

The Pennsylvania Observer

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August 2007 – Pennsylvania Weather Recap

The month began rather warm and within the first week or so, many places registered their highest temperature of the summer. A westward extension of the Bermuda high circulated rather hot and humid air from the Ohio and Tennessee Valleys into the Mid-Atlantic region, including much of southern and eastern Pennsylvania. However, the boundary with a cooler, less humid air mass fluctuated through northern and western parts of the state leading to several bouts of strong to severe thunderstorms. The most widespread case of damaging storms occurred on August 7-8th with local flooding, hail, wind damage and a couple of tornadoes. There was a respite from the stormy conditions from August 11-13th with cool, foggy mornings followed by seasonably warm afternoons. A series of weak cool front crossed the state from August 13-15, but a more significant front ushered in the coolest air mass of the later summer on August 16-17. Initially, only isolated storms heralded the Canadian air mass, but a second surge on Friday the 17th produced widespread large hail in the northeast quarter of the Commonwealth. A refreshingly cool air mass spread in from the 18-19th, but was quickly overrun by very warm and sticky air. The result was a prolonged period of chilly, dull, wet conditions in the eastern two-thirds of the state and several very heavy thunderstorms in the southwest from August 20-22nd. Some sections received more than 3 inches (77mm) in one day. This rain brought much needed relief to the very dry conditions in the central portions of the state. Very warm and humid conditions slowly spread from west to east across the state so that August 25th was exceptionally hot and humid in most places. A cooler air mass arrived for the start of the last week of the month. It did turn briefly very warm and sticky for the last two days of the month until a fresh dose of Canadian air arrived in time for the Labor Day weekend.

Overall, August 2007 was a rather warm month with readings averaging 1.5-3F above normal. It was the wettest month of the growing season with most of southwest Pennsylvania receiving more than 6 inches of rain.

Here are the weather extremes across Pennsylvania (**observations taken at 8AM EDT**) during July 2007 from the NWS Cooperative & ASOS Networks. The extremes occurred in the 24-hour period prior to the date listed.

Parameter	Location	Value	Date (8 AM EDT)	County
Highest Temperature	York Haven	99 °F	August 4 th	York
Lowest Temperature	Punxsutawney	37 °F	August 16 th	Jefferson
Greatest Cumulative Liquid Precipitation	Butler	9.59"	-	Butler
Least Cumulative Liquid Precipitation	Meshoppen	2.98"	-	Wyoming