

# Climate Change in Buffalo, NY



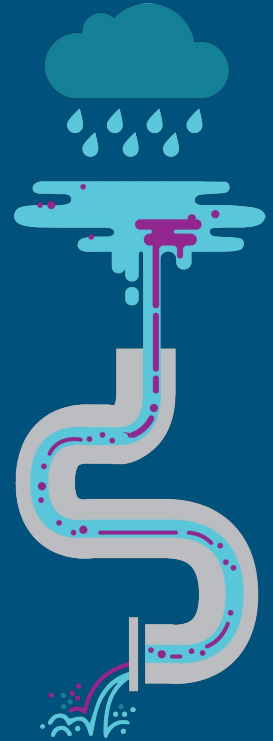
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# RAIN AND PRECIPITATION

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Buffalo has experienced an increase in rain and precipitation and is expected to see more frequent and intense storms in the future.

By 2050, we are likely to have an additional 4" of rain each year and by 2100 we are likely to have up to 7" more.



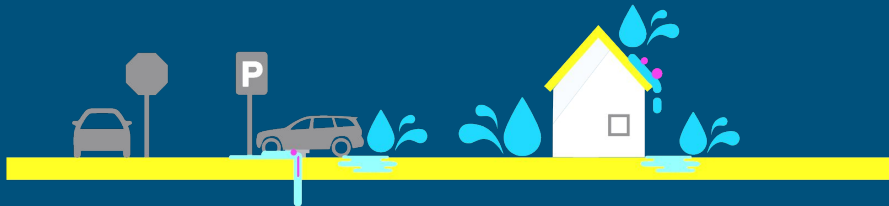
# FLOODING

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With the increase in wet weather, Buffalo may experience more flooding in the future.

Flooding may occur near water bodies such as the Buffalo River or Scajaquada Creek, but may also occur in streets, sidewalks, parking lots or anywhere where water is unable to infiltrate into the ground or be carried away fast enough by the stormwater sewer system.

Green space helps reduce flooding by absorbing, diverting, or capturing rainfall.



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# HEAT

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In Buffalo, temperature has increased by  
**1.5 degrees**  
since the 1950's

Temperature will continue to increase by  
**3-5 degrees**  
over the next 30 years



# URBAN HEAT ISLAND

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Like most urban areas, Buffalo experiences greater heat in the city compared to the surrounding area. This is due to the Urban Heat Island effect, where impervious surfaces such as concrete and asphalt absorb the heat from the sun making for higher temperatures.

Green space helps reduce urban heat through shade and water in the atmosphere.



# WHAT ARE WE DOING ABOUT IT?

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The City of Buffalo, Buffalo Sewer, and community stakeholders are actively working together to address our changing climate in ways that reduce our greenhouse gas emissions and increase our overall resilience.

*Rain Check 2.0* is Buffalo's GREEN INFRASTRUCTURE Initiative which helps fight climate change impacts through green projects.

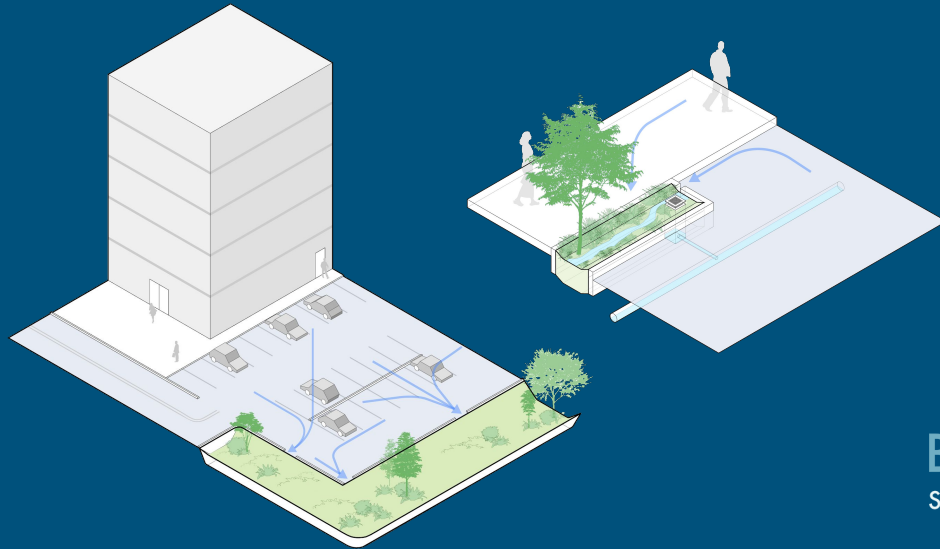


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# WHAT ARE WE DOING ABOUT IT?

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Since 2015, we have installed GREEN INFRASTRUCTURE around Buffalo, including rain gardens, trees, and stormwater planters.



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# WHAT ARE WE DOING ABOUT IT?

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Buffalo Sewer Authority is also currently conducting a Climate Change Vulnerability Assessment that identifies the sensitivity and adaptive capacity of our stormwater infrastructure, natural systems, socio-economic populations, and public health factors.

This assessment will be used for future planning efforts within the City of Buffalo to create healthier environments and more resilient infrastructure to the impacts of climate change.



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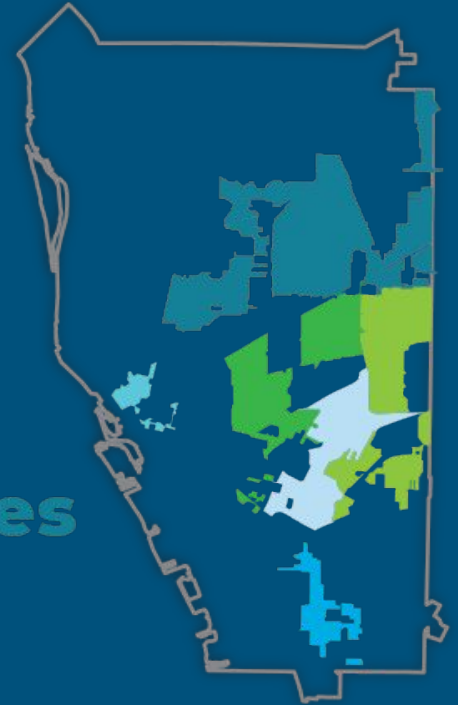
# PRIORITIZING EQUITY

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*Rain Check 2.0* focuses on six priority areas in the City of Buffalo to advance equity with GREEN INFRASTRUCTURE and partner with various community organizations and stakeholders.



**Finding  
green  
opportunities  
together.**



# WE WANT TO HEAR FROM YOU

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**Please respond to a few short questions below to help inform our future work.**

