Segment Length: 27.8
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation
Suspected Sources:	Municipal (Urbanized High Density Area); Municipal Point Source Discharges; Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO); Non-Point Source; Wet Weather Discharges (Non-Point Source); Introduction of Non-native Organisms (Accidental or Intentional)

KDOW awarded \$304,400 in federal Section 319(h) Grant funds (FFY2003) to the Kentucky Waterways Alliance to develop and initiate implementation of a Watershed Based Plan in the Floyds Fork watershed.

<u>Glens Creek into Chaplin River</u>	Washington County
From River Mile 0.0 to 4.8	Segment Length: 22.1
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation
Suspected Sources:	Streambank Modifications/Destabilization

<u>Goose Creek into Ohio River</u>	Jefferson County
From River Mile 0.3 to 3.6	Segment Length: 3.3
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Cadmium; Pathogens; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Illegal Dumps or Other Inappropriate Waste Disposal; Industrial Point Source Discharge; Municipal Point Source Discharges; Urban Runoff/Storm Sewers

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 3.2. Based on NHD and backwater from the Ohio River, the river miles have been more accurately determined as 0.3 to 3.6.

<u>Goose Creek into Ohio River</u>	Jefferson County
From River Mile 3.6 to 13.0	Segment Length: 9.4
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)

**Salt-Licking Basin Unit**  
**Salt River Basin**  
**Streams**

Pollutant(s): Cadmium; Pathogens; Organic Enrichment (Sewage)  
Biological Indicators

Suspected Sources: Source Unknown

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 3.2 to 11.7. Based on NHD, the river miles have been more accurately determined as 3.6 to 13.0.

Guist Creek into Brashears creek

Shelby County

From River Mile 15.4 to 27.6

Segment Length: 12.2

Impaired Use(s): Aquatic Life (Partial Support)

Pollutant(s): Sedimentation/Siltation; Organic Enrichment (Sewage)  
Biological Indicators

Suspected Sources: Upstream Impoundments (e.g., PI-5Irrigated Crop Production  
NRCS Structures); Livestock (Grazing or Feeding Operations);  
Crop Production (Crop Land or Dry Land); Unspecified Urban  
Stormwater

Hardins Creek into Beech Fork

Marion County

From River Mile 13.3 to 22.9

Segment Length: 9.6

Impaired Use(s): Aquatic Life (Partial Support)

Pollutant(s): Nitrate/Nitrite (Nitrite + Nitrate as N); Phosphorus (Total)

Suspected Sources: Grazing in Riparian or Shoreline Zones; Loss of Riparian  
Habitat; Unrestricted Cattle Access; Introduction of Non-native  
Organisms (Accidental or Intentional)

Hardins Creek into Sinking Creek

Breckinridge County

From River Mile 0.0 to 5.0

Segment Length: 5.0

Impaired Use(s): Aquatic Life (Nonsupport)

Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
Indicators

Suspected Sources: Managed Pasture Grazing; Non-Irrigated Crop Production

See Status of TMDLs Under Development Prior to 2006. The Sinking Creek Watershed Council has conducted several water quality related field days and is applying for funding to implement additional watershed improvement initiatives.

Hardins Creek into Sinking Creek

Breckinridge County

From River Mile 5.2 to 11.4

Segment Length: 6.2

Impaired Use(s): Aquatic Life (Partial Support)

Pollutant(s): Organic Enrichment (Sewage) Biological Indicators

Suspected Sources: Municipal Point Source Discharges

See Status of TMDLs Under Development Prior to 2006. The Sinking Creek Watershed Council has conducted several water quality related field days and is applying for funding to implement additional watershed improvement initiatives.



**Salt-Licking Basin Unit  
Salt River Basin  
Streams**

Hardy Creek into Little Kentucky River Trimble County  
From River Mile 0.0 to 1.4 Segment Length: 1.4  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators; Organic  
Enrichment (Sewage) Biological Indicators  
Suspected Sources: Grazing in Riparian or Shoreline Zones; Highway/Road/Bridge  
Runoff (Non-Construction Related); Loss of Riparian Habitat;  
Streambank Modifications/Destabilization; Crop Production  
(Crop Land or Dry Land); Urban Runoff/Storm Sewers

Hardy Creek into Little Kentucky River Trimble County  
From River Mile 1.6 to 5.6 Segment Length: 4.0  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Dredging (e.g., for Navigation Channels); Source Unknown

Harrods Creek into Ohio River Oldham County  
From River Mile 0.0 to 3.2 Segment Length: 3.2  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Package Plant or Other Permitted Small Flows Discharges

Harrods Creek into Ohio River Oldham County  
From River Mile 3.2 to 33.3 Segment Length: 29.8  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related);  
Municipal (Urbanized High Density Area); Package Plant or  
Other Permitted Small Flows Discharges

Hayden Creek into Chaplin River Mercer County  
From River Mile 0.0 to 1.3 Segment Length: 1.3  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Other  
Suspected Sources: Source Unknown

Hite Creek into South Fork Harrods Creek Jefferson County  
From River Mile 0.0 to 5.5 Segment Length: 5.5  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Municipal Point Source Discharges

**Salt-Licking Basin Unit  
Salt River Basin  
Streams**

Jeptha Creek into Guist Creek Shelby County  
From River Mile 0.0 to 0.7 Segment Length: 0.7  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Livestock (Grazing or Feeding Operations); Crop Production (Crop Land or Dry Land)

Jones Creek into North Rolling Fork Marion County  
From River Mile 0.0 to 3.9 Segment Length: 3.9  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

Lick Run Creek into Ohio River Breckinridge County  
From River Mile 0.0 to 3.5 Segment Length: 3.5  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Managed Pasture Grazing; Non-Irrigated Crop Production; Crop Production (Crop Land or Dry Land)

Little Goose Creek into Goose Creek Jefferson County  
From River Mile 0.0 to 9.2 Segment Length: 9.2  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Urban Runoff/Storm Sewers

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 8.7. Based on new assessments, the river miles have been more accurately determined as 0.0 to 9.2.

Little Kentucky River into Ohio River Henry County  
From River Mile 21.0 to 27.0 Segment Length: 6.0  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Livestock (Grazing or Feeding Operations); Crop Production (Crop Land or Dry Land)

The Little Kentucky Watershed Conservancy District has funded a watershed coordinator to assist with water quality coordination (monitoring, education/outreach, watershed plan development, funding, etc.).

**Salt-Licking Basin Unit  
Salt River Basin  
Streams**

Long Lick Creek into Salt River Bullitt County  
From River Mile 0.0 to 10.5 Segment Length: 10.5  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Grazing in Riparian or Shoreline Zones; Loss of Riparian Habitat; Streambank Modifications/Destabilization; Livestock (Grazing or Feeding Operations); Unrestricted Cattle Access; Introduction of Non-native Organisms (Accidental or Intentional)

Long Run into Floyds Fork Jefferson County  
From River Mile 0.0 to 10.0 Segment Length: 10.0  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Landfills; Municipal Point Source Discharges; Livestock (Grazing or Feeding Operations); Unspecified Urban Stormwater

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 9.5. Based on new assessments, the river miles have been more accurately determined as 0.0 to 10.0. KDOW awarded \$304,400 in federal Section 319(h) Grant funds (FFY2003) to the Kentucky Waterways Alliance to develop and initiate implementation of a Watershed Based Plan in the Floyds Fork watershed.

Mellins Branch into Little Kentucky River Carroll County  
From River Mile 0.0 to 1.5 Segment Length: 1.5  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Grazing in Riparian or Shoreline Zones; Site Clearance (Land Development or Redevelopment); Crop Production (Crop Land or Dry Land)

Middle Fork Beargrass Creek into Beargrass Creek Jefferson County  
From River Mile 0.0 to 2.0 Segment Length: 2.0  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)  
Pollutant(s): Cadmium; Pathogens; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Channelization; Sanitary Sewer Overflows (Collection System Failures); Urban Runoff/Storm Sewers

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 2.3. Based on new assessments, the river miles have been more accurately determined as 0.0 to 2.0.

**Salt-Licking Basin Unit**  
**Salt River Basin**  
**Streams**

<u>Middle Fork Beargrass Creek into Beargrass Creek</u>	Jefferson County
From River Mile 2.0 to 2.9	Segment Length: 0.9
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Cadmium; Pathogens
Suspected Sources:	Combined Sewer Overflows; Landfills; Municipal Point Source Discharges; Unspecified Urban Stormwater

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 2.3 to 15.2. Based on new assessments, the segment has been split and the river miles have been more accurately determined as 2.0 to 2.9.

<u>Middle Fork Beargrass Creek into Beargrass Creek</u>	Jefferson County
From River Mile 2.9 to 5.8	Segment Length: 2.9
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Cadmium; Pathogens
Suspected Sources:	Illegal Dumps or Other Inappropriate Waste Disposal; Sanitary Sewer Overflows (Collection System Failures); Urban Runoff/Storm Sewers

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 2.3 to 15.2. Based on new assessments, the segment has been split and the river miles have been more accurately determined as 2.9 to 5.8.

<u>Middle Fork Beargrass Creek into Beargrass Creek</u>	Jefferson County
From River Mile 5.8 to 15.3	Segment Length: 9.5
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Cadmium; Pathogens
Suspected Sources:	Illegal Dumps or Other Inappropriate Waste Disposal; Sanitary Sewer Overflows (Collection System Failures); Urban Runoff/Storm Sewers

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 2.3 to 15.2. Based on new assessments, the segment has been split and the river miles have been more accurately determined as 5.8 to 15.3.

**Salt-Licking Basin Unit  
Salt River Basin  
Streams**

<u>Mill Creek into Ohio River</u>	Jefferson County
From River Mile 0.0 to 11.2	Segment Length: 11.2
Impaired Use(s):	Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Pathogens; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Illegal Dumps or Other Inappropriate Waste Disposal; Industrial Point Source Discharge; Municipal Point Source Discharges; Urban Runoff/Storm Sewers

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 9.7. Based on NHD, the river miles have been more accurately determined as 0.0 to 11.2.

<u>Mill Creek Cutoff into Ohio River</u>	Jefferson County
From River Mile 0.0 to 6.7	Segment Length: 6.7
Impaired Use(s):	Primary Contact Recreation (Nonsupport)
Pollutant(s):	Pathogens
Suspected Sources:	Illegal Dumps or Other Inappropriate Waste Disposal; Municipal Point Source Discharges; Urban Runoff/Storm Sewers

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 6.5. Based on NHD, the river miles have been more accurately determined as 0.0 to 6.7.

<u>Muddy Fork Beargrass Creek into Beargrass Creek</u>	Jefferson County
From River Mile 0.0 to 6.9	Segment Length: 6.9
Impaired Use(s):	Primary Contact Recreation (Nonsupport)
Pollutant(s):	Pathogens
Suspected Sources:	Landfills; Municipal Point Source Discharges; Unspecified Urban Stormwater

See Status of TMDLs Under Development Prior to 2006.

<u>Northern Ditch into Southern Ditch</u>	Jefferson County
From River Mile 0.0 to 7.3	Segment Length: 7.3
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Ammonia (Un-ionized); Pathogens; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Illegal Dumps or Other Inappropriate Waste Disposal; Municipal Point Source Discharges; Urban Runoff/Storm Sewers

**Salt-Licking Basin Unit  
Salt River Basin  
Streams**

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 7.5. Based on new assessments, the river miles have been more accurately determined as 0.0 to 7.3. In the 2004 listing, Fern Creek was synonymous with Northern Ditch (i.e., Fern Creek/Northern Ditch). However, on the United States Geological Survey 7.5' topographic map of the Louisville East quadrangle, Fern Creek discharges into Northern Ditch at the State Route 2052 bridge. Therefore, the listings have been separated, and Northern Ditch ends at RM 7.5.

<u>Otter Creek into Ohio River</u>	Meade County
From River Mile 0.0 to 10.7	Segment Length: 10.7
Impaired Use(s):	Primary Contact Recreation (Partial Support)
Pollutant(s):	Pathogens
Suspected Sources:	Landfills; Municipal Point Source Discharges; Livestock (Grazing or Feeding Operations); Unspecified Urban Stormwater

<u>Otter Creek into Rolling Fork</u>	Larue County
From River Mile 0.0 to 2.9	Segment Length: 2.7
Impaired Use(s):	Primary Contact Recreation (Partial Support)
Pollutant(s):	Pathogens
Suspected Sources:	Source Unknown

<u>Pennsylvania Run into Floyds Fork</u>	Jefferson County
From River Mile 0.0 to 3.3	Segment Length: 3.3
Impaired Use(s):	Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Pathogens
Suspected Sources:	Dredging (e.g., for Navigation Channels); Illegal Dumps or Other Inappropriate Waste Disposal; Loss of Riparian Habitat; Municipal Point Source Discharges; Streambank Modifications/Destabilization; Upstream Impoundments (e.g., PI-5Irrigated Crop Production NRCS Structures); Urban Runoff/Storm Sewers; Runoff from Forest/Grassland/Parkland

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 3.1. Based on new assessments, the river miles have been more accurately determined as 0.0 to 3.3. KDOW awarded \$304,400 in federal Section 319(h) Grant funds (FFY2003) to the Kentucky Waterways Alliance to develop and initiate implementation of a Watershed Based Plan in the Floyds Fork watershed and \$244,000 (FFY2003) to the Bullitt County Fiscal Court to implement urban stormwater management runoff controls.

**Salt-Licking Basin Unit  
Salt River Basin  
Streams**

<u>Pleasant Run into Beech Fork</u>	Washington County
From River Mile 4.2 to 6.9	Segment Length: 2.7
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators
Suspected Sources:	Grazing in Riparian or Shoreline Zones; Impacts from Hydrostructure Flow Regulation/Modification; Loss of Riparian Habitat; Streambank Modifications/Destabilization; Unrestricted Cattle Access
<u>Plum Creek into Salt River</u>	Spencer County
From River Mile 0.0 to 17.8	Segment Length: 17.8
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators
Suspected Sources:	Site Clearance (Land Development or Redevelopment); Livestock (Grazing or Feeding Operations); Crop Production (Crop Land or Dry Land); Agriculture
<u>Pond Creek into Ohio River</u>	Oldham County
From River Mile 0.0 to 1.5	Segment Length: 1.5
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Chlorine; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Municipal Point Source Discharges
<u>Pond Creek/Southern Ditch into Pond Creek</u>	Jefferson County
From River Mile 5.1 to 8.1	Segment Length: 3.0
Impaired Use(s):	Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Ammonia (Un-ionized); Pathogens; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Package Plant or Other Permitted Small Flows Discharges; Unspecified Urban Stormwater
<u>Pond Creek/Southern Ditch into Pond Creek</u>	Jefferson County
From River Mile 14.7 to 16.1	Segment Length: 1.4
Impaired Use(s):	Primary Contact Recreation (Nonsupport)
Pollutant(s):	Pathogens
Suspected Sources:	Unspecified Urban Stormwater

**Salt-Licking Basin Unit  
Salt River Basin  
Streams**

Pope Lick Creek into Floyds Fork Jefferson County  
From River Mile 2.0 to 5.2 Segment Length: 3.2  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Landfills; Municipal Point Source Discharges; Unspecified Urban Stormwater

KDOW awarded \$304,400 in federal Section 319(h) Grant funds (FFY2003) to the Kentucky Waterways Alliance to develop and initiate implementation of a Watershed Based Plan in the Floyds Fork watershed.

Road Run into Cartwright Creek Washington County  
From River Mile 0.0 to 7.1 Segment Length: 7.1  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Phosphorus (Total)  
Suspected Sources: Impacts from Hydrostructure Flow Regulation/Modification; Loss of Riparian Habitat; Municipal (Urbanized High Density Area); Municipal Point Source Discharges; Streambank Modifications/Destabilization; Wet Weather Discharges (Non-Point Source); Impervious Surface/Parking Lot Runoff; Urban Runoff/Storm Sewers

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 3.4. Based on new assessments, the river miles have been more accurately determined as 0.0 to 7.1.

Rolling Fork into Salt River Larue County  
From River Mile 0.0 to 40.7 Segment Length: 40.7  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Salt River into Ohio River Bullitt County  
From River Mile 11.9 to 26.2 Segment Length: 14.3  
Impaired Use(s): Primary Contact Recreation (Nonsupport), Fish Consumption (Partial Support)  
Pollutant(s): Methylmercury; Pathogens  
Suspected Sources: Source Unknown

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 11.4 to 25.2. Based on NHD, the river miles have been more accurately determined as 11.9 to 26.2. KDOW awarded \$304,400 in federal Section 319(h) Grant funds (FFY2003) to the Kentucky Waterways Alliance to develop and initiate implementation of a Watershed Based Plan in the Floyds Fork watershed and \$244,000 (FFY2003) to the Bullitt County Fiscal Court to implement urban stormwater management runoff controls.



**Salt-Licking Basin Unit**  
**Salt River Basin**  
**Streams**

Salt River into Ohio River Anderson County  
From River Mile 78.0 to 89.0 Segment Length: 11.0  
Impaired Use(s): Fish Consumption (Nonsupport)  
Pollutant(s): Methylmercury  
Suspected Sources: Atmospheric Deposition - Toxics; Source Unknown

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 78.0 to 88.5. Based on new assessments, the river miles have been more accurately determined as 78.0 to 89.0.

Short Creek into Beech Fork Washington County  
From River Mile 0.0 to 5.0 Segment Length: 5.0  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Crop Production with Subsurface Drainage;  
Drainage/Filling/Loss of Wetlands; Loss of Riparian Habitat;  
Streambank Modifications/Destabilization; Source Unknown;  
Crop Production (Crop Land or Dry Land)

Sinking Creek into Ohio River Breckinridge County  
From River Mile 8.7 to 15.4 Segment Length: 6.7  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
(Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication  
Biological Indicators; Organic Enrichment (Sewage) Biological  
Indicators  
Suspected Sources: Municipal Point Source Discharges; Agriculture; Habitat  
Modification - Other Than Hydromodification

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 8.9 to 15.6. Based on new assessments, the river miles have been more accurately determined as 8.7 to 15.4.

Sinking Creek into Ohio River Breckinridge County  
From River Mile 15.4 to 39.7 Segment Length: 24.3  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Municipal Point Source Discharges; Agriculture

**Salt-Licking Basin Unit**  
**Salt River Basin**  
**Streams**

South Fork Beargrass Creek into Beargrass Creek Jefferson County  
From River Mile 0.0 to 2.7 Segment Length: 2.7  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
(Nonsupport)  
Pollutant(s): Cadmium; Pathogens; Organic Enrichment (Sewage)  
Biological Indicators  
Suspected Sources: Illegal Dumps or Other Inappropriate Waste Disposal;  
Municipal Point Source Discharges; Urban Runoff/Storm

See Status of TMDLs Under Development Prior to 2006.

South Fork Beargrass Creek into Beargrass Creek Jefferson County  
From River Mile 2.7 to 13.6 Segment Length: 10.9  
Impaired Use(s): Primary Contact Recreation (Nonsupport), Aquatic Life (Partial  
Support)  
Pollutant(s): Pathogens, Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Illegal Dumps or Other Inappropriate Waste Disposal;  
Municipal Point Source Discharges; Urban Runoff/Storm

See Status of TMDLs Under Development Prior to 2006.

Southern Ditch into Pond Creek Jefferson County  
From River Mile 0.0 to 5.9 Segment Length: 5.9  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Illegal Dumps or Other Inappropriate Waste Disposal;  
Municipal Point Source Discharges; Urban Runoff/Storm

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 5.5. Based on NHD, the river miles have been more accurately determined as 0.0 to 5.9.

Sulphur Creek into Chaplin River Anderson County  
From River Mile 0.0 to 10.0 Segment Length: 10.0  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Thompson Creek into Chaplin River Mercer County  
From River Mile 0.0 to 9.2 Segment Length: 9.2  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat; Streambank  
Modifications/Destabilization

**Salt-Licking Basin Unit  
Salt River Basin  
Streams**

Tioga Creek into Abrahams Run Hardin County  
From River Mile 0.0 to 2.5 Segment Length: 2.5  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related);  
NPS Pollution from Military Base Facilities (Other Than Port  
Facilities); Residential Districts; Upstream Source

UT of Pond Creek into Pond Creek Oldham County  
From River Mile 0.0 to 0.5 Segment Length: 0.5  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Chlorine; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Package Plant or Other Permitted Small Flows Discharges

UT to Brooks Run into Brooks Run Bullitt County  
From River Mile 0.0 to 2.0 Segment Length: 2.0  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
(Nonsupport)  
Pollutant(s): Pathogens; Organic Enrichment (Sewage) Biological  
Indicators  
Suspected Sources: Package Plant or Other Permitted Small Flows Discharges;  
Urban Runoff/Storm Sewers

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$304,400 in federal Section 319(h) Grant funds (FFY2003) to the Kentucky Waterways Alliance to develop and initiate implementation of a Watershed Based Plan in the Floyds Fork watershed and \$244,000 (FFY2003) to the Bullitt County Fiscal Court to implement urban stormwater management runoff controls.

UT to Buffalo Run into Buffalo Run Bullitt County  
From River Mile 0.0 to 1.1 Segment Length: 1.1  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Channelization; Highway/Road/Bridge Runoff  
(Non-Construction Related); Loss of Riparian Habitat;  
Residential Districts; Impervious Surface/Parking Lot Runoff;  
Unspecified Urban Stormwater; Urban Runoff/Storm Sewers

KDOW awarded \$244,000 in Section 319(h) Grant funds (FFY2003) to the Bullitt County Fiscal Court to implement urban stormwater management runoff controls.

**Salt-Licking Basin Unit  
Salt River Basin  
Streams**

<u>UT to Hammond Creek into Hammond Creek</u>		Anderson County
From River Mile 0.0 to 1.8		Segment Length: 4.5
Impaired Use(s):	Aquatic Life (Nonsupport)	
Pollutant(s):	Sedimentation/Siltation; Total Kjeldahl Nitrogen (TKN); Nitrate/Nitrite (Nitrite + Nitrate as N)	
Suspected Sources:	Grazing in Riparian or Shoreline Zones; Impacts from Hydrostructure Flow Regulation/Modification; Loss of Riparian Habitat; Streambank Modifications/Destabilization; Upstream Impoundments (e.g., PI-5Irrigated Crop Production NRCS Structures); Livestock (Grazing or Feeding Operations); Unrestricted Cattle Access	
<u>UT to Salt River into Salt River</u>		Mercer County
From River Mile 0.0 to 2.4		Segment Length: 2.4
Impaired Use(s):	Aquatic Life (Partial Support)	
Pollutant(s):	Sedimentation/Siltation	
Suspected Sources:	Grazing in Riparian or Shoreline Zones; Loss of Riparian Habitat; Streambank Modifications/Destabilization; Livestock (Grazing or Feeding Operations); Unrestricted Cattle Access	
<u>UT to Southern Ditch into Southern Ditch</u>		Jefferson County
From River Mile 0.0 to 2.6		Segment Length: 2.6
Impaired Use(s):	Aquatic Life (Nonsupport)	
Pollutant(s):	Sedimentation/Siltation	
Suspected Sources:	Channelization; Commercial Districts (Industrial Parks); Commercial Districts (Shopping/Office Complexes); Highway/Road/Bridge Runoff (Non-Construction Related); Impacts from Hydrostructure Flow Regulation/Modification; Loss of Riparian Habitat; Municipal (Urbanized High Density Area); Package Plant or Other Permitted Small Flows Discharges; Impervious Surface/Parking Lot Runoff; Urban Runoff/Storm Sewers; Introduction of Non-native Organisms (Accidental or Intentional)	
<u>UT to UT to Guist Creek</u>		Shelby County
From River Mile Unknown		Segment Length: 2.4
Impaired Use(s):	Aquatic Life (Partial Support)	
Pollutant(s):	Sedimentation/Siltation	
Suspected Sources:	Grazing in Riparian or Shoreline Zones; Loss of Riparian Habitat; Livestock (Grazing or Feeding Operations); Unrestricted Cattle Access	

**Salt-Licking Basin Unit  
Salt River Basin  
Streams**

Wetwoods Creek into Northern Ditch Jefferson County  
From River Mile 0.0 to 3.7 Segment Length: 3.7  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
(Nonsupport)  
Pollutant(s): Cadmium; Pathogens  
Suspected Sources: Industrial Point Source Discharge; Municipal Point Source  
Discharges; Urban Runoff/Storm Sewers

Wilson Creek into Rolling Fork Bullitt County  
From River Mile 0.0 to 2.2 Segment Length: 2.2  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Oxygen, Dissolved; Sedimentation/Siltation; Total Kjeldahl  
Nitrogen (TKN)  
Suspected Sources: Commercial Districts (Industrial Parks); Municipal (Urbanized  
High Density Area); Impervious Surface/Parking Lot Runoff;  
Urban Runoff/Storm Sewers

KDOW awarded \$336,305 in Section 319(h) Grant funds (FFY2000) to the Bernheim Arboretum and Research Forest to conduct riparian and stream restoration and to provide technical training on natural channel design techniques and methodologies.

Withrow Creek into Beech Fork Nelson County  
From River Mile 0.0 to 3.9 Segment Length: 3.9  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Oxygen, Dissolved; Nutrient/Eutrophication Biological  
Suspected Sources: Other Spill Related Impacts

Yellowbank Creek into Ohio River Breckinridge County  
From River Mile 1.5 to 12.0 Segment Length: 10.5  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
Indicators  
Suspected Sources: Combined Sewer Overflows; Channel Erosion/Incision from  
Upstream Hydromodifications; Streambank  
Modifications/Destabilization; Livestock (Grazing or Feeding  
Operations)

**Salt-Licking Basin Unit**  
**Salt River Basin**  
**Streams**

Younger Creek into Rolling Fork

From River Mile 0.0 to 4.5

Hardin County

Segment Length: 4.5

Impaired Use(s): Aquatic Life (Partial Support)

Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators

Suspected Sources: Channelization; Loss of Riparian Habitat; Municipal Point Source Discharges; Streambank Modifications/Destabilization; Livestock (Grazing or Feeding Operations); Silviculture

**Salt-Licking Basin Unit  
Salt River Basin  
Lakes**

**9.6 Salt River Basin Lakes**

Chickasaw Park Pond

Jefferson County

Acres: 1.5

Impaired Use(s): Fish Consumption (Partial Support)

Pollutant(s): Methylmercury

Suspected Sources: Source Unknown

Guist Creek Lake

Shelby County

Acres: 317

Impaired Use(s): Aquatic Life (Nonsupport), Fish Consumption (Partial Support), Drinking Water (Partial Support)

Pollutant(s): Manganese; Methylmercury; Oxygen, Dissolved; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators; Dissolved Gas Supersaturation

Suspected Sources: Atmospheric Deposition - Toxics; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Source Unknown; Natural Sources; Agriculture; Rural (Residential Areas)

Lake Jericho

Henry County

Acres: 137

Impaired Use(s): Aquatic Life (Nonsupport)

Pollutant(s): Oxygen, Dissolved; Nutrient/Eutrophication Biological Indicators; Dissolved Gas Supersaturation

Suspected Sources: Livestock (Grazing or Feeding Operations); Crop Production (Crop Land or Dry Land); Agriculture

McNeely Lake

Jefferson County

Acres: 51

Impaired Use(s): Fish Consumption (Partial Support)

Pollutant(s): Methylmercury

Suspected Sources: Atmospheric Deposition - Toxics

Shelby Lake

Shelby County

Acres: 17

Impaired Use(s): Aquatic Life (Partial Support)

Pollutant(s): Nutrient/Eutrophication Biological Indicators

Suspected Sources: Internal Nutrient Recycling; Agriculture

**Salt-Licking Basin Unit**  
**Salt River Basin**  
**Lakes**

Taylorsville Lake

Spencer County

Acres: 3050

Impaired Use(s): Aquatic Life (Partial Support), Fish Consumption (Partial Support)

Pollutant(s): Methylmercury; Oxygen, Dissolved; Dissolved Gas Supersaturation

Suspected Sources: Municipal Point Source Discharges; Source Unknown; Livestock (Grazing or Feeding Operations); Upstream Source;

Willisburg Lake

Washington County

Acres: 126

Impaired Use(s): Aquatic Life (Partial Support)

Pollutant(s): Oxygen, Dissolved; Nutrient/Eutrophication Biological Indicators; Dissolved Gas Supersaturation

Suspected Sources: Source Unknown; Upstream Source



**Tennessee-Mississippi-Cumberland Basin Unit  
Lower Cumberland River Basin  
Streams**

**Chapter 10. Tennessee-Mississippi-Cumberland Basin Unit 303(d) List**

**10.1 Lower Cumberland River Basin Streams**

Casey Creek into Little River Trigg County  
From River Mile 0.0 to 3.6 Segment Length: 3.6  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Sources Outside State Jurisdiction or Borders

Claylick Creek into Cumberland River Crittenden County  
From River Mile 2.0 to 4.8 Segment Length: 2.8  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Agriculture

See TMDLs Planned for Development During 2006.

Donaldson Creek into Cumberland River Trigg County  
From River Mile 4.5 to 9.3 Segment Length: 4.8  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Dredge Mining

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 9.6 to 14.2. Based on NHD river miles, the river miles have been more accurately determined as 4.5 to 9.3.

Dry Creek into Eddy Creek, Cumberland River Caldwell County  
From River Mile 0.0 to 3.5 Segment Length: 3.5  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

Dry Creek into Lower Cumberland Trigg County  
From River Mile 4.9 to 7.4 Segment Length: 2.5  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Lower Cumberland River Basin**  
**Streams**

Dry Fork Creek into Noah Springs Branch Christian County  
 From River Mile 5.0 to 5.8 Segment Length: 0.8  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Source Unknown

Eddy Creek into Cumberland River (Lake Barkley) Lyon County  
 From River Mile 8.4 to 10.5 Segment Length: 2.1  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 11.9 to 14.1. Based on NHD river miles, the river miles have been more accurately determined as 8.4 to 10.5. Also, see TMDLs Planned for Development During 2006.

Eddy Creek into Cumberland River (Lake Barkley) Caldwell County  
 From River Mile 13.3 to 16.1 Segment Length: 2.8  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 16.9 to 19.7. Based on NHD river miles, the river miles have been more accurately determined as 13.3 to 16.1.

Elk Fork into Red River Todd County  
 From River Mile 22.0 to 29.0 Segment Length: 7.0  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
 Pollutant(s): Pathogens; Organic Enrichment (Sewage) Biological Indicators; Impairment Unknown  
 Suspected Sources: Municipal Point Source Discharges

Ferguson Creek into Cumberland River Livingston County  
 From River Mile 0.0 to 1.1 Segment Length: 1.1  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2006.

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Lower Cumberland River Basin**  
**Streams**

Ferguson Creek into Cumberland River Livingston County  
 From River Mile 1.1 to 2.2 Segment Length: 1.1  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

Hickory Creek into Cumberland River Livingston County  
 From River Mile 0.0 to 3.8 Segment Length: 3.8  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2006.

Kenady Creek into Muddy Fork, Little River Trigg County  
 From River Mile 0.0 to 3.9 Segment Length: 3.9  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

Little River into Cumberland River (Lake Barkley) Trigg County  
 From River Mile 20.4 to 23.6 Segment Length: 3.2  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Dam Construction (Other than Upstream Flood Control  
 Projects); Impacts from Hydrostructure Flow  
 Regulation/Modification; Source Unknown

Little River into Cumberland River (Lake Barkley) Trigg County  
 From River Mile 23.6 to 33.1 Segment Length: 9.5  
 Impaired Use(s): Aquatic Life (Partial Support), Fish Consumption (Partial  
 Support)  
 Pollutant(s): Iron; Methylmercury; Sedimentation/Siltation;  
 Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Source Unknown

Iron is associated with siltation. See Status of TMDLs Under Development Prior to 2006.

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Lower Cumberland River Basin**  
**Streams**

Little River into Cumberland River (Lake Barkley) Trigg County  
 From River Mile 33.1 to 34.4 Segment Length: 1.3  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Agriculture; Habitat Modification - Other Than Hydromodification

See Status of TMDLs Under Development Prior to 2006.

Little River into Cumberland River (Lake Barkley) Trigg County  
 From River Mile 34.4 to 48.4 Segment Length: 14.0  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators  
 Suspected Sources: Municipal Point Source Discharges; Source Unknown; Crop Production (Crop Land or Dry Land); Agriculture

See Status of TMDLs Under Development Prior to 2006.

Little River into Cumberland River (Lake Barkley) Christian County  
 From River Mile 48.4 to 61.0 Segment Length: 12.6  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators  
 Suspected Sources: Municipal Point Source Discharges; Source Unknown; Crop Production (Crop Land or Dry Land)

See Status of TMDLs Under Development Prior to 2006.

Livingston Creek into Cumberland River Lyon County  
 From River Mile 4.6 to 7.0 Segment Length: 2.4  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens; Impairment Unknown  
 Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2006.

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Lower Cumberland River Basin**  
**Streams**

Livingston Creek into Cumberland River Lyon County  
 From River Mile 11.6 to 15.4 Segment Length: 3.8  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

Long Pond Branch into Muddy Fork, Little River Trigg County  
 From River Mile 2.7 to 3.1 Segment Length: 0.4  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Source Unknown

Lower Branch into North Fork Little River Christian County  
 From River Mile 3.7 to 9.2 Segment Length: 5.5  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

Muddy Fork into Little River Trigg County  
 From River Mile 14.5 to 26.6 Segment Length: 12.1  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

North Fork Little River into Little River Christian County  
 From River Mile 0.0 to 0.3 Segment Length: 0.3  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators  
 Suspected Sources: Municipal Point Source Discharges; Source Unknown; Agriculture; Urban Runoff/Storm Sewers

See Status of TMDLs Under Development Prior to 2006.

North Fork Little River into Little River Christian County  
 From River Mile 0.3 to 6.9 Segment Length: 6.6  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators  
 Suspected Sources: Municipal Point Source Discharges; Agriculture

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Lower Cumberland River Basin**  
**Streams**

North Fork Little River into Little River Christian County  
 From River Mile 6.9 to 11.6 Segment Length: 4.7  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication  
 Biological Indicators; Organic Enrichment (Sewage) Biological  
 Indicators; Impairment Unknown  
 Suspected Sources: Municipal Point Source Discharges; Agriculture

See Status of TMDLs Under Development Prior to 2006.

North Fork Little River into Little River Christian County  
 From River Mile 11.6 to 12.3 Segment Length: 0.7  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Pathogens; Impairment Unknown  
 Suspected Sources: Channelization; Source Unknown; Habitat Modification - Other  
 Than Hydromodification

See Status of TMDLs Under Development Prior to 2006.

North Fork Little River into Little River Christian County  
 From River Mile 12.3 to 16.2 Segment Length: 3.9  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 12.3 to 18.6. Based on NHD river miles, the river miles have been more accurately determined as 12.3 to 16.2. Also, see Status of TMDLs Under Development Prior to 2006.

Pleasant Grove Creek into Red River Logan County  
 From River Mile 0.0 to 2.2 Segment Length: 2.2  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Pathogens; Nutrient/Eutrophication Biological Indicators;  
 Organic Enrichment (Sewage) Biological Indicators  
 Suspected Sources: Grazing in Riparian or Shoreline Zones; Managed Pasture  
 Grazing; On-site Treatment Systems (Septic Systems and  
 Similar Decentralized Systems)

See TMDLs Planned for Development During 2007. KDOW awarded \$125,000 in federal Section 319(h) Grant funds (FFY2005) to Austin Peay University and the Red River Watershed Association to develop and initiate implementation of a Watershed

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Lower Cumberland River Basin**  
**Streams**

Based Plan in the Pleasant Grove Creek watershed. The Red River Watershed Association is an active inter-state watershed group working to improve water quality in the Red River. Further, the Cumberland River Compact, a broader inter-state watershed group, received a \$600,000 Watershed Initiative Grant to implement best management practices in three subwatersheds of the Cumberland River, including Pleasant Grove Creek watershed.

<u>Red River into Cumberland River</u> From River Mile 50.1 to 54.2 Impaired Use(s): Aquatic Life (Partial Support) Pollutant(s): Impairment Unknown Suspected Sources: Source Unknown	Logan County Segment Length: 4.1
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<u>Red River into Cumberland River</u> From River Mile 73.5 to 80.5 Impaired Use(s): Aquatic Life (Partial Support) Pollutant(s): Impairment Unknown Suspected Sources: Source Unknown	Simpson County Segment Length: 7.0
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<u>Richland Creek into Cumberland River</u> From River Mile 0.6 to 5.3 Impaired Use(s): Primary Contact Recreation (Nonsupport) Pollutant(s): Pathogens Suspected Sources: Source Unknown	Livingston County Segment Length: 4.7
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See TMDLs Planned for Development During 2006.

<u>Roaring Paunch Creek into South Fork Cumberland River</u> From River Mile 7.8 to 15.6 Impaired Use(s): Aquatic Life (Nonsupport); Primary Contact Recreation (Nonsupport), Secondary Contact Recreation (Nonsupport) Pollutant(s): pH Suspected Sources: Acid Mine Drainage	McCreary County Segment Length: 7.8
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<u>Sandy Creek into Cumberland River</u> From River Mile 0.0 to 2.3 Impaired Use(s): Primary Contact Recreation (Nonsupport) Pollutant(s): Pathogens Suspected Sources: Source Unknown	Livingston County Segment Length: 2.3
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See TMDLs Planned for Development During 2006.

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Lower Cumberland River Basin**  
**Streams**

Sinking Fork into Little River Trigg County  
 From River Mile 2.2 to 5.6 Segment Length: 3.4  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

See Status of TMDLs Under Development Prior to 2006.

Sinking Fork into Little River Christian County  
 From River Mile 13.6 to 16.6 Segment Length: 3.0  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Organic Enrichment (Sewage) Biological Indicators; Impairment  
 Unknown  
 Suspected Sources: Source Unknown

Skinframe Creek into Livingston Creek Lyon County  
 From River Mile 0.0 to 4.8 Segment Length: 4.8  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Pathogens; Impairment Unknown  
 Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2006.

Skinner Creek into Casey Creek Trigg County  
 From River Mile 0.0 to 5.8 Segment Length: 5.8  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

See Status of TMDLs Under Development Prior to 2006.

South Fork Little River into Little River Christian County  
 From River Mile 0.0 to 10.5 Segment Length: 10.5  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication  
 Biological Indicators; Other  
 Suspected Sources: Municipal Point Source Discharges; Source Unknown;  
 Agriculture

See Status of TMDLs Under Development Prior to 2006.



**Tennessee-Mississippi-Cumberland Basin Unit**  
**Lower Cumberland River Basin**  
**Streams**

South Fork Little River into Little River Christian County  
 From River Mile 10.5 to 19.9 Segment Length: 9.4  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication  
 Biological Indicators; Other  
 Suspected Sources: Agriculture

See Status of TMDLs Under Development Prior to 2006.

South Fork Little River into Little River Christian County  
 From River Mile 20.9 to 25.4 Segment Length: 4.5  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

Spring Creek into Livingston Creek Lyon County  
 From River Mile 3.0 to 3.7 Segment Length: 0.7  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Loss of Riparian Habitat

Sugar Creek into Cumberland River Livingston County  
 From River Mile 2.1 to 6.7 Segment Length: 4.6  
 Impaired Use(s): Primary Contact Recreation (Partial Support)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2006.

Sugar Creek into Muddy Fork, Little River Christian County  
 From River Mile 1.0 to 1.4 Segment Length: 0.4  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Agriculture

Upper Branch into North Fork Little River Christian County  
 From River Mile 0.0 to 2.7 Segment Length: 2.7  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Lower Cumberland River Basin**  
**Lakes**

**10.2 Lower Cumberland River Basin Lakes**

Hematite Lake

Trigg County

Acres: 90

Impaired Use(s): Aquatic Life (Nonsupport)

Pollutant(s): Nutrient/Eutrophication Biological Indicators

Suspected Sources: Natural Sources

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Mississippi River Basin**  
**Streams**

**10.3 Mississippi River Basin Streams**

Bayou de Chien into Obion Creek Hickman County  
 From River Mile 14.0 to 25.9 Segment Length: 11.9  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Agriculture

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$59,868 in federal Section 319(h) Grant funds (FFY2002) to the Jackson Purchase RC&D, Inc. to develop a Watershed Based Plan for the Cane Creek watershed, a tributary to the impaired segment of Bayou de Chien.

Brush Creek into Obion Creek Graves County  
 From River Mile 0.0 to 8.3 Segment Length: 8.3  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Channelization; Dredging (e.g., for Navigation Channels);  
 Agriculture

Brush Creek into Obion Creek Hickman County  
 From River Mile 0.0 to 6.0 Segment Length: 6.0  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Channelization; Loss of Riparian Habitat; Non-Irrigated Crop  
 Production

Caldwell Creek into Terrapin Creek Graves County  
 From River Mile 0.0 to 3.05 Segment Length: 3.05  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Channelization; Loss of Riparian Habitat; Non-Irrigated Crop  
 Production

Cane Creek into Bayou de Chien Hickman County  
 From River Mile 0.0 to 5.4 Segment Length: 5.4  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
 Indicators  
 Suspected Sources: Loss of Riparian Habitat; Non-Irrigated Crop Production

This listing is designated First Priority because it is an Outstanding State Resource Water (OSRW) containing a federally threatened or endangered species. KDOW awarded \$59,868 in federal Section 319(h) Grant funds (FFY2002) to the Jackson Purchase RC&D, Inc. to develop a Watershed Based Plan for the Cane Creek watershed.

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Mississippi River Basin**  
**Streams**

Cane Creek into Shawnee Creek Ballard County  
 From River Mile 0.0 to 3.8 Segment Length: 3.8  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Organic Enrichment (Sewage) Biological Indicators  
 Suspected Sources: Municipal Point Source Discharges

Central Creek into Truman Creek Carlisle County  
 From River Mile 0.8 to 2.5 Segment Length: 1.7  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown

See Status of TMDLs Under Development Prior to 2006.

Cooley Creek into Mayfield Creek Graves County  
 From River Mile 0.6 to 2.3 Segment Length: 1.7  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Industrial Point Source Discharge

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.7 to 2.3. Based on NHD river miles, the river miles have been more accurately determined as 0.6 to 2.3. Also, see Status of TMDLs Under Development Prior to 2006.

Gilbert Creek into Mayfield Creek Graves County  
 From River Mile 1.8 to 3.5 Segment Length: 1.7  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Loss of Riparian Habitat

Goose Creek into Wilson Creek Graves County  
 From River Mile 0.0 to 4.4 Segment Length: 4.4  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Channelization; Loss of Riparian Habitat

Hazel Creek into Axe Lake (Wetland Ponds) Ballard County  
 From River Mile 0.0 to 3.7 Segment Length: 3.7  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Channelization, Source Unknown

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Mississippi River Basin**  
**Streams**

<u>Hurricane Creek into Obion Creek</u>	Carlisle County
From River Mile 0.0 to 3.7	Segment Length: 3.7
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Channelization; Loss of Riparian Habitat; Non-Irrigated Crop Production	
<u>Knob Creek into Blackmore Creek</u>	Graves County
From River Mile 1.1 to 2.2	Segment Length: 1.1
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Crop Production (Crop Land or Dry Land)	
<u>Little Bayou de Chien into Bayou de Chien</u>	Hickman County
From River Mile 0.0 to 2.1	Segment Length: 2.1
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Loss of Riparian Habitat; Agriculture	
<u>Little Bayou de Chien into Bayou de Chien</u>	Fulton County
From River Mile 10.1 to 12.3	Segment Length: 2.2
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Crop Production (Crop Land or Dry Land); Habitat Modification - Other Than Hydromodification	
<u>Little Creek into Obion Creek</u>	Hickman County
From River Mile 0.0 to 6.2	Segment Length: 6.2
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Channelization; Loss of Riparian Habitat	
<u>Little Cypress Creek into Obion Creek</u>	Graves County
From River Mile 0.0 to 2.0	Segment Length: 2.0
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Source Unknown	
<u>Little Mud Creek into Bayou de Chien</u>	Fulton County
From River Mile 0.0 to 1.8	Segment Length: 1.8
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators	
Suspected Sources: Non-Irrigated Crop Production	

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Mississippi River Basin**  
**Streams**

Mayfield Creek into Mississippi River Carlisle County  
 From River Mile 0.0 to 3.4 Segment Length: 3.4  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

Mayfield Creek into Mississippi River Carlisle County  
 From River Mile 8.2 to 13.5 Segment Length: 5.3  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Copper; Iron; Sedimentation/Siltation; Pathogens; Zinc  
 Suspected Sources: Channelization; Source Unknown; Habitat Modification - Other  
 Than Hydromodification

Mayfield Creek into Mississippi River Carlisle County  
 From River Mile 13.5 to 14.8 Segment Length: 1.3  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Agriculture

Mayfield Creek into Mississippi River McCracken County  
 From River Mile 19.2 to 32.9 Segment Length: 13.7  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Channelization; Loss of Riparian Habitat

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 17.4 to 32.9. Based on NHD river miles, the river miles have been more accurately determined as 19.2 to 32.9.

Mayfield Creek into Mississippi River Graves County  
 From River Mile 32.9 to 34.9 Segment Length: 2.0  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Channelization; Loss of Riparian Habitat

Mayfield Creek into Mississippi River Graves County  
 From River Mile 34.9 to 37.6 Segment Length: 2.7  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Copper; Sedimentation/Siltation  
 Suspected Sources: Channelization; Source Unknown; Agriculture

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Mississippi River Basin**  
**Streams**

Mayfield Creek into Mississippi River Graves County  
 From River Mile 37.6 to 40.8 Segment Length: 3.2  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Channelization; Loss of Riparian Habitat; Habitat Modification –  
 Other Than Hydromodification

Mayfield Creek into Mississippi River Graves County  
 From River Mile 40.8 to 43.7 Segment Length: 2.9  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Channelization; Loss of Riparian Habitat

Mayfield Creek into Mississippi River Calloway County  
 From River Mile 57.7 to 59.8 Segment Length: 2.1  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Crop Production (Crop Land or Dry Land)

Mud Creek into Bayou de Chien Fulton County  
 From River Mile 0.0 to 6.4 Segment Length: 6.4  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Channelization; Loss of Riparian Habitat; Non-Irrigated Crop  
 Production

Obion Creek into Mississippi River Fulton County  
 From River Mile 1.3 to 15.8 Segment Length: 14.5  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Iron; Sedimentation/Siltation  
 Suspected Sources: Channelization; Impacts from Hydrostructure Flow  
 Regulation/Modification; Loss of Riparian Habitat;  
 Non-Irrigated Crop Production

Obion Creek into Mississippi River Hickman County  
 From River Mile 38.6 to 42.0 Segment Length: 3.4  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Channelization; Source Unknown

KDOW awarded \$234,676 in federal Section 319(h) funds (FFY1999) to the Obion  
 Creek Watershed Conservancy District to restore a naturalized flow and stream channel  
 to Obion Creek utilizing natural channel design and stream restoration techniques.  
 Stream improvement and channel restoration work has been further enhanced with  
 \$72,000 from the Stream Mitigation Program.

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Mississippi River Basin**  
**Streams**

<u>Obion Creek into Mississippi River</u> From River Mile 42.0 to 47.6	Hickman County Segment Length: 5.6
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Channelization; Crop Production (Crop Land or Dry Land)	
<u>Obion Creek into Mississippi River</u> From River Mile 47.6 to 56.0	Graves County Segment Length: 8.4
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation; Impairment Unknown	
Suspected Sources: Source Unknown; Agriculture	
<u>Opossum Creek into Obion Creek</u> From River Mile 0.0 to 2.2	Graves County Segment Length: 2.2
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Channelization	
<u>Running Slough into Obion River (Reelfoot Lake)</u> From River Mile 0.0 to 15.3	Fulton County Segment Length: 15.3
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation; Turbidity	
Suspected Sources: Crop Production (Crop Land or Dry Land)	
<u>Shawnee Creek Slough into Mississippi River</u> From River Mile 0.0 to 3.0	Ballard County Segment Length: 3.0
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Iron	
Suspected Sources: Source Unknown	
<u>Shawnee Creek Slough into Mississippi River</u> From River Mile 8.9 to 17.9	Ballard County Segment Length: 9.0
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Channelization; Loss of Riparian Habitat; Agriculture	
<u>South Fork into Bayou de Chien</u> From River Mile 2.0 to 7.2	Graves County Segment Length: 5.2
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Crop Production (Crop Land or Dry Land)	

This listing is designated First Priority because it is an Outstanding State Resource Water (OSRW) containing a federally threatened or endangered species.



**Tennessee-Mississippi-Cumberland Basin Unit**  
**Mississippi River Basin**  
**Streams**

<u>UT to Mayfield Creek into Mayfield Creek</u> From River Mile 0.0 to 1.0	McCracken County Segment Length: 1.0
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Agriculture	
<u>UT to Mayfield Creek into Mayfield Creek</u> From River Mile 1.1 to 3.5	Graves County Segment Length: 2.4
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Loss of Riparian Habitat; Agriculture	
<u>UT to Obion Creek into Obion Creek</u> From River Mile 1.6 to 2.2	Hickman County Segment Length: 0.6
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Impairment Unknown	
Suspected Sources: Channelization; Loss of Riparian Habitat; Streambank Modifications/Destabilization; Source Unknown	

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Mississippi River Basin**  
**Lakes**

**10.4 Mississippi River Basin Lakes**

Swan Pond

Ballard County

Acres: 193

Impaired Use(s): Aquatic Life (Nonsupport)

Pollutant(s): Nutrient/Eutrophication Biological Indicators

Suspected Sources: Natural Sources; Agriculture

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Ohio River Basin**  
**Streams**

**10.5 Ohio River Basin Streams**

Bayou Creek into Ohio River McCracken County  
From River Mile 0.0 to 6.5 Segment Length: 6.5  
Impaired Use(s): Aquatic Life (Nonsupport), Minimum Criteria (Partial Support)  
Pollutant(s): Beta Particles and Photon Emitters; Mercury; Lead; Copper  
Suspected Sources: Industrial Point Source Discharge; Inappropriate Waste Disposal

See Status of TMDLs Under Development Prior to 2006.

Clanton Creek into Humphrey Creek Ballard County  
From River Mile 0.0 to 4.9 Segment Length: 4.9  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Channelization; Loss of Riparian Habitat; Non-Irrigated Crop Production

Humphrey Creek into Ohio River Ballard County  
From River Mile 0.0 to 3.4 Segment Length: 3.4  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown; Habitat Modification - Other Than Hydromodification

Humphrey Creek into Ohio River Ballard County  
From River Mile 3.4 to 11.0 Segment Length: 7.6  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Little Bayou Creek into Bayou Creek McCracken County  
From River Mile 0.0 to 6.5 Segment Length: 6.5  
Impaired Use(s): Aquatic Life (Nonsupport), Fish Consumption (Nonsupport), Minimum Criteria (Partial Support)  
Pollutant(s): Beta Particles and Photon Emitters; Lead; Copper  
Suspected Sources: Industrial Point Source Discharge; Inappropriate Waste Disposal

See Status of TMDLs Under Development Prior to 2006.

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Ohio River Basin**  
**Streams**

Massac Creek into Ohio River

From River Mile 3.6 to 4.2

McCracken County

Segment Length: 0.6

Impaired Use(s): Aquatic Life (Partial Support)

Pollutant(s): Sedimentation/Siltation

Suspected Sources: Dredge Mining; Highway/Road/Bridge Runoff  
(Non-Construction Related); Loss of Riparian Habitat;  
Post-Development Erosion and Sedimentation

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Ohio River Basin**  
**Lakes**

**10.6 Ohio River Basin Lakes**

Metropolis Lake

McCracken County

Acres: 36

Impaired Use(s): Fish Consumption (Partial Support)

Pollutant(s): Methylmercury

Suspected Sources: Source Unknown

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Tennessee River Basin**  
**Streams**

**10.7 Tennessee River Basin Streams**

Angle Creek into Little Cypress Creek Marshall County  
From River Mile 0.0 to 0.7 Segment Length: 0.7  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens; Impairment Unknown  
Suspected Sources: Source Unknown

Bear Creek into Tennessee River Marshall County  
From River Mile 3.1 to 6.3 Segment Length: 3.2  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Package Plant or Other Permitted Small Flows Discharges

Bee Creek into Clarks River Calloway County  
From River Mile 0.0 to 1.8 Segment Length: 1.8  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$108,300 in federal Section 319(h) Grant funds (FFY2002) to the Jackson Purchase RC&D, Inc. to develop a Watershed Based Plan for the Upper East Fork Clarks River watershed.

Blizzard Pond into West Fork Clarks River McCracken County  
From River Mile 0.0 to 3.7 Segment Length: 3.7  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

See Status of TMDLs Under Development Prior to 2006.

Camp Creek into West Fork Clarks River McCracken County  
From River Mile 0.0 to 5.4 Segment Length: 5.4  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens; Impairment Unknown; Other  
Suspected Sources: Source Unknown

See Status of TMDLs Under Development Prior to 2006.

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Tennessee River Basin**  
**Streams**

Champion Creek into Island Creek McCracken County  
From River Mile 0.0 to 1.5 Segment Length: 1.5  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Site Clearance (Land Development or Redevelopment)

Chestnut Creek into Clarks River Marshall County  
From River Mile 0.0 to 3.0 Segment Length: 3.0  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens; Impairment Unknown; Other  
Suspected Sources: Source Unknown

See Status of TMDLs Under Development Prior to 2006.

Clarks River into Tennessee River McCracken County  
From River Mile 5.0 to 12.7 Segment Length: 7.7  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Source Unknown

Clarks River into Tennessee River Calloway County  
From River Mile 50.9 to 59.9 Segment Length: 9.0  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Municipal Point Source Discharges; Agriculture; Unspecified Urban Stormwater

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$108,300 in federal Section 319(h) Grant funds (FFY2002) to the Jackson Purchase RC&D, Inc. to develop a Watershed Based Plan for the Upper East Fork Clarks River watershed.

Clarks River into Tennessee River Calloway County  
From River Mile 59.9 to 61.9 Segment Length: 2.0  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens; Impairment Unknown  
Suspected Sources: Source Unknown

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$108,300 in federal Section 319(h) Grant funds (FFY2002) to the Jackson Purchase RC&D, Inc. to develop a Watershed Based Plan for the Upper East Fork Clarks River watershed.

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Tennessee River Basin**  
**Streams**

Clayton Creek into Clarks River Calloway County  
 From River Mile 0.8 to 3.3 Segment Length: 2.5  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

KDOW awarded \$108,300 in federal Section 319(h) Grant funds (FFY2002) to the Jackson Purchase RC&D, Inc. to develop a Watershed Based Plan for the Upper East Fork Clarks River watershed.

Clayton Creek into Clarks River Calloway County  
 From River Mile 3.3 to 7.1 Segment Length: 3.8  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$108,300 in federal Section 319(h) Grant funds (FFY2002) to the Jackson Purchase RC&D, Inc. to develop a Watershed Based Plan for the Upper East Fork Clarks River watershed.

Cypress Creek into Tennessee River Marshall County  
 From River Mile 6.3 to 7.7 Segment Length: 1.5  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Organic Enrichment (Sewage) Biological Indicators  
 Suspected Sources: Loss of Riparian Habitat; Source Unknown

Cypress Creek into Tennessee River Marshall County  
 From River Mile 7.7 to 9.7 Segment Length: 2.0  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

Damon Creek into West Fork Clarks River Calloway County  
 From River Mile 0.0 to 1.8 Segment Length: 1.8  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens; Impairment Unknown  
 Suspected Sources: Animal Feeding Operations (NPS); Source Unknown

See Status of TMDLs Under Development Prior to 2006.



**Tennessee-Mississippi-Cumberland Basin Unit**  
**Tennessee River Basin**  
**Streams**

Guess Creek into Tennessee River Livingston County  
 From River Mile 0.0 to 2.6 Segment Length: 2.6  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

Island Creek into Tennessee River McCracken County  
 From River Mile 0.0 to 5.5 Segment Length: 5.5  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Pathogens; Impairment Unknown  
 Suspected Sources: Source Unknown

Island Creek into Tennessee River McCracken County  
 From River Mile 5.5 to 10.3 Segment Length: 4.8  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

Jonathan Creek into Tennessee River (Kentucky Lake) Calloway County  
 From River Mile 6.2 to 18.0 Segment Length: 11.8  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

KDOW awarded \$132,300 in federal Section 319(h) Grant funds (FFY2000) to the Jackson Purchase RC&D, Inc. to design, install and demonstrate a decentralized wastewater treatment system for over 170 homes in the community of Pirates Cove in the Jonathan Creek watershed.

Little Cypress Creek into Cypress Creek Marshall County  
 From River Mile 0.0 to 3.4 Segment Length: 3.4  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Partial  
 Support)  
 Pollutant(s): Pathogens; Impairment Unknown  
 Suspected Sources: Source Unknown

Little Cypress Creek into Cypress Creek Marshall County  
 From River Mile 3.4 to 6.0 Segment Length: 2.6  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Tennessee River Basin**  
**Streams**

Middle Fork Clarks River into Clarks River Calloway County  
 From River Mile 0.0 to 2.7 Segment Length: 2.7  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication  
 Biological Indicators  
 Suspected Sources: Agriculture

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$108,300 in federal Section 319(h) Grant funds (FFY2002) to the Jackson Purchase RC&D, Inc. to develop a Watershed Based Plan for the Upper East Fork Clarks River watershed.

Middle Fork Clarks River into Clarks River Calloway County  
 From River Mile 2.7 to 4.9 Segment Length: 2.2  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
 Indicators  
 Suspected Sources: Agriculture

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$108,300 in federal Section 319(h) Grant funds (FFY2002) to the Jackson Purchase RC&D, Inc. to develop a Watershed Based Plan for the Upper East Fork Clarks River watershed.

Middle Fork Creek into Clarks River Marshall County  
 From River Mile 0.2 to 6.6 Segment Length: 6.4  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Pathogens; Impairment Unknown  
 Suspected Sources: Source Unknown

See Status of TMDLs Under Development Prior to 2006.

Reeves Branch into Sugar Creek Marshall County  
 From River Mile 0.0 to 0.3 Segment Length: 0.3  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

Spring Creek into West Fork Clarks River Graves County  
 From River Mile 0.0 to 1.8 Segment Length: 1.8  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
 Indicators  
 Suspected Sources: Channelization; Drainage/Filling/Loss of Wetlands

See Status of TMDLs Under Development Prior to 2006.

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Tennessee River Basin**  
**Streams**

Tennessee River into Ohio River Marshall County  
 From River Mile 21.1 to 22.4 Segment Length: 1.3  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Upstream Impoundments (e.g., PI-5Irrigated Crop Production NRCs Structures); Source Unknown

UT to Old Beaver Dam Slough into Old Beaver Dam Slough Marshall County  
 From River Mile 0.0 to 0.5 Segment Length: 0.5  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown; Urban Runoff/Storm Sewers

West Fork Clarks River into Clarks River McCracken County  
 From River Mile 2.6 to 10.1 Segment Length: 7.5  
 Impaired Use(s): Primary Contact Recreation (Partial Support)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown

See Status of TMDLs Under Development Prior to 2006. This segment is located on the canalized portion of West Fork Clarks River. This canalized waterbody diverted flow away from the natural channel of West Fork Clarks River (which was called West Fork of Clarks River – Old Channel in previous reports and is now called West Fork Clarks River (Relict Channel) into West Fork Clarks River).

West Fork Clarks River into Clarks River Graves County  
 From River Mile 12.8 to 16.8 Segment Length: 4.0  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown; Agriculture

See Status of TMDLs Under Development Prior to 2006. This segment is located on the canalized portion of West Fork Clarks River. This canalized waterbody diverted flow away from the natural channel of West Fork Clarks River (which was called West Fork of Clarks River – Old Channel in previous reports and is now called West Fork Clarks River (Relict Channel) into West Fork Clarks River).

West Fork Clarks River into Clarks River Marshall County  
 From River Mile 19.7 to 22.7 Segment Length: 3.0  
 Impaired Use(s): Fish Consumption (Partial Support)  
 Pollutant(s): Methylmercury  
 Suspected Sources: Source Unknown

This segment is located on the canalized portion of West Fork Clarks River. This

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Tennessee River Basin**  
**Streams**

canalized waterbody diverted flow away from the natural channel of West Fork Clarks River (which was called West Fork of Clarks River – Old Channel in previous reports and is now called West Fork Clarks River (Relict Channel) into West Fork Clarks River). There was a duplicate of this segment on the 2004 303(d), which was erroneously listed as being on the West Fork Clarks River-Old Channel: It has been removed for this report.

<u>West Fork Clarks River into Clarks River</u>	Calloway County
From River Mile 22.7 to 27.3	Segment Length: 4.6
Impaired Use(s):	Primary Contact Recreation (Partial Support)
Pollutant(s):	Pathogens
Suspected Sources:	Source Unknown

See Status of TMDLs Under Development Prior to 2006. This canalized waterbody diverted flow away from the natural channel of West Fork Clarks River (which was called West Fork of Clarks River – Old Channel in previous reports and is now called West Fork Clarks River (Relict Channel) into West Fork Clarks River).

<u>West Fork Clarks River into Clarks River</u>	Calloway County
From River Mile 33.1 to 37.2	Segment Length: 4.1
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Impairment Unknown
Suspected Sources:	Source Unknown

This segment is located on the canalized portion of West Fork Clarks River. This canalized waterbody diverted flow away from the natural channel of West Fork Clarks River (which was called West Fork of Clarks River – Old Channel in previous reports and is now called West Fork Clarks River (Relict Channel) into West Fork Clarks River).

West Fork Clarks River (Relict Channel) into West Fork Clarks River

From River Mile 0.0 to 13.8	Graves County
Impaired Use(s):	Aquatic Life (Partial Support)      Segment Length 13.8
Pollutant(s):	Impairment Unknown
Suspected Sources:	Source Unknown

This waterbody, which is the former (natural) channel of West Fork Clarks River, was referred to as West Fork of Clarks River-Old Channel on the 2004 303(d). The name has been changed for clarity and to reflect the fact that this waterbody discharges into West Fork Clarks River, which has now been canalized, instead of discharging into Clarks River as it did before the canal was constructed.



**Tennessee-Mississippi-Cumberland Basin Unit**  
**Upper Cumberland River Basin**  
**Streams**

Brush Creek into Cumberland River Knox County  
 From River Mile 0.0 to 2.8 Segment Length: 2.8  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Turbidity  
 Suspected Sources: Impacts from Abandoned Mine Lands (Inactive); Loss of  
 Riparian Habitat; Silviculture Harvesting; Streambank  
 Modifications/Destabilization; Subsurface (Hardrock) Mining;  
 Surface Mining

Brush Creek into Roundstone Creek Rockcastle County  
 From River Mile 1.1 to 7.6 Segment Length: 6.5  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: On-site Treatment Systems (Septic Systems and Similar  
 Decentralized Systems); Agriculture

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 1.1 to 7.5. Based on NHD river miles, the river miles have been more accurately determined as 1.1 to 7.6. Also, KDOW awarded \$282,892 in federal Section 319(h) Grant funds (FFY2001) to the Kentucky Chapter of The Nature Conservancy to install and demonstrate agricultural BMPs in the Roundstone Creek watershed. Between 1999 and 2005, the Rockcastle County Health Department has installed 71 septic systems in the Brush and Crooked Creek watersheds (tributaries of Roundstone Creek).

Buck Creek into Cumberland River Pulaski County  
 From River Mile 44.9 to 45.4 Segment Length: 0.5  
 Impaired Use(s): Fish Consumption (Partial Support)  
 Pollutant(s): Methylmercury  
 Suspected Sources: Atmospheric Deposition - Toxics; Source Unknown

This listing is designated First Priority because of the presence of a federally threatened and endangered species in this OSRW reach.

Clover Fork into Cumberland River Harlan County  
 From River Mile 29.1 to 30.3 Segment Length: 1.2  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Heap-Leach Extraction Mining; Source Unknown

Cloverlick Creek into Poor Fork Cumberland River Harlan County  
 From River Mile 0.0 to 5.0 Segment Length: 5.0  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Total Suspended Solids (TSS)  
 Suspected Sources: Heap-Leach Extraction Mining

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Upper Cumberland River Basin**  
**Streams**

Cranks Creek into Martins Fork Cumberland River Harlan County  
 From River Mile 1.9 to 2.5 Segment Length: 0.6  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Upstream Impoundments (e.g., PI-5Irrigated Crop Production NRCs Structures); Source Unknown

Crocus Creek into Cumberland River Cumberland County  
 From River Mile 4.8 to 13.8 Segment Length: 9.0  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Loss of Riparian Habitat; Agriculture

Crocus Creek into Cumberland River Adair County  
 From River Mile 13.8 to 16.9 Segment Length: 3.1  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Loss of Riparian Habitat; Streambank Modifications/Destabilization; Agriculture

Crooked Creek into Roundstone Creek Rockcastle County  
 From River Mile 1.0 to 6.4 Segment Length: 5.4  
 Impaired Use(s): Primary Contact Recreation (Partial Support)  
 Pollutant(s): Pathogens  
 Suspected Sources: Agriculture; Sewage Discharges in Unsewered Areas

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$282,892 in federal Section 319(h) Grant funds (FFY2001) to the Kentucky Chapter of The Nature Conservancy to install and demonstrate agricultural BMPs in the Roundstone Creek watershed. Between 1999 and 2005, the Rockcastle County Health Department has installed 71 septic systems in the Brush and Crooked Creek watersheds (tributaries of Roundstone Creek).

Cumberland River into Ohio River Bell County  
 From River Mile 649.0 to 650.6 Segment Length: 1.6  
 Impaired Use(s): Primary Contact Recreation (Partial Support)  
 Pollutant(s): Pathogens  
 Suspected Sources: Municipal Point Source Discharges; Sanitary Sewer Overflows (Collection System Failures); On-Site Treatment Systems (Septic Systems and Similar Decentralized Systems)

Cumberland River into Ohio River Harlan County  
 From River Mile 660.1 to 666.7 Segment Length: 6.6  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Iron; Impairment Unknown  
 Suspected Sources: Source Unknown

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Upper Cumberland River Basin**  
**Streams**

<u>East Fork Lynn Camp Creek into Lynn Camp Creek</u> From River Mile 0.0 to 4.5	Knox County Segment Length: 4.5
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Site Clearance (Land Development or Redevelopment)	
<u>Elk Spring Creek into Beaver Creek</u> From River Mile 0.0 to 7.8	Wayne County Segment Length: 7.8
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Impairment Unknown	
Suspected Sources: Source Unknown	
<u>Ewing Creek into Cumberland River</u> From River Mile 0.0 to 2.7	Harlan County Segment Length: 2.7
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Post-Development Erosion and Sedimentation; Surface Mining	
<u>Ferris Fork Creek into Marrowbone Creek</u> From River Mile 0.0 to 1.2	Cumberland County Segment Length: 1.2
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Loss of Riparian Habitat; Livestock (Grazing or Feeding Operations)	
<u>Gilmore Creek into Crab Orchard Creek</u> From River Mile 0.0 to 4.7	Pulaski County Segment Length: 4.7
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Dredge Mining	
<u>Goodin Creek into Cumberland River</u> From River Mile 2.1 to 2.3	Knox County Segment Length: 0.2
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Loss of Riparian Habitat; Upstream Impoundments (e.g., PI-5Irrigated Crop Production NRCS Structures)	
<u>Hatchell Branch into Eagle Creek</u> From River Mile 0.0 to 1.0	McCreary County Segment Length: 1.0
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Silviculture Activities	



**Tennessee-Mississippi-Cumberland Basin Unit**  
**Upper Cumberland River Basin**  
**Streams**

Indian Creek into Buck Creek Pulaski County  
 From River Mile 0.0 to 4.1 Segment Length: 4.1  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Dredge Mining

KDOW awarded \$330,094 in federal Section 319(h) Grant funds (FFY2005) to the Pulaski County Conservation District to implement BMPs to protect and restore water quality conditions in the Buck Creek watershed.

Jennys Branch into Laurel Creek McCreary County  
 From River Mile 0.0 to 3.4 Segment Length: 3.4  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Silviculture Activities

This listing is designated First Priority because of the presence of a federally threatened and endangered species in this OSRW reach.

Laurel Fork into Clear Fork Whitley County  
 From River Mile 10.3 to 13.9 Segment Length: 3.6  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Non-Irrigated Crop Production; Silviculture Harvesting

There is a federally threatened and endangered species in this OSRW reach.

Laurel River into Cumberland River Laurel County  
 From River Mile 0.0 to 2.3 Segment Length: 2.3  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Upstream Impoundments (e.g., PI-5Irrigated Crop Production NRCS Structures); Source Unknown

Laurel River into Cumberland River Laurel County  
 From River Mile 24.9 to 27.9 Segment Length: 3.0  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Upstream Impoundments (e.g., PI-5Irrigated Crop Production NRCS Structures); Source Unknown

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Upper Cumberland River Basin**  
**Streams**

Laurel River into Cumberland River Laurel County  
 From River Mile 36.6 to 46.3 Segment Length: 9.7  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Animal Feeding Operations (NPS); Managed Pasture Grazing; Non-Irrigated Crop Production; Surface Mining

See TMDLs Planned for Development During 2007. KDOW awarded \$108,989 in federal Section 319(h) Grant funds (FFY2004) to Third Rock Consultants to develop a Watershed Based Plan for the Corbin City Reservoir/Laurel River watershed.

Left Fork Straight Creek into Straight Creek Bell County  
 From River Mile 0.0 to 13.0 Segment Length: 13.0  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport), Secondary Contact Recreation (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Total Suspended Solids (TSS); Turbidity; pH  
 Suspected Sources: Impacts from Abandoned Mine Lands (Inactive); Loss of Riparian Habitat; Silviculture Harvesting; Streambank Modifications/Destabilization; Subsurface (Hardrock) Mining; Surface Mining; Source Unknown; Silviculture Activities

Little Clear Creek into Clear Creek Bell County  
 From River Mile 0.0 to 10.4 Segment Length: 10.4  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport), Secondary Contact Recreation (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; pH  
 Suspected Sources: Heap-Leach Extraction Mining; Silviculture Activities

This listing is the result of the extirpation of *Phoxinus Cumberlandensis* (blackside dace) from the stream since November 1975.

Little Laurel River into Laurel River Laurel County  
 From River Mile 0.0 to 8.3 Segment Length: 8.3  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Partial Support)  
 Pollutant(s): Pathogens; Organic Enrichment (Sewage) Biological Indicators  
 Suspected Sources: Municipal Point Source Discharges

See TMDLs Planned for Development During 2007. KDOW awarded \$108,989 in federal Section 319(h) Grant funds (FFY2004) to Third Rock Consultants to develop a Watershed Based Plan for the Corbin City Reservoir/Laurel River watershed.

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Upper Cumberland River Basin**  
**Streams**

<u>Little Laurel River into Laurel River</u>	Laurel County
From River Mile 8.3 to 12.4	Segment Length: 4.1
Impaired Use(s):	Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Pathogens; Organic Enrichment (Sewage) Biological Indicators; Phosphorus (Total)
Suspected Sources:	Combined Sewer Overflows; Municipal Point Source Discharges; Site Clearance (Land Development or Redevelopment)

See TMDLs Planned for Development During 2007. KDOW awarded \$108,989 in federal Section 319(h) Grant funds (FFY2004) to Third Rock Consultants to develop a Watershed Based Plan for the Corbin City Reservoir/Laurel River watershed.

<u>Little Laurel River into Laurel River</u>	Laurel County
From River Mile 12.4 to 14.6	Segment Length: 2.2
Impaired Use(s):	Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Pathogens; Nutrient/Eutrophication Biological Indicators; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Municipal Point Source Discharges; Agriculture

See TMDLs Planned for Development During 2007. KDOW awarded \$108,989 in federal Section 319(h) Grant funds (FFY2004) to Third Rock Consultants to develop a Watershed Based Plan for the Corbin City Reservoir/Laurel River watershed.

<u>Little Laurel River into Laurel River</u>	Laurel County
From River Mile 14.6 to 22.8	Segment Length: 8.2
Impaired Use(s):	Primary Contact Recreation (Nonsupport)
Pollutant(s):	Pathogens
Suspected Sources:	Livestock (Grazing or Feeding Operations)

See TMDLs Planned for Development During 2007. KDOW awarded \$108,989 in federal Section 319(h) Grant funds (FFY2004) to Third Rock Consultants to develop a Watershed Based Plan for the Corbin City Reservoir/Laurel River watershed.

<u>Little Poplar Creek into Cumberland River</u>	Knox County
From River Mile 0.0 to 2.8	Segment Length: 2.8
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation
Suspected Sources:	Managed Pasture Grazing; Non-Irrigated Crop Production; Site Clearance (Land Development or Redevelopment)



**Tennessee-Mississippi-Cumberland Basin Unit**  
**Upper Cumberland River Basin**  
**Streams**

Marsh Creek into Cumberland River McCreary County  
 From River Mile 13.3 to 16.3 Segment Length: 3.0  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Silviculture Activities

This stream segment is an OSRW containing a federally threatened and endangered species.

Marsh Creek into Cumberland River McCreary County  
 From River Mile 19.0 to 24.1 Segment Length: 5.1  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Agriculture; Coal Mining

This stream segment is an OSRW containing a federally threatened and endangered species. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 18.7 to 24.0. Based on NHD river miles, the river miles have been more accurately determined as 19.0 to 24.1.

Martins Fork into Clover Fork Harlan County  
 From River Mile 10.1 to 15.5 Segment Length: 5.4  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 10.1 to 17.0. Based on NHD river miles, the river miles have been more accurately determined as 10.1 to 15.5.

Martins Fork into Clover Fork Harlan County  
 From River Mile 18.0 to 27.4 Segment Length: 9.4  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
 (Nonsupport), Secondary Contact Recreation (Nonsupport)  
 Pollutant(s): pH  
 Suspected Sources: Coal Mining

A recent biological assessment shows that this segment now fully supports aquatic life use. However, no pH data have been collected. Therefore, this listing has been carried forward from the 1998 303(d) Report.

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Upper Cumberland River Basin**  
**Streams**

<u>Meadow Creek into Cumberland River</u>	Knox County
From River Mile 0.0 to 6.8	Segment Length: 6.8
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Managed Pasture Grazing; Non-Irrigated Crop Production; Surface Mining	
<u>Middle Fork Richland Creek into Richland Creek</u>	Knox County
From River Mile 0.0 to 1.2	Segment Length: 1.2
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Highways, Roads, Bridges, Infrastructure (New Construction); Site Clearance (Land Development or Redevelopment); Surface Mining	
<u>Mitchell Creek into Sinking Creek</u>	Laurel County
From River Mile 0.0 to 3.6	Segment Length: 3.6
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Impairment Unknown	
Suspected Sources: Site Clearance (Land Development or Redevelopment)	
<u>Mud Creek into Clear Fork</u>	Whitley County
From River Mile 0.0 to 5.1	Segment Length: 5.1
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Highways, Roads, Bridges, Infrastructure (New Construction); Non-Irrigated Crop Production; Site Clearance (Land Development or Redevelopment)	
<u>Pitman Creek into Cumberland River</u>	Pulaski County
From River Mile 4.0 to 5.7	Segment Length: 1.7
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Impairment Unknown	
Suspected Sources: Municipal Point Source Discharges	
<u>Poor Fork into Cumberland River</u>	Harlan County
From River Mile 14.9 to 16.3	Segment Length: 1.4
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Highways, Roads, Bridges, Infrastructure (New Construction); Source Unknown	

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Upper Cumberland River Basin**  
**Streams**

Poor Fork into Cumberland River Harlan County  
 From River Mile 25.1 to 27.5 Segment Length: 2.4  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown

Raccoon Creek into South Fork Rockcastle River Laurel County  
 From River Mile 0.0 to 2.7 Segment Length: 2.7  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Heap-Leach Extraction Mining; Livestock (Grazing or Feeding Operations); Crop Production (Crop Land or Dry Land);  
 Silviculture Activities

See TMDLs Planned for Development During 2006.

Renfro Creek into Roundstone Creek Rockcastle County  
 From River Mile 0.0 to 3.0 Segment Length: 3.0  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Organic Enrichment (Sewage)  
 Biological Indicators  
 Suspected Sources: Package Plant or Other Permitted Small Flows Discharges;  
 Upstream Impoundments (e.g., PI-5Irrigated Crop Production  
 NRCS Structures); Unspecified Urban Stormwater

See TMDLs Planned for Development During 2006.

Richland Creek into Cumberland River Knox County  
 From River Mile 0.0 to 6.2 Segment Length: 6.2  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
 Indicators  
 Suspected Sources: Highways, Roads, Bridges, Infrastructure (New Construction);  
 Site Clearance (Land Development or Redevelopment);  
 Surface Mining; Source Unknown

Rock Creek into South Fork Cumberland River McCreary County  
 From River Mile 16.6 to 21.9 Segment Length: 5.3  
 Impaired Use(s): Fish Consumption (Partial Support)  
 Pollutant(s): Methylmercury  
 Suspected Sources: Source Unknown

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Upper Cumberland River Basin**  
**Streams**

<u>Roundstone Creek into Rockcastle River</u> From River Mile 16.9 to 23.7	Rockcastle County Segment Length: 6.8
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Nutrient/Eutrophication Biological Indicators	
Suspected Sources: Livestock (Grazing or Feeding Operations); Habitat Modification - Other Than Hydromodification	

This listing is designated First Priority because of the presence of a federally threatened and endangered species in this OSRW reach. See TMDLs Planned for Development During 2006. KDOW awarded \$282,892 in federal Section 319(h) Grant funds (FFY2001) to the Kentucky Chapter of The Nature Conservancy to install and demonstrate agricultural BMPs in the Roundstone Creek watershed. Between 1999 and 2005, the Rockcastle County Health Department has installed 71 septic systems in the Brush and Crooked Creek watersheds (tributaries of Roundstone Creek).

<u>Ryans Creek into Jellico Creek</u> From River Mile 0.0 to 5.3	McCreary County Segment Length: 5.3
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Total Suspended Solids (TSS)	
Suspected Sources: Heap-Leach Extraction Mining	

<u>Sam Branch into Fishing Creek</u> From River Mile 0.0 to 0.5	Pulaski County Segment Length: 0.5
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Loss of Riparian Habitat; Agriculture	

<u>Sims Fork into Left Fork Straight Creek</u> From River Mile 0.0 to 5.2	Bell County Segment Length: 5.2
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Sedimentation/Siltation; Impairment Unknown	
Suspected Sources: Heap-Leach Extraction Mining; Source Unknown	

This stream segment is an OSRW containing a federally threatened and endangered species.



**Tennessee-Mississippi-Cumberland Basin Unit**  
**Upper Cumberland River Basin**  
**Streams**

Skegg Creek into Rockcastle River Rockcastle County  
 From River Mile 0.0 to 3.2 Segment Length: 3.2  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Non-Irrigated Crop Production; Post-Development Erosion and Sedimentation; Surface Mining; Natural Sources

See TMDLs Planned for Development During 2006.

South Fork Rockcastle River into Rockcastle River Laurel County  
 From River Mile 20.8 to 21.5 Segment Length: 0.7  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Loss of Riparian Habitat; Crop Production (Crop Land or Dry Land)

South Fork Rockcastle River into Rockcastle River Laurel County  
 From River Mile 21.5 to 25.5 Segment Length: 4.0  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Channelization; Loss of Riparian Habitat; Streambank Modifications/Destabilization; Livestock (Grazing or Feeding Operations); Crop Production (Crop Land or Dry Land)

See TMDLs Planned for Development During 2006.

Stinking Creek into Cumberland River Knox County  
 From River Mile 0.0 to 2.1 Segment Length: 2.1  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport), Secondary Contact Recreation (Nonsupport)  
 Pollutant(s): Oil and Grease; Sedimentation/Siltation; pH  
 Suspected Sources: Acid Mine Drainage; Channelization; Impacts from Abandoned Mine Lands (Inactive); Non-Irrigated Crop Production; Petroleum/Natural Gas Production Activities (Permitted); Surface Mining

KDOW awarded \$63,370 in federal Section 319(h) Grant funds (FFY1999) to the Knox County Fiscal Court to conduct nonpoint source education and demonstrate BMPs in the Stinking Creek watershed.

**Tennessee-Mississippi-Cumberland Basin Unit  
Upper Cumberland River Basin  
Streams**

Stoney Fork into Straight Creek Bell County  
From River Mile 0.0 to 2.4 Segment Length: 2.4  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Turbidity  
Suspected Sources: Impacts from Abandoned Mine Lands (Inactive); Loss of Riparian Habitat; Silviculture Harvesting; Streambank Modifications/Destabilization; Subsurface (Hardrock) Mining; Surface Mining

Stony Fork into Bennetts Fork Yellow Creek Bell County  
From River Mile 0.0 to 5.2 Segment Length: 5.2  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Turbidity  
Suspected Sources: Loss of Riparian Habitat; Silviculture Harvesting; Streambank Modifications/Destabilization

Straight Creek into Cumberland River Bell County  
From River Mile 0.0 to 1.7 Segment Length: 1.7  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Heap-Leach Extraction Mining; Source Unknown

UT to Jennys Branch into Jennys Branch McCreary County  
From River Mile 0.0 to 1.1 Segment Length: 1.1  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Post-Development Erosion and Sedimentation

UT to Little Laurel River into Little Laurel River Laurel County  
From River Mile 0.0 to 1.4 Segment Length: 1.4  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat

See TMDLs Planned for Development During 2007. KDOW awarded \$108,989 in federal Section 319(h) Grant funds (FFY2004) to Third Rock Consultants to develop a Watershed Based Plan for the Corbin City Reservoir/Laurel River watershed.

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Upper Cumberland River Basin**  
**Streams**

White Oak Creek into Rock Creek McCreary County  
 From River Mile 0.0 to 4.2 Segment Length: 4.2  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Iron  
 Suspected Sources: Habitat Modification - Other Than Hydromodification; Coal Mining

White Oak Creek into Sinking Creek Laurel County  
 From River Mile 0.0 to 1.0 Segment Length: 1.0  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Total Suspended Solids (TSS); Turbidity  
 Suspected Sources: Managed Pasture Grazing; Non-Irrigated Crop Production; Post-Development Erosion and Sedimentation

Whitley Branch into Little Laurel River Laurel County  
 From River Mile 0.0 to 1.1 Segment Length: 1.0  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Partial Support)  
 Pollutant(s): Pathogens; Organic Enrichment (Sewage) Biological Indicators  
 Suspected Sources: Municipal Point Source Discharges

See TMDLs Planned for Development During 2007. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 1.0. Based on NHD river miles, the river miles have been more accurately determined as 0.0 to 1.1. Also, KDOW awarded \$108,989 in federal Section 319(h) Grant funds (FFY2004) to Third Rock Consultants to develop a Watershed Based Plan for the Corbin City Reservoir/Laurel River watershed. The London Utility Commission is using local funding for rehabilitation of collection system to prevent sanitary sewer overflows.

Whitley Branch into Little Laurel River Laurel County  
 From River Mile 1.1 to 2.5 Segment Length: 1.4  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Sanitary Sewer Overflows (Collection System Failures)

See TMDLs Planned for Development During 2007. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 1.0 to 2.5. Based on NHD river miles, the river miles have been more accurately determined as 1.1 to 2.5. Also, KDOW awarded \$108,989 in federal Section 319(h) Grant funds (FFY2004) to Third Rock Consultants to develop a Watershed Based Plan for the Corbin City Reservoir/Laurel River watershed. The London Utility Commission is using local funding for rehabilitation of collection system to prevent sanitary sewer overflows.

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Upper Cumberland River Basin**  
**Streams**

<u>Wolf Creek into Clear Fork, Cumberland River</u>		Whitley County
From River Mile 0.0 to 1.8		Segment Length: 1.8
Impaired Use(s):	Aquatic Life (Nonsupport)	
Pollutant(s):	Sedimentation/Siltation	
Suspected Sources:	Non-Irrigated Crop Production; Surface Mining	
<u>Yellow Creek into Cumberland River</u>		Bell County
From River Mile 0.0 to 0.8		Segment Length: 0.8
Impaired Use(s):	Aquatic Life (Partial Support)	
Pollutant(s):	Sedimentation/Siltation; Total Dissolved Solids; Organic Enrichment (Sewage) Biological Indicators	
Suspected Sources:	Source Unknown; Habitat Modification - Other Than Hydromodification; Urban Runoff/Storm Sewers	
<u>Yellow Creek into Cumberland River</u>		Bell County
From River Mile 0.8 to 8.9		Segment Length: 8.1
Impaired Use(s):	Aquatic Life (Partial Support)	
Pollutant(s):	Sedimentation/Siltation; Organic Enrichment (Sewage) Biological Indicators	
Suspected Sources:	Unspecified Urban Stormwater; Urban Runoff/Storm Sewers	

**Tennessee-Mississippi-Cumberland Basin Unit**  
**Upper Cumberland River Basin**  
**Lakes**

**10.9 Upper Cumberland River Basin Lakes**

Corbin City Reservoir

Laurel County

Acres: 139

Impaired Use(s): Aquatic Life (Partial Support), Drinking Water (Nonsupport)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators; Organic  
Enrichment (Sewage) Biological Indicators  
Suspected Sources: Internal Nutrient Recycling; Municipal Point Source  
Discharges; Agriculture

KDOW awarded \$108,989 in federal Section 319(h) Grant funds (FFY2004) to Third Rock Consultants to develop a Watershed Based Plan for the Corbin City Reservoir/Laurel River watershed.

Cranks Creek

Harlan County

Acres: 219

Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Partial Support), Secondary Contact Recreation (Partial Support)  
Pollutant(s): pH  
Suspected Sources: Impacts from Abandoned Mine Lands (Inactive)

Lake Cumberland

Russell County

Acres: 50250

Impaired Use(s): Fish Consumption (Partial Support)  
Pollutant(s): Methylmercury  
Suspected Sources: Source Unknown

Wood Creek

Laurel County

Acres: 672

Impaired Use(s): Drinking Water (Partial Support)  
Pollutant(s): Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: On-site Treatment Systems (Septic Systems and Similar  
Decentralized Systems)

Eastern Kentucky Personal Responsibility in a Desirable Environment (PRIDE) funding is being used to sewer a portion of the residences near the lake.

**Green-Tradewater Basin Unit  
Green River Basin  
Streams**

**Chapter 11. Green-Tradewater Basin Unit 303(d) List**

**11.1. Green River Basin Streams**

<u>Adams Fork into Rough River</u> From River Mile 0.0 to 4.6 Impaired Use(s): Aquatic Life (Partial Support) Pollutant(s): Impairment Unknown Suspected Sources: Source Unknown	Ohio County Segment Length: 4.6
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<u>Bacon Creek into Nolin River</u> From River Mile 0.0 to 17.2 Impaired Use(s): Primary Contact Recreation (Nonsupport) Pollutant(s): Pathogens Suspected Sources: On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Agriculture	Hart County Segment Length: 17.2
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See TMDLs Planned for Development During 2007. KDOW awarded \$86,946 in federal Section 319(h) Grant funds (FFY2005) to the Kentucky Waterways Alliance was to develop and initiate implementation of a Watershed Based Plan in the Bacon Creek watershed.

<u>Bacon Creek into Nolin River</u> From River Mile 17.2 to 26.3 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport) Pollutant(s): Sedimentation/Siltation; Pathogens Suspected Sources: Loss of Riparian Habitat; Non-Irrigated Crop Production; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Agriculture	Hart County Segment Length: 9.1
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See TMDLs Planned for Development During 2007. KDOW awarded \$86,946 in federal Section 319(h) Grant funds (FFY2005) to the Kentucky Waterways Alliance was to develop and initiate implementation of a Watershed Based Plan in the Bacon Creek watershed.

<u>Bacon Creek into Nolin River</u> From River Mile 26.3 to 31.2 Impaired Use(s): Primary Contact Recreation (Nonsupport) Pollutant(s): Pathogens Suspected Sources: On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Agriculture	Hart County Segment Length: 4.9
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**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

See Status of TMDLs Under Development Prior to 2006. KDOW awarded \$86,946 in federal Section 319(h) Grant funds (FFY2005) to the Kentucky Waterways Alliance was to develop and initiate implementation of a Watershed Based Plan in the Bacon Creek watershed.

Barren River into Green River Allen County  
 From River Mile 110.0 to 124.3 Segment Length: 14.3  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown

Bat East Creek into Pond Creek Muhlenberg County  
 From River Mile 0.0 to 3.3 Segment Length: 3.3  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
 Suspected Sources: Channelization; Irrigated Crop Production; Loss of Riparian Habitat; Non-Irrigated Crop Production; Petroleum/Natural Gas Production Activities (Permitted); Surface Mining; Habitat Modification - Other Than Hydromodification

Bat East Creek into Pond Creek Muhlenberg County  
 From River Mile 3.3 to 7.1 Segment Length: 3.8  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Total Dissolved Solids; Impairment Unknown  
 Suspected Sources: Petroleum/Natural Gas Production Activities (Permitted); Surface Mining; Agriculture

Bear Creek into Green River Edmonson County  
 From River Mile 14.5 to 22.3 Segment Length: 7.8  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Source Unknown

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 14.5 to 22.2. Based on NHD river miles, the river miles have been more accurately determined as 14.5 to 22.3.

Bear Creek into Green River Grayson County  
 From River Mile 22.3 to 31.7 Segment Length: 9.4  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Loss of Riparian Habitat; Streambank Modifications/Destabilization

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 22.2 to 32.7. Based on NHD river miles, the river miles have been more accurately determined as 22.3 to 31.7.

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Big Creek into Russell Creek Adair County  
 From River Mile 3.0 to 8.2 Segment Length: 5.2  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Pathogens  
 Suspected Sources: Source Unknown; Habitat Modification - Other Than  
 Hydromodification

See TMDLs Planned for Development During 2006. KDOW awarded over \$450,000 in federal Section 319(h) Grant funds (FFY1997, 1999 & 2002) to the Kentucky Division of Conservation and the Adair County Conservation District to implement watershed restoration activities focusing on agriculture in the Green River Conservation Reserve Enhancement Program (CREP) area. The Green River CREP is a \$110 million stream buffer initiative program for land easement purchase and BMP installation.

Big Pitman Creek into Green River Green County  
 From River Mile 0.0 to 13.6 Segment Length: 13.6  
 Impaired Use(s): Primary Contact Recreation (Partial Support)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2006. KDOW awarded over \$450,000 in federal Section 319(h) Grant funds (FFY1997, 1999 & 2002) to the Kentucky Division of Conservation and the Adair County Conservation District to implement watershed restoration activities focusing on agriculture in the Green River Conservation Reserve Enhancement Program (CREP) area. The Green River CREP is a \$110 million stream buffer initiative program for land easement purchase and BMP installation.

Big Pitman Creek into Green River Green County  
 From River Mile 26.9 to 32.0 Segment Length: 5.1  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
 Indicators  
 Suspected Sources: Dredge Mining; Dredging (e.g., for Navigation Channels); Loss  
 of Riparian Habitat; Streambank Modifications/Destabilization;  
 Livestock (Grazing or Feeding Operations); Crop Production  
 (Crop Land or Dry Land)

Big Reedy Creek into Green River Butler County  
 From River Mile 7.5 to 13.6 Segment Length: 6.1  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Pathogens  
 Suspected Sources: Source Unknown; Crop Production (Crop Land or Dry Land);  
 Habitat Modification - Other Than Hydromodification

See TMDLs Planned for Development During 2006.



**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Billy Creek into Valley Creek Hardin County  
 From River Mile 0.0 to 5.9 Segment Length: 5.9  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication Biological Indicators; Impairment Unknown  
 Suspected Sources: Industrial Point Source Discharge; Streambank Modifications/Destabilization; Livestock (Grazing or Feeding Operations); Crop Production (Crop Land or Dry Land); Unspecified Urban Stormwater

See TMDLs Planned for Development During 2006 and TMDLs Planned for Development During 2007.

Brush Creek into Green River Casey County  
 From River Mile 0.0 to 6.2 Segment Length: 6.2  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Managed Pasture Grazing; Non-Irrigated Crop Production

Brush Fork into Long Falls Creek McLean County  
 From River Mile 0.0 to 3.8 Segment Length: 3.8  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport), Secondary Contact Recreation (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; pH  
 Suspected Sources: Channelization; Irrigated Crop Production; Loss of Riparian Habitat; Non-Irrigated Crop Production; Surface Mining

See TMDLs Planned for Development During 2006.

Buck Creek into Buck Fork of Pond River Christian County  
 From River Mile 1.3 to 7.4 Segment Length: 6.1  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Habitat Modification - Other Than Hydromodification

Buck Creek into Green River McLean County  
 From River Mile 0.0 to 8.0 Segment Length: 8.0  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Channelization; Loss of Riparian Habitat; Non-Irrigated Crop Production; Permitted Runoff from Confined Animal Feeding Operations (CAFOs)

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Buck Fork into Pond River Christian County  
From River Mile 14.0 to 20.0 Segment Length: 6.0  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
(Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Pathogens  
Suspected Sources: Source Unknown; Habitat Modification - Other Than  
Hydromodification

Burnett Fork into North Fork of Panther Creek Daviess County  
From River Mile 0.0 to 1.3 Segment Length: 1.3  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nitrogen (Total); Phosphorus (Total)  
Suspected Sources: Channelization; Irrigated Crop Production; Loss of Riparian  
Habitat; Non-Irrigated Crop Production; Streambank  
Modifications/Destabilization

See TMDLs Planned for Development During 2006.

Butler Fork into Russell Creek Adair County  
From River Mile 2.3 to 4.0 Segment Length: 1.7  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
(Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Pathogens  
Suspected Sources: Source Unknown; Habitat Modification - Other Than  
Hydromodification

See TMDLs Planned for Development During 2006.

Calhoun Creek into Green River Casey County  
From River Mile 0.0 to 2.8 Segment Length: 2.8  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
Indicators  
Suspected Sources: Managed Pasture Grazing

Cane Run into South Fork Panther Creek Daviess County  
From River Mile 0.0 to 3.6 Segment Length: 3.6  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
Indicators; Phosphorus (Total)  
Suspected Sources: Channelization; Irrigated Crop Production; Non-Irrigated Crop  
Production; Source Unknown

See TMDLs Planned for Development During 2006.

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Caney Creek into Pond Creek Muhlenberg County  
 From River Mile 0.0 to 3.5 Segment Length: 3.5  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
 Suspected Sources: Channelization; Irrigated Crop Production; Loss of Riparian  
 Habitat; Non-Irrigated Crop Production; Petroleum/Natural Gas  
 Production Activities (Permitted); Post-Development Erosion  
 and Sedimentation

Caney Creek into Pond Creek Muhlenberg County  
 From River Mile 3.5 to 7.5 Segment Length: 4.0  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Agriculture; Habitat Modification - Other Than  
 Hydromodification

Caney Creek into Pond River Muhlenberg County  
 From River Mile 1.4 to 5.3 Segment Length: 3.9  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown

Casey Creek into Green River Casey County  
 From River Mile 3.7 to 4.7 Segment Length: 1.0  
 Impaired Use(s): Primary Contact Recreation (Partial Support)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown

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Cash Creek into Green River Henderson County  
 From River Mile 0.0 to 5.8 Segment Length: 5.8  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Loss of Riparian Habitat; Non-Irrigated Crop Production

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Claylick Creek into Green River Warren County  
 From River Mile 2.0 to 3.1 Segment Length: 1.1  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Pathogens  
 Suspected Sources: Channelization; Source Unknown; Habitat Modification - Other  
 Than Hydromodification

See TMDLs Planned for Development During 2006.

Claylick Creek into South Fork Little Barren River Metcalfe County  
 From River Mile 4.1 to 5.3 Segment Length: 1.2  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
 Indicators  
 Suspected Sources: Highways, Roads, Bridges, Infrastructure (New Construction);  
 Loss of Riparian Habitat; Managed Pasture Grazing

KDOW has awarded \$450,000 in federal Section 319(h) Grant funds (FFY1997, 1999 & 2002) to the Kentucky Division of Conservation and the Adair County Conservation District to implement watershed restoration activities focusing on agriculture in the Green River Conservation Reserve Enhancement Program (CREP) area. The Green River CREP is a \$110 million stream buffer initiative program for land easement purchase and BMP installation.

Cox's Run into Nolin River Hardin County  
 From River Mile 0.0 to 3.2 Segment Length: 3.2  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
 Indicators  
 Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related);  
 Post-Development Erosion and Sedimentation; Streambank  
 Modifications/Destabilization; Livestock (Grazing or Feeding  
 Operations); Crop Production (Crop Land or Dry Land)

Craborchard Creek into Drakes Creek Hopkins County  
 From River Mile 0.0 to 4.6 Segment Length: 4.6  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
 (Nonsupport), Secondary Contact Recreation (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids;  
 Impairment Unknown  
 Suspected Sources: Petroleum/Natural Gas Production Activities (Permitted);  
 Surface Mining; Agriculture; Habitat Modification - Other Than  
 Hydromodification



**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Deer Creek into Green River Webster County  
 From River Mile 8.2 to 17.5 Segment Length: 9.3  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Loss of Riparian Habitat; Streambank  
 Modifications/Destabilization; Crop Production (Crop Land or  
 Dry Land)

Deserter Creek into South Fork Panther Creek Daviess County  
 From River Mile 0.0 to 3.1 Segment Length: 3.1  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Pathogens  
 Suspected Sources: Channelization; Source Unknown; Agriculture; Habitat  
 Modification - Other Than Hydromodification

See TMDLs Planned for Development During 2006.

Dorsey Run into Sinks of Nolin River Hardin County  
 From River Mile 1.9 to 3.7 Segment Length: 1.8  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
 Indicators  
 Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing;  
 Post-Development Erosion and Sedimentation

Drakes Creek into Barren River Warren County  
 From River Mile 0.0 to 23.4 Segment Length: 23.4  
 Impaired Use(s): Fish Consumption (Partial Support)  
 Pollutant(s): Polychlorinated Biphenyls  
 Suspected Sources: Industrial Point Source Discharge

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 23.5. Based on NHD river miles, the river miles have been more accurately determined as 0.0 to 23.4.

Dry Creek into Casey Creek Casey County  
 From River Mile 0.0 to 3.7 Segment Length: 3.7  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Managed Pasture Grazing; Non-Irrigated Crop Production

KDOW awarded over \$450,000 in federal Section 319(h) Grant funds (FFY1997, 1999 & 2002) to the Kentucky Division of Conservation and the Adair County Conservation

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

District to implement watershed restoration activities focusing on agriculture in the Green River Conservation Reserve Enhancement Program (CREP) area. The Green River CREP is a \$110 million stream buffer initiative program for land easement purchase and BMP installation.

East Branch into West Fork of Pond River Christian County  
 From River Mile 0.0 to 2.0 Segment Length: 2.0  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Crop Production (Crop Land or Dry Land); Habitat Modification - Other Than Hydromodification

East Fork Deer Creek into Deer Creek Webster County  
 From River Mile 0.0 to 6.8 Segment Length: 6.8  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Non-Irrigated Crop Production

See TMDLs Planned for Development During 2007.

Elk Creek into Pond River Hopkins County  
 From River Mile 0.0 to 5.4 Segment Length: 5.4  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Channelization; Loss of Riparian Habitat; Non-Irrigated Crop Production

Elk Creek into Pond River Hopkins County  
 From River Mile 7.5 to 10.6 Segment Length: 3.1  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Sanitary Sewer Overflows (Collection System Failures)

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 7.8 to 10.9. Based on NHD river miles, the river miles have been more accurately determined as 7.5 to 10.6.

Elk Pond Creek into Pond River Muhlenberg County  
 From River Mile 0.0 to 4.5 Segment Length: 4.5  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Pathogens  
 Suspected Sources: Source Unknown; Habitat Modification - Other Than Hydromodification

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Flat Creek into Pond River Hopkins County  
 From River Mile 0.0 to 10.6 Segment Length: 10.6  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport), Secondary Contact Recreation (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids; pH  
 Suspected Sources: Acid Mine Drainage; Highway/Road/Bridge Runoff (Non-Construction Related); Highways, Roads, Bridges, Infrastructure (New Construction); Illicit Connections/Hook-Ups to Storm Sewers; Industrial/Commercial Site Stormwater Discharge (Permitted); Petroleum/Natural Gas Production Activities (Permitted); Post-Development Erosion and Sedimentation; Site Clearance (Land Development or Redevelopment); Surface Mining

See Status of TMDLs Under Development Prior to 2006.

Ford Ditch into Rhodes Creek Daviess County  
 From River Mile 0.0 to 2.6 Segment Length: 2.6  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sulfates; Total Dissolved Solids; Phosphorus (Total)  
 Suspected Sources: Channelization; Dredging (e.g., for Navigation Channels); Irrigated Crop Production; Non-Irrigated Crop Production; Petroleum/Natural Gas Production Activities (Permitted); Surface Mining

See TMDLs Planned for Development During 2006.

Gilles Ditch into Rhodes Creek Daviess County  
 From River Mile 0.0 to 4.9 Segment Length: 4.9  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Loss of Riparian Habitat; Streambank Modifications/Destabilization

Glens Fork into Russell Creek Adair County  
 From River Mile 0.0 to 8.0 Segment Length: 8.0  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Pathogens  
 Suspected Sources: Rangeland Grazing; Source Unknown; Habitat Modification - Other Than Hydromodification

See TMDLs Planned for Development During 2006. KDOW awarded over \$450,000 in federal Section 319(h) Grant funds (FFY1997, 1999 & 2002) to the Kentucky Division of



**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Conservation and the Adair County Conservation District to implement watershed restoration activities focusing on agriculture in the Green River Conservation Reserve Enhancement Program (CREP) area. The Green River CREP is a \$110 million stream buffer initiative program for land easement purchase and BMP installation.

Grassy Creek into Rough River Ohio County  
 From River Mile 0.8 to 2.9 Segment Length: 2.1  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Channelization; Dredging (e.g., for Navigation Channels); Loss of Riparian Habitat; Surface Mining

Green River into Ohio River Hart County  
 From River Mile 207.8 to 246.4 Segment Length: 38.6  
 Impaired Use(s): Fish Consumption (Partial Support)  
 Pollutant(s): Methylmercury  
 Suspected Sources: Source Unknown

Groves Creek into Green River Webster County  
 From River Mile 0.0 to 6.2 Segment Length: 6.2  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Loss of Riparian Habitat; Non-Irrigated Crop Production

Havana Creek into Deer Creek Webster County  
 From River Mile 0.0 to 1.9 Segment Length: 1.9  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Channelization; Loss of Riparian Habitat; Non-Irrigated Crop Production

See TMDLs Planned for Development During 2007.

Indian Camp Creek into Green River Butler County  
 From River Mile 0.0 to 3.0 Segment Length: 3.0  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Crop Production (Crop Land or Dry Land); Habitat Modification - Other Than Hydromodification

Indian Camp Creek into Green River Butler County  
 From River Mile 3.9 to 10.2 Segment Length: 6.3  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Crop Production (Crop Land or Dry Land); Habitat Modification - Other Than Hydromodification

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Isaacs Creek into Pond River Muhlenberg County  
From River Mile 0.0 to 7.4 Segment Length: 7.4  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
(Nonsupport), Secondary Contact Recreation (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; pH  
Suspected Sources: Acid Mine Drainage; Impacts from Abandoned Mine Lands  
(Inactive)

Jarrels Creek into Pond River Muhlenberg County  
From River Mile 0.0 to 1.6 Segment Length: 1.6  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
(Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Pathogens  
Suspected Sources: Dredging (e.g., for Navigation Channels); Source Unknown;  
Habitat Modification - Other Than Hydromodification

Jarret Fork into Caney Creek Grayson County  
From River Mile 0.0 to 1.0 Segment Length: 1.0  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
Indicators  
Suspected Sources: Animal Feeding Operations (NPS); Impacts from  
Hydrostructure Flow Regulation/Modification; Upstream  
Impoundments (e.g., PI-5Irrigated Crop Production NRCS  
Structures); Livestock (Grazing or Feeding Operations); Crop  
Production (Crop Land or Dry Land)

Jenny Hollow Branch into Horse Branch Ohio County  
From River Mile 0.0 to 2.4 Segment Length: 2.4  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Channelization; Dredging (e.g., for Navigation Channels); Loss  
of Riparian Habitat; Streambank Modifications/Destabilization;  
Livestock (Grazing or Feeding Operations)

Joes Branch into North Fork Panther Creek Daviess County  
From River Mile 0.0 to 3.5 Segment Length: 3.5  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Channelization; Irrigated Crop Production; Loss of Riparian  
Habitat; Managed Pasture Grazing; Non-Irrigated Crop  
Production; Source Unknown



**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Lick Creek into Green River Henderson County  
From River Mile 5.0 to 13.8 Segment Length: 8.8  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Channelization

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 4.9 to 13.7. Based on new assessment, the river miles have been more accurately determined as 5.0 to 13.8.

Lindy Creek into Lynn Camp Creek Hart County  
From River Mile 0.0 to 0.9 Segment Length: 0.9  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Dredging (e.g., for Navigation Channels); Managed Pasture Grazing

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Little Barren River into Green River Green County  
From River Mile 0.0 to 8.8 Segment Length: 8.8  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

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Little Beaverdam Creek into Green River Warren County  
From River Mile 10.7 to 11.4 Segment Length: 0.7  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat; Silviculture Harvesting

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Little Cypress Creek into Pond River Muhlenberg County  
 From River Mile 0.0 to 9.2 Segment Length: 9.2  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids  
 Suspected Sources: Channelization; Golf Courses; Highway/Road/Bridge Runoff  
 (Non-Construction Related); Irrigated Crop Production;  
 Non-Irrigated Crop Production; Petroleum/Natural Gas  
 Production Activities (Permitted); Surface Mining; Unspecified  
 Urban Stormwater

Little Muddy Creek into Green River Butler County  
 From River Mile 4.9 to 6.4 Segment Length: 1.5  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Crop Production (Crop Land or Dry Land); Habitat  
 Modification - Other Than Hydromodification

Little Muddy Creek into Green River Butler County  
 From River Mile 6.4 to 12.9 Segment Length: 6.5  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
 Indicators  
 Suspected Sources: Loss of Riparian Habitat; Non-Irrigated Crop Production

Long Falls Creek into Green River Reservoir McLean County  
 From River Mile 0.0 to 7.5 Segment Length: 7.5  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids;  
 Pathogens  
 Suspected Sources: Channelization; Irrigated Crop Production; Non-Irrigated Crop  
 Production; Petroleum/Natural Gas Production Activities  
 (Permitted); Surface Mining; Source Unknown

See TMDLs Planned for Development During 2006.

Long Falls Creek into Green River Reservoir McLean County  
 From River Mile 7.5 to 11.8 Segment Length: 4.3  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport), Secondary Contact Recreation (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Pathogens;  
 pH  
 Suspected Sources: Acid Mine Drainage; Channelization; Loss of Riparian Habitat;  
 Non-Irrigated Crop Production

See TMDLs Planned for Development During 2006.

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Long Lick Creek into Rough River Reservoir Breckinridge County  
 From River Mile 4.5 to 6.9 Segment Length: 2.4  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Loss of Riparian Habitat; Livestock (Grazing or Feeding Operations); Crop Production (Crop Land or Dry Land)

McGrady Creek into Caney Creek Ohio County  
 From River Mile 0.0 to 2.0 Segment Length: 2.0  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Habitat Modification - Other Than Hydromodification

Mill Creek into Smith Creek Ohio County  
 From River Mile 0.0 to 3.8 Segment Length: 3.8  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown

Mud River into Green River Butler County  
 From River Mile 0.0 to 9.0 Segment Length: 9.0  
 Impaired Use(s): Fish Consumption (Nonsupport)  
 Pollutant(s): Polychlorinated Biphenyls  
 Suspected Sources: Industrial Point Source Discharge

Mud River into Green River Butler County  
 From River Mile 9.0 to 30.5 Segment Length: 21.5  
 Impaired Use(s): Aquatic Life (Partial Support), Fish Consumption (Nonsupport)  
 Pollutant(s): Methylmercury; Polychlorinated Biphenyls; Other  
 Suspected Sources: Industrial Point Source Discharge; Source Unknown

Mud River into Green River Logan County  
 From River Mile 30.5 to 38.9 Segment Length: 8.4  
 Impaired Use(s): Fish Consumption (Nonsupport)  
 Pollutant(s): Polychlorinated Biphenyls  
 Suspected Sources: Industrial Point Source Discharge

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 30.5 to 64.8. Based on new assessments, the river miles have been more accurately determined as 30.5 to 38.9.

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Mud River into Green River Logan County  
 From River Mile 38.9 to 67.8 Segment Length: 25.9  
 Impaired Use(s): Fish Consumption (Nonsupport)  
 Pollutant(s): Polychlorinated Biphenyls  
 Suspected Sources: Industrial Point Source Discharge

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 30.5 to 64.8. Based on new assessments, the river miles have been more accurately determined as 38.9 to 67.8.

Muddy Creek into Caney Fork Ohio County  
 From River Mile 0.0 to 6.1 Segment Length: 6.1  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Habitat Modification - Other Than Hydromodification

Muddy Creek into Green River Butler County  
 From River Mile 8.3 to 12.1 Segment Length: 3.8  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Channelization; Source Unknown

Muddy Creek into Green River Logan County  
 From River Mile 12.1 to 14.9 Segment Length: 2.8  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Loss of Riparian Habitat; Non-Irrigated Crop Production; Crop Production (Crop Land or Dry Land)

Muddy Creek into Rough River Ohio County  
 From River Mile 1.9 to 3.9 Segment Length: 2.0  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Channelization; Agriculture

Muddy Creek into Rough River Ohio County  
 From River Mile 5.9 to 9.1 Segment Length: 3.2  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Channelization; Non-Irrigated Crop Production; Permitted Runoff from Confined Animal Feeding Operations (CAFOs)

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Narge Creek into Pond River Hopkins County  
 From River Mile 2.2 to 3.9 Segment Length: 1.7  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Channelization; Loss of Riparian Habitat; Streambank  
 Modifications/Destabilization; Crop Production (Crop Land or  
 Dry Land)

Nolin River into Green River Hardin County  
 From River Mile 44.0 to 93.2 Segment Length: 49.2  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Agriculture

North Branch into South Fork Panther Creek Hancock County  
 From River Mile 0.0 to 12.4 Segment Length: 12.4  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Crop Production (Crop Land or Dry Land); Habitat  
 Modification - Other Than Hydromodification

North Fork Barnett Creek into Barnett Creek Ohio County  
 From River Mile 0.0 to 2.8 Segment Length: 2.8  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Channelization; Loss of Riparian Habitat; Non-Irrigated Crop  
 Production

North Fork Panther Creek into Panther Creek Daviess County  
 From River Mile 0.0 to 4.2 Segment Length: 4.2  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Channelization; Irrigated Crop Production; Managed Pasture  
 Grazing; Non-Irrigated Crop Production

North Fork Panther Creek into Panther Creek Daviess County  
 From River Mile 4.2 to 6.0 Segment Length: 1.8  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Pathogens; Impairment Unknown  
 Suspected Sources: Channelization; Source Unknown

See TMDLs Planned for Development During 2006





**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Panther Creek into Green River Daviess County  
 From River Mile 0.0 to 2.7 Segment Length: 2.7  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Turbidity  
 Suspected Sources: Channelization; Loss of Riparian Habitat; Non-Irrigated Crop  
 Production; Unspecified Urban Stormwater

Panther Creek into Green River Daviess County  
 From River Mile 2.7 to 5.6 Segment Length: 2.9  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Agriculture

See TMDLs Planned for Development During 2006.

Panther Creek into Green River Daviess County  
 From River Mile 17.1 to 19.5 Segment Length: 2.4  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Phosphorus (Total)  
 Suspected Sources: Channelization; Irrigated Crop Production; Managed Pasture  
 Grazing; Non-Irrigated Crop Production; Streambank  
 Modifications/Destabilization; Source Unknown

See TMDLs Planned for Development During 2006.

Pettys Fork into Russell Creek Adair County  
 From River Mile 0.0 to 6.0 Segment Length: 6.0  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Pathogens  
 Suspected Sources: Rangeland Grazing; Source Unknown; Habitat Modification -  
 Other Than Hydromodification

See TMDLs Planned for Development During 2006. KDOW awarded \$450,000 in federal Section 319(h) Grant funds (FFY1997, 1999 & 2002) to the Kentucky Division of Conservation and the Adair County Conservation District to implement watershed restoration activities focusing on agriculture in the Green River Conservation Reserve Enhancement Program (CREP) area. The Green River CREP is a \$110 million stream buffer initiative program for land easement purchase and BMP installation.

Pigeon Creek into Muddy Creek Ohio County  
 From River Mile 0.0 to 2.9 Segment Length: 2.9  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
 Suspected Sources: Acid Mine Drainage; Non-Irrigated Crop Production

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Pleasant Run into Drakes Creek Hopkins County  
 From River Mile 0.0 to 2.1 Segment Length: 2.1  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
 (Nonsupport), Secondary Contact Recreation (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Habitat Modification - Other Than Hydromodification

KDOW has awarded two Section 319(h) Grants to the Kentucky Division of Abandoned Mine Lands for watershed restoration work in this watershed: (1) \$756,286 (FFY2001) to restore abandoned mine sites and remediate acid mine drainage in Pleasant Run and Fox Creek (a Tradewater River Basin tributary) and (2) \$720,440 (FFY2005) to develop a Watershed Based Plan and continue acid mine drainage remediation in the Pleasant Run watershed.

Plum Creek into Pond Creek Muhlenberg County  
 From River Mile 0.0 to 2.5 Segment Length: 2.5  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Chloride; Total Dissolved Solids  
 Suspected Sources: Inappropriate Waste Disposal

Plum Creek into Pond Creek Muhlenberg County  
 From River Mile 2.5 to 4.3 Segment Length: 1.8  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Pathogens  
 Suspected Sources: Source Unknown; Habitat Modification - Other Than  
 Hydromodification

Pond Creek into Green River Muhlenberg County  
 From River Mile 4.9 to 7.5 Segment Length: 2.6  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Chloride; Sedimentation/Siltation; Sulfates; Total Dissolved  
 Solids  
 Suspected Sources: Channelization; Petroleum/Natural Gas Production Activities  
 (Permitted); Post-Development Erosion and Sedimentation;  
 Streambank Modifications/Destabilization; Surface Mining;  
 Inappropriate Waste Disposal

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 4.7 to 9.4. Based on NHD river miles, the river miles have been more accurately determined as 4.9 to 7.5.

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

<u>Pond Creek into Green River</u>	Muhlenberg County
From River Mile 7.5 to 11.7	Segment Length: 4.2
Impaired Use(s):	Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport), Secondary Contact Recreation (Nonsupport)
Pollutant(s):	Chloride; Sedimentation/Siltation; Sulfates; Total Dissolved Solids; pH
Suspected Sources:	Acid Mine Drainage; Channelization; Petroleum/Natural Gas Activities; Petroleum/Natural Gas Production Activities (Permitted); Streambank Modifications/Destabilization; Surface Mining; Habitat Modification - Other Than Hydromodification; Inappropriate Waste Disposal

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 9.4 to 13.6. Based on NHD river miles, the river miles have been more accurately determined as 7.5 to 11.7.

<u>Pond Creek into Green River</u>	Muhlenberg County
From River Mile 11.7 to 14.3	Segment Length: 2.6
Impaired Use(s):	Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport), Secondary Contact Recreation (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Total Dissolved Solids; pH
Suspected Sources:	Acid Mine Drainage; Habitat Modification - Other Than Hydromodification; Coal Mining

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 13.6 to 16.3. Based on NHD river miles, the river miles have been more accurately determined as 11.7 to 14.3.

<u>Pond Creek into Green River</u>	Muhlenberg County
From River Mile 14.3 to 18.1	Segment Length: 3.8
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport), Secondary Contact Recreation (Nonsupport)
Pollutant(s):	pH
Suspected Sources:	Acid Mine Drainage; Channelization; Irrigated Crop Production; Loss of Riparian Habitat; Managed Pasture Grazing; Non-Irrigated Crop Production; Post-Development Erosion and Sedimentation

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 16.3 to 20.0. Based on NHD river miles, the river miles have been more accurately determined as 14.3 to 18.1.

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Pond Creek into Green River Muhlenberg County  
 From River Mile 18.1 to 21.4 Segment Length: 3.3  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
 (Nonsupport), Secondary Contact Recreation (Nonsupport)  
 Pollutant(s): pH; Impairment Unknown  
 Suspected Sources: Acid Mine Drainage; Loss of Riparian Habitat; Streambank  
 Modifications/Destabilization; Surface Mining; Habitat  
 Modification - Other Than Hydromodification

See Status of TMDLs Under Development Prior to 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 20.0 to 23.8. Based on NHD river miles, the river miles have been more accurately determined as 18.1 to 21.4.

Pond Drain into Cypress Creek McLean County  
 From River Mile 0.0 to 2.0 Segment Length: 2.0  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
 Suspected Sources: Loss of Riparian Habitat; Non-Irrigated Crop Production

Pond River into Green River Hopkins County  
 From River Mile 1.0 to 20.8 Segment Length: 19.8  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
 Suspected Sources: Heap-Leach Extraction Mining; Surface Mining; Habitat  
 Modification - Other Than Hydromodification

Pond River into Green River Muhlenberg County  
 From River Mile 20.8 to 31.1 Segment Length: 10.3  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Surface Mining; Habitat Modification - Other Than  
 Hydromodification; Coal Mining (Subsurface)

Pond River into Green River Muhlenberg County  
 From River Mile 69.1 to 79.7 Segment Length: 10.6  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Habitat Modification - Other Than Hydromodification

Poplar Grove Branch into Big Brush Creek Taylor County  
 From River Mile 0.0 to 3.0 Segment Length: 3.0  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2006.

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Render Creek into Lewis Creek Ohio County  
 From River Mile 0.0 to 3.3 Segment Length: 3.3  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
 (Nonsupport), Secondary Contact Recreation (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids  
 Suspected Sources: Acid Mine Drainage; Channelization; Loss of Riparian Habitat;  
 Petroleum/Natural Gas Production Activities (Permitted);  
 Post-Development Erosion and Sedimentation; Surface Mining

Rhodes Creek into Green River Daviess County  
 From River Mile 0.0 to 1.9 Segment Length: 1.9  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Non-Irrigated Crop Production; Unspecified Urban Stormwater

Rhodes Creek into Panther Creek Daviess County  
 From River Mile 0.0 to 2.2 Segment Length: 2.2  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Phosphorus (Total)  
 Suspected Sources: Channelization; Irrigated Crop Production; Loss of Riparian  
 Habitat; Non-Irrigated Crop Production

See TMDLs Planned for Development During 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 7.3. Based on NHD river miles, the river miles have been more accurately determined as 0.0 to 2.2.

Rhodes Creek into Panther Creek Daviess County  
 From River Mile 2.2 to 7.5 Segment Length: 5.3  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
 Indicators; Phosphorus (Total)  
 Suspected Sources: Channelization; Irrigated Crop Production; Loss of Riparian  
 Habitat; Non-Irrigated Crop Production; Streambank  
 Modifications/Destabilization; Crop Production (Crop Land or  
 Dry Land)

See TMDLs Planned for Development During 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 7.3. Based on NHD river miles, the river miles have been more accurately determined as 0.0 to 7.5.

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Richland Slough into Green River Henderson County  
 From River Mile 0.0 to 6.2 Segment Length: 6.2  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Non-Irrigated Crop Production; Agriculture

Russell Creek into Green River Adair County  
 From River Mile 40.0 to 41.5 Segment Length: 1.5  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2006. KDOW awarded over \$450,000 in federal Section 319(h) Grant funds (FFY1997, 1999 & 2002) to the Kentucky Division of Conservation and the Adair County Conservation District to implement watershed restoration activities focusing on agriculture in the Green River Conservation Reserve Enhancement Program (CREP) area. The Green River CREP is a \$110 million stream buffer initiative program for land easement purchase and BMP installation.

Salt Lick Creek into Gasper River Warren County  
 From River Mile 0.0 to 1.3 Segment Length: 1.0  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Loss of Riparian Habitat; Agriculture

Sand Lick Creek into Pond Creek Muhlenberg County  
 From River Mile 0.0 to 3.0 Segment Length: 3.0  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing; Source Unknown

South Fork Beaver Creek into Beaver Creek Barren County  
 From River Mile 1.2 to 5.9 Segment Length: 4.7  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related); Loss of Riparian Habitat; Source Unknown

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

<u>South Fork Panther Creek into Panther Creek</u>	Daviess County
From River Mile 0.0 to 2.4	Segment Length: 2.4
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Copper; Sedimentation/Siltation; Pathogens; Nutrient/Eutrophication Biological Indicators; Phosphorus
Suspected Sources:	Irrigated Crop Production; Loss of Riparian Habitat; Non-Irrigated Crop Production; Silviculture Harvesting; Streambank Modifications/Destabilization; Source Unknown

See TMDLs Planned for Development During 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 2.3. Based on NHD river miles, the river miles have been more accurately determined as 0.0 to 2.4.

<u>South Fork Panther Creek into Panther Creek</u>	Daviess County
From River Mile 2.4 to 9.6	Segment Length: 7.15
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Impairment Unknown
Suspected Sources:	Channelization; Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO); Source Unknown

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 2.3 to 9.5. Based on NHD river miles, the river miles have been more accurately determined as 2.4 to 9.6.

<u>South Fork Panther Creek into Panther Creek</u>	Daviess County
From River Mile 9.6 to 13.5	Segment Length: 3.95
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Pathogens; Phosphorus (Total)
Suspected Sources:	Channelization; Irrigated Crop Production; Managed Pasture Grazing; Non-Irrigated Crop Production; Agriculture; Habitat Modification - Other Than Hydromodification

See TMDLs Planned for Development During 2006. The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 9.5 to 13.5. Based on NHD river miles, the river miles have been more accurately determined as 9.6 to 13.5.





**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Three Lick Fork into Muddy Creek Ohio County  
 From River Mile 0.0 to 3.3 Segment Length: 3.3  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Channelization; Loss of Riparian Habitat; Non-Irrigated Crop Production; Surface Mining

Town Branch into Mud River Logan County  
 From River Mile 0.0 to 6.7 Segment Length: 6.7  
 Impaired Use(s): Fish Consumption (Nonsupport)  
 Pollutant(s): Polychlorinated Biphenyls  
 Suspected Sources: Industrial Point Source Discharge

UT to Butler Branch into Butler Branch Adair County  
 From River Mile 0.0 to 1.7 Segment Length: 1.7  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing

KDOW has awarded \$450,000 in federal Section 319(h) Grant funds (FFY1997, 1999 & 2002) to the Kentucky Division of Conservation and the Adair County Conservation District to implement watershed restoration activities focusing on agriculture in the Green River Conservation Reserve Enhancement Program (CREP) area. The Green River CREP is a \$110 million stream buffer initiative program for land easement purchase and BMP installation.

UT to Cool Springs Creek into Cool Springs Creek Adair County  
 From River Mile 0.0 to 1.6 Segment Length: 1.6  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Loss of Riparian Habitat; Agriculture

KDOW awarded over \$450,000 in federal Section 319(h) Grant funds (FFY1997, 1999 & 2002) to the Kentucky Division of Conservation and the Adair County Conservation District to implement watershed restoration activities focusing on agriculture in the Green River Conservation Reserve Enhancement Program (CREP) area. The Green River CREP is a \$110 million stream buffer initiative program for land easement purchase and BMP installation.

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

<u>UT to Cypress Creek into Cypress Creek</u>	Muhlenberg County
From River Mile 0.0 to 1.6	Segment Length: 1.6
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Irrigated Crop Production; Loss of Riparian Habitat; Managed Pasture Grazing; Non-Irrigated Crop Production; Unspecified Urban Stormwater	
<u>UT to Elk Creek into Elk Creek</u>	Hopkins County
From River Mile 0.0 to 1.0	Segment Length: 1.0
Impaired Use(s): Primary Contact Recreation (Nonsupport)	
Pollutant(s): Pathogens	
Suspected Sources: Sanitary Sewer Overflows (Collection System Failures)	
<u>UT to Flat Creek into Flat Creek</u>	Hopkins County
From River Mile 0.0 to 3.1	Segment Length: 3.1
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Impairment Unknown	
Suspected Sources: Surface Mining	
<u>UT to Flat Creek into Flat Creek</u>	Hopkins County
From River Mile 3.1 to 4.1	Segment Length: 1.0
Impaired Use(s): Primary Contact Recreation (Nonsupport)	
Pollutant(s): Pathogens	
Suspected Sources: Sanitary Sewer Overflows (Collection System Failures)	
<u>UT to Pond Creek into Pond Creek</u>	Muhlenberg County
From River Mile 0.0 to 2.3	Segment Length: 2.3
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Impairment Unknown	
Suspected Sources: Surface Mining	
<u>UT to West Fork Lewis Creek into West Fork Lewis Creek</u>	Ohio County
From River Mile 0.0 to 2.2	Segment Length: 2.2
Impaired Use(s): Aquatic Life (Nonsupport)	
Pollutant(s): Impairment Unknown	
Suspected Sources: Habitat Modification - Other Than Hydromodification	

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

UT to Wiggington Creek into Wiggington Creek Logan County  
 From River Mile 0.9 to 1.9 Segment Length: 1.0  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Loss of Riparian Habitat; Streambank  
 Modifications/Destabilization; Source Unknown; Crop  
 Production (Crop Land or Dry Land); Habitat Modification -  
 Other Than Hydromodification

Valley Creek into Nolin River Hardin County  
 From River Mile 0.0 to 3.5 Segment Length: 3.5  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Pathogens; Impairment Unknown  
 Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2006.

Valley Creek into Nolin River Hardin County  
 From River Mile 8.0 to 10.3 Segment Length: 2.3  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
 Indicators; Impairment Unknown  
 Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related);  
 Industrial Point Source Discharge; Loss of Riparian Habitat;  
 Streambank Modifications/Destabilization; Livestock (Grazing  
 or Feeding Operations); Crop Production (Crop Land or Dry Land)

See TMDLs Planned for Development During 2007.

Valley Creek into Nolin River Hardin County  
 From River Mile 10.3 to 11.8 Segment Length: 1.5  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2006.

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

West Fork Drakes Creek into Drakes Creek Warren County  
 From River Mile 0.0 to 9.9 Segment Length: 9.9  
 Impaired Use(s): Fish Consumption (Partial Support)  
 Pollutant(s): Polychlorinated Biphenyls  
 Suspected Sources: Industrial Point Source Discharge

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 23.4. Based on NHD river miles, the river miles have been more accurately determined as 0.0 to 9.9.

West Fork Drakes Creek into Drakes Creek Simpson County  
 From River Mile 9.9 to 23.4 Segment Length: 13.5  
 Impaired Use(s): Fish Consumption (Partial Support)  
 Pollutant(s): Polychlorinated Biphenyls  
 Suspected Sources: Industrial Point Source Discharge

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 0.0 to 23.4. Based on NHD river miles, the river miles have been more accurately determined as 9.9 to 23.4.

West Fork Pond River into Pond River Christian County  
 From River Mile 1.6 to 8.9 Segment Length: 7.3  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Habitat Modification - Other Than Hydromodification

West Fork Pond River into Pond River Christian County  
 From River Mile 19.6 to 26.0 Segment Length: 6.4  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Livestock (Grazing or Feeding Operations); Habitat Modification - Other Than Hydromodification

Wolf Branch into Rhodes Creek Daviess County  
 From River Mile 0.0 to 4.1 Segment Length: 4.1  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators; Phosphorus (Total)  
 Suspected Sources: Channelization; Irrigated Crop Production; Loss of Riparian Habitat; Non-Irrigated Crop Production

See TMDLs Planned for Development During 2006.

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Streams**

Wolf Lick Creek into Mud River

From River Mile 3.3 to 13.7

Logan County

Segment Length: 10.4

Impaired Use(s): Aquatic Life (Partial Support)

Pollutant(s): Sedimentation/Siltation

Suspected Sources: Habitat Modification - Other Than Hydromodification

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Lakes**

**11.2. Green River Basin Lakes**

Barren River Reservoir

Allen County  
Acres: 10000

Impaired Use(s): Fish Consumption (Partial Support)  
Pollutant(s): Methylmercury  
Suspected Sources: Atmospheric Deposition - Toxics; Source Unknown

Campbellsville City Reservoir

Taylor County  
Acres: 63

Impaired Use(s): Secondary Contact Recreation (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Upstream Source; Natural Sources

Caneyville City Reservoir

Grayson County  
Acres: 75

Impaired Use(s): Secondary Contact Recreation (Partial Support), Drinking Water (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Natural Sources

Green River

Taylor County  
Acres: 8210

Impaired Use(s): Fish Consumption (Partial Support)  
Pollutant(s): Methylmercury; Polychlorinated Biphenyls  
Suspected Sources: Industrial Point Source Discharge

Lake Luzerne

Muhlenberg County  
Acres: 55

Impaired Use(s): Drinking Water (Partial Support)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Source Unknown

Rough River

Hardin County  
Acres: 5100

Impaired Use(s): Fish Consumption (Partial Support)  
Pollutant(s): Methylmercury  
Suspected Sources: Source Unknown

**Green-Tradewater Basin Unit**  
**Green River Basin**  
**Lakes**

Salem Lake

Larue County

Acres: 99

Impaired Use(s): Secondary Contact Recreation (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Grazing in Riparian or Shoreline Zones; Agriculture; Habitat  
Modification - Other Than Hydromodification

Spa Lake

Logan County

Acres: 240

Impaired Use(s): Secondary Contact Recreation (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Natural Sources; Agriculture



**Green-Tradewater Basin Unit**  
**Ohio River Basin**  
**Streams**

**11.3. Ohio River Basin Streams**

Bayou Creek into Ohio River Livingston County  
 From River Mile 0.0 to 17.3 Segment Length: 17.3  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Organic Enrichment (Sewage)  
 Biological Indicators  
 Suspected Sources: Loss of Riparian Habitat; Source Unknown

Bear Run into Clover Creek Breckinridge County  
 From River Mile 1.5 to 1.9 Segment Length: 0.4  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
 Indicators  
 Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing; Silviculture  
 Harvesting

Blackford Creek into Ohio River Hancock County  
 From River Mile 3.6 to 8.0 Segment Length: 4.4  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Channelization; Source Unknown

Canoe Creek into Ohio River Henderson County  
 From River Mile 0.0 to 3.9 Segment Length: 3.9  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Chromium (Total); Copper; Pathogens; Zinc  
 Suspected Sources: Source Unknown

Casey Creek into Highland Creek Union County  
 From River Mile 0.6 to 9.5 Segment Length: 8.9  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Total Dissolved Solids  
 Suspected Sources: Channelization; Drainage/Filling/Loss of Wetlands; Dredging  
 (e.g., for Navigation Channels); Impacts from Hydrostructure  
 Flow Regulation/Modification; Irrigated Crop Production; Loss  
 of Riparian Habitat; Petroleum/Natural Gas Production  
 Activities (Permitted); Streambank Modifications/Destabilization

**Green-Tradewater Basin Unit  
Ohio River Basin  
Streams**

Clover Creek into Ohio River Breckinridge County  
From River Mile 7.8 to 9.2 Segment Length: 1.4  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Impacts from Hydrostructure Flow Regulation/Modification;  
Livestock (Grazing or Feeding Operations); Crop Production  
(Crop Land or Dry Land)

Crooked Creek into Ohio River Crittenden County  
From River Mile 0.0 to 11.7 Segment Length: 11.7  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Source Unknown

Crooked Creek into Ohio River Crittenden County  
From River Mile 22.7 to 23.7 Segment Length: 1.0  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Sanitary Sewer Overflow (SSO)

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 22.2 to 23.3. Based on NHD river miles, the river miles have been more accurately determined as 22.7 to 23.7.

Deer Creek into Ohio River Livingston County  
From River Mile 0.0 to 7.9 Segment Length: 7.9  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Agriculture

Goose Pond Ditch/Wardens Slough into Ohio River Union County  
From River Mile 0.0 to 14.0 Segment Length: 14.0  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Loss of Riparian Habitat; Streambank  
Modifications/Destabilization; Crop Production (Crop Land or  
Dry Land)

**Green-Tradewater Basin Unit**  
**Ohio River Basin**  
**Streams**

Highland Creek into Ohio River Union County  
From River Mile 0.0 to 7.1 Segment Length: 7.1  
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
(Nonsupport)  
Pollutant(s): Pathogens; Impairment Unknown  
Suspected Sources: Highways, Roads, Bridges, Infrastructure (New Construction);  
Loss of Riparian Habitat; Streambank  
Modifications/Destabilization; Agriculture

Rush Creek into Crooked Creek Crittenden County  
From River Mile 0.0 to 1.3 Segment Length: 1.3  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Organic Enrichment (Sewage) Biological Indicators  
Suspected Sources: Municipal Point Source Discharges; Unspecified Urban  
Stormwater

Sugg Creek into Cypress Creek Union County  
From River Mile 0.0 to 1.4 Segment Length: 1.4  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Turbidity  
Suspected Sources: Channelization; Loss of Riparian Habitat; Non-Irrigated Crop  
Production

**Green-Tradewater Basin Unit**  
**Ohio River Basin**  
**Lakes**

**11.4. Ohio River Basin Lakes**

Scenic Lake

Henderson County

Acres: 18

Impaired Use(s): Aquatic Life (Partial Support)

Pollutant(s): Nutrient/Eutrophication Biological Indicators

Suspected Sources: Contaminated Sediments; Internal Nutrient Recycling

**Green-Tradewater Basin Unit  
Tradewater Basin  
Streams**

**11.5. Tradewater River Basin Streams**

Bishop Ditch into Caney Fork Webster County  
From River Mile 3.0 to 5.7 Segment Length: 2.7  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Turbidity; Nutrient/Eutrophication  
Biological Indicators  
Suspected Sources: Animal Feeding Operations (NPS); Heap-Leach Extraction  
Mining; Non-Irrigated Crop Production

Buffalo Creek into Tradewater River Hopkins County  
From River Mile 0.0 to 6.7 Segment Length: 6.7  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
Suspected Sources: Channelization; Loss of Riparian Habitat; Non-Irrigated Crop  
Production; Source Unknown

Bull Creek into Slover Creek Webster County  
From River Mile 0.0 to 1.0 Segment Length: 1.0  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Channelization; Non-Irrigated Crop Production; Habitat  
Modification - Other Than Hydromodification

Caney Creek into Donaldson Creek Caldwell County  
From River Mile 0.0 to 3.3 Segment Length: 3.3  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
Indicators  
Suspected Sources: Loss of Riparian Habitat; Non-Irrigated Crop Production;  
Source Unknown

Caney Creek into Tradewater River Hopkins County  
From River Mile 0.0 to 8.8 Segment Length: 8.8  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
(Nonsupport), Secondary Contact Recreation (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; pH  
Suspected Sources: Acid Mine Drainage; Channelization; Loss of Riparian Habitat;  
Surface Mining

See TMDLs Planned for Development During 2006. KDOW awarded \$756,286 in federal Section 319(h) Grant funds (FFY2001) to the Kentucky Division of Abandoned Mine Lands to restore abandoned mine sites and remediate acid mine drainage in Pleasant Run (a Green River Basin tributary) and Fox Creek, a tributary to Caney Creek.

**Green-Tradewater Basin Unit**  
**Tradewater Basin**  
**Streams**

Caney Fork into Craborchard Creek Webster County  
 From River Mile 3.5 to 7.9 Segment Length: 4.4  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Impacts from Hydrostructure Flow Regulation/Modification; Non-Irrigated Crop Production

Castleberry Creek into Tradewater River Christian County  
 From River Mile 0.0 to 2.2 Segment Length: 2.2  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Turbidity; Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing

Clear Creek into Tradewater River Hopkins County  
 From River Mile 0.0 to 2.7 Segment Length: 2.7  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Organic Enrichment (Sewage) Biological Indicators  
 Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2007.

Clear Creek into Tradewater River Hopkins County  
 From River Mile 19.1 to 25.5 Segment Length: 6.4  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Organic Enrichment (Sewage) Biological Indicators  
 Suspected Sources: Channelization; Surface Mining; Source Unknown; Introduction of Non-native Organisms (Accidental or Intentional)

See TMDLs Planned for Development During 2007.

Clear Creek into Tradewater River Hopkins County  
 From River Mile 25.5 to 26.5 Segment Length: 1.0  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Sanitary Sewer Overflows (Collection System Failures)

See TMDLs Planned for Development During 2007.

**Green-Tradewater Basin Unit  
Tradewater Basin  
Streams**

Copper Creek into Richland Creek Hopkins County  
From River Mile 0.0 to 1.1 Segment Length: 1.1  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
(Nonsupport), Secondary Contact Recreation (Nonsupport)  
Pollutant(s): Iron; Total Dissolved Solids; Zinc; pH  
Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2006.

Copperas Creek into Cany Creek Hopkins County  
From River Mile 0.0 to 3.1 Segment Length: 3.1  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
(Nonsupport), Secondary Contact Recreation (Nonsupport)  
Pollutant(s): Cadmium; Iron; Nickel; Total Dissolved Solids; Zinc; pH  
Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2006.

Craborchard Creek into Tradewater River Webster County  
From River Mile 1.4 to 8.8 Segment Length: 7.4  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

Craborchard Creek into Tradewater River Webster County  
From River Mile 13.2 to 15.3 Segment Length: 2.1  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
Indicators  
Suspected Sources: Channelization; Loss of Riparian Habitat; Non-Irrigated Crop  
Production

Cypress Creek into Tradewater River Union County  
From River Mile 0.0 to 2.3 Segment Length: 3.0  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Source Unknown

**Green-Tradewater Basin Unit  
Tradewater Basin  
Streams**

Hurricane Creek into Tradewater River Hopkins County  
From River Mile 0.7 to 2.2 Segment Length: 1.5  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
(Nonsupport), Secondary Contact Recreation (Nonsupport)  
Pollutant(s): Iron; Total Dissolved Solids; Zinc; pH  
Suspected Sources: Source Unknown

See TMDLs Planned for Development During 2006.

Lambs Creek into Clear Creek Hopkins County  
From River Mile 0.0 to 3.5 Segment Length: 3.5  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids;  
Nutrient/Eutrophication Biological Indicators  
Suspected Sources: Channelization; Loss of Riparian Habitat; Surface Mining;  
Source Unknown

See TMDLs Planned for Development During 2007.

Lick Creek into Clear Creek Hopkins County  
From River Mile 0.0 to 12.1 Segment Length: 12.1  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Surface Mining

See TMDLs Planned for Development During 2007.

Lynn Fork into Craborchard Creek Webster County  
From River Mile 0.0 to 2.4 Segment Length: 2.4  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Channelization; Loss of Riparian Habitat; Non-Irrigated Crop  
Production

Pigeonroost Creek into Tradewater River Crittenden County  
From River Mile 0.9 to 3.9 Segment Length: 3.0  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
Indicators  
Suspected Sources: Agriculture



**Green-Tradewater Basin Unit  
Tradewater Basin  
Streams**

Pond Creek into Clear Creek Hopkins County  
From River Mile 0.0 to 5.5 Segment Length: 5.5  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Turbidity  
Suspected Sources: Channelization; Loss of Riparian Habitat; Non-Irrigated Crop  
Production; Surface Mining

See TMDLs Planned for Development During 2007.

Richland Creek into Clear Creek Hopkins County  
From River Mile 0.0 to 4.4 Segment Length: 4.4  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Channelization; Loss of Riparian Habitat; Managed Pasture  
Grazing

See TMDLs Planned for Development During 2007.

Tradewater River into Ohio River Union County  
From River Mile 0.0 to 16.7 Segment Length: 16.7  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Agriculture

Tradewater River into Ohio River Hopkins County  
From River Mile 63.1 to 93.9 Segment Length: 30.8  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Surface Mining

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 63.0 to 92.2. Based on NHD river miles, the river miles have been more accurately determined as 63.1 to 93.9.

Tyson Branch into Tradewater River Caldwell County  
From River Mile 0.0 to 2.5 Segment Length: 2.5  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Habitat Modification - Other Than Hydromodification

**Green-Tradewater Basin Unit**  
**Tradewater Basin**  
**Streams**

UT to Clear Creek into Clear Creek Segment 0.0 to 2.2 Hopkins County  
 From River Mile 0.0 to 2.2 Segment Length: 2.2  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: Package Plant or Other Permitted Small Flows Discharges;  
 Sanitary Sewer Overflows (Collection System Failures)

See TMDLs Planned for Development During 2007.

UT to Slover Creek into Slover Creek Webster County  
 From River Mile 0.2 to 1.2 Segment Length: 1.0  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
 Suspected Sources: Channelization; Surface Mining; Agriculture

Ward Creek into Flynn Fork Caldwell County  
 From River Mile 4.9 to 10.1 Segment Length: 5.2  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Habitat Modification - Other Than Hydromodification

Weirs Creek into Clear Creek Hopkins County  
 From River Mile 0.0 to 5.0 Segment Length: 5.0  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Turbidity; Nutrient/Eutrophication  
 Biological Indicators  
 Suspected Sources: Channelization; Loss of Riparian Habitat; Non-Irrigated Crop  
 Production

See TMDLs Planned for Development During 2007.

Wolf Creek into Tradewater River Crittenden County  
 From River Mile 0.0 to 1.2 Segment Length: 1.2  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Impairment Unknown  
 Suspected Sources: Loss of Riparian Habitat; Non-Irrigated Crop Production;  
 Source Unknown

**Green-Tradewater Basin Unit  
Tradewater Basin  
Lakes**

**11.6. Tradewater River Basin Lakes**

Lake Peewee

Hopkins County

Acres: 360

Impaired Use(s): Drinking Water (Partial Support)

Pollutant(s): Nutrient/Eutrophication Biological Indicators

Suspected Sources: Agriculture

**Big Sandy-Little Sandy-Tygarts Basin Unit  
Big Sandy River Basin  
Streams**

**Chapter 12. Big Sandy-Little Sandy-Tygarts Basin Unit 303(d) List**

**12.1 Big Sandy River Basin Streams**

Arkansas Creek into Beaver Creek Floyd County  
 From River Mile 0.0 to 3.6 Segment Length: 3.6  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids;  
 Organic Enrichment (Sewage) Biological Indicators;  
 Phosphorus (Total)  
 Suspected Sources: On-site Treatment Systems (Septic Systems and Similar  
 Decentralized Systems); Post-Development Erosion and  
 Sedimentation; Surface Mining; Habitat Modification - Other  
 Than Hydromodification; Unspecified Urban Stormwater

Arnold Fork into Right Fork Beaver Creek Knott County  
 From River Mile 0.0 to 2.6 Segment Length: 2.6  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids  
 Suspected Sources: Petroleum/Natural Gas Production Activities (Permitted);  
 Post-Development Erosion and Sedimentation; Subsurface  
 (Hardrock) Mining; Habitat Modification - Other Than  
 Hydromodification; Unspecified Urban Stormwater

See TMDLs Planned for Development During 2007.

Barnetts Creek into Paint Creek Johnson County  
 From River Mile 0.0 to 1.6 Segment Length: 1.6  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Subsurface (Hardrock) Mining; Surface Mining

Big Sandy River of Ohio River Lawrence County  
 From River Mile 0.0 to 27.1 Segment Length: 27.1  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Resource Extraction

**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Big Sandy River Basin**  
**Streams**

Bear Creek into Big Sandy River Lawrence County  
 From River Mile 0.0 to 1.9 Segment Length: 1.9  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Pathogens; Organic Enrichment  
 (Sewage) Biological Indicators  
 Suspected Sources: Animal Feeding Operations (NPS); On-site Treatment Systems  
 (Septic Systems and Similar Decentralized Systems);  
 Habitat Modification - Other Than Hydromodification

Beaver Creek into Levisa Fork Floyd County  
 From River Mile 0.0 to 7.1 Segment Length: 7.1  
 Impaired Use(s): Aquatic Life ( Partial Support), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Pathogens  
 Suspected Sources: On-site Treatment Systems (Septic Systems and Similar  
 Decentralized Systems); Surface Mining

Big Creek into Tug Fork Pike County  
 From River Mile 0.0 to 1.9 Segment Length: 1.9  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: On-site Treatment Systems (Septic Systems and Similar  
 Decentralized Systems)

Big Creek into Tug Fork Pike County  
 From River Mile 7.3 to 10.7 Segment Length: 3.4  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Organic  
 Enrichment (Sewage) Biological Indicators  
 Suspected Sources: Loss of Riparian Habitat; On-site Treatment Systems (Septic  
 Systems and Similar Decentralized Systems); Surface Mining

Big Creek into Tug Fork Pike County  
 From River Mile 10.7 to 15.1 Segment Length: 4.4  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Organic  
 Enrichment (Sewage) Biological Indicators  
 Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related);  
 Loss of Riparian Habitat; On-site Treatment Systems (Septic  
 Systems and Similar Decentralized Systems);  
 Post-Development Erosion and Sedimentation; Surface Mining

**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Big Sandy River Basin**  
**Streams**

Big Mine Creek into Little Paint Creek Magoffin County  
 From River Mile 1.4 to 3.9 Segment Length: 2.5  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Partial Support), Secondary Contact Recreation (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; pH; Organic Enrichment (Sewage)  
 Biological Indicators  
 Suspected Sources: Subsurface (Hardrock) Mining; Surface Mining; Agriculture;  
 Inappropriate Waste Disposal; Silviculture Activities

Big Mine Creek into Little Paint Creek Magoffin County  
 From River Mile 5.8 to 8.4 Segment Length: 2.6  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing

Bill D Branch into Right Fork Beaver Creek Knott County  
 From River Mile 0.0 to 1.1 Segment Length: 1.1  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
 Suspected Sources: Petroleum/Natural Gas Production Activities (Permitted);  
 Post-Development Erosion and Sedimentation; Subsurface  
 (Hardrock) Mining; Habitat Modification - Other Than  
 Hydromodification; Unspecified Urban Stormwater

See TMDLs Planned for Development During 2007.

Blaine Creek into Big Sandy River Lawrence County  
 From River Mile 8.1 to 17.4 Segment Length: 9.3  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological  
 Indicators  
 Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing; On-site  
 Treatment Systems (Septic Systems and Similar  
 Decentralized Systems); Post-Development Erosion and  
 Sedimentation; Streambank Modifications/Destabilization

Blaine Creek into Big Sandy River Lawrence County  
 From River Mile 35.0 to 40.8 Segment Length: 5.8  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: On-site Treatment Systems (Septic Systems and Similar  
 Decentralized Systems)

**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Big Sandy River Basin**  
**Streams**

Blaine Creek into Big Sandy River Lawrence County  
 From River Mile 41.6 to 43.0 Segment Length: 1.4  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Heap-Leach Extraction Mining

Blaine Creek into Big Sandy River Lawrence County  
 From River Mile 44.0 to 48.4 Segment Length: 4.4  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
 (Nonsupport), Secondary Contact Recreation (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; pH; Organic Enrichment (Sewage)  
 Biological Indicators  
 Suspected Sources: Subsurface (Hardrock) Mining; Surface Mining; Agriculture;  
 Inappropriate Waste Disposal; Silviculture Activities

Brushy Fork into Johns Creek Pike County  
 From River Mile 0.0 to 10.0 Segment Length: 10.0  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids;  
 Nutrient/Eutrophication Biological Indicators  
 Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing; Surface  
 Mining; Source Unknown

KDOW awarded \$134,308 in federal Section 319(h) Grant funds (FFY1997) to the Big Sandy RC&D, Inc. to significantly reduce the number of critically eroding sites through BMP demonstrations, education, planning and training. Johns Creek is one of five subwatersheds targeted by the RC&D for erosion control.

Buck Branch into Beaver Creek Floyd County  
 From River Mile 0.0 to 2.8 Segment Length: 2.8  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Organic Enrichment  
 (Sewage) Biological Indicators  
 Suspected Sources: Heap-Leach Extraction Mining; On-site Treatment Systems  
 (Septic Systems and Similar Decentralized Systems);  
 Post-Development Erosion and Sedimentation; Habitat  
 Modification - Other Than Hydromodification; Unspecified Urban  
 Stormwater

Buffalo Creek into Johns Creek Floyd County  
 From River Mile 0.0 to 1.8 Segment Length: 1.8  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Subsurface (Hardrock) Mining; Surface Mining

**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Big Sandy River Basin**  
**Streams**

Caleb Fork into Left Fork Beaver Creek Floyd County  
 From River Mile 0.0 to 1.2 Segment Length: 1.2  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Ammonia (Un-ionized); Sedimentation/Siltation; Sulfates; Total Dissolved Solids; Organic Enrichment (Sewage) Biological Indicators; Phosphorus (Total)  
 Suspected Sources: On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Petroleum/Natural Gas Production Activities (Permitted); Post-Development Erosion and Sedimentation; Subsurface (Hardrock) Mining; Habitat Modification - Other Than Hydromodification; Unspecified Urban Stormwater

Clear Creek into Left Fork Beaver Creek Floyd County  
 From River Mile 0.0 to 4.9 Segment Length: 4.9  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids  
 Suspected Sources: Petroleum/Natural Gas Production Activities (Permitted); Post-Development Erosion and Sedimentation; Subsurface (Hardrock) Mining; Habitat Modification - Other Than Hydromodification; Unspecified Urban Stormwater

Coldwater Fork into Middle Fork Rockcastle Creek Martin County  
 From River Mile 2.1 to 8.8 Segment Length: 6.7  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids  
 Suspected Sources: Channelization; Dredging (e.g., for Navigation Channels); Highway/Road/Bridge Runoff (Non-Construction Related); Impacts from Abandoned Mine Lands (Inactive); Loss of Riparian Habitat; Other Spill Related Impacts; Surface Mining; Sediment Resuspension (Contaminated Sediment); Unspecified Urban Stormwater

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**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Big Sandy River Basin**  
**Streams**

Dry Creek into Right Fork Beaver Creek Knott County  
 From River Mile 0.0 to 4.0 Segment Length: 4.0  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids  
 Suspected Sources: Managed Pasture Grazing; Petroleum/Natural Gas Production Activities (Permitted); Post-Development Erosion and Sedimentation; Subsurface (Hardrock) Mining; Habitat Modification - Other Than Hydromodification  
 See TMDLs Planned for Development During 2007.

Elkhorn Creek into Russell Fork Pike County  
 From River Mile 0.0 to 10.6 Segment Length: 10.6  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Pathogens  
 Suspected Sources: On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Surface Mining

See TMDLs Planned for Development During 2007.

Frasure Branch into Left Fork Beaver Creek Floyd County  
 From River Mile 0.0 to 5.2 Segment Length: 5.2  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids; Organic Enrichment (Sewage) Biological Indicators  
 Suspected Sources: On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Petroleum/Natural Gas Production Activities (Permitted); Post-Development Erosion and Sedimentation; Subsurface (Hardrock) Mining; Habitat Modification - Other Than Hydromodification; Unspecified Urban Stormwater

Georges Creek into Levisa Fork, Big Sandy River Lawrence County  
 From River Mile 0.0 to 0.9 Segment Length: 0.9  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Subsurface (Hardrock) Mining; Surface Mining



**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Big Sandy River Basin**  
**Streams**

Ice Dam Creek into Big Sandy River Boyd County  
 From River Mile 0.4 to 2.4 Segment Length: 2.0  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids;  
 Nitrogen (Total); Impairment Unknown  
 Suspected Sources: Industrial Point Source Discharge; On-site Treatment Systems  
 (Septic Systems and Similar Decentralized Systems);  
 Post-Development Erosion and Sedimentation; Habitat  
 Modification - Other Than Hydromodification; Unspecified Urban  
 Stormwater

Indian Creek into Long Fork Pike County  
 From River Mile 0.0 to 3.5 Segment Length: 3.5  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
 Suspected Sources: Channelization; Highway/Road/Bridge Runoff  
 (Non-Construction Related); Loss of Riparian Habitat;  
 Post-Development Erosion and Sedimentation; Streambank  
 Modifications/Destabilization; Surface Mining

Island Creek into Levisa Fork, Big Sandy River Pike County  
 From River Mile 0.0 to 1.7 Segment Length: 1.7  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
 Suspected Sources: Surface Mining

Jacks Branch into Left Fork Beaver Creek Floyd County  
 From River Mile 0.0 to 4.4 Segment Length: 4.4  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Impairment Unknown  
 Suspected Sources: Petroleum/Natural Gas Production Activities (Permitted);  
 Post-Development Erosion and Sedimentation; Subsurface  
 (Hardrock) Mining; Habitat Modification - Other Than  
 Hydromodification

Jennys Creek into Paint Creek Johnson County  
 From River Mile 5.3 to 10.8 Segment Length: 5.5  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Site Clearance (Land Development or Redevelopment);  
 Subsurface (Hardrock) Mining; Surface Mining

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**Big Sandy-Little Sandy-Tygarts Basin Unit  
Big Sandy River Basin  
Streams**

<u>Johns Branch into Right Fork Beaver Creek</u>	Floyd County
From River Mile 0.0 to 1.6	Segment Length: 1.6
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Sulfates
Suspected Sources:	Post-Development Erosion and Sedimentation; Subsurface (Hardrock) Mining; Habitat Modification - Other Than Hydromodification

See TMDLs Planned for Development During 2007.

<u>Johns Creek into Levisa Fork, Big Sandy River</u>	Floyd County
From River Mile 0.0 to 5.8	Segment Length: 5.8
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Total Dissolved Solids
Suspected Sources:	Impacts from Hydrostructure Flow Regulation/Modification; Subsurface (Hardrock) Mining; Surface Mining; Upstream Impoundments (e.g., PI-5 Irrigated Crop Production NRCS Structures)

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<u>Johns Creek into Levisa Fork, Big Sandy River</u>	Pike County
From River Mile 24.0 to 30.7	Segment Length: 6.7
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Pathogens
Suspected Sources:	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Surface Mining

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<u>Johns Creek into Levisa Fork, Big Sandy River</u>	Pike County
From River Mile 34.4 to 42.5	Segment Length: 8.1
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Total Dissolved Solids
Suspected Sources:	Loss of Riparian Habitat; Post-Development Erosion and Sedimentation; Surface Mining

**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Big Sandy River Basin**  
**Streams**

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<u>Jones Fork into Right Fork Beaver Creek</u> From River Mile 0.0 to 9.4	Knott County Segment Length: 9.4
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids	
Suspected Sources: Petroleum/Natural Gas Production Activities (Permitted); Post-Development Erosion and Sedimentation; Subsurface (Hardrock) Mining; Habitat Modification - Other Than Hydromodification	

See TMDLs Planned for Development During 2007.

<u>Knox Creek into Tug Fork</u> From River Mile 0.0 to 7.6	Pike County Segment Length: 7.6
Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Partial Support)	
Pollutant(s): Sedimentation/Siltation; Temperature, Water; Pathogens	
Suspected Sources: Dredging (e.g., for Navigation Channels); On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Source Unknown; Habitat Modification - Other Than Hydromodification	

<u>Left Fork Beaver Creek into Beaver Creek</u> From River Mile 0.0 to 11.4	Knott County Segment Length: 11.7
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids	
Suspected Sources: Loss of Riparian Habitat; Petroleum/Natural Gas Production Activities (Permitted); Post-Development Erosion and Sedimentation; Subsurface (Hardrock) Mining; Surface Mining; Crop Production (Crop Land or Dry Land); Unspecified Urban Stormwater	

<u>Left Fork Beaver Creek into Beaver Creek</u> From River Mile 13.6 to 18.7	Knott County Segment Length: 5.1
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Organic Enrichment (Sewage) Biological Indicators	
Suspected Sources: Loss of Riparian Habitat; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Post-Development Erosion and Sedimentation; Surface Mining	

**Big Sandy-Little Sandy-Tygarts Basin Unit  
Big Sandy River Basin  
Streams**

Left Fork Blaine Creek into Blaine Creek Lawrence County  
From River Mile 0.0 to 2.1 Segment Length: 2.1  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
(Nonsupport), Secondary Contact Recreation (Nonsupport)  
Pollutant(s): Sedimentation/Siltation; pH; Organic Enrichment (Sewage)  
Biological Indicators  
Suspected Sources: Subsurface (Hardrock) Mining; Surface Mining; Agriculture;  
Inappropriate Waste Disposal; Silviculture Activities

Left Fork Middle Creek into Middle Creek Levisa Fork Floyd County  
From River Mile 0.0 to 8.4 Segment Length: 8.4  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation  
(Nonsupport), Secondary Contact Recreation (Nonsupport)  
Pollutant(s): Sulfates; Total Dissolved Solids; pH; Impairment Unknown  
Suspected Sources: Surface Mining

Levisa Fork into Big Sandy River Lawrence County  
From River Mile 5.8 to 15.3 Segment Length: 9.5  
Impaired Use(s): Aquatic Life (Nonsupport); Fish consumption (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Methyl Mercury;  
PCBs  
Suspected Sources: Surface Mining; Unknown

Levisa Fork into Big Sandy River Johnson County  
From River Mile 65.2 to 99.9 Segment Length: 34.7  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: On-site Treatment Systems (Septic Systems and Similar  
Decentralized Systems); Urban Runoff/Storm Sewers

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 65.0 to 97.3. Based on NHD river miles, the river miles have been more accurately determined as 65.2 to 99.9.

Levisa Fork into Big Sandy River Pike County  
From River Mile 116.0 to 124.4 Segment Length: 8.4  
Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Partial  
Support)  
Pollutant(s): Sedimentation/Siltation; Pathogens  
Suspected Sources: On-site Treatment Systems (Septic Systems and Similar  
Decentralized Systems); Surface Mining; Sewage  
Discharges in Unsewered Areas

The river miles for this segment have changed from the 2004 listing. The 2004 list had the river miles as 116.2 to 124.6. Based on NHD river miles, the river miles have been more accurately determined as 116.0 to 124.4.

**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Big Sandy River Basin**  
**Streams**

Little Paint Creek into Paint Creek Johnson County  
 From River Mile 3.2 to 6.4 Segment Length: 3.2  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Loss of Riparian Habitat; Post-Development Erosion and Sedimentation

Little Paint Creek into Paint Creek Johnson County  
 From River Mile 6.4 to 11.6 Segment Length: 5.2  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport), Secondary Contact Recreation (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; pH; Organic Enrichment (Sewage) Biological Indicators  
 Suspected Sources: Subsurface (Hardrock) Mining; Surface Mining; Agriculture; Inappropriate Waste Disposal; Silviculture Activities

Long Branch into Johns Creek Floyd County  
 From River Mile 0.0 to 2.0 Segment Length: 2.0  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Temperature, Water; Total Dissolved Solids  
 Suspected Sources: Channelization; Loss of Riparian Habitat; Surface Mining

Lower Laurel Fork into Blaine Creek Lawrence County  
 From River Mile 0.0 to 7.9 Segment Length: 7.9  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Nutrient/Eutrophication Biological Indicators; Impairment Unknown  
 Suspected Sources: Heap-Leach Extraction Mining; Landfills; Source Unknown; Silviculture Activities; Unspecified Urban Stormwater

Marrowbone Creek into Russell Fork Pike County  
 From River Mile 1.4 to 11.3 Segment Length: 9.9  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
 Suspected Sources: Channelization; Highway/Road/Bridge Runoff (Non-Construction Related); Loss of Riparian Habitat; Post-Development Erosion and Sedimentation; Surface Mining

Middle Creek into Levisa Fork Floyd County  
 From River Mile 0.0 to 4.5 Segment Length: 4.5  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Impairment Unknown  
 Suspected Sources: Subsurface (Hardrock) Mining; Surface Mining; Source Unknown

**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Big Sandy River Basin**  
**Streams**

<u>Middle Fork Rockcastle Creek into Rockcastle Creek</u>	Martin County
From River Mile 0.0 to 16.8	Segment Length: 16.8
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation; Sulfates; Total Dissolved Solids
Suspected Sources:	Channelization; Dredging (e.g., for Navigation Channels); Highway/Road/Bridge Runoff (Non-Construction Related); Loss of Riparian Habitat; Silviculture Harvesting; Surface Mining; Unspecified Urban Stormwater
<u>Miller Creek into Levisa Fork, Big Sandy River</u>	Johnson County
From River Mile 0.0 to 6.4	Segment Length: 6.4
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Total Dissolved Solids; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Loss of Riparian Habitat; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Post-Development Erosion and Sedimentation; Surface Mining
<u>Mud Creek into Levisa Fk Big Sandy River</u>	Floyd County
From River Mile 0.0 to 2.7	Segment Length: 2.7
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Turbidity
Suspected Sources:	Loss of Riparian Habitat; Streambank Modifications/ Destabilization
<u>Nats Creek into Levisa Fork</u>	Lawrence County
From River Mile 0.0 to 3.1	Segment Length: 3.1
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation
Suspected Sources:	Subsurface (Hardrock) Mining; Surface Mining
<u>Open Fork into Paint Creek</u>	Morgan County
From River Mile 6.4 to 11.3	Segment Length: 4.9
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport), Secondary Contact Recreation (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; pH; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Subsurface (Hardrock) Mining; Surface Mining; Agriculture; Inappropriate Waste Disposal; Silviculture Activities



**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Big Sandy River Basin**  
**Streams**

Otter Creek into Left Fork Beaver Creek Floyd County  
 From River Mile 0.0 to 0.5 Segment Length: 0.5  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Ammonia (Un-ionized); Sedimentation/Siltation; Total Dissolved Solids; Organic Enrichment (Sewage) Biological Indicators; Nitrogen (Total); Phosphorus (Total)  
 Suspected Sources: On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Petroleum/Natural Gas Production Activities (Permitted); Post-Development Erosion and Sedimentation; Subsurface (Hardrock) Mining; Habitat Modification - Other Than Hydromodification; Unspecified Urban Stormwater

Paddle Creek into Ice Dam Creek Boyd County  
 From River Mile 0.0 to 1.4 Segment Length: 1.4  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids; Organic Enrichment (Sewage) Biological Indicators  
 Suspected Sources: Industrial Point Source Discharge; Post-Development Erosion and Sedimentation; Habitat Modification - Other Than Hydromodification; Unspecified Urban Stormwater

Paint Creek into Levisa Fork, Big Sandy River Johnson County  
 From River Mile 0.0 to 7.9 Segment Length: 7.9  
 Impaired Use(s): Aquatic Life (Nonsupport), Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Temperature, Water; Pathogens; Organic Enrichment (Sewage) Biological Indicators  
 Suspected Sources: On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Post-Development Erosion and Sedimentation; Upstream Impoundments (e.g., PI-5 Irrigated Crop Production NRCS Structures)

Panther Fork into Wolf Creek Martin County  
 From River Mile 0.0 to 3.7 Segment Length: 3.7  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids  
 Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related); Surface Mining

Peter Creek into Tug Fork Pike County  
 From River Mile 0.0 to 5.8 Segment Length: 5.8  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Subsurface (Hardrock) Mining; Surface Mining

**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Big Sandy River Basin**  
**Streams**

Pigeonroost Fork into Wolf Creek Martin County  
 From River Mile 0.0 to 1.3 Segment Length: 1.3  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Subsurface (Hardrock) Mining; Surface Mining

Pond Creek into Tug Fork Pike County  
 From River Mile 3.4 to 9.7 Segment Length: 6.3  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Organic  
 Enrichment (Sewage) Biological Indicators  
 Suspected Sources: Loss of Riparian Habitat; On-site Treatment Systems (Septic  
 Systems and Similar Decentralized Systems);  
 Post-Development Erosion and Sedimentation; Surface Mining

Puncheon Branch into Right Fork Beaver Creek Knott County  
 From River Mile 0.0 to 3.6 Segment Length: 3.6  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Total Dissolved Solids; Organic Enrichment (Sewage)  
 Biological Indicators  
 Suspected Sources: On-site Treatment Systems (Septic Systems and Similar  
 Decentralized Systems); Petroleum/Natural Gas Production  
 Activities (Permitted); Subsurface (Hardrock) Mining; Habitat  
 Modification - Other Than Hydromodification; Unspecified  
 Urban Stormwater

See TMDLs Planned for Development During 2007.

Raccoon Creek into Johns Creek Pike County  
 From River Mile 5.6 to 7.4 Segment Length: 1.8  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
 Suspected Sources: Loss of Riparian Habitat; Post-Development Erosion and  
 Sedimentation; Surface Mining

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**Big Sandy-Little Sandy-Tygarts Basin Unit  
Big Sandy River Basin  
Streams**

<u>Right Fork Beaver Creek into Beaver Creek</u>	Floyd County
From River Mile 0.0 to 17.4	Segment Length: 17.4
Impaired Use(s):	Aquatic Life (Partial Support), Primary Contact Recreation (Nonsupport), Secondary Contact Recreation (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Sulfates; Total Dissolved Solids; Pathogens; pH; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Acid Mine Drainage; Channelization; Loss of Riparian Habitat; Managed Pasture Grazing; Petroleum/Natural Gas Production Activities (Permitted); Post-Development Erosion and Sedimentation; Subsurface (Hardrock) Mining; Surface Mining; Inappropriate Waste Disposal; Silviculture Activities

See TMDLs Planned for Development During 2007.

<u>Right Fork Beaver Creek into Beaver Creek</u>	Knott County
From River Mile 30.3 to 33.4	Segment Length: 2.9
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation; Total Dissolved Solids; Organic Enrichment (Sewage) Biological Indicators
Suspected Sources:	Loss of Riparian Habitat; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Post-Development Erosion and Sedimentation; Surface Mining

See TMDLs Planned for Development During 2007.

<u>Rock Fork into Right Fork Beaver Creek</u>	Floyd County
From River Mile 0.0 to 7.0	Segment Length: 7.0
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation; Sulfates; Total Dissolved Solids
Suspected Sources:	Petroleum/Natural Gas Production Activities (Permitted); Post-Development Erosion and Sedimentation; Subsurface (Hardrock) Mining; Habitat Modification - Other Than Hydromodification; Unspecified Urban Stormwater

See TMDLs Planned for Development During 2007.

<u>Rockcastle Creek into Tug Fork</u>	Lawrence County
From River Mile 0.0 to 3.7	Segment Length: 3.7
Impaired Use(s):	Aquatic Life (Partial Support)
Pollutant(s):	Sedimentation/Siltation; Total Dissolved Solids
Suspected Sources:	Post-Development Erosion and Sedimentation; Surface Mining

**Big Sandy-Little Sandy-Tygarts Basin Unit  
Big Sandy River Basin  
Streams**

Rockcastle Creek into Tug Fork Martin County  
From River Mile 3.7 to 13.3 Segment Length: 9.55  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids  
Suspected Sources: Channelization; Dredging (e.g., for Navigation Channels);  
Highway/Road/Bridge Runoff (Non-Construction Related);  
Surface Mining; Sediment Resuspension (Contaminated  
Sediment); Unspecified Urban Stormwater

Rockcastle Creek into Tug Fork Martin County  
From River Mile 13.3 to 15.3 Segment Length: 4.2  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Subsurface (Hardrock) Mining; Surface Mining

Rockhouse Fork into Rockcastle Creek Martin County  
From River Mile 0.0 to 6.3 Segment Length: 6.3  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
Suspected Sources: Loss of Riparian Habitat; Post-Development Erosion and  
Sedimentation; Surface Mining

Russell Fork into Levisa Fork, Big Sandy River Pike County  
From River Mile 0.0 to 4.2 Segment Length: 4.2  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: On-site Treatment Systems (Septic Systems and Similar  
Decentralized Systems)

Salisbury Branch into Right Fork Beaver Creek Knott County  
From River Mile 0.0 to 1.8 Segment Length: 1.8  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sulfates; Total Dissolved Solids; Nutrient/Eutrophication  
Biological Indicators  
Suspected Sources: Petroleum/Natural Gas Production Activities (Permitted);  
Subsurface (Hardrock) Mining; Habitat Modification - Other  
Than Hydromodification; Unspecified Urban Stormwater

See TMDLs Planned for Development During 2007.

**Big Sandy-Little Sandy-Tygarts Basin Unit  
Big Sandy River Basin  
Streams**

Salt Lick Creek into Right Fork Beaver Creek                      Floyd County  
From River Mile 0.0 to 6.8    Segment Length: 6.8  
Impaired Use(s):      Aquatic Life (Partial Support)  
Pollutant(s):           Sedimentation/Siltation; Sulfates; Impairment Unknown  
Suspected Sources:   Petroleum/Natural Gas Production Activities (Permitted);  
Post-Development Erosion and Sedimentation; Subsurface  
(Hardrock) Mining; Habitat Modification - Other Than  
Hydromodification

See TMDLs Planned for Development During 2007.

Shelby Creek into Levisa Fork, Big Sandy River                      Pike County  
From River Mile 0.0 to 6.1    Segment Length: 6.1  
Impaired Use(s):      Aquatic Life (Partial Support)  
Pollutant(s):           Sedimentation/Siltation; Total Dissolved Solids  
Suspected Sources:   Surface Mining

Shelby Creek into Levisa Fork, Big Sandy River                      Pike County  
From River Mile 6.1 to 13.3    Segment Length: 7.2  
Impaired Use(s):      Aquatic Life (Partial Support)  
Pollutant(s):           Sedimentation/Siltation; Organic Enrichment (Sewage)  
Biological Indicators  
Suspected Sources:   Loss of Riparian Habitat; Septage Disposal

Simpson Branch into Left Fork Beaver Creek                      Floyd County  
From River Mile 0.0 to 1.8    Segment Length: 1.8  
Impaired Use(s):      Aquatic Life (Partial Support)  
Pollutant(s):           Sedimentation/Siltation; Total Dissolved Solids; Organic  
Enrichment (Sewage) Biological Indicators  
Suspected Sources:   On-site Treatment Systems (Septic Systems and Similar  
Decentralized Systems); Petroleum/Natural Gas Production  
Activities (Permitted); Post-Development Erosion and  
Sedimentation; Subsurface (Hardrock) Mining; Habitat  
Modification - Other Than Hydromodification; Unspecified  
Urban Stormwater

Sizemore Branch into Left Fork Beaver Creek                      Floyd County  
From River Mile 0.0 to 2.0    Segment Length: 2.0  
Impaired Use(s):      Aquatic Life (Nonsupport)  
Pollutant(s):           Sulfates; Total Dissolved Solids  
Suspected Sources:   Petroleum/Natural Gas Production Activities (Permitted);  
Subsurface (Hardrock) Mining; Habitat Modification - Other  
Than Hydromodification; Unspecified Urban Stormwater



**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Big Sandy River Basin**  
**Streams**

Tug Fork into Big Sandy River Martin County  
 From River Mile 71.9 to 77.7 Segment Length: 5.8  
 Impaired Use(s): Fish Consumption (Partial Support)  
 Pollutant(s): Polychlorinated Biphenyls  
 Suspected Sources: Source Unknown

Tug Fork into Big Sandy River Pike County  
 From River Mile 78.3 to 84.4 Segment Length: 6.1  
 Impaired Use(s): Primary Contact Recreation (Nonsupport)  
 Pollutant(s): Pathogens  
 Suspected Sources: On-site Treatment Systems (Septic Systems and Similar  
 Decentralized Systems)

Turkey Creek into Right Fork Beaver Creek Floyd County  
 From River Mile 0.0 to 5.9 Segment Length: 5.9  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Impairment Unknown  
 Suspected Sources: Managed Pasture Grazing; Petroleum/Natural Gas Production  
 Activities (Permitted); Post-Development Erosion and  
 Sedimentation; Site Clearance (Land Development or  
 Redevelopment); Subsurface (Hardrock) Mining; Surface  
 Mining; Habitat Modification - Other Than Hydromodification

See TMDLs Planned for Development During 2007.

Upper Pidgeon Branch into Elkhorn Creek Pike County  
 From River Mile 0.0 to 2.1 Segment Length: 2.1  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Nitrogen (Total)  
 Suspected Sources: Surface Mining; Source Unknown

See TMDLs Planned for Development During 2007.

Wilson Creek into Right Fork Beaver Creek Floyd County  
 From River Mile 0.0 to 2.9 Segment Length: 2.9  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Organic Enrichment  
 (Sewage) Biological Indicators  
 Suspected Sources: Managed Pasture Grazing; On-site Treatment Systems (Septic  
 Systems and Similar Decentralized Systems);  
 Post-Development Erosion and Sedimentation; Subsurface  
 (Hardrock) Mining; Surface Mining; Habitat Modification -  
 Other Than Hydromodification; Unspecified Urban Stormwater

See TMDLs Planned for Development During 2007.

**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Big Sandy River Basin**  
**Streams**

Wolf Creek into Tug Fork Martin County  
 From River Mile 0.0 to 6.5 Segment Length: 6.5  
 Impaired Use(s): Aquatic Life (Partial Support), Primary Contact Recreation  
 (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids  
 Suspected Sources: Dredging (e.g., for Navigation Channels);  
 Highway/Road/Bridge Runoff (Non-Construction Related);  
 Surface Mining; Sediment Resuspension (Contaminated  
 Sediment); Unspecified Urban Stormwater

Wolf Creek into Tug Fork Martin County  
 From River Mile 6.5 to 17.6 Segment Length: 11.1  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids  
 Suspected Sources: Dredging (e.g., for Navigation Channels);  
 Highway/Road/Bridge Runoff (Non-Construction Related);  
 Surface Mining; Sediment Resuspension (Contaminated  
 Sediment); Unspecified Urban Stormwater

Wolf Creek into Tug Fork Martin County  
 From River Mile 17.6 to 20.5 Segment Length: 2.9  
 Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids  
 Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related);  
 Surface Mining

Wolfpen Branch into Grassy Creek Pike County  
 From River Mile 0.0 to 1.7 Segment Length: 1.7  
 Impaired Use(s): Aquatic Life (Nonsupport)  
 Pollutant(s): Sedimentation/Siltation; Temperature, Water; Total Dissolved  
 Solids  
 Suspected Sources: Channelization; Loss of Riparian Habitat; Silviculture  
 Harvesting; Surface Mining



**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Big Sandy River Basin**  
**Lakes**

**12.2 Big Sandy River Basin Lakes**

Dewey Lake

Floyd County  
Acres: 1100

Impaired Use(s): Secondary Contact Recreation (Partial Support)  
Pollutant(s): Total Suspended Solids (TSS)  
Suspected Sources: Surface Mining

Paintsville Reservoir

Johnson County  
Acres: 1139

Impaired Use(s): Fish Consumption (Partial Support)  
Pollutant(s): Methylmercury  
Suspected Sources: Source Unknown

**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Little Sandy River Basin**  
**Streams**

**12.3 Little Sandy River Basin Streams**

<p><u>Allcorn Creek into Little Sandy River</u>            From River Mile 1.4 to 3.9            Impaired Use(s): Aquatic Life (Nonsupport)            Pollutant(s): Sedimentation/Siltation; Temperature, Water            Suspected Sources: Loss of Riparian Habitat; Livestock (Grazing or Feeding Operations)</p>	<p>Greenup County            Segment Length: 2.5</p>
<p><u>Barrett Creek into Little Sandy River</u>            From River Mile 0.0 to 7.2            Impaired Use(s): Aquatic Life (Partial Support)            Pollutant(s): Sedimentation/Siltation            Suspected Sources: Highway/Road/Bridge Runoff (Non-Construction Related); Site Clearance (Land Development or Redevelopment)</p>	<p>Carter County            Segment Length: 7.2</p>
<p><u>Cane Creek into Little Sandy River</u>            From River Mile 0.0 to 4.1            Impaired Use(s): Aquatic Life (Partial Support)            Pollutant(s): Impairment Unknown            Suspected Sources: Source Unknown</p>	<p>Greenup County            Segment Length: 4.1</p>
<p><u>Dry Fork into Little Fork Little Sandy River</u>            From River Mile 1.2 to 4.5            Impaired Use(s): Aquatic Life (Partial Support)            Pollutant(s): Sedimentation/Siltation            Suspected Sources: Silviculture Harvesting</p>	<p>Lawrence County            Segment Length: 3.3</p>
<p><u>East Fork Little Sandy River into Little Sandy River</u>            From River Mile 24.9 to 26.4            Impaired Use(s): Primary Contact Recreation (Nonsupport)            Pollutant(s): Pathogens            Suspected Sources: Loss of Riparian Habitat</p>	<p>Boyd County            Segment Length: 1.5</p>
<p><u>East Fork Little Sandy River into Little Sandy River</u>            From River Mile 27.1 to 30.0            Impaired Use(s): Aquatic Life (Partial Support)            Pollutant(s): Sedimentation/Siltation            Suspected Sources: Loss of Riparian Habitat; Surface Mining</p>	<p>Boyd County            Segment Length: 2.9</p>

**Big Sandy-Little Sandy-Tygarts Basin Unit  
Little Sandy River Basin  
Streams**

<u>Ellingtons Bear Creek into East Fork Little Sandy River</u> From River Mile 0.0 to 1.5	Boyd County Segment Length: 1.5
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation; Temperature, Water; Nutrient/Eutrophication Biological Indicators	
Suspected Sources: Loss of Riparian Habitat; Source Unknown	
<u>Everman Creek into Little Sandy River</u> From River Mile 0.0 to 5.7	Carter County Segment Length: 5.7
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Source Unknown	
<u>Garner Creek into East Fork Little Sandy River</u> From River Mile 0.0 to 1.8	Boyd County Segment Length: 1.8
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation	
Suspected Sources: Managed Pasture Grazing; Silviculture Harvesting	
<u>Left Fork Redwine Creek into Redwine Creek</u> From River Mile 0.0 to 1.2	Elliott County Segment Length: 1.2
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Impairment Unknown	
Suspected Sources: Source Unknown; Livestock (Grazing or Feeding Operations)	
<u>Lick Fork into Newcombe Creek</u> From River Mile 0.0 to 5.2	Elliott County Segment Length: 5.2
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids	
Suspected Sources: Managed Pasture Grazing; Petroleum/Natural Gas Production Activities (Permitted); Post-Development Erosion and Sedimentation; Subsurface (Hardrock) Mining; Habitat Modification - Other Than Hydromodification; Unspecified Urban Stormwater	
<u>Little Fork into Little Sandy River</u> From River Mile 4.8 to 6.0	Carter County Segment Length: 1.2
Impaired Use(s): Aquatic Life (Partial Support)	
Pollutant(s): Sedimentation/Siltation; Temperature, Water	
Suspected Sources: Loss of Riparian Habitat; Livestock (Grazing or Feeding Operations)	

**Big Sandy-Little Sandy-Tygarts Basin Unit  
Little Sandy River Basin  
Streams**

Little Fork into Little Sandy River Carter County  
From River Mile 12.0 to 23.8 Segment Length: 11.8  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat; Surface Mining; Livestock (Grazing or Feeding Operations)

Little Fork into Little Sandy River Elliott County  
From River Mile 23.8 to 27.7 Segment Length: 3.9  
Impaired Use(s): Aquatic Life (Nonsupport)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Channelization; Managed Pasture Grazing; Non-Irrigated Crop Production; Silviculture Harvesting

Little Fork into Little Sandy River Elliott County  
From River Mile 27.7 to 30.5 Segment Length: 2.8  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Temperature, Water  
Suspected Sources: Loss of Riparian Habitat; Livestock (Grazing or Feeding Operations)

Little Sandy River into Ohio River Greenup County  
From River Mile 0.0 to 0.2 Segment Length: 0.2  
Impaired Use(s): Primary Contact Recreation (Nonsupport)  
Pollutant(s): Pathogens  
Suspected Sources: Municipal Point Source Discharges

Little Sandy River into Ohio River Elliott County  
From River Mile 71.8 to 74.7 Segment Length: 2.7  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Habitat Modification - Other Than Hydromodification

Lower Stinson Creek into Little Sandy River Carter County  
From River Mile 0.0 to 1.1 Segment Length: 1.1  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Non-Irrigated Crop Production

Middle Fork into Little Sandy River Elliott County  
From River Mile 5.7 to 7.5 Segment Length: 1.8  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Other Recreational Pollution Sources; Source Unknown

**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Little Sandy River Basin**  
**Streams**

Newcombe Creek into Little Sandy River Elliott County  
 From River Mile 0.0 to 11.9 Segment Length: 11.9

Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Impairment Unknown  
 Suspected Sources: Highways, Roads, Bridges, Infrastructure (New Construction);  
 Impacts from Abandoned Mine Lands (Inactive); Managed  
 Pasture Grazing; Mine Tailings; Petroleum/Natural Gas  
 Production Activities (Permitted); Post-Development Erosion  
 and Sedimentation; Silviculture Harvesting; Subsurface  
 (Hardrock) Mining; Crop Production (Crop Land or Dry  
 Land); Habitat Modification - Other Than Hydromodification;  
 Unspecified Urban Stormwater

Oldtown Creek into Little Sandy River Greenup County  
 From River Mile 0.0 to 1.9 Segment Length: 1.9

Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Oil and Grease; Sedimentation/Siltation; Temperature, Water;  
 Turbidity  
 Suspected Sources: Loss of Riparian Habitat; Source Unknown; Livestock (Grazing  
 or Feeding Operations)

Right Fork Newcombe Creek into Newcombe Creek Elliott County  
 From River Mile 0.0 to 4.2 Segment Length: 4.2

Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Sulfates; Total Dissolved Solids  
 Suspected Sources: Managed Pasture Grazing; Petroleum/Natural Gas Production  
 Activities (Permitted); Subsurface (Hardrock) Mining;  
 Surface Mining; Crop Production (Crop Land or Dry Land);  
 Habitat Modification - Other Than Hydromodification

Rocky Branch into Newcombe Creek Elliott County  
 From River Mile 0.0 to 3.2 Segment Length: 3.2

Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids  
 Suspected Sources: Highways, Roads, Bridges, Infrastructure (New Construction);  
 Petroleum/Natural Gas Production Activities (Permitted);  
 Post-Development Erosion and Sedimentation; Surface Mining;  
 Habitat Modification - Other Than Hydromodification;  
 Unspecified Urban Stormwater

Straight Creek into Little Fork Little Sandy River Carter County  
 From River Mile 0.0 to 3.8 Segment Length: 3.8

Impaired Use(s): Aquatic Life (Partial Support)  
 Pollutant(s): Sedimentation/Siltation  
 Suspected Sources: Non-Irrigated Crop Production; Silviculture Harvesting

**Big Sandy-Little Sandy-Tygarts Basin Unit  
Little Sandy River Basin  
Streams**

<u>Tunnel Branch into Little Sandy River</u> From River Mile 0.0 to 1.7 Impaired Use(s): Aquatic Life (Nonsupport) Pollutant(s): Sedimentation/Siltation; Temperature, Water Suspected Sources: Loss of Riparian Habitat; Post-Development Erosion and Sedimentation	Greenup County Segment Length: 1.7
 <u>UT to East Fork into East Fork Little Sandy River</u> From River Mile 0.0 to 0.3 Impaired Use(s): Aquatic Life (Nonsupport) Pollutant(s): Sedimentation/Siltation; Total Dissolved Solids; Organic Enrichment (Sewage) Biological Indicators Suspected Sources: Channelization; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)	 Greenup County Segment Length: 0.3
 <u>Wells Creek into Little Sandy River</u> From River Mile 0.0 to 3.5 Impaired Use(s): Aquatic Life (Partial Support) Pollutant(s): Sedimentation/Siltation Suspected Sources: Impacts from Abandoned Mine Lands (Inactive); Managed Pasture Grazing; Non-Irrigated Crop Production; Silviculture Harvesting	 Elliott County Segment Length: 3.5
 <u>Williams Creek into East Fork Little Sandy River</u> From River Mile 0.0 to 2.9 Impaired Use(s): Aquatic Life (Partial Support) Pollutant(s): Impairment Unknown Suspected Sources: Streambank Modifications/Destabilization; Source Unknown	 Boyd County Segment Length: 2.9

**Big Sandy-Little Sandy-Tygarts Basin Unit  
Little Sandy River Basin  
Lakes**

**12.4 Little Sandy River Basin Lakes**

Grayson Lake

Carter County  
Acres: 1512

Impaired Use(s): Fish Consumption (Partial Support)  
Pollutant(s): Methylmercury  
Suspected Sources: Source Unknown

**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Ohio River Basin**  
**Streams**

**12.5 Ohio River Basin Streams**

<u>Newberry Branch into Ohio River</u>	Greenup County
From River Mile 0.0 to 2.8	Segment Length: 2.8
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Total Dissolved Solids; Nutrient/Eutrophication Biological Indicators
Suspected Sources:	Channelization; Highway/Road/Bridge Runoff (Non-Construction Related); Non-Irrigated Crop Production
<u>UT to Chinns Branch into Chinns Branch</u>	Greenup County
From River Mile 0.0 to 1.1	Segment Length: 1.1
Impaired Use(s):	Aquatic Life (Nonsupport)
Pollutant(s):	Sedimentation/Siltation; Temperature, Water
Suspected Sources:	Channelization; Loss of Riparian Habitat; Post-Development Erosion and Sedimentation



**Big Sandy-Little Sandy-Tygarts Basin Unit  
Tygarts Creek Basin  
Streams**

**12.6 Tygarts Creek Basin Streams**

Backs Branch into Tygarts Creek Greenup County  
From River Mile 0.0 to 0.9 Segment Length: 0.9  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Loss of Riparian Habitat; Managed Pasture Grazing

Jacobs Fork into Tygarts Creek Carter County  
From River Mile 3.6 to 5.7 Segment Length: 2.1  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Channelization; Dredge Mining; Dredging (e.g., for Navigation Channels); Managed Pasture Grazing

Schultz Creek into Tygarts Creek Greenup County  
From River Mile 4.7 to 10.8 Segment Length: 6.1  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Impairment Unknown  
Suspected Sources: Dredging (e.g., for Navigation Channels); Source Unknown

Smith Creek into Buffalo Creek Carter County  
From River Mile 2.0 to 4.3 Segment Length: 2.3  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation; Temperature, Water  
Suspected Sources: Source Unknown; Livestock (Grazing or Feeding Operations)

Trough Camp into Tygarts Creek Carter County  
From River Mile 1.5 to 6.1 Segment Length: 4.6  
Impaired Use(s): Aquatic Life (Partial Support)  
Pollutant(s): Sedimentation/Siltation  
Suspected Sources: Channelization; Post-Development Erosion and Sedimentation

Tygarts Creek into Ohio River Greenup County  
From River Mile 0.0 to 45.7 Segment Length: 45.7  
Impaired Use(s): Primary Contact Recreation (Partial Support)  
Pollutant(s): Pathogens  
Suspected Sources: Agriculture; Land Disposal

See TMDLs Planned for Development During 2006.

**Big Sandy-Little Sandy-Tygarts Basin Unit**  
**Tygarts Creek Basin**  
**Streams**

White Oak Creek into Tygarts Creek

From River Mile 0.0 to 1.1

Greenup County

Segment Length: 1.1

Impaired Use(s): Aquatic Life (Nonsupport)

Pollutant(s): Impairment Unknown

Suspected Sources: Highways, Roads, Bridges, Infrastructure (New Construction);  
Habitat Modification - Other Than Hydromodification

**Ohio River Basin Unit  
Streams**

**Chapter 13. Ohio River Basin Unit 303(d) List**

The Ohio River Valley Water Sanitation Commission (ORSANCO) has reassessed the Ohio River mainstem for the 2006 reporting period. Support status for the Primary Contact Recreation Use was determined based on data collected during the summer recreational season (May-Oct.) during 2003 to 2005. The Partial Support listings for the Fish Consumption Use due to Dioxin and PCBs are based on data collected from 1997 to 2004. The river miles for most segments have changed from the 2004 list to reflect the latest assessments. ORSANCO is continuing to collect data for PCB, Dioxin, and Pathogen TMDL development for the Ohio River. Additional data is required to complete the TMDLs.

Ohio River into Mississippi River Boyd County  
From River Mile 317.0 to 357.0 Segment Length: 40.0  
Impaired Use(s): Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls  
Suspected Sources: Source Unknown

Ohio River into Mississippi River Lewis County  
From River Mile 357.0 to 362.0 Segment Length: 5.0  
Impaired Use(s): Fish Consumption (Partial Support), Primary Contact Recreation  
(Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls;  
Pathogens  
Suspected Sources: Source Unknown

Ohio River into Mississippi River Lewis County  
From River Mile 362.0 to 383.0 Segment Length: 21.0  
Impaired Use(s): Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls  
Suspected Sources: Source Unknown

Ohio River into Mississippi River Lewis County  
From River Mile 383.0 to 388.0 Segment Length: 5.0  
Impaired Use(s): Fish Consumption (Partial Support), Primary Contact Recreation  
(Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls;  
Pathogens  
Suspected Sources: Source Unknown; On-site Treatment Systems (Septic Systems and  
Similar Decentralized Systems); Unspecified Urban Stormwater;  
Agriculture; Combined Sewer Overflows

**Ohio River Basin Unit  
Streams**

Ohio River into Mississippi River Lewis County  
From River Mile 388.0 to 393.0 Segment Length: 5.0  
Impaired Use(s): Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls  
Suspected Sources: Source Unknown

Ohio River into Mississippi River Lewis County  
From River Mile 393.0 to 397.0 Segment Length: 4.0  
Impaired Use(s): Fish Consumption (Partial Support), Primary Contact Recreation (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls; Pathogens  
Suspected Sources: Source Unknown; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Unspecified Urban Stormwater; Agriculture; Combined Sewer Overflows

Ohio River into Mississippi River Lewis County  
From River Mile 397.0 to 461.0 Segment Length: 64.0  
Impaired Use(s): Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls  
Suspected Sources: Source Unknown

Ohio River into Mississippi River Campbell County  
From River Mile 461.0 to 477.0 Segment Length: 16.0  
Impaired Use(s): Primary Contact Recreation (Nonsupport), Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls; Pathogens  
Suspected Sources: Source Unknown; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Unspecified Urban Stormwater; Agriculture; Combined Sewer Overflows

Ohio River into Mississippi River Kenton County  
From River Mile 477.0 to 484.0 Segment Length: 7.0  
Impaired Use(s): Primary Contact Recreation (Partial Support), Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls; Pathogens  
Suspected Sources: Source Unknown; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Unspecified Urban Stormwater; Agriculture; Combined Sewer Overflows

## Ohio River Basin Unit Streams

Ohio River into Mississippi River Boone County  
From River Mile 484.0 to 488.0 Segment Length: 4.0  
Impaired Use(s): Primary Contact Recreation (Nonsupport), Fish Consumption  
(Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls;  
Pathogens  
Suspected Sources: Source Unknown; On-site Treatment Systems (Septic Systems and  
Similar Decentralized Systems); Unspecified Urban Stormwater;  
Agriculture; Combined Sewer Overflows

Ohio River into Mississippi River Boone County  
From River Mile 488.0 to 491.0 Segment Length: 3.0  
Impaired Use(s): Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls  
Suspected Sources: Source Unknown

Ohio River into Mississippi River Boone County  
From River Mile 491.0 to 501.0 Segment Length: 10.0  
Impaired Use(s): Fish Consumption (Partial Support), Primary Contact Recreation  
(Nonsupport)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls;  
Pathogens  
Suspected Sources: Source Unknown; On-site Treatment Systems (Septic Systems and  
Similar Decentralized Systems); Unspecified Urban Stormwater;  
Agriculture; Combined Sewer Overflows

Ohio River into Mississippi River Boone County  
From River Mile 501.0 to 521.0 Segment Length: 20.0  
Impaired Use(s): Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls  
Suspected Sources: Source Unknown

Ohio River into Mississippi River Gallatin County  
From River Mile 521.0 to 541.0 Segment Length: 20.0  
Impaired Use(s): Fish Consumption (Partial Support), Primary Contact Recreation  
(Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls;  
Pathogens  
Suspected Sources: Source Unknown; On-site Treatment Systems (Septic Systems and  
Similar Decentralized Systems); Unspecified Urban Stormwater;  
Agriculture; Combined Sewer Overflows

## Ohio River Basin Unit Streams

Ohio River into Mississippi River Carroll County  
From River Mile 541.0 to 593.0 Segment Length: 52.0  
Impaired Use(s): Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls  
Suspected Sources: Source Unknown

Ohio River into Mississippi River Jefferson County  
From River Mile 593.0 to 608.0 Segment Length: 15.0  
Impaired Use(s): Primary Contact Recreation (Partial Support), Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls; Pathogens  
Suspected Sources: Source Unknown; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Unspecified Urban Stormwater; Agriculture; Combined Sewer Overflows

Ohio River into Mississippi River Jefferson County  
From River Mile 608.0 to 621.0 Segment Length: 13.0  
Impaired Use(s): Primary Contact Recreation (Nonsupport), Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls; Pathogens  
Suspected Sources: Source Unknown; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Unspecified Urban Stormwater; Agriculture; Combined Sewer Overflows

Ohio River into Mississippi River Jefferson County  
From River Mile 621.0 to 629.0 Segment Length: 8.0  
Impaired Use(s): Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls  
Suspected Sources: Source Unknown

Ohio River into Mississippi River Jefferson County  
From River Mile 629.0 to 709.0 Segment Length: 80.0  
Impaired Use(s): Primary Contact Recreation (Nonsupport), Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls; Pathogens  
Suspected Sources: Source Unknown; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Unspecified Urban Stormwater; Agriculture; Combined Sewer Overflows

## Ohio River Basin Unit Streams

Ohio River into Mississippi River Breckinridge County  
From River Mile 709.0 to 719.0 Segment Length: 10.0  
Impaired Use(s): Fish Consumption (Partial Support), Primary Contact Recreation (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls; Pathogens  
Suspected Sources: Source Unknown; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Unspecified Urban Stormwater; Agriculture; Combined Sewer Overflows

Ohio River into Mississippi River Hancock County  
From River Mile 719.0 to 785.0 Segment Length: 66.0  
Impaired Use(s): Primary Contact Recreation (Nonsupport), Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls; Pathogens  
Suspected Sources: Source Unknown; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Unspecified Urban Stormwater; Agriculture; Combined Sewer Overflows

Ohio River into Mississippi River Henderson County  
From River Mile 785.0 to 789.0 Segment Length: 4.0  
Impaired Use(s): Primary Contact Recreation (Partial Support ); Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls; Pathogens  
Suspected Sources: Source Unknown; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Unspecified Urban Stormwater; Agriculture; Combined Sewer Overflows

Ohio River into Mississippi River Henderson County  
From River Mile 789.0 to 844.0 Segment Length: 55.0  
Impaired Use(s): Primary Contact Recreation (Nonsupport), Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls; Pathogens  
Suspected Sources: Source Unknown; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Unspecified Urban Stormwater; Agriculture; Combined Sewer Overflows

## Ohio River Basin Unit Streams

Ohio River into Mississippi River Union County  
From River Mile 844.0 to 849.0 Segment Length: 5.0  
Impaired Use(s): Primary Contact Recreation (Partial Support), Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls; Pathogens  
Suspected Sources: Source Unknown; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Unspecified Urban Stormwater; Agriculture; Combined Sewer Overflows

Ohio River into Mississippi River Union County  
From River Mile 849.0 to 862.0 Segment Length: 13.0  
Impaired Use(s): Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls  
Suspected Sources: Source Unknown

Ohio River into Mississippi River Union County  
From River Mile 862.0 to 873.0 Segment Length: 11.0  
Impaired Use(s): Primary Contact Recreation (Partial Support), Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls; Pathogens  
Suspected Sources: Source Unknown; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Unspecified Urban Stormwater; Agriculture; Combined Sewer Overflows

Ohio River into Mississippi River Crittenden County  
From River Mile 873.0 to 894.0 Segment Length: 21.0  
Impaired Use(s): Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls  
Suspected Sources: Source Unknown

Ohio River into Mississippi River Livingston County  
From River Mile 894.0 to 910.0 Segment Length: 16.0  
Impaired Use(s): Primary Contact Recreation (Partial Support), Fish Consumption (Partial Support)  
Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls; Pathogens  
Suspected Sources: Source Unknown; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Unspecified Urban Stormwater; Agriculture; Combined Sewer Overflows



**Ohio River Basin Unit  
Streams**

Ohio River into Mississippi River

From River Mile 910.0 to 981.0

Livingston County

Segment Length: 71.0

Impaired Use(s): Fish Consumption (Partial Support)

Pollutant(s): Dioxin (Including 2,3,7,8-TCDD); Polychlorinated Biphenyls

Suspected Sources: Source Unknown

## Appendix A. Table of Category 5A Listings for the 5 BMUs

Category 5A is the list of impaired waterbody/pollutant combinations that require TMDLs (i.e., the 303(d) List). This Appendix contains most of the narrative information found in Chapters 8 through 12, in tabular format. Chapter 13 narrative information (from the Ohio River mainstem) can be found in Appendix B.

One difference between the narrative information and this Appendix is the Designated Uses listed here do not contain the Minimum Use Criteria; only two streams in Kentucky (Bayou Creek and Little Bayou Creek, in McCracken County) are impaired for the Minimum Use Criteria, see Chapter 10, Section 10.5 for further information.

This Appendix also lists a waterbody identifier number (Waterbody ID) and a USGS Hydrologic Unit Code 8 (HUC8) number for each impaired segment.

Key:

<i>DWS</i>	Drinking Water Source: Usually a lake or reservoir, designated as a drinking supply for towns and cities.	
<b>IMPAIRMENTS &amp; SOURCES</b>		
Two categories used and designated by the Environmental Protection Agency to evaluate and assess surface waters across the nation. Each impairment and source has a numerical and narrative explanation, used by the Assessment Database (ADB), an electronic database used by Kentucky to report assessment data to the EPA.		
The Environmental Protection Agency's world wide web site has the impairment and source tables with all available explanation. Refer to the web address below, or contact the Kentucky Division of Water for additional assistance. <a href="http://www.epa.gov/waters/adb/docs.htm">http://www.epa.gov/waters/adb/docs.htm</a> Refer to the Section 'ADB Domain Value Lists', and the 'Impairments' and 'Sources' documents.		

### Kentucky River Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>

<b>Kentucky River Basin</b>													
Arnolds Creek	0.0 to 10.8	Ten Mile Crk	486059_00	5100205	Grant	PS						Sediment/Siltation	Non-Irrig Crop Prod, Strmbank Mod/Destable.
Bailey Run	0.0 to 2.9	Cedar Brook	486229_01	5100205	Anderson	PS						Sediment/Siltation, TDS	Post-Devel. Erosion/Sediment., Unknown, Urban Stormwater
Balls Fork	8.3 to 11.3	Troublesome Crk	486305_00	5100201	Knott	NS						Sediment/Siltation, TDS	Pasture Grazing, Non-Irrig Crop Prod, Post-Devel. Erosion/Sediment., Surface Mining
Bantas Fork	0.0 to 6.2	Salt River Sixmile Crk	486321_00	5100205	Henry	PS						Sediment/Siltation	Agriculture, Habitat Mod-not Hydro
Baughman Fork	0.0 to 2.7	Boone Creek	486478_01	5100205	Fayette	NS						Nutrient/Eutroph. Bio. Indicators, Org. Enrichment (Sewage) Bio.	Pasture Grazing, Package Plants/Other Permitted Small Dischrge
Beals Run	0.0 to 1.9	South Elkhorn Crk	486507_01	5100205	Woodford	NS						Sediment/Siltation, Org.Enrich. (Sewage)	Hwys/Rd/Brdgs Infrastructure (New Construction), Land Clearance (Devel./Redevelop.), Livestock-Grazing/Feed. Op's
Benson Creek	0.0 to 4.6	Kentucky River	486877_01	5100205	Franklin	PS						Sediment/Siltation	Agriculture, Habitat Mod-not Hydro

### Kentucky River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Benson Creek	4.6 to 6.7	Kentucky River	486877_02	5100205	Franklin	PS						Sediment/Siltation, Nutrient/Eutroph.	Hwy/Rd/Brdg Runoff (Non-Constr), Septic Tanks/Decentral. Systems Agriculture, Habitat Mod-not Hydro
Benson Creek	6.7 to 13.4	Kentucky River	486877_03	5100205	Franklin	NS						Sediment/Siltation, Nutrient/Eutroph.	Hwy/Rd/Brdg Runoff (Non-Constr), Agriculture, Habitat Mod-not Hydro
Big Caney Creek	0.3 to 8.0	Quicksand Crk	487150_00	5100201	Breathitt	PS						Sediment/Siltation, TDS, Turbidity	Impacts fr. Aband. Mine Lands, Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable., Sub/Surface Mining
Big Twin Creek	0.0 to 3.8	Kentucky River	487286_00	5100205	Owen	PS						Sediment/Siltation	Agriculture, Habitat Mod-not Hydro
Big Willard Creek	0.0 to 4.5	North Fork Kentucky River	510708_00	5100201	Perry	NS						Sediment/Siltation, TDS, Turbidity	Aband. Mine Land Impacts, Riparian Habitat Loss, Silviculture, Strmbank Mods, Subsurface Mining, Surface Mining
Boltz Lake	92 acres	N/A	487668_01	5100205	Grant		PS					Oxygen - Dissolved, Nutrient/Eutroph.	Agriculture, Urban Stormwater
Boone Creek	7.4 to 12.6	Kentucky River	487688_02	5100205	Fayette		PS	NS				Pathogens, Nutrient/Eutroph.	Livestock-Grazing/Feed. Op's
Brush Creek	0.0 to 6.6	Red River	510969_00	5100204	Powell	PS						Unknown	Unknown

### Kentucky River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Buckhorn Creek	0.0 to 2.4	Troublesome Crk	488268_01	5100201	Breathitt	NS	NS	NS				Sediment/Siltation, TDS, Pathogens, Turbidity	Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable., Unknown, Coal Mining
Buckhorn Creek	2.4 to 6.8	Troublesome Crk	488268_02	5100201	Breathitt	PS						Sediment/Siltation, TDS	Impacts fr. Aband. Mine Lands
Bull Creek	0.0 to 2.0	Collins Fork	511048_00	5100203	Knox	PS						Sediment/Siltation	Non-Irrig Crop Prod
Bullock Pen Lake	134 acres	N/A	488380_01	5100205	Grant		PS					Oxygen - Dissolved, Nutrient/Eutroph.	Septic Tanks/Decentral. Systems Agriculture
Cane Creek	0.0 to 3.1	Red River	511187_00	5100204	Powell			NS				Pathogens	Livestock-Grazing/Feed. Op's
Cane Run	0.0 to 3.0	North Elkhorn Crk	488799_01	5100205	Scott	NS						Sediment/Siltation	Pasture Grazing, Non-Irrig Crop Prod
Cane Run	3.0 to 9.6	North Elkhorn Crk	488799_02	5100205	Scott	PS	PS	NS				Sediment/Siltation, Pathogens, Nutrient/Eutroph.	Hwys/Rd/Brdgs, Landfills, Package Plant/Other Small Dischrge., Livestock-Grazing/Feed. Op's
Cane Run	9.6 to 17.4	North Elkhorn Crk	488799_03	5100205	Fayette	NS	NS	NS				Pathogens, Org.Enrich. (Sewage)	Livestock-Grazing/Feed. Op's, Urban Stormwater
Caney Creek	0.0 to 1.5	Eagle Crk	488843_01	5100205	Owen	PS						Sediment/Siltation, Org.Enrich. (Sewage)	Channelization, Riparian Habitat Loss, Pasture Grazing

### Kentucky River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Carr Creek Reservoir	710 acres	N/A	488975_00	5100201	Knott		PS		PS			Oxygen - Diss, Sediment/Silt, TSS, Nutrient/ Eutroph, Org.Enrich (Sewage)	Surface Mining, Unknown
Carr Fork	15.6 to 26.4	North Fork Kentucky River	511230_03	5100201	Knott			NS	NS			Pathogens	Unknown
Cat Creek	0.0 to 8.0	Red River	511245_01	5100204	Powell	PS						Sediment/Siltation	Riparian Habitat Loss
Cedar Creek	0.0 to 9.4	Kentucky River	489184_01	5100205	Owen	PS	PS					Sediment/Siltation, Nutrient/Eutroph.	Grazing-Riparian Zones, Hwy/Rd/Brdg Runoff (Non-Constr), Riparian Habitat Loss, Pasture Grazing, Silviculture
Cedar Creek Lake	784 acres	N/A	CLN211_00	5100205	Lincoln					PS		Methyl mercury	Unknown
Chambers Fork	0.7 to 1.1	Baptist Fork	489323_01	5100204	Wolfe	PS						Sediment/Siltation	Riparian Habitat Loss, Pasture Grazing
Clarks Run	0.0 to 4.3	Dix River	489554_01	5100205	Boyle	PS						Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge, Urban Runoff/Storm Sewers
Clarks Run	4.3 to 6.6	Dix River	489554_02	5100205	Boyle	NS						Org.Enrich. (Sewage), Unknown	Municipal Pt. Source Dischrge, Urban Stormwater
Clarks Run	8.1 to 13.5	Dix River	489554_03	5100205	Boyle	PS						Sediment/Siltation	Strmbank Mod/Destable.
Collins Fork	2.4 to 6.3	Goose Crk	511474_00	5100203	Clay	PS						Sediment/Siltation	Habitat Mod-not Hydro

### Kentucky River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Cope Fork	0.0 to 1.9	Frozen Crk	490072_00	5100201	Breathitt	PS						Sediment/Siltation, TDS	Channelization, Riparian Habitat Loss, Pasture Grazing, Non-Irrig Crop Prod, Strmbank Mod/Destable., Surface Mining, Silviculture
Copper Creek	2.2 to 5.0	Dix River	511529_01	5100205	Rockcastle	PS						Sediment/Siltation	Riparian Habitat Loss, Pasture Grazing
Crane Creek	0.0 to 5.4	South Fork Kentucky River	511620_01	5100203	Clay	PS						Sediment/Siltation	Channelization, Riparian Habitat Loss, Post-Devel. Erosion/Sediment.
Crystal Creek	0.0 to 2.3	Kentucky River	511669_01	5100201	Lee	PS						Org.Enrich. (Sewage)	Landfills
Cutshin Creek	9.7 to 10.7	Middle Fork Kentucky River	511693_01	5100202	Leslie	PS						Sediment/Siltation	Riparian Habitat Loss, Strmbank Mod/Destable., Surface Mining
Defeated Creek	0.4 to 1.6	Carr Creek Reservoir	490786_01	5100201	Knott			NS	NS			Pathogens	Unknown
Dix River	33.3 to 36.1	Kentucky River	517054_02	5100205	Garrard			PS				Pathogens	Pasture Grazing, Unknown
Dry Run	0.0 to 3.1	North Elkhorn Crk	491240_00	5100205	Scott	PS						Sediment/Siltation, Nutrient/Eutroph., Unknown	Pasture Grazing, Unknown
Eagle Creek	15.3 to 28.5	Kentucky River	491407_01	5100205	Owen			NS				Pathogens	Unknown

### Kentucky River Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Eagle Creek	31.6 to 36.5	Kentucky River	491407_02	5100205	Grant	NS						Sediment/Siltation, Nutrient/Eutroph.	Pasture Grazing, Crop Prod
Eagle Creek	50.8 to 58.5	Kentucky River	491407_03	5100205	Grant	PS	PS					Sediment/Siltation, Nutrient/Eutroph.	Livestock-Grazing/Feed. Op's, Crop Prod
East Fork Otter Creek	0.0 to 2.7	Kentucky River	491474_00	5100205	Madison	PS						Nutrient/Eutroph.	Pasture Grazing, Crop Prod
East Hickman Creek	4.2 to 10.2	Hickman Crk	491487_01	5100205	Fayette	PS	PS	NS				Pathogens, Nutrient/Eutroph.	Livestock-Grazing/Feed. Op's, Urban Stormwater
East Hickman Creek	12.6 to 14.0	Hickman Crk	491487_02	5100205	Fayette			NS				Pathogens	Urban Stormwater
Elk Creek	0.0 to 1.6	Eagle Crk	491658_00	5100205	Owen	PS						Unknown	Riparian Habitat Loss, Unknown
Elkhorn Creek	0.0 to 18.2	Kentucky River	491690_01	5100205	Franklin			PS		PS		Mercury, Pathogens	Unknown, Agriculture
Elmer Davis Lake	149 acres	N/A	CLN035_01	5100205	Owen		PS					Oxygen - Dissolved, Nutrient/Eutroph.	Agriculture
Flat Creek	0.0 to 7.1	Kentucky River	492179_00	5100205	Franklin	PS						Sediment/Siltation	Agriculture, Habitat Mod-not Hydro
Frozen Creek	0.0 to 13.9	North Fork Kentucky River	492582_01	5100201	Breathitt	PS						Sediment/Siltation	Riparian Habitat Loss, Post-Devel. Erosion/Sediment.
Goose Creek	0.0 to 1.8	Benson Crk	493013_01	5100205	Shelby	PS						Sediment/Siltation, Unknown	Hwy/Rd/Brdg Runoff (Non-Constr), Agriculture, Habitat Mod-not Hydro



### Kentucky River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Goose Creek	1.9 to 4.2	Benson Crk	493013_02	5100205	Shelby	PS						Unknown	Grazing-Riparian Zones, Pasture Grazing, Livestock-Grazing/Feed. Op's, Agriculture
Goose Creek	0.0 to 8.3	South Fork Kentucky River	512349_01	5100203	Clay			PS				Pathogens	Land Disposal (Onsite Wastewater Systems-Septic Tanks and/or Straight Pipes)
Grapevine Creek	0.0 to 1.1	North Fork Kentucky River	512371_00	5100201	Perry	NS						Sediment/Siltation, TDS, Turbidity	Impacts fr. Aband. Mine Lands, Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable., Subsurface Mining, Surface Mining
Hanging Fork	0.0 to 15.0	Dix River	493684_01	5100205	Lincoln			NS				Pathogens	Livestock-Grazing/Feed. Op's
Hardwick Creek	0.0 to 3.2	Red River	512561_00	5100204	Powell			NS				Pathogens	Septic Tanks/Decentral. Systems Livestock-Grazing/Feed. Op's
Hatton Creek	0.0 to 4.2	Red River	512588_00	5100204	Powell	PS						Unknown	Unknown
Hawes Fork	0.0 to 4.4	Quicksand Crk	493879_00	5100201	Breathitt	NS						Sediment/Siltation, TDS, Turbidity	Impacts fr. Aband. Mine Lands, Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable., Subsurface Mining, Surface Mining

### Kentucky River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Hell Creek	0.0 to 3.5	North Fork Kentucky River	512636_00	5100201	Lee	PS						TDS	Impacts fr. Aband. Mine Lands, Silviculture, Petroleum / Natr'l Gas Prod, Surface Mining
Herrington Lake	2940 acres	N/A	494090_01	5100205	Garrard		NS			PS		Methyl mercury, Oxygen - Dissolved, Nutrient/Eutroph.	Internal Nutrient Recycling, Municipal Pt. Source Dischrge, Septic Tanks/Decentral. Systems Unknown, Agriculture
Hickman Creek	0.0 to 6.0	Kentucky River	494112_01	5100205	Jessamine	PS						Nutrient/Eutroph.	Municipal Pt. Source Dischrge, Livestock-Grazing/Feed. Op's
Hickman Creek	6.0 to 25.5	Kentucky River	494112_02	5100205	Jessamine	PS						Sediment/Siltation, Nutrient/Eutroph.	Municipal Pt. Source Dischrge, Non-Irrig Crop Prod, Livestock-Grazing/Feed. Op's
Holly Creek	0.0 to 6.2	North Fork Kentucky River	494406_01	5100201	Wolfe	PS						Sediment/Siltation	Heap-leach Ext Mining, Riparian Habitat Loss, Strmbank Mod/Destable., Agriculture
Horse Creek	0.0 to 8.3	Goose Crk	512793_01	5100203	Clay	PS						Sediment/Siltation	Riparian Habitat Loss, Pasture Grazing, Surface Mining

### Kentucky River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Hunting Creek	0.0 to 2.6	Quicksand Crk	494791_00	5100201	Breathitt	NS						Sediment/Siltation, Turbidity	Impacts fr. Aband. Mine Lands, Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable., Subsurface Mining, Surface Mining
Indian Creek	2.6 to 7.8	Red River	512905_01	5100204	Menifee	PS						Sediment/Siltation, TDS	Hwy/Rd/Brdg Runoff (Non-Constr), Surface Mining
Johnson Fork	0.0 to 0.5	Lacey Crk	495407_01	5100204	Wolfe	PS						Sediment/Siltation, TDS	Riparian Habitat Loss, Pasture Grazing, Petroleum/ Natr'l Gas Prod, Residential Districts
Judy Creek	0.0 to 1.5	Red River	513089_01	5100204	Powell	NS						Unknown	Unknown
Kentucky River	0.3 to 11.5	Ohio River	513130_01	5100205	Owen					NS		Methyl mercury	Atmospheric Depositions-Toxics, Unknown
Kentucky River	53.5 to 118.2	Ohio River	513130_03	5100205	Franklin					NS		Methyl mercury	Unknown
Kentucky River	154.0 to 210.0	Ohio River	513130_08	5100205	Jessamine			PS		PS		Methyl mercury, Pathogens	Unknown, Agriculture
Lacy Creek	0.0 to 7.3	Red River	495895_01	5100204	Wolfe	PS						Sediment/Siltation	Channelization, Heap-leach Ext Mining, Riparian Habitat Loss, Strmbank Mod/Destable., Agriculture
Lake Reba	78 acres	N/A	501636_01	5100205	Madison		NS					Oxygen - Dissolved, Nutrient/Eutroph.	Golf Courses, Urban Stormwater
Laurel Creek	3.8 to 4.8	Goose Crk	513241_00	5100203	Clay	PS						Nutrient/Eutroph.	Pasture Grazing, Non-Irrig Crop Prod

### Kentucky River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Left Fork Island Creek	0.0 to 5.0	Island Crk	513314_00	5100203	Owsley	PS						Sediment/Siltation	Non-Irrig Crop Prod, Intro. Non-Native Organisms (Accident/Intent.)
Left Fork Millstone Creek	1.6 to 2.9	Millstone Crk	496243_01	5100201	Letcher	NS		NS	NS			Sediment/Siltation, TDS, pH	Surface Mining
Lick Creek	0.0 to 5.4	Eagle Crk	496473_01	5100205	Carroll	PS						Sediment/Siltation, TDS	Hwy/Rd/Brdg Runoff (Non-Constr), Riparian Habitat Loss, Post-Devel. Erosion/Sediment., Urban Stormwater
Line Fork	9.1 to 11.6	Defeated Crk	513437_01	5100201	Letcher	PS						Sediment/Siltation	Surface Mining
Line Fork	11.6 to 27.5	Defeated Crk	513437_02	5100201	Letcher			PS				Pathogens	Septic Tanks/Decentral. Systems Sewage Dischrg./Unsewered Areas
Little Willard Creek	0.0 to 2.5	North Fork Kentucky River	513541_01	5100201	Perry	NS						Sediment/Siltation, TDS	Channelization, Riparian Habitat Loss, Post-Devel.. Erosion/ Sediment., Land Clearance, Strmbank Mod/Destab., Surface Mining
Long Fork	0.0 to 4.6	Buckhorn Crk	497111_01	5100201	Breathitt	PS						Sediment/Siltation, TDS	Surface Mining
Lost Creek	0.0 to 3.7	Troublesome Crk	497178_01	5100201	Breathitt			NS				Pathogens	Unknown

### Kentucky River Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Lost Creek	3.7 to 9.0	Troublesome Crk	497178_02	5100201	Breathitt	NS						Sediment/Siltation, TDS, Turbidity	Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable, Coal Mining
Lotts Creek	0.4 to 1.0	North Fork Kentucky River	497201_01	5100201	Knott	PS						Sediment/Siltation	Riparian Habitat Loss, Land Clearance (Devel./Redevelop.)
Lotts Creek	1.2 to 6.0	Youngs Fork	497201_02	5100201	Perry	NS						Sediment/Siltation, TDS, Turbidity	Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable., Coal Mining
Lower Buffalo Creek	0.0 to 2.4	South Fork Kentucky River	513677_00	5100203	Owsley	PS						Sediment/Siltation	Riparian Habitat Loss
Lower Howard Creek	2.7 to 6.2	Kentucky River	497285_00	5100205	Clark	NS						Nutrient/Eutroph., Org.Enrich. (Sewage), Unknown	Upstream Impound., Unknown, Livestock-Grazing/Feed. Op's
Lulbegrud Creek	0.0 to 7.3	Red River	497344_01	5100204	Clark	PS						Sediment/Siltation	Unknown
Marble Creek	0.1 to 3.9	Kentucky River	497527_01	5100205	Jessamine	PS						Sediment/Siltation	Strmbank Mod/Destable.
McConnell Run	0.0 to 4.4	North Fork Elkhorn Crk	497799_00	5100205	Scott	PS						Sediment/Siltation, Nutrient/Eutroph.	Pasture Grazing
Meadow Creek	0.5 to 3.7	South Fork Kentucky River	513890_01	5100203	Owsley	PS						Sediment/Siltation	Riparian Habitat Loss, Pasture Grazing, Non-Irrig Crop Prod

### Kentucky River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Middle Fork Kentucky River	67.0 to 73.4	Kentucky River	513931_04	5100202	Leslie	PS	PS	PS				Sediment/Siltation, TDS, Pathogens	Riparian Habitat Loss, Non-Irrig Crop Prod, Petroleum/ Nat'l Gas, Range. Grazing, Surface Mining, Inactive Mining
Middle Fork, Kentucky River	61.5 to 64.2	Kentucky River	513931_03	5100202	Leslie			NS	NS			Pathogens	Unknown
Mill Creek	0.0 to 3.3	Rockhouse Creek	498258_01	5100201	Letcher	NS						Sediment/Siltation, TSS	Hwy/Rd/Brdg Runoff (Non-Constr), Riparian Habitat Loss, Petroleum/ Nat'l Gas Prod, Surface Mining
Mocks Branch	1.6 to 5.7	Dix River	498468_01	5100205	Boyle	PS						Sediment/Siltation	Riparian Habitat Loss, Strmbank Mod/Destable.
Muddy Creek	0.0 to 20.2	Kentucky River	514141_01	5100205	Madison			NS				Pathogens	Livestock-Grazing/Feed. Op's
Muncy Creek	2.7 to 4.7	Middle Fork Kentucky River	514159_01	5100202	Leslie	NS						Sediment/Siltation	Riparian Habitat Loss, Post-Devel. Erosion/Sediment.
Noland Creek	0.1 to 1.2	Kentucky River	499508_01	5100204	Estill	PS						Sediment/Siltation	Crop Prod
North Benson Creek	0.8 to 2.0	Benson Crk	499533_00	5100205	Franklin	PS						Sediment/Siltation, Org.Enrich. (Sewage)	Hwy/Rd/Brdg Runoff (Non-Constr), Hwys/Rd/Brdgs Infrastructure (New Construction), Agriculture

### Kentucky River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Con-sump-tion	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
North Elkhorn Creek	66.0 to 73.8	Elkhorn Crk	499540_03	5100205	Fayette	PS		NS				Sediment/Siltation, Pathogens, Nutrient/Eutroph., Org.Enrich. (Sewage)	Hwy/Rd/Brdg Runoff , Municipal Pt. Source Dischrge, Land Clearance Unknown, Agriculture, Habitat Mod-not Hydro, Urban Runoff/Storm Sewers
North Fork Kentucky River	145.5 to 147.9	Kentucky River	514290_07	5100201	Letcher	NS						Sediment/Siltation	Non-Irrig Crop Prod, Crop Prod , Habitat Mod-not Hydro, Urban Runoff/Storm Sewers
North Fork Kentucky River	147.9 to 162.0	Kentucky River	514290_08	5100201	Letcher	NS						Sediment/Siltation	Grazing-Riparian Zones, Livestock-Grazing/Feed. Op's, Crop Prod , Silviculture, Urban Runoff/Storm Sewers
North Fork North Benson Creek	0.0 to 2.2	North Benson Crk	499560_00	5100205	Franklin	PS						Sediment/Siltation, Nutrient/Eutroph.	Riparian Habitat Loss, Post-Devel. Erosion/Sediment., Agriculture
Otter Creek	0.0 to 4.1	Kentucky River	500025_01	5100205	Madison	PS	PS					Nutrient/Eutroph, Organic Enrich.	Livestock-Grazing/Feed Op's, Mun. Pt Source Dischrge, Crop Prod
Paint Lick Creek	0.0 to 7.5	Kentucky River	500121_01	5100205	Garrard			PS				Pathogens	Livestock-Grazing/Feed. Op's
Panbowl Lake	98 acres	N/A	500145_01	5100201	Breathitt		NS					Oxygen - Dissolved, Org.Enrich. (Sewage)	Internal Nutrient Recycling, Septage Disposal

### Kentucky River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Plum Branch	0.0 to 3.9	Red River	514662_01	5100204	Powell	PS						Sediment/Siltation	Riparian Habitat Loss, Strmbank Mod/Destable., Agriculture
Polls Creek	0.0 to 4.7	Cutshin Crk	514679_00	5100202	Leslie	PS						Unknown	Unknown
Potter Fork	0.0 to 4.4	Boone Fork	501199_00	5100201	Letcher	NS						Org.Enrich. (Sewage)	Septic Tanks/Decentral. Sys )
Puncheon Camp Creek	0.0 to 3.2	Middle Fork Kentucky River	501441_00	5100202	Breathitt	PS						Unknown	Unknown
Quicksand Creek	0.0 to 17.0	North Fork Kentucky River	501481_01	5100201	Breathitt	PS	PS	PS				Pathogens, Turbidity, Unknown	Impacts fr. Aband. Mine Lands, Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable., Unknown, Coal Mining
Quicksand Creek	21.7 to 30.8	North Fork Kentucky River	501481_02	5100201	Breathitt	NS						Sediment/Siltation, TDS, Turbidity	Impacts fr. Aband. Mine Lands, Riparian Habitat Loss, Strmbank Mod/Destable., Surface Mining, Habitat Mod-not Hydro, Coal Mining, Silviculture
Rattlesnake Creek	0.0 to 1.2	Eagle Crk	501593_01	5100205	Grant	NS						Unknown	Unknown, Natr'l Conditions-Water Quality Standards Use Attainability Analyses Needed



### Kentucky River Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Red Bird River	0.0 to 15.0	South Fork of Kentucky River	514862_01	5100203	Clay			PS				Pathogens	Land Disposal (Onsite Wastewater Systems-Septic tanks and/or Straight Pipes)
Red Lick Creek	0.0 to 8.4	Station Camp Crk	510193_01	5100204	Madison	PS	PS	PS				Pathogens	Land Clearance (Devel./Redevelop.), Unknown
Red River	64.1 to 67.6	Kentucky River	514872_04	5100204	Wolfe	PS						Sediment/Siltation	Riparian Habitat Loss, Pasture Grazing
Red River	70.0 to 83.9	Kentucky River	514872_05	5100204	Wolfe	PS						Sediment/Siltation	Riparian Habitat Loss, Pasture Grazing, Crop Prod
Red River	89.5 to 93.4	Kentucky River	514872_06	5100204	Wolfe	PS						Sediment/Siltation	Crop Prod
Richland Creek	0.0 to 0.8	Eagle Crk	501823_00	5100205	Owen	PS						Sediment/Siltation	Specialty Crop Prod
Right Fork Buffalo Creek	0.0 to 2.1	Buffalo Crk	514933_01	5100203	Owsley	PS						Unknown	Unknown
Right Fork Lacy Creek	0.0 to 2.2	Lacy Crk	501895_01	5100204	Wolfe	PS						Sediment/Siltation	Crop Prod
Right Fork Millstone Creek	0.0 to 1.6	Millstone Crk	501910_01	5100201	Letcher	NS						Sediment/Siltation, TDS	Surface Mining

### Kentucky River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Rockhouse Creek	0.0 to 3.6	North Fork Kentucky River	502192_01	5100201	Letcher	PS	PS	NS				Sediment/Siltation, TDS, Pathogens, Turbidity	Impacts fr. Aband. Mine Lands, Riparian Habitat Loss, Septic Tanks/Decentral. Systems Silviculture, Strmbank Mod/Destable., Sub/Surface Mining
Rose Fork	0.0 to 3.1	Red River	502332_01	5100204	Wolfe	NS						Sediment/Siltation	Crop Prod
Sexton Creek	0.1 to 17.2	Goose Crk	515329_01	5100203	Clay	PS	PS	PS	PS			Sediment/Siltation, pH	Hwy/Rd/Brdg Runoff (Non-Constr), Crop Prod
Silver Creek	0.0 to 11.1	Kentucky River	503507_01	5100205	Madison			PS				Pathogens	Unknown
Silver Creek	11.2 to 29.8	Kentucky River	503507_02	5100205	Madison	PS						Sediment/Siltation	Riparian Habitat Loss, Pasture Grazing, Non-Irrig Crop Prod, Post-Devel. Erosion/Sediment.
Snow Creek	0.0 to 3.9	Lulbegrud Crk	515528_01	5100204	Powell	PS						Sediment/Siltation	Riparian Habitat Loss, Pasture Grazing, Post-Devel. Erosion/Sediment.
South Elkhorn Creek	5.0 to 16.6	Elkhorn Crk	503901_01	5100205	Franklin	NS						Chlorine, Sediment/Siltation, TDS	Erosion fr. Derelict/Barren Land, Riparian Habitat Loss, Pasture Grazing, Mun. Pt. Source Dischrg, Non-Irrig Crop Prod, Package Plant/Other Small Dischrg, Sediment Resuspension (Clean)

### Kentucky River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
South Elkhorn Creek	16.6 to 34.5	Elkhorn Crk	503901_02	5100205	Woodford	NS		NS				Chlorine, Sediment/Siltation, TDS, Pathogens, Org. Enrich. Nutrient/Eutroph.	Riparian Habitat Loss, Man. Pasture Grazing, Municipal Pt. Source Dischrg, Non-Irrig Crop Prod, Range. Grazing, Livestock-Grazing/Feed. Op's, Agriculture
South Elkhorn Creek	34.5 to 52.7	Elkhorn Crk	503901_03	5100205	Woodford	NS						Chlorine, Sediment/Siltation, TDS, Org.Enrich. (Sewage)	Riparian Habitat Loss, Pasture Grazing, Municipal Pt Source Dischrg, Non-Irrig Crop Prod, Post-Devel. Erosion/Sediment.
South Fork Quicksand Creek	0.0 to 16.9	Quicksand Crk	503941_01	5100201	Breathitt	NS						Sediment/Siltation, TDS	Riparian Habitat Loss, Petroleum/ Natr'l Gas Prod (Permit), Surface Mining
Spears Creek	0.1 to 6.3	Mocks Branch	504043_01	5100205	Boyle	PS						Sediment/Silt, Nutrient /Eutroph.	Riparian Habitat Loss, Pasture Grazing, Strmbank Mod/Destable.
Spring Fork	3.1 to 6.9	Quicksand Crk	504137_00	5100201	Breathitt	NS						Sediment/Siltation, TDS, Turbidity	Impacts fr Aband. Mine Lands, Riparian Habitat Loss, Silviculture, Strmbank Mod/Destabal, Subsurface Mining, Surface Mining
Squabble Creek	0.0 to 4.7	Middle Fork Kentucky River	515639_01	5100202	Perry	PS						Sediment/Siltation, TDS	Riparian Habitat Loss, Land Clearanc (Devel./Redevelop.), Surface Mining

### Kentucky River Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Con- sump- tion</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Stanford City Lake / Rice Lake	43 acres	N/A	504225_01	5100205	Lincoln						PS	Unknown	Unknown
Station Camp Creek	0.0 to 21.3	Kentucky River	515669_01	5100204	Jackson	PS	PS					Sediment/Siltation	Riparian Habitat Loss, Man. Pasture Grazing, Non-Irrig Crop Prod, Other Rec Pollution Sources
Stevens Creek	14.5 to 17.3	Eagle Crk	504362_02	5100205	Owen	PS						Sediment/Siltation, Nutrient/Eutroph	Pasture Grazing
Stillwater Creek	0.0 to 3.5	Red River	515715_01	5100204	Wolfe	PS						Sediment/Siltation	Heap-leach Ext Mining, Riparian Habitat Loss, Agriculture
Stinnett Creek	1.3 to 4.7	Middle Fork Kentucky River	515718_01	5100202	Leslie	NS						Sediment/Siltation	Riparian Habitat Loss, Residential Districts, Land Clearance (Devel./Redevelop.)
Sturgeon Creek	8.0 to 12.2	Kentucky River	515768_01	5100204	Lee	PS						Sediment/Siltation	Riparian Habitat Loss, Non-Irrig Crop Prod, Surface Mining
Sugar Creek	4.8 to 6.0	Kentucky River	504657_01	5100205	Garrard	PS						TDS	Hwy/Rd/Brdg Runoff (Non-Constr)
Sulphur Creek	0.0 to 1.4	Drennon Crk	504735_00	5100205	Henry	NS						Sediment/Siltation, Nutrient/Eutroph.	Agriculture, Habitat Mod-not Hydro
Swift Camp Creek	0.0 to 13.8	Red River	515834_00	5100204	Wolfe	PS						Unknown	Unknown

### Kentucky River Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Con- sump- tion</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Tate Creek	0.0 to 6.5	Kentucky River	504972_01	5100205	Madison	NS						Nutrient/Eutroph., Org.Enrich. (Sewage)	Municipal Pt. Source Dischrg, Livestock- Grazing/Feed. Op's, Crop Prod
Ten Mile Creek	0.0 to 2.9	Eagle Crk	485704_01	5100205	Grant	PS	PS	PS				Pathogens, Unknown	Unknown
Three Forks Creek	0.0 to 7.6	Eagle Crk	505232_00	5100205	Grant	PS						Sediment/Siltation	Unknown
Town Branch	0.0 to 9.2	South Elkhorn Crk	505386_01	5100205	Fayette	PS		NS				Pathogens, Nutrient/ Eutroph., Org.Enrich. (Sewage)	Municipal Pt. Source Dischrg, Agriculture, Urban Runoff/Storm Sewers
Town Branch	9.2 to 10.6	South Elkhorn Crk	505386_02	5100205	Fayette		NS	NS				Pathogens, Nutrient/ Eutroph., Org.Enrich. (Sewage)	Municipal Pt. Source Dischrg, Urban Runoff/Storm Sewers
Town Branch	10.6 to 12.1	South Elkhorn Crk	505386_03	5100205	Fayette	PS						Unknown	Unknown
Trace Fork	0.2 to 2.4	Stillwater Crk	505441_01	5100201	Knott			NS	NS			Pathogens	Unknown
Troublesome Creek	0.0 to 45.1	North Fork Kentucky River	505515_01	5100201	Breathitt	NS	NS					Sediment/Siltation, TDS, Turbidity	Municipal Pt. Source Dischrg, Petroleum/ Natr'l Gas, Petroleum/ Natr'l Gas Prod, Coal Mining

### Kentucky River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Upper Devil Creek	0.0 to 1.0	North Fork Kentucky River	516120_00	5100201	Wolfe	PS						Sediment/Siltation	Impacts fr. Aband. Mine Lands, Surface Mining, Reclamation Inactive Mining, Inappropriate Waste Disposal, Silviculture
Upper Howard Creek	0.0 to 3.2	Kentucky River	485707_00	5100205	Clark	PS						Sediment/Siltation, Unknown	Range. Grazing, Unknown
Upper Twin Creek	0.0 to 3.6	Middle Fork Kentucky River	505917_00	5100202	Breathitt	PS						Unknown	Unknown
UT Cane Run	0.0 to 3.5	Cane Run	488799-6.13_00	5100205	Scott			NS				Pathogens	Livestock-Grazing/Feed. Op's, Municipal Pt Sources
UT to Engle Fork	0.0 to 0.5	Engle Fork	491781-1.1_01	5100201	Perry	NS						Sediment/Siltation, Water Temperature, TDS	Channelization, Riparian Habitat Loss, Surface Mining
UT to North Branch Lulbegrud Creek	0.0 to 2.2	North Branch Lulbegrud Crk	497344-2.3_01	5100204	Montgomery	NS						Unknown	Unknown
UT to North Elkhorn Creek	0.0 to 5.6	North Elkhorn Crk	499540-66_01	5100205	Fayette	PS						Sediment/Siltation, TDS, Nutrient/Eutroph.	Riparian Habitat Loss, Pasture Grazing, Post-Devel. Erosion/Sediment., Strmbank Mod/Destable.
UT to Smith Fork	0.0 to 0.55	Smith Fork	503789_01	5100205	Madison	PS						Sediment/Siltation	Heap-leach Ext Mining, Agriculture
UT to Swift Camp Creek	0.0 to 1.5	Swift Camp Crk	515834-11.97_00	5100204	Wolfe	NS						Sediment/Siltation	Riparian Habitat Loss, Post-Devel. Erosion/Sediment.,

### Kentucky River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
													Septage Disposal
West Fork Mill Creek	0.0 to 1	Mill Crk	506440_00	5100205	Carroll	PS						Sediment/Siltation	Hwy/Rd/Brdg Runoff (Non-Constr), Riparian Habitat Loss, Strmbank Mod/Destable., Urban Stormwater
West Hickman Creek	0.0 to 3.0	Hickman Crk	506457_01	5100205	Jessamine	PS	PS	PS				Pathogens, Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge, Urban Stormwater
West Hickman Creek	3.0 to 8.6	Hickman Crk	506457_02	5100205	Jessamine	PS						Sediment/Siltation, Org.Enrich. (Sewage)	Urban Stormwater
White Lick Creek	0.0 to 2.8	Paint Lick Crk	506590_00	5100205	Garrard	PS						TSS	Non-Irrig Crop Prod, Specialty Crop Prod
White Oak Creek	0.0 to 2.8	Kentucky River	506613_01	5100205	Garrard	NS						Sediment/Siltation, TDS, Nutrient/Eutroph.	Riparian Habitat Loss, Pasture Grazing, Municipal Pt. Source Dischrge
Wilgreen Lake	169 acres	N/A	505023_00	5100205	Madison		NS					Oxygen - Dissolved, Nutrient/Eutroph.,	Non-Irrig Crop Prod, Septic Tanks/Decentral. Systems Livestock-Grazing/Feed. Op's
Wolf Run	0.0 to 4.1	Town Branch	507029_00	5100205	Fayette	NS	NS	NS				Pathogens, Nutrient /Eutroph.	Channelization, Urban Stormwater
Wooten Creek	0.0 to 3.0	Cutshin Crk	516483_00	5100202	Leslie	NS						Unknown	Unknown

### Salt-Licking Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Con- sumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources

Licking River Basin													
Allison Creek	0.0 to 4.9	Fleming Creek	485886_00	5100101	Fleming	NS	NS					Phosphorus, Total	Animal Feeding Op (NPS)
Banklick Creek	0.0 to 3.5	Licking River	486315_01	5100101	Kenton	PS		NS				Sediment/Silt, Pathogens, Org. Enrich (Sewage)	Hwys/Rd/Brdgs (New Constr), Municipal Pt. Source Dischrge, Urban Stormwater/Runoff
Banklick Creek	3.5 to 8.2	Licking River	486315_02	5100101	Kenton		NS	NS				Sed/Silt, Pathogens, Nut/Eutroph, Org.Enrich (Sewage)	Septic Tanks/Decentral. Systems Agriculture
Banklick Creek	8.2 to 19.2	Licking River	486315_03	5100101	Kenton		PS	PS				Pathogens, Nutr/Eutroph, Org.Enrich/Sewage	Septic Tanks/Decentral. Systems Agriculture
Beaver Creek	10.0 to 14.4	Licking River	510489_00	5100101	Menifee	PS						Sediment/Siltation	Pasture Grazing, Non-Irrig Crop Prod
Blacks Creek	0.0 to 3.4	Hinkston Crk	487421_00	5100102	Bourbon	PS						Sediment/Siltation, Nutrient/Eutroph.	Livestock-Grazing/Feed. Op's
Blackwater Creek	3.8 to 11.7	Licking River	510765_01	5100101	Morgan			NS				Pathogens	Unknown
Boone Creek	0.0 to 5.0	Hinkston Crk	487686_00	5100102	Bourbon	PS						Sediment/Siltation, Nutrient/Eutroph.	Livestock-Grazing/Feed. Op's
Broke Leg Creek	0.0 to 1.0	Blackwater Crk	510936_01	5100101	Morgan	PS						Unknown	Unknown, Habitat Mod-not Hydro



### Salt-Licking Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Broke Leg Creek	1.0 to 4.4	Blackwater Crk	510936_02	5100101	Morgan	PS						Sediment/Siltation	Hwy/Rd/Brdg Runoff (Non-Constr), Upstream Source, Runoff fr. Forest/Grassland/Parkland
Brushy Fork	0.0 to 5.8	South Fk Grassy Crk	488131_01	5100101	Pendleton	PS						Sediment/Siltation	Strmbank Mod/Destable., Crop Prod, Agriculture, Forest/Grassland/Parkland Runoff
Burning Fork	0.0 to 3.3	Licking River	488450_01	5100101	Magoffin	NS		NS				Sediment/Siltation, Pathogens	Hwy/Rd/Brdg Runoff (Non-Constr), Riparian Habitat Loss, Municipal Pt. Source Dischrge, Unknown
Caney Creek	0.0 to 4.2	Licking River	511201_00	5100101	Morgan	PS						Sediment/Siltation, Turbidity	Impacts fr. Aband. Mine Lands, Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable, Subsurface/Surface Mining
Caskey Fork	0.0 to 2.3	Grassy Fork	489059_01	5100101	Morgan	NS						Unknown	Land Clearance, Unknown
Cave Run Lake	8270 acres	N/A	511277_00	5100101	Rowan		PS	PS	PS	PS		Methyl mercury, pH	Atmospheric Depositions-Toxics, Unknown, Upstream Source
Christy Creek	0.0 to 4.3	Triplett Crk	511363_00	5100101	Rowan	PS						Sediment/Siltation, Unknown	Non-Irrig Crop Prod
Clarks Run	0.0 to 2.1	North Fork Licking River	489555_01	5100101	Mason	PS						Sediment/Siltation	Crop Prod

### Salt-Licking Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Coffee Creek	0.0 to 4.1	Williams Crk	489772_01	5100101	Morgan	NS						Sediment/Siltation	Channel Erosion/Incision fr. Upstream Hydro, Channelization, Strmbank Mod/Destable., Agriculture
Cooper Run	0.0 to 10.1	Stoner Crk	490062_00	5100102	Bourbon	NS						Nutrient/Eutroph.	Livestock-Grazing/Feed. Op's
Craintown Branch	0.0 to 3.6	Fleming Creek	490277_00	5100101	Fleming	PS	PS					Phosphorus (Total)	Animal Feeding Operations (NPS)
Crane Creek	0.0 to 2.9	Fox Creek	511622_01	5100101	Fleming	PS						Sediment/Siltation	Riparian Habitat Loss, Sand/Gravel/Rock Mining Quarries, Strmbank Mod/Destable., Crop Prod , Agriculture
Crooked Creek	0.0 to 9.1	Licking River	490377_00	5100101	Nicholas			NS				Pathogens	Unknown
Doe Run Lake	51 acres	N/A	CLN082_00	5100101	Kenton		PS					Oxygen - Dissolved, Nutrient/Eutroph., Diss. Gas Supersat.	Unknown, Upstream Source
Doty Branch	0.0 to 2.3	Fleming Crk	492236-12.8_01	5100101	Fleming	NS						Nutrient/Eutroph.	Animal Feed. Op.'s, Agriculture
Doty Branch	2.3 to 4.0	Fleming Crk	Not yet assigned	5100101	Fleming	NS						Org.Enrich. (Sewage)	Animal Feed. Op.'s, Agriculture
Dry Creek	0.0 to 0.5	Triplett Crk	511917_01	5100101	Rowan	PS						Sediment/Siltation, Org.Enrich. (Sewage)	Hwy/Rd/Brdg Runoff (Non-Constr), Urban Runoff/Storm Sewers

### Salt-Licking Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Elk Fork	0.0 to 4.9	Licking River	512038_01	5100101	Morgan	PS						Sediment/Siltation	Impacts fr. Hydrostructure Flow Reg/Mod, Agriculture, Habitat Mod-not Hydro, Silviculture
Elk Fork	4.9 to 10.5	Licking River	512038_02	5100101	Morgan	NS						Sediment/Siltation, Turbidity	Impacts fr. Aband. Mine Lands, Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable., Subsurface Mining, Surface Mining
Elk Fork	12.6 to 14.7	Licking River	512038_03	5100101	Morgan	PS						Sediment/Siltation, Turbidity	Impacts fr. Aband. Mine Lands, Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable., Subsurface Mining, Surface Mining
Fannins Fork	1.5 to 3.4	Elk Fork	491979_01	5100101	Morgan	PS						Sediment/Siltation	Crop Prod
Flat Creek	0.0 to 0.9	Licking River	492182_00	5100101	Bath			NS				Pathogens	Unknown
Flat Run	0.0 to 2.2	Stoner Crk	492217_00	5100102	Bourbon	NS						Sediment/Siltation, Nutrient/Eutroph.	Livestock-Grazing/Feed. Op's
Fleming Creek	0.0 to 12.8	Licking River	492236_01	5100101	Fleming	PS	PS					Nutrient/Eutroph., Phosphorus (Total)	Animal Feed. Op.'s
Fleming Creek	12.8 to 16.0	Licking River	492236_02	5100101	Fleming	PS						Nutrient/Eutroph.	Animal Feed. Op.'s, Agriculture
Fleming Creek	20.8 to 39.4	Licking River	492236_04	5100101	Fleming	NS	NS					Nutr/Eutroph, Org.Enrich (Sewage), Phosphorus,Total	Animal Feed. Op.'s, Urban Runoff/Storm Sewers

### Salt-Licking Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Fox Creek	0.0 to 10.1	Licking River	512230_01	5100101	Fleming	PS	PS	PS	PS			Sediment/Siltation, Pathogens	Grazing-Riparian Zones, Unknown, Nat'l Sources
Fox Creek	20.1 to 22.7	Licking River	512230_02	5100101	Fleming	NS						Sediment/Siltation, Nutrient/Eutroph.	
Grassy Creek	4.6 to 10.0	Licking River	512382_01	5100101	Morgan	PS						Sediment/Siltation, Nutrient/Eutroph.	Unknown, Crop Prod
Hinkston Creek	20.8 to 31.0	South Fork Licking River	494298_03	5100102	Bourbon			PS				Pathogens	Livestock-Grazing/Feed. Op's
Hinkston Creek	41.8 to 49.1	South Fork Licking River	494298_05	5100102	Bourbon	PS		NS				Sediment/Siltation, Pathogens	Agriculture
Hinkston Creek	51.5 to 65.9	South Fork Licking River	494298_06	5100102	Montgomery	NS						Sediment/Siltation, Nutrient/Eutroph.	Grazing-Riparian Zones
Houston Creek	0.0 to 9.0	Stoner Crk	494646_01	5100102	Bourbon			NS				Pathogens	Unknown
Houston Creek	9.0 to 12.7	Stoner Crk	494646_02	5100102	Bourbon	PS						Nutrient/Eutroph.	Golf Courses
Johnson Creek	0.0 to 3.1	Licking River	495397_00	5100101	Magoffin			NS				Pathogens	Unknown
Johnson Creek	0.0 to 3.5	Licking River	495400_01	5100101	Robertson			NS				Pathogens	Unknown
Kincaid Lake	183 acres	N/A	CLN045_00	5100101	Pendleton		PS					Oxygen - Diss, Nutrient/Eutroph., Diss. Gas Supersat.	Agriculture
Lees Creek	0.0 to 4.3	Licking River	496181_01	5100101	Mason	PS						Sediment/Siltation, Nutrient/Eutroph.	Grazing-Riparian Zones, Crop Prod

### Salt-Licking Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Con-sumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Left Fork White Oak Creek	0.0 to 1.8	Licking River	496271_00	5100101	Morgan	PS						Sediment/Siltation, Turbidity	Impacts fr. Aband. Mine Lands, Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable., Subsurface Mining, Surface Mining
Lick Creek	0.0 to 2.1	Licking River	496483_01	5100101	Magoffin	PS						Sediment/Siltation	Grazing-Riparian Zones, Riparian Hab Loss, Livestock-Grazing/Feed. Op's, Crop Prod , Wet Weather Dischrge., Impervious Surface/Parking Lot, Manure Runoff, Rural
Licking River	0.0 to 4.8	Ohio River	513416_01	5100101	Campbell			PS				Pathogens	SSOs, Urban Runoff/Storm Sewers
Licking River	4.8 to 14.9	Ohio River	513416_02	5100101	Campbell			PS				Pathogens	Unknown
Licking River	31.0 to 37.6	Ohio River	513416_04	5100101	Kenton			PS				Pathogens	Unknown
Licking River	174.4 to 180.8	Ohio River	513416_10	5100101	Rowan				PS			Pathogens	Unknown
Licking River	224.3 to 241.3	Ohio River	513416_11	5100101	Morgan			NS	PS			Pathogens	Unknown
Licking River	265.0 to 271.6	Ohio River	513416_12	5100101	Magoffin	PS						Sediment/Siltation, Turbidity, Nutrient/Eutroph., Org.Enrich. (Sewage)	Grazing Riparian Zones, Riparian Habitat Loss, Silviculture, Strmbank Mod/Destabal., Non-Point Source Runoff, Urban Runoff/Storm Sewers

### Salt-Licking Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Con- sumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Licking River	271.6 to 294.1	Ohio River	513416_13	5100101	Magoffin	NS						Sediment/Siltation	Resource Extraction
Licking River	294.1 to 302.4	Ohio River	513416_14	5100101	Magoffin	NS						Sediment/Siltation	Surface Mining
Little Beaver Creek	0.0 to 3.3	Beaver Crk	496612_01	5100101	Harrison	PS						Sediment/Siltation, Nutrient/Eutroph.	Grazing-Riparian Zones, Hwy/Rd/Brdg Runoff (Non-Constr), Crop Prod
Little Stoner Creek	0.0 to 5.0	Stoner Crk	496870_00	5100102	Clark			NS				Pathogens	Unknown
Locust Creek	0.0 to 11.8	Licking River	496939_01	5100101	Fleming	PS						Sediment/Siltation, Nutrient/Eutroph.	Grazing-Riparian Zones, Crop Prod
Logan Run	0.0 to 2.3	Fleming Creek	496986_00	5100101	Fleming	NS						Nutrients/Eutroph.	Agriculture
Mash Fork	0.0 to 3.0	Horsepen Fork	497650_01	5100101	Magoffin	PS						Unknown	Unknown, Crop Prod
Middle Fork Licking River	0.0 to 2.5	Licking River	498128_00	5100101	Magoffin			NS				Pathogens	Septic Tanks/Decentral. Systems Agriculture
Mill Creek	0.0 to 21.6	South Fork Licking River	498263_01	5100102	Harrison	PS						Sediment/Siltation, Nutrient/Eutroph.	Land Clearance (Devel./Redevelop.), Livestock-Grazing/Feed. Op's, Crop Prod
North Fork Licking River	18.5 to 52.5	Licking River	499554_02	5100101	Bracken	NS		NS				Sediment/Siltation, Pathogens	Agriculture
North Fork Licking River	8.4 to 12	Licking River	514292_01	5100101	Morgan			NS				Pathogens	Unknown

### Salt-Licking Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
North Fork Licking River	12.0 to 13.1	Licking River	514292_02	5100101	Morgan	PS						Sediment/Siltation	Hwy/Rd/Brdg Runoff (Non-Constr), Upstream Source, Intro. Non-Native Organisms (Accident/Intent.)
Oldfield Fork	0.0 to 3.6	Grassy Creek	499901_01	5100101	Morgan	NS						Sediment/Siltation	Crop Prod
Phillips Creek	0.0 to 5.3	Licking River	500540_00	5100101	Campbell			NS				Pathogens	Unknown
Prickly Ash Creek	0.0 to 3.1	Slate Crk	514770_00	5100101	Bath	NS						Nutrient/Eutroph.	Agriculture
Puncheon Camp Creek	0.0 to 1.1	Licking River	501442_00	5100101	Magoffin			NS				Pathogens	Unknown
Rock Fork	0.0 to 4.0	N Fork Triplett Crk	515026_01	5100101	Rowan	PS						Sediment/Siltation, Nutrient/Eutroph.	Dredging , Crop Prod
Salt Lick Creek	3.0 to 8.0	Licking River	515191_01	5100101	Bath	PS						Sediment/Siltation	Non-Irrig Crop Prod, Range. Grazing
Scrubgrass Creek	0.0 to 1.6	Cassidy Crk	503123_00	5100101	Nicholas	NS						Unknown	Unknown
Slate Creek	0.0 to 13.6	Licking River	515470_01	5100101	Bath			PS				Pathogens	Unknown
Spruce Creek	0.0 to 1.7	Slate Crk	504170_01	5100101	Montgomery	PS						Sediment/Siltation	Grazing-Riparian Zones
Stoner Creek	0.0 to 5.5	South Fork Licking River	504482_01	5100102	Bourbon			PS				Pathogens	Unknown
Stoner Creek	5.5 to 15.0	South Fork Licking River	504482_02	5100102	Bourbon			NS				Pathogens	Unknown
Stony Creek	0.0 to 3.0	Licking River	504500_00	5100101	Nicholas	NS						Unknown	Unknown

### Salt-Licking Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Straight Creek	0.0 to 1.8	Elk Fork	504549_00	5100101	Morgan	NS						Sediment/Siltation, Turbidity	Impacts fr. Aband. Mine Lands, Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable., Subsurface Mining, Surface Mining
Strodes Creek	2.7 to 19.3	Stoner Crk	504593_00	5100102	Bourbon	PS	PS	NS				Sediment/Siltation, Pathogens, Nutrient/Eutroph., Org.Enrich. (Sewage)	Hwys/Rd/Brdgs Infrastructure (New Construction), Municipal Pt. Source Dischrge, Agriculture, Habitat Mod-not Hydro, Urban Stormwater
Threemile Creek	0.1 to 4.7	Licking River	505251_00	5100101	Campbell	NS		NS				Pathogens, Org.Enrich. (Sewage)	SSO/Collect Sys Failure, Unknown
Townsend Creek	0.0 to 4.9	S Fk Licking River	505401_01	5100102	Bourbon			NS				Pathogens	Unknown
Trace Fork	0.0 to 3.1	Licking River	505437_00	5100101	Magoffin	PS						Sediment/Siltation, TDS, Turbidity	Impacts fr. Aband. Mine Lands, Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable., Subsurface Mining, Surface Mining



**Salt-Licking Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Triplett Creek	5.9 to 12.3	Licking River	516023_01	5100101	Rowan	PS	PS	NS	PS			Sediment/Siltation, Pathogens, Nutrient/Eutroph., Org.Enrich. (Sewage)	Hwys/Rd/Brdgs Infrastructure, Impacts fr. Hydrostructure Flow, Municipal Pt. Source Dischrge, Unknown, Agriculture, Urban Runoff/Storm Sewers
UT to Mill Creek	0.0 to 4	Mill Crk	498265-7.0_01	5100101	Fleming	NS						Sediment/Siltation, Total Kjeldahl Nitrogen, Phosphorus (Total)	Dairies, Hwy/Rd/Brdg Runoff (Non-Constr), Riparian Habitat Loss, Livestock-Grazing/Feed. Op's, Manure Runoff, Intro. Non-Native Org's (Accident/Intent.)
UT to UT to Lees Creek	0.0 to 1.6	UT to Lees Crk	496181-4.3_01	5100101	Mason	NS						Sediment/Siltation, Total Kjeldahl Nitrogen, Nitrate/Nitrite as N	Grazing-Riparian Zones, Riparian Habitat Loss, Livestock-Grazing/Feed. Op's, Manure Runoff, Intro. Non-Native Organisms (Accident/Intent.)
Williams Creek	0.0 to 5.3	Elk Fork	506817_00	5100101	Morgan			NS				Pathogens	Unknown
<b>Ohio River Tributaries</b>													
Allen Fork	2.0 to 4.6	Woolper Crk	485869_00	5090203	Boone	PS						Sediment/Siltation, Nutrient/Eutroph.	Habitat Mod-not Hydro, Urban Stormwater

### Salt-Licking Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Big Sugar Creek	0.7 to 2.0	Ohio River	487280_01	5090203	Gallatin	PS						Sediment/Siltation, Org.Enrich. (Sewage)	Hwy/Rd/Brdg Runoff (Non-Construction), Land Clearance (Devel./Redevelop.), Crop Prod
Bracken Creek	2.8 to 11.0	Ohio River	487783_01	5090201	Bracken	PS						Nutrient/Eutroph.	Animal Feed. Op.'s, Grazing-Riparian Zones, Crop Prod
Briery Branch	0.2 to 2.2	Ohio River	487905_01	5090201	Lewis	PS						Nutrient/Eutroph.	Grazing-Riparian Zones, Crop Prod , Rural (Residential Areas)
Brush Creek	0.0 to 1.6	Twelve Mile Creek	488069_00	5090201	Campbell			NS				Pathogens	Municipal Point Sources
Cabin Creek	3.6 to 11.3	Ohio River	488566_00	5090201	Mason	NS						Sediment/Siltation	Agriculture, Habitat Mod-not Hydro
Clary Branch	0.0 to 1.9	Salt Lick Crk	489562_01	5090201	Lewis							Sediment/Siltation	Dredging , Hwy /Rd/Brdg Runoff (Nonconstr), Runoff fr. Forest/Grassland /Parkland
Dry Creek	0.2 to 7.0	Ohio River	491168_00	5090203	Boone	PS						Nutr/Eutroph, Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge, Agriculture, Urban Stormwater
Dry Creek	1.1 to 3.0	Ohio River	491178_00	5090203	Gallatin	PS						Sediment/Siltation, Nutrient/Eutroph., Org.Enrich. (Sewage)	Hwy/Rd/Brdg Runoff (Non-Constr), Livestock-Grazing/Feed. Op's, Crop Prod

### Salt-Licking Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Fourmile Creek	0.2 to 8.5	Ohio River	492390_01	5090201	Campbell			NS				Pathogens	Municipal Pt. Source Dischrge, SSO/Collect Sys Failure
Goose Creek	0.0 to 1.9	Locust Crk	493006_00	5090201	Bracken	PS						Unknown	Surface Mining, Natr'l Sources
Gunpowder Creek	0.0 to 15.4	Ohio River	493502_01	5090203	Boone	NS						Sediment/Siltation	Land Clearance (Devel./Redevelop.)
Gunpowder Creek	15.4 to 17.1	Ohio River	493502_02	5090203	Boone	NS						Sediment/Siltation, Nutrient /Eutroph., Org.Enrich. (Sewage)	Hwy/Rd/Brdg Runoff , Riparian Habitat Loss, Land Clearance, Strmbank Mod/Destable., Agriculture, Urban Stormwater
Gunpowder Creek	18.9 to 21.6	Ohio River	493502_03	5090203	Boone	PS						Unknown	Urban Stormwater
Laurel Fork	5.8 to 15.9	Kinniconick Crk	513259_01	5090201	Lewis	PS						Sediment/Siltation, Turbidity, Nutrient /Eutroph., Org.Enrich. (Sewage)	Dredging , Livestock-Grazing/Feed. Op's, Crop Prod , Silviculture, Dischrge./Unsewered Areas
Locust Creek	0.0 to 4.1	Ohio River	496941_01	5090201	Bracken			NS				Pathogens	Unknown
Locust Creek	4.1 to 12.2	Ohio River	496941_02	5090201	Bracken	NS						Unknown	Unknown
Montgomery Creek	0.0 to 6.5	Kinniconick Crk	498512_01	5090201	Lewis	PS						Sediment/Siltation, Nutrient/Eutroph., Org.Enrich. (Sewage)	Dredging , Grazing-Riparian Zones, Land Clearance (Devel./Redevelop.), Crop Prod , Sewage Dischrge./Unsewered Areas

### Salt-Licking Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Salt Lick Creek	0.2 to 7.2	Ohio River	502828_01	5090201	Lewis	PS						Sediment/Siltation,	Hwy/Rd/Brdg Runoff (Non-Constr), Riparian Habitat Loss, Impervious Surface/Parking Lot, Intro. Non-Native Organisms (Accident/Intent.), Runoff fr. Forest/Grassland /Parkland
Snag Creek	0.5 to 5.5	Ohio River	503833_00	5090201	Bracken			NS				Pathogens	Unknown
South Fork Gunpowder Crk	0.0 to 2.0	Gunpowder Creek	503926_01	5090203	Boone	NS						Sediment/Siltation, Turbidity, Nutrient/Eutroph., Org.Enrich. (Sewage)	Package Plant/Other Small Dischrge., Post-Devel. Erosion/Sediment., Land Clearance (Devel./Redevelop.), Agriculture
South Fork Gunpowder Crk	4.1 to 6.8	Gunpowder Creek	503926_02	5090203	Boone			NS				Pathogens	Unknown
Tenmile Creek	0.1 to 1.2	Ohio River	505071_01	5090201	Campbell	PS						Sediment/Siltation, Nutrient/Eutroph.	Land Clearance, Livestock-Grazing/Feed. Op's, Crop Prod
Trace Creek	0.2 to 4.6	Kinniconick Crk	505424_01	5090201	Lewis	PS						Sediment/Siltation, Nutrient/Eutroph., Org.Enrich. (Sewage)	Dredging, Grazing/Riparian/Shoreline, Illegal Waste Dumps, Crop Prod, Silviculture, Sewage Dischrge/Unsewered
Woolper Creek	2.8 to 7.2	Ohio River	485711_01	5090203	Boone			NS				Pathogens	Agriculture

### Salt-Licking Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Woolper Creek	11.9 to 14.0	Ohio River	485711_02	5090203	Boone	NS		NS				Pathogens, TSS, Nutrient /Eutroph., Org.Enrich. (Sewage), Unknown	Illegal/Inappropriate Waste Disposal, Impacts fr. Hydrostructure Flow Reg/Mod, Urban Runoff/Storm Sewers

Salt River Basin													
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Beargrass Creek	0.5 to 1.8	Ohio River	486584_00	5140101	Jefferson		NS					Cadmium, Org.Enrich. (Sewage)	Landfills, Municipal Pt. Source Dischrge, CSO/SSO/Collect Sys Failure, Urban Stormwater
Beech Creek	4.6 to 19.6	Salt River	486700_01	5140102	Shelby			NS	NS			Pathogens	Unknown
Beech Fork	39.5 to 50.4	Rolling Fork	486703_02	5140103	Nelson			NS				Pathogens	Agriculture
Big South Fork	0.0 to 12.4	Rolling Fork	487258_01	5140103	Marion			NS				Pathogens	Grazing-Riparian Zones
Blue Spring Ditch	0.0 to 2.1	Northern Ditch	501047-1.9-15.0-5.1_01	5140102	Jefferson			NS				Pathogens	Illegal/Inappropriate Waste Disposal, Municipal Pt. Source Dischrge, Urban Runoff/Storm Sewers
Brashears Creek	0.0 to 13.0	Salt River	487840_01	5140102	Spencer			NS				Pathogens	Unknown
Brooks Run	0.0 to 2.5	Floyds Fork	487968_01	5140101	Bullitt		NS					Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge

**Salt-Licking Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Brooks Run	2.5 to 4.1	Floyds Fork	487968_02	5140102	Bullitt	PS	PS	PS				Pathogens, Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge
Brooks Run	4.1 to 6.1	Floyds Fork	487968_03	5140102	Bullitt	PS	PS	NS				Pathogens, Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge
Bullitt Lick Creek	0.0 to 2.3	Salt River	488374_00	5140102	Bullitt	PS						Sediment/Siltation, Turbidity	Riparian Habitat Loss, Post-Devel. Erosion/Sediment., Land Clearance
Cartwright Creek	0.0 to 6.6	Beech Fork	489030_01	5140103	Washington	PS						Sediment/Siltation, Pathogens, Nutrient/Eutroph.,	Riparian Habitat Loss, Agriculture
Cartwright Creek	6.6 to 12.6	Beech Fork	489030_02	5140103	Washington	PS						Unknown	Unknown
Chaplin River	0.0 to 23.1	Beech Fork	489350_01	5140103	Nelson			NS				Pathogens	Unknown
Chaplin River	63.0 to 69.7	Beech Fork	489350_04	5140103	Mercer	NS						Unknown	Unknown
Cheese Lick	0.7 to 4.4	Sulphur Crk	489380_01	5140103	Anderson	PS						Sediment/Siltation, Nutrient/Eutroph.	Grazing-Riparian Zones, Riparian Habitat Loss, Strmbank Mod/Destable.
Chenoweth Run	0.0 to 5.2	Floyds Fork	489391_01	5140102	Jefferson	PS	PS	NS				Pathogens	Landfills, Municipal Pt. Source Dischrge, Package Plant/Other Small Dischrge., Livestock-Grazing/Feed. Op's, Urban Stormwater

### Salt-Licking Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Chenoweth Run	5.2 to 9.2	Floyds Fork	489391_02	5140102	Jefferson			NS				Pathogens	Municipal Pt. Source Dischrge, Stormwater, Livestock
Chickasaw Park Pond	1.5 acres	N/A	DOW015_00	5140101	Jefferson					PS		Methyl mercury	Unknown
Clear Creek	0.0 to 4.4	Rolling Fork	489613_00	5140103	Hardin	NS						Unknown	Unknown
Clear Creek	0.0 to 11.0	Bullskin Crk	489615_00	5140102	Shelby	NS	NS					Sediment/Siltation, Org.Enrich. (Sewage)	Livestock-Grazing/Feed. Op's, Crop Prod , Urban Stormwater
Cox Creek	0.0 to 4.7	Salt River	490220_01	5140102	Bullitt			PS				Pathogens	Unknown
Cox Creek	11.2 to 15.5	Salt River	490220_02	5140102	Nelson	PS						Nutrient/Eutroph.,	Confined Animal Feed. Op.'s (CAFOS)
Crooked Creek	5.6 to 12.8	Rolling Fork	490379_00	5140103	Bullitt	NS						Unknown	Unknown
Currys Fork	0.0 to 4.8	Floyds Fork	490506_01	5140102	Oldham	PS		NS				Sediment/Siltation Pathogens	Hwy/Rd/Brdg Runoff (Non-Constr), Municipal (Urbanized High Density Areas), Package Plant/Other Small Dischrge.
Doe Run	4.1 to 7.9	Ohio River	490968_00	5140104	Meade			NS				Pathogens	Unknown
East Fork Beech Fork	0.0 to 1.9	Beech Fork	491439_01	5140103	Washington	PS						Unknown	Unknown
Fern Creek	0.0 to 1.3	Northern Ditch	492042_01	5140102	Jefferson		PS	NS				Ammonia (Un-ion), Pathogens, Nutrient/Eutroph., Org.Enrich. (Sewage)	Landfills, Municipal Pt. Source Dischrge, Urban Stormwater

### Salt-Licking Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Fern Creek	1.3 to 4.4	Northern Ditch	492042_02	5140102	Jefferson		NS	NS				Pathogens, Org.Enrich. (Sewage)	Illegal/Inappropriate Waste Disposal, Landfills, Municipal Pt. Source Dischrge, Urban Runoff/Storm Sewers
Fern Creek	4.4 to 5.9	Northern Ditch	492042_03	5140102	Jefferson		PS	NS				Pathogens, Org.Enrich. (Sewage)	Illegal/Inappropriate Waste Disposal, Municipal Pt. Source Dischrge, Urban Runoff/Storm Sewers
Floyds Fork	0.0 to 11.6	Salt River	492278_01	5140102	Bullitt			NS				Pathogens	Unknown
Floyds Fork	11.6 to 24.2	Salt River	492278_02	5140102	Jefferson			NS				Pathogens	Municipal Pt. Source Dischrge, Package Plant/Other Small Dischrge, Urban Runoff/Storm Sewers
Floyds Fork	24.2 to 34.1	Salt River	492278_03	5140103	Jefferson	NS		PS				Pathogens Sediment/Siltation	Municipal Point Source Discharges; Package Plant or Other Permitted Small Flows Discharges; Agriculture; Urban Runoff/Storm Sewers; Site Clearance (Land Development or Redevelopment)
Floyds Fork	34.1 to 61.9	Salt River	492278_04	5140102	Shelby	PS						Sediment/Siltation	Municipal (Urbanized High Density Areas), Wet Weather Dischrge (Pt and Non-Pt)
Glens Creek	0.0 to 4.8	Chaplin R.	492904_01	5140103	Washington	PS						Sediment/Siltation	Strmbank Mod/Destable.



### Salt-Licking Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Goose Creek	0.3 to 3.6	Ohio River	493014_01	5140101	Jefferson		PS	NS				Cadmium, Pathogens, Org.Enrich. (Sewage)	Illegal/Inapp. Waste Disposal, Indus. Pt. Source Dischrge, Municipal Pt. Source Dischrge, Urban Runoff/Storm Sewers
Goose Creek	3.6 to 13.0	Ohio River	493014_02	5140101	Jefferson		PS	NS				Cadmium, Pathogens, Org.Enrich. (Sewage)	Unknown
Guist Creek	15.4 to 27.6	Brashears Crk	493463_02	5140102	Shelby	PS	PS					Sediment/Siltation, Org.Enrich. (Sewage)	Upstream Impound., Livestock-Grazing/Feed. Op's, Crop Prod , Urban Stormwater
Guist Creek Lake	317 acres	N/A	493464_00	5140102	Shelby		NS			PS	PS	Manganese, Methyl mercury, Diss. Oxygen, Nutrient/ Eutroph., Org.Enrich (Sewage), Diss.Gas Supersat.	Atmospheric Depositions-Toxics, Septic Tanks/Decentral. Systems, Unknown, Natrl Sources, Agriculture, Rural
Hardins Creek	0.0 to 5.0	Sinking Crk	493728_01	5140104	Breckinridge	NS						Sediment/Siltation, Nutrient/Eutroph.	Pasture Grazing, Non-Irrig Crop Prod
Hardins Creek	5.2 to 11.4	Sinking Crk	493728_02	5140104	Breckinridge	PS						Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge

**Salt-Licking Basin Management Unit 303(d) List**

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Con- sumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Hardins Creek	13.3 to 22.9	Beech Fork	493729_02	5140103	Marion	PS						Nitrate/Nitrite as N, Phosphorus (Total)	Grazing-Riparian Zones, Riparian Habitat Loss, Manure Runoff, Intro. Non-Native Organisms (Accident/Intent.)
Hardy Creek	0.0 to 1.4	Little Kentucky River	493737_01	5140101	Trimble	NS						Nutrient/Eutroph., Org.Enrich. (Sewage)	Grazing-Riparian Zones, Hwy/Rd/Brdg Runoff (Non-Constr), Riparian Habitat Loss, Strmbank Mod/Destable., Crop Prod , Urban Runoff/Storm Sewers
Hardy Creek	1.6 to 5.6	Little Kentucky River	493737_02	5140101	Trimble	PS						Unknown	Dredging , Unknown
Harrods Creek	0.0 to 3.2	Ohio River	493826_01	5140101	Oldham			PS				Pathogens	Hwy/Rd/Brdg Runoff (Non-Constr), Package Plant/Other Small Dischrge.
Harrods Creek	3.2 to 33.3	Ohio River	493826_02	5140101	Oldham			PS				Pathogens	Hwy/Rd/Brdg Runoff (Non-Constr), Municipal (Urbanized High Density Areas), Package Plant/Other Small Dischrge.
Hayden Creek	0.0 to 1.3	Chaplin River	493903_01	5140103	Mercer	NS						Other	Unknown
Hite Creek	0.0 to 5.5	South Fork Harrods Crk	494393_00	5140101	Jefferson	NS						Unknown	Municipal Pt. Source Dischrge

### Salt-Licking Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Con- sump- tion</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Jeptha Creek	0.0 to 0.7	Guist Crk	495221_00	5140102	Shelby	NS						Sediment/Siltation, Nutrient/Eutroph.	Livestock-Grazing/Feed. Op's, Crop Prod
Jones Creek	0.0 to 3.9	North Rolling Fork	495492_00	5140103	Marion	PS						Unknown	Unknown
Lake Jericho	137 acres	N/A	495230_00	5140101	Henry		NS					Oxygen - Diss, Nutrient/Eutroph., Diss. Gas Supersat.	Livestock-Grazing/Feed. Op's, Crop Prod , Agriculture
Lick Run Creek	0.0 to 3.5	Ohio River	513414_00	5140104	Breckinridge	PS						Sediment/Siltation, Nutrient/Eutroph.	Pasture Grazing, Non-Irrig Crop Prod, Crop Prod
Little Goose Creek	0.0 to 9.2	Goose Crk	496745_00	5140101	Jefferson			PS				Pathogens	Urban Runoff/Storm Sewers
Little Kentucky River	21.0 to 27.0	Ohio River	496778_02	5140101	Henry	PS						Sediment/Siltation, Nutrient/Eutroph.	Livestock-Grazing/Feed. Op's, Crop Prod
Logan Run	0.0 to 2.3	Fleming Creek	496986_00	5100101	Fleming	NS						Nutrient/Eutroph	Agriculture
Long Lick Creek	0.0 to 10.5	Salt River	497124_01	5140102	Bullitt	NS						Sediment/Siltation	Grazing-Riparian Zones, Riparian Habitat Loss, Strmbank Mods., Livestock-Grazing/Feed. Op's, Manure Runoff, Intro. Non-Native Organisms (Accident/Intent.)
Long Run	0.0 to 10.0	Floyds Fork	497142_00	5140102	Jefferson			NS				Pathogens	Landfills, Municipal Pt. Source Dischrge, Livestock-Grazing/Feed. Op's, Urban Stormwater

### Salt-Licking Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
McNeely Lake	51 acres	N/A	497757_00	5140102	Jefferson					PS		Methyl mercury	Air Deposition - Toxics, Unknown
Mellins Branch	0.0 to 1.5	Little Kentucky River	496047_01	5140101	Carroll	PS						Sediment/Siltation, Nutrient/Eutroph.	Grazing-Riparian Zones, Land Clearance (Devel./Redevelop.), Crop Prod
Middle Fk Beargrass Creek	5.8 to 15.3	Beargrass Crk	498112_04	5140101	Jefferson		PS	NS				Cadmium, Pathogens	Illegal/Inappropriate Waste Disposal, SSO/Collect Sys Failure, Urban Runoff/Storm Sewers
Middle Fork Beargrass Creek	0.0 to 2.0	Beargrass Crk	498112_01	5140101	Jefferson		NS	NS				Cadmium, Pathogens, Org.Enrich. (Sewage)	Channelization, SSO/Collect Sys Failure, Urban Runoff/Storm Sewers
Middle Fork Beargrass Creek	2.0 to 2.9	Beargrass Crk	498112_02	5140101	Jefferson		PS	NS				Cadmium, Pathogens	Combined Sewer Overflows, Landfills, Municipal Pt. Source Dischrge, Urban Stormwater
Middle Fork Beargrass Creek	2.9 to 5.8	Beargrass Crk	498112_03	5140101	Jefferson		PS	NS				Cadmium, Pathogens	Illegal/Inappropriate Waste Disposal, SSO/Collect Sys Failure, Urban Runoff/Storm Sewers
Mill Creek	0.0 to 11.2	Ohio River	498268_00	5140101	Jefferson		NS	NS				Sediment/Siltation, Pathogens, Org.Enrich. (Sewage)	Illegal/Inappropriate Waste Disposal, Indus. Pt. Source Dischrge, Municipal Pt. Source Dischrge, Urban Runoff/Storm Sewers

### Salt-Licking Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Con- sump- tion</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Mill Creek Cutoff	0.0 to 6.7	Ohio River	498275_01	5140101	Jefferson			NS				Pathogens	Illegal/Inappropriate Waste Disposal, Municipal Pt. Source Dischrge, Urban Runoff/Storm Sewers
Muddy Fork Beargrass Creek	0.0 to 6.9	Beargrass Crk	499042_00	5140101	Jefferson			NS				Pathogens	Landfills, Municipal Pt. Source Dischrge, Urban Stormwater
Northern Ditch	0.0 to 7.3	Southern Ditch	501047-1.9-15.0_01	5140102	Jefferson		PS	NS				Ammonia (Un-ionized), Pathogens, Org.Enrich. (Sewage)	Illegal/Inappropriate Waste Disposal, Municipal Pt. Source Dischrge, Urban Runoff/Storm Sewers
Otter Creek	0.0 to 2.9	Rolling Fork	500024_01	5140103	Larue			PS				Pathogens	Unknown
Otter Creek	0.0 to 10.7	Ohio River	500026_00	5140104	Meade			PS				Pathogens	Landfills, Municipal Pt. Source Dischrge, Livestock-Grazing/Feed. Op's, Urban Stormwater
Pennsylvania Run	0.0 to 3.3	Floyds Fork	500387_01	5140102	Jefferson	NS		NS				Sediment/Siltation, Pathogens	Dredging, Illegal Waste Dumps, Rip Hab Loss, Mun. Pt. Source Dischrge, Strmbank Mod /Destabal, Upstream Impound, Urban Runoff/Storm Sewers, Runoff/ Forest/Grass/Park

### Salt-Licking Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Pleasant Run	4.2 to 6.9	Beech Fork	500907_01	5140103	Washington	PS						Sediment/Siltation, Nutrient/Eutroph.	Grazing in Riparian, Imp fr Hydrostructure Flow Reg/Mod, Riparian Habitat Loss, Strmbank Mod/Destab, Manure Runoff
Plum Creek	0.0 to 17.8	Salt River	500965_01	5140102	Spencer	NS						Sediment/Siltation, Nutrient/Eutroph.	Land Clearance, Livestock-Grazing/Feed. Op's, Crop Prod , Agriculture
Pond Creek	0.0 to 1.5	Ohio River	501047_00	5140101	Oldham	PS						Chlorine, Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge
Pond Creek/Southern Ditch	5.1 to 8.1	Salt River	501046_01	5140102	Jefferson	NS	NS	NS				Ammonia (Un-ion.), Pathogens, Org.Enrich. (Sewage)	Septic Tanks/Decentral. Systems Package Plant/Other Small Dischrge., Urban Stormwater
Pond Creek/Southern Ditch	14.7 to 16.1	Salt River	501046_02	5140102	Jefferson			NS				Pathogens	Urban Stormwater
Pope Lick Creek	2.0 to 5.2	Floyds Fork	501089_00	5140102	Jefferson			NS				Pathogens	Landfills, Municipal Pt. Source Dischrge, Urban Stormwater

### Salt-Licking Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Con- sumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Road Run	0.0 to 7.1	Cartwright Crk	502031_01	5140103	Washington	PS						Phosphorus (Total)	Hydrostructure Flow Reg/Mod, Riparian Habitat Loss, Municipal Pt. Source Dischrge, Strmbank Mod/Destable., Imperv. Surface/Parking Lot, Urban Runoff/Storm Sewers
Rolling Fork	0.0 to 40.7	Salt River	502293_01	5140103	Larue			NS				Pathogens	Unknown
Salt River	11.9 to 26.2	Ohio River	502830_01	5140102	Bullitt			NS		PS		Methyl mercury, Pathogens	Unknown
Salt River	78.0 to 89.0	Ohio River	502830_05	5140102	Anderson					NS		Methyl mercury	Atmospheric Depositions-Toxics, Unknown
Shelby Lake	17 acres	N/A	503322_00	5140102	Shelby		PS					Nutrient/Eutroph.	Internal Nutrient Recycling, Agriculture
Short Creek	0.0 to 5.0	Beech Fork	503442_01	5140103	Washington	PS						Unknown	Crop Prod w/Subsurface Drainage, Wetland Alterations, Riparian Habitat Loss, Strmbank Mod/Destable., Unknown, Crop Prod
Sinking Creek	8.7 to 15.4	Ohio River	515434_02	5140104	Breckinridge	PS	PS	NS				Sediment/Siltation, Pathogens, Nutrient/Eutroph., Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge, Agriculture, Habitat Mod-not Hydro
Sinking Creek	15.4 to 39.7	Ohio River	515434_03	5140104	Breckinridge			PS				Pathogens	Municipal Point Sources, Agriculture

### Salt-Licking Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
South Fork Beargrass Creek	0.0 to 2.7	Beargrass Crk	503905_01	5140101	Jefferson		PS	NS				Cadmium, Pathogens, Org.Enrich. (Sewage)	Illegal/Inapprop. Waste Disposal, Municipal Pt. Source Dischrge, Urban Runoff/Storm Sewers
South Fork Beargrass Creek	2.7 to 13.6	Beargrass Crk	503905_02	5140101	Jefferson		PS	NS				Pathogens, Org.Enrich. (Sewage)	Illegal/Inapprop. Waste Disposal, Municipal Pt. Source Dischrge, Urban Runoff/Storm Sewers
Southern Ditch	0.0 to 5.9	Pond Crk	501047-15.0_01	5140102	Jefferson			NS				Pathogens	Illegal/Inappropriate Waste Disposal, Municipal Pt. Source Dischrge, Urban Runoff/Storm Sewers
Sulphur Creek	0.0 to 10.0	Chaplin River	504729_01	5140103	Anderson			PS				Pathogens	Unknown
Taylorville Lake	3050 acres	N/A	CLN141_00	5140102	Spencer		PS			PS		Methyl mercury, Oxygen - Dissolved, Diss. Gas Supersat.	Municipal Pt. Source Dischrge, Unknown, Livestock-Grazing/Feed. Op's, Upstream Source, Agriculture
Thompson Creek	0.0 to 9.2	Chaplin River	505206_01	5140103	Mercer	PS						Sediment/Siltation	Riparian Habitat Loss, Strmbank Mod/Destable.
Tioga Creek	0.0 to 2.5	Abrahams Run	505301_01	5140104	Hardin	PS						Sediment/Siltation	Hwy/Rd/Brdg Runoff (Non-Constr), NPS Pollution fr. Military Base Facilities (Other than Port Facilities), Residential Districts, Upstream Source



### Salt-Licking Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
UT Pond Creek	0.0 to 0.5	Pond Crk	501047-1.5_01	5140101	Oldham	NS						Chlorine, Org.Enrich. (Sewage)	Package Plant/Other Small Dischrge.
UT to Brooks Run	0.0 to 2	Brooks Run	487968-4.3_01	5140102	Bullitt	NS	NS	NS				Pathogens, Org.Enrich. (Sewage)	Package Plant/Other Small Dischrge., Urban Runoff/Storm Sewers
UT to Buffalo Run	0.0 to 1.1	Buffalo Run	488333-1.6_01	5140102	Bullitt	NS						Sediment/Siltation	Channelization, Hwy/Rd/Brdg Runoff (Non-Constr), Riparian Habitat Loss, Imperv. Surface /Parking Lot, Urban Stormwater, Urban Runoff/Storm Sewers
UT to Hammond Creek	0.0 to 1.8	Hammond Crk	493640-5.2_01	5140102	Anderson	NS						Sediment/Siltation, Total Kjeldahl Nitrogen, Nitrate/Nitrite as N	Grazing-Riparian Zones, Impacts fr. Hydrostructure Flow Reg/Mod, Riparian Habitat Loss, Strmbank Mod/Destable., Upstream Impound., Livestock-Feed. Op's, Manure Runoff
UT to Salt River	0.0 to 2.4	Salt River	502830-124.5_01	5140102	Mercer	PS						Sediment/Siltation	Grazing-Riparian Zones, Riparian Habitat Loss, Strmbank Mod/Destable., Livestock-Feed. Op's, Manure Runoff

### Salt-Licking Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
UT to Southern Ditch	0.0 to 2.6	Southern Ditch	DOW014-1.1_01	5140102	Jefferson	NS						Sediment/Siltation	Channelization, Comm. Districts, Hwy/Rd/Brdg Runoff, Riparian Habitat Loss, Package Plant, Impervious Surface, Urban Runoff, Intro Non-Native Org's (Accidental/Intentional)
UT to UT to Guist Creek	0.0 to 2.4	UT to Guist Crk	493463-33.0-1.4_01	5140102	Shelby	PS						Sediment/Siltation	Grazing-Riparian Zones, Riparian Habitat Loss, Livestock-Grazing/Feed. Op's, Manure Runoff
Wetwoods Creek (Slop Ditch)	0.0 to 3.7	Northern Ditch	501047-15.0-3.8_01	5140102	Jefferson		PS	NS				Cadmium, Pathogens	Indus. Pt. Source Dischrge, Municipal Pt. Source Dischrge, Urban Runoff/Storm Sewers
Willisburg Lake	126 acres	N/A	506852_00	5140103	Washington		PS					Diss.Oxygen, Nut./Eutroph., Diss.Gas Supersat.	Unknown, Upstream Source
Wilson Creek	0.0 to 2.2	Rolling Fork	506901_01	5140103	Bullitt	NS						Oxygen - Dissolved, Sediment/Siltation, Total Kjeldahl Nitrogen	Comm. Districts (Indus. Parks), Municipal (Urbanized High Density Areas), Impervious Surface/Parking Lot, Urban Runoff/Storm Sewers
Withrow Creek	0.0 to 3.9	Beech Fork	506974_01	5140103	Nelson	PS						Diss.Oxygen, Nut./Eutroph.	Spill Impacts

**Salt-Licking Basin Management Unit 303(d) List**

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Yellowbank Creek	1.5 to 12.0	Ohio River	516507_01	5140104	Breckinridge	PS						Sediment/Siltation, Nutrient/Eutroph.	Animal Feed. Op.'s, Channel Erosion/Incision fr. Upstream Hydro, Strmbank Mod/Destable., Livestock-Grazing
Younger Creek	0.0 to 4.5	Rolling Fork	507254_01	5140103	Hardin	PS						Sediment/Siltation, Nutrient/Eutroph.	Channelization, Riparian Habitat Loss, Municipal Pt. Source Dischrge, Strmbank Mod/Destable., Livestock-Grazing/Feed. Op's, Silviculture

### Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>

<b>Lower Cumberland River Basin</b>													
Casey Creek	0.0 to 3.6	Little River	489043_00	5130205	Trigg	PS						Sediment/Siltation	Sources Outside State Jurisdiction/Borders
Claylick Creek	2.0 to 4.8	Cumberland River	489591_01	5130205	Crittenden			NS				Pathogens	Agriculture
Donaldson Creek	4.5 to 9.3	Cumberland River	491000_02	5130205	Trigg	PS						Unknown	Dredge Mining
Dry Creek	4.9 to 7.4	Cumberland River	491170_00	5130205	Trigg	NS						Unknown	Unknown
Dry Creek	0.0 to 3.5	Cumberland River	491176_00	5130205	Caldwell	PS						Unknown	Unknown
Dry Fork Creek	5.0 to 5.8	Noah Springs Branch	491216_00	5130206	Christian	NS						Sediment/Siltation	Unknown
Eddy Creek	8.4 to 10.5	Cumberland River	491550_01	5130205	Lyon			NS				Pathogens	Unknown
Eddy Creek	13.3 to 16.1	Cumberland River	491550_03	5130205	Caldwell	PS						Unknown	Unknown
Elk Fork	22.0 to 29.0	Red River	491660_02	5130206	Todd	NS		PS				Pathogens, Org.Enrich. (Sewage), Unknown	Municipal Pt. Source Dischrge
Ferguson Creek	0.0 to 1.1	Cumberland River	492034_01	5130205	Livingston			NS				Pathogens	Unknown
Ferguson Creek	1.1 to 2.2	Cumberland River	492034_02	5130205	Livingston	PS						Unknown	Unknown
Hematite Lake	90 acres	N/A	494017_00	5130205	Trigg		NS					Nutrient/Eutroph.	Natr'l Sources

**Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Hickory Creek	0.0 to 3.8	Cumberland River	494122_00	5130205	Livingston			NS				Pathogens	Unknown
Kenady Creek	0.0 to 3.9	Muddy Fork (Little River)	495638_00	5130205	Trigg	PS						Unknown	Unknown
Little River	20.4 to 23.6	Cumberland River	496838_01	5130205	Trigg	NS						Unknown	Dam Construction (Not Upstream Flood Control Projects), Impacts fr. Hydrostructure Flow, Unknown
Little River	23.6 to 33.1	Cumberland River	496838_02	5130205	Trigg	PS	PS			PS		Iron, Methyl Mercury, Sediment/Siltation, Nutrient/Eutroph.	Unknown
Little River	33.1 to 34.4	Cumberland River	496838_03	5130205	Trigg	NS		PS				Sediment/Siltation, Pathogens, Nutrient/Eutroph.	Agriculture, Habitat Mod-not Hydro
Little River	34.4 to 48.4	Cumberland River	496838_04	5130205	Trigg	PS		PS				Sediment/Siltation, Pathogens, Nutrient/Eutroph., Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge, Unknown, Crop Prod , Agriculture
Little River	48.4 to 61.0	Cumberland River	496838_05	5130205	Christian	NS		NS				Sediment/Siltation, Pathogens, Nutrient/Eutrophication, Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge, Unknown, Crop Prod

### Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Livingston Creek	4.6 to 7.0	Cumberland River	496913_01	5130205	Lyon		NS	NS				Pathogens, Unknown	Unknown
Livingston Creek	11.6 to 15.4	Cumberland River	496913_02	5130205	Lyon	PS						Unknown	Unknown
Long Pond Branch	2.7 to 3.1	Muddy Fork Little River	497133_00	5130205	Trigg	NS						Sediment/Siltation	Unknown
Lower Branch	3.7 to 9.2	North Fork Little River	497263_00	5130205	Christian	PS						Unknown	Unknown
Muddy Fork	14.5 to 26.6	Little River	499043_02	5130205	Trigg	NS						Unknown	Unknown
North Fork Little River	0.0 to 0.3	Little River	499555_01	5130205	Christian	NS	NS	PS				Sediment/Siltation, Pathogens, Nutrient/Eutroph., Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge, Unknown, Agriculture, Urban Runoff/Storm Sewers
North Fork Little River	0.3 to 6.9	Little River	499555_02	5130205	Christian	PS		PS				Sediment/Siltation, Pathogens, Nutrient/Eutroph., Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge, Agriculture
North Fork Little River	6.9 to 11.6	Little River	499555_03	5130205	Christian	NS		NS				Sediment/Siltation, Pathogens, Nutrient /Eutroph., Org.Enrich. (Sewage), Unknown	Municipal Pt. Source Dischrge, Agriculture
North Fork Little River	11.6 to 12.3	Little River	499555_04	5130205	Christian	NS		NS				Pathogens, Unknown	Channelization, Unknown, Habitat Mod-not Hydro

### Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
North Fork Little River	12.3 to 16.2	Little River	499555_05	5130205	Christian			NS				Pathogens	Unknown
Pleasant Grove Creek	0.0 to 2.2	Red River	500832_00	5130206	Logan	PS		NS				Pathogens, Nutrient /Eutroph., Org.Enrich. (Sewage)	Grazing-Riparian Zones, Pasture Grazing, Septic Tanks/Decentral. Sys (Septic Sys/Decentralized Sys)
Red River	50.1 to 54.2	Cumberland River	501672_01	5130206	Logan	PS	PS					Unknown	Unknown
Red River	73.5 to 80.5	Cumberland River	501672_05	5130206	Simpson	PS						Unknown	Unknown
Richland Creek	0.6 to 5.3	Cumberland River	501820_00	5130205	Livingston			NS				Pathogens	Unknown
Sandy Creek	0.0 to 2.3	Cumberland River	502979_00	5130205	Livingston			NS				Pathogens	Unknown
Sinking Fork	2.2 to 5.6	Little River	503569_01	5130205	Trigg	PS	PS					Unknown	Unknown
Sinking Fork	13.6 to 16.6	Little River	503569_02	5130205	Christian	NS						Org.Enrich (Sewage), Unknown	Unknown
Skinframe Creek	0.0 to 4.8	Livingston Crk	503607_00	5130205	Lyon	PS		NS				Pathogens, Unknown	Unknown
Skinner Creek	0.0 to 5.8	Casey Crk	503615_00	5130205	Trigg	NS						Unknown	Unknown
South Fork Little River	0.0 to 10.5	Little River	503934_01	5130205	Christian	NS	NS	NS				Sediment/Siltation, Pathogens, Nutrient /Eutroph., Other	Municipal Pt. Source Dischrge, Unknown, Agriculture

### Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>

South Fork Little River	10.5 to 19.9	Little River	503934_02	5130205	Christian	PS		NS				Sediment/Siltation, Pathogens, Nutrient /Eutroph., Other	Agriculture
South Fork Little River	20.9 to 25.4	Little River	503934_03	5130205	Christian	NS						Unknown	Unknown
Spring Creek	3.0 to 3.7	Livingston Crk	504129_00	5130205	Lyon	NS						Unknown	Riparian Habitat Loss
Sugar Creek	1.0 to 1.4	Muddy Fork	504647_00	5130205	Christian	NS						Sediment/Siltation	Agriculture
Sugar Creek	2.1 to 6.7	Cumberland River	504655_00	5130205	Livingston			PS				Pathogens	Unknown
Upper Branch	0.0 to 2.7	North Fork Little River	505861_00	5130205	Christian	PS						Unknown	Unknown

<b>Mississippi River Basin</b>													
Bayou de Chien	14.0 to 25.9	Obion Crk	486489_02	8010201	Hickman			NS				Pathogens	Agriculture
Brush Creek	0.0 to 8.3	Obion Crk	488070_00	8010201	Graves	PS						Sediment/Siltation	Channelization, Dredging , Agriculture
Brush Creek	0.0 to 6.0	Obion Crk	488071_00	8010201	Hickman	PS						Sediment/Siltation	Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod
Caldwell Creek	0.0 to 3.05	Terrapin Crk	488592_00	8010202	Graves	NS						Sediment/Siltation	Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod
Cane Creek	0.0 to 5.4	Bayou de Chien	488768_00	8010201	Hickman	PS						Sediment/Siltation, Nut./Eutroph	Riparian Habitat Loss, Non-Irrig Crop Prod



**Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Cane Creek	0.0 to 3.8	Shawnee Crk	488772_00	8010100	Ballard	PS						Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge
Central Creek	0.8 to 2.5	Truman Crk	489283_01	8010201	Carlisle			NS				Pathogens	Unknown
Cooley Creek	0.6 to 2.3	Mayfield Crk	490025_00	8010201	Graves			NS				Pathogens	Indus. Pt. Source Dischrge
Gilbert Creek	1.8 to 3.5	Mayfield Crk	492817_00	8010201	Graves	NS						Sediment/Siltation	Riparian Habitat Loss
Goose Creek	0.0 to 4.4	Wilson Crk	493008_00	8010201	Graves	PS						Sediment/Siltation	Channelization, Riparian Habitat Loss
Hazel Creek	0.0 to 3.7	Axe Lake	493948_00	8010100	Ballard	NS						Sediment/Siltation, Nut./Eutroph.	Channelization, Unknown
Hurricane Creek	0.0 to 3.7	Obion Crk	494824_00	8010201	Carlisle	PS						Sediment/Siltation	Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod
Knob Creek	1.1 to 2.2	Blackmore Crk	495836_00	8010202	Graves	NS						Sediment/Siltation	Crop Prod
Little Bayou de Chein	0.0 to 2.1	Bayou de Chien	496606_01	8010201	Hickman	PS						Sediment/Siltation	Riparian Habitat Loss, Agriculture
Little Bayou de Chein	10.1 to 12.3	Bayou de Chien	496606_02	8010201	Fulton	NS						Sediment/Siltation	Crop Prod , Habitat Mod-other than Hydro
Little Creek	0.0 to 6.2	Obion Crk	496690_00	8010201	Hickman	NS						Sediment/Siltation	Channelization, Riparian Habitat Loss
Little Cypress Creek	0.0 to 2.0	Obion Crk	496699_00	8010201	Graves	NS						Sediment/Siltation	Unknown
Little Mud Creek	0.0 to 1.8	Bayou de Chien	496810_00	8010201	Fulton	PS						Sediment/Silt., Nutrient /Eutroph.	Non-Irrig Crop Prod

### Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Mayfield Creek	0.0 to 3.4	Mississippi River	497717_01	8010201	Carlisle	PS						Unknown	Unknown
Mayfield Creek	8.2 to 13.5	Mississippi River	497717_02	8010201	Carlisle	NS	NS	NS				Copper, Iron, Sediment/Siltation, Pathogens, Zinc	Channelization, Unknown, Habitat Mod-not Hydro
Mayfield Creek	13.5 to 14.8	Mississippi River	497717_03	8010201	Carlisle	NS						Sediment/Siltation	Agriculture
Mayfield Creek	19.2 to 32.9	Mississippi River	497717_06	8010201	McCracken	PS						Sediment/Siltation	Channelization, Riparian Habitat Loss
Mayfield Creek	32.9 to 34.9	Mississippi River	497717_07	8010201	Graves	PS						Sediment/Siltation	Channelization, Riparian Habitat Loss
Mayfield Creek	34.9 to 37.6	Mississippi River	497717_08	8010201	Graves		NS					Copper, Sediment/Siltation	Channelization, Unknown, Agriculture
Mayfield Creek	37.6 to 40.8	Mississippi River	497717_09	8010201	Graves	PS						Sediment/Siltation	Channelization, Riparian Habitat Loss, Habitat Mod-not Hydro
Mayfield Creek	40.8 to 43.7	Mississippi River	497717_10	8010201	Graves	PS						Sediment/Siltation	Channelization, Riparian Habitat Loss
Mayfield Creek	57.7 to 59.8	Mississippi River	497717_11	8010201	Calloway	NS						Sediment/Siltation	Crop Prod
Mud Creek	0.0 to 6.4	Bayou de Chien	498982_00	8010201	Fulton	NS						Sediment/Siltation	Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod
Obion Creek	1.3 to 15.8	Mississippi River	499767_01	8010201	Fulton	NS	NS					Iron, Sediment/Siltation	Channelization, Impacts fr. Hydrostructure Flow Reg./Mod, Riparian Habitat Loss, Non-Irrig Crop Prod

**Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List**

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Obion Creek	38.6 to 42.0	Mississippi River	499767_03	8010201	Hickman	NS						Unknown	Channelization, Unknown
Obion Creek	42.0 to 47.6	Mississippi River	499767_04	8010201	Hickman	PS						Sediment/Siltation	Channelization, Crop Prod
Obion Creek	47.6 to 56.0	Mississippi River	499767_05	8010201	Graves	PS						Sediment/Siltation, Unknown	Unknown, Agriculture
Opossum Creek	0.0 to 2.2	Obion Crk	499959_00	8010201	Graves	NS						Sediment/Siltation	Channelization
Running Slough	0.0 to 15.3	Obion Crk	502469_00	8010202	Fulton	PS						Sediment/Siltation, Turbidity	Crop Prod
Shawnee Creek Slough	0.0 to 3.0	Mississippi River	503285_01	8010100	Ballard		NS					Iron	Unknown
Shawnee Creek Slough	8.9 to 17.9	Mississippi River	503285_03	8010100	Ballard	PS						Sediment/Siltation	Channelization, Riparian Habitat Loss, Agriculture
South Fork Bayou de Chien	2.0 to 7.2	Bayou de Chien	503904_00	8010201	Graves	NS						Sediment/Siltation	Crop Prod
Swan Pond	193 acres	Minor Slough	504837_00	8010201	Ballard		NS					Nutrient/Eutroph.	Natr'l Sources, Agriculture
UT to Mayfield Creek	0.0 to 1.0	Mayfield Crk	497717-24.0_00	8010201	McCracken	NS						Sediment/Siltation	Agriculture
UT to Mayfield Creek	1.1 to 3.5	Mayfield Crk	497717-25.6_00	8010201	Graves	NS						Sediment/Siltation	Riparian Habitat Loss, Agriculture
UT to Obion Creek	1.6 to 2.2	Obion Crk	499767-16.3_00	8010201	Hickman	NS						Unknown	Channel., Riparian Habitat Loss, Strmbank Mod/Destable, Unknown

### Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources

Ohio River Tributaries													
Bayou Creek	0.0 to 6.5	Ohio River	486491_00	5140206	McCracken	NS	NS					Beta Part/Photon Emit, Mercury, Copper, Lead	Indus. Pt. Source Dischrge, Inappropriate Waste Disposal
Clanton Creek	0.0 to 4.9	Humphrey Crk	489524_00	5140206	Ballard	NS						Sediment/Silt, Nut./ Eutroph.	Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod
Humphrey Crk	0.0 to 3.4	Ohio River	494758_01	5140206	Ballard	PS						Unknown	Unknown, Habitat Mod-not Hydromod
Humphrey Crk	3.4 to 11.0	Ohio River	494758_02	5140206	Ballard			PS				Pathogens	Unknown
Little Bayou Creek	0.0 to 6.5	Bayou Crk	496607_00	5140206	McCracken	NS	NS			NS		Beta Part./Photon Emitters, Copper, Lead	Indus. Pt. Source Dischrge, Inappropriate Waste Disposal
Massac Creek	3.6 to 4.2	Ohio River	497670_01	5140206	McCracken	PS	PS					Sediment/Siltation	Dredge Mining, Hwy/Rd/Brdg Runoff (Non-Const), Rip Hab Loss, Post-Devel. Erosion /Sed.
Metropolis Lake	36 acres	N/A	498089_00	5140206	McCracken					PS		Methyl mercury	Unknown

Tennessee River Basin													
Angle Creek	0.0 to 0.7	Little Cypress Crk	485958_00	6040006	Marshall	PS		NS				Pathogens, Unknown	Unknown

**Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Bear Creek	3.1 to 6.3	Tennessee River	486553_00	6040005	Marshall			NS				Pathogens	On-site Treatment Sys. (Septic/Decentral. Sys), Package Plants/Permitted Small Dischrge
Bee Creek	0.0 to 1.8	Clarks River	486666_00	6040006	Calloway			NS				Pathogens	Unknown
Blizzard Pond	0.0 to 3.7	West Fork Clarks River	506426-1.4_01	6040006	McCracken			NS				Pathogens	Unknown
Camp Creek	0.0 to 5.4	West Fork Clarks River	488685_00	6040006	McCracken	PS		PS				Pathogens, Unknown, Other	Unknown
Champion Creek	0.0 to 1.5	Island Crk	489324_00	6040006	McCracken	NS						Unknown	Land Clearance (Devel./Redevelop.)
Chestnut Creek	0.0 to 3.0	Clarks River	489424_00	6040006	Marshall	PS		PS				Pathogens, Unknown, Other	Unknown
Clarks River	5.0 to 12.7	Tennessee River	489552_01	6040006	McCracken	PS						Unknown	Unknown
Clarks River	50.9 to 59.9	Tennessee River	489552_07	6040006	Calloway	PS		NS				Sediment/Siltation, Pathogens, Nutrient/Eutroph., Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge, Agriculture, Urban Stormwater
Clarks River	59.9 to 61.9	Tennessee River	489552_08	6040006	Calloway	PS		PS				Pathogens, Unknown	Unknown
Clayton Creek	0.8 to 3.3	Clarks River	489601_01	6040006	Calloway	PS						Unknown	Unknown
Clayton Creek	3.3 to 7.1	Clarks River	489601_02	6040006	Calloway			NS				Pathogens	Unknown
Cypress Creek	6.3 to 7.7	Tennessee River	490528_02	6040006	Marshall	NS						Sediment/Siltation, Org.Enrich. (Sewage)	Riparian Habitat Loss, Unknown

**Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List**

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Cypress Creek	7.7 to 9.7	Tennessee River	490528_03	6040006	Marshall	NS						Unknown	Unknown
Damon Creek	0.0 to 1.8	West Fork Clarks River	490545_00	6040006	Calloway	NS		NS				Pathogens, Unknown	Animal Feed. Op.'s, Unknown
Guess Creek	0.0 to 2.6	Tennessee River	493458_00	6040006	Livingston	PS						Unknown	Unknown
Island Creek	0.0 to 5.5	Tennessee River	495045_01	6040006	McCracken	PS		NS				Pathogens, Unknown	Unknown
Island Creek	5.5 to 10.3	Tennessee River	495045_02	6040006	McCracken	PS						Unknown	Unknown
Jonathan Creek	6.2 to 18.0	Tennessee River	495443_00	6040005	Calloway	PS						Unknown	Unknown
Little Cypress Creek	0.0 to 3.4	Cypress Crk	496700_01	6040006	Marshall	NS		PS				Pathogens, Unknown	Unknown
Little Cypress Creek	3.4 to 6.0	Cypress Crk	496700_02	6040006	Marshall	NS						Unknown	Unknown
Middle Fork Clarks River	0.0 to 2.7	Clarks River	498115_01	6040006	Calloway	PS		NS				Sediment/Siltation, Pathogens, Nutrient/Eutroph.	Agriculture
Middle Fork Clarks River	2.7 to 4.9	Clarks River	498115_02	6040006	Calloway	PS						Sediment/Siltation, Nutrient/Eutroph.	Agriculture
Middle Fork Creek	0.2 to 6.6	Clarks River	498118_00	6040006	Marshall	PS		NS				Pathogens, Unknown	Unknown
Reeves Branch	0.0 to 0.3	Sugar Crk	501706_00	6040006	Marshall	PS						Unknown	Unknown
Spring Creek	0.0 to 1.8	West Fork Clarks River	504124_00	6040006	Graves	PS						Sediment/Siltation, Nutrient/Eutroph.	Channelization, Drainage/Filling/Loss Wetlands

### Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Tennessee River	21.1 to 22.4	Ohio River	517033_03	6040006	Marshall	PS						Unknown	Upstream Impoundment, Unknown
UT Old Beaver Dam Slough	0.0 to 0.5	Old Beaver Dam Slough	95-0.4_00	6040006	Marshall	NS						Unknown	Unknown, Urban Runoff/Storm Sewers
West Fork Clarks River	2.6 to 10.1	Clarks River	506426_01	6040006	McCracken			PS				Pathogens	Unknown
West Fork Clarks River	12.8 to 16.8	Clarks River	506426_02	6040006	Graves			NS				Pathogens	Unknown, Agriculture
West Fork Clarks River	19.7 to 22.7	Clarks River	506426_04	6040006	Marshall					PS		Methyl mercury	Unknown
West Fork Clarks River	22.7 to 27.3	Clarks River	506426_05	6040006	Calloway			PS				Pathogens	Unknown
West Fork Clarks River	33.1 to 37.2	Clarks River	506426_06	6040006	Calloway	PS						Unknown	Unknown
West Fork Clarks River (Relict Channel)	0 to 13.8	West Fork Clarks River	506427_01	6040006	Graves	PS						Unknown	Unknown
<b>Upper Cumberland River Basin</b>													
Bear Creek	0.0 to 3.2	South Fork Cumberland River	510462_00	5130104	McCreary	NS		NS	NS			pH	Subsurface Mining, Surface Mining
Becks Creek	0.0 to 4.0	Jellico Crk	510492_00	5130101	Whitley	PS		PS	PS			Sediment/Siltation, pH, Unknown	Surface Mining

**Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Big Indian Creek	0.0 to 5.1	Cumberland River	487197_00	5130101	Knox	NS						Sediment/Siltation	Non-Irrig Crop Prod, Land Clearance (Devel./Redevelop.)
Big Renox Creek	0.0 to 5.8	Cumberland River	487232_00	5130103	Cumberland	PS						Unknown	Unknown
Briary Creek	0.0 to 4.4	Buck Crk	487880_00	5130103	Pulaski	PS						Sediment/Siltation	Dredge Mining, Non-Irrig Crop Prod, Other Recreational Pollution Sources
Brush Creek	0.0 to 2.8	Cumberland River	488072_00	5130101	Knox	NS						Sediment/Siltation, Turbidity	Impacts fr. Aband. Mine Lands, Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable, Subsurface Mining, Surface Mining
Brush Creek	1.1 to 7.6	Roundstone Crk	510966_00	5130102	Rockcastle			NS				Pathogens	Septic Tanks/Decentral. Systems, Agriculture
Buck Creek	44.9 to 45.4	Cumberland River	511000_04	5130103	Pulaski					PS		Methyl mercury	Atmospheric Depositions-Toxics, Unknown
Clover Fork	29.1 to 30.3	Cumberland River	511423_06	5130101	Harlan	PS		NS				Sediment/Siltation	Heap-leach Ext Mining, Unknown
Cloverlick Creek	0.0 to 5.0	Poor Fork Cumberland River	511427_00	5130101	Harlan	NS						TSS	Heap-leach Extraction Mining
Corbin City Reservoir	139 acres	N/A	CLN052_00	5130101	Laurel		PS					Nutrient/Eutroph., Org.Enrich. (Sewage)	Internal Nutrient Recycling, Municipal Pt. Source Dischrge, Agriculture



**Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Cranks Creek	1.9 to 2.5	Martins Fork	490293_00	5130101	Harlan	PS						Unknown	Upstream Impound, Unknown
Cranks Creek Lake	219 acres	N/A	CLN057_00	5130101	Harlan		PS	PS	PS			pH	Impacts fr. Aband. Mine Lands
Crocus Creek	4.8 to 13.8	Cumberland River	490359_02	5130103	Cumberland	PS						Sediment/Siltation	Riparian Habitat Loss, Agriculture
Crocus Creek	13.8 to 16.9	Cumberland River	490359_03	5130103	Adair	PS						Sediment/Siltation	Riparian Habitat Loss, Strmbank Mod/Destable., Agriculture
Crooked Creek	1.0 to 6.4	Roundstone Crk	511648_01	5130102	Rockcastle			PS				Pathogens	Agriculture, Sewage Dischrg./Unsewered Areas
Cumberland River	649.0 to 650.6	Ohio River	517018_06	5130101	Bell			NS				Pathogens	Municipal Point Source Discharge, Decentralized Treatment/Septic Systems, SSO
Cumberland River	660.1 to 666.7	Ohio River	517018_08	5130101	Harlan		PS					Iron, Unknown	Unknown
East Fork Lynn Camp Creek	0.0 to 4.5	Lynn Camp Crk	511990_00	5130101	Knox	PS						Sediment/Siltation	Land Clearance (Devel./Redevelop.)
Elk Spring Creek	0.0 to 7.8	Beaver Crk	491678_00	5130103	Wayne	NS						Unknown	Unknown
Ewing Creek	0.0 to 2.7	Cumberland River	491860_00	5130101	Harlan	NS						Sediment/Siltation	Post-Devel. Erosion/Sediment., Surface Mining

### Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Ferris Fork Creek	0.0 to 1.2	Marrowbone Crk	492053_00	5130103	Cumberland	NS						Sediment/Siltation	Riparian Habitat Loss, Livestock-Grazing/Feed. Op's
Gilmore Creek	0.0 to 4.7	Crab Orchard Crk	492855_00	5130103	Pulaski	PS						Sediment/Siltation	Dredge Mining
Goodin Creek	2.1 to 2.3	Cumberland River	492978_00	5130101	Knox	PS						Sediment/Siltation	Riparian Habitat Loss, Upstream Impound.
Hatchell Branch	0.0 to 1.0	Eagle Crk	512583_00	5130101	McCreary	PS						Sediment/Siltation	Silviculture
Indian Creek	0.0 to 4.1	Buck Crk	494919_00	5130103	Pulaski	PS						Sediment/Siltation	Dredge Mining
Jennys Branch	0.0 to 3.4	Laurel Crk	512993_00	5130101	McCreary	PS						Sediment/Siltation	Silviculture
Lake Cumberland	50250 acres	N/A	511679_00	5130103	Russell					PS		Methyl mercury	Unknown
Laurel Fork Clear Fork	10.3 to 13.9	Clear Fork	496040_02	5130101	Whitley	NS						Sediment/Siltation	Non-Irrig Crop Prod, Silviculture
Laurel River	0.0 to 2.3	Cumberland River	513263_01	5130101	Laurel	NS						Unknown	Upstream Impound., Unknown
Laurel River	24.9 to 27.9	Cumberland River	513263_02	5130101	Laurel	NS						Unknown	Upstream Impound., Unknown
Laurel River	36.6 to 46.3	Cumberland River	513263_04	5130101	Laurel	NS						Sediment/Siltation, Nutrient/Eutroph.	Animal Feed. Op.'s, Pasture Grazing, Non-Irrig Crop Prod, Surface Mining

### Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Left Fork Straight Creek	0.0 to 13.0	Straight Crk	513326_00	5130101	Bell	NS		NS	NS			Sediment/Siltation, TSS, Turbidity, pH	Impacts fr. Aband. Mine Lands, Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable., Subsurface Mining, Surface Mining, Unknown, Silviculture
Little Clear Creek	0.0 to 10.4	Clear Crk	496670_01	5130101	Bell	PS		NS	NS			Sediment/Siltation, pH	Heap-leach Ext Mining, Silviculture
Little Laurel River	0.0 to 8.3	Laurel River	513497_01	5130101	Laurel	NS	NS	PS				Pathogens, Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge
Little Laurel River	8.3 to 12.4	Laurel River	513497_02	5130101	Laurel	NS		NS				Sediment/Silt, Pathogens, Org.Enrich, Phos (Total)	Combined Sewer Overflows, Municipal Pt. Source Dischrge, Land Clearance (Devel./Redevelop.)
Little Laurel River	12.4 to 14.6	Laurel River	513497_03	5130101	Laurel		NS	NS				Pathogens, Nutrient/Eutroph., Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge, Agriculture
Little Laurel River	14.6 to 22.8	Laurel River	513497_04	5130101	Laurel			NS				Pathogens	Livestock-Grazing/Feed. Op's
Little Poplar Creek	0.0 to 2.8	Cumberland River	496830_00	5130101	Knox	PS						Sediment/Siltation	Pasture Grazing, Non-Irrig Crop Prod, Land Clearance (Devel./Redevelop.)
Little South Fork	0.0 to 4.1	South Fork Cumberland River	513527_00	5130104	Wayne	PS						Sediment/Siltation	Surface Mining, Coal Mining (Subsurface)

**Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Lynn Camp Creek	0.0 to 4.5	Laurel River	513739_01	5130101	Laurel	NS		NS				Oil and Grease, Pathogens, TSS	Other Spill Impacts, Unknown, Habitat Mod-not Hydro, Urban Runoff/Storm Sewers
Lynn Camp Creek	4.6 to 10.7	Laurel River	513739_02	5130101	Whitley	PS						Sediment/Siltation, Nutrient/Eutroph.	Hwy/Rd/Brdgs Infra, Pasture Grazing, Non-Irrig. Crops, Post-Devel. Erosion /Sediment, Land Clearance
Marrowbone Creek	0.0 to 2.8	Cumberland River	497560_01	5130103	Cumberland	PS	PS					Unknown	Riparian Habitat Loss, Unknown
Marsh Creek	13.3 to 16.3	Cumberland River	513798_03	5130101	McCreary	NS						Sediment/Siltation	Silviculture
Marsh Creek	19.0 to 24.1	Cumberland River	513798_04	5130101	McCreary	NS						Sediment/Siltation	Agriculture, Coal Mining
Martins Fork	10.1 to 15.5	Clover Fork	497628_02	5130101	Harlan	PS						Unknown	Unknown
Martins Fork	18.0 to 27.4	Clover Fork	497628_03	5130101	Harlan		NS	NS	NS			pH	Coal Mining
Meadow Creek	0.0 to 6.8	Cumberland River	497981_00	5130101	Knox	PS						Sediment/Siltation	Pasture Grazing, Non-Irrig Crop Prod, Surface Mining
Middle Fork Richland Creek	0.0 to 1.2	Richland Crk	498135_00	5130101	Knox	PS						Sediment/Siltation	Hwys/Rd/Brdgs Infrastructure, Land Clearance, Surface Mining
Mitchell Creek	0.0 to 3.6	Sinking Crk	514033_00	5130102	Laurel	NS						Unknown	Land Clearance (Devel./Redevelop.)

**Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Mud Creek	0.0 to 5.1	Clear Fork	514128_00	5130101	Whitley	PS						Sediment/Siltation	Hwys/Rd/Brdgs Infrastructure, Non-Irrig Crop Prod, Land Clearance
Pitman Creek	4.0 to 5.7	Cumberland River	514627_01	5130103	Pulaski	PS						Unknown	Municipal Pt. Source Dischrge
Poor Fork	14.9 to 16.3	Cumberland River	514707_03	5130101	Harlan	PS						Sediment/Siltation	Hwys/Rd/Brdgs Infrastructure (New Construction)
Poor Fork	25.1 to 27.5	Cumberland River	514707_05	5130101	Harlan			NS				Pathogens	Unknown
Raccoon Creek	0.0 to 2.7	South Fork Rockcastle River	514818_00	5130102	Laurel	PS						Nutrient/Eutroph.	Livestock-Grazing/Feed. Op's, Crop Prod , Silviculture
Renfro Creek	0.0 to 3.0	Roundstone Crk	514888_00	5130102	Rockcastle	PS						Sediment/Siltation, Org.Enrich. (Sewage)	Package Plant/Other Small Dischrge., Upstream Impound., Urban Stormwater
Richland Creek	0.0 to 6.2	Cumberland River	514915_01	5130101	Knox	NS	NS					Sediment/Siltation, Nutrient/Eutroph	Hwys/Rd/Brdgs Infrastructure, Land Clearance, Surface Mining, Unknown
Roaring Paunch Creek	7.8 to 15.6	S Fk Cumberland River	514993	5130104	McCreary		NS	NS	NS			pH	Acid Mine Drainage
Rock Creek	16.6 to 21.9	South Fork Cumberland River	515024_03	5130104	McCreary					PS		Methyl mercury	Unknown

**Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List**

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Roundstone Creek	16.9 to 23.7	Rockcastle River	515136_03	5130102	Rockcastle	PS						Nutrient/Eutroph.	Livestock-Grazing/Feed. Operations
Ryans Creek	0.0 to 5.3	Jellico Crk	515156_00	5130101	McCreary	NS						TSS	Heap-leach Ext Mining
Sam Branch	0.0 to 0.5	Fishing Crk	502871_00	5130103	Pulaski	PS						Sediment/Siltation	Riparian Habitat Loss, Agriculture
Sims Fork	0.0 to 5.2	Left Fork Straight Crk	515430_00	5130101	Bell	NS						Sediment/Siltation, Unknown	Heap-leach Ext Mining, Unknown
Skegg Creek	0.0 to 3.2	Rockcastle River	515451_01	5130102	Rockcastle	PS						Sediment/Silt., Nutrient/ Eutroph.	Non-Irrig Crops, Post-Devel.. Erosion/ Sediment., Surface Mining, Natr'l Sources
South Fork Rockcastle River	20.8 to 21.5	Rockcastle River	515548_02	5130102	Laurel	NS						Sediment/Siltation	Loss Riparian Habitat, Crop Product.
South Fork Rockcastle River	21.5 to 25.5	Rockcastle River	515548_03	5130102	Laurel	PS						Sediment/Siltation, Nutrient/Eutroph.	Channelization, Loss Riparian Habitat, Strmbank Mod/Destab., Livestock (Grazing/Feed. Op's), Crop Prod
Stinking Creek	0.0 to 2.1	Cumberland River	515716_00	5130101	Knox	NS		NS	NS			Oil and Grease, Sediment/Siltation, pH	Acid Mine Drainage, Channelization, Aband. Mine Lands Impacts, Non-Irrig Crops, Petroleum/Natr'l Gas Prod (Permit), Surface Mining

**Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Stoney Fork	0.0 to 2.4	Straight Crk	515733_00	5130101	Bell	NS						Sediment/Siltation, Turbidity	Aband. Mine Lands, Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable., Sub/Surface Mining
Stony Fork	0.0 to 5.2	Bennetts Fork Yellow Crk	504506_00	5130101	Bell	NS						Sediment/Siltation, Turbidity	Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable.
Straight Creek	0.0 to 1.7	Cumberland River	515746_01	5130101	Bell		PS					Sediment/Silt.	Heap-leach Ext Mining, Unknown
UT to Jennys Branch	0.0 to 1.1	Jennys Branch	512993-3.4_00	5130101	McCreary	NS						Sediment/Silt., Nutrient/ Eutrop.	Septic Tanks/Decentral. Systems Post-Devel.. Erosion/Sediment.
UT to Little Laurel River	0.0 to 1.4	Little Laurel River	513497-15.8_00	5130101	Laurel	NS						Sediment/Siltation	Riparian Habitat Loss
White Oak Creek	0.0 to 4.2	Rock Crk	516318_01	5130104	McCreary	NS	NS					Iron	Coal Mining
White Oak Creek	0.0 to 1.0	Sinking Crk	516320_01	5130102	Laurel	NS						Sediment/Siltation, TSS, Turbidity	Pasture Grazing, Non-Irrig Crop Prod, Post-Devel. Erosion /Sediment.
Whitley Branch	0.0 to 1.1	Little Laurel River	516339_01	5130101	Laurel		NS	PS				Pathogens, Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge
Whitley Branch	1.1 to 2.5	Little Laurel River	516339_02	5130101	Laurel			NS				Pathogens	SSO/Collect Sys Failure
Wolf Creek	0.0 to 1.8	Clear Fork	516433_00	5130101	Whitley	NS						Sediment/Siltation	Non-Irrig Crop Prod, Surface Mining

**Tennessee-Mississippi-Cumberland Basin Management Unit 303(d) List**

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Wood Creek Lake	672 acres	N/A	516467_00	5130102	Laurel						PS	Org.Enrich. (Sewage)	On-site Treatment Sys. (Septic/ Decentralized Sys)
Yellow Creek	0.0 to 0.8	Cumberland River	507211_01	5130101	Bell	PS						Sediment/Silt., TDS, Org.Enrich. (Sewage)	Unknown, Habitat Mod-not Hydro, Urban Runoff /Storm Sewers
Yellow Creek	0.8 to 8.9	Cumberland River	507211_02	5130101	Bell	PS	PS					Sediment/Siltation, Org.Enrich. (Sewage)	Urban Stormwater, Urban Runoff/Storm Sewers



### Green River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources

Green River Basin													
Adams Fork	0.0 to 4.6	Rough River	485774_01	5110004	Ohio	PS						Unknown	Unknown
Bacon Creek	0.0 to 17.2	Nolin River	486197_01	5110001	Hart			NS				Pathogens	Septic Tanks/Decentral. Systems Agriculture
Bacon Creek	17.2 to 26.3	Nolin River	486197_02	5110001	Hart	PS		NS				Sediment/Siltation, Pathogens	Riparian Habitat Loss, Non-Irrig Crop Prod, Septic Tanks/Decentral. Systems Agriculture
Bacon Creek	26.3 to 31.2	Nolin River	486197_03	5110001	Hart			NS				Pathogens	Septic Tanks/Decentral. Systems Agriculture
Barren River	110.0 to 124.3	Green River	517526_05	5110002	Allen			NS				Pathogens	Unknown
Barren River Reservoir	10000 acres	N/A	489429_00	5110002	Allen					PS		Methyl mercury	Atmospheric Depositions-Toxics, Unknown
Bat East Creek	0.0 to 3.3	Pond Crk	486462_01	5110003	Muhlenberg	PS	PS					Sediment/Siltation, TDS	Channelization, Irrig/Non-Irrig Crop Prod, Loss Riparian Habitat, Petroleum /Nat. Gas Prod, Surface Mining, Habitat Mod-not Hydro
Bat East Creek	3.3 to 7.1	Pond Crk	486462_02	5110003	Muhlenberg	PS	PS					TDS, Unknown	Petroleum/ Nat'l Gas Prod, Surface Mining, Agriculture
Bear Creek	14.5 to 22.3	Green River	486554_02	5110001	Edmonson	NS						Unknown	Unknown
Bear Creek	22.3 to 31.7	Green River	486554_03	5110001	Grayson	PS						Unknown	Riparian Habitat Loss, Strmbank Mod/Destable.

### Green River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Big Creek	3.0 to 8.2	Russell Crk	487159_00	5110001	Adair	PS		NS				Sediment/Siltation, Pathogens	Unknown, Habitat Mod-not Hydro
Big Pitman Creek	0.0 to 13.6	Green River	487227_01	5110001	Green			PS				Pathogens	Unknown
Big Pitman Creek	26.9 to 32.0	Green River	487227_02	5110001	Green	PS						Sediment/Siltation, Nutrient/Eutroph.	Dredge Mining, Dredging , Riparian Habitat Loss, Strmbank Mod/Destable., Livestock-Grazing/Feed. Op's, Crop Prod
Big Reedy Creek	7.5 to 13.6	Green River	487231_00	5110001	Butler	PS		NS				Sediment/Siltation, Pathogens	Unknown, Crop Prod , Habitat Mod-not Hydro
Billy Creek	0.0 to 5.9	Valley Crk	487317_00	5110001	Hardin	PS		NS				Sediment/Siltation, Pathogens, Nutrient/Eutroph, Unknown	Indus. Pt. Source Dischrge, Strmbank Mod/Destable, Livestock-Grazing/Feed. Op's, Crop Prod , Urban Stormwater
Brush Creek	0.0 to 6.2	Green River	488076_00	5110001	Casey	PS						Sediment/Siltation	Pasture Grazing, Non-Irrig Crop Prod
Brush Fork	0.0 to 3.8	Long Falls Crk	488089_00	5110005	McClellan	NS	NS	NS	NS			Sediment/Siltation, Sulfates, pH	Channelization, Irrig Crop Prod, Riparian Habitat Loss, Non-Irrig Crop Prod, Surface Mining
Buck Creek	1.3 to 7.4	Buck Fork Pond River	488210_00	5110006	Christian	PS						Sediment/Siltation	Habitat Mod-not Hydro

### Green River Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Buck Creek	0.0 to 8.0	Green River	488213_00	5110005	McClellan	PS		NS				Sediment/Siltation, Pathogens, Nutrient/Eutroph.	Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod, Confined Animal Feed. Op.'s (CAFOS)
Buck Fork	14.0 to 20.0	Pond River	488223_00	5110006	Christian	PS		NS				Sediment/Siltation, Pathogens	Unknown, Habitat Mod-not Hydro
Buckhorn Lake	1230 acres	N/A	511027_00	5100202	Perry				NS			Sediment/Siltation, TSS	Heap-leach Ext Mining, Surface Mining, Nat Sources, Agriculture
Burnett Fork	0.0 to 1.3	North Fork Panther Crk	488447_00	5110005	Daviess	PS	PS					Sediment/Siltation, Nitrogen (Total), Phosphorus (Total)	Channelization, Irrig/Non-Irrig Crop Prod, Riparian Habitat Loss, Strmbank Mod/Destable.
Butler Fork	2.3 to 4.0	Russell Crk	488519_00	5110001	Adair	NS		NS				Sediment/Siltation, Pathogens	Unknown, Habitat Mod-not Hydro
Calhoun Creek	0.0 to 2.8	Green River	488609_00	5110001	Casey	PS						Sediment/Siltation, Nutrient/Eutroph.	Pasture Grazing
Campbellsville City Reservoir	63 acres	N/A	CLN007_00	5110001	Taylor				PS			Sediment/Siltation	Upstream Source, Nat'l Sources
Cane Run	0.0 to 3.6	South Fork Panther Crk	488791_00	5110005	Daviess	PS	PS					Sediment/Siltation, Nutrient/Eutroph., Phosphorus (Total)	Channelization, Irrig Crop Prod, Non-Irrig Crop Prod, Unknown
Caney Creek	1.4 to 5.3	Pond River	488828_01	5110003	Muhlenberg			NS				Pathogens	Unknown

### Green River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Caney Creek	0.0 to 3.5	Pond Crk	488838_01	5110003	Muhlenberg	PS	PS					Sediment/Siltation, TDS	Channelization, Irrig/Non-Irrig Crop Prod, Riparian Habitat Loss, Petroleum/ Nat'l Gas Prod, Post-Devel. Erosion /Sediment., Urban Runoff
Caney Creek	3.5 to 7.5	Pond Crk	488838_02	5110003	Muhlenberg	NS						Sediment/Siltation	Agriculture, Habitat Mod-not Hydro
Caneyville City Reservoir	75 acres	N/A	488877_00	5110004	Grayson				PS		PS	Sediment/Siltation, Nutrient/Eutroph.	Natr'l Sources
Casey Creek	3.7 to 4.7	Green River	485672_01	5110001	Casey			PS				Pathogens	Unknown
Cash Creek	0.0 to 5.8	Green River	489056_01	5110005	Henderson	PS						Sediment/Siltation	Riparian Habitat Loss, Non-Irrig Crop Prod
Claylick Creek	4.1 to 5.3	South Fork Little Barren River	489582_00	5110001	Metcalfe	PS						Sediment/Siltation, Nutrient/Eutroph.	Hwys/Rd/Brdgs Infrastructure, Riparian Habitat Loss, Pasture Grazing
Claylick Creek	2.0 to 3.1	Green River	489590_00	5110001	Warren	PS		NS				Sediment/Siltation, Pathogens	Channelization, Unknown, Habitat Mod-not Hydro
Cox's Run	0.0 to 3.2	Nolin River	490231_00	5110001	Hardin	PS						Sediment/Siltation, Nutrient/Eutroph.	Hwy/Rd/Brdg Runoff (Non-Constr), Post-Devel. Erosion /Sediment., Strmbank Mod/Destable., Livestock Grazing/Feed. Op's, Crop Prod

### Green River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Craborchard Creek	0.0 to 4.6	Drakes Crk	490247_01	5110006	Hopkins	NS	NS	NS				Sediment/Siltation, Sulfates, TDS, Unknown	Petroleum/ Nat'l Gas Prod, Agriculture, Habitat Mod-not Hydro
Crooked Creek	0.0 to 2.9	Panther Crk	490376_00	5110005	Daviess			NS				Pathogens	Unknown
Cypress Creek	23.1 to 25.4	Pond River	490526_02	5110006	Muhlenberg	PS		PS	PS			Pathogens, pH	Acid Mine Drainage, Surface Mining, Unknown, Coal Mining (Subsurface)
Cypress Creek	25.4 to 33.3	Pond River	490526_03	5110002	Muhlenberg	PS		PS	PS			TDS, pH	Acid Mine Drainage
Daniels Creek	0.0 to 5.7	Rock Lick Crk	490575_00	5110004	Breckinridge	PS						Unknown	Unknown, Habitat Mod-not Hydro
Deer Creek	0.0 to 8.2	Green River	490771_01	5110005	Webster	NS	NS					Nutrient/Eutroph.	Crop Prod
Deer Creek	8.2 to 17.5	Green River	490771_02	5110005	Webster	NS						Unknown	Riparian Habitat Loss, Strmbank Mod/Destable., Crop Prod
Deserter Creek	0.0 to 3.1	South Fork Panther Crk	490828_00	5110005	Daviess	PS		NS				Sediment/Siltation, Pathogens	Channelization, Unknown, Agriculture, Habitat Mod-not Hydro
Dorsey Run	1.9 to 3.7	Sinks Nolin River	491020_00	5110001	Hardin	NS						Sediment/Siltation, Nutrient/Eutroph.	Riparian Habitat Loss, Pasture Grazing, Post-Devel. Erosion/Sediment.
Drakes Creek	0.0 to 23.4	Barren River	491096_00	5110002	Warren					PS		PCBs	Indus. Pt. Source Dischrge
Dry Creek	0.0 to 3.7	Casey Crk	491173_00	5110001	Casey	PS						Sediment/Siltation	Pasture Grazing, Non-Irrig Crop Prod
East Branch	0.0 to 2.0	West Fork Pond River	491428_00	5110006	Christian	PS						Sediment/Siltation	Crop Prod , Habitat Mod-not Hydro

### Green River Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
East Fork Deer Creek	0.0 to 6.8	Deer Crk	491455_00	5110005	Webster	NS						Sediment/Siltation	Non-Irrig Crop Prod
Elk Creek	0.0 to 5.4	Pond River	491656_01	5110006	Hopkins	NS						Sediment/Siltation	Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod
Elk Creek	7.5 to 10.6	Pond River	491656_02	5110006	Hopkins			NS				Pathogens	SSO/Collect Sys Failure
Elk Pond Creek	0.0 to 4.5	Pond River	491671_00	5110006	Muhlenberg	NS		NS				Sediment/Siltation, Pathogens	Unknown, Habitat Mod-not Hydro
Flat Creek	0.0 to 10.6	Pond River	492181_00	5110006	Hopkins	NS	NS	NS	NS			Sediment/Siltation, Sulfates, TDS, pH	Acid Mine Drainage, Hwy /Rd/Brdg Runoff, Illegal Storm Sewer Hkup, Indus/Com. Strmwtr Dischrge Permit, Pet/Natr'l Gas Prod, Post-Devel Erosion/Sediment, Land Clearance, Surface Mining, Urban Stormwater
Ford Ditch	0.0 to 2.6	Rhodes Crk	501759-2.2_00	5110005	Daviess	PS	PS					Sulfates, TDS, Phosphorus (Total)	Channelization, Dredging Irrig/Non-Irrig Crop Prod, Petroleum/ Natr'l Gas Prod, Surface Mining
Gilles Ditch	0.0 to 4.9	Rhodes Crk	501760-3.5_00	5110005	Daviess	NS						Unknown	Riparian Habitat Loss, Strmbank Mod/Destable.
Glens Fork	0.0 to 8.0	Russell Crk	492907_00	5110001	Adair	PS		NS				Sediment/Siltation, Pathogens	Range. Grazing, Unknown, Habitat Mod-not Hydromods

### Green River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Grassy Creek	0.8 to 2.9	Rough River	493149_00	5110004	Ohio	NS						Sediment/Siltation	Channelization, Dredging Riparian Habitat Loss, Surface Mining
Green River	207.8 to 246.4	Ohio River	493284_07	5110001	Hart					PS		Methyl mercury	Unknown
Green River Reservoir	8210 acres	N/A	493295_00	5110001	Taylor					PS		Methyl mercury, PCBs	Indus. Pt. Source Dischrge
Groves Creek	0.0 to 6.2	Green River	493444_00	5110005	Webster	NS						Sediment/Siltation	Riparian Habitat Loss, Non-Irrig Crop Prod
Havana Creek	0.0 to 1.9	Deer Crk	493874_00	5110006	Webster	PS						Sediment/Siltation	Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod
Indian Camp Creek	0.0 to 3.0	Green River	494914_01	5110003	Butler	PS						Sediment/Siltation	Crop Prod , Habitat Mod-not Hydro
Indian Camp Creek	3.9 to 10.2	Green River	494914_02	5110003	Butler	PS						Sediment/Siltation	Crop Prod , Habitat Mod-not Hydro
Isaacs Creek	0.0 to 7.4	Pond River	495035_00	5110006	Muhlenberg	NS		NS	NS			Sediment/Siltation, pH	Acid Mine Drainage, Impacts fr. Aband. Mine Lands
Jarrels Creek	0.0 to 1.6	Pond River	495175_00	5110006	Muhlenberg	NS		NS				Sediment/Siltation, Pathogens	Dredging , Unknown, Habitat Mod-not Hydro
Jarret Fork	0.0 to 1.0	Caney Crk	495176_00	5110004	Grayson	NS						Sediment/Siltation, Nutrient/Eutroph.	Animal Feed. Op.'s, Impacts fr. Hydrostructure Flow Reg/Mod, Upstream Impound., Livestock-Grazing/Feed. Op's, Crop Prod

### Green River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Jenny Hollow Branch	0.0 to 2.4	Horse Branch	495212_00	5110004	Ohio	NS						Sediment/Siltation	Channelization, Dredging Riparian Habitat Loss, Strmbank Mod/Destable., Livestock-Grazing/Feed. Op's
Joes Branch	0.0 to 3.5	North Fork Panther Crk	495307_00	5110005	Daviess	PS	PS					Unknown	Channelization, Irrig/Non-Irrig Crop Prod, Riparian Habitat Loss, Pasture Grazing., Unknown
Joes Run	0.0 to 2.4	North Fork Panther Crk	495312_00	5110005	Daviess	PS	PS					Unknown	Channelization, Irrig/Non-Irrig Crop Prod, Riparian Habitat Loss, Pasture Grazing, Unknown
Knoblick Creek	0.0 to 2.1	Panther Crk	495848_00	5110005	Daviess			NS				Pathogens	Unknown
Knoblick Creek	0.0 to 9.0	Deer Crk	495850_00	5110005	Webster	NS						Sediment/Siltation, TDS, Nutrient /Eutroph.	Riparian Habitat Loss, Pasture Grazing, Non-Irrig Crop Prod, Range. Grazing
Lake Luzerne	55 acres	N/A	497358_00	5110003	Muhlenberg						PS	Nutrient/Eutroph.	Unknown
Lewis Creek	0.0 to 11.8	Green River	496327_00	5110003	Ohio	PS						Sediment/Siltation	Surface Mining, Habitat Mod-not Hydro
Lick Creek	0.0 to 3.7	Green River	496482_01	5110005	Henderson	NS						Sediment/Siltation	Non-Irrig Crop Prod
Lick Creek	5.0 to 13.8	Green River	496482_02	5110005	Henderson	NS						Sediment/Siltation	Channelization
Lindy Creek	0.0 to 0.9	Lynn Camp Crk	496578_00	5110001	Hart	PS						Sediment/Siltation, Nutrient/Eutroph.	Dredging , Pasture Grazing
Little Barren River	0.0 to 8.8	Green River	496604_01	5110001	Green			PS				Pathogens	Unknown



### Green River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Little Beaverdam Creek	10.7 to 11.4	Green River	496615_02	5110002	Warren	PS						Sediment/Siltation	Riparian Habitat Loss, Silviculture
Little Cypress Creek	0.0 to 9.2	Pond River	496701_00	5110006	Muhlenberg	PS	PS					Sediment/Siltation, Sulfates, TDS	Channelization, Golf Courses, Hwy/Rd/Brdg Runoff, Irrig/Non-Irrig Crop Prod, Petroleum/ Nat'l Gas Prod, Surface Mining, Urban Stormwater
Little Muddy Creek	4.9 to 6.4	Green River	513506_01	5110002	Butler	NS						Sediment/Siltation	Crop Prod , Habitat Mod-not Hydro
Little Muddy Creek	6.4 to 12.9	Green River	513506_02	5110002	Butler	PS						Sediment/Siltation, Nutrient/Eutroph.	Riparian Habitat Loss, Non-Irrig Crop Prod
Long Falls Creek	0.0 to 7.5	Green River	497098_01	5110005	McClellan	PS	PS	NS				Sediment/Siltation, Sulfates, TDS, Pathogens	Channelization, Irrig/Non-Irrig Crop Prod, Petroleum/ Nat'l Gas Prod, Surface Mining, Unknown
Long Falls Creek	7.5 to 11.8	Green River	497098_02	5110005	McClellan	PS		NS	NS			Sediment/Siltation, TDS, Pathogens, pH	Acid Mine Drainage, Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod
Long Lick Creek	4.5 to 6.9	Rough River	497125_00	5110004	Breckinridge	NS						Sediment/Siltation, Nutrient/Eutroph.	Riparian Habitat Loss, Livestock-Grazing/Feed. Op's, Crop Prod
McGrady Creek	0.0 to 2.0	Caney Crk	497869_00	5110004	Ohio	PS						Sediment/Siltation	Habitat Mod-not Hydro
Mill Creek	0.0 to 3.8	Smith Crk	498260_00	5110004	Ohio			NS				Pathogens	Unknown

### Green River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Mud River	0.0 to 9.0	Green River	499011_01	5110003	Butler					NS		PCBs	Indus. Pt. Source Dischrge
Mud River	9.0 to 30.5	Green River	499011_02	5110003	Butler		PS			NS		Methyl mercury, PCBs, Other	Indus. Pt. Source Dischrge, Unknown
Mud River	30.5 to 38.9	Green River	499011_03	5110003	Logan					NS		PCBs	Indus. Pt. Source Dischrge
Mud River	38.9 to 67.8	Green River	499011_04	5110003	Logan					NS		PCBs	Indus. Pt. Source Dischrge
Muddy Creek	8.3 to 12.1	Green River	499036_02	5110004	Butler	NS						Unknown	Channelization, Unknown
Muddy Creek	12.1 to 14.9	Green River	499036_03	5110003	Logan	PS						Sediment/Siltation, Nutrient/Eutroph.	Riparian Habitat Loss, Non-Irrig Crop Prod, Crop Prod
Muddy Creek	0.0 to 6.1	Caney Crk	499037_01	5110004	Ohio	PS						Sediment/Siltation	Habitat Mod-not Hydro
Muddy Creek	1.9 to 3.9	Rough River	499038_01	5110004	Ohio	NS						Nutrient/Eutroph.	Channelization, Agriculture
Muddy Creek	5.9 to 9.1	Rough River	499038_02	5110004	Ohio	PS						Sediment/Siltation, Nutrient/Eutroph.	Channelization, Non-Irrig Crop Prod, Confined Animal Feed. Op.'s (CAFOS)
Narge Creek	2.2 to 3.9	Pond River	499173_00	5110006	Hopkins	NS						Unknown	Channelization, Riparian Habitat Loss, Strmbank Mod/Destable., Crop Prod
Nolin River	44.0 to 93.2	Green River	499512_01	5110001	Hardin			NS				Pathogens	Agriculture
North Branch	0.0 to 12.4	South Fork Panther Crk	499538_00	5110005	Hancock	NS						Unknown	Crop Prod , Habitat Mod-not Hydro
North Fork Barnett Creek	0.0 to 2.8	Barnett Crk	499541_00	5110004	Ohio	PS						Sediment/Siltation	Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod

### Green River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
North Fork Panther Creek	0.0 to 4.2	Panther Crk	499562_01	5110005	Daviess	PS	PS					Unknown	Channelization, Irrig Crop Prod, Pasture Grazing, Non-Irrig Crop Prod
North Fork Panther Creek	4.2 to 6	Panther Crk	499562_02	5110005	Daviess	PS		NS				Pathogens, Unknown	Channelization, Unknown
North Fork Panther Creek	6.1 to 9.7	Panther Crk	499562_03	5110005	Daviess	NS						Unknown	Channelization, Unknown
North Fork Panther Creek	9.7 to 12.7	Panther Crk	499562_04	5110005	Daviess	PS	PS					Phosphorus (Total)	Channelization, Irrig Crop Prod, Non-Irrig Crop Prod
Old Panther Creek	0.4 to 5.7	Panther Crk	499866_01	5110005	Daviess	NS						Unknown	Unknown
Old Panther Creek	5.7 to 8.8	Panther Crk	499866_02	5110005	Daviess	NS						Sediment/Siltation	Habitat Mod-not Hydro
Otter Creek	0.0 to 6.2	Pond River	500023_00	5110006	Hopkins	NS						Sediment/Siltation	Channelization, Non-Irrig Crop Prod, SSO/Collect Sys Failure, Urban Stormwater
Panther Creek	0.0 to 2.7	Green River	500157_01	5110005	Daviess	NS						Sediment/Siltation, Turbidity	Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod, Urban Stormwater
Panther Creek	2.7 to 5.6	Green River	500157_02	5110005	Daviess			NS				Pathogens	Agriculture
Panther Creek	17.1 to 19.5	Green River	500157_03	5110005	Daviess	NS	NS					Sediment/Siltation, Phosphorus (Total)	Channelization, Irrig/Non-Irrig Crop Prod, Pasture Grazing, Strmbank Mod/Destable., Unknown
Pettys Fork	0.0 to 6.0	Russell Crk	500492_00	5110001	Adair	PS		NS				Sediment/Siltation, Pathogens	Range. Grazing, Unknown, Habitat Mod-not Hydro

### Green River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Pigeon Creek	0.0 to 2.9	Muddy Crk	500588_00	5110004	Ohio	PS						Sediment/Siltation, TDS	Acid Mine Drainage, Non-Irrig Crop Prod
Pleasant Run	0.0 to 2.1	Drakes Crk	500906_01	5110006	Hopkins		NS	NS	NS			Sediment/Siltation	Habitat Mod-not Hydro
Plum Creek	0.0 to 2.5	Pond Crk	500964_01	5110003	Muhlenberg	NS						Chloride, TDS	Inappropriate Waste Disposal
Plum Creek	2.5 to 4.3	Pond Crk	500964_02	5110006	Muhlenberg	NS		NS				Sediment/Siltation, Pathogens	Unknown, Habitat Mod-not Hydro
Pond Creek	0.0 to 4.7	Green River	501042_01	5110003	Muhlenberg			PS				Pathogens	Unknown
Pond Creek	4.9 to 7.5	Green River	501042_02	5110003	Muhlenberg	NS	NS					Chloride, Sediment/Siltation, Sulfates, TDS	Channel, Petroleum/Nat Gas Prod, Post-Devel. Erosion/Sediment., Strmbank Mod/Destable., Surface Mining, Inappr Waste Disposal
Pond Creek	7.5 to 11.7	Green River	501042_03	5110003	Muhlenberg	NS	NS	NS	NS			Chloride, Sediment/Siltation, Sulfates, TDS, pH	Acid Mine Drainage, Channelization, Petroleum/Nat Gas, Strmbank Mod/Destab, Surface Mining, Habitat Mod-not Hydro, Inappr. Waste Disposal
Pond Creek	11.7 to 14.3	Green River	501042_04	5110003	Muhlenberg		NS	NS	NS			Sediment/Siltation, TDS, pH	Acid Mine Drainage, Habitat Mod-not Hydro, Coal Mining

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						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Pond Creek	14.3 to 18.1	Green River	501042_05	5110003	Muhlenberg	PS	PS	NS	NS			pH	Acid Mine Drainage, Channelization, Irrig/Non-Irrig Crop Prod, Riparian Habitat Loss, Pasture Grazing, Post-Devel. Erosion/ Sediment
Pond Creek	18.1 to 21.4	Green River	501042_06	5110003	Muhlenberg	NS		NS	NS			pH, Unknown	Acid Mine Drainage, Riparian Habitat Loss, Strmbank Mod/Destable., Surface Mining, Habitat Mod-not Hydro
Pond Drain	0.0 to 2.0	Cypress Crk	490526-5.8_00	5110006	McClellan	PS						Sediment/Siltation, TDS	Riparian Habitat Loss, Non-Irrig Crop Prod
Pond River	1.0 to 20.8	Green River	501053_02	5110006	Hopkins	PS	PS					Sediment/Siltation, TDS	Heap-leach Ext Mining, Surface Mining, Habitat Mod-not Hydro
Pond River	20.8 to 31.1	Green River	501053_03	5110006	Muhlenberg	PS	PS					Sediment/Siltation	Surface Mining, Habitat Mod-not Hydro, Coal Mining (Subsurface)
Pond River	69.1 to 79.7	Green River	501053_04	5110006	Muhlenberg	PS						Sediment/Siltation	Habitat Mod-not Hydro
Poplar Grove Branch	0.0 to 3.0	Big Brush Crk	501108_00	5110001	Taylor			NS				Pathogens	Unknown
Render Creek	0.0 to 3.3	Lewis Crk	501725_00	5110003	Ohio	NS	NS	NS	NS			Sediment/Siltation, Sulfates, TDS	Channelization, Riparian Habitat Loss, Petroleum/ Natr'l Gas Prod, Post-Devel. Erosion/Sediment.

### Green River Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Con- sump- tion</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Rhodes Creek	0.0 to 2.2	Panther Crk	501759_01	5110005	Daviess	NS	NS					Phosphorus (Total)	Channelization, Irrig Crop Prod, Riparian Habitat Loss, Non-Irrig Crop Prod
Rhodes Creek	2.2 to 7.5	Green River	501759_02	5110005	Daviess	NS	NS					Sediment/Siltation, Nutrient/Eutroph., Phosphorus (Total)	Channelization, Irrig/Non-Irrig Crop Prod, Riparian Habitat Loss, Strmbank Mod/Destable., Crop Prod
Rhodes Creek	0.0 to 1.9	Green River	501760_00	5110005	Daviess	PS						Sediment/Siltation	Non-Irrig Crop Prod, Urban Stormwater
Richland Slough	0.0 to 6.2	Green River	501825_00	5110005	Henderson	NS						Sediment/Siltation	Non-Irrig Crop Prod, Agriculture
Rough River Reservoir	5100 acres	N/A	502953_00	5110004	Hardin					PS		Methyl mercury	Unknown
Russell Creek	40.0 to 41.5	Green River	502521_05	5110001	Adair			NS				Pathogens	Unknown
Salem Lake	99 acres	N/A	CLN010_00	5110001	Larue				PS			Sediment/Siltation	Grazing-Riparian Zones, Agriculture, Habitat Mod-not Hydro
Salt Lick Creek	0.0 to 1.3	Gaspar River	502826_00	5110002	Warren	NS						Sediment/Siltation, Nutrient/Eutroph.	Riparian Habitat Loss, Agriculture
Sand Lick Creek	0.0 to 3.0	Pond Crk	502963_00	5110003	Muhlenberg	PS	PS					Unknown	Riparian Habitat Loss, Pasture Grazing, Unknown
South Fork Beaver Creek	1.2 to 5.9	Beaver Crk	503906_00	5110002	Barren	PS						Unknown	Hwy/Rd/Brdg Runoff (Non-Constr), Riparian Habitat Loss, Unknown

### Green River Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
South Fork Panther Creek	0.0 to 2.4	Panther Crk	503939_01	5110005	Daviess	PS	PS	NS				Copper, Sediment/Siltation, Pathogens, Nutrient/Eutroph., Phosphorus (Total)	Irrig/Non-Irrig Crop Prod, Riparian Habitat Loss, Silviculture, Strmbank Mod/Destable., Unknown
South Fork Panther Creek	2.4 to 9.6	Panther Crk	503939_02	5110005	Daviess	NS						Unknown	Channelization, Wet Weather Dischrge. (Pt. Source/Combination Stormwater, SSO/CSO), Unknown
South Fork Panther Creek	9.6 to 13.5	Panther Crk	503939_03	5110005	Daviess	PS	PS	NS				Sediment/Siltation, Pathogens, Phosphorus (Total)	Channelization, Irrig Crop Prod, Pasture Grazing, Non-Irrig Crop Prod, Agriculture, Habitat Mod-not Hydro
South Fork Panther Creek	13.5 to 17.7	Panther Crk	503939_04	5110005	Daviess			NS				Pathogens	Unknown
Spa Lake	240 acres	N/A	CLN005_00	5110003	Logan				PS			Sediment/Siltation	Natr'l Sources, Agriculture
Sputzman Creek	1.0 to 4.1	Green River	504196_00	5110005	Henderson	PS	PS					Nutrient/Eutroph.	Impacts fr. Hydrostructure Flow Reg/Mod, Livestock-Grazing/Feed. Op's, Crop Prod
Sunfish Creek	6.6 to 9.7	Bear Crk	504792_00	5110001	Grayson	PS						Sediment/Siltation	Riparian Habitat Loss, Strmbank Mod/Destable., Agriculture

### Green River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Sweepstakes Branch	1.0 to 3.8	South Fork Panther Crk	504845_00	5110005	Daviess	PS	PS					Nutrient/Eutroph.	Channelization, Irrig/non-Irrig Crop Prod, Riparian Habitat Loss, Strmbank Mod/Destable.
Sycamore Creek	0.0 to 1.5	Bear Crk	504864_00	5110001	Edmonson	NS						Unknown	Habitat Mod-not Hydro
Taylor Fork	0.0 to 4.0	Bear Crk	505019_00	5110001	Grayson	NS						Sediment/Siltation	Pasture Grazing, Urban Stormwater
Three Lick Fork	0.0 to 3.3	Muddy Crk	505247_00	5110004	Ohio	NS						Sediment/Siltation, Nutrient/Eutroph.	Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod, Surface Mining
Town Branch	0.0 to 6.7	Mud River	505385_00	5110003	Logan					NS		PCBs	Indus. Pt. Source Dischrge
UT to Butler Branch	0.0 to 1.7	Butler Branch	488506-1.3_00	5110001	Adair	PS						Sediment/Siltation	Riparian Habitat Loss, Pasture Grazing
UT to Cool Springs Creek	0.0 to 1.6	Cool Springs Crk	490021-2.6_00	5110001	Adair	NS						Sediment/Siltation	Riparian Habitat Loss, Agriculture
UT to Cypress Creek	0.0 to 1.6	Cypress Crk	490526-28.4_00	5110006	Muhlenberg	PS	PS					Sediment/Siltation	Irrig Crop Prod, Riparian Habitat Loss, Pasture Grazing, Non-Irrig Crop Prod, Urban Stormwater
UT to Elk Creek	0.0 to 1	Elk Crk	491656-8.8_01	5110006	Hopkins			NS				Pathogens	SSO/Collect Sys Failure
UT to Flat Creek	0.0 to 3.1	Flat Crk	492181-1.9_01	5110006	Hopkins	NS						Unknown	Surface Mining
UT to Flat Creek	3.1 to 4.1	Flat Crk	492181-1.9_02	5110006	Hopkins			NS				Pathogens	SSO/Collect Sys Failure



### Green River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
UT to Pond Creek	0.0 to 2.3	Pond Crk	493284-47.3-8.8_00	5110003	Muhlenberg	NS						Unknown	Surface Mining
UT to West Fork Lewis Creek	0.0 to 2.2	West Fork Lewis Crk	506436-1.4_00	5110003	Ohio	NS						Unknown	Habitat Mod-not Hydro
UT to Wiggington Creek	0.9 to 1.9	Wiggington Crk	506716-3.5_00	5110002	Logan	NS						Unknown	Riparian Habitat Loss, Strmbank Mod/Destable, Unknown, Crop Prod, Habitat Mod-not Hydro
Valley Creek	0.0 to 3.5	Nolin River	505940_01	5110001	Hardin	PS	PS	NS				Pathogens, Unknown	Unknown
Valley Creek	8.0 to 10.3	Nolin River	505940_02	5110001	Hardin	NS						Sediment/Siltation, Nutrient/Eutroph., Unknown	Hwy/Rd/Brdg Runoff, Indus.Pt. Source Dischrge, Riparian Habitat Loss, Strmbank Mod/Destabal., Livestock- Grazing /Feed. Op's, Crop Prod
Valley Creek	10.3 to 11.8	Nolin River	505940_03	5110001	Hardin			NS				Pathogens	Unknown
West Fork Drakes Creek	0.0 to 9.9	Drakes Crk	506431_01	5110002	Warren					PS		PCBs	Indus. Pt. Source Dischrge
West Fork Drakes Creek	9.9 to 23.4	Drakes Crk	506431_02	5110002	Simpson					PS		PCBs	Indus. Pt. Source Dischrge
West Fork Pond River	1.6 to 8.9	Pond River	506444_01	5110006	Christian	PS						Unknown	Habitat Mod-not Hydro
West Fork Pond River	19.6 to 26	Pond River	506444_03	5110006	Christian	NS						Unknown	Livestock-Grazing/Feed. Op's, Habitat Mod-not Hydro

### Green River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Wolf Branch Ditch	0.0 to 4.1	Rhodes Crk	501759-2.6_00	5110005	Daviess	PS	PS					Sediment/Siltation, Nutrient/Eutroph., Phosphorus (Total)	Channelization, Irrig Crop Prod, Riparian Habitat Loss, Non-Irrig Crop Prod
Wolf Lick Creek	3.3 to 13.7	Mud River	507017_00	5110003	Logan	PS						Sediment/Siltation	Habitat Mod-not Hydro
<b>Ohio River Tributaries</b>													
Bayou Creek	0.0 to 17.3	Ohio River	510435_00	5140203	Livingston	NS						Sediment/Siltation, Org.Enrich. (Sewage)	Riparian Habitat Loss, Unknown
Bear Run	1.5 to 1.9	Clover Crk	486575_00	5140201	Breckinridge	NS						Sediment/Siltation, Nutrient/Eutroph.	Riparian Habitat Loss, Pasture Grazing, Silviculture
Blackford Creek	3.6 to 8.0	Ohio River	487412_02	5140201	Hancock	PS						Unknown	Channelization, Unknown
Canoe Creek	0.0 to 3.9	Wilson Crk	488897_01	5140202	Henderson		NS	NS				Chromium (total), Copper, Pathogens, Zinc	Unknown
Casey Creek	0.6 to 9.5	Highland Crk	489044_00	5140202	Union	NS						TDS	Channelization, Wetland Loss, Dredging , Hydrostructure Impacts, Flow Reg/Mod, Irrig Crop Prod, Riparian Habitat Loss, Pet/Natr'l Gas Prod, Strmbank Mod/Destab.

### Green River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Clover Creek	7.8 to 9.2	Ohio River	489703_00	5140201	Breckinridge	PS						Sediment/Siltation	Impacts fr. Hydrostructure Flow Reg/Mod, Livestock-Grazing /Feed. Op's, Crop Prod
Crooked Creek	0.0 to 11.7	Ohio River	511649_01	5140203	Crittenden	PS						Nutrient/Eutroph.	Unknown
Crooked Creek	22.7 to 23.7	Ohio River	511649_03	5140203	Crittenden			NS				Pathogens	SSO
Deer Creek	0.0 to 7.9	Ohio River	490770_01	5140203	Livingston	NS						Unknown	Agriculture
Goose Pond Ditch/Wardens Slough	0.0 to 14	Ohio River	452377-114.5_00	5140203	Union	NS						Unknown	Riparian Habitat Loss, Strmbank Mod/Destable., Crop Prod
Highland Creek	0.0 to 7.1	Ohio River	494210_00	5140202	Union	PS	PS	NS				Pathogens, Unknown	Hwys/Rd/Brdgs Infrastructure (New Construction), Riparian Habitat Loss, Strmbank Mod/Destable., Agriculture
Rush Creek	0.0 to 1.3	Crooked Crk	511649-17.5_00	5140203	Crittenden	PS						Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge, Urban Stormwater
Scenic Lake	18 acres	N/A	503039_00	5140202	Henderson		PS					Nutrient/Eutroph.	Contaminated Sediments, Internal Nutrient Recycling
Sugg Creek	0.0 to 1.4	Cypress Crk	504712_00	5140203	Union	NS						Sediment/Siltation, Turbidity	Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod

### Green River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources

Tradewater River Basin													
Bishop Ditch	3.0 to 5.7	Caney Fork	KY0022_00	5140205	Webster	NS						Sediment/Siltation, Turbidity, Nutrient/Eutroph.	Animal Feed. Op.'s, Heap-leach Ext Mining, Non-Irrig Crop Prod
Buffalo Creek	0.0 to 6.7	Tradewater River	488316_00	5140205	Hopkins	PS						Sediment/Siltation, TDS,	Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod, Unknown
Bull Creek	0.0 to 1.0	Slover Crk	488350_00	5140205	Webster	PS						Sediment/Siltation	Channelization, Non-Irrig Crop Prod, Habitat Mod-not Hydro
Caney Creek	0.0 to 3.3	Donaldson Crk	488830_00	5140205	Caldwell	NS						Sediment/Siltation, Nutrient/Eutroph.	Riparian Habitat Loss, Non-Irrig Crop Prod, Unknown
Caney Creek	0.0 to 8.8	Tradewater River	488837_00	5140205	Hopkins	NS		NS	NS			Sediment/Siltation, pH	Acid Mine Drainage, Channelization, Riparian Habitat Loss, Surface Mining
Caney Fork	3.5 to 7.9	Craborchard Crk	488863_00	5140205	Webster	PS						Sediment/Siltation, Nutrient/Eutroph.,	Impacts fr. Hydrostructure Flow Reg/Mod, Non-Irrig Crop Prod
Castleberry Creek	0.0 to 2.2	Tradewater River	489704_00	5140205	Christian	PS						Sediment/Siltation, TDS, Turbidity, Nutrient/Eutroph.	Riparian Habitat Loss, Pasture Grazing
Clear Creek	0.0 to 2.7	Tradewater River	489610_01	5140205	Hopkins		NS					Org.Enrich. (Sewage)	Unknown

### Green River Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Clear Creek	19.1 to 25.5	Tradewater River	489610_02	5140205	Hopkins	PS						Sediment/Siltation, Org.Enrich. (Sewage)	Channelization, Surface Mining, Unknown, Non-Native Organisms (Intro.)
Clear Creek	25.5 to 26.5	Tradewater River	489610_03	5140205	Hopkins			NS				Pathogens	SSO/Collect Sys Failure
Copper Creek	0.0 to 1.1	Richland Crk	490078_00	5140205	Hopkins		NS	NS	NS			Iron, TDS, Zinc, pH	Unknown
Copperas Creek	0.0 to 3.1	Caney Crk	490083_00	5140205	Hopkins		NS	NS	NS			Cadmium, Iron, Nickel, TDS, Zinc, pH	Unknown
Craborchard Creek	1.4 to 8.8	Tradewater River	490248_01	5140205	Webster			NS				Pathogens	Unknown
Craborchard Creek	13.2 to 15.3	Tradewater River	490248_02	5140205	Webster	PS						Sediment/Siltation, Nutrient/Eutroph.	Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod
Cypress Creek	0.0 to 2.3	Tradewater River	490527_00	5140205	Union			NS				Pathogens	Unknown
Hurricane Creek	0.7 to 2.2	Tradewater River	494821_00	5140205	Hopkins		NS	NS	NS			Iron, TDS, Zinc, pH	Unknown
Lake Peewee	360 acres	N/A	500353_00	5140205	Hopkins						PS	Nutrient/Eutroph.	Agriculture
Lambs Creek	0.0 to 3.5	Clear Crk	495942_00	5140205	Hopkins	PS						Sediment/Siltation, TDS, Nutrient /Eutroph.	Channelization, Riparian Habitat Loss, Surface Mining, Unknown
Lick Creek	0.0 to 12.1	Clear Crk	496487_00	5140205	Hopkins	NS						Sediment/Siltation	Surface Mining

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Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Lynn Fork	0.0 to 2.4	Craborchard Crk	497379_00	5140205	Webster	PS						Sediment/Siltation	Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod
Pigeonroost Creek	0.9 to 3.9	Tradewater River	500604_00	5140205	Crittenden	PS						Sediment/Siltation, Nutrient/Eutroph.	Agriculture
Pond Creek	0.0 to 5.5	Clear Crk	501043_00	5140205	Hopkins	PS						Sediment/Siltation, Turbidity	Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod, Surface Mining
Richland Creek	0.0 to 4.4	Clear Crk	501821_00	5140205	Hopkins	NS						Sediment/Siltation	Channelization, Riparian Habitat Loss, Pasture Grazing
Tradewater River	0.0 to 16.7	Ohio River	505460_01	5140205	Union			NS				Pathogens	Agriculture
Tradewater River	63.1 to 93.9	Ohio River	505460_03	5140205	Hopkins	PS						Sediment/Siltation	Surface Mining
Tyson Branch	0.0 to 2.5	Tradewater River	505754_00	5140205	Caldwell	NS						Unknown	Habitat Mod-not Hydro
UT to Clear Creek	0.0 to 2.2	Clear Crk	489610-25.2_01	5140205	Hopkins			NS				Pathogens	Package Plant/Other Small Dischrge, SSO/Collect Sys Failure
UT to Slover Creek	0.2 to 1.2	UT to Slover Crk	503714-3.4-0.2_00	5140205	Webster	NS						Sediment/Siltation, TDS	Channelization, Surface Mining, Agriculture
Ward Creek	4.9 to 10.1	Flynn Fork	506219_00	5140205	Caldwell	NS						Unknown	Habitat Mod-not Hydro
Weirs Creek	0.0 to 5.0	Clear Crk	506359_00	5140205	Hopkins	NS						Sediment/Siltation, Turbidity, Nutrient/Eutroph.	Channelization, Riparian Habitat Loss, Non-Irrig Crop Prod

**Green River Basin Management Unit 303(d) List**

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Con- sump- tion</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Wolf Creek	0.0 to 1.2	Tradewater River	506998_00	5140205	Crittenden	NS						Unknown	Riparian Habitat Loss, Non-Irrig Crop Prod, Unknown

**Sandy-Tygarts Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources

<b>Big Sandy River Basin</b>													
Arkansas Creek	0.0 to 3.6	Beaver Crk	486027_01	5070203	Floyd	NS						Sediment/Siltation, Sulfates, TDS, Org.Enrich. (Sewage), Phos (Total)	Septic Tanks/Decentral. Systems Post-Devel. Erosion/Sediment., Surface Mining, Habitat Mod-not Hydro, Urb. Stormwater
Arnold Fork	0.0 to 2.6	Right Fork Beaver Crk	486053_01	5070203	Knott	NS						Sediment/Siltation, Sulfates, TDS	Petroleum/Nat. Gas Prod, Post-Devel Erosion/Sediment, Subsurface Mining, Hab Mod-not Hydro, Unspec Urb Stormwater
Barnetts Creek	0.0 to 1.6	Paint Crk	486411_01	5070203	Johnson	PS						Sediment/Siltation	Subsurface Mining, Surface Mining
Bear Creek	0.0 to 1.9	Big Sandy River	486557_01	5070204	Lawrence	PS	PS	NS				Sediment/Siltation, Pathogens, Org.Enrich. (Sewage)	Animal Feed. Op.'s, Septic Tanks/Decentral. Systems Habitat Mod-not Hydro
Beaver Creek	0.0 to 7.1	Levisa Fork	486610_01	5070203	Floyd	PS		NS				Sediment/Siltation, Pathogens	Onsite Treatment Systems, Surface Mining
Big Creek	0.0 to 1.9	Tug Fork	487161_01	5070201	Pike			NS				Pathogens	Septic Tanks/Decentral. Systems
Big Creek	7.3 to 10.7	Tug Fork	487161_02	5070201	Pike	PS						Sediment/Siltation, TDS, Org.Enrich. (Sewage)	Riparian Habitat Loss, Septic Tanks/Decentral. Systems Surface Mining



**Sandy-Tygarts Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Big Creek	10.7 to 15.1	Tug Fork	487161_03	5070201	Pike	PS						Sediment/Siltation, TDS, Org.Enrich. (Sewage)	Hwy/Rd/Brdg Runoff (Non-Constr), Riparian Habitat Loss, Septic Tanks/Decentral. Systems Post-Devel. Erosion/Sediment., Surface Mining
Big Mine Creek	1.4 to 3.9	Little Paint Crk	487221_01	5070203	Magoffin	PS		PS	PS			Sediment/Siltation, pH, Org.Enrich. (Sewage)	Subsurface Mining, Surface Mining, Agriculture, Inappropriate Waste Disposal, Silviculture
Big Mine Creek	5.8 to 8.4	Little Paint Crk	487221_02	5070203	Magoffin	PS						Sediment/Siltation	Riparian Habitat Loss, Pasture Grazing
Big Sandy River	0.0 to 27.1	Ohio River	487249_01	5070204	Boyd	PS						Sediment/Siltation,	Resource Extraction
Bill D Branch	0.0 to 1.1	Right Fork Beaver Crk	487299_01	5070203	Knott	NS						Sediment/Siltation, TDS	Petroleum/ Nat'l Gas Prod, Post-Devel. Erosion/Sediment., Subsurface Mining, Habitat Mod-not Hydro, Urban Stormwater

**Sandy-Tygarts Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Blaine Creek	8.1 to 17.4	Big Sandy River	487428_01	5070204	Lawrence	NS	NS					Sediment/Siltation, Nutrient/Eutroph.	Riparian Habitat Loss, Pasture Grazing, Septic Tanks/Decentral. Systems Post-Devel. Erosion/Sediment., Strmbank Mod/Destable.
Blaine Creek	35.0 to 40.8	Big Sandy River	487428_02	5070204	Lawrence			NS				Pathogens	Septic Tanks/Decentral. Sys )
Blaine Creek	41.6 to 43.0	Big Sandy River	487428_03	5070204	Lawrence	PS						Sediment/Siltation	Heap-leach Ext Mining
Blaine Creek	44.0 to 48.4	Big Sandy River	487428_04	5070204	Lawrence	NS		NS	NS			Sediment/Siltation, pH, Org.Enrich. (Sewage)	Subsurface Mining, Surface Mining, Agriculture, Inappropriate Waste Disposal, Silviculture
Brushy Fork	0.0 to 10.0	John's Crk	488137_01	5070203	Pike	NS						Sediment/Siltation, TDS, Nutrient/Eutroph.	Riparian Habitat Loss, Pasture Grazing, Surface Mining, Unknown
Buck Branch	0.0 to 2.8	Blaine Crk	488192_01	5070203	Floyd	NS						Sediment/Siltation, Sulfates, Org.Enrich. (Sewage)	Heap-leach Ext Mining, Septic Tanks/Decentral. Systems Post-Devel. Erosion/Sediment., Habitat Mod-not Hydro, Urban Stormwater
Buffalo Creek	0.0 to 1.8	Levisa Fork	488317_01	5070203	Floyd	NS						Sediment/Siltation	Subsurface Mining, Surface Mining

**Sandy-Tygarts Basin Management Unit 303(d) List**

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Caleb Fork	0.0 to 1.2	Left Fork Beaver Crk	488598_01	5070203	Floyd	NS						Ammonia (Un-ionized), Sediment/Siltation, Sulfates, TDS, Org.Enrich. (Sewage), Phosphorus (Total)	Septic Tanks/Decentral. Systems Petroleum/ Nat'l Gas Prod, Post-Devel. Erosion/Sediment., Subsurface Mining, Habitat Mod-not Hydro, Urban Stormwater
Clear Creek	0.0 to 4.9	Left Fork Beaver Crk	489611_01	5070203	Floyd	NS						Sediment/Siltation, Sulfates, TDS	Petroleum/ Nat'l Gas Prod, Post-Devel. Erosion/Sediment., Subsurface Mining, Habitat Mod-not Hydro, Urban Stormwater
Coldwater Fork	2.1 to 8.8	Middle Fork Rockcastle	489804_01	5070201	Martin	PS						Sediment/Siltation, Sulfates, TDS	Channelization, Dredging Hwy/Rd/Brdg Runoff , Impacts Aband. Mine Lands, Riparian Habitat Loss, Other Spill Impacts, Surface Mining, Sediment Resuspension (Contaminated), Urban Stormwater
Dewey Lake	1100 acres	N/A	490849_00	5070203	Floyd				PS			TSS	Surface Mining

**Sandy-Tygarts Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Dry Creek	0.0 to 4.0	Right Fork Beaver Crk	491166_01	5070203	Knott	PS						Sediment/Siltation, Sulfates, TDS	Pasture Grazing, Petroleum/ Nat'l Gas Prod, Post-Devel. Erosion/Sediment., Subsurface Mining, Habitat Mod-not Hydro
Elkhorn Creek	0.0 to 10.6	Russel Fork	509461_00	5070202	Pike	PS	PS	NS				Sediment/Siltation, TDS, Pathogens	Septic Tanks/Decentral. Systems Surface Mining
Frasure Branch	0.0 to 5.2	Left Fork Beaver Crk	492466_01	5070203	Floyd	PS						Sediment/Siltation, Sulfates, TDS, Org.Enrich. (Sewage)	Septic Tanks/Decentral. Systems Petroleum/ Nat'l Gas Prod, Post-Devel. Erosion/Sediment, Subsurface Mining, Habitat Mod-not Hydro, Urban Stormwater
Georges Creek	0.0 to 0.9	Levisa Fork	492787_01	5070203	Lawrence	PS						Sediment/Siltation	Subsurface Mining, Surface Mining
Goose Creek	0.0 to 2.2	Right Fork Beaver Crk	493011_01	5070203	Floyd	NS						Sediment/Siltation, Sulfates, Unknown	Petroleum/ Nat'l Gas Prod, Post-Devel. Erosion/Sediment., Subsurface Mining, Habitat Mod-not Hydro
Greasy Creek	0.0 to 4.8	Levisa Fork	493231_01	5070203	Johnson	PS						Sediment/Siltation, Org.Enrich. (Sewage)	Municipal Pt. Source Dischrge, Subsurface Mining, Surface Mining
Hood Creek	0.0 to 3.6	Blaine Crk	494493_01	5070204	Lawrence	PS						Sediment/Siltation, Unknown	Heap-leach Ext Mining, Landfills, Silviculture, Urban Stormwater

**Sandy-Tygarts Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Ice Dam Creek	0.0 to 0.4	Big Sandy River	494876_01	5070204	Boyd	NS						Sediment/Siltation, Sulfates, Nitrogen (Total), Unknown	Indus. Pt. Source Dischrg., Septic Tanks/Decentral. Systems Post-Devel. Erosion/Sediment., Habitat Mod-not Hydro, Urban Stormwater
Ice Dam Creek	0.4 to 2.4	Big Sandy River	494876_02	5070204	Boyd	NS						Sediment/Siltation, Sulfates, TDS, Nitrogen (Total), Unknown	Indus. Pt. Source Dischrg., Septic Tanks/Decentral. Systems Post-Devel. Erosion/Sediment., Habitat Mod-not Hydro, Urban Stormwater
Indian Creek	0.0 to 3.5	Long Fork	494929_01	5070202	Pike	PS						Sediment/Siltation, TDS	Channelization, Hwy/Rd/Brdg Runoff, Riparian Habitat Loss, Post-Devel. Erosion/Sediment., Strmbank Mod/Destab., Surface Mining
Island Creek	0.0 to 1.7	Levisa Fork	495043_01	5070203	Pike	PS						Sediment/Siltation, TDS	Surface Mining
Jacks Branch	0.0 to 4.4	Left Fork Beaver Crk	495089_01	5070203	Floyd	NS						Sediment/Siltation, Sulfates, Unknown	Petroleum/ Nat'l Gas Prod, Post-Devel. Erosion/Sediment., Subsurface Mining, Habitat Mod-not Hydro

### Sandy-Tygart Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Jennys Creek	5.3 to 10.8	Paint Crk	495218_01	5070203	Johnson	NS						Sediment/Siltation	Land Clearance (Devel./Redevelop.), Subsurface Mining, Surface Mining
Johns Branch	0.0 to 1.6	Right Fork Beaver Crk	495341_01	5070203	Floyd	NS						Sediment/Siltation, Sulfates	Post-Devel. Erosion/Sediment., Subsurface Mining, Habitat Mod-not Hydro
Johns Creek	0.0 to 5.8	Levisa Fork	495347_01	5070203	Floyd	NS						Sediment/Siltation, TDS	Impacts fr. Hydrostructure Flow Reg/Mod, Subsurface Mining, Surface Mining, Upstream Impound.
Johns Creek	24.0 to 30.7	Levisa Fork	495347_02	5070203	Pike	PS	PS	NS				Sediment/Siltation, Pathogens	Septic Tanks/Decentral. Systems Surface Mining
Johns Creek	34.4 to 42.5	Levisa Fork	495347_03	5070203	Pike	NS						Sediment/Siltation, TDS	Riparian Habitat Loss, Post-Devel. Erosion/Sediment., Surface Mining
Jones Fork	0.0 to 9.4	Right Fork Beaver Crk	495499_01	5070203	Knott	PS						Sediment/Siltation, Sulfates, TDS	Petroleum/ Nat'l Gas Prod, Post-Devel. Erosion/Sediment., Subsurface Mining, Habitat Mod-not Hydro
Knox Creek	0.0 to 7.6	Tug Fork	495859_01	5070201	Pike	PS		PS				Sediment/Siltation, Water Temperature, Pathogens	Dredging , Septic Tanks/Decentral. Systems Unknown, Habitat Mod-not Hydro

**Sandy-Tygarts Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Left Fork Beaver Creek	0.0 to 11.4	Beaver Crk	496194_01	5070203	Knott	PS						Sediment/Siltation, Sulfates, TDS	Rip Habitat Loss, Pet/ Nat'l Gas Prod, Post-Devel. Erosion/Sed, Subsurface Mining, Surface Mining, Crop Prod , Urban Stormwater
Left Fork Beaver Creek	13.6 to 18.7	Beaver Crk	496194_02	5070203	Knott	PS						Sediment/Siltation, TDS, Org.Enrich. (Sewage)	Riparian Habitat Loss, Septic Tanks/Decentral. Systems Post-Devel. Erosion/Sediment., Surface Mining
Left Fork Blaine Creek	0.0 to 2.1	Blaine Crk	496199_00	5070204	Lawrence	NS		NS	NS			Sediment/Siltation, pH, Org.Enrich. (Sewage)	Subsurface Mining, Surface Mining, Agriculture, Inappropriate Waste Disposal, Silviculture
Left Fork Middle Creek Levisa Fork	0.0 to 8.4	Middle Creek Levisa Fork	496241_01	5070203	Floyd		NS	NS	NS			Sulfates, TDS, pH, Unknown	Surface Mining
Levisa Fork	5.8 to 15.3	Big Sandy River	496312_02	5070203	Lawrence	PS	NS			PS		Sediment/Siltation, TDS, Methyl mercury, PCBs	Surface Mining, Unknown
Levisa Fork	65.2 to 99.9	Big Sandy River	496312_04	5070203	Johnson			NS				Pathogens	Septic Tanks/Decentral. Systems Urban Runoff/Storm Sewers

**Sandy-Tygarts Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Levisa Fork	116.0 to 124.4	Big Sandy River	496312_05	5070202	Pike		NS	PS				Sediment/Siltation, Pathogens	Septic Tanks/Decentral. Systems Surface Mining, Sewage Dischrge./Unsewered Areas
Little Paint Creek	3.2 to 6.4	Paint Crk	496821_01	5070203	Johnson	PS						Sediment/Siltation	Riparian Habitat Loss, Post-Devel. Erosion/Sediment.
Little Paint Creek	6.4 to 11.6	Paint Crk	496821_02	5070203	Johnson	PS		NS	NS			Sediment/Siltation, pH, Org.Enrich. (Sewage)	Subsurface Mining, Surface Mining, Agriculture, Inappropriate Waste Disposal, Silviculture
Long Branch	0.0 to 2.0	Johns Creek	497083_01	5070203	Floyd	NS						Sediment/Siltation, Water Temperature, TDS	Channelization, Riparian Habitat Loss, Surface Mining
Lower Laurel Fork	0.0 to 7.9	Blaine Crk	497292_01	5070204	Lawrence	PS						Sediment/Siltation, Nutrient/Eutroph., Unknown	Heap-leach Ext Mining, Landfills, Unknown, Silviculture, Urban Stormwater
Marrowbone Creek	1.4 to 11.3	Russel Fork	497561_01	5070202	Pike	PS						Sediment/Siltation, TDS	Channelization, Hwy/Rd/Brdg Runoff (Non-Constr), Riparian Habitat Loss, Post-Devel. Erosion/Sediment., Surface Mining
Middle Creek Levisa Fork	0.0 to 4.5	Levisa Fork	498108_01	5070203	Floyd	PS						Sediment/Siltation, Unknown	Subsurface Mining, Surface Mining, Unknown



### Sandy-Tygarts Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Middle Fork Rockcastle Creek	0.0 to 16.8	Rockcastle Crk	498137_01	5070201	Martin	PS						Sediment/Siltation, Sulfates, TDS	Channelization, Dredging Hwy/Rd/Brdg Runoff-Not Construction, Riparian Habitat Loss, Silviculture, Surface Mining, Urban Stormwater
Miller Creek	0.0 to 6.4	Levisa Fork	498337_01	5070203	Johnson	NS						Sediment/Siltation, TDS, Org.Enrich. (Sewage)	Riparian Habitat Loss, Septic Tanks/Decentral. Systems Post-Devel. Erosion/Sediment., Surface Mining
Mud Creek	0.0 to 2.7	Levisa Fork	498983_00	5070203	Floyd	NS						Sediment/Siltation, Turbidity	Riparian Habitat Loss, Strmbank Mod/Destable.
Nats Creek	0.0 to 3.1	Levisa Fork	499185_01	5070203	Lawrence	PS						Sediment/Siltation	Subsurface Mining, Surface Mining
Open Fork Paint Creek	6.4 to 11.3	Paint Crk	499953_01	5070203	Morgan	PS		NS	NS			Sediment/Siltation, pH, Org.Enrich. (Sewage)	Subsurface Mining, Surface Mining, Agriculture, Inappropriate Waste Disposal, Silviculture
Otter Creek	0.0 to 0.5	Left Fork Beaver Crk	500021_01	5070203	Floyd	NS						Ammonia (Un-ion), Sediment/Siltation, TDS, Org.Enrich. (Sewage), Nitrogen (Total), Phosphorus (Total)	Septic Tanks/Decentral. Systems Petroleum/ Natr'l Gas Prod, Post-Devel.. Erosion/Sediment., Subsurface Mining, Habitat Mod-not Hydro, Urban Stormwater

### Sandy-Tygarts Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Con-sumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Paddle Creek	0.0 to 1.4	Ice Dam Crk	500100_01	5070204	Boyd	NS						Sediment/Siltation, Sulfates, TDS, Org.Enrich. (Sewage)	Indus. Pt. Source Dischrg, Post-Devel. Erosion/Sediment., Habitat Mod-not Hydro, Urban Stormwater
Paint Creek	0.0 to 7.9	Levisa Fork	500114_01	5070203	Johnson	NS	NS	NS				Sediment/Siltation, Water Temp, Pathogens, Org.Enrich. (Sewage)	Septic Tanks/Decentral. Systems Post-Devel. Erosion/Sediment., Upstream Impound.
Paintsville Reservoir	1139 acres	N/A	509958_00	5070203	Johnson					PS		Methyl mercury	Unknown
Panther Fork	0.0 to 3.7	Wolf Crk	500162_01	5070201	Martin	PS						Sediment/Siltation, Sulfates, TDS	Hwy/Rd/Brdg Runoff (Non-Constr), Surface Mining
Peter Creek	0.0 to 5.8	Tug Fork	500467_01	5070201	Pike	NS						Sediment/Siltation	Subsurface Mining, Surface Mining
Pigeonroost Fork	0.0 to 1.3	Wolf Crk	500606_01	5070201	Martin	NS						Sediment/Siltation	Subsurface Mining, Surface Mining
Pond Creek	3.4 to 9.7	Tug Fork	501044_01	5070201	Pike	PS						Sediment/Siltation, TDS, Org.Enrich. (Sewage)	Riparian Habitat Loss, Septic Tanks/Decentral. Systems Post-Devel. Erosion/Sediment., Surface Mining

**Sandy-Tygarts Basin Management Unit 303(d) List**

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Puncheon Branch	0.0 to 3.6	Right Fork Beaver Crk	501437_01	5070203	Knott	PS						TDS, Org.Enrich. (Sewage)	Septic Tanks/Decentral. Systems Petroleum/ Nat'l Gas Prod, Subsurface Mining, Habitat Mod-not Hydro, Urban Stormwater
Raccoon Creek	5.6 to 7.4	John's Crk	501505_01	5070203	Pike	PS						Sediment/Siltation, TDS	Riparian Habitat Loss, Post-Devel. Erosion/Sediment., Surface Mining
Right Fork Beaver Creek	0.0 to 17.4	Beaver Crk	501863_01	5070203	Floyd	PS	PS	NS	NS			Sediment/Siltation, Sulfates, TDS, Pathogens, pH, Org.Enrich. (Sewage)	Acid Mine Drainage, Channelization, Riparian Habitat Loss, Pasture Grazing, Petroleum/ Nat'l Gas Prod, Post-Devel. Erosion/Sediment., Subsurface Mining, Surface Mining, Inapp Waste Disposal, Silviculture
Right Fork Beaver Creek	30.3 to 33.4	Beaver Crk	501863_02	5070203	Knott	PS						Sediment/Siltation, TDS, Org.Enrich. (Sewage)	Riparian Habitat Loss, Septic Tanks/Decentral. Systems Post-Devel. Erosion/Sediment., Surface Mining

**Sandy-Tygarts Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Rock Fork	0.0 to 7.0	Right Fork Beaver Crk	502115_01	5070203	Floyd	PS						Sediment/Siltation, Sulfates, TDS	Petroleum/ Nat'l Gas Prod, Post-Devel. Erosion/Sediment., Subsurface Mining, Habitat Mod-not Hydro, Urban Stormwater
Rockcastle Creek	0.0 to 3.7	Tug Fork	502158_01	5070201	Lawrence	PS	PS					Sediment/Siltation, TDS	Post-Devel. Erosion/Sediment., Surface Mining
Rockcastle Creek	3.7 to 13.3	Tug Fork	502158_02	5070201	Martin	PS						Sediment/Siltation, Sulfates, TDS	Channelization, Dredging Hwy/Rd/Brdg Runoff, Surface Mining, Sediment Resuspension (Contaminated), Urban Stormwater
Rockcastle Creek	13.3 to 15.3	Tug Fork	502158_03	5070201	Martin	NS						Sediment/Siltation	Subsurface Mining, Surface Mining
Rockhouse Fork	0.0 to 6.3	Rockcastle Crk	502205_01	5070201	Martin	PS						Sediment/Siltation, TDS	Riparian Habitat Loss, Post-Devel. Erosion/Sediment., Surface Mining
Russell Fk	0.0 to 4.2	Levisa Fork	502524_01	5070202	Pike			NS				Pathogens	Septic Tanks/Decentral. Sys
Salisbury Branch	0.0 to 1.8	Right Fork Beaver Crk	502805_01	5070203	Knott	PS						Sulfates, TDS, Nutrient/Eutroph.	Petroleum/ Nat'l Gas Prod, Subsurface Mining, Habitat Mod-not Hydro, Urban Stormwater

**Sandy-Tygarts Basin Management Unit 303(d) List**

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Con-sump-tion</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Salt Lick Creek	0.0 to 6.8	Right Fork Beaver Crk	502845_01	5070203	Floyd	PS						Sediment/Siltation, Sulfates, Unknown	Petroleum/ Natr'l Gas Prod, Post-Devel. Erosion/Sediment., Subsurface Mining, Habitat Mod-not Hydro
Shelby Creek	0.0 to 6.1	Levisa Fork	503319_01	5070202	Pike	PS	PS					Sediment/Siltation, TDS	Surface Mining
Shelby Creek	6.1 to 13.3	Levisa Fork	503319_02	5070202	Pike	PS						Sediment/Siltation, Org.Enrich. (Sewage)	Riparian Habitat Loss, Septage Disposal
Simpson Branch	0.0 to 1.8	Left Fork Beaver Crk	503532_01	5070203	Floyd	PS						Sediment/Siltation, TDS, Org.Enrich. (Sewage)	Septic Tanks/Decentral. Systems Petroleum/ Natr'l Gas Prod, Post-Devel. Erosion/ Sediment., Subsurface Mining, Habitat Mods, Urban Stormwater
Sizemore Branch	0.0 to 2.0	Left Fork Beaver Crk	503590_01	5070203	Floyd	NS						Sulfates, TDS	Petroleum/ Natr'l Gas Prod, Subsurface Mining, Habitat Mod-not Hydro, Urban Stormwater
Spewing Camp Branch	0.0 to 3.1	Left Fork Beaver Crk	504061_01	5070203	Floyd		NS	NS	NS			Sulfates, TSS, pH, Unknown	Surface Mining

**Sandy-Tygarts Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Steele Creek	0.0 to 2.4	Right Fork Beaver Crk	504308_01	5070203	Floyd	NS						Sediment/Siltation, Sulfates, TDS, Org.Enrich. (Sewage)	Septic Tanks/Decentral. Systems Post-Devel. Erosion/Sediment., Subsurface Mining, Surface Mining, Habitat Mod-not Hydro, Urban Stormwater
Stephens Branch	0.0 to 2.6	Right Fork Beaver Crk	504331_01	5070203	Floyd	NS						Ammonia (Un-ionized), Sediment/Siltation, Sulfates, Org.Enrich. (Sewage)	Indus. Pt. Source Dischrge, Pasture Grazing, Septic Tanks/Decentral. Systems Surface Mining, Habitat Mod-not Hydro, Urban Stormwater
Toms Creek	0.0 to 8.0	Levisa Fork	505352_01	5070203	Johnson	PS						Sediment/Siltation	Subsurface Mining, Surface Mining
Tug Fork	10.2 to 41.6	Big Sandy River	505554_02	5070201	Martin			NS				Pathogens	Septic Tanks/Decentral. Sys)
Tug Fork	71.9 to 77.7	Big Sandy River	505554_03	5070201	Martin					PS		PCBs	Unknown
Tug Fork	78.3 to 84.4	Big Sandy River	505554_04	5070201	Pike			NS				Pathogens	Septic Tanks/Decentral. Sys)
Turkey Creek	0.0 to 5.9	Right Fork Beaver Crk	505598_01	5070203	Floyd	NS						Sediment/Siltation, Sulfates, Unknown	Pasture Grazing, Petroleum/ Natr'l Gas Prod, Post-Devel.. Erosion/Sediment., Land Clearance, Subsurface Mining, Surface Mining, Habitat Mod-other than Hydro

**Sandy-Tygarts Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Upper Pidgeon Branch	0.0 to 2.1	Elkhorn Crk	505895_01	5070202	Pike	NS						Sediment/Siltation, TDS, Nitrogen (Total)	Surface Mining, Unknown
Wilson Creek	0.0 to 2.9	Right Fork Beaver Crk	506897_01	5070203	Floyd	NS						Sediment/Siltation, Sulfates, Org.Enrich. (Sewage)	Man. Pasture Grazing, Septic Tanks/Decentral. Systems Post-Devel.. Erosion/Sediment., Subsurface Mining, Surface Mining, Habitat Mod- other than Hydro, Urban Stormwater
Wolf Creek	0.0 to 6.5	Tug Fork	507001_01	5070201	Martin	PS	PS	NS				Sediment/Siltation, Sulfates, TDS	Dredging , Hwy/Rd/Brdg Runoff, Surface Mining, Sediment Resuspension (Contaminated), Urban Stormwater
Wolf Creek	6.5 to 17.6	Tug Fork	507001_02	5070201	Martin	NS						Sediment/Siltation, Sulfates, TDS	Dredging, Hwy /Rd/Brdg Runoff (Nonconstr), Surface Mining, Sediment Resuspension (Contaminated), Urban Stormwater
Wolf Creek	17.6 to 20.5	Tug Fork	507001_03	5070201	Martin	PS						Sediment/Siltation, Sulfates, TDS	Hwy/Rd/Brdg Runoff (Non-Construction), Surface Mining

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						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Con- sumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Wolfpen Branch	0.0 to 1.7	Grassy Creek	507038_01	5070202	Pike	NS						Sediment/Siltation, Water Temperature, TDS	Channelization, Riparian Habitat Loss, Silviculture, Surface Mining

<b>Little Sandy River Basin</b>													
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Allcorn Creek	1.4 to 3.9	Little Sandy River	485841_01	5090104	Greenup	NS						Sediment/Siltation, Water Temperature	Riparian Habitat Loss, Livestock-Grazing/Feed. Op's
Barrett Creek	0.0 to 7.2	Little Sandy River	486936_01	5090104	Carter	PS						Sediment/Siltation	Hwy/Rd/Brdg Runoff (Non-Constr), Land Clearance (Devel./Redevelop.)
Cane Creek	0.0 to 4.1	Little Sandy River	488773_01	5090104	Greenup	PS						Unknown	Unknown
Dry Fk	1.2 to 4.5	Little Fk Little Sandy River	491206_01	5090104	Lawrence	PS						Sediment/Siltation	Silviculture
East Fork Little Sandy River	24.9 to 26.4	Little Sandy River	491469_02	5090104	Boyd			NS				Pathogens	Riparian Habitat Loss
East Fork Little Sandy River	27.1 to 30	Little Sandy River	491469_03	5090104	Boyd	PS						Sediment/Siltation	Riparian Habitat Loss, Surface Mining
Ellingtons Bear Cr	0.0 to 1.5	East Fork Little Sandy River	491699_01	5090104	Boyd	PS						Sediment/Siltation, Water Temp, Nutrient/Eutroph.	Riparian Habitat Loss, Unknown
Everman Cr	0.0 to 5.7	Little Sandy River	491855_01	5090104	Carter	PS						Sediment/Siltation	Unknown



### Sandy-Tygart Basin Management Unit 303(d) List

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Consumption</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>
Garner Cr	0.0 to 1.8	East Fork Little Sandy River	492710_01	5090104	Boyd	PS						Sediment/Siltation	Pasture Grazing, Silviculture
Grayson Lake	1512 acres	N/A	493224_00	5090104	Carter					PS		Methyl mercury	Unknown
Left Fork Redwine Creek	0.0 to 1.2	Redwine Creek	496857-7.9_01	5090104	Elliott	PS						Unknown	Unknown, Livestock-Grazing/Feed. Op's
Lick Fork	0.0 to 5.2	Newcombe Crk	496506_01	5090104	Elliott	PS						Sediment/Siltation, Sulfates, TDS	Pasture Grazing, Petroleum/Nat. Gas Prod, Post-Devel.. Erosion /Sediment., Subsurface Mining, Habitat Mods, Urban Stormwater
Little Fork Little Sandy River	4.8 to 6	Little Sandy River	496737_02	5090104	Carter	PS						Sediment/Siltation, Water Temperature	Riparian Habitat Loss, Livestock-Grazing/Feed. Op's
Little Fork Little Sandy River	12.0 to 23.8	Little Sandy River	496737_04	5090104	Carter	PS						Sediment/Siltation	Riparian Habitat Loss, Surface Mining, Livestock-Grazing/Feed. Op's
Little Fork Little Sandy River	23.8 to 27.7	Little Sandy River	496737_05	5090104	Elliott	NS						Sediment/Siltation	Channelization, Pasture Grazing, Non-Irrig Crop Prod, Silviculture
Little Fork Little Sandy River	27.7 to 30.5	Little Sandy River	496737_06	5090104	Elliott	PS						Sediment/Siltation, Water Temperature	Riparian Habitat Loss, Livestock-Grazing/Feed. Op's
Little Sandy River	0.0 to 0.2	Ohio River	496857_01	5090104	Greenup			NS				Pathogens	Municipal Pt. Source Dischrge
Little Sandy	71.8 to	Ohio River	496857_07	5090104	Elliott	PS	PS					Sediment/Siltation	Habitat Mod-not Hydro

**Sandy-Tygarts Basin Management Unit 303(d) List**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
River	74.7												
Lower Stinson Creek	0.0 to 1.1	Little Sandy River	397300_01	5090104	Carter	PS						Sediment/Siltation	Non-Irrig Crop Prod
Middle Fork Little Sandy River	5.7 to 7.5	Little Sandy River	498129_02	5090104	Elliott	PS						Unknown	Other Recreational Pollution Sources, Unknown
Newcombe Creek	0.0 to 11.9	Little Sandy River	499428_01	5090104	Elliott	PS						Sediment/Siltation, Sulfates, Unknown	Hwys/Rd/Brdgs, Abandon. Mine Lands, Pasture Grazing, Mine Tailings, Petroleum /Nat. Gas Product., Post-Devel.. Erosion/Sediment, Silviculture, Subsurface Mining, Crop Prod, Habitat Mods, Urban Stormwater
Oldtown Creek	0.0 to 1.9	Little Sandy River	496026_01	5090104	Greenup	PS						Sediment/Siltation, Water Temp., Turbidity, Oil/Grease	Riparian Habitat Loss, Unknown, Livestock-Grazing/Feed. Op's
Right Fork Newcombe Creek	0.0 to 4.2	Newcombe Crk	501913_01	5090104	Elliott	PS						Sediment/Siltation, Sulfates, TDS	Pasture Grazing, Petroleum/Nat. Gas Prod, Sub/Surface Mining, Crop Prod , Habitat Mods

### Sandy-Tygarts Basin Management Unit 303(d) List

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Rocky Branch	0.0 to 3.2	Newcombe Crk	502230_01	5090104	Elliott	PS						Sediment/Siltation, TDS	Hwys/Rd/Brdgs Infrastructure, Petroleum/Nat. Gas Product. (Permit), Post-Devel.. Erosion/ Sediment., Surface Mining, Habitat Mods, Urban Stormwater
Straight Creek	0.0 to 3.8	Little Fork Sandy River	504550_01	5090104	Carter	PS						Sediment/Siltation	Non-Irrig Crop Prod, Silviculture
Tunnel Branch	0.0 to 1.7	Little Sandy River	505568_01	5090104	Greenup	NS						Sediment/Siltation, Water Temperature	Loss Riparian Habitat, Post-Devel.. Erosion/Sediment.
UT to East Fork Little Sandy River	0 to 0.3	East Fork Little Sandy River	491469-8.1_01	5090104	Greenup	NS						Sediment/Siltation, TDS, Org.Enrich. (Sewage)	Channelization, Septic Tanks/Decentral. Sys )
Wells Creek	0.0 to 3.5	Little Sandy River	506380_01	5090104	Elliott	PS						Sediment/Siltation	Impacts fr. Aband. Mine Lands, Pasture Grazing, Non-Irrig Crop Prod, Silviculture
Williams Creek	0.0 to 2.9	E. Fk Little Sandy River	506818_01	5090104	Boyd	PS						Unknown	Strmbank Mod/Destable., Unknown

Ohio River Tributaries													
Newberry Branch	0.0 to 2.8	Ohio River	499417_01	5090103	Greenup	NS						Sediment/Siltation, TDS, Nutrient/Eutroph.	Channelization, Hwy/Rd/Brdg Runoff (Non-Constr), Non-Irrig Crop Prod

**Sandy-Tygarts Basin Management Unit 303(d) List**

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Con- sump- tion</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>Impairments</i>	<i>Sources</i>

UT to Chinns Branch	0.0 to 1.1	Chinns Branch	489481-0.8_01	5090103	Greenup	NS						Sediment/Siltation, Water Temperature	Channelization, Riparian Habitat Loss, Post-Devel. Erosion/Sediment.
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<b>Tygarts Creek Basin</b>													
Backs Branch	0.0 to 0.9	Tygarts Crk	486191_01	5090103	Greenup	PS						Sediment/Siltation	Riparian Habitat Loss, Pasture Grazing
Jacobs Fork	3.6 to 5.7	Tygarts Crk	495138_01	5090103	Carter	PS						Sediment/Siltation	Channelization, Dredge Mining, Dredging , Pasture Grazing
Schultz Creek	4.7 to 10.8	Tygarts Crk	503068_02	5090103	Greenup	PS						Unknown	Dredging , Unknown
Smith Creek	2.0 to 4.3	Buffalo Crk	503783_01	5090103	Carter	PS						Sediment/Siltation, Water Temperature	Unknown, Livestock-Grazing/Feed. Op's
Trough Camp	1.5 to 6.1	Tygarts Crk	505516_01	5090103	Carter	PS						Sediment/Siltation	Channelization, Post-Devel. Erosion/Sediment.
Tygarts Creek	0.0 to 45.7	Ohio River	516008_01	5090103	Greenup			PS				Pathogens	Agriculture, Land Disposal
White Oak Creek	0.0 to 1.1	Tygarts Crk	506615_01	5090103	Greenup	NS						Unknown	Hwys/Rd/Brdgs Infrastructure (New Constr), Habitat Mod-not Hydro

## Appendix B. Table of Category 5A Listings for the Ohio River Mainstem

Category 5A is the list of impaired waterbody/pollutant combinations that require TMDLs (i.e., the 303(d) List). This Appendix contains the narrative information found in Chapter 13 from the Ohio River mainstem.

This Appendix lists a Hydrologic Unit Code 8 (HUC8) number for each impaired segment, or multiple HUC8 numbers if the segment crosses HUC8 boundaries.

As stated, ORSANCO assesses the Ohio River mainstem for Contact Recreation and Aquatic Life, and KDOW assesses the Ohio for Fish Consumption.

Key:

<i>DWS</i>	Drinking Water Source: Usually a lake or reservoir, designated as a drinking supply for towns and cities.	
<b>IMPAIRMENTS &amp; SOURCES</b>		
Two categories used and designated by the Environmental Protection Agency to evaluate and assess surface waters across the nation. Each impairment and source has a numerical and narrative explanation, used by the Assessment Database (ADB), an electronic database used by Kentucky to report assessment data to the EPA.		
The Environmental Protection Agency's world wide web site has the impairment and source tables with all available explanation. Refer to the web address below, or contact the Kentucky Division of Water for additional assistance. <a href="http://www.epa.gov/waters/adb/docs.htm">http://www.epa.gov/waters/adb/docs.htm</a> Refer to the Section 'ADB Domain Value Lists', and the 'Impairments' and 'Sources' documents.		

### Ohio River Mainstem 303(d) List

<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>HUC_8</i>	Designated Uses					<i>County</i>	<i>Impairments</i>	<i>Sources</i>
			<i>Aquatic Life</i>	<i>Contact Recreation</i>	<i>Fish Consumption</i>	<i>Drinking Water Supply</i>				
			<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>Fish Tissue</i>	<i>DWR</i>			
Ohio River	317.0 to 357.0	5090103	FS	FS	FS	PS	FS	Boyd/Greenup/Lewis	Dioxin, Polychlorinated Biphenyls	Unknown
Ohio River	357.0 to 362.0	5090103/ 5090201	FS	FS	PS	PS	FS	Lewis	Dioxin, Polychlorinated Biphenyls, Pathogens	Unknown
Ohio River	362.0 to 383.0	5090201	FS	FS	FS	PS	FS	Lewis	Dioxin, Polychlorinated Biphenyls	Unknown
Ohio River	383.0 to 388.0	5090201	FS	FS	PS	PS	FS	Lewis	Dioxin, Polychlorinated Biphenyls, Pathogens	Septic Systems, Urban Stormwater Runoff, Animal Waste, CSO's
Ohio River	388.0 to 393.0	5090201	FS	FS	FS	PS	FS	Lewis	Dioxin, Polychlorinated Biphenyls	Unknown
Ohio River	393.0 to 397.0	5090201	FS	FS	PS	PS	FS	Lewis	Dioxin, Polychlorinated Biphenyls, Pathogens	Septic Systems, Urban Stormwater Runoff, Animal Waste, CSO's
Ohio River	397.0 to 461.0	5090201	FS	FS	FS	PS	FS	Lewis/Mason/Bracken/ Campbell	Dioxin, Polychlorinated Biphenyls	Unknown
Ohio River	461.0 to 477.0	5090203	FS	FS	NS	PS	FS	Campbell/Kenton	Dioxin, Polychlorinated Biphenyls, Pathogens	Septic Systems, Urban Stormwater Runoff, Animal Waste, CSO's
Ohio River	477.0 to 484.0	5090203	FS	FS	PS	PS	FS	Kenton/Boone	Dioxin, Polychlorinated Biphenyls, Pathogens	Septic Systems, Urban Stormwater Runoff, Animal Waste, CSO's

### Ohio River Mainstem 303(d) List

<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>HUC_8</i>	Designated Uses					<i>County</i>	<i>Impairments</i>	<i>Sources</i>
			<i>Aquatic Life</i>	<i>Contact Recreation</i>	<i>Fish Consumption</i>	<i>Drinking Water Supply</i>	<i>Fish Tissue</i>			
			<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>DWR</i>				
Ohio River	484.0 to 488.0	5090203	FS	FS	NS	PS	FS	Boone	Dioxin, Polychlorinated Biphenyls, Pathogens	Septic Systems, Urban Stormwater Runoff, Animal Waste, CSO's
Ohio River	488.0 to 491.0	5090203	FS	FS	FS	PS	FS	Boone	Dioxin, Polychlorinated Biphenyls	Unknown
Ohio River	491.0 to 501.0	5090203	FS	FS	NS	PS	FS	Boone	Dioxin, Polychlorinated Biphenyls, Pathogens	Septic Systems, Urban Stormwater Runoff, Animal Waste, CSO's
Ohio River	501.0 to 521.0	5090203	FS	FS	FS	PS	FS	Boone/Gallatin	Dioxin, Polychlorinated Biphenyls	Unknown
Ohio River	521.0 to 541.0	5090203	FS	FS	PS	PS	FS	Gallatin/Carroll	Dioxin, Polychlorinated Biphenyls, Pathogens	Septic Systems, Urban Stormwater Runoff, Animal Waste, CSO's
Ohio River	541.0 to 593.0	5090203/5140101	FS	FS	FS	PS	FS	Carroll/Trimble/Oldham	Dioxin, Polychlorinated Biphenyls	Unknown
Ohio River	593.0 to 608.0	5140101	FS	FS	PS	PS	FS	Jefferson	Dioxin, Polychlorinated Biphenyls, Pathogens	Septic Systems, Urban Stormwater Runoff, Animal Waste, CSO's
Ohio River	608.0 to 621.0	5140101	FS	FS	NS	PS	FS	Jefferson	Dioxin, Polychlorinated Biphenyls, Pathogens	Septic Systems, Urban Stormwater Runoff, Animal Waste, CSO's
Ohio River	621.0 to 629.0	5140101	FS	FS	FS	PS	FS	Jefferson	Dioxin, Polychlorinated	Unknown

### Ohio River Mainstem 303(d) List

<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>HUC_8</i>	Designated Uses					<i>County</i>	<i>Impairments</i>	<i>Sources</i>
			<i>Aquatic Life</i>	<i>Contact Recreation</i>	<i>Fish Consumption</i>	<i>Drinking Water Supply</i>				
			<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>Fish Tissue</i>	<i>DWR</i>			
									Biphenyls	
Ohio River	629.0 to 709.0	5140101/5140104/5140201	FS	FS	NS	PS	FS	Jefferson/Hardin/Mead e/Breckinridge	Dioxin, Polychlorinated Biphenyls, Pathogens	Septic Systems, Urban Stormwater Runoff, Animal Waste, CSO's
Ohio River	709.0 to 719.0	5140201	FS	FS	PS	PS	FS	Breckinridge/Hancock	Dioxin, Polychlorinated Biphenyls, Pathogens	Septic Systems, Urban Stormwater Runoff, Animal Waste, CSO's
Ohio River	719.0 to 785.0	5140201/5140202	FS	FS	NS	PS	FS	Hancock/Daviess/Henderson	Dioxin, Polychlorinated Biphenyls, Pathogens	Septic Systems, Urban Stormwater Runoff, Animal Waste, CSO's
Ohio River	785.0 to 789.0	5140202	FS	FS	PS	PS	FS	Henderson	Dioxin, Polychlorinated Biphenyls, Pathogens	Septic Systems, Urban Stormwater Runoff, Animal Waste, CSO's
Ohio River	789.0 to 844.0	5140202	FS	FS	NS	PS	FS	Henderson/Union	Dioxin, Polychlorinated Biphenyls, Pathogens	Septic Systems, Urban Stormwater Runoff, Animal Waste, CSO's
Ohio River	844.0 to 849.0	5140202/5140203	FS	FS	PS	PS	FS	Union	Dioxin, Polychlorinated Biphenyls, Pathogens	Septic Systems, Urban Stormwater Runoff, Animal Waste, CSO's
Ohio River	849.0 to 862.0	5140203	FS	FS	FS	PS	FS	Union	Dioxin, Polychlorinated Biphenyls	Unknown
Ohio River	862.0 to 873.0	5140203	FS	FS	PS	PS	FS	Union	Dioxin, Polychlorinated Biphenyls,	Septic Systems, Urban Stormwater Runoff, Animal Waste, CSO's



### Ohio River Mainstem 303(d) List

<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>HUC_8</i>	<b>Designated Uses</b>				<i>Fish Tissue</i>	<i>DWR</i>	<i>County</i>	<i>Impairments</i>	<i>Sources</i>
			<b>Aquatic Life</b>		<b>Contact Recreation</b>	<b>Fish Consumption</b>					
			<i>BIO</i>	<i>WQ</i>	<i>PCR</i>						
										Pathogens	
Ohio River	873.0 to 894.0	5140203	FS	FS	FS	PS	FS	Crittenden		Dioxin, Polychlorinated Biphenyls	Unknown
Ohio River	894.0 to 910.0	5140203	FS	FS	PS	PS	FS	Livingston		Dioxin, Polychlorinated Biphenyls, Pathogens	Septic Systems, Urban Stormwater Runoff, Animal Waste, CSO's
Ohio River	910.0 to 981.0	5140203/5140206	FS	FS	FS	PS	FS	Livingston/McCracken/ Ballard		Dioxin, Polychlorinated Biphenyls	Unknown

### Appendix C. Table of Category 5B Listings for the 5 BMUs

Category 5B contains waterbodies assessed as being impaired based on Discharge Monitoring Reports. No TMDL is required for these waterbody/pollutant combinations, and they are not part of the 303(d) list.

Key:

<i>DWS</i>	Drinking Water Source: Usually a lake or reservoir, designated as a drinking supply for towns and cities.	
<b>IMPAIRMENTS &amp; SOURCES</b>		
Two categories used and designated by the Environmental Protection Agency to evaluate and assess surface waters across the nation. Each impairment and source has a numerical and narrative explanation, used by the Assessment Database (ADB), an electronic database used by Kentucky to report assessment data to the EPA.		
The Environmental Protection Agency's world wide web site has the impairment and source tables with all available explanation. Refer to the web address below, or contact the Kentucky Division of Water for additional assistance. <a href="http://www.epa.gov/waters/adb/docs.htm">http://www.epa.gov/waters/adb/docs.htm</a> Refer to the Section 'ADB Domain Value Lists', and the 'Impairments' and 'Sources' documents.		

### Category 5B (TMDL Not Required)

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources

**Kentucky River Basin Management Unit**

Kentucky River Basin													
Carr Fork	15.6 to 26.4	North Fork Kentucky River	511203_03	5100201	Knott		PS					Siltation	Resource Extraction
Harts Fork	3.2 to 4.2	Hays Fork	493843_00	5100205	Madison		PS					Ammonia (Un-ionized), TSS, pH, Org. Enrich. (Sewage) Biol.	Industrial Point Source Discharge
Hays Fork	1.2 to 4.7	Silver Creek	512614_00	5100205	Madison		FS					Ammonia, Chlorine, Organic Enrich (Sewage), TSS	Municipal Point Source Discharge
Lanes Run	0.0 to 0.5	North Elkhorn Creek	495977_01	5100205	Scott			NS				Pathogens	Municipal Point Source Discharge
Lee Branch	0.0 to 1.0	South Elkhorn Creek	496153_01	5100205	Woodford			PS				Pathogens	Municipal Point Source Discharge
Moseby Branch	0.0 to 2.2	Eagle Crk	498657_00	5100205	Owen		NS					Unknown	Strmbank Mod's/Destable., Unk, Natr'l Sources
Shallow Ford Creek	5.9 to 6.9	Tate Creek	517031_00	5100205	Madison		NS					Ammonia (Un-ionized), Chlorine	Package Plant/Other Small Flow Discharges
Steammill Branch	0.6 to 1.6	Clarks Creek	504297_00	5100205	Grant		PS					Ammonia (Un-ionized)	Municipal Point Source Discharge
Town Creek	2.5 to 3.5	Drennon Creek	505393_00	5100205	Henry		NS					Ammonia (Un-ionized), Chlorine	Municipal Point Source Discharge

### Category 5B (TMDL Not Required)

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
UT to Dry Run	1.5 to 2.5	Dry Run						NS				Pathogens	Package Plants
UT to East Fork Clear Creek	2.8 to 3.8	East Fork Clear Creek	491453-3.6_00	5100205	Jessamine			NS				Pathogens	Package Plants
<b>Salt-Licking Basin Management Unit</b>													
<b>Licking River Basin</b>													
Indian Creek	0.0 to 0.7	Licking River	494934_01	5100102	Bourbon			NS	NS			Pathogens	Municipal Point Source Discharge
<b>Ohio River Tributaries</b>													
Elijahs Creek	0.0 to 5.2	Ohio River	491627_00	5090203	Boone	NS						Impairment Unknown	Indust./Commercial Stormwater Discharge Permit
<b>Salt River Basin</b>													
Mill Creek	6.0 to 7.0	Salt River	498262_01	5140102	Hardin					NS		Methylmercury	Municipal Point Source Discharge
Mill Creek Branch	0.0 to 0.7	Mill Creek	498269_00	5140102	Hardin	PS						Ammonia (Un-ion.), Org. Enrich (Sewage) Biol.	Package Plant/Other Small Flow Discharges
UT to Carmon Creek	0.0 to 1.9	Carmon Creek	488944-2.5_01	5140101	Henry			NS	NS			Pathogens	Municipal Point Source Discharge
UT to N. Fork Currys Fork	0.0 to 0.1	North Fork Currys Fork	499547-4.7_01	5140102	Oldham			NS				Pathogens	Municipal Point Source Discharge

### Category 5B (TMDL Not Required)

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources

#### Tennessee-Mississippi-Cumberland Basin Management Unit

Lower Cumberland Basin													
Hammond Creek	2.0 to 2.2	Cumberland River	493638_00	5130205	Lyon		PS	PS				Ammonia (Un-ionized), Chlorine, Pathogens, TSS, Org. Enrich. (Sewage) Biol.	Municipal Point Source Discharge
West Fork Creek (not named on map)	0.6 to 1.6	Sink/Spring near Trenton	WFC-001_00	5130206	Todd		PS					Ammonia (Un-ionized), TSS, Org. Enrich. (Sewage) Biol.	Municipal Point Source Discharge

Mississippi River Basin													
Cane Creek	3.2 to 4.0	Obion Creek	488770_00	8010201	Graves		PS	PS				Ammonia (Un-ionized), Chlorine, Pathogens, Org. Enrich. (Sewage) Biol.	Municipal Point Source Discharge
Long Creek	0.0 to 0.8	Hurricane Creek	497091_00	8010201	Carlisle		PS	PS				Ammonia (Un-ionized), Chlorine, Pathogens, TSS, Org. Enrich. (Sewage) Biol.	Municipal Point Source Discharge

### Category 5B (TMDL Not Required)

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
Shawnee Creek Slough	7.9 to 8.9	Mississippi River	503285_02	8010100	Ballard		PS	PS				Ammonia (Un-ionized), Chlorine, Pathogens, Org. Enrich. (Sewage) Biol.	Municipal Point Source Discharge
Torian Creek	0.0 to 0.8	Mayfield Creek	505364_00	8010201	Graves		PS					Ammonia (Un-ionized), Pathogens	Package Plant/Other Small Flow Discharges
Truman Creek	2.0 to 3.0	Mayfield Creek	505525_00	8010201	Carlisle		PS	PS				Ammonia (Un-ionized), Pathogens, Org. Enrich. (Sewage) Biol.	Municipal Point Source Discharge
<b>Ohio River Tributaries</b>													
Humphrey Creek	11.0 to 12.2	Ohio River	494758_03	5140206	Ballard	PS	PS					Pathogens, TSS, Org. Enrich. (Sewage) Biol.	Municipal Point Source Discharge
UT to Humphrey Branch	0.0 to 1.3	Humphrey Branch	494756-1.6_00	5140206	Ballard	PS	PS					Ammonia (Un-ionized), Pathogens	Municipal Point Source Discharge
UT to Massac Creek	0.0 to 0.7	Massac Creek	497670-6.95_00	5140206	McCracken		PS					Ammonia (Un-ionized), Pathogens, TSS, Org. Enrich. (Sewage) Biol.	Package Plant/Permitted Small Flow Discharges
UT to Massac Creek	0.0 to 0.4	Massac Creek	497670-5.2_00	5140206	McCracken	PS	PS					Ammonia (Un-ionized), Pathogens, TSS, Organic Enrich. (Sewage) Biological	Package Plant/Permitted Small Flow Discharges
UT to W. Fork Massac Creek	0.0 to 0.8	West Fork Massac Creek	506438-1.6_00	5140206	McCracken	PS	PS					Pathogens, Org. Enrich. (Sewage) Biol.	Package Plant/ Permitted Small Flow Discharges
West Fork Massac Creek	0.0 to 0.3	Massac Creek	506438_01	5140206	McCracken	PS						Ammonia (Un-ionized), Org. Enrich. (Sewage) Biol.	Package Plant/ Permitted Small Flow Discharges

**Category 5B (TMDL Not Required)**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources

Tennessee River Basin													
Bear Creek	0.6 to 1.6	Tennessee River	486552_00	6040006	Graves		PS	PS				Ammonia (Un-ion), Pathogens, Org. Enrich. (Sewage)	Municipal Point Source Discharge
Blizzard Pond	4.5 to 5.5	West Fork Clarks River	506426-1.4_02	6040006	McCracken		PS	PS				Ammonia (Un-ionized), TSS, Org. Enrich. (Sewage)	Package Plant/Other Small Flow Discharges
East Fork Clarks River	5.7 to 6.7	Clarks River	491450_02	6040006	Calloway			PS				Pathogens	Municipal Point Source Discharge
Little White Oak Creek	0.9 to 1.9	Tennessee River	496895_00	6040006	Marshall			PS				Pathogens, Org. Enrich. (Sewage)	Package Plant/Other Small Flow Discharges
Martin Creek	0.0 to 0.9	Clarks River	497627_00	6040006	Marshall		PS	PS				Ammonia (Un-ionized), Pathogens, Org. Enrich. (Sewage) Biol.	Municipal Point Source Discharge
UT to Chestnut Creek	0.0 to 0.7	Chestnut Creek	489424-2.8_00	6040006	Marshall		PS	PS				Ammonia (Un-ionized), Pathogens, TSS, Org. Enrich. (Sewage) Biol.	Municipal Point Source Discharge

Upper Cumberland Basin													
Clear Fork Branch	2.6 to 3.6	Spring Creek	489626_00	5130105	Clinton			PS				Pathogens	Municipal Point Source Discharge
Dry Branch	0.0 to 0.3	Pitman Creek	491160_00	5130103	Pulaski		PS					Ammonia (Un-ionized)	Package Plant/Other Small Flow Discharges
Moore Branch	0.0 to 0.6	Cannon Creek	498528_00	5130101	Bell		PS	PS	NS			Ammonia (Un-ion), Pathogens, pH, Org. Enrich. (Sewage)	Package Plant/Other Small Flow Discharges
UT to Bridge Fork	0.0 to 0.1	Bridge Fork	510913-5.5_00	5130101	McCreary		PS					Org. Enrich. (Sewage)	Municipal Point Source Discharge

**Category 5B (TMDL Not Required)**

						Designated Uses							
						Aquatic Life		Contact Recreation		Consumption	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	Impairments	Sources
UT to Clifty Creek	0.0 to 0.5	Clifty Creek	511409-6.4_00	5130103	Pulaski			PS				Pathogens	Municipal Point Source Discharge
UT to Pond Creek	0.0 to 0.2	Pond Creek	514692-6.0_00	5130102	Jackson			PS				Ammonia (Un-ionized)	Package Plant/Other Small Flow Discharges
UT to Pond Creek	0.0 to 0.2	Pond Creek	514692-7.6_00	5130102	Jackson			PS	PS			Ammonia (Un-ion), Pathogens	Package Plant/Other Small Flow Discharges
<b>Green-Tradewater Basin Management Unit</b>													
<b>Green River Basin</b>													
Austin Creek	2.6 to 3.6	Mud River	486150_02	5110003	Logan			PS				Impairment Unknown	Industrial Point Source Discharge
Blacklick Creek	11.2 to 12.2	Clear Fork Creek	487376_01	5110002	Logan			NS				Ammonia (Un-ionized), TSS, Org. Enrich. (Sewage) Biol.	Municipal Point Source Discharge
<b>Ohio River Tributaries</b>													
Lead Creek	3.5 to 4.5	Ohio River	496111_02	5140201	Hancock			NS	NS			Pathogens, Org. Enrich. (Sewage) Biological	Municipal Point Source Discharge
<b>Sandy-Tygarts Basin Management Unit</b>													
<b>Big Sandy River Basin</b>													
Abbott Creek	0.0 to 3.2	Levisa Fork	485720_01	5070203	Floyd			NS	NS			Pathogens, Turbidity, Org. Enrich. (Sewage) Biol., Nitrogen (Total)	Package Plant/Other Small Flow Discharges, Subsurface (Hardrock) Mining, Surface Mining



## **Appendix D. Table of Category 4A Listings for the 5 BMUs**

Category 4A contains waterbody/pollutant combinations with EPA-approved TMDLs. Once a TMDL is approved, the waterbody/pollutant combination is no longer 303(d) listed, and is captured in Category 4A, even though the waterbody is still impaired for that pollutant.

## Approved TMDLs

						Designated Uses							
						Aquatic Life		Contact Recreation		Con- sump- tion	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	"KY" Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	TMDL Approved for the Impairment Listed	Sources

### Kentucky River Basin Management Unit

Kentucky River Basin													
Cane Creek	0.0 to 9.5	N. Fk. KY River	511190_00	5100201	Breathitt			NS				Pathogens	Unknown
Carr Fork	5.9 to 8.9	N. Fk. KY River	511230_02	5100201	Perry			NS	NS			Pathogens	Unknown
Carr Fork	0.0 to 5.9	N. Fk. KY River	511230_01	5100201	Perry			NS				Pathogens	Municipal Point Source Discharge
North Fork Kentucky River	0.0 to 162.6	Kentucky River	None	5100201	Breathitt			NS				Pathogens	Land Disposal, Municipal Pt Sources, Onsite Wastewater Systems
Sand Lick Fork	0.0 to 5.0	South Fork Red River	515225_00	5100204	Powell	NS						Salinity/TDS/Chlorides	Petroleum /Natural Gas Activities
South Fork Red River	0.0 to 3.9	Red River	515547_01	5100204	Powell	NS						Salinity/TDS/Chlorides	Petroleum /Natural Gas Activities
South Fork Red River	3.9 to 10.1	Red River	515547_02	5100204	Powell	NS						Salinity/TDS/Chlorides	Petroleum /Natural Gas Activities
Stump Cave Branch	0.0 to 2.4	South Fork Red River	515765_01	5100204	Powell		NS					Salinity/TDS/Chlorides	Permitted Silviculture Act.
UT to Baughman Fork	0.0 to 1.1	Baughman Fork	486478-2.6_01	5100205	Fayette	NS						Nutrient/Eutroph, Org. Enrichment (Sewage)	Unknown

### Salt-Licking Basin Management Unit

Licking River Basin													
Allison Creek	0.0 to 4.9	Fleming Creek	485886_00	5100101	Fleming			NS				Pathogens	Animal Feeding Op

## Approved TMDLs

						Designated Uses							
						Aquatic Life		Contact Recreation		Con- sump- tion	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	"KY" Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	TMDL Approved for the Impairment Listed	Sources

Cassidy Creek	0.0 to 3.9	Licking River	489064_00	5100101	Fleming			NS				Pathogens	Animal Feeding Op, Managed Pasture Grazing
Craintown Branch	0.0 to 3.6	Fleming Creek	490277_00	5100101	Fleming			PS				Pathogens	Animal Feeding Operations
Doty Branch	0.0 to 2.3	Fleming Creek	492236-12.8_01	5100101	Fleming			NS				Pathogens	Animal Feeding Operations
Fleming Creek	0.0 to 39.4	Licking River	492236_03	5100101	Fleming			NS				Pathogens	Animal Feeding Operations
Logan Run	0.0 to 2.3	Fleming Creek	496986_00	5100101	Fleming			NS				Pathogens	Illegal Waste Dumps/Inapp. Waste Disposal, Agriculture
Poplar Creek	0.0 to 2.9	Fleming Creek	501096_00	5100101	Fleming			NS				Pathogens	Animal Feeding Operations, Pasture Grazing
Sleepy Run	0.0 to 2.8	Fleming Creek	503678_00	5100101	Fleming			NS				Pathogens	Animal Feeding Operations
Town Branch	0.0 to 4.0	Fleming Creek	505381_00	5100101	Fleming			NS				Pathogens	Animal Feeding Operations, Unspec. Urban Stormwater
UT to Fleming Creek	0.0 to 2.1	Fleming Creek	492236-4.4_00	5100101	Fleming			NS				Pathogens	Animal Feeding Operations, Pasture Grazing
Wilson Run	0.0 to 5.1	Fleming Creek	506915_00	5100101	Fleming			NS				Pathogens	Animal Feeding Operations

Ohio River Tributaries													
Elijah's Creek	0.0 to 5.2	Ohio River	491627_00	5090203	Boone	NS						Non-priority Organics (De-icing Fluids)	Industrial Stormwater Discharge (Permitted)
Gunpowder Creek	15.0 to 18.9	Ohio River	493502_02	5090203	Boone	NS						Ethylene Glycol	Airports

### Approved TMDLs

						<i>Designated Uses</i>							
						<i>Aquatic Life</i>		<i>Contact Recreation</i>		<i>Con- sump- tion</i>	<i>Drink. Water</i>		
<i>Waterbody Name</i>	<i>Impaired Segment</i>	<i>Receiving Waterbody</i>	<i>"KY" Waterbody ID</i>	<i>HUC 8</i>	<i>County</i>	<i>BIO</i>	<i>WQ</i>	<i>PCR</i>	<i>SCR</i>	<i>Fish Tissue</i>	<i>DWS</i>	<i>TMDL Approved for the Impairment Listed</i>	<i>Sources</i>

Salt River Basin													
Chenoweth Run	0.0 to 9.1	Floyds Fork	489391_025	5140102	Jefferson	PS	PS					Nutrients/ Eutrophication	Municipal (Urban High Density Areas), Package Plants, Livestock (Grazing/Feeding Operations)
Floyds Fork	0.0 to 11.6	Salt River	492278_01	5140102	Jefferson	NS	NS					Organic Enrich (Sewage)	Municipal Point Source
Floyds Fork	11.6 to 24.2	Salt River	492278_02	5140102	Jefferson	NS	NS					Org.Enrich. (Sewage)	Illegal/Inapp Waste Disposal, Mun Pt. Source Dischar, Package Plants, Urban Runoff/Storm Sewers
Floyds Fork	24.2 to 34.1	Salt River	492278_03	5140103	Jefferson	NS						Org.Enrich. (Sewage)	Grazing in Riparian, Mun Pt Src Dischrge, Agriculture, Urb Runoff /Storm Sewers
Floyds Fork	34.1 to 61.9	Salt River	492278_04	5140102	Shelby	PS	PS					Org.Enrich. (Sewage)	Municipal (High Density Areas), Wet Weather Discharges (Pt/Non-Pt)
Harrods Creek	0.0 to 3.2	Ohio River	493826_01	5140101	Oldham		NS					Org.Enrich. (Sewage)	Municipal (Urban High Density Areas)
Taylorville Lake	3050 acres	N/A	CLN141_00	5140102	Spencer		PS					Nutrients/ Eutrophication	Agriculture, Upstream Source, Livestock Grazing, Mun. Pt Source Discharges
Mussin Branch	0.0 to 1.7	Moore Creek	499140_00	5140103	Marion	NS	NS	NS				pH	Unknown
UT to Rolling Fork	0.0 to 0.6	Rolling Fork	502293-94.6_00	5140103	Marion	NS	NS	NS	NS			pH	Highways/Road/Bridges Infrastructure (New Construction), Unknown
Green-Tradewater Basin Management Unit													

Green River Basin													
Beech Creek	0.0 to 3.4	Pond Creek	486697_00	5110003	Muhlenberg		NS					pH	Acid Mine Drainage

### Approved TMDLs

						Designated Uses							
						Aquatic Life		Contact Recreation		Con- sump- tion	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	"KY" Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	TMDL Approved for the Impairment Listed	Sources
Brier Creek	0.0 to 4.7	Pond River	487897_00	5110006	Muhlenberg		NS	NS	NS			pH	Acid Mine Drainage
Butchers Branch	0.3 to 2.3	Blackford Creek	488498_02	5140201	Hancock		NS	NS	NS			pH	Acid Mine Drainage
Craborchard Creek	0.0 to 4.6	Drakes Crk	490247_01	5110006	Hopkins	NS	NS	NS	NS			pH	Surface Mining, Unknown
Craborchard Creek	4.6 to 7.6	Drakes Creek	490247_02	5110006	Hopkins		NS	NS	NS			pH	Surface Mining, Unknown
Drakes Creek	0.0 to 8.5	Pond Creek	491097_01	5110006	Hopkins		NS	NS	NS			pH	Surface Coal Mining
Pleasant Run	0.0 to 2.1	Drakes Crk	500906_01	5110006	Hopkins		NS	NS	NS			pH	Acid Mine Drainage
Pleasant Run	2.1 to 7.9	Drakes Creek	500906_02	5110006	Hopkins		NS	NS	NS			pH	Acid Mine Drainage
Render Creek	0.0 to 3.3	Lewis Crk	501725_00	5110003	Ohio	NS	NS	NS	NS			pH	Surface Mining, Acid Mine Drainage
UT to South Fork Russell Creek	0.0 to 0.6	South Fork Russell Creek	503945-4.8_00	5110001	Green	NS						Salinity/TDS/Chlorides	Petroleum/Petroleum Natural Gas Activities
<b>Tradewater River Basin</b>													
Cane Run	0.0 to 3.4	Caney Creek	488786_00	5140205	Hopkins		NS					pH	Acid Mine Drainage
Sugar Creek	0.0 to 5.3	Clear Creek	504656_00	5140205	Hopkins	PS	PS	NS	NS			pH	Surface Mining
<b>Sandy-Tygarts Basin Management Unit</b>													
<b>Little Sandy River Basin</b>													
East Fork Little Sandy River	19.0 to 25.0	Little Sandy River	not yet assigned	5090104	Boyd	NS	NS					Organic Enrichment/Low DO	Municipal Point Sources

### Approved TMDLs

						Designated Uses							
						Aquatic Life		Contact Recreation		Con-sump-tion	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	"KY" Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	TMDL Approved for the Impairment Listed	Sources
Newcombe Creek	0.0 to 11.9	Little Sandy River	499428_01	5090104	Elliot	PS						Salinity/TDS/Chlorides	Abandon.Mine Lands, Petrol/Nat Gas Prod, Silvicol, Subsurface Mining, Hab. Mod's, Urban Stormwater

#### Tennessee-Mississippi-Cumberland Basin Management Unit

##### Ohio River Tributaries

Little Bayou Creek	0.0 to 6.5	Ohio River	496607_00	5140206	McCracken					NS		PCBs	Industrial Point Sources
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##### Upper Cumberland River Basin

Bailey Creek	0.0 to 2.5	Clover Fork	510346_00	5130101	Harlan			NS				Pathogens	SSO
Cane Branch	0.0 to 2.0	Middle Fork Beaver Creek	511181_00	5130103	McCreary	NS		NS	NS			pH	Acid Mine Drainage
Catron Creek	0.0 to 8.5	Martins Fork	489099_01	5130101	Harlan			NS				Pathogens	Loss of Rip Hab., Decentral Treat/ Septic Sys, Pack Plants
Clover Fork	0.0 to 29.1	Cumberland River	511423_01	5130101	Harlan		NS					Pathogens	Decentralized Treatment Systems/Septic Systems
Clover Fork	29.1 to 30.3	Cumberland River	511423_02	5130101	Harlan		NS					Pathogens	Municipal Point Source Discharge, Decentralized Treatment Systems/Septic Systems, Collection System Failure, Package Plants

### Approved TMDLs

						Designated Uses							
						Aquatic Life		Contact Recreation		Con- sump- tion	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	"KY" Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	TMDL Approved for the Impairment Listed	Sources
Clover Fork	30.3 to 34.5	Cumberland River	511423_03	5130101	Harlan		NS					Pathogens	Municipal Point Source Discharge, Decentralized Treatment Systems/Septic Systems, Collection System Failure, Package Plants
Cloverlick Creek	0.0 to 5.0	Poor Fork Cumberland River	511427_00	5130101	Harlan			NS				Pathogens	Septic Tanks/Decentral. Sys.
Copperas Fork	0.0 to 4.2	Cooper Creek	511533_00	5130104	McCreary		NS	NS				pH	Acid Mine Drainage
Cumberland River	650.6 to 654.5	Ohio River	517018_07	5130101	Bell			NS				Pathogens	Municipal Point Source Discharge, Collection Sys Failure, Decentralized Treatment/Septic Sys
Cumberland River	684.9 to 694.2	Ohio River	517018_11	5130101	Harlan			NS				Pathogens	Municipal Point Source Discharge, Collection Sys Failure, Decentralized Treatment/Septic Sys
Greasy Creek	0.0 to 11.4	Cumberland River	493234_00	5130101	Bell			PS				Pathogens	Unknown
Left Fk Straight Crk	0.0 to 13.0	Straight Creek	513326_00	5130101	Bell			NS				Pathogens	Unknown
Looney Creek	0.0 to 3.4	Poor Fork Cumberland River	497165_01	5130101	Harlan			NS				Pathogens	Municipal Point Source Discharge
Looney Creek	3.4 to 5.5	Poor Fork Cumberland River	497165_02	5130101	Harlan			PS				Pathogens	Decentralized Treatment Systems/Septic Systems
Martins Fork	0.0 to 10.1	Clover Fork	497628_01	5130101	Harlan			NS				Pathogens	Unknown
Poor Fork	0.0 to 14.9	Cumberland River	514707_01	5130101	Harlan			NS				Pathogens	Unknown

### Approved TMDLs

						Designated Uses							
						Aquatic Life		Contact Recreation		Con- sump- tion	Drink. Water		
Waterbody Name	Impaired Segment	Receiving Waterbody	"KY" Waterbody ID	HUC 8	County	BIO	WQ	PCR	SCR	Fish Tissue	DWS	TMDL Approved for the Impairment Listed	Sources
Poor Fork	14.9 to 16.3	Cumberland River	514707_02	5130101	Harlan			NS				Pathogens	Unknown
Poor Fork	16.3 to 25.1	Cumberland River	514707_03	5130101	Harlan			NS				Pathogens	Unknown
Puckett Creek	0.0 to 10.1	Cumberland River	501413_01	5130101	Bell			NS				Pathogens	Unknown
Richland Creek	0.0 to 6.2	Cumberland River	514915_01	5130101	Knox			NS				Pathogens	Unknown
Richland Creek	6.2 to 15.7	Cumberland River	514915_02	5130101	Knox			NS				Pathogens	Unknown
Richland Creek	15.7 to 20.8	Cumberland River	514915_03	5130101	Knox			NS				Pathogens	Unknown
Rock Creek	0.0 to 4.1	South Fork Cumberland River	515024_01	5130104	McCreary	NS		NS	NS			pH	Acid Mine Drainage, Impacts from Abandoned Mine Lands
Ryans Creek	0.0 to 5.3	Jellico Crk	515156_00	5130101	McCreary	NS		NS	NS			pH	Heap-leach Ext Mining
Straight Creek	0.0 to 1.7	Cumberland River	515746_01	5130101	Bell			NS				Pathogens	Unknown
Straight Creek	1.7 to 23.5	Cumberland River	515746_02	5130101	Bell				NS			Pathogens	Decentralized Treatment Systems/Septic Systems
Wildcat Branch	0.0 to 2.1	Cumberland River	516359_00	5130103	Pulaski	NS		NS	NS			pH	Acid Mine Drainage
White Oak Creek	0.0 to 4.2	Rock Crk	516318_01	5130104	McCreary		NS	NS	NS			pH	Coal Mining
Yocum Creek	0.0 to 6.5	Clover Fork	507228_00	5130101	Harlan			NS				Pathogens	Unknown



## Appendix E. Assessment Methodology

This section is reproduced from Section 3.2 of Volume I of the IR in order to make Volume II a stand-alone document.

**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 (2003). Of those categories, two categories have been divided to better define assessment results, categories 2B and 5B were added by DOW to better track assessed segments. Those categories used by the commonwealth are listed in Table 3.2-1. Many waterbody segments had only monitored data for 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, DOW solicits data from a variety of entities. This includes other government agencies, including state agencies (e.g. Kentucky Department of Fish & Wildlife Resources, Kentucky State Nature

Preserves Commission) and federal agencies including the U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, U.S. Geological Survey and Tennessee Valley Authority. Also, data from universities and volunteer monitoring groups are considered. Prior to 2004 DOW considered volunteer monitoring data for screening purposes only. Although with proper quality assurance/quality control (QA/QC) documentation these data are considered to make assessment decisions, no data were submitted by volunteer groups under an approved QA/QC for assessment consideration in this IR. Meetings with volunteer groups continue, and good progress is being made toward utilizing their data for future assessments.

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 impairments or causes (term used prior to 2006 EPA IR guidance) in EPA's 2006 IR guidance were considered pollution rather than pollutants. The type of impairment is important since a waterbody found not supporting a use and shown to be impaired by pollution, without identified pollutants, does not require a TMDL but rather an alternative plan to restore the use to full support.

A pollutant is a measurable variable that has deleterious effects on the waterbody, e.g. sedimentation/siltation, total phosphorus, ammonia, methylmercury, dissolved oxygen, pH, etc. Pollutants typically are identified for nonsupporting segments, directly linking the pollutants to the designated use.

Those impairments considered pollution are found in Table 3.2-2. Impairment considered to be pollution may not directly cause impairment or water quality degradation. "Habitat assessment" is the most commonly reported pollution impairment for streams not supporting aquatic life use. Another example is "alteration in stream-side or littoral vegetative covers." The loss of this vegetative buffer results not only in loss of shading and increased water temperature but also increased sedimentation/siltation and nutrients (pollutants) that degrades water quality, in-stream habitat and biological communities.

**Table 3.2-2. List of those impairments or causes considered pollution by the DOW  
(ADB numerical codes listed).**

- (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) Zebra mussels, *Dreissena polymorpha*
- (445) Abnormal fish deformities, erosions, lesions, tumors
- (446) Habitat assessment (lakes)
- (450) High flow regime
- (459) Taste and odor
- (460) Aquatic plants – native
- (465) Fish advisory – no restriction
- (471) Bottom deposits
- (477) Bacterial slimes
- (478) Aquatic plants (macrophytes)
- (479) Aquatic algae

Streams with habitat assessment as the identified pollution usually make their way onto the 303(d) list since there are also associated pollutants such as sedimentation/siltation. In the uncommon circumstance where habitat assessment is the only reported impairment, pollutants have not been observed or measured that contribute to the biological indicator community not supporting, so “impairment unknown” will be listed. For management purposes and because of the likelihood that a not-yet identified pollutant is present, waterbodies listed with “impairment unknown” are placed on the category 5 303(d) list. In these instances, more intensive investigation is needed to determine individual pollutants. It is also recognized that to restore aquatic life use, pollution (e.g. riparian vegetative zone) will be addressed as part of the process of reducing the pollutants.

Another group of impairments considered pollution includes non-native aquatic plants, non-native fish, shellfish, or zooplankton and zebra mussel. While these conditions are undesirable and can have a negative impact on the native plant or animal communities in a waterbody, the non-native species have been introduced accidentally or intentionally via commerce or recreation (ship ballasts, boating (carrying zebra mussels or exotic plants from one area to another), aquarists, sportspersons (non-native trout), etc.). To write a TMDL to eliminate these species would often be more damaging to the environment (e.g. biocides or mechanical removal) than leaving them in-place; they are so widespread and prevalent where they occur it is not feasible to remove or eradicate them. 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 if all biological community metrics indicate the aquatic life use is supporting.

There are several other impairments that may be indicators of nonsupport of aquatic life use and are considered pollution and not pollutants: 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. Through physicochemical data taken at time of biosurveys and in-stream habitat and land use observations, the most significant pollutants contributing to the degraded biological community are usually recognized.

The total number of assessed stream miles was determined by adding the miles assessed by targeted monitoring and the miles represented by the site-specific random survey (not extrapolated data).

### **3.2.1 Aquatic Life and Primary Contact Recreation Use Support**

The water quality and biological data provided by the programs described in the preceding pages 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 support/nonsupport determinations. Given the comprehensive suite of parameters sampled by DOW for many stream assessments, both biological and physicochemical, a determination can typically be made as to the cause(s) and source(s) of pollutant/pollution affecting the resource; however, this is often best professional judgment and further study will lead to better resolution 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” (assessment code 150), but this did not change the assessment category a water body and/or segment had been assigned to 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. Approximately 17,500 stream miles had been monitored in the commonwealth by targeted efforts through March 2005. 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. All efforts in the watershed initiative were to gather defensible, monitored data. However, 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 DOW 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 (April 2001 - March 2005 for the ambient stations and 12 months for the targeted rotating watershed cycle stations). 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.

**Table 3.2.-3 Kentucky designated uses and indicators used to assess level of support.**

<u>Use</u>	<u>Aquatic Life</u>	<u>Recreation</u>	<u>Fish Consumption</u>	<sup>a</sup> <u>Drinking Water</u>
Core Indicators	<u>Stream:</u> 1-3 biological communities: macroinvertebrates, diatoms and fishes Dissolved oxygen Temperature pH Specific conductance  <u>Lake/Reservoir:</u> Dissolved oxygen Temperature pH Specific conductance Fish kills	<u>Stream:</u> Pathogen indicators: fecal coliform; <i>E. coli</i> pH  <u>Lakes/Reservoir:</u> Pathogen indicators: fecal coliform or <i>E. coli</i> pH	Mercury PCBs	Inorganic chemicals Organic chemicals Pathogen indicators: fecal coliform, <i>E. coli</i>
Supplemental Indicators	Chlorophyll- <i>a</i> 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

<sup>a</sup>All core indicators are based on "at the tap" MORs received from PWS

Data for mercury, cadmium, copper, iron, lead and zinc were analyzed for observations exceeding 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 observation exceeded criteria at stations with monthly sampling. 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 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 48 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.

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 >400 colonies per 100 mL (>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 >33 percent of samples. Secondary contact recreation (SCR) was also assessed following the same method using fecal coliform data at the concentration of >2000 colonies per 100 mL. Streams with pH <6.0 SU or >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 the recreation season; and impaired, nonsupport if the criterion was exceeded in more than 10 percent of samples during the recreation season.

**Biological Data (streams).** Decisions about use attainment for aquatic life are primarily made using biological data obtained from monitoring programs within the DOW 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 monitors 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 is dependent on the indicator community(s) health and integrity, with supplemental physicochemical and habitat data. These results are applied for assessment purposes as outlined in Table 3.2.1-2.

<b>Table 3.2.1-2. Biological criteria for assessment of warm water aquatic habitat (streams) use support<sup>a</sup>.</b>			
<u>Indicator</u>	<u>Fully Supporting</u>	<u>Partial Support</u>	<u>Nonsupport</u>
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.

<sup>a</sup>Acronyms used in this table: EPT= Ephemeroptera, Plecoptera, Trichoptera; RA= Relative Abundance; TNI= Total Number of Individuals



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 multiple consumer levels 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. DOW 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  $\mu\text{m}$  openings), and live at least part of their life cycle within or upon available substrates of a waterbody. DOW relies on the analyses of macroinvertebrate communities in level of use support assessment for sections 305(b) and 303(d) of the Clean Water Act (CWA). 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 for providing reliable assessments for the CWA, Section 305(b). The primary goal of evaluating fish community structure is to ensure accurate assessments for 305(b) is to calculate the Index of Biotic Integrity (IBI) (Kentucky Index of Biotic Integrity (KIBI)) of the community 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).

Algae (primarily diatoms) are indicators of water quality, particularly as it relates to trophic (fertility) status and toxicity conditions. The Diatom Bioassessment Index (DBI) is calculated when this indicator community is monitored. This indicator group is

critical to the food web of streams, beginning the process of primary production through photosynthesis.

**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/Reservoirs.** Lakes/reservoirs were assessed for aquatic life by measuring several physicochemical indicators, in addition to 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, those core and supplemental indicators (Table 3.2.1-1) are of utmost importance to assure water quality conditions are suitable for supporting primarily sportfish, and associated prey fishes; these populations are the primary concern for aquatic life use being met or not in created environments. Table 3.2.1-3 outlines the criteria used in making use assessment decisions.

Trophic status was assessed in lakes/reservoirs using the Carlson Trophic State Index (TSI) for chlorophyll-*a*. This method was convenient because it allows lakes to be ranked numerically according to increasing eutrophy, and also provides for a distinction between oligotrophic, mesotrophic, eutrophic, and hyper-eutrophic lakes. 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 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 DOW’s permit compliance database. Depending on the relative sizes of the wastewater discharge, the receiving stream and the severity of

**Table 3.2.1-1. Criteria for lake/reservoir use support classification.**

<u>Category</u>	<u>Warm Water Aquatic Habitat</u>	<u>Secondary Contact Water Recreation</u>	<u>Domestic Water Supply</u>
Not Supporting:	(At least two of the following criteria)	(At least one of the following criteria)	(At least one of the following criteria)
	Fish kills caused by poor water quality	Widespread excess macrophyte/macroscopic algal growth	Chronic taste and odor complaints caused by algae
	Severe hypolimnetic 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		Exceeds drinking water MCL
Partially Supporting: (At least one of the following criteria)	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
	Severe hypolimnetic oxygen depletion	Occasional nuisance algal blooms	Occasional treatment problems caused by poor water quality
	Other specific cause (i.e. low pH)	High suspended sediment concentrations during the recreation season	
Fully Supporting:	None of the above	None of the above	None of the above

the violations of permit limits, 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 DOW and COE resulted. Reservoir water quality variables were monitored over the growing season (March – October) and major in-flow and out-flow tributaries of these reservoirs were monitored for water quality. Aquatic life use support level was determined using these monitored data for reservoir and monitored tributaries. The Louisville COE District covers both the Kentucky River and Salt-Licking Rivers BMUs reported on in this IR.

### **3.2.3 Fish Consumption Use Support**

Fish consumption is a category that, 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 gave a clearer picture of actual water quality conditions.

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 was 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 was 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 0.3 mg/Kg. Therefore, for purposes of 305(b) reporting, waters were not considered impaired unless fish exhibited mercury tissue concentrations of at least 0.3 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 average concentration  $\leq 0.3$  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 average concentration  $> 0.3$  mg/Kg – 1.0 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 average concentration  $> 1.0$  mg/Kg.

### **3.2.4 Drinking Water Supply**

Drinking water use support was determined in several ways. 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 DOW, 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). The routine application of a biocide, or use of carbon filtration, were reasons for assessing a source of water as not fully supporting the domestic water supply use. In-stream water quality data generally were not available to assess drinking water use.

### **3.2.5 Impairments and Sources**

Impairments (pollutants and pollution) and sources were categorized according to EPA guidance. Impairments for primary contact recreation, fish consumption, and water supply usually were easily identified. The majority of segment/waterbodies not supporting aquatic life use were determined by biological monitoring; in addition to occasional physicochemical indications of impairment, impairments were often identified by biocommunity index(s), and observations and judgment of field biologists. All impairments may not be evident in the field and there may be other pollutants contributing to use impairment that were not listed. Sources of all types of use impairments were more difficult to determine and should be considered as “probable” sources at the 305(b) stage. Once on the 303(d)-list, subsequent intensive monitoring and watershed reconnaissance of land uses will more fully identify sources.

### **3.2.6 Determination of Assessment Segments**

Once an assessment is made on a waterbody, an appropriate segment or portion of the water body representative of the monitored area is determined. Part of this determination is 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 occurs 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 to the point 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 from sample area, such as leaving a contiguous forested area, and entering a non-forested area with fragmented riparian vegetative zone. Since many of DOW’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 follows the defined segment for the accompanying aquatic life use assessment.

Those waters assessed for aquatic life use having biological community data often will be of shorter segment reach since these indicators are typically more responsive to subtle changes in water quality as they integrate these conditions over a relatively long time. Also, the habitat conditions along the corridor being assessed are paid close attention to for the same reasons as physicochemical considerations for biological communities. Typically the smaller the watershed, a proportionately greater segment will be defined since the conditions and influences from surrounding land use are similar and localized in those streams. In larger watersheds, typically greater than five square miles, proportionately smaller assessment segments are defined due to the increased potential of sources of pollutants and habitat influences. These segments 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 long ranging, and that factor has significant consideration in defining segments. Also, with the plethora of sources, and the fact that much of the mercury 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.** Since this use was assessed using finished water data supplied by Public Water Systems (PWS), the assessment 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 those other uses that overlapped the PWS withdrawal point. This was a result of not being able to have multiple uses assessed as different segments within assessment segments. In the case of reservoirs, the assessment was applied to the waterbody.

Most stream miles in Kentucky not supporting aquatic life use are impaired primarily by the pollutants sedimentation/ siltation (habitat smothering), nutrient enrichment, and salinity/TDS/ chlorides, and pollution in the form of habitat alterations

(often related to loss of vegetation in the riparian zone). All these pollutants affect habitat or physicochemical variables that manifest in the biological community structure.





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