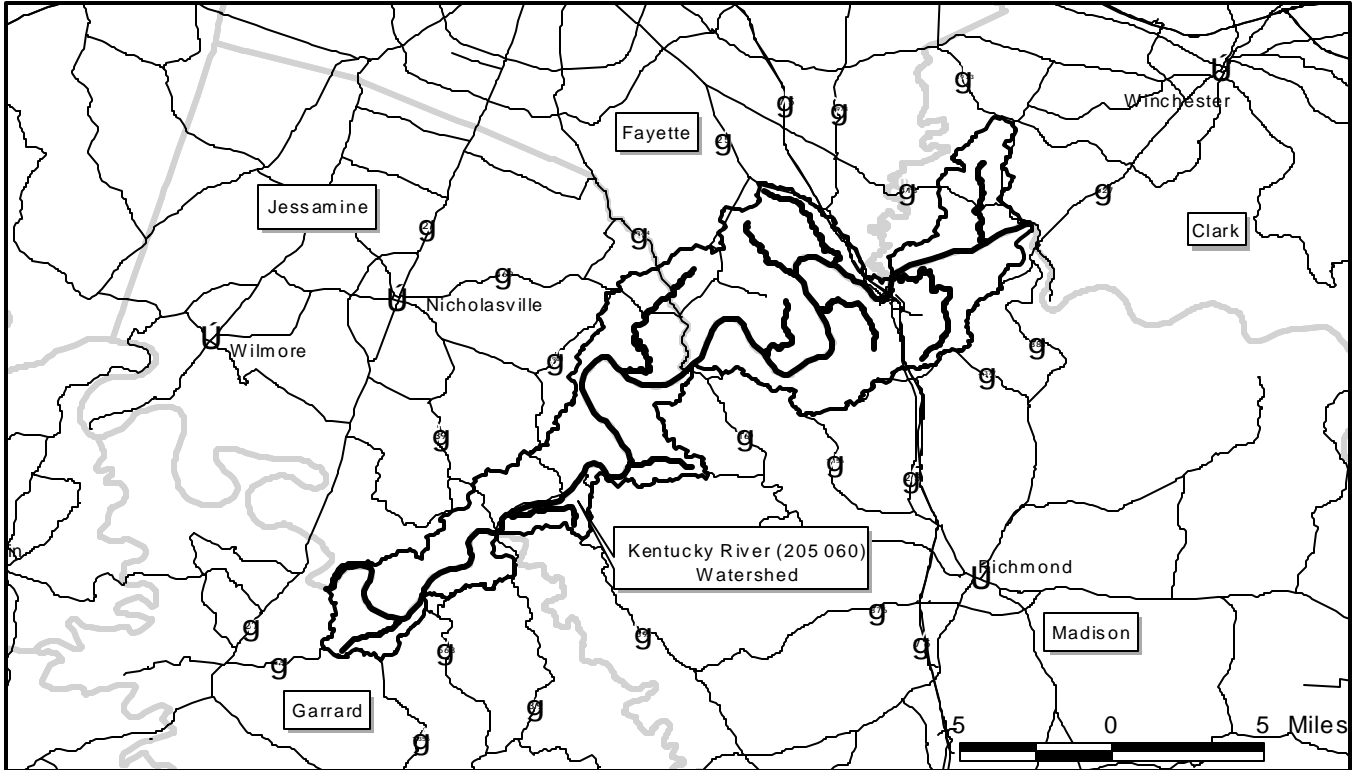


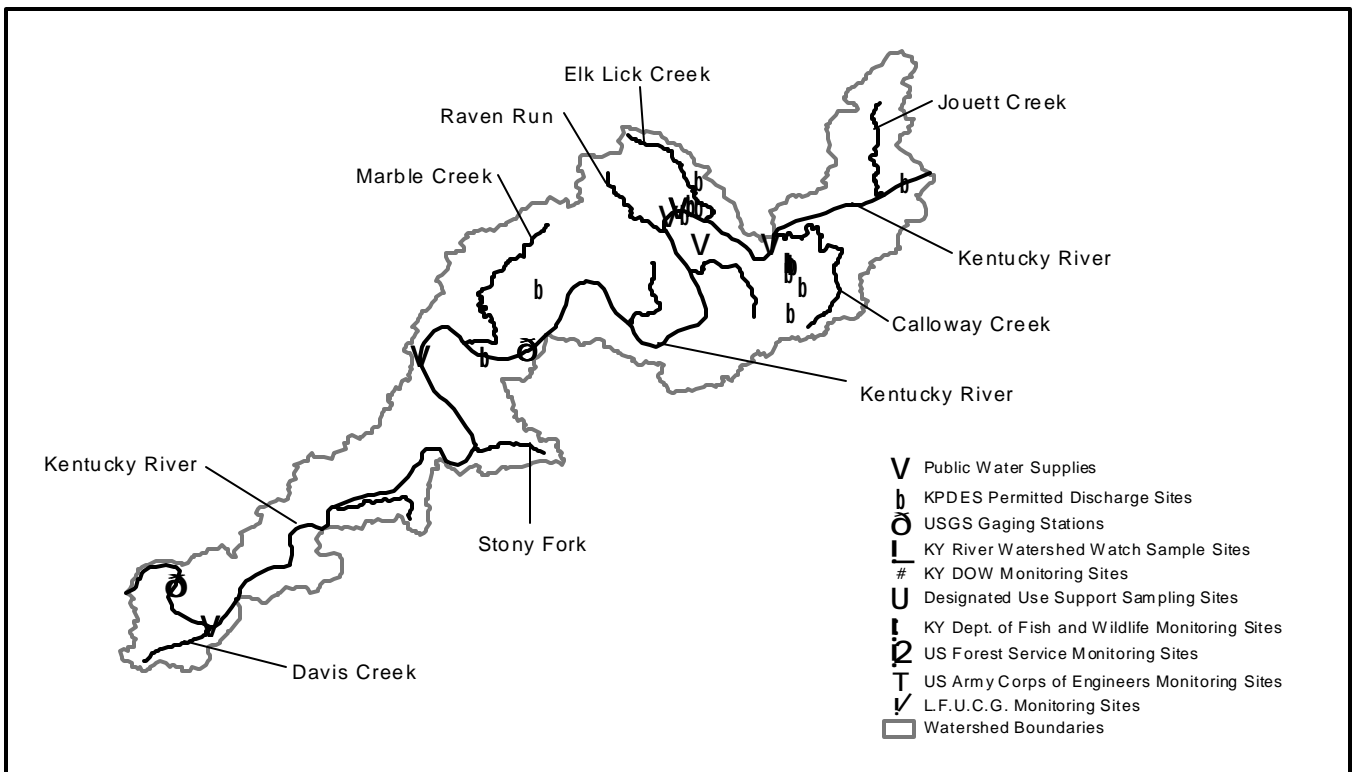
Kentucky River (205 060) Watershed

Watershed Number: 05100205060

Location Map



Watershed Features



Geography. The Kentucky River 205 060 watershed includes parts of the following counties: Clark, Madison, Fayette, Jessamine, and Garrard. The land is in the hills of the bluegrass subregion of the Bluegrass physiographic region, characterized by hilly terrain, very rapid surface runoff, and slow groundwater drainage. The northern side of the watershed lies above thick layers of easily dissolved limestone that form carbonate aquifers. Groundwater flows through channels in the limestone, so caves and springs are common in regions with this geology. The southern side includes areas of interbedded shales and limestones (these are 20% limestone; water conduction is poor because of the clay content of the shale) and areas of interbedded limestones and shales (>20% limestone, allowing groundwater flow where the clay content is low enough).

Waterways. This watershed includes the Kentucky River from Lower Howard Creek (Lisletown) to just below Lock and Dam Number 8. Among the creeks that feed it are Jouett Creek, Calloway Creek, Elk Lick Creek, Raven Run, Marble Creek, Stony Fork, and Davis Creek. Water from the Kentucky River 205 005, Lower Howard Creek, Otter Creek, Boone Creek, Tate Creek, Silver Creek, Paint Lick Creek, and Sugar Creek watersheds also flows into this watershed.

Land and water use. Land in the watershed is about two-thirds agricultural and nearly one-third rural and wooded. The surface waters of the watershed supply the drinking water for municipal systems in Lexington, Nicholasville, and Lancaster. Eight businesses and organizations hold permits for discharges into the creeks. See tables for details.

Agency data assessment. No assessments were made in this watershed.

Watershed rankings. The ranking formula provides a preliminary ranking by synthesizing a broad spectrum of watershed characteristics, current conditions, and threats. This watershed ranks in the group with the highest need for protection and/or restoration. This rating is for the watershed on average: particular sites and particular waters within the watershed may vary widely. See tables for details.

Volunteer data. No volunteer data were collected in this watershed in 1999.

Watershed Name: Kentucky River

11-Digit Watershed Identity Number: 05100205060

This report was prepared by the Kentucky Water Research Institute as a product of the statewide Kentucky Watershed Management process. Information presented in this report was collected from many sources. Reasonable attempts were made to ensure that information and figures are as accurate as possible, but no representation or guarantee is made as to either the correctness or suitability of information for particular purposes. All critical information should be independently verified. Please address questions or corrections to Basin Coordinator, KWRI, Rm. 233 Mining and Minerals Resources Building, University of Kentucky, Lexington, Kentucky 40506-0107.

Summary of Basin Characteristics and Facilities

General Land-use Characteristics:

Total Land Area (Acres):	52,351	Acres	% of Total		
Residential Area:	617		1.2	Number of Mine Permits:	0
Commercial Area:	438		0.8	Total Permitted Mining Area (Acres):	0
Industrial Area:	47		0.1	Number of Identified Wetland Areas:	69
Agricultural Area:	35,037		67.0	Total Wetland Area (Acres):	38
Rural and Wooded Area:	16,102		30.8		
Other Land-use Area:	82		0.2		

Withdrawal and Discharge Sites:

Number of Public Water Supplies and Water Withdrawal Sites:	10	Number of KPDES Discharge Permits:	16
Surface Water Withdrawals:	9		
Groundwater Withdrawals:	1		
No. of Potable Water Treatment Facilities:	5		

Sampling Site Statistics:

Number of USGS Gaging Stations:	0
Number of Kentucky Division of Water Sampling Sites:	0
Number of Kentucky Dept. of Fish and Wildlife Sampling Sites:	0
Number of US Forest Service Sampling Sites:	0
Number of US Army Corps of Engineers Sampling Sites:	0
Number of Kentucky River Watershed Watch Sampling Sites:	0
Number of Lexington-Fayette Urban Co. Gov. Sampling Sites:	0

Watershed Name: Kentucky River

11-Digit Watershed Identity Number: 05100205060

Stream and Waterbody Use Support Summary

<i>Total Stream Miles:</i> <input type="text" value="63.44"/>	<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>	0	0.0				
<i>Designated Uses</i>						
<i>Aquatic Life:</i>	0	0.0				
<i>Primary Contact:</i>						
<i>Fish Consumption:</i>						
<i>Drinking Water:</i>						

* Blank values indicate no assessed segments for this category.

Watershed Name: Kentucky River

11-Digit Watershed Identity Number: 05100205060

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>
BULL RUN LLC/BULL AT BOONE'S TRACE	Surface Water	Water Withdrawal Site	WW1416
BULL RUN LLC/BULL AT BOONE'S TRACE	Surface Water	Water Withdrawal Site	WW1417
CLAYS FERRY CAMPGROUND	Groundwater	Water Treatment Plant	0762058
KENTUCKY-AMERICAN WATER CO	Surface Water	Water Treatment Plant	0340250
KENTUCKY-AMERICAN WATER CO	Surface Water	Water Withdrawal Site	0340250
LANCASTER WATER WORKS	Surface Water	Water Treatment Plant	0400233
LANCASTER WATER WORKS	Surface Water	Water Withdrawal Site	0400233
NICHOLASVILLE WATER DEPARTMENT	Surface Water	Water Treatment Plant	0570315
NICHOLASVILLE WATER DEPARTMENT	Surface Water	Water Withdrawal Site	0570315

<i>KPDES Permitted Discharge Facilities</i>			<i>KPDES Site ID Number</i>
<i>Facility</i>	<i>Type of Facility</i>		
BLUEGRASS WOODMEN YOUTH CAMP	SPORTING & RECREATIONAL CAMPS	KY0044105	
CLAYS FERRY TRAVEL PLAZA	GASOLINE SERVICE STATIONS	KY0078131	
EKU D J WILLIAMS FIRING RANGE	COLLEGES, UNIV & PROF SCHOOLS	KY0082422	
KY AMERICAN WATER CO	WATER SUPPLY	KY0091049	
NICHOLASVILLE WTP	WATER SUPPLY	KY0089915	
NICHOLASVILLE WTP	WATER SUPPLY	KYG640081	
PTRL EAST INC	LAB APPARATUS & FURNITURE	KY0094803	
VULCAN MATERIALS CO	CRUSHED AND BROKEN LIMESTONE	KYG840196	
WOODLAND COUNTRY ESTATES MHP	OPER OF RES MOBILE HOME SITES	KY0099601	

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	USCE375037084262601	Flow
Kentucky River	US COE	USCE03284230	Flow
Kentucky River	USGS	USGS03284230	Flow
Kentucky River	USGS	USGS03284500	Flow
Kentucky River	US COE	USCE374442084351401	Flow