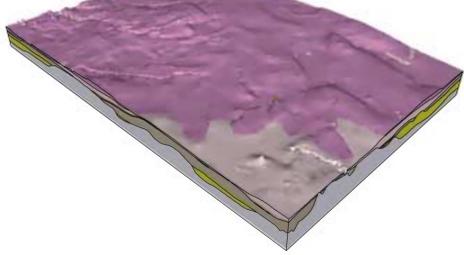
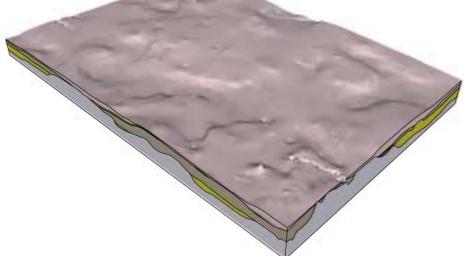


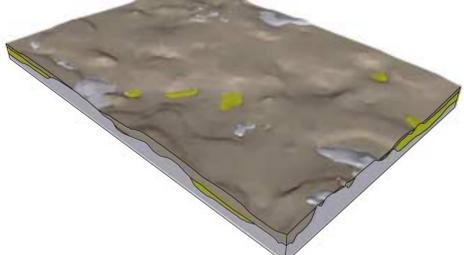
137—Topography of the land surface, which is equivalent to the upper surface of the Wisconsin and Mason Groups except where they are covered by the disconformable Cahokia Formation. In the southwestern part of the map area, beyond the limit of ice that deposited the Wisconsin Group stratigraphy, the Cahokia Formation and Pointe St. directly overlie the upper Glasford Formation.



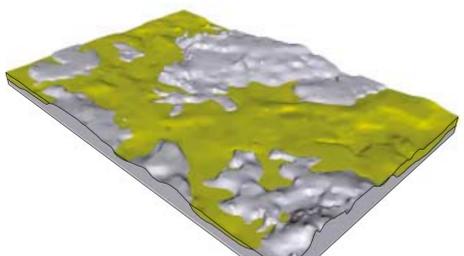
138—Topography of upper surface of the upper Glasford Formation. Southeast corner of the map area shows upper surface of the lower Glasford Formation. Strains, high-relief areas in the west and southwest are the result of erosion by modern streams (for example, from west to east in the southern half of the map area, the valleys of Salt Creek, the Sangamon River and Salt Fork). A small topographic high near the southwest corner of the map area is attributed to a topographic control point where lower Glasford Formation deposits were found at a noticeably higher elevation than in adjacent points. Although this data point does not agree with the regional map trend, it was retained for discussion on sheet 1 under "An internally consistent geologic model and set of maps," first paragraph.



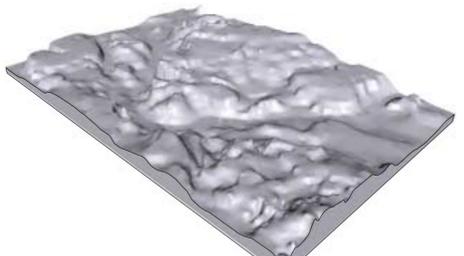
139—Topography of upper surface of the lower Glasford Formation. Strains, high-relief areas in the southwest and southeast are the result of erosion by modern streams (for example, from west to east in the southern half of the map area, the valleys of Salt Creek, the Sangamon River and Salt Fork). A small topographic high near the southwest corner of the map area is attributed to a topographic control point where lower Glasford Formation deposits were found at a noticeably higher elevation than in adjacent points. Although this data point does not agree with the regional map trend, it was retained for discussion on sheet 1 under "An internally consistent geologic model and set of maps," first paragraph.



139C—Topography of upper surface of the upper Banner Formation.



138B—Topography of upper surface of the middle Banner Formation deposits lying in the Mahomet Bedrock Valley. Includes lower Banner Formation deposits where in the valley level discussion on sheet 1 under "Quaternary stratigraphy," fifth paragraph.

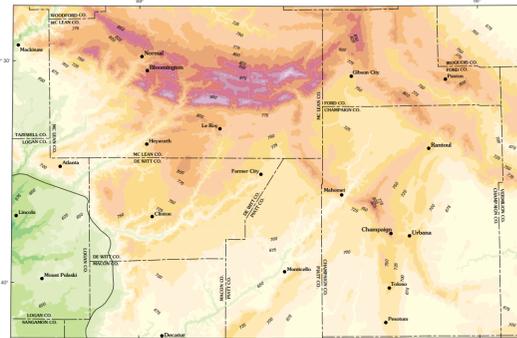


133A—Topography of the bedrock surface.

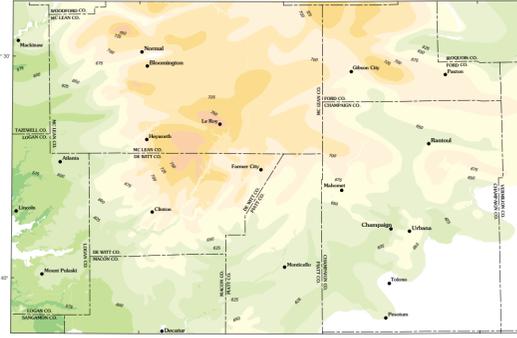
**EXPLANATION OF STRATIGRAPHIC UNITS**  
Figure 134-F and 162 and F

- Wisconsin and Mason Groups, including Cahokia Formation (Wisconsin and Mason Groups). Unit is assigned to Wisconsin Group.
- Upper Glasford Formation (Illinoian)
- Upper Glasford basal sand
- Lower Glasford Formation (Illinoian)
- Lower Glasford basal sand
- Upper Banner Formation (Episodic)
- Middle Banner Formation—mostly Mahomet Sand Member (Episodic)
- Bedrock (undifferentiated)

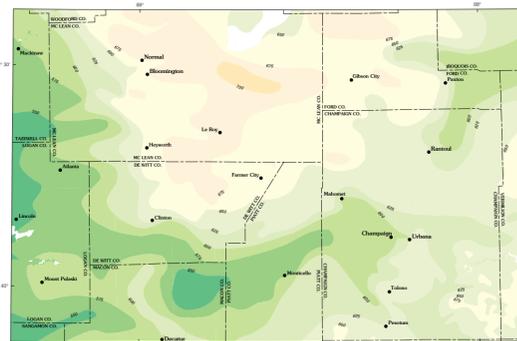
Figure 133A-F—Block diagrams of the map area showing surface topography of bedrock and of the Quaternary stratigraphic units. Vertical faces show variability in thickness of the Quaternary units. Viewpoint is from the southwest. To show topographic features, the images are vertically exaggerated approximately 30x.



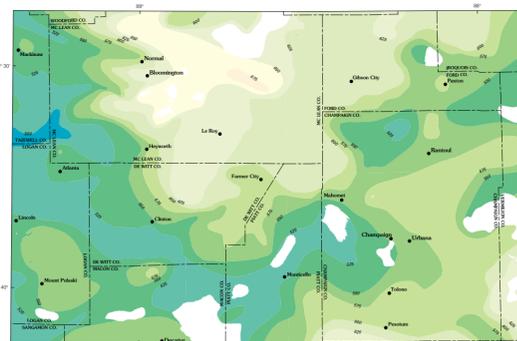
141F—Elevation of the land surface, which is equivalent to the top of the Wisconsin and Mason Groups except where they are covered by the disconformable Cahokia Formation. In the southwestern part of the map area beyond the limit of ice that deposited the Wisconsin Group stratigraphy, the Cahokia Formation and Pointe St. directly overlie the upper Glasford Formation.



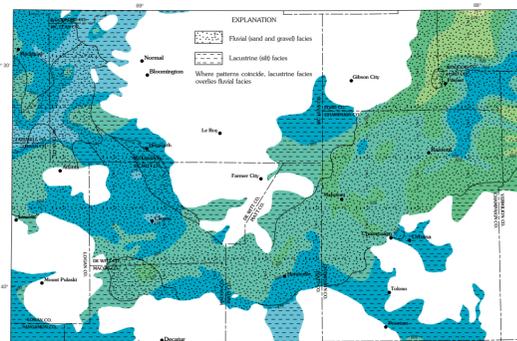
141E—Elevation of the top of the upper Glasford Formation.



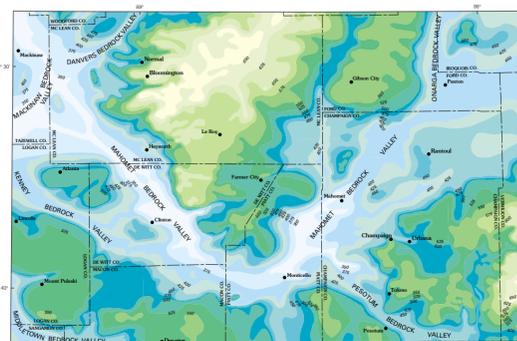
141D—Elevation of the top of the lower Glasford Formation.



141C—Elevation of the top of the upper Banner Formation.

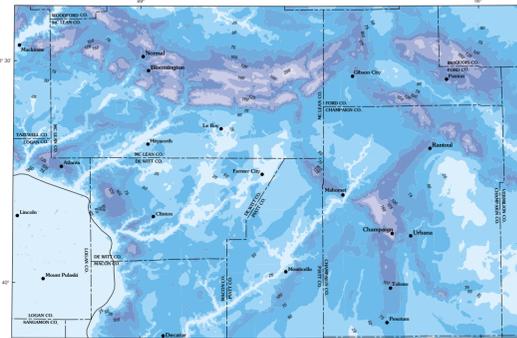


141B—Elevation of the top of the middle Banner Formation. Approximate distribution of fluvial (land and gravel) and lacustrine (fill) facies of the Mahomet Sand Member is shown by patterns. Sand and gravel commonly occur in the Mahomet Bedrock Valley's main channel. Silt and clay occur in tributaries because ice or sediment dams in the main channel blocked the tributaries, causing water to pond and fine sediment to be deposited.

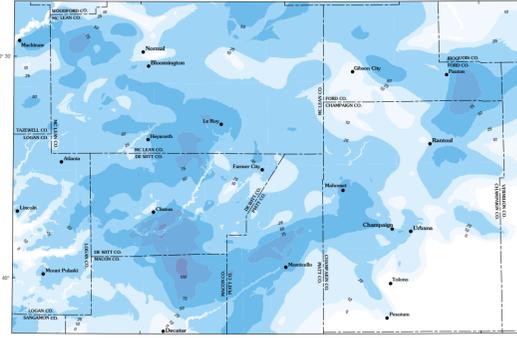


141A—Elevation of the bedrock surface. Bedrock units are undifferentiated. Selected bedrock valleys are identified.

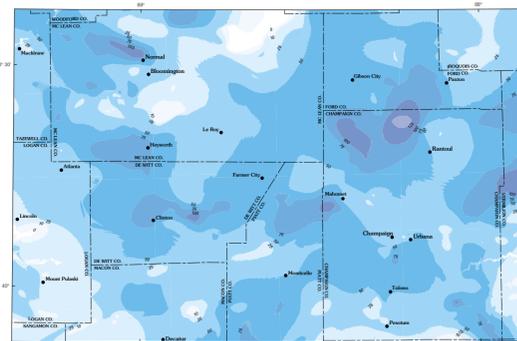
Figure 141A-F—Elevation, in feet above sea level, of the top or uppermost surface of bedrock and of five Quaternary stratigraphic units. Refer to discussion on sheet 1 under "Converting to raster format" for explanation of characteristic jagged boundaries of units on these raster maps.



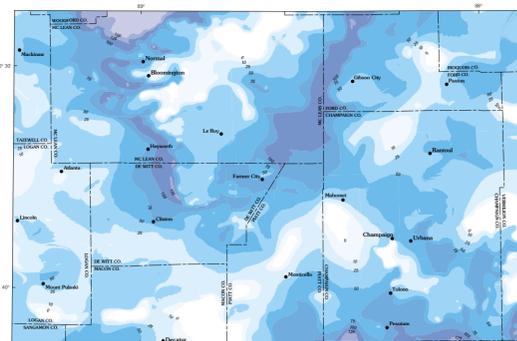
150—Thickness of the Wisconsin and Mason Groups, including this disconformable Cahokia Formation. The southwestern part of the map area lies beyond the limit of Wisconsin Group deposits, shown by black line. There, only this disconformable Cahokia Formation and Mason Group deposits occur, shown in outline, and, to permit them and the underlying units to be mapped efficiently by computer, a uniform thickness of 15 ft was assumed (see discussion on sheet 1 under "An internally consistent geologic model and set of maps," fourth paragraph). Narrow, sinuous areas of this sediment are the result of incision by modern streams.



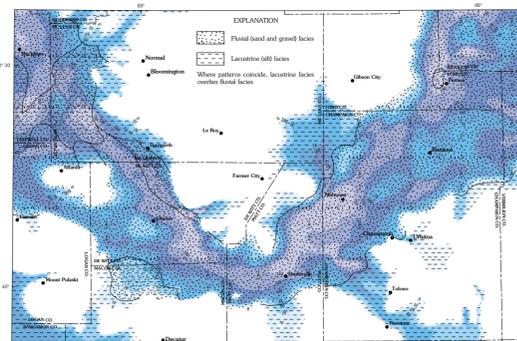
160—Thickness of top of basal sand, upper Glasford Formation.



160E—Thickness of top of basal sand, lower Glasford Formation.

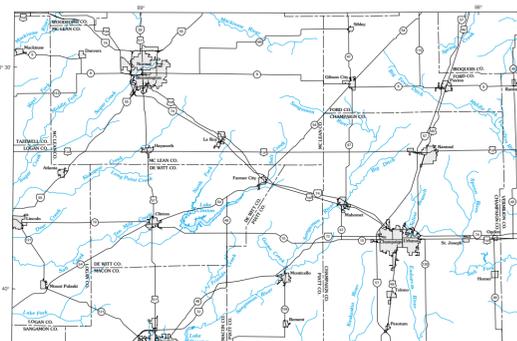


158B—Thickness of the upper Banner Formation. In upland areas around the Mahomet Bedrock Valley, this unit includes lower Banner Formation sediments, as they are patchy in distribution and not mappable separately (see discussion on sheet 1 under "Quaternary stratigraphy," fifth paragraph). Sand and gravel within the upper Banner Formation is locally important as an aquifer, but is too patchy to be mapped at this scale.



158A—Thickness of the middle Banner Formation. In the Mahomet and Mahomet Bedrock Valley, the middle Banner includes lower Banner Formation sediments, as they are patchy in distribution and not mappable separately (see discussion on sheet 1 under "Quaternary stratigraphy," fifth paragraph). Approximate distribution of fluvial (land and gravel) and lacustrine (fill) facies of the Mahomet Sand Member is shown by patterns. Sand and gravel are the principal constituents in the Mahomet Bedrock Valley's main channel. Silt and clay occur in tributaries because ice or sediment dams in the main channel blocked the tributaries, causing water to pond and fine sediment to be deposited.

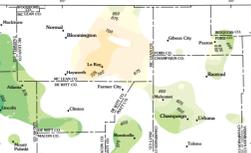
Figure 154-E—Thickness, in feet, of five stratigraphic units. Thickness was computed as the difference in elevation between the top of a unit and the top of the underlying unit. Refer to discussion on sheet 1 under "Converting to raster format" for explanation of characteristic jagged boundaries of units on these raster maps.



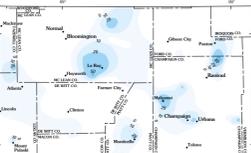
Selected natural and cultural features in the map area.



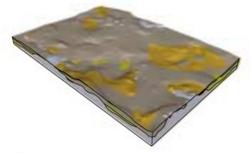
161F—Surface topography of the upper Glasford basal sand (orange unit) and older deposits.



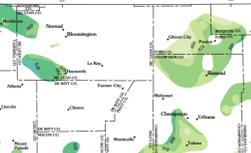
161E—Elevation of top of basal sand, upper Glasford Formation.



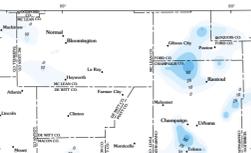
161D—Thickness of basal sand, upper Glasford Formation.



161F—Surface topography of the lower Glasford basal sand (orange unit) and older deposits.

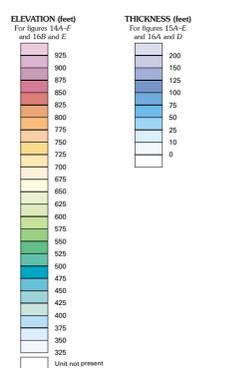


161E—Elevation of top of basal sand, lower Glasford Formation.



161D—Thickness of basal sand, lower Glasford Formation.

Figure 161A-F—Maps and block diagrams showing sand layers at the base of the lower and upper Glasford Formation. These layers, although thin and discontinuous, also are used as aquifers. Other sands within the Glasford exist but are not as readily correlated between data points; therefore, they are not shown. Thickness and elevation are in feet above sea level. Viewpoint in block diagrams is from the southwest. To show topographic detail, the images are vertically exaggerated approximately 30x.



Digital measurements of stratigraphic-unit elevations and thicknesses were made in feet; no rounded units are shown here. To convert to meters, multiply by 0.3048.



Location of the map area, east-central Illinois.