America's Growing Flood Risk Pennsylvania



CONSIDERABLE GAPS IN FLOOD RISK REVEALED

- New research shows 370,200 additional Pennsylvania homes are at substantial risk of flooding
- Properties in Philadelphia are vulnerable to flood damage from riverine flooding, high tide, storm surges, and tropical storms or hurricanes
- · Inland flooding threatens Pennsylvania homeowners with heavy rains associated with winter snowmelt and spring storms
- · Poor drainage due to urbanization leaves many areas of the state susceptible to flooding from heavy rainfall
- Over the next 30 years there will be a 4% growth in the number of Pennsylvania properties at substantial risk of flood

Current Properties at Risk

Difference in number of properties currently at substantial risk1

+ 370,200 ↑

194,400 FEMA

564,600 First Street Foundation

Properties at Risk by 2050

Total number of properties at substantial risk²

+ 22,800 (+4%) 1

564,600 587,400 in 2020

Pennsylvania cities with the greatest number of properties at risk³

Percentages reflect total number of community properties having some level of flood risk.

Municipality	2020		2050		Change	
Philadelphia	53,378	10%	60,561	11%	+7,183	+13.5%
Pittsburgh	21,803	15%	22,373	16%	+570	+2.6%
Harrisburg	7,395	37%	7,686	39%	+291	+3.9%
Wilkes-Barre	6,919	44%	6,984	44%	+65	+0.9%
Williamsport	5,039	53%	5,152	55%	+113	+2.2%
Kingston	4,869	98%	4,906	99%	+37	+0.8%
Johnstown	4,532	41%	4,586	41%	+54	+1.2%
Scranton	3,558	13%	3,652	14%	+94	+2.6%
Erie	3,287	9%	3,405	9%	+118	+3.6%
Altoona	3,276	15%	3,386	15%	+110	+3.4%

 $^{^3}$ Risk is calculated as inundation of 1 cm or more to the building in the 500 return period (0.2% annual risk). See methodology for full model details. Threshold of at least 2,000 properties for



587,000

Pennsylvania properties at risk

203,000

properties will face an "almost



Floods are the #1

\$69,000

2005-2020

14 federal disasters

were declared in Pennsylvania between 2003 & 2018 as a result of floods, extreme storms, and hurricanes

(source: https://www.pewtrusts.org/en esearch-and-analysis/fact-sheets/2019/01/ pennsylvania-flood-risk-and-mitigation)

PENNSYLVANIA STORM SIMULATION

Using its proprietary risk model, First Street Foundation recreated 5 major storm/flooding events that occurred since the year 2000 and calculated the number of properties that would be affected had the same storm/even struck today. Its findings are shocking.

Since 2000, nearly 257,100 Pennsylvania property owners have made flood insurance claims through the National Flood Insurance Program or the Individual Assistance Program.

Date # Properties affected Flood Event

Hurricane Isabel	2003 Sep	160
River flood near Harrisburg, PA	2004 Sep	8,565
River flood near Pittsburgh, PA	2004 Sep	5,020
Nor'easter	2009 Nov	69
Hurricane Irene	2011 Aug	10
River flood across central Pennsylvania ⁴	2011 Sen	13 277

Check your flood risk



NFS RECOMMENDS



Check your clients flood risk at floodfactor.com

Create a custom quote for your client at https://nationalfloodservices.com/agents-portal/agents/

Inform your clients of their personal flood risk using our customizable email/letter and postcard templates.

— Our resources include: —

Social Media Tools



Email/Letter **Templates**



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