

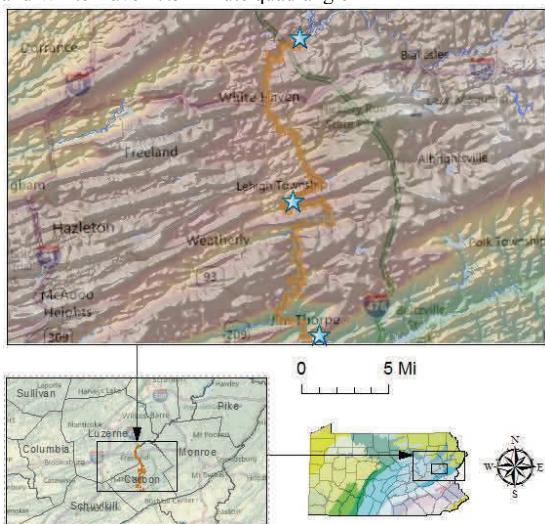


LEHIGH GORGE LUZERNE AND CARBON COUNTIES



Location

Lehigh Gorge State Park, Carbon and Luzerne Counties, Christmans, Hickory Run, Lehighton, Nesquehoning, Weatherly, and White Haven 7.5-minute quadrangle



The folding of the rocks in the gorge took place about 250 million years ago during the mountain-building event known as the Alleghany Orogeny. The collision of the African and North American tectonic plates pushed rocks upward and over the area. Following the event, erosion began to erase as much as 20,000 feet of rock above the Mauch Chunk Formation. After much erosion, a young Lehigh River began to make headward progress across the area, adjusting its path based on the structure of the bedrock folds. About 20,000 years ago, Wisconsinan glaciation peaked in Pennsylvania, and its maximum extent reached as far south as the Lehigh Gorge park area. Evidence for this can be seen as glacial striation marks and layered sand and gravel deposits.



Left: photograph shows southern end of Lehigh Gorge at Bear Mountain to the northeast. Right: View to the south of the rough terrain of the gorge. Borough of Jim Thorpe and Bear Mountain in the distance.

Recommended Reading

Inners, J. D., 1998, Rocks and ruins of the "Upper Grand" – An illustrated trail guide to the geology and historical archeology of Lehigh Gorge State Park, Northeastern Pennsylvania: Pennsylvania Geological Survey, 4th ser., [Open-File Report 98-03](#), 62 p.

Geyer, A. R., 1969, Hickory Run State Park—Boulder field: Pennsylvania Geological Survey, 4th ser., [Park Guide 2](#).

For information regarding outstanding geologic features, contact the Pennsylvania Geological Survey:

Bureau of Topographic and Geologic Survey, 3240 Schoolhouse Rd., Middletown, PA 17057
717-702-2017 www.dcnr.state.pa.us/topogeo

Visit the [Lehigh Gorge State Park](#) web page of DCNR.