



Geological Survey

Geology of PA

- Abstracts (research)
- Current Mapping
- Field Trips
- Fossils
- Geologic Maps
- Glaciation
- Hazards
- Heritage Sites
- Landforms
- Pa. Geology (The magazine)
- Subsurface:
 - Oil and Gas
 - Basement Geology

Glacial Geology in Pennsylvania



"Have you heard the story of the Ice Age, a time when large sheets of moving ice (glaciers) blanketed the northern half of North America? Unbelievable though it may seem, half of our continent was once buried beneath thousands of feet of ice."

To learn more about glaciers in Pennsylvania, see our Education Series 6 publication, [Pennsylvania and the Ice Age](#).^{*} For a page-sized map of how far glaciers advanced into Pennsylvania, see Map 59, [Glacial Deposits of Pennsylvania](#).^{*} For detailed information about glaciation in northwestern Pennsylvania, see our [General Geology Report 32](#).

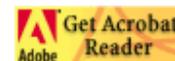


Selected Survey publications and articles on glacial geology

Glaciers changed the landscape and drainage patterns even beyond the reach of the ice. Read about [Lake Monongahela](#)^{*} in a 2002 *Pennsylvania Geology* article by Survey geologist John Harper. This article is a follow-up of his 1997 article, "[Of ice and waters flowing: The formation of Pittsburgh's three rivers](#)"^{*} in *Pennsylvania Geology*. More effects of glaciation on Pennsylvania's surface drainage are described in Survey geologist Gary Fleege's "[A tale of two valleys](#)"^{*} from a 1997 *Pennsylvania Geology* issue. For great images and information on a region affected by glaciers, see our interactive [Park Guide 4](#) for Moraine and McConnells Mill State Parks in Butler and Lawrence counties, northwestern Pennsylvania.

Geologic mapping of surficial glacial deposits is ongoing in Pennsylvania. For more information, contact [Gary Fleege](#) at 717-702-2045.

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