

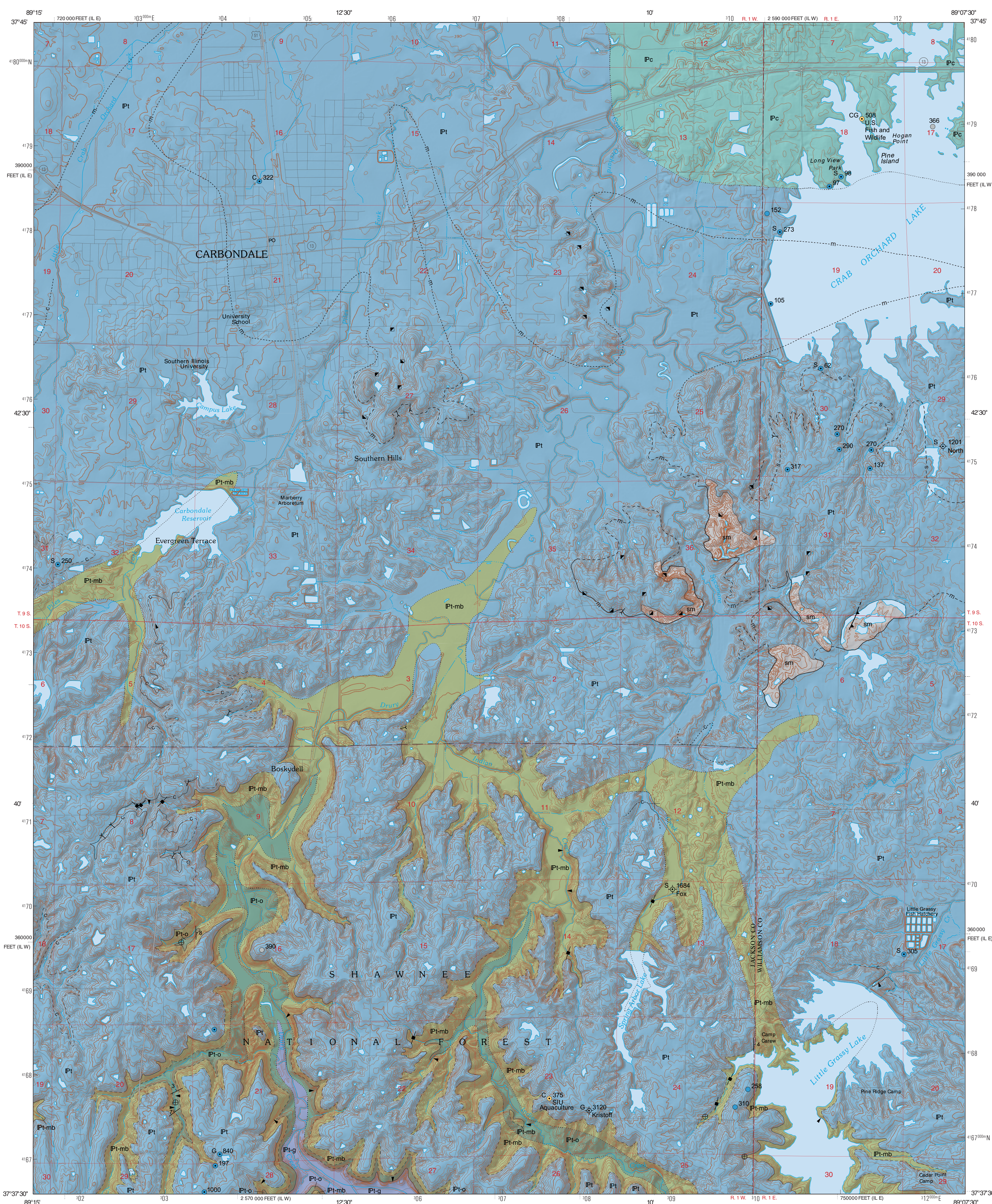
BEDROCK GEOLOGY OF CARBONDALE QUADRANGLE

JACKSON AND WILLIAMSON COUNTIES, ILLINOIS

Prairie Research Institute
ILLINOIS STATE GEOLOGICAL SURVEY

Illinois Geologic Quadrangle Map
IGQ Carbondale-BG

W. John Nelson
2013



EXPLANATION

Holocene	sm	Surface mine	
Pennsylvanian	Pc	Carbondale Formation	Desmoinesian
	Tr	Tradewater Formation	
	St	Stonfort Limestone Member	
	M	Murphyboro Coal Member	
Atokan	Pt	Murray Bluff Sandstone Member	Atokan
	Pt-o	olive shale member	
	Pt-g	Grindstaff Sandstone Member	

Symbols

- 40 Strike and dip of bedding; number indicates degree of dip
- ⊕ Horizontal bedding
- ⊥ Vertical joints
- ⌘ Shaft mine
- ⌘ Slope mine
- ⌘ Drift mine
- ⌘ Outcrop of special note, shown where contact or map unit was well exposed at time of mapping

Drill Holes

- from which subsurface data were obtained
- Stratigraphic test boring, continuously cored
 - Water-well boring
 - Coal-test boring
 - ◇ Dry oil-test hole
- Labels indicate samples (s), geophysical log (g), or core (c).
Numeric labels indicate total depth of boring in feet.
Label name indicates well name.
Dot indicates location accurate within 100 feet.

Line Symbols

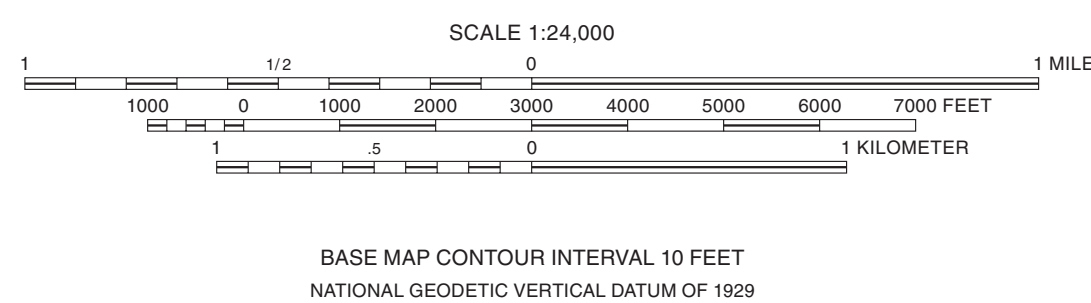
- dashed where inferred, dotted where concealed
- Contact
- ⌘ Thrust or reverse fault, sawteeth on upthrown side

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 (Raster Feature Separates) provided by the United States Geological Survey, Topography compiled 1963. Planimetry derived from imagery taken 1993. PLSS and survey control current as of 1996.

North American Datum of 1927 (NAD 27)
Projection: Transverse Mercator
10,000-foot ticks: Illinois State Plane Coordinate system, west zone (Transverse Mercator)
1,000-meter ticks: Universal Transverse Mercator grid system, zone 16

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Geology based on field work by W. John Nelson, 2000-2001.

Digital cartography by Jane E. Johnshoy Dornier and Trisha S. Rentschler, Illinois State Geological Survey.

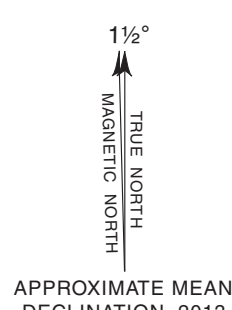
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ADJOINING QUADRANGLES
1 Murphyboro
2 De Solo
3 Hermin
4 Pomona
5 Crab Orchard Lake
6 Cobden
7 Makanda
8 Lick Creek



ROAD CLASSIFICATION

- U.S. Route
- State Route
- Local road

