

## Clarks Run watershed (051002-05-190)

**Geography.** The Clarks Run watershed is in southeastern Boyle County and an adjacent edge of Lincoln County. The land is in the inner subregion of the Bluegrass physiographic region, characterized by undulating terrain and moderate rates of both surface runoff and groundwater drainage. The watershed lies partly above fractured shales through which groundwater can easily move but which stores very little water. Other parts lie over interbedded clay shales and siltstones. There are also 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.** Clarks Run empties into the Dix River east of Danville, near Little Needmore. Among the creeks that feed it is Balls Branch.

**Land and water use.** Land in the watershed is more than 80% agricultural. It includes the southern half of Danville, and therefore is about 8% residential, and about 8% commercial or industrial. Five businesses and organizations hold permits for discharges into the creeks. See the 2000 Assessment Report for full details.

**Agency data assessment.** Three assessed segments of Clarks Run include one that does not support its designated uses, based on biological and/or water-quality data. One fully supports uses, and one only partially supports uses. Organic enrichment from municipal point sources and urban runoff contribute to the impairment of these streams. Pesticides from urban runoff also contribute in the nonsupporting segment. 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](http://kywatersheds.org) or [www.uky.edu/WaterResources/Watersheds](http://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	Medium	Low	IV

## Watershed Highlights

Watershed covers 28 square miles.

Danville discharges treated sewage into the watershed.

Aquatic life fully or partially impaired by overenrichment and pesticides in Clarks Run below sewage plant (1st and 2nd priority TMDL 2002).

Groundwater is substantially more sensitive than the basin average.

This is a Watershed Watch Citizen Action Plan watershed.



Dix River Region



See the color map of this region on p. 131.

### 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

