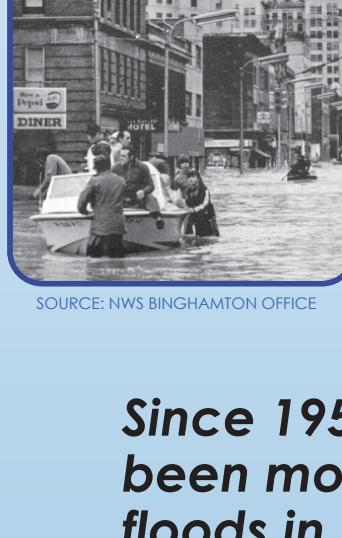


FLOODING IN PENNSYLVANIA

Flooding is the most common hazard in the Keystone State. Are you at risk?

WE HAVE A LONG HISTORY OF FLOODING

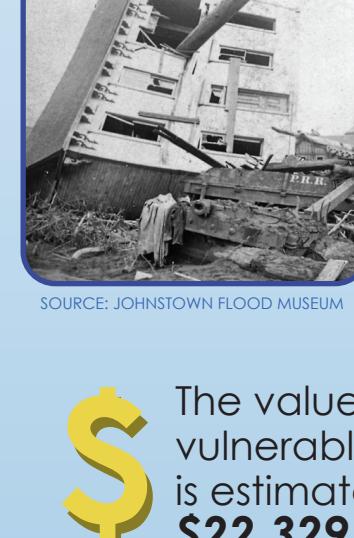
RIVERINE FLASH URBAN DAM FAILURE ICE JAM



SOURCE: NWS BINGHAMTON OFFICE



SOURCE: NWS STATE COLLEGE OFFICE



SOURCE: JOHNSTOWN FLOOD MUSEUM



SOURCE: NWS STATE COLLEGE OFFICE

Since 1950, there have been more than 4,000 floods in Pennsylvania



The value of vulnerable buildings is estimated at **\$22,329,310,000**

110,336 households
at risk of being displaced by a 100-year flood

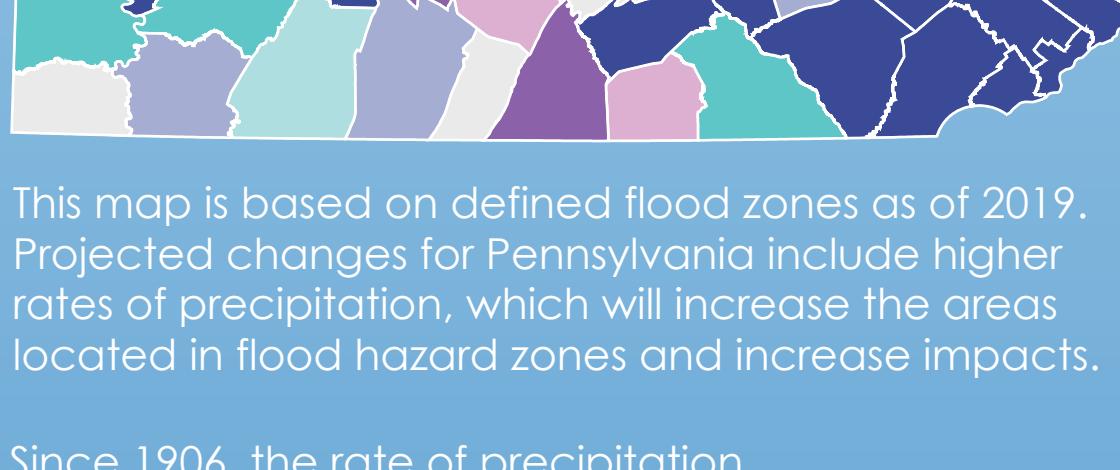


923 historic properties
are at risk

CLIMATE CHANGE WILL LEAD TO MORE FLOODS

Potential social and economic impacts from a 100-year flood*

*There's a 1% chance of flooding at this magnitude occurring in a year



Estimated total economic losses: **\$22,475,430,000**

Estimated displacement: **158,820 people**



This map is based on defined flood zones as of 2019. Projected changes for Pennsylvania include higher rates of precipitation, which will increase the areas located in flood hazard zones and increase impacts.

Since 1906, the rate of precipitation has **increased for all counties**



Some areas have witnessed as much as a **20% increase** in precipitation



Precipitation is expected to

increase 8%

by 2050

Invest in natural flood mitigation, such as **bioswales** and **rain gardens**



Use a **renewable energy supplier** or invest in **rooftop solar**



Determine your risk at **home, work, and on your commute** with the Pennsylvania DCED Flood Zone Map



Get involved in county-level **hazard mitigation**



Choose alternative forms of transportation, such as **public transit, walking, or biking**



If your home is located in a flood hazard zone, invest in **flood insurance**



SOURCES

<https://www.pema.pa.gov/>
<https://www.weather.gov/ctp/TSLeeFlooding>
<https://www.jaha.org/edu/flood/>
<https://www.depgis.state.pa.us/>

<https://www.twitter.com/NWSStateCollege/>
<https://www.weather.gov/bgm/pastFloodJune1972>
<https://www.weather.gov/safety/flood-states-pa>
<http://dced.maps.arcgis.com/apps/webappviewer/index.html?id=4321d9e3e1094dc494f942c039604d3a>

<https://www.pahmp.com/>
<https://www.ncdc.noaa.gov/stormevents/>
<https://www.pasda.psu.edu/>