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## HEALTH

# CLIMATE CHANGE LEADING TO WARMING OF JUST 1.5C COULD KILL 1,600 MORE AMERICANS EVERY YEAR

BY KASHMIRA GANDER ON 1/13/20 AT 11:26 AM EST

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**H**otter weather thanks to climate change could cause a spike in deaths related to injuries—including suicides, assaults, and drownings—according to a study. One expert described the problem to *Newsweek* as the looming "hidden public health burden" of global warming.

Deaths by suicides, assaults, transport accidents, drownings and falls were forecast to be on the up if temperatures rose on average by 1.5 and 2 degrees Celsius above pre-industrial levels, the authors of the paper published in the journal *Nature Medicine* found.

The researchers analyzed data on deaths and temperatures between 1980 to 2017 in mainland United States, excluding Alaska and Hawaii, to see if anything changed when the weather was 1.5 and 2 degrees Celsius higher than average. They chose these figures as the international Paris Agreement on the climate, which the U.S. has started the process of withdrawing from, aims to keep average post-industrial global temperatures well below 2 degrees Celsius, and preferably to 1.5 degrees Celsius.

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A spike of 1.5 degrees Celsius was linked to an annual estimated 1,601 additional deaths as a result of injuries across the country, while a rise of over at least 2 degrees Celsius was linked to 2,135 extra deaths per year.

In a commentary on the paper also published in the journal *Nature Medicine*, a pair of scientists not involved in the study wrote that it is important to note that other variables of weather which are linked to injuries like rain, humidity, sunshine, and wind "may act in their own right while also interacting with temperature, although not necessarily in consistent or predictable fashions."

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and climate change on deaths from infectious and non-communicable diseases. But less is known about how warm temperatures impact injuries.

Parks said he was "particularly surprised at how consistent the association between anomalously warm temperatures and suicide/assault deaths."

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He said: "One might label increasing numbers of injury deaths from rising temperatures as a hidden public health burden of climate change."

Asked what underlies the findings, he said: "drownings are plausibly linked with anomalously warm temperatures because swimming is more likely in periods of warm weather. Transport accidents are also linked because driving performance deteriorates at higher temperatures, due to decreased visual acuity as well as increased alcohol consumption.

"Increases in assaults may be due to increasing anger levels and more time spent outdoors interacting with other people during warmer weather. Reasons for increased suicide deaths are not well-established and warrant further investigation," he said.

Parks urged people to be considerate of others during hot weather. "Someone who appears to be OK (at least physically) may not actually be. They may be suffering on the inside," he said.

"So, look out for and check in on each other, build a sense of community wherever you are! It could make a difference to someone's health and well-being, both inside and out."

Chiming with the authors of the commentary, Parks said it would have been interesting to investigate the impacts by country "as variations in risk may be due to local variations in socioeconomic and environmental factors, as well as infrastructure or health and social services available."

Parks said he hopes the work will shape policies responding to climate change.

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He added: "The need for climate change mitigation underpins all of this action, and large-scale structural changes will provide that opportunity for mitigation, while also reducing the vulnerability of particular groups to injury deaths."

A heat danger warning sign on July 14, 2013 in Death Valley National Park, California.

DAVID MCNEW/GETTY IMAGES

### **Additional deaths which may be caused by a 2 degree Celsius by state, (rounded to the nearest 5)**

Alabama 55  
Arizona 55  
Arkansas 30  
California 230  
Colorado 40  
Connecticut 15  
Delaware 5  
District of Columbia 5  
Florida 160  
Georgia 80  
Idaho 15  
Illinois 75  
Indiana 50  
Iowa 20  
Kansas 25  
Kentucky 40  
Louisiana 50  
Maine 10  
Maryland 35  
Massachusetts 20  
Michigan 60  
Minnesota 20  
Mississippi 35  
Missouri 55

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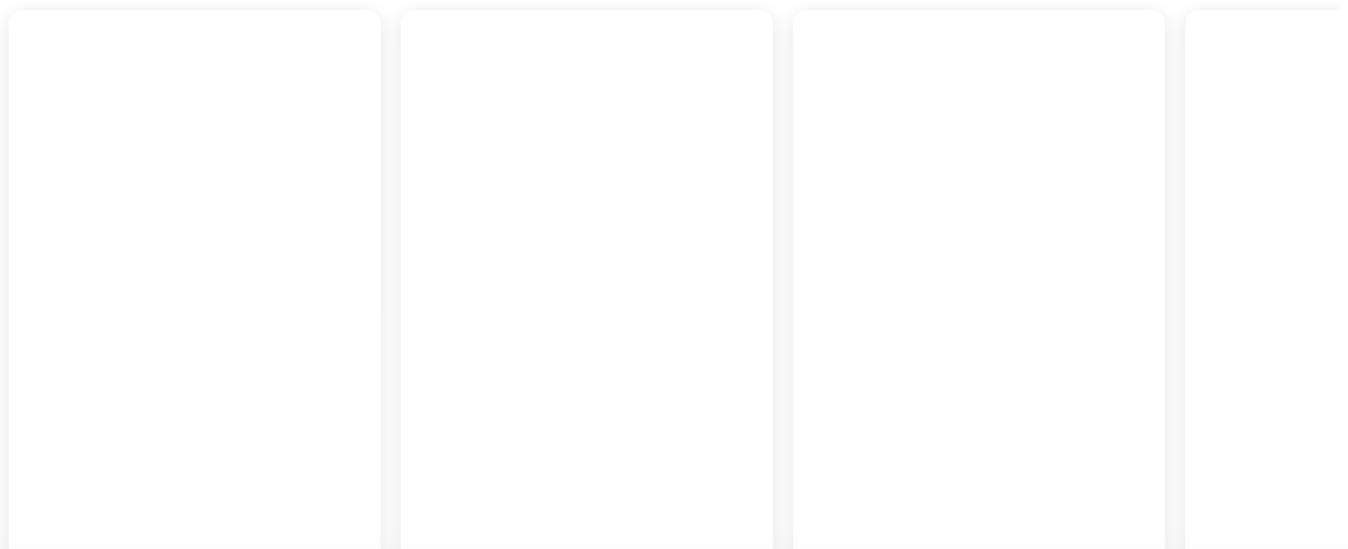
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New York 65  
North Carolina 75  
North Dakota 5  
Ohio 70  
Oklahoma 35  
Oregon 25  
Pennsylvania 70  
Rhode Island 5  
South Carolina 50  
South Dakota 5  
Tennessee 55  
Texas 205  
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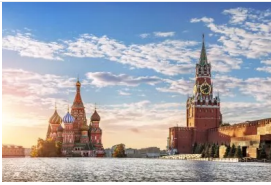
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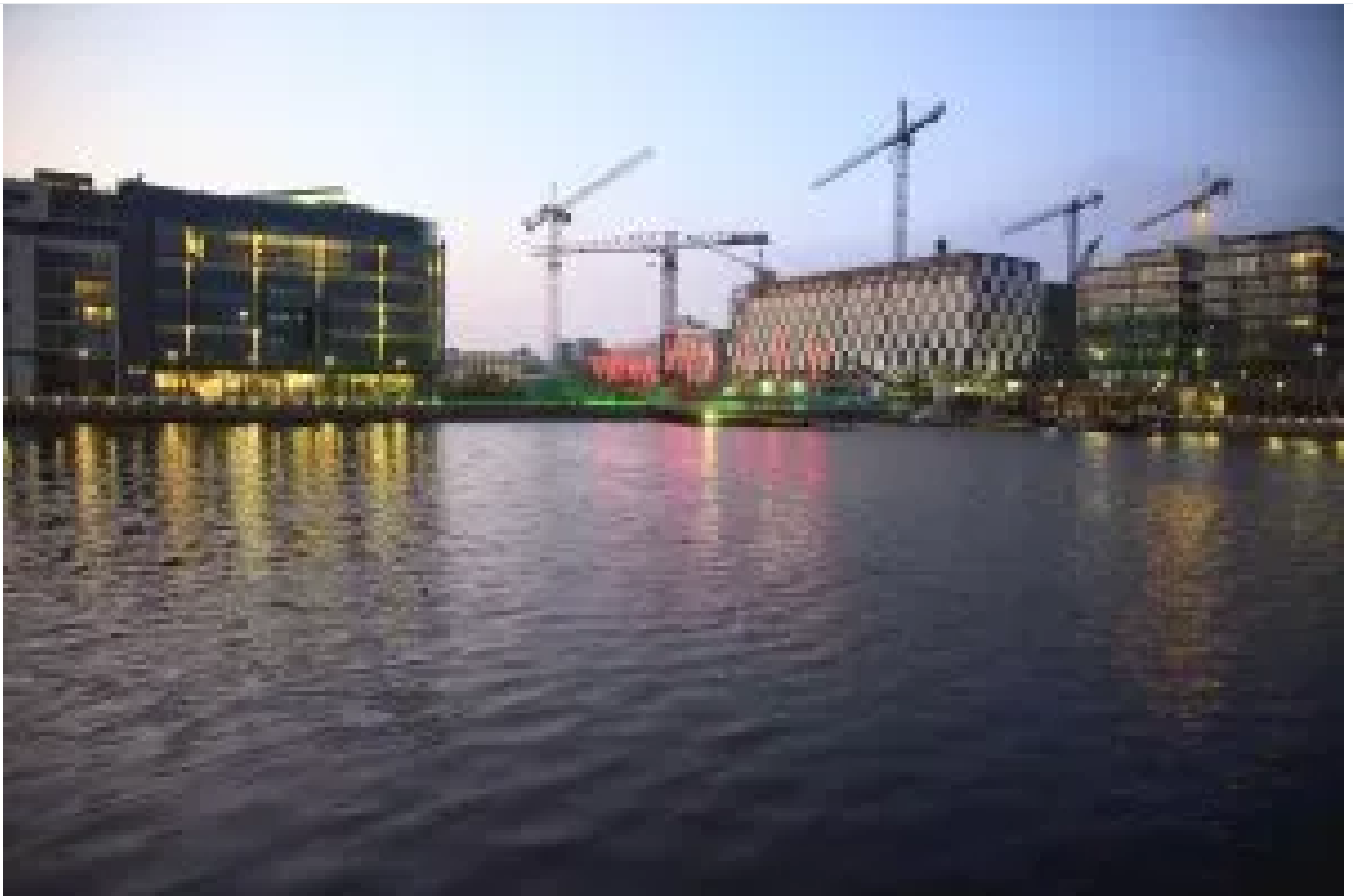
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The man, who has yet to be identified, was sleeping inside his tent when workers tried to remove it.

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The billionaire primary candidate was compared to a waiter bringing mozzarella sticks to a couple during a break-up conversation.

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"The purple lights are always there but don't usually light up the sky like this," said employee Cara Smith.

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