

RISK FACTOR

Flood Risk Overview

Current Protections

Where to Start

Current & Future Risk

Historic Floods

Environmental Changes

Community Solutions

Other Risks

FLOOD RISK OVERVIEW

Does Hickory have risk?

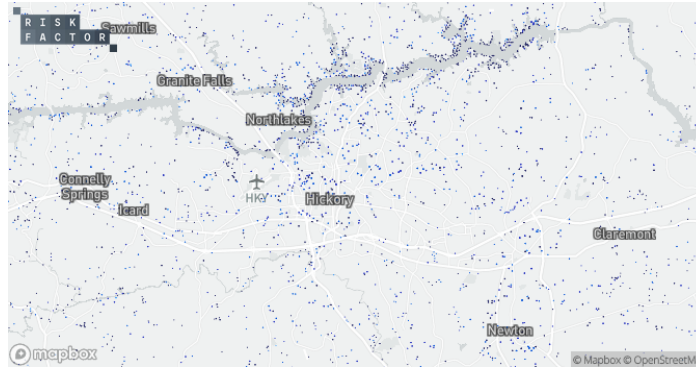
Minor



There are **1,348** properties in **Hickory** that have greater than a **26%** chance of being severely affected by flooding over the next 30 years. This represents **9%** of all properties in Hickory.

In addition to damage on properties, flooding can also cut off access to utilities, emergency services, transportation, and may impact the overall economic well-being of an area. Overall, **Hickory** has a **minor risk of flooding** over the next 30 years, which means flooding is likely to impact day-to-day life within the community. This is based on the level of risk the properties face rather than the proportion of properties with risk.

Other Risks



Hickory Flood Risk ⓘ

Residential **Moderate Risk**

980 out of **12,417** homes ⓘ

Road **Moderate Risk**

67 out of **523** miles of roads ⓘ

Commercial **Minor Risk**

131 out of **2,016** commercial properties ⓘ

Critical Infrastructure **Minor Risk**

1 out of **17** infrastructure facilities ⓘ

Social Facilities **Minor Risk**

2 out of **73** social facilities ⓘ

Minor Moderate Major Severe Extreme

CURRENT PROTECTIONS

Is Hickory protected from flooding?

Although flood risk can never be completely eliminated, communities that adapt to higher

flood risks can limit flood damage and lower flood insurance costs. [Learn more about solutions.](#)

Adaptation measures

0

Known adaptation measures ⓘ

0

Properties protected by adaptation ⓘ

WHERE TO START

How can communities begin to protect themselves?

Lowering flood risk starts with higher standards. Some places plan to a higher standard (a "500 year" standard) that lowers the number of properties at severe risk. Protecting homes to this level would reduce the risk to the **1,348** severely affected properties.

Flood event	% chance of flooding in a given year	% chance of flooding over 30 years
100 year	1%	26%
500 year	.2%	6%

CURRENT & FUTURE RISK

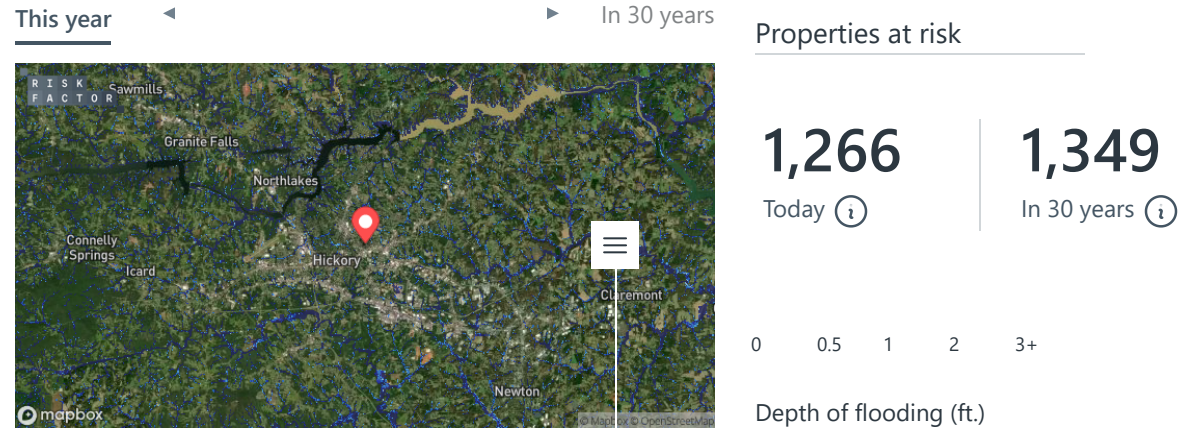
How will Hickory's risk change?

Deeper floods from major events, like hurricanes, are less likely to occur, but affect more properties than more shallow flood events, like heavy rains.

As Hickory feels the effects of a changing environment, however, events of all kinds will affect more properties within the community.

If a low-likelihood storm resulting in severe flooding (a 1-in-100 year flood event), occurred today, it could affect **1,266** properties in **Hickory**. This type of event has a 26% chance of occurring at least once over the life of a 30 year mortgage.

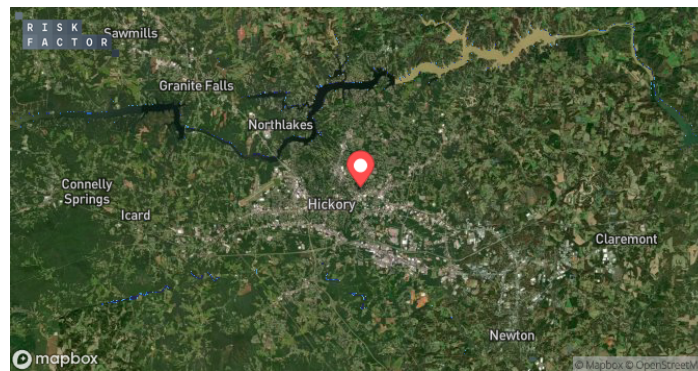
30 years from now, an event of this same likelihood would affect **1,349** properties due to a changing environment.



HISTORIC FLOODS

Are there past examples?

Based on a recreated model of the flood, **18**
properties were impacted by **Hurricane Florence**
in **September, 2018**.



18

Properties impacted in
Hickory ⓘ

0 0.5 1 2 3+

Depth of flooding (ft.) ⓘ

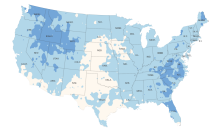
ENVIRONMENTAL CHANGES

Why is risk changing?

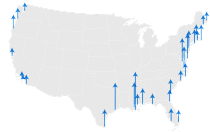
A changing environment means higher seas, new weather patterns, and stronger storms. As the atmosphere warms, there is more evaporation and more water available when it rains. A warmer atmosphere also means warmer oceans, which can intensify flooding from hurricanes and offshore storms. Sea level rise also increases coastal flood risks, as higher seas mean there's

more water available when high tides and coastal storms cause flooding.

Learn more about the environmental factors increasing flood risk [here](#).



Precipitation
Change



Sea Level Rise



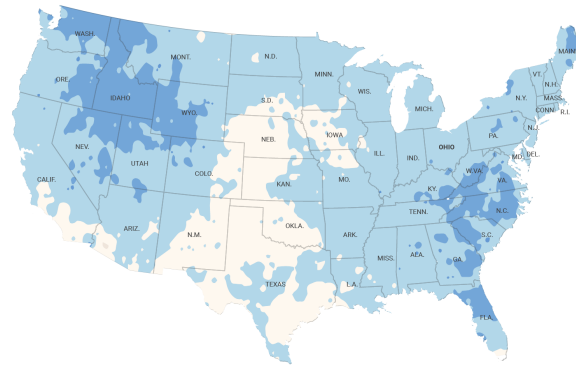
Sea Surface
Temperatures

Select year of projection

This year

In 15 years

In 30 years



Change in extreme rain events compared to 1980-2010 average. ⓘ

← LIGHTER HEAVIER →

-10% -5% 0% 5% 10%

Source: NASA Earth Exchange Global Daily Downscaled Projections (NEX-GDDP).

What else can communities do?

Individuals, mayors, governors, and Congress can work together to build protections before flooding, build back stronger after flooding, and create plans that future-proof communities.



Green

Green infrastructure is a cost-effective and sustainable flood management approach that gathers and removes water at its source.



Grey

Grey infrastructure uses concrete or steel structures to control flooding. These engineered structures are costly, take time to build, and require regular maintenance.



Resilience

Resilience measures are community-wide, non-structural strategies that help people bounce back more quickly after floods.

Explore more solutions [here](#).

What are my other risks?

In addition to the flooding risk described above, Hickory has **minor risk from wildfires, major risk from heat** and **minor risk from severe winds**. To learn more details about Hickory's risk and solutions visit this area's Risk Factor® pages below.

Minor



1,654 properties in **Hickory** have some risk of being in a wildfire within the next 30 years.

[Go to Fire Factor page](#)

Major



Hickory is expected to see **142.9%** increase in the number of days over **102°F** over the next 30 years.

[Go to Heat Factor page](#)

Minor



18,203 properties in **Hickory** have some risk of being in a severe wind event within the next 30 years.

[Go to Wind Factor page](#)