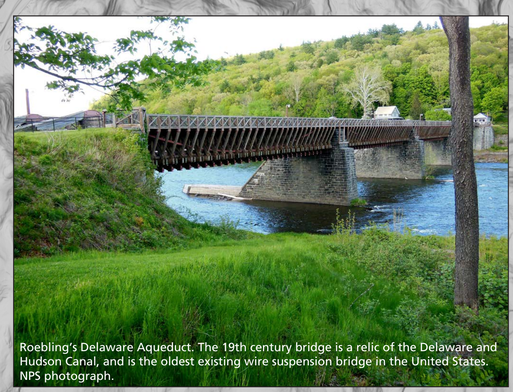
Geologic Map of Upper Delaware Scenic and Recreational River

Pennsylvania and New York

National Park Service
U.S. Department of the Interior

Geologic and Soil Resources Inventory
Natural Resource Stewardship and Science

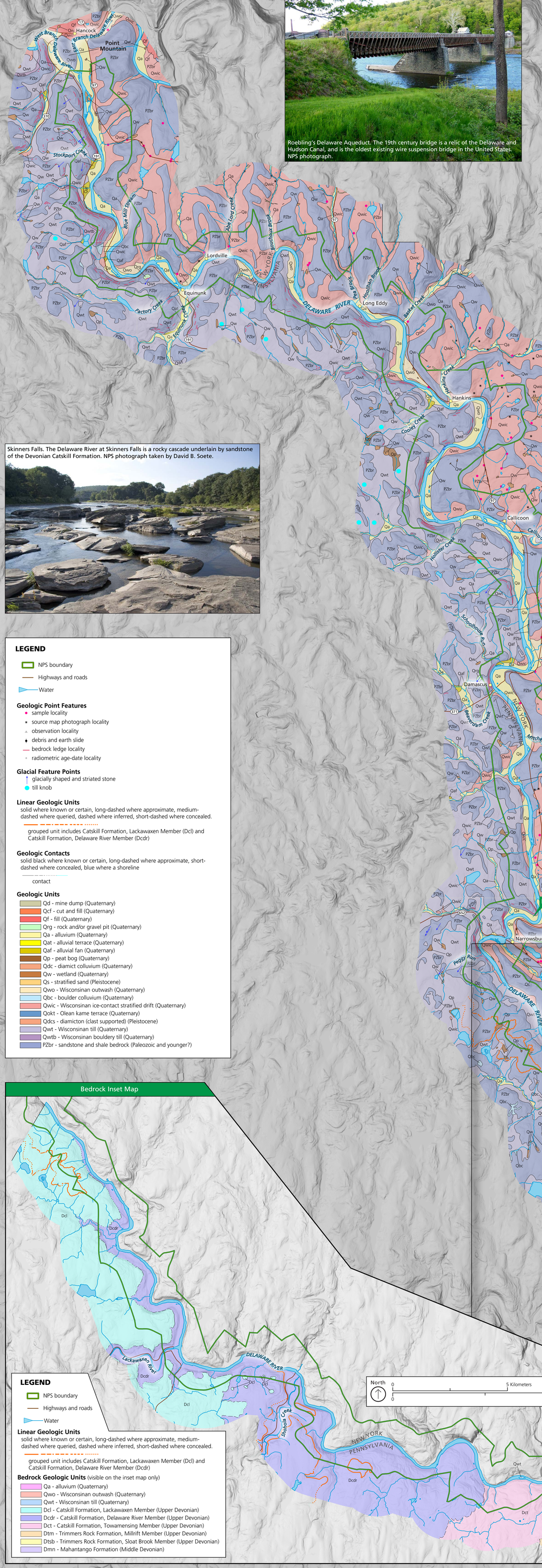


Roebling's Delaware Aqueduct. The 19th century bridge is a relic of the Delaware and Hudson Canal, and is the oldest existing wire suspension bridge in the United States. NPS photograph.

The Hawk's Nest. As the highest point in Upper Delaware Scenic and Recreational River, the Hawk's Nest offers some of the best views of the Upper Delaware River Valley. The scenic cliffs consist of sandstone and shale of the Devonian Towamensing Member of the Catskill Formation. NPS photograph.

Zane Grey fishing in the Delaware River. Known as "the father of the western novel," Grey was inspired to launch his early writing career on the banks of the Upper Delaware River. NPS photograph.

Skinners Falls. The Delaware River at Skinners Falls is a rocky cascade underlain by sandstone of the Devonian Catskill Formation. NPS photograph taken by David B. Soete.



LEGEND

- NPS boundary
- Highways and roads
- Water

Geologic Point Features

- sample locality
- source map photograph locality
- observation locality
- debris and earth slide
- bedrock ledge locality
- radiometric age-date locality

Glacial Feature Points

- glacially shaped and striated stone
- till knob

Linear Geologic Units

solid where known or certain, long-dashed where approximate, medium-dashed where queried, dashed where inferred, short-dashed where concealed.

grouped unit includes Catskill Formation, Lackawaxen Member (Dcl) and Catskill Formation, Delaware River Member (Dcdr)

Geologic Contacts

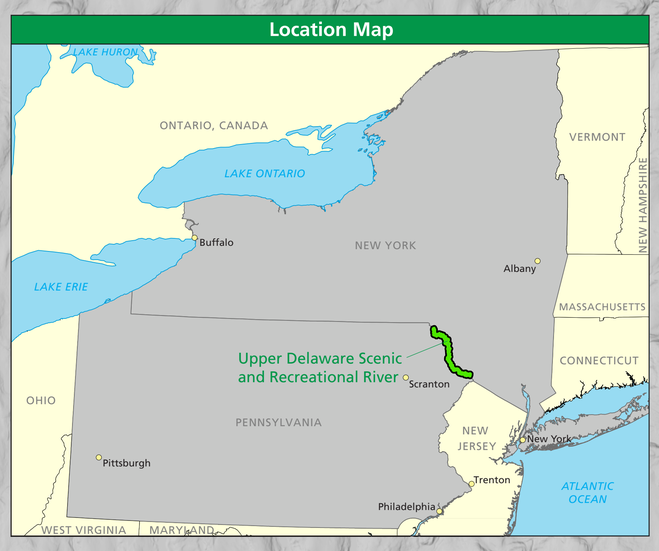
solid black where known or certain, long-dashed where approximate, short-dashed where concealed, blue where a shoreline

contact

Geologic Units

- Qd - mine dump (Quaternary)
- Qcf - cut and fill (Quaternary)
- Qf - fill (Quaternary)
- Qrg - rock and/or gravel pit (Quaternary)
- Qa - alluvium (Quaternary)
- Qat - alluvial terrace (Quaternary)
- Qaf - alluvial fan (Quaternary)
- Qp - peat bog (Quaternary)
- Qdc - diamict colluvium (Quaternary)
- Qw - wetland (Quaternary)
- Qs - stratified sand (Pleistocene)
- Qwo - Wisconsinan outwash (Quaternary)
- Qbc - boulder colluvium (Quaternary)
- Qwic - Wisconsinan ice-contact stratified drift (Quaternary)
- Qokt - Olean kame terrace (Quaternary)
- Qdcs - diamicton (clast supported) (Pleistocene)
- Qwt - Wisconsinan till (Quaternary)
- Qwtb - Wisconsinan bouldery till (Quaternary)
- PZbr - sandstone and shale bedrock (Paleozoic and younger?)

Location Map



This map displays geologic map data compiled by the National Park Service Geologic Resources Inventory. It is not a substitute for site-specific investigations. All GRI products are available at https://go.nps.gov/gripubs.

Source Maps:

Braun, D. D. 2008. Surficial geology of the Aldenville 7.5-minute quadrangle, Wayne County, Pennsylvania (scale 1:24,000). Open-File Report OFSM 08–09.0. Pennsylvania Geological Survey, Middletown, Pennsylvania.
Braun, D. D. 2008. Surficial geology of the Damascus 7.5-minute quadrangle, Wayne County, Pennsylvania (scale 1:24,000). Open-File Report OFSM 08–15.0. Pennsylvania Geological Survey, Middletown, Pennsylvania.
Braun, D. D. 2008. Surficial geology of the Galilee 7.5-minute quadrangle, Wayne County, Pennsylvania (scale 1:24,000). Open-File Report OFSM 08–10.0. Pennsylvania Geological Survey, Middletown, Pennsylvania.
Braun, D. D. 2011. Surficial geology of the Hancock 7.5-minute quadrangle, Wayne County, Pennsylvania, and Broome County, New York (scale 1:24,000). Open-File Report OFSM 11–02.0. Pennsylvania Geological Survey, Middletown, Pennsylvania.
Braun, D. D. 2011. Surficial geology of the Hawley 7.5-minute quadrangle, Wayne County, Pennsylvania (scale 1:24,000). Open-File Report OFSM 06-13.0. Pennsylvania Geological Survey, Middletown, Pennsylvania.
Braun, D. D. 2008. Surficial geology of the Honesdale 7.5-minute quadrangle, Wayne County, Pennsylvania (scale 1:24,000). Open-File Report OFSM 08–04.0. Pennsylvania Geological Survey, Middletown, Pennsylvania.
Braun, D. D. 2010. Surficial geology of the Lake Como 7.5-minute quadrangle, Wayne County, Pennsylvania, and Delaware County, New York (scale 1:24,000). Open-File Report OFSM 10–07.0. Pennsylvania Geological Survey, Middletown, Pennsylvania.
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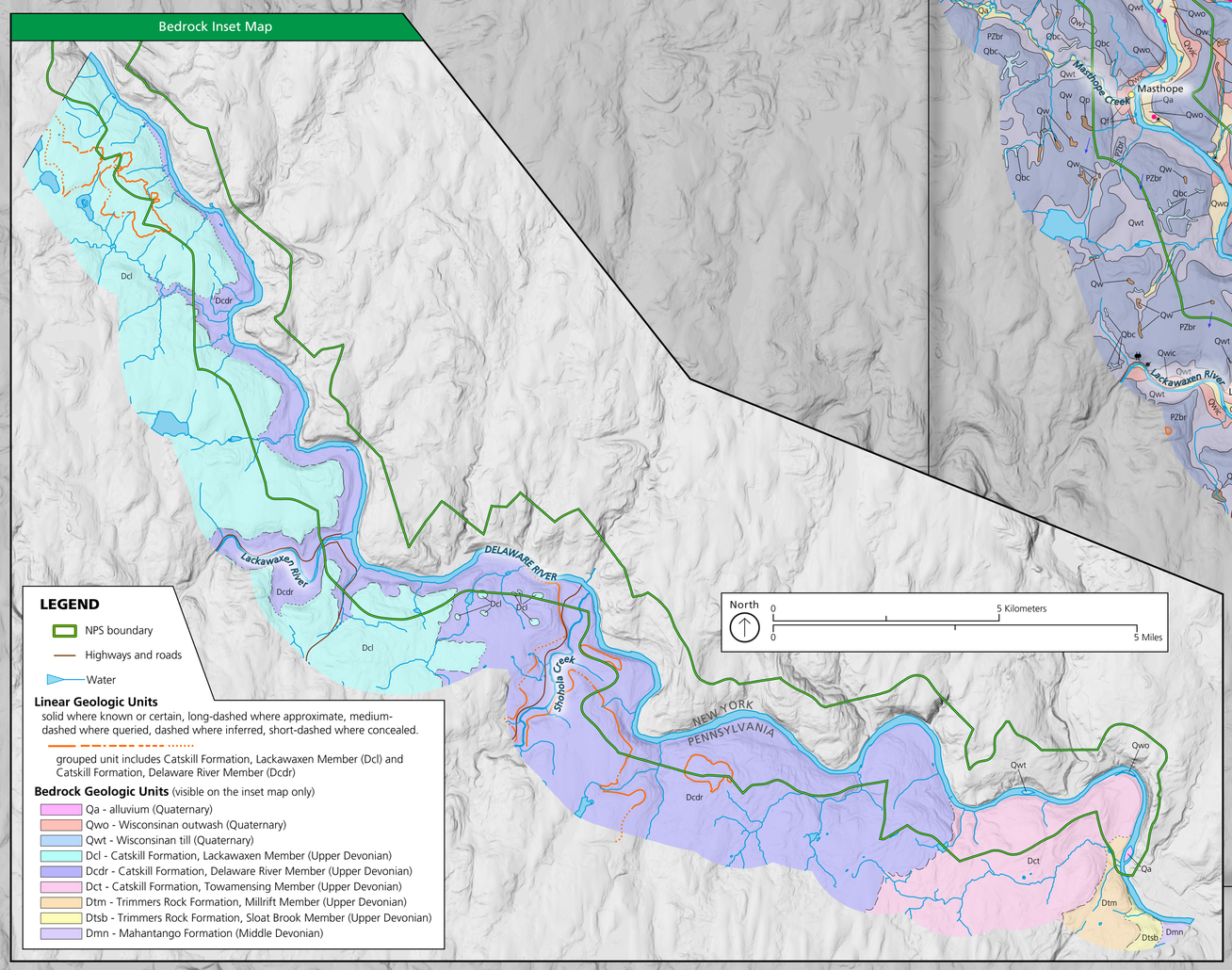
Braun, D. D. 2006. Surficial geology of the Starrucca 7.5-minute quadrangle, Wayne and Susquehanna Counties, Pennsylvania (scale 1:24,000). Open-File Report OFSM 06–05.0. Pennsylvania Geological Survey, Middletown, Pennsylvania.
Braun, D. D. 2008. Surficial geology of the Wayne County portion of the White Mills 7.5-minute quadrangle, Wayne County, Pennsylvania (scale 1:24,000). Open-File Report OFSM 08–05.0. Pennsylvania Geological Survey, Middletown, Pennsylvania.
Sevon, W. D., T. M. Berg, and L. D. Schultz. 1989. Geology and mineral resources of Pike County, Pennsylvania (scale 1:50,000). County Report 52. Pennsylvania Geological Survey, Middletown, Pennsylvania.
Sevon, W. D., T. M. Berg, L. D. Schultz, and G. H. Crowl. 1989. Geology and mineral resources of Pike County, Pennsylvania (scale. 1:50,000). County Report C 52. Pennsylvania Geological Survey, Middletown, Pennsylvania.
Davis, D. K. 1989. Groundwater resources of Pike County, Pennsylvania (scale 1:50,000). Water Resource Report 65. Pennsylvania Geological Survey, Middletown, Pennsylvania.
Davis, D. K. 1989. Groundwater resources of Pike County, Pennsylvania (scale 1:50,000). Water Resource Report 65. Pennsylvania Geological Survey, Middletown, Pennsylvania.
Kowzlowski, A. L. 2017. Surficial geology of the New York Portion of Upper Delaware Scenic and Recreational River and vicinity, New York (northern 7.5' quadrangles; scale 1:24,000). Unpublished data and map. New York State Geological Survey, Albany, New York.
Leone, J. 2019. Surficial geology of the New York Portion of Upper Delaware Scenic and Recreational River and vicinity, New York (southern 7.5' quadrangles; scale 1:24,000). Unpublished data and map. New York State Geological Survey, Albany, New York.
US Geological Survey. 2018. USGS National Hydrography dataset best resolution (NHD) for hydrologic unit (HU) 8 (scale 1:24,000). U.S. Geological Survey, Reston, Virginia.

Source Scales: 1:24,000 and 1:50,000. According to US National Map Accuracy Standards, features are within 12 m (40 ft) and 25 m (82 ft), respectively of their true location.

Poster Layout: Trista L. Thornberry-Ehrlich (Colorado State University)

Poster Date: March 2025

Bedrock Inset Map



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Linear Geologic Units

solid where known or certain, long-dashed where approximate, medium-dashed where queried, dashed where inferred, short-dashed where concealed.

grouped unit includes Catskill Formation, Lackawaxen Member (Dcl) and Catskill Formation, Delaware River Member (Dcdr)

Bedrock Geologic Units (visible on the inset map only)

- Qa - alluvium (Quaternary)
- Qwo - Wisconsinan outwash (Quaternary)
- Qwt - Wisconsinan till (Quaternary)
- Dcl - Catskill Formation, Lackawaxen Member (Upper Devonian)
- Dcdr - Catskill Formation, Delaware River Member (Upper Devonian)
- Dct - Catskill Formation, Towamensing Member (Upper Devonian)
- Dtm - Trimmers Rock Formation, Millrift Member (Upper Devonian)
- Dtsb - Trimmers Rock Formation, Sloat Brook Member (Upper Devonian)
- Dmn - Mahantango Formation (Middle Devonian)

North
0
6 Kilometers
0
6 Miles