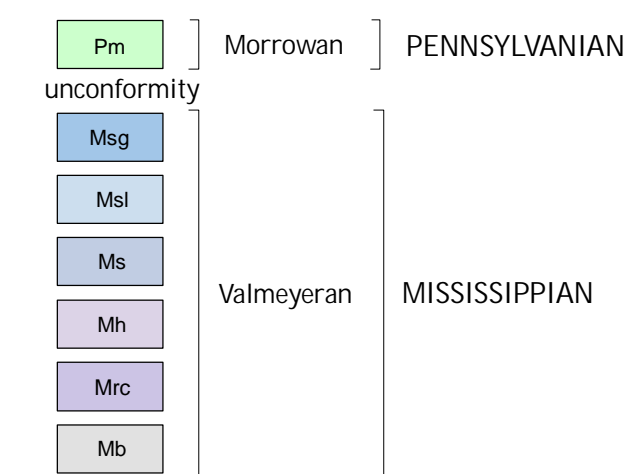
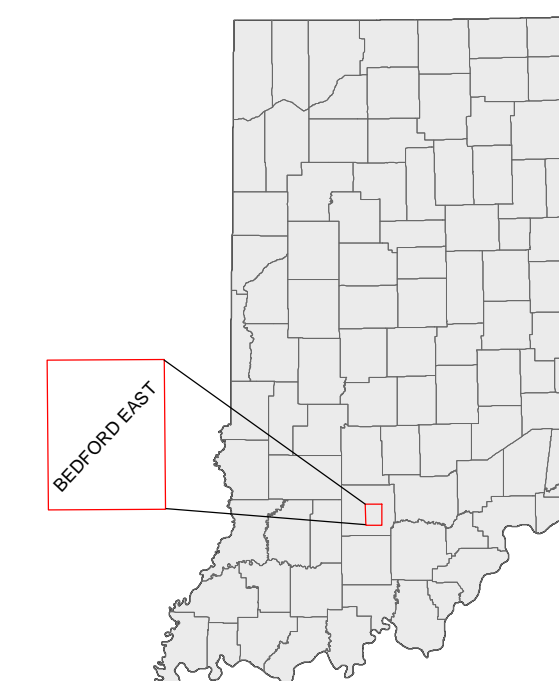


CORRELATION OF MAP UNITS

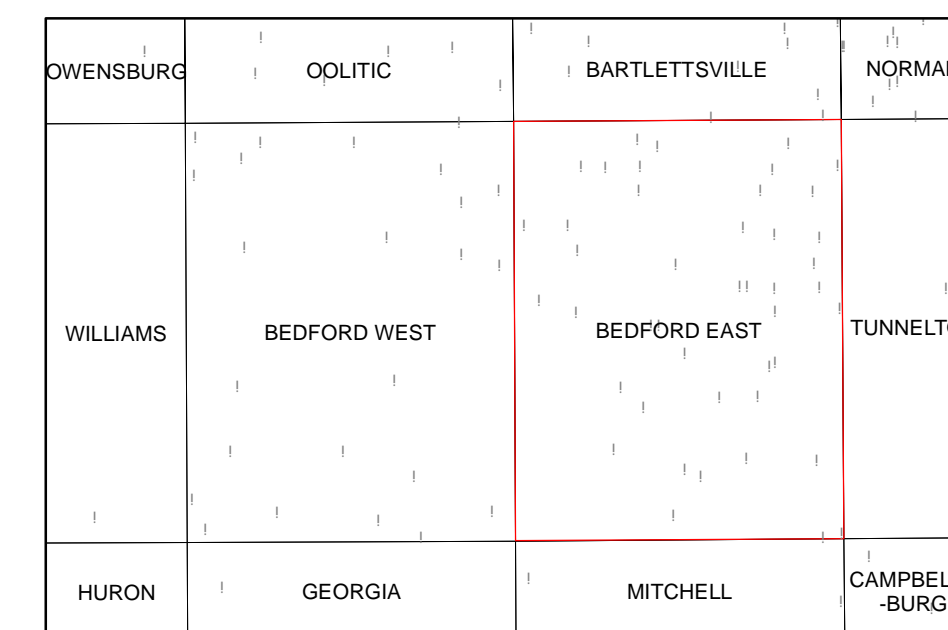


DESCRIPTION OF MAP UNITS

- Raccoon Creek Group (Pennsylvanian, Morrowan)**
 - Pm** Mansfield Formation— Horizontal-bedded sandy quartz-pebble conglomerate and pebbly sandstone. Iron oxide-cemented throughout.
- Blue River Group (Mississippian, Chesterian and Valmeyeran)**
 - Msg** Ste. Genevieve Limestone— 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; horizontal- 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— Informally divided into two units: in descending order, horizontal-bedded skeletal packstone to wackestone with occasional dolostone and lime-mudstone beds and scattered chert nodules in the lower half with thin bed containing silicified rugose corals, *Lithostrotion proliferum*, at base. Lower unit of variable lithologies including horizontal- to massive-bedded skeletal packstone, bioturbated argillaceous limestone, dolomitic packstone to mudstone, and occasional breccia beds and mudstones with chert nodules at some localities.
- Sanders Group (Mississippian, Valmeyeran)**
 - Ms** Salem Limestone— Cross-bedded to horizontal- and massive-bedded fine-grained skeletal grainstone with horizontal-bedded skeletal packstone and argillaceous limestone, and occasional dolostone beds.
 - Mh** Harrodsburg Limestone— Horizontal- to cross-bedded skeletal grainstone with variable amounts of skeletal packstone and argillaceous limestone more prominent towards the lower part and fenestrate bryozoans dominant in the upper part. Siliceous geodes and beds are occasionally present in lower part. Some basal beds contain glauconite.
 - Mrc** Ramp Creek Formation— Interbedded lithologies of horizontal- to massive-bedded skeletal grainstone to occasional packstone with glauconite and horizontal-bedded bioturbated siltstone. Siliceous geodes are common.
 - Mb** Borden Group undifferentiated (Mississippian, Valmeyeran)— Siltstone, fine-grained sandstone, and sandy shale with minor amounts of impure crinoidal limestone. Fossils include burrows and locally abundant disarticulated echinoderms and brachiopods. Siliceous geodes are rare.
- Contact**— Approximately located.



Index map of Indiana showing county boundaries and the location of the Bedford East 7.5-minute Quadrangle.

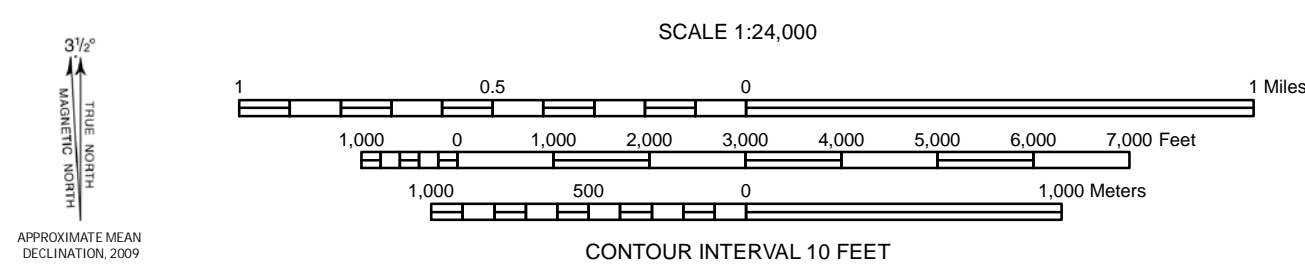


Index map showing 7.5-minute quadrangle boundaries and the distribution of data points in and around the Bedford East Quadrangle.

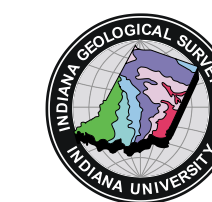
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Basemap features digitized from U.S. Geological Survey topographic quadrangle maps; scale 1:24,000. Contours based on digital elevation model (DEM) compiled by C. M. Estell from USGS 10-m level-2 DEMs. Projection: Universal Transverse Mercator (UTM), Zone 18N. Horizontal Datum: North American Datum of 1983 (NAD83).



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

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2009