

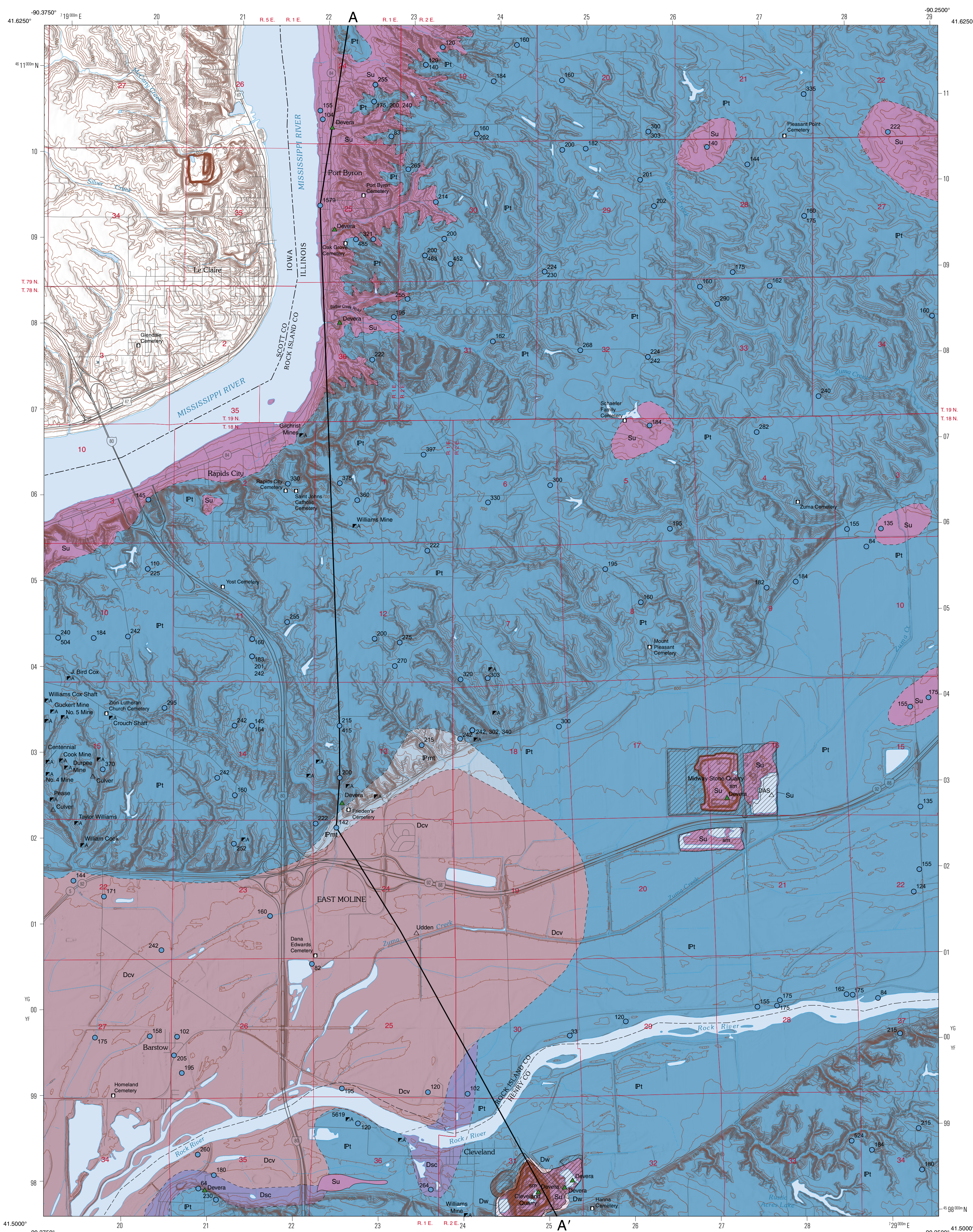
BEDROCK GEOLOGY OF PORT BYRON QUADRANGLE

ROCK ISLAND AND HENRY COUNTIES, ILLINOIS

Joseph A. Devera and Joseph M. Krienert
2022

STATEMAP Port Byron-BG

Prairie Research Institute
ILLINOIS STATE GEOLOGICAL SURVEY



SYSTEM	EXPLANATION	SERIES	
Pennsylvanian	unconformity	Desmoinesian	
	Pt		Tradewater Formation
	Pmt		Muscataine formation
Devonian	unconformity	Morrowan	
	Dsc		Sweetland Creek Shale
	unconformity	Middle Devonian	
	Dcv		Cedar Valley Limestone
Silurian	unconformity	Upper Devonian	
	Dw		Wapsipinicon Limestone
Silurian	unconformity	Upper Silurian	
	Su		Silurian undifferentiated

- Drill Holes**
from which subsurface data were obtained
- Water well
 - Numeric label indicates total depth of boring in feet.
- Point Symbols**
- Shaft mine, abandoned
 - Outcrop from ISGS Field Notes
 - Outcrop (recent)
- Line Symbols**
- Contact, accurate
 - Contact, inferred
 - 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 Web site. Outcrop labels indicate last name of observer.

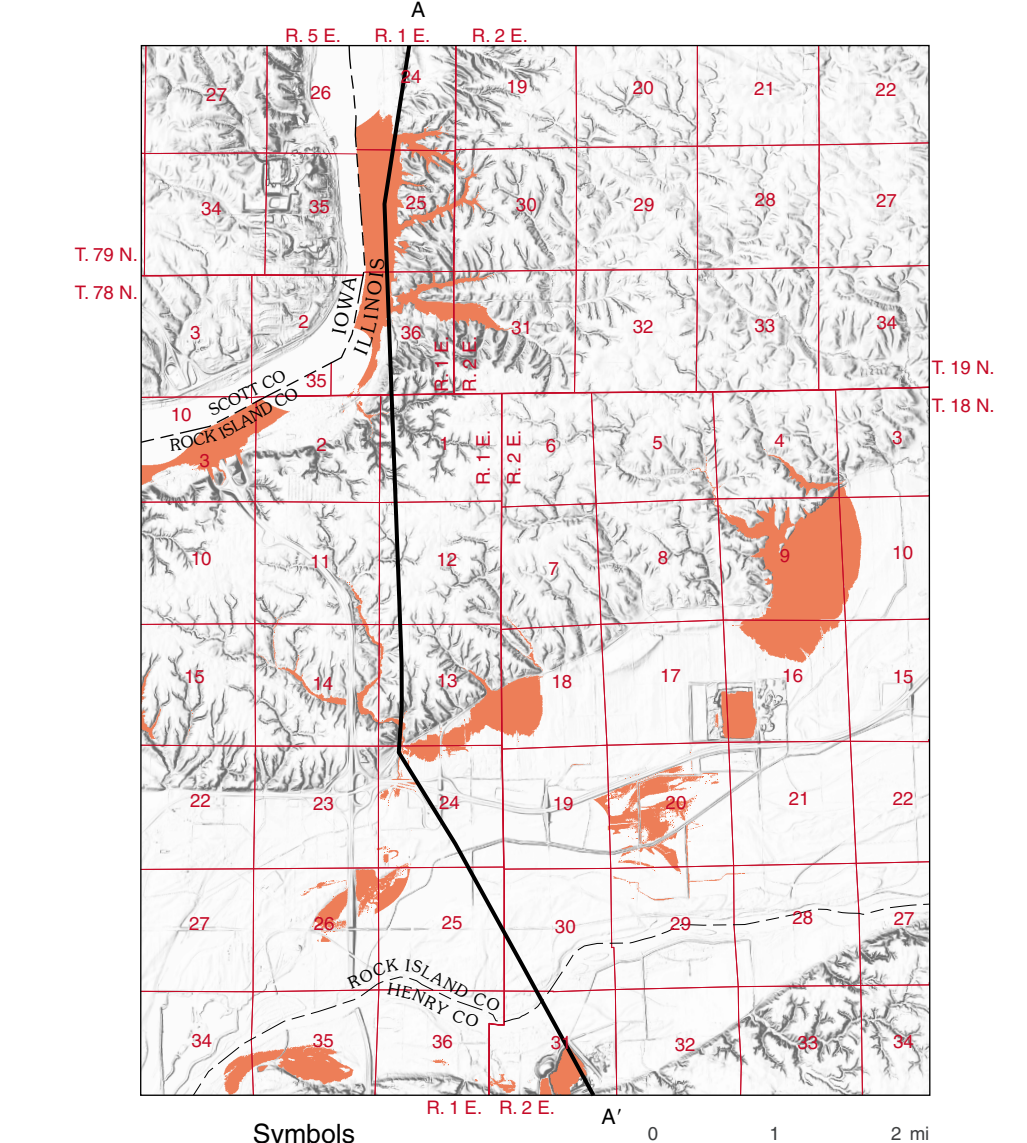


Figure 1 Showing forecasted bedrock outcrops within 5 feet of the land surface. Silurian rock dominates around Port Byron, IL and along the Mississippi River. Pennsylvanian outcrops are common in southeast flowing ravines. Scale is 1:100,000.

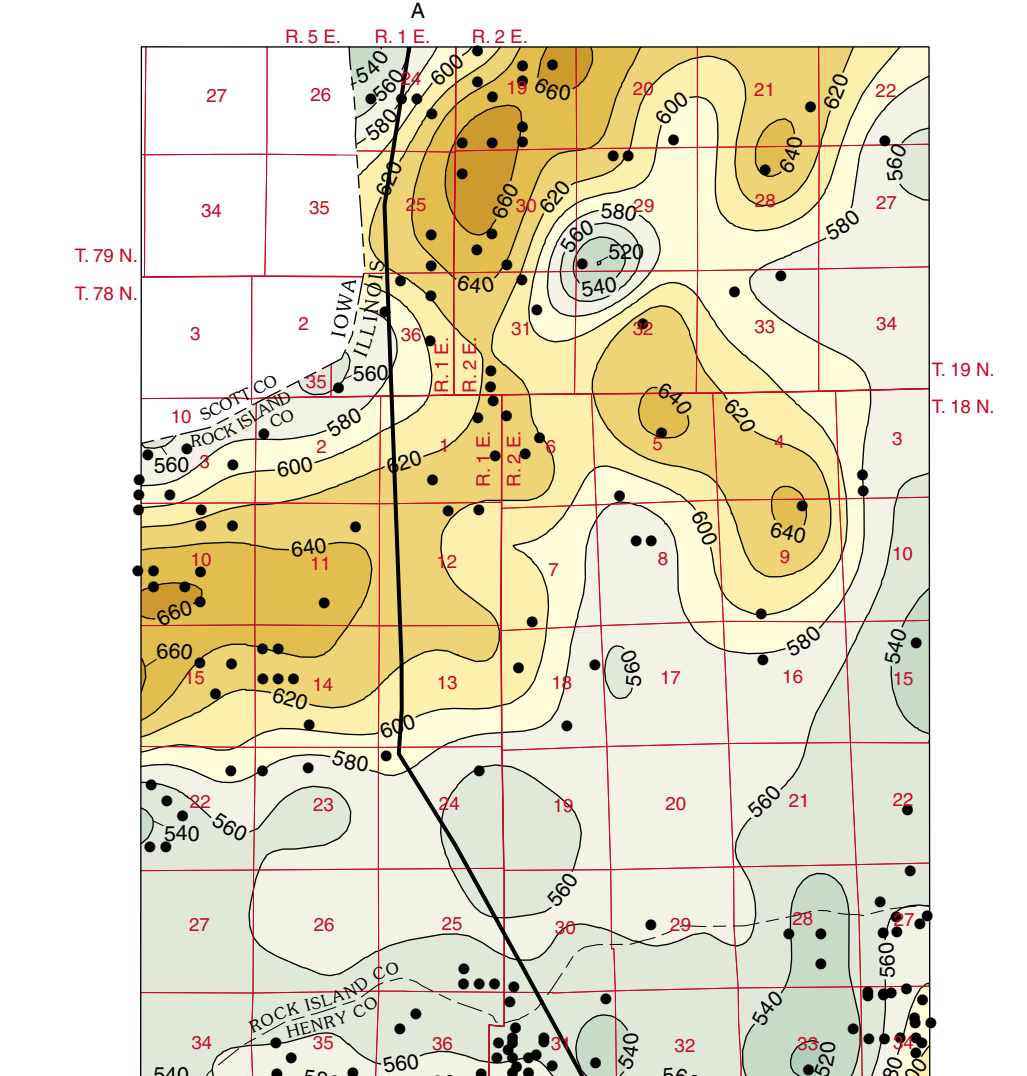
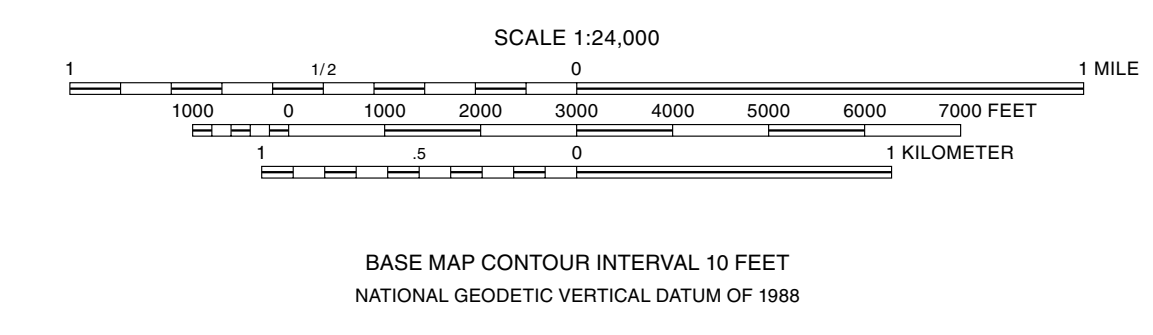


Figure 2 Bedrock topography of the Port Byron Quadrangle. Scale is 1:100,000.

Base map compiled by Illinois State Geological Survey from digital data (2021 US Topo) provided by the United States Geological Survey. Shaded relief and contours derived from lidar data from the Rock Island and Henry County collections (2020) available through ILHMP and data provided by the Iowa LIDAR Consortium (2007 and 2010).

North American Datum of 1983 (NAD 83)
Projection: Transverse Mercator
1,000-meter ticks: Universal Transverse Mercator grid system, zone 15

Recommended citation:
Devera, J.A., and J.M. Krienert, 2022. Bedrock geology of Port Byron Quadrangle, Rock Island and Henry Counties, Illinois: Illinois State Geological Survey, USGS-STATEMAP contract report, STATEMAP Port Byron-BG, 2 sheets, 1:24,000.



© 2022 University of Illinois Board of Trustees. All rights reserved.
For permission information contact the Illinois State Geological Survey.

Geology based on field work by J.A. Devera, J.M. Krienert, C. Swiger, F. Burkett, K.R. Wilson, and J.R. Breiden, 2021-2022.

Digital cartography by Jennifer E. Carrell, Emily G. Bunse, and Ethan Lehmann, Illinois State Geological Survey.

This geologic map was funded in part by the USGS National Cooperative Geologic Mapping Program under StateMap award number G21AC10861, 2021. The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government.

This map has not undergone the formal Illinois Geologic Quadrangle map review process. Whether or when this map will be formally reviewed and published depends on the resources and priorities of the ISGS.

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.

ILLINOIS
Illinois State Geological Survey
Prairie Research Institute
Illinois State Geological Survey
615 East Peabody Drive
Champaign, Illinois 61820-6918
(217) 244-2414
<http://www.isgs.illinois.edu>

