



**BASE SOURCE:**  
U.S. Geological Survey Topographic 7.5' quadrangles, Scale 1:24,000, Cecilia, Elizabethtown, Nelsonville, Sonora, Tonieville, Hodgenville.

SCALE 1:48000

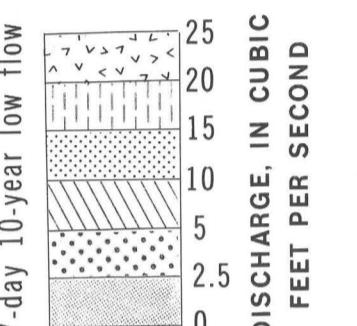
1 0 1 2 3 4 5 MILES

1 0 1 2 3 4 5 KILOMETERS

## EXPLANATION

## ENGAGING STATIONS

- ▲ Partial-record gaging station (floods)
- ▲ Measurement site without a gage
- 41 Map number
- 130 Station number
- 5 Area above site, in square miles (approximated)
- X Small rapids at low flow on Nolin River below Gilead Church
- Basin boundary (surface water)
- Subbasin boundary (surface water)
- Area where no base flow was observed in period of study



## QUALITY-OF-WATER SITES

- ▼ Active site
- ▼ Chemical-measurement site
- ▼ Temperature-measurement site

### Chemical composition

ture above line at center of circle is carbonate hardness  
calcium-magnesium hardness, as  $\text{CaCO}_3$ ) in mg/L (milligrams  
per liter); figure below line is dissolved solids in mg/L.  
hardness of water is classified by the Geological Survey as  
follows: 0-60 mg/L soft; 61-120 mg/L moderately hard;  
121-180 mg/L hard; 181 mg/L or more, very hard.  
reas of the segments of each circle are proportional  
to the mineral components in the dissolved solids in the  
water. Percentages are computed from milliequivalents  
per liter of anions and cations. Calcium and magnesium  
are shown as one segment in partial analysis. Date  
sample collected and discharge in  $\text{ft}^3/\text{s}$  are shown on  
header. Chemical symbols are as follows: Br, bromide;  
Ca, calcium; Cl, chloride;  $\text{CO}_3$ , carbonate; F, fluoride;  
 $\text{CO}_3$ , bicarbonate; I, iodide; K, potassium; Mg,  
magnesium; Na, sodium;  $\text{NO}_3$ , nitrate; and  $\text{SO}_4$ , sulfate.

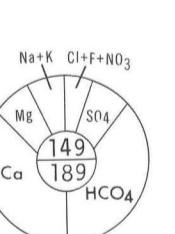


figure above line at small circle is temperature of water, in °C; figure below line is specific conductance of water in micromhos per centimeter at 25°C.