FLOODING IN NB

New Brunswick Flood Hazard Maps

The New Brunswick Flood Hazard Maps allow users to explore areas that may experience potential flooding on the coast and near rivers in New Brunswick. These new updated and expanded maps incorporate the influence of climate change on flooding to the year 2100.

WHERE TO ACCESS THEM

The mapping can be accessed through GeoNB or HERE

HOW THEY WERE CREATED

The maps were created by the Department of Environment and Local Government using projections from:

- *Updated Sea-Level Rise and Flooding Estimates for New Brunswick Coastal Sections 2020* by R.J. Daigle Enviro;
- *Hydrotechnical Report: Inland Flood Mapping in New Brunswick* by l'Université de Moncton.

The maps were produced with support from the Government of New Brunswick and the Government of Canada.

HOW THEY CAN BE USED

Flood maps show where and how often potential flooding can occur.

Governments and communities can use these maps to help make decisions about the location of buildings, roads, and other infrastructure. Mapping will identify areas at risk of flooding and areas expected to flood in the future.

Communities can also use the maps to help plan for the changing climate and the increasing risk of flooding. More than half of New Brunswick's municipalities have already embarked on adaptation planning and will have completed Climate Change Adaptation Plans by April 2022.

Individuals can use the maps to see if their homes or properties might be impacted by flooding.

This can inform decisions about protecting a home with various flood proofing measures. The mapping can also help government, communities and individuals plan an evacuation route in the event of a flood, inform first responders of flood-prone locations, and serve to inform the production of municipal and community vulnerability assessments.

The New Brunswick Flood Hazard Mapping shows five different levels of flooding.

THE NEW BRUNSWICK FLOOD HAZARD MAPS' FIVE FLOOD LEVELS

1. Present Day Flood, 1 in 20 year
(5% Annual Exceedance Probability)
This is a present-day flooding event that has a 5% chance of being reached per year. This is also known as a 1 in 20-year flood event.

2. Present Day Flood, 1 in 100 year
(1% Annual Exceedance Probability)
This is a present-day flooding event that has a 1% chance of being reached per year. This is also known as a 1 in 100-year flood event.

3. 2100 Flood with Climate Change, 1 in 20 year
(5% Annual Exceedance Probability)
This is a flooding event that will have a 5% chance of being reached per year, when adjusting for climate change impacts to the year 2100. This is also known as a 1 in 20-year flood event, adjusted for climate change.

4. 2100 Flood with Climate Change, 1 in 100 year
(1% Annual Exceedance Probability)
This is a flooding event that will have a 1% chance of being reached per year, when adjusting for climate change impacts to the year 2100. This is also known as a 1 in 100-year flood event, adjusted for climate change.

5. 2100 Higher High Water Large Tide
(HHWLT)
This is the projected extent of the high tide in the year 2100. With sea levels continuing to rise due to climate change, this serves as a good reference to understand what sea levels will look like in the future.

*Annual Exceedance Probability (AEP): AEP is the probability or chance that a given event (in this case flooding) will occur annually and is usually indicated by a percentage. For example, a flood hazard map showing a 1% AEP indicates the flooding has a 1% chance of happening in any given year.