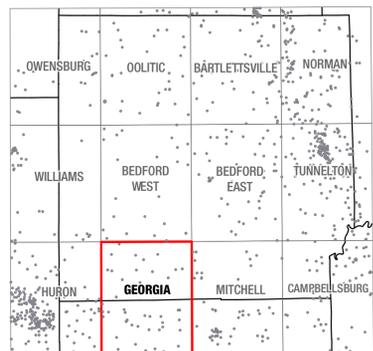


DESCRIPTION OF MAP UNITS

- Raccoon Creek Group (Pennsylvanian, Morrowan)**
 - Pm** Mansfield — Cross-bedded to massive, poorly sorted, fine- to medium-grained sandstone with minor wavy- to ripple-bedded and interbedded sandstone; black shale with fine-grained sandstone laminations and abundant plant debris along partings; medium-gray siltstone; medium gray mudstone; and coal.
- Msp** Stephensport Group undifferentiated (Mississippian, Chesterian) — The Stephensport Group consists of five named formations, but only the lower three are present in the map area. In descending order, the Hane Limestone (crinoidal grainstone to packstone and shale), Big Clifty Formation (dominantly horizontally bedded sandstone with possible tidal rhythmites, mudstone, and shale), and the Beech Creek Limestone (crinoidal grainstone to packstone).
- Mwb** West Baden Group undifferentiated (Mississippian, Chesterian) — The West Baden Group consists of five named formations. In descending order, the Elveren Formation (variably horizontally to cross-bedded sandstone, black shale, siltstone, and mudstone), Reelsville Limestone (discontinuous brecciated and oolitic limestone), Sample Formation (wavy- to cross-bedded or ripple-bedded or massive sandstone and variable combination of shale and siltstone), Beaver Bend Limestone (crinoidal grainstone to packstone with occasional bryozoans and brachiopods and locally oolitic), and Bethel Formation (dark-gray to black pyritiferous shale or interlaminated siltstone, and wavy or ripple-bedded to cross-bedded sandstone forming about one-third to one-quarter of the unit; massive and occasionally rooted or bioturbated mudstone and thin coal may be locally present).
- Blue River Group (Mississippian, Chesterian and Valmeieran)**
 - Mp** Paoli Limestone — Skeletal packstone to grainstone with crinoids and brachiopods and variably oolitic in the upper part, scattered one or two thin limestone clast breccia beds, minor lime mudstone, skeletal wackestone, siltstone, and quartz sandstone.
 - Msg** Ste. Genevieve Limestone — The Ste. Genevieve Limestone is informally divided into four units. In descending order, discontinuous limestone-clast breccia bed; massive to cross-bedded oolitic to skeletal grainstone with variable beds of skeletal packstone, wackestone, and lime mudstone; horizontally to cross-bedded grainstone with abundant rounded quartz grains; and massive skeletal packstone to grainstone with brachiopods, crinoids, and occasional gastropod wackestone, lime mudstone, and argillaceous limestone locally abundant.
 - Msl** St. Louis Limestone (Mississippian, Middle) — The St. Louis Limestone is informally divided up into two units. In descending order, horizontally bedded skeletal packstone to wackestone with occasional dolomite and lime-mudstone beds and scattered chert nodules occurring in the lower half with thin bed containing silicified rugose corals, *Acrocyathus proliferus*, at base; lower unit of variable lithologies including horizontally to massive-bedded skeletal packstone, bioturbated argillaceous limestone, dolomitic packstone to mudstone, and occasional thin breccia beds and mudstone with chert nodules at some localities.
- Contact** — Identity and existence certain, location concealed.



Index map of Indiana showing the location of Lawrence County and the Georgia 7.5-minute quadrangle.



Index map of 7.5-minute quadrangles covering Lawrence County and the distribution of data collected during the fifth year of the Lawrence County bedrock mapping project.

ACKNOWLEDGMENTS

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Digital cartography by Matthew R. Johnson

Basemap features digitized from the U.S. Geological Survey topographic quadrangle maps, scale 1:24,000 with updates from 2011 aerial photography and Indiana LIDAR. Contours and shading based on Indiana LIDAR data from 2011, compiled by M. R. Johnson. Projection: Universal Transverse Mercator (UTM), Zone 16N. Horizontal Datum: North American Datum of 1983 (NAD83).

Preliminary Bedrock Geologic Map of the Georgia 7.5-Minute Quadrangle, Indiana

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