Introduction

This map shows the drainage topography of the upper areas of Big Muddy River in the Pomona Quadrangle. It is intended to provide an overview of bedrock topography in the area. The map is derived from government records and aerial photography made available by the Illinois Department of Natural Resources, Illinois State Geological Survey.

Methods

Field observations were combined with qualitative data from aerial photography and government records. Bedrock topography was derived from aerial photography for the Pomona area. Bedrock elevations were obtained through bridge borings and aerial photography. The Illinois Natural Resource Survey mapped the Illinois Department of Transportation (IDOT) and the Illinois Environmental Survey's 1980s surveys. Digital cartography by J. Domier, Illinois State Geological Survey.

Interpreting the Bedrock Topography

The map shows that the pre-glacial Big Muddy valley was V-shaped in profile and had steep walls. This is evident in the lower, largely unglaciated part of the river valley. The pre-glacial river flowed southwest through the Pomona Quadrangle, entering the Big Muddy valley just west of Murphysboro. It then trended west, making a right-angle bend to the south and joining the present valley of Cedar Creek just east of Pomona Quadrangle slopes toward the northeast. The highest elevation, above 650 feet, occurs near the community of Pomona.


References

