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From: [George Washington University via EurekAlert!](#)
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Study assesses climate change vulnerability in urban America

Flooding due to rising ocean levels. Debilitating heat waves that last longer and occur more frequently. Rising rates of diseases caused by ticks, fleas, and mosquitoes, such as Lyme disease, Chikungunya, and Zika. Increasing numbers of Emergency Room visits for asthma attacks due to higher levels of ground-level ozone. Impacts of climate change such as these will affect cities across the country.

One of the first efforts to systematically assess how cities are preparing for climate change shows that city planners have yet to fully assess their vulnerability to climate change, leaving serious risks unaddressed. In their evaluations to-date, they see infrastructure and risks to specific human populations as the primary areas of concern. Despite these concerns, expert assessments of urban climate vulnerability often do not address the real risks that local planners face.

Sabrina McCormick, PhD, an Associate Professor of Environmental and Occupational Health at Milken Institute School of Public Health at the George Washington University, says her research suggests that national experts must make changes in their approach to ensure that their assessments are useful to urban planners and other city managers responsible for safeguarding their populations' health and safety and access to energy and natural resources like drinking water.

McCormick conducted 65 interviews with people working in six cities located across the United States and found a wide range of preparedness for climate change. The local experts she interviewed in Boston, Los Angeles, Portland, Raleigh, Tampa and Tucson tended to focus their thinking on climate vulnerabilities in terms of infrastructure, human populations, and other local concerns. These categories do not always mesh well with the frameworks used by national experts, McCormick says. To help local decision makers better prepare for extreme weather, national experts should focus less on biophysical risk predictions and more on the human health impacts -- including suggestions on how the health, energy or urban planning sectors can put in place strategies to protect the public, she says.

McCormick's interviews also brought to light that the biggest obstacle to assessing vulnerability to climate change on the local level was the lack of acknowledgement by some institutions that climate change is a serious issue.

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