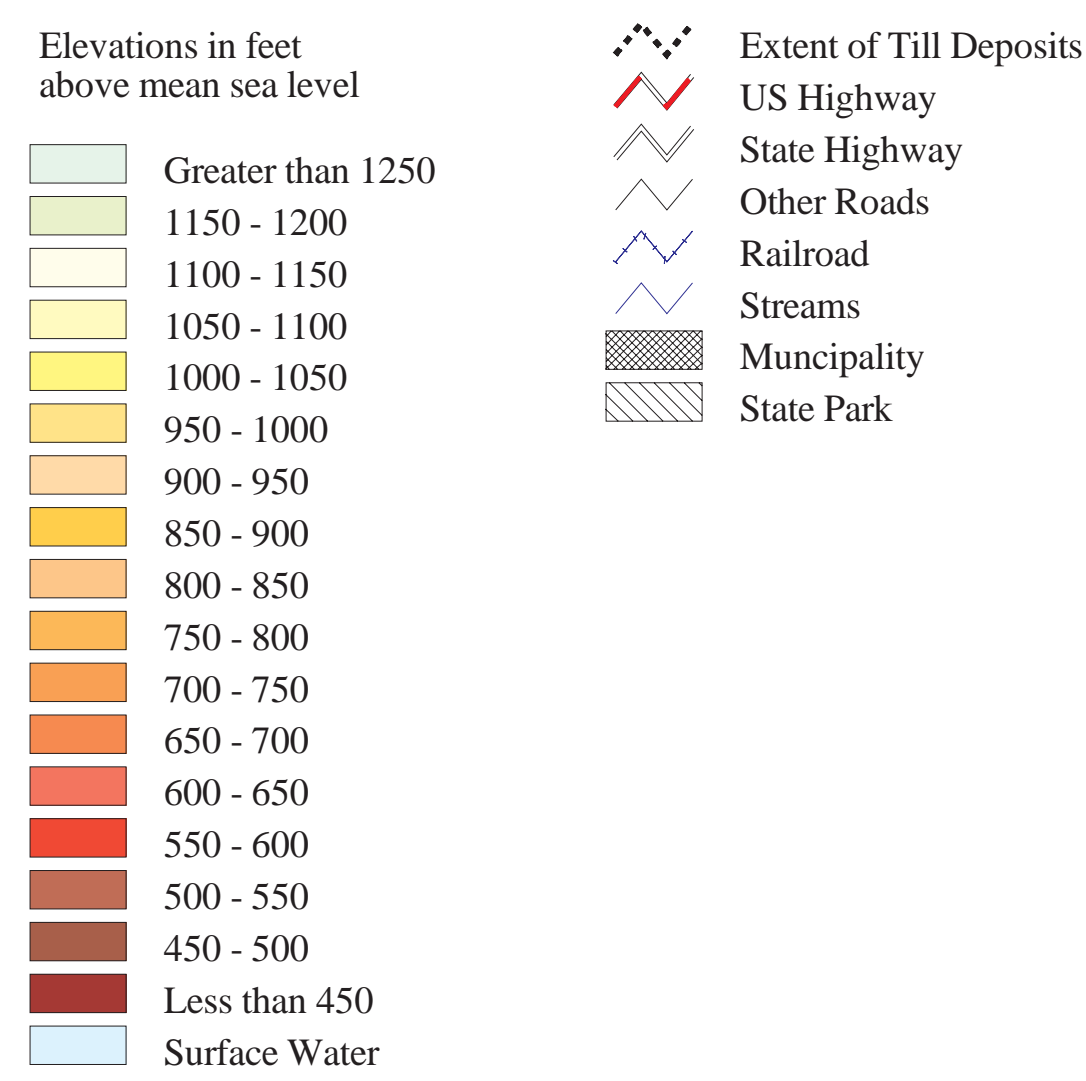
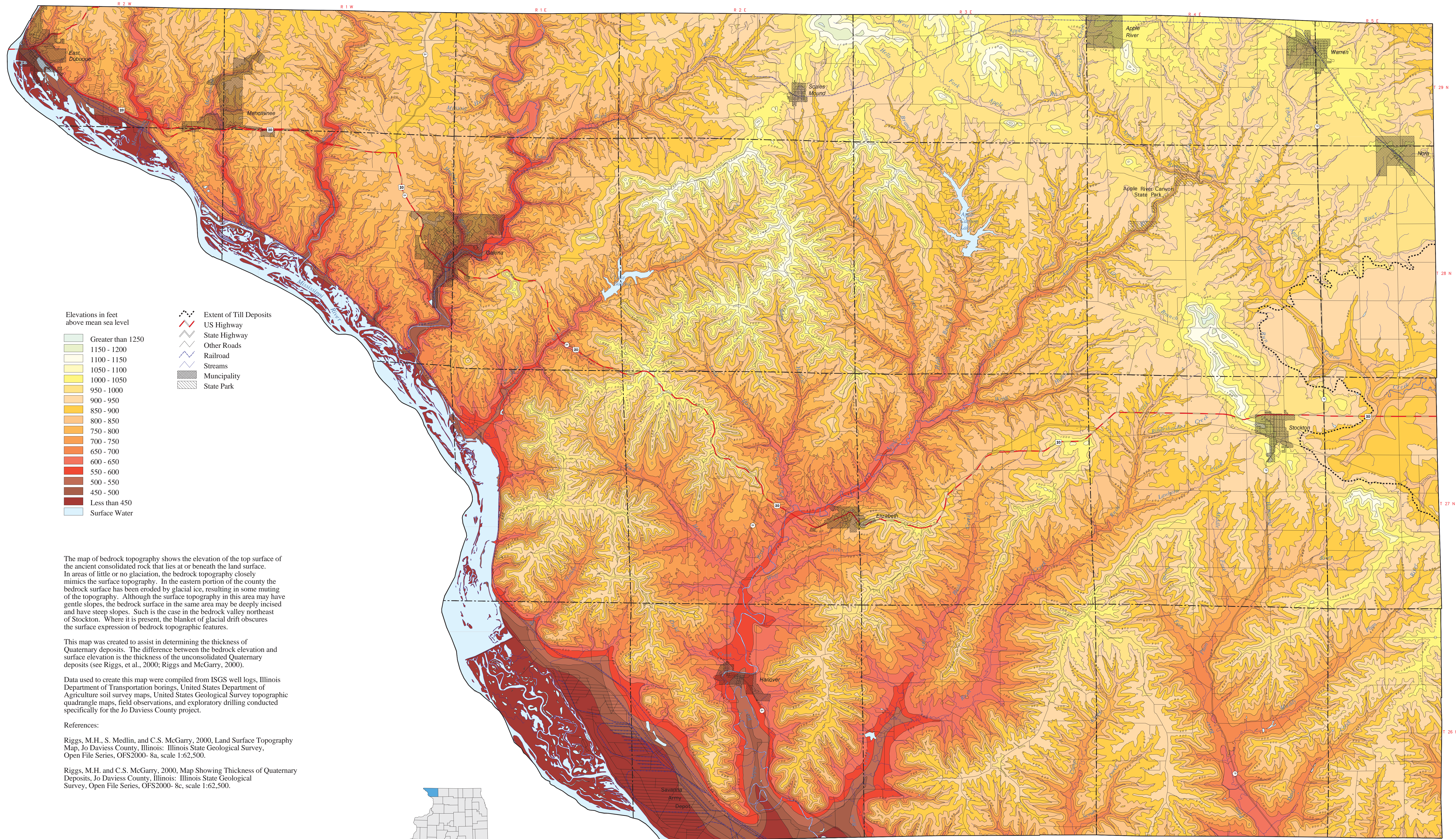


BEDROCK SURFACE TOPOGRAPHY MAP, JO DAVIESS COUNTY, ILLINOIS

Christopher S. McGarry and Matthew H. Riggs

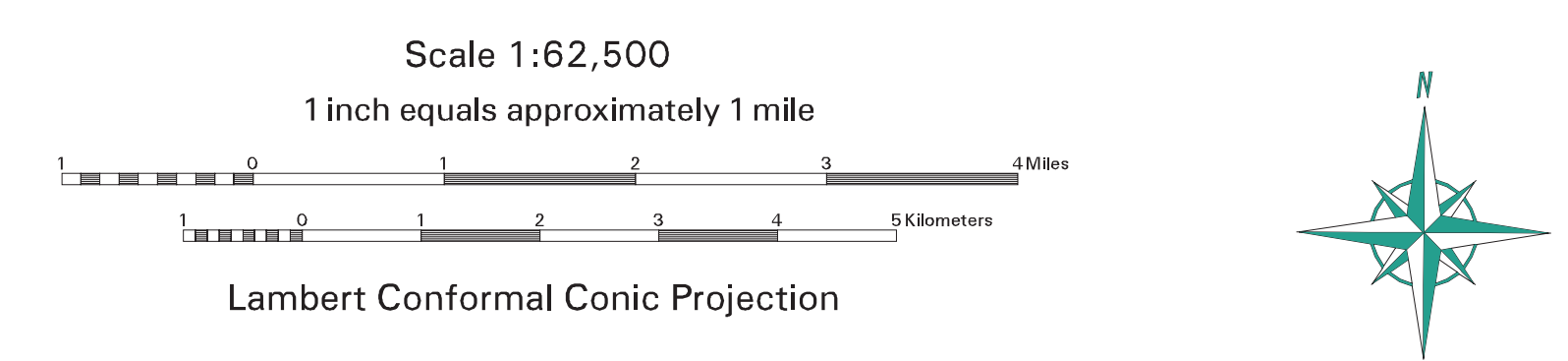
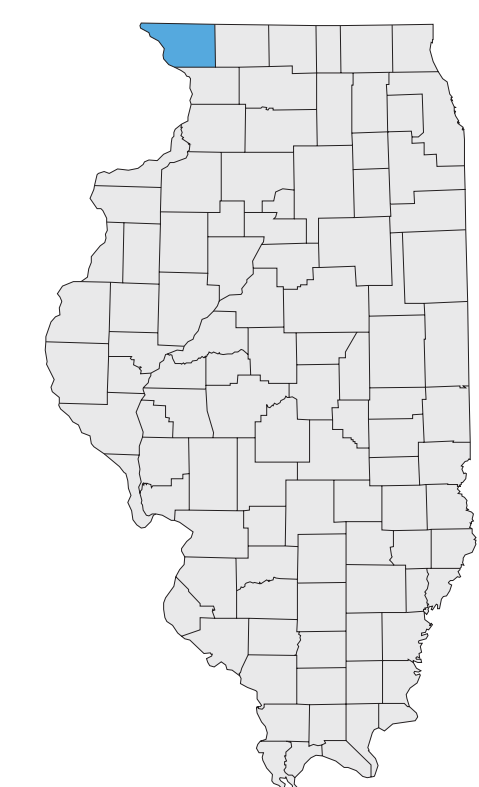


The map of bedrock topography shows the elevation of the top surface of the ancient consolidated rock that lies at or beneath the land surface. In areas of little or no glaciation, the bedrock topography closely mimics the surface topography. In the eastern portion of the county the bedrock surface has been eroded by glacial ice, resulting in some muting of the topography. Although the surface topography in this area may have gentle slopes, the bedrock surface in the same area may be deeply incised and have steep slopes. Such is the case in the bedrock valley northeast of Stockton. Where it is present, the blanket of glacial drift obscures the surface expression of bedrock topographic features.

This map was created to assist in determining the thickness of Quaternary deposits. The difference between the bedrock elevation and surface elevation is the thickness of the unconsolidated Quaternary deposits (see Riggs, et al., 2000; Riggs and McGarry, 2000).

Data used to create this map were compiled from ISGS well logs, Illinois Department of Transportation borings, United States Department of Agriculture soil survey maps, United States Geological Survey topographic quadrangle maps, field observations, and exploratory drilling conducted specifically for the Jo Daviess County project.

References:
 Riggs, M.H., S. Medlin, and C.S. McGarry, 2000. Land Surface Topography Map, Jo Daviess County, Illinois: Illinois State Geological Survey, Open File Series, OFS2000-8a, scale 1:62,500.
 Riggs, M.H. and C.S. McGarry, 2000. Map Showing Thickness of Quaternary Deposits, Jo Daviess County, Illinois: Illinois State Geological Survey, Open File Series, OFS2000-8c, scale 1:62,500.



This map was prepared by the Illinois State Geological Survey, in cooperation with the Illinois Department of Commerce and Community Affairs and the Jo Daviess County Board. It is part of a suite of maps created to assist local government in addressing geologic questions concerning capable sites for landfill development. Maps produced for this study are intended for regional land use planning purposes. More detailed mapping is needed for site-specific considerations. This map has been reviewed for scientific accuracy and edited to meet the quality standards of maps in the ISGS Map Series.