



Extreme rainfall

Projections from global climate models can tell us what changes we might expect in the future as a result of climate change. These projections are based on a “business as usual” high emissions scenario, and show median values for expected conditions for the 2050s, relative to the baseline period of 1981-2010.

By the 2050s, Vancouver can expect

shifting precipitation patterns

Average fall rainfall is expected to increase by:

12%

and by the end of the century, some years may have more rain in fall than in winter



Annual average snowfall will decrease by 60%

more frequent and intense rainfall



One-in-twenty year rainfall events will double in frequency

The amount of rain in a single day extreme rainfall event will increase by 20% to:

86mm

Extreme rainfall has many impacts



Flood damage to buildings & infrastructure



Increases in sewer backups



Harm to marine ecosystems due to pollutant runoff



Rising flood insurance costs

Vancouver is taking action

We're building a more resilient, equitable, and healthy city through our Climate Change Adaptation Strategy



Continuing to construct green rainwater infrastructure



Expanding the Adopt A Catch Basin program



Piloting new overland flooding solutions for Still Creek



Learning more through an Extreme Rainfall Risk Assessment