



Environmental Action for a Healthy Detroit:

Updates and Suggestions for Decision Makers and Residents

How do global environmental trends affect Detroit?

Environmental disasters affect all of us. Some communities experience greater impacts than others. Addressing the impacts for those who are most most affected by environmental impacts is crucial for bridging environmental and health gaps.

Here are some ways environmental shifts impact Detroit residents:



As <u>heatwaves</u> become more common, people without access to air conditioning are at risk of heat-related illness and death. This is especially true for older adults, people with chronic conditions, and people who work outdoors. ⁶ 13



As extreme precipitation becomes more frequent, the risk of flooding, flood-related illness, stress and death increases. Flooding in the U.S. is more likely to affect low-income communities and communities of color. ^{6 7}



As temperatures increase, air pollution gets worse. Many low-income communities and communities of color are in areas with high levels of air pollution. They already experience high rates of asthma, heart disease, and other chronic diseases. These conditions will get worse with increased air pollution. ⁶ ⁸



Extreme weather events can create major issues with transportation, food access, and power outages. Detroit communities already struggling with limited access to these services are likely to be hardest hit. ⁹ 10 11 12

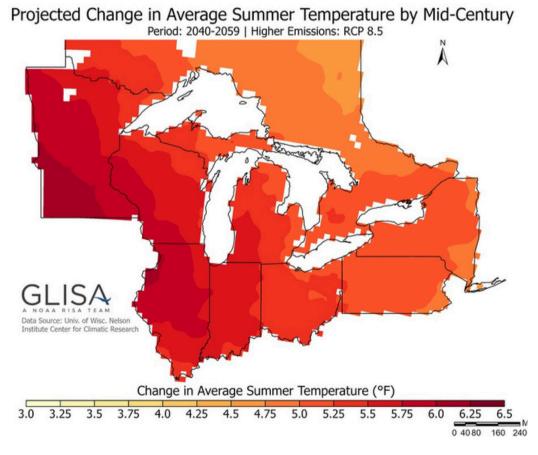




How are weather extremes shaping life around the Great Lakes Region?

Temperatures are rising globally. In Michigan, this means:

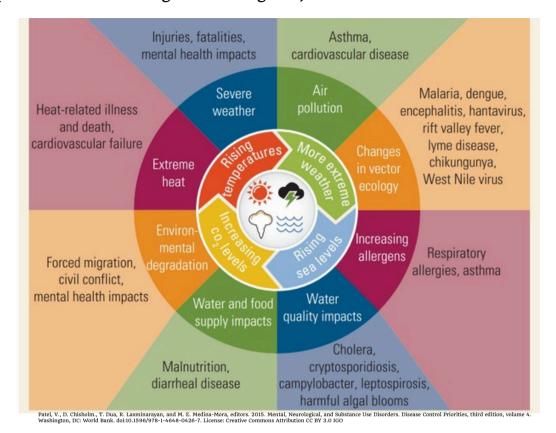
- Heat waves are more frequent. In the next 50 years, summers in Michigan may feel like current-day Arkansas. Detroit could experience as many as 65 days per summer with high temperatures above above 90°F, a large increase over the current average of just 13 days per summer.¹
- Extreme rainfall events are more frequent, especially in winter and spring.
- Frequency and intensity of severe storms will likely continue to increase. 1 2
- Alongside these extreme events, it may be drier overall with increasing periods of drought.



Michigan summers could be about 5.0°F warmer by 2050. 14

What health impacts of global weather shifts can we expect?

Health risks are projected to increase this century under all future emissions scenarios (predicted amount of greenhouse gases). ⁵



What can residents and decision makers do?

- Learn about environmental disasters and their health risks. Encourage people to take action to reduce harmful effects of environmental change.
- Encourage people to take action to reduce adverse effects of environmental shifts. This includes plans to assure protections for those who are most vulnerable.
- Increase monitoring of environmentally-related health outcomes, such as heat-related hospital stays, injury or death from extreme weather events, and asthma- related outcomes and have a plan for responding to any increases.
- Decision makers should work closely with planners and public health professionals to assess health impacts of land use decisions that may affect urban heat islands, air quality, and storm water management. They should incorporate results into land use decisions to protect public health.

Please see http://mleead.umich.edu/Coec_Fact_Sheets.php for the citations included in this factsheet.

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