

CDC's Efforts in Climate Change Adaptation for the Public Health Sector



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Health Effects of Climate Change - Direct

Climate Impacts

Heat waves will become more intense and frequent

Stagnant Air Masses, Air Pollution

Heavy precipitation events will become more frequent

Direct Health Effects

Heat stress, cardiovascular disease

Asthma, respiratory illness, cardiovascular disease

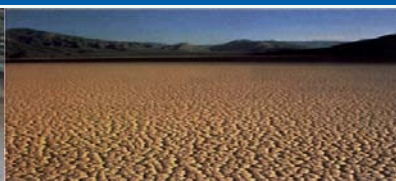
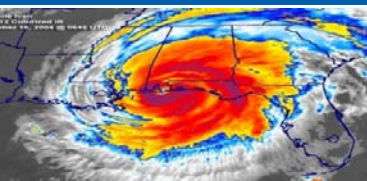
Drowning, direct injury

Adaptation

Identify susceptible populations; heat wave response plans

Vulnerability mapping, disaster preparedness, enhanced surveillance, health communication

Enhanced surveillance, health communication,



Health Effects of Climate Change - Indirect

Climate Impacts

Temperature and precipitation effects on key ecosystem parameters

Heavy precipitation events will become more frequent

Increase in areas affected by drought

Indirect Health Effects

Impacts on vector-borne and zoonotic disease [Malaria, dengue, encephalitis, hantavirus, Rift Valley fever]

Impacts on water-borne diseases, harmful algal blooms, exposure to toxins/runoff [Cholera, cryptosporidiosis, campylobacter, leptospirosis]

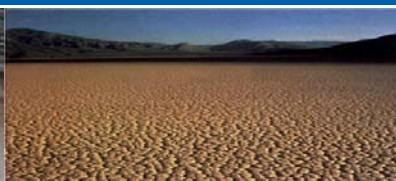
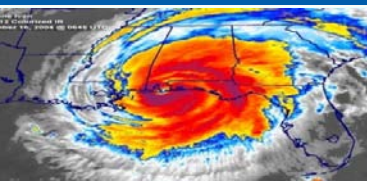
Changes in food sources, malnutrition, forced migration

Adaptation

Enhanced surveillance, vector control measures, disease modeling

Vulnerability mapping, disaster preparedness,

Drought early warning systems, resource conservation, food security monitoring

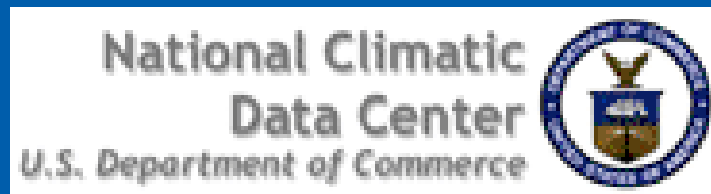


Analyze and translate climate science to our public health partners

Identify the health impacts of climate change and the populations most vulnerable to these impacts

Identify regional climate trends that impact health

Integrate health surveillance data with weather and climate data

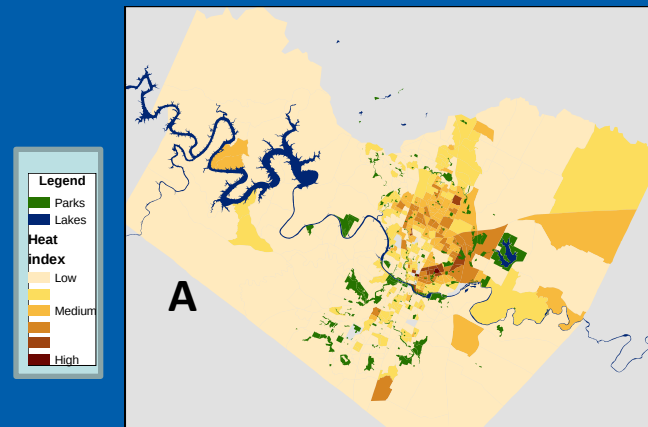
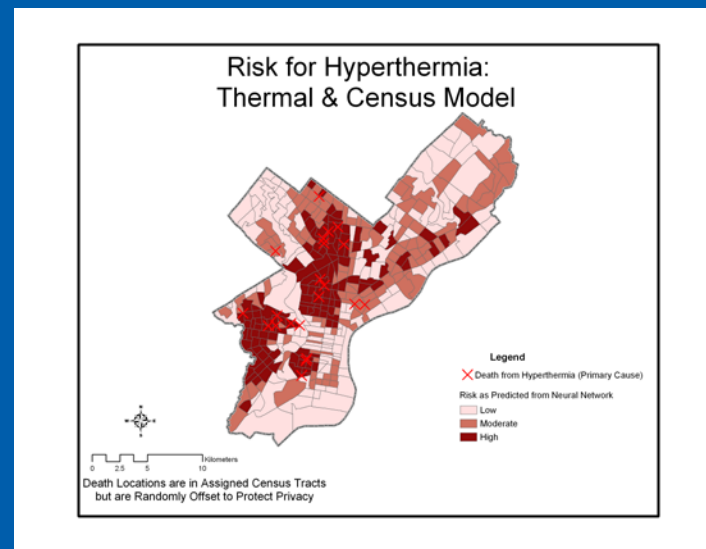


Develop decision support tools to aid in the public health response

Vulnerability maps

Surveillance tools

Adaptation planning

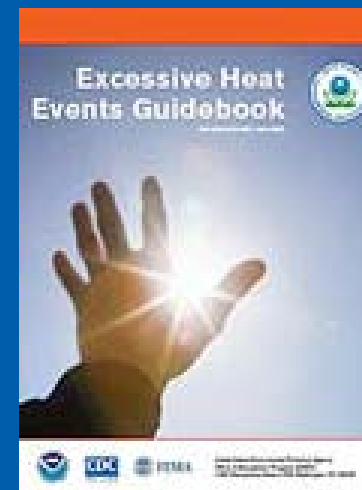


Provide leadership and foster collaboration

Ensure that public health is represented in climate change adaptation strategies



Create linkages between public health and efforts in other sectors



Provide assistance to state/local health agencies in their efforts to identify and prioritize climate impacts on health

