

10 percent chance of peaking at 2,100 cubic feet per second (59 m<sup>3</sup>/s) in any given year. It has a 2 percent chance of peaking at 4,300 cubic feet per second (120 m<sup>3</sup>/s), a 1 percent chance of peaking at 5,650 cubic feet per second (160 m<sup>3</sup>/s), and a 0.2 percent chance of peaking at 10,800 cubic feet per second (310 m<sup>3</sup>/s).<sup>[6]</sup>

The peak annual discharge of Hunlock Creek at the confluence of another one of its tributaries with the main stem has a 10 percent chance of reaching 1,460 cubic feet per second (41 m<sup>3</sup>/s). The discharge has a 2 percent chance of reaching 3,050 cubic feet per second (86 m<sup>3</sup>/s) and a 1 percent chance of reaching 4,050 cubic feet per second (115 m<sup>3</sup>/s). It has a 0.2 percent chance of reaching 7,900 cubic feet per second (220 m<sup>3</sup>/s).<sup>[6]</sup>

The average annual rate of precipitation in the watershed of Hunlock Creek is 35 to 45 inches (89 to 114 cm).<sup>[7]</sup>

## Geography and geology

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The elevation near the mouth of Hunlock Creek is 512 feet (156 m) above sea level.<sup>[8]</sup> The elevation near the creek's source is between 1,140 and 1,160 feet (347 and 354 m) above sea level.<sup>[1]</sup> The creek's elevation decreases at a rate of 79.3 feet (24.2 m) per mile.<sup>[7]</sup>

A high ridge runs from near Hunlock Creek westward to the Shickshinny Gap. This ridge is known as Shickshinny Mountain and is made from Pocono beds. Green sandstone and red shale occur along the creek. A sandstone formation containing red quartz pebbles also occurs in the area and at one point forms a 30-foot (9.1 m) high cliff along the creek. Additionally, shale of the Mauch Chunk Formation can be found in the vicinity of the creek.<sup>[9]</sup>

Drift heaps cover the old channel of Hunlock Creek.<sup>[9]</sup>

A 1921 report by the Water Supply Commission of Pennsylvania described the topography of the watershed of Hunlock Creek as "rough and hilly". The creek cuts through a mountain range in its lower reaches. Swamps and glacial lakes occur in the watershed. The channel of the creek is sinuous and cuts through rock formations consisting of sandstone and shale.<sup>[7]</sup>

## Watershed

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The watershed of Hunlock Creek has an area of 32.5 square miles (84 km<sup>2</sup>).<sup>[2]</sup> The creek's mouth is in the United States Geological Survey quadrangle of Nanticoke. However, its source is in the quadrangle of Harveys Lake.<sup>[8]</sup> The watershed is in the northwestern part of Luzerne County. It is part of the Lower North Branch Susquehanna drainage basin.<sup>[7]</sup>

Hunlock Creek is described as a "good-sized creek" in the 1909 book *A History of Wilkes-Barré, Luzerne County, Pennsylvania, from Its First Beginnings to the Present Time*.<sup>[10]</sup>