

Watershed Name: Kentucky River

11-Digit Watershed Identity Number: 05100204080

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Summary of Basin Characteristics and Facilities

General Land-use Characteristics:

Total Land Area (Acres):	<input type="text" value="32,988"/>	Acres	% of Total		
Residential Area:	<input type="text" value="906"/>	<input type="text" value="2.7"/>		Number of Mine Permits:	<input type="text" value="1"/>
Commercial Area:	<input type="text" value="100"/>	<input type="text" value="0.3"/>		Total Permitted Mining Area (Acres):	<input type="text" value="38"/>
Industrial Area:	<input type="text" value="17"/>	<input type="text" value="0.1"/>		Number of Identified Wetland Areas:	<input type="text" value="18"/>
Agricultural Area:	<input type="text" value="16,259"/>	<input type="text" value="49.3"/>		Total Wetland Area (Acres):	<input type="text" value="21"/>
Rural and Wooded Area:	<input type="text" value="15,489"/>	<input type="text" value="47.0"/>			
Other Land-use Area:	<input type="text" value="184"/>	<input type="text" value="0.6"/>			

Withdrawal and Discharge Sites:

Number of Public Water Supplies and Water Withdrawal Sites:	<input type="text" value="4"/>	Number of KPDES Discharge Permits:	<input type="text" value="8"/>
Surface Water Withdrawals:	<input type="text" value="4"/>		
Groundwater Withdrawals:	<input type="text" value="0"/>		
No. of Potable Water Treatment Facilities:	<input type="text" value="1"/>		

Sampling Site Statistics:

Number of USGS Gaging Stations:	<input type="text" value="0"/>
Number of Kentucky Division of Water Sampling Sites:	<input type="text" value="0"/>
Number of Kentucky Dept. of Fish and Wildlife Sampling Sites:	<input type="text" value="0"/>
Number of US Forest Service Sampling Sites:	<input type="text" value="0"/>
Number of US Army Corps of Engineers Sampling Sites:	<input type="text" value="0"/>
Number of Kentucky River Watershed Watch Sampling Sites:	<input type="text" value="0"/>
Number of Lexington-Fayette Urban Co. Gov. Sampling Sites:	<input type="text" value="0"/>

Watershed Indicators and Ranking Categories: **Overall Watershed Ranking:**

Protection Ranking	Observed Impacts	Potential Impacts	Restoration Ranking	Medium
High	Medium	High	Medium	

Protection Categories:

Indicator	Value	Units	Range of All Watersheds	Mean of All Watersheds
Wetland Areas	21	Acres	0 - 106	12
Surface Drinking Water Sources	4	No. of sources	0 - 14	2
Ground Drinking Water Sources	0	No. of sources	0 - 17	1
Groundwater Sensitivity	2.91	Score	2 - 5	3.21
KY Dept. of Fish and Wildlife Management Areas	0	Acres	0 - 2951	93
U.S. Forest Service Management Areas	10	Acres	0 - 155253	12,600
Kentucky State Park Areas	0	Acres	0 - 1928	42
Nature Preserves Commission Areas	0	Acres	0 - 1430	32
Nature Conservancy Areas	0	Acres	0 - 2473	28
Reference Reach Watersheds	0.00	Score	0 - 100	3.08
Outstanding Resource Watersheds	0.00	Score	0 - 0	0.00
Recognized Stream Resources	0	No. of resources	0 - 8	1
Kentucky Rivers Assessment Scores	11.18	Score	0 - 11	1.80

Observed Impact Categories:

Human Health Impact Categories:

Indicator	Value	Units	Range of All Watersheds	Mean of All Watersheds
Flood Declarations	3	Number since 1970	0 - 10	4
Water Supply Inadequacy	1.00	Score	0 - 2	0.22
Observed Impacts to Surface Drinking Water	1.00	Score	1 - 1	1.00
Observed Impacts to Fish Consumption	1.00	Score	1 - 1	1.00
Observed Impacts to Primary Water Contact	1.00	Score	1 - 3	1.33
Contamination Sites Impacting Human Health	2	Number of sites	0 - 71	4

Ecological Health Impact Categories:

Indicator	Value	Units	Range of All Watersheds	Mean of All Watersheds
Observed Impacts to Aquatic Life	1.00	Score	1 - 3	1.31
Contamination Sites Impacting Ecological Health	2	Number of sites	0 - 71	4

Potential Impact Categories:

Indicator	Value	Units	Range of All Watersheds	Mean of All Watersheds
Potential Contamination Sites	10	Number of sites	1 - 121	12
Potential Pesticide Loading	9	Est. sales in tons	0 - 45	10
Potential Fertilizer Loading	250	Est. tons applied	0 - 2747	394
Agricultural Erosion Potential	2.23	Est. tons erosion / acre	0 - 9	3.20
Livestock Operations Potential Impact	5,764	Animal units	55 - 43826	7,021
KPDES Discharge Violations	262	Number of violations	0 - 541	39
KY Division of Water Citizen Complaints	3	Number of complaints	0 - 53	9
Toxic Release Inventory	0	Score	0 - 11547626	231,638
Population Change Projection	327	Number of persons	-149 - 11030	448
Population Not on Public Sewer Systems	975	Number of persons	12 - 4511	1,114
Mining Area	36	Acres	0 - 6305	355
Surface Water Runoff Potential	77.75	SCS Curve Number	60 - 79	68
KPDES Permitted Discharges	8	Number of sites	0 - 56	6

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Stream and Waterbody Use Support Summary

<i>Total Stream Miles:</i>						
<input type="text" value="38.65"/>	<i>Number of Segments</i>	<i>Stream Miles Assessed</i>	<i>Miles * Fully Supportina</i>	<i>Miles * Partially Supportina</i>	<i>Miles * Not Supportina</i>	<i>Miles * Threatened</i>
<i>Segments Assessed:</i>	1	26.7	26.7	0.0	0.0	0.0
<i>Designated Uses</i>						
<i>Aquatic Life:</i>	1	26.7	26.7	0.0	0.0	0.0
<i>Primary Contact:</i>	1	26.7	26.7	0.0	0.0	0.0
<i>Fish Consumption:</i>	1	26.7	26.7	0.0	0.0	0.0
<i>Drinking Water:</i>						

* Blank values indicate no assessed segments for this category.

<i>Assessed Stream Segments and Waterbodies</i>					
<i>Stream or Waterbody Name *</i>	<i>Starting Milepoint</i>	<i>Ending Milepoint</i>	<i>Segment Length (miles)</i>	<i>Designated Uses *</i>	<i>Overall Level of Support</i>
Kentucky River	190.8	217.5	26.7	AL, FC, PC	Fully Supporting

**Abbreviations: AL - Aquatic Life Support, PC - Primary Contact Recreation, SC - Secondary Contact Recreation, FC - Fish Consumption, DW - Drinking Water Supply, UT - Unnamed Tributary*

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Withdrawal Sites and Discharge Facilities:

<i>Public Water Supplies and Water Withdrawal</i>			
<i>Facility</i>	<i>Origin of Source</i>	<i>Type of Facility</i>	<i>Permit ID Number</i>
IRVINE MUNICIPAL UTILITIES	Surface Water	Water Withdrawal Site	0330205
KENTUCKY PROCESSING COMPANY	Surface Water	Water Withdrawal Site	WW0798
RICHMOND WATER/GAS/SEWER WORKS	Surface Water	Water Treatment Plant	0760370
RICHMOND WATER/GAS/SEWER WORKS	Surface Water	Water Withdrawal Site	0760370

<i>KPDES Permitted Discharge Facilities</i>			<i>KPDES Site ID Number</i>
<i>Facility</i>	<i>Type of Facility</i>		
BLUE RIDGE RDF	REFUSE SYSTEMS		KY0091707
CAMP BURNAMWOOD	SPORTING & RECREATIONAL CAMPS		KY0081728
ESTILL CO WATER DIST STP	SEWERAGE SYSTEMS		KY0095940
HARGETT ELEM SCHOOL	ELEMENTARY & SECONDARY SCHOOLS		KY0074314
IRVINE STP	SEWERAGE SYSTEMS		KY0025909
RICHMOND PUB UTIL KY RIVER PLT	WATER SUPPLY		KY0003204

Gaging Stations and Sampling Sites:

<i>US Geological Survey and US Army Corps of Engineers Stream Gaging Stations</i>			
<i>Stream Location</i>	<i>Agency</i>	<i>Station ID Number</i>	<i>Sampling Parameter</i>
Kentucky River	US COE	USCE374703084061301	Flow