

Mill Creek watershed (051002-05-430)

Geography. The Mill Creek watershed covers southwestern Carroll County and north-central Henry County, with a sliver of Trimble County. The higher, Henry County portion of the watershed is in the outer subregion of the Bluegrass physiographic region, characterized by undulating terrain, moderate to rapid surface runoff, and moderate rates of groundwater drainage. The lower, Carroll County portion of the watershed is in the hills of the bluegrass subregion, characterized by hilly terrain, very rapid surface runoff, and slow groundwater drainage. Parts of the watershed lie over interbedded shales and limestones (these are 20% limestone; water conduction is poor because of the clay content of the shale). Other areas are underlain by interbedded limestones and shales (>20% limestone, allowing groundwater flow where the clay content is low enough).

Waterways. Mill Creek empties into the Kentucky River east of English. Among the creeks that feed it are Long Branch, East Fork, West Fork, Gilgal Branch, Pryor Branch, and Lees Creek.

Land and water use. Land in the watershed is about 5% residential and commercial; the rest of the watershed is roughly equally divided between agricultural and rural and wooded land. No businesses or organizations hold permits for discharges into the creeks. See the 2000 Assessment Report for full details.

Agency data assessment. The assessed creek segments in this watershed include one (West Fork) that only partially supports its designated uses, based on biological and/or water-quality data. Siltation and stream modification contribute to the impairment of the stream. See the 2000 Assessment Report or 2000 305(b) list and the 2002 303(d) list of impaired streams for full details.

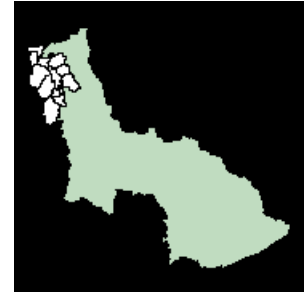
Kentucky River Basin Management Plan, 2002. Information is from the first basin cycle (1997-2002), including the 1998-1999 monitoring effort and the 2000 Assessment Report. See kywatersheds.org or www.uky.edu/WaterResources/Watersheds for the complete Assessment Report and Management Plan.

Watershed Restoration Ranking			Watershed Protection Rank	Overall Watershed Rank	Framework Mobilization Category
<i>Observed Impacts</i>	<i>Potential Impacts</i>	<i>Combined Rank</i>			
Low	Medium	Low	Low	Low	IV

Watershed Highlights

Watershed covers 30 square miles.

West Fork Mill Creek below Pryor Branch only partially supports aquatic life, because of sedimentation [2000 305(b)].



Lower Kentucky River



See the color map of this region on p. 137.


LEGEND



- Area of this watershed

- Sewage plants

- Public water supplies

- Other water withdrawals

- Locks & dams

- Cities and towns

- Rivers and larger streams

- Smaller streams

- County borders