

EXPLANATION

This map was created, using computer gridding and contouring software, by computing the difference between a 60-meter topographic digital elevation model (DEM) and the bedrock surface DEM that underlies Hasenmueller and James's (2003) bedrock surface map. The topographic DEM used to compute the thickness of unconsolidated deposits was created by combining available Level 2 U.S. Geological Survey (USGS) 30-meter 1:24,000-scale DEMs. These topographic DEMs were created by converting USGS 1:24,000-scale digital line graph (DLG) hypsography and hydrology to DEMs using the topogrid utility in ArcINFO (Environmental Systems Research Institute, Inc.), where 1:24,000-scale, Level 2 DEMs were not available. The contours on this map are computer-generated contours of the resultant unconsolidated sediments thickness grid.

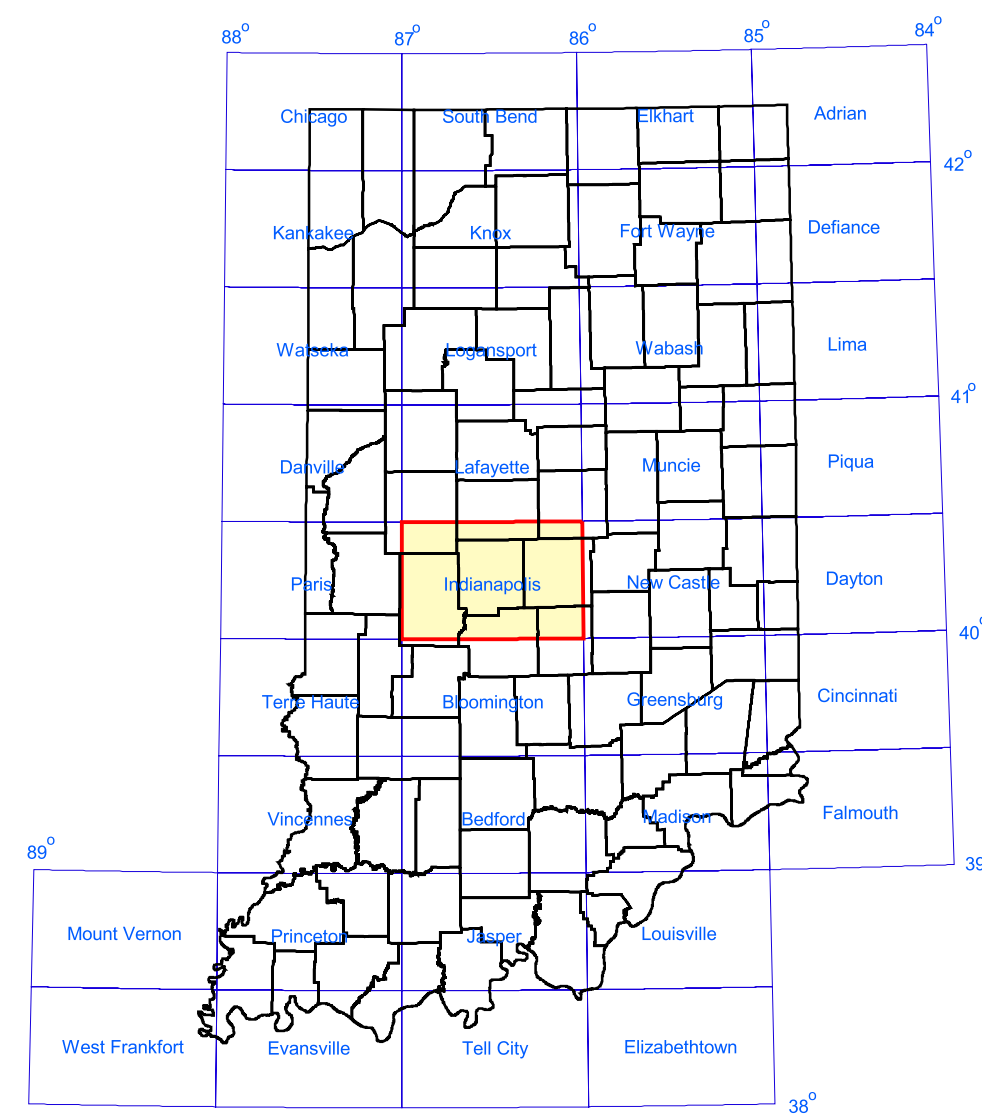
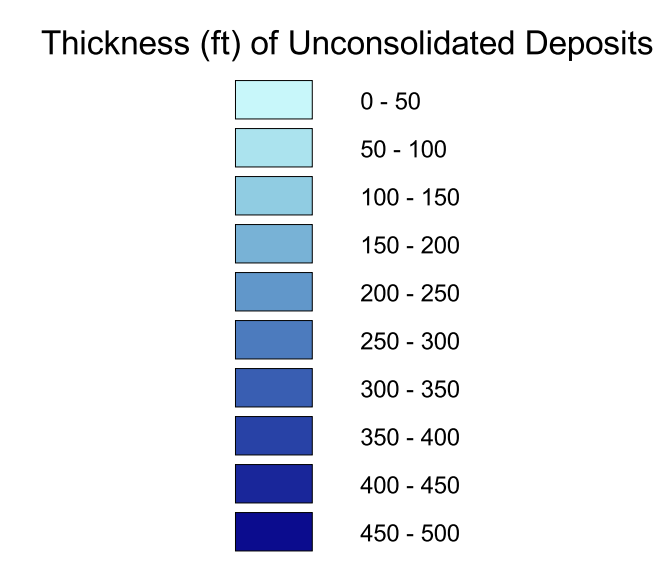
This map is the result of a cooperative mapping agreement between the USGS and the Indiana Geological Survey. The mapping was supported with USGS National Mapping Program STATEMAP funds and matching funds from the Indiana Geological Survey.

REFERENCES CITED

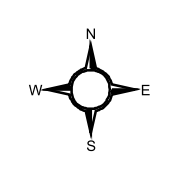
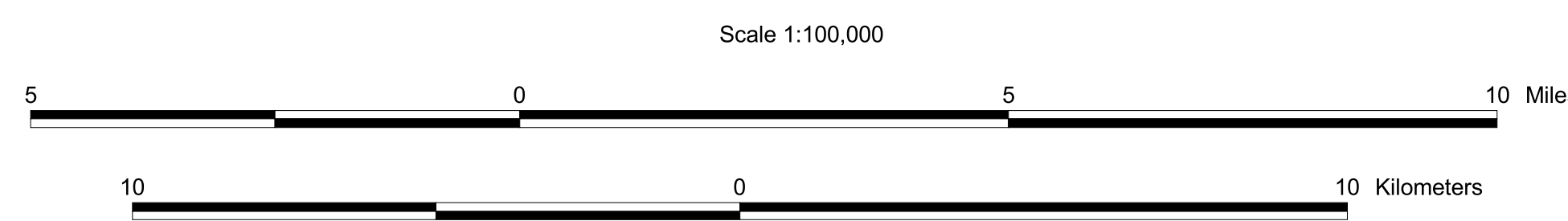
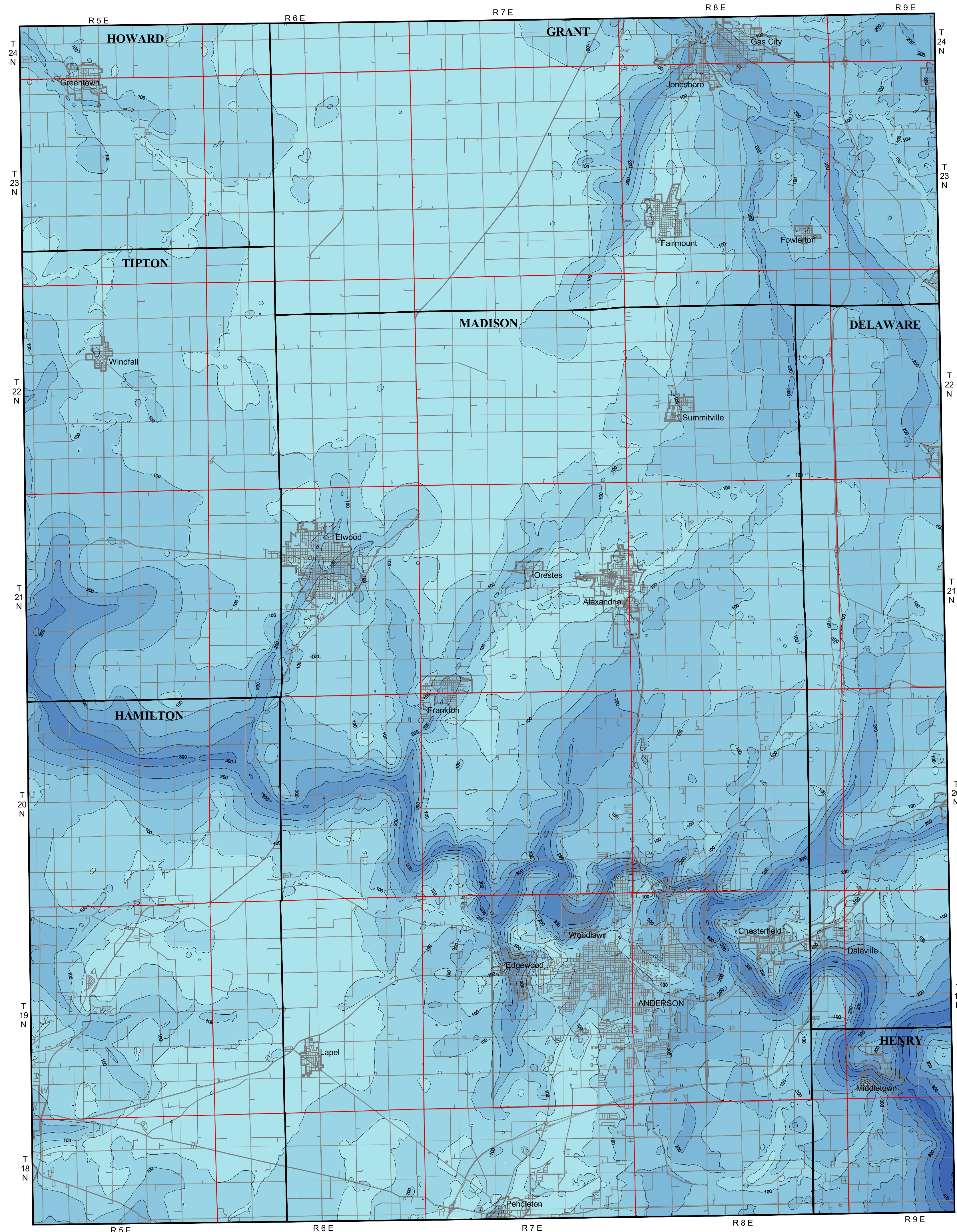
Hasenmueller, W. A., and James, C. L., 2003, Map showing elevation of the bedrock surface in the west half of the Muncie 30 x 60 minute quadrangle, central Indiana: Indiana Geological Survey Open-File Study 03-05.

EXPLANATION OF MAP SYMBOLS

—100— Unconsolidated deposits thickness contour; approximately located; drawn on the computed difference between a 60-meter DEM and the bedrock-surface DEM using computer gridding and contouring software; contour interval is 50 feet (about 16 meters)



Index map of Indiana counties showing the location of the study area; red line indicates the extent of the west half of the Muncie 30 x 60 minute quadrangle.



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Map Showing Thickness of the Unconsolidated Deposits in the West Half of the Muncie 30 x 60 Minute Quadrangle, Central Indiana

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