

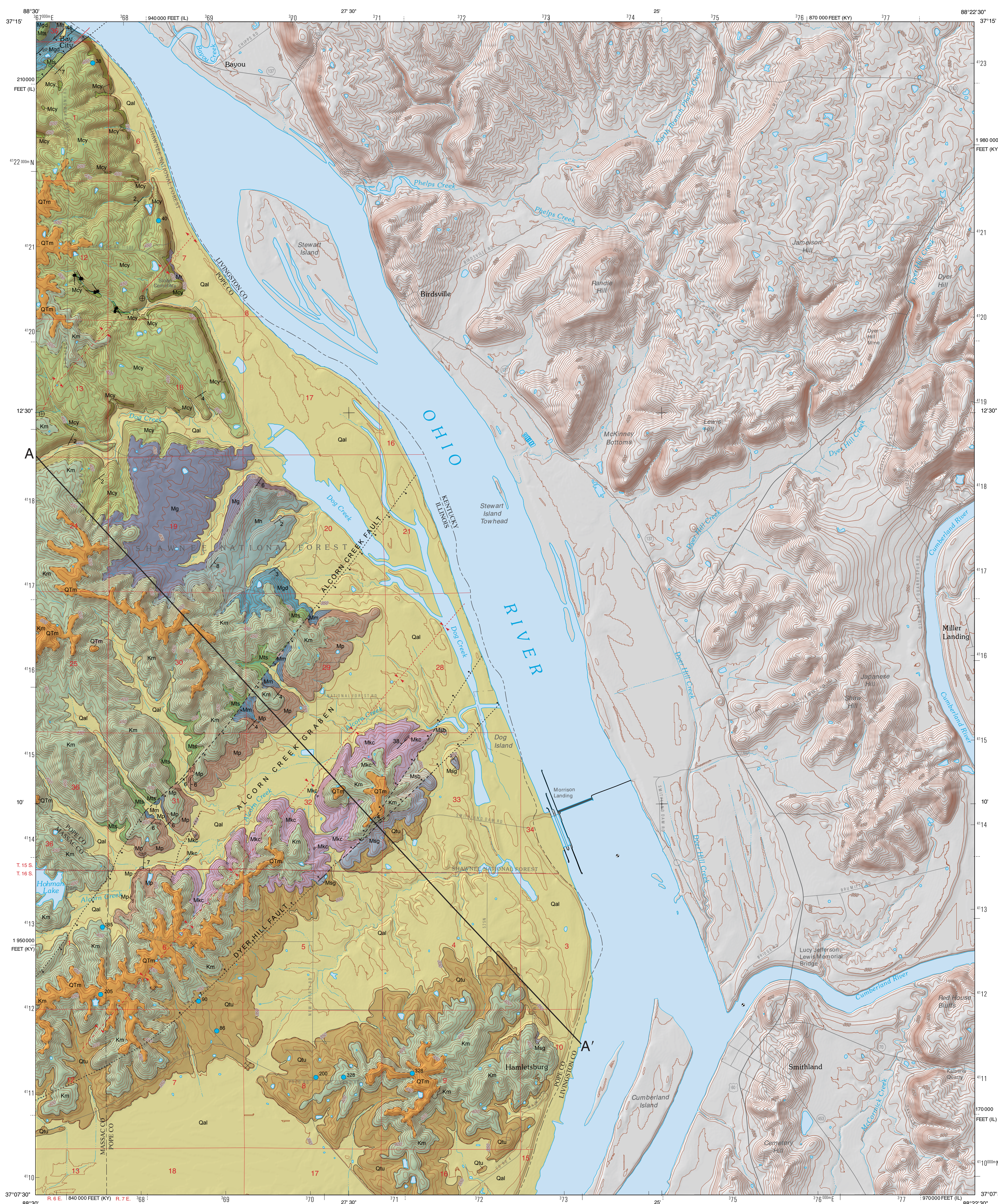
# BEDROCK GEOLOGY OF SMITHLAND QUADRANGLE

## POPE AND MASSAC COUNTIES, ILLINOIS

Prairie Research Institute  
ILLINOIS STATE GEOLOGICAL SURVEY

Illinois Geologic Quadrangle Map  
IGQ Smithland-BG

Joseph A. Devera  
2013



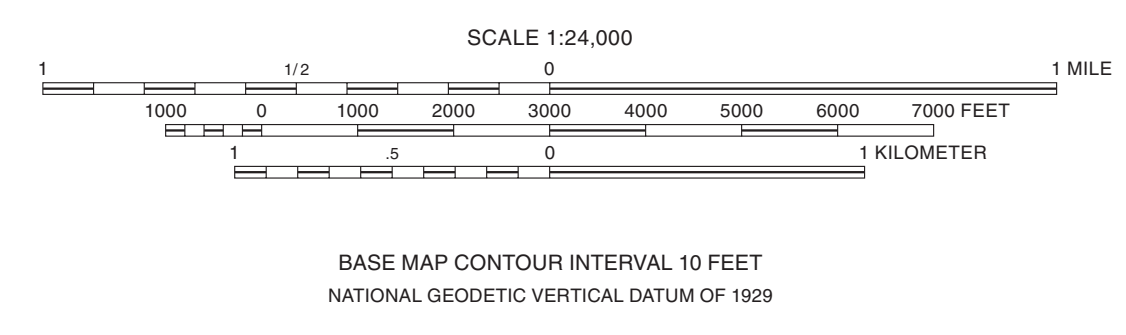
EXPLANATION				
Quaternary	Qal	Alluvium	Holocene	
Quaternary	Unconformity	Qtu	Terrace deposits undifferentiated	Pleistocene
	Unconformity	QTm	Mounds Gravel	
Tertiary	Unconformity	Qtm	Mounds Gravel	Pliocene
Cretaceous	Unconformity	Km	McNairy Formation	Upper Cretaceous
	Unconformity	Mkc	Kinkaid Limestone, Degonia Sandstone, and Clore Formation	
Mississippian	Mp	Paletine Formation	Chesterian	
	Mm	Menard Limestone		
	Mis	Tar Springs Formation		
	Mgd	Glen Dean Limestone		
	Mh	Hardinsburg Formation		
	Mg	Golconda Formation		
	Mcy	Cypress Formation		
	Mr	Ridenhower Formation		
	Msb	Sample Sandstone and Bethel Sandstone		
	Msg	Ste. Genevieve Limestone		

Note: Outcrops of each unit are shown with a darker shade of color.

Symbols	
	Strike and dip of bedding; number indicates degree of dip
	Horizontal bedding
	Vertical joint
	Gravel pit
	Mineral prospect pit
Drill Holes	
	Numbers indicate total depth of boring in feet
	Water well
Line Symbols	
	Dashed where inferred, dotted where concealed
	Contact
	Fault bar and ball on downthrown side
	Anticline
	Syncline
	Line of cross section

Note: Well and boring records are on file at the ISGS Geological Records Unit and are available online from the ISGS website.

Base map compiled by Illinois State Geological Survey from digital data (2010 US Topo) provided by the United States Geological Survey.  
North American Datum of 1983 (NAD 83)  
Projection: Transverse Mercator  
10,000-foot ticks: Illinois State Plane Coordinate system, east zone (Transverse Mercator)  
1,000-meter ticks: Universal Transverse Mercator grid system, zone 16



Geology based on field work by Joseph A. Devera, 1996-1997.  
Digital cartography by Jane E. Johnshoy Domier, Trisha S. Rentschler, and Coy E. Potts, Illinois State Geological Survey.  
The Illinois State Geological Survey and the University of Illinois make no guarantee, expressed or implied, regarding the correctness of the interpretations presented in this document and accept no liability for the consequences of decisions made by others on the basis of the information presented here. The geologic interpretations are based on data that may vary with respect to the accuracy of geographic location, the type and quantity of data available at each location, and the scientific and technical qualifications of the data sources. Maps or cross sections in this document are not meant to be enlarged.

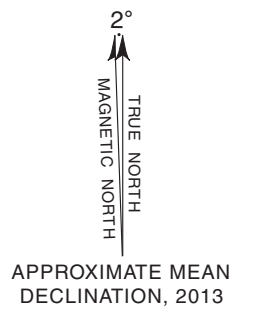
**Recommended citation:**  
Devera, J.A., 2013. Bedrock Geology of Smithland Quadrangle, Pope and Massac Counties, Illinois: Illinois State Geological Survey, Illinois Geologic Quadrangle Map, IGQ Smithland-BG, 2 sheets, 1:24,000.

© 2013 University of Illinois Board of Trustees. All rights reserved.  
For permission information, contact the Illinois State Geological Survey.



ADJOINING QUADRANGLES		
1	2	3
4	5	6
7	8	

1 Brownfield  
2 Golconda  
3 Lola KY  
4 Paducah NE  
5 Burna KY  
6 Paducah East  
7 Little Cypress  
8 Calvert City KY



ROAD CLASSIFICATION	
Interstate Route	
U.S. Route	
State Route	
Local road	

