

Severe Weather Surveillance using Syndromic Surveillance

3:45PM EST | November 17th, 2021 | 2021 SyS Symposium

Moderator:

Lakshmi Radhakrishnan, MPH – CDC/NSSP

Panelists:

Fatema Mamou, MPH – Michigan Department of Health and Human Services

Natasha Close - Washington State Department of Health

Paul Schramm - National Center for Environmental Health, CDC

Zachary Stein - ICF International



Council of State and Territorial Epidemiologists



MONITORING SEVERE WEATHER CONDITIONS USING SYNDROMIC SURVEILLANCE

Roundtable

Lakshmi Radhakrishnan, Center for Surveillance, Epidemiology, and Laboratory Services, CDC

Natasha Close, Washington State Department of Health

Fatema Mamou, Michigan Department of Health and Human Services

Paul Schramm, National Center for Environmental Health, CDC

Zachary Stein, ICF International

What are some severe weather events that you monitored using syndromic surveillance?



CDC's Heat & Health Tracker

CDC
CENTERS FOR DISEASE
CONTROL AND PREVENTION

Climate
& Health
Program

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Heat & Health Tracker

Extreme heat events have long threatened public health in the United States. The CDC Heat & Health Tracker provides local heat and health information so communities can better prepare for and respond to extreme heat events. Use the search on the right to explore how extreme heat affects your county, populations who are at risk, and response resources.

[Search for location here](#)

Enter zip or county here



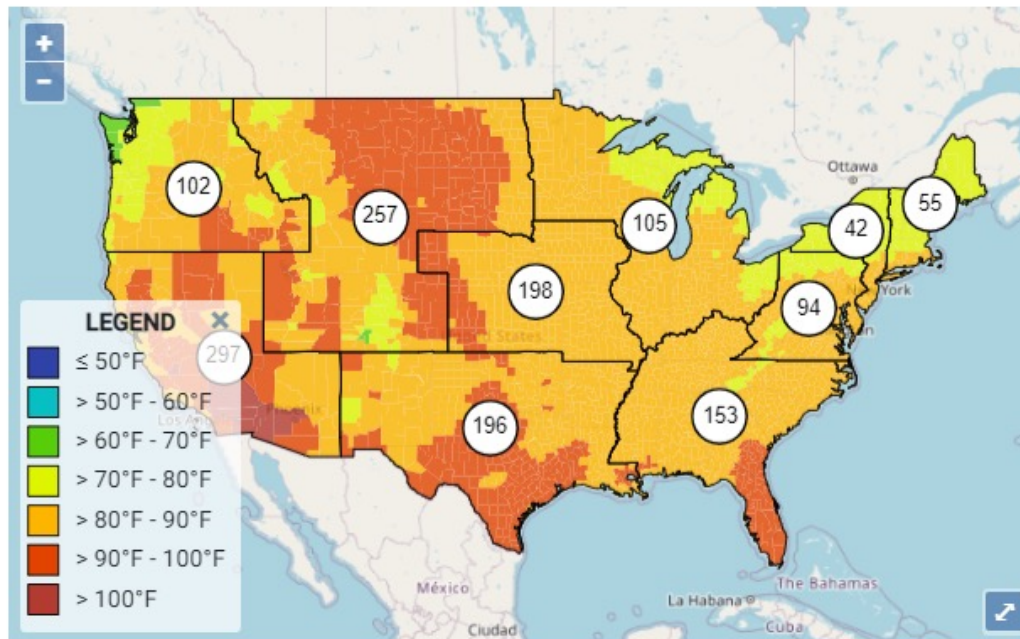
Historical

Current

Heat-Related Illness

Monthly Forecast

Projected



Year

2021

Week

07/18/2021 - 07/24/2021

About the Data

The Heat-Related Illness and Temperature map shows the rate of emergency department (ED) visits associated with heat-related illness (HRI) per 100,000 ED visits by region (as defined by Health and Human Services) for the selected week using data available through the [National Syndromic Surveillance Program](#). The colors on the map show average maximum temperature by county for the same week, using data from the National Center for Environmental Information.

[\(more info\)](#)

- Health and Human Services Region syndromic surveillance data (heat-related emergency department visits)

- Historic, current, and future temperatures

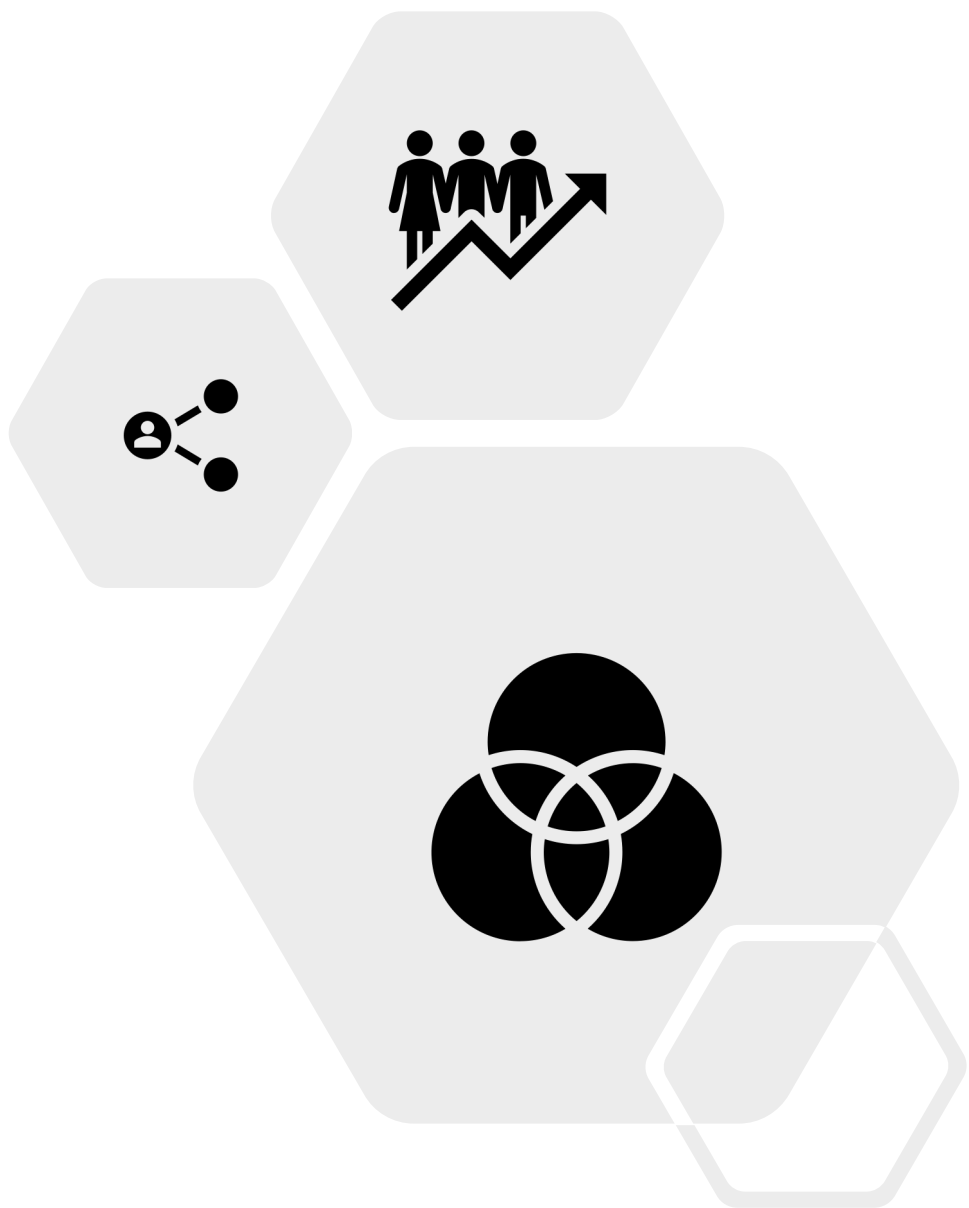
- Resources to prepare and respond

- SOURCE:
<https://ephtracking.cdc.gov/Applications/heatTracker/>



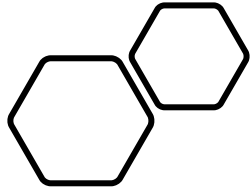
Have you collaborated with neighboring state
partners during severe weather events?

Any challenges to sharing data?



What are some organizations that you share data with or receive data from during a severe weather emergency?

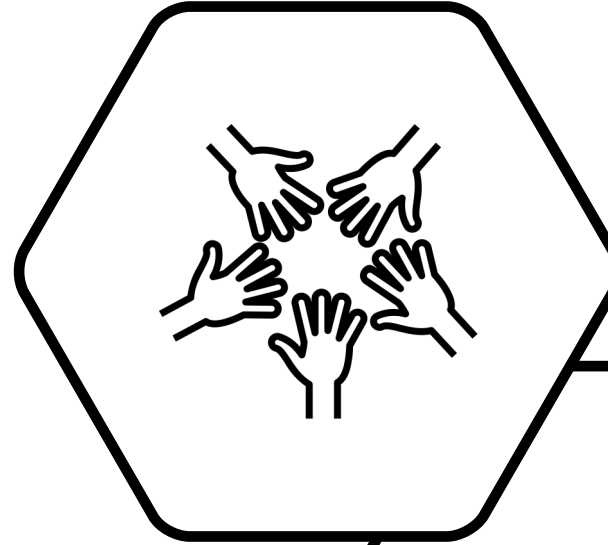
Any challenges encountered in cross-agency collaborations?



Describe how you use ESSENCE for severe weather surveillance?

What are some recent CDC-NSSP-CSTE collaborations on severe weather surveillance?

What are some CDC programs and resources for severe weather surveillance?

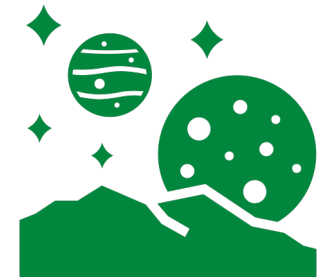


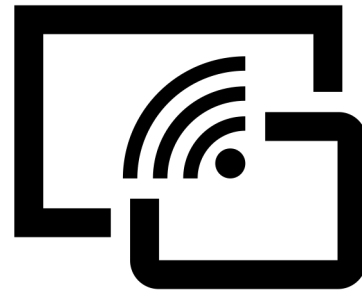
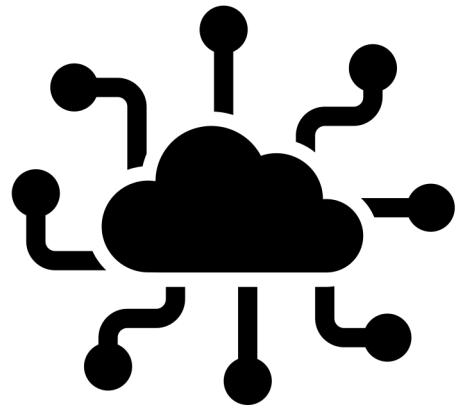
Heat & Health Tracker

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What are some gaps in our existing
environmental ESSENCE syndrome
definitions?

Where can we go next?





What are some non-syndromic data sources you use for weather-related surveillance?

A background image showing a network of white human figures connected by thin black lines on a dark blue surface. The figures are arranged in a circular pattern, with lines radiating from a central point to each figure, and additional lines connecting some of the figures to each other, forming a web-like structure.

How can users connect with
environmental health
surveillance resources?

Severe Weather Surveillance Resources

Resources for Extreme Weather Surveillance:

- ❖ **NSSP Workspace on Slack:**
https://cste.co1.qualtrics.com/jfe/form/SV_721loa5BmlANKS1
- ❖ **NSSP resources for severe weather surveillance:** [Technical Updates August 2021 | CDC](#)
- ❖ **Assistant Secretary for Preparedness and Response** (Girum Ejigu, kwa7@cdc.gov)

NSSP ESSENCE Tabs:

- ❖ **Winter Storms, Hurricanes and Tropical Storms** (Abigail Gates, ovh4@cdc.gov)
- ❖ **ESSENCE library has several pre-created, ready-to-use, downloadable tabs made by state and local partners:**
 - **Cold weather (environmental)** – Natasha Close (Natasha.Close@DOH.WA.GOV)
 - **Flood v1** – Natasha Close (Natasha.Close@DOH.WA.GOV)
 - **HRI** – Kacey Potis (kacey.potis@doh.wa.gov)
 - **KS Weather** – Comprehensive) – Gabe Haas (Gabe.Haas@ks.gov)
 - **KS – Injury and Trauma Com** – Gabe Haas (Gabe.Haas@ks.gov)
 - **KS VBD & Insect/Animal Bites** – Gabe Haas (Gabe.Haas@ks.gov)

Points of contact from CDC's National Center for Environmental Health:

- ❖ **Climate change:** Paul Schramm (imw3@cdc.gov)
- ❖ **Extreme Heat:** Rish Vaidyanathan (dvq3@cdc.gov)
- ❖ **Wildfire:** Maria Mirabelli (zif7@cdc.gov)
- ❖ **Heat and Health Tracker:** Emily Prezzato (laq7@cdc.gov)
- ❖ **Flooding:** Arie Manangan (mqa2@cdc.gov)
- ❖ **Disaster epidemiology:** Amy Schnall (gh5@cdc.gov)
- ❖ **Algal Blooms:** Amy Lavery (nqz6@cdc.gov)
- ❖ **Asthma:** Kanta Sircar (dqq0@cdc.gov)

CSTE Workgroups and Subcommittees:

- ❖ **Syndromic Surveillance and Public Health Emergency Preparedness, Response and Recovery Subcommittee** (SPHERR; Fatema Mamou - mamouf@michigan.gov; William Smith - william.smith@maricopa.gov)
- ❖ **Disaster Epidemiology Subcommittee** (Andrew Adams - aadams@cste.org)
- ❖ **Climate, Health, and Equity Subcommittee** (Jason Vargo - Jason.Vargo@cdph.ca.gov; Asante' Hilts - asante.hilts@dph.ga.gov)
- ❖ **Environmental Public Health Tracking ESSENCE Workgroup** (Laura Fox - Laura.Fox@azdhs.gov; Mikyong (Meekie) Shin - fgx6@cdc.gov)
- ❖ **Occupational Health Workgroup** (Marija Borjan - Marija.Borjan@doh.nj.gov)



Questions?

Contact: Lakshmi Radhakrishnan (kvg7@cdc.gov)

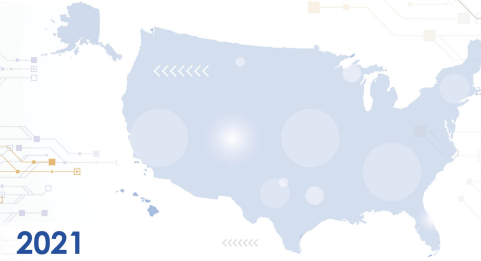
The findings and conclusions in this presentation are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.



National Syndromic Surveillance Program

Community of Practice

Resources that Advance the Science and
Practice of Syndromic Surveillance



2021

Syndromic Surveillance Symposium

Week of November 15, 2021



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CONSULTING