



TEXAS
Health and Human
Services

**Texas Department of State
Health Services**

Texas 2019-2022 Heat Activations

November 20th, 2023

Jia Benno, MPH

Injury Prevention Unit Director

Texas EMS and Trauma Registries

- The Emergency Medical Services and Trauma Registries (EMSTR) collects data from EMS providers, hospitals, justices of the peace, medical examiners, and rehabilitation facilities.
- EMS providers must report all runs to EMSTR under Texas Administrative Code, Title 25, Chapter 103. A run is a resulting action from a call for assistance where an EMS provider is dispatched to, responds to, provides care to, or transports a person.

Data Definitions



Heat Activations in Texas - To look at heat activations, EMSTR included patients where the primary symptom, provider's primary impression, or provider's secondary impression included heat stroke, effects of heat and light, heat exhaustion, heat fatigue, exposure to excessive heat, sunburn, and more.

Methodology Notes



- This report includes data from 2019-2022.
- Per epidemiology best practice, EMSTR suppressed data when there were less than 5 records to protect identifiable data, noted with an asterisk (*).
- EMSTR used three age groups for this analysis:
 - Pediatric – Children under the age of 15;
 - Adult – Ages 15-64; and
 - Geriatric – Ages 65+.

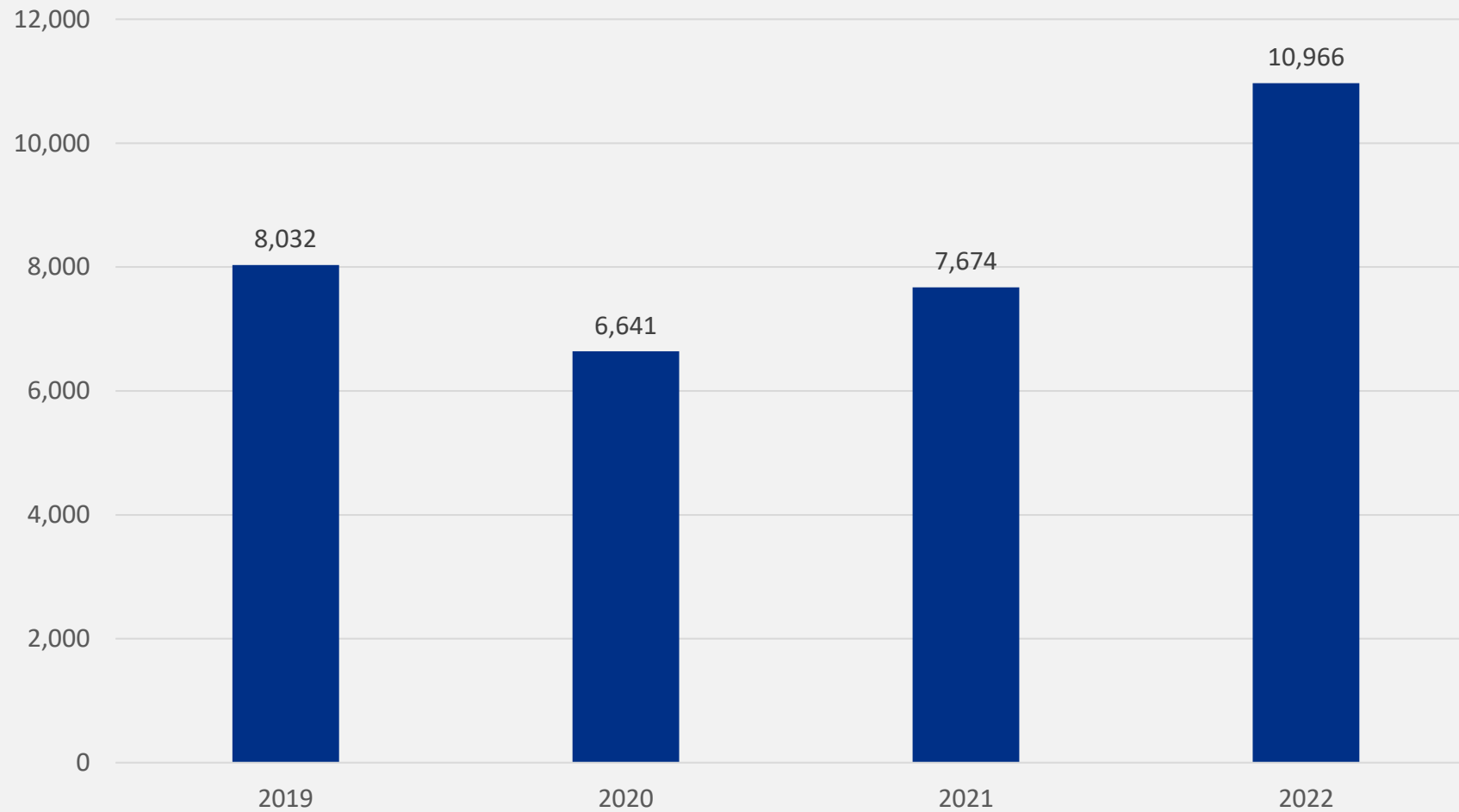
2019-2022 Heat Related Activations



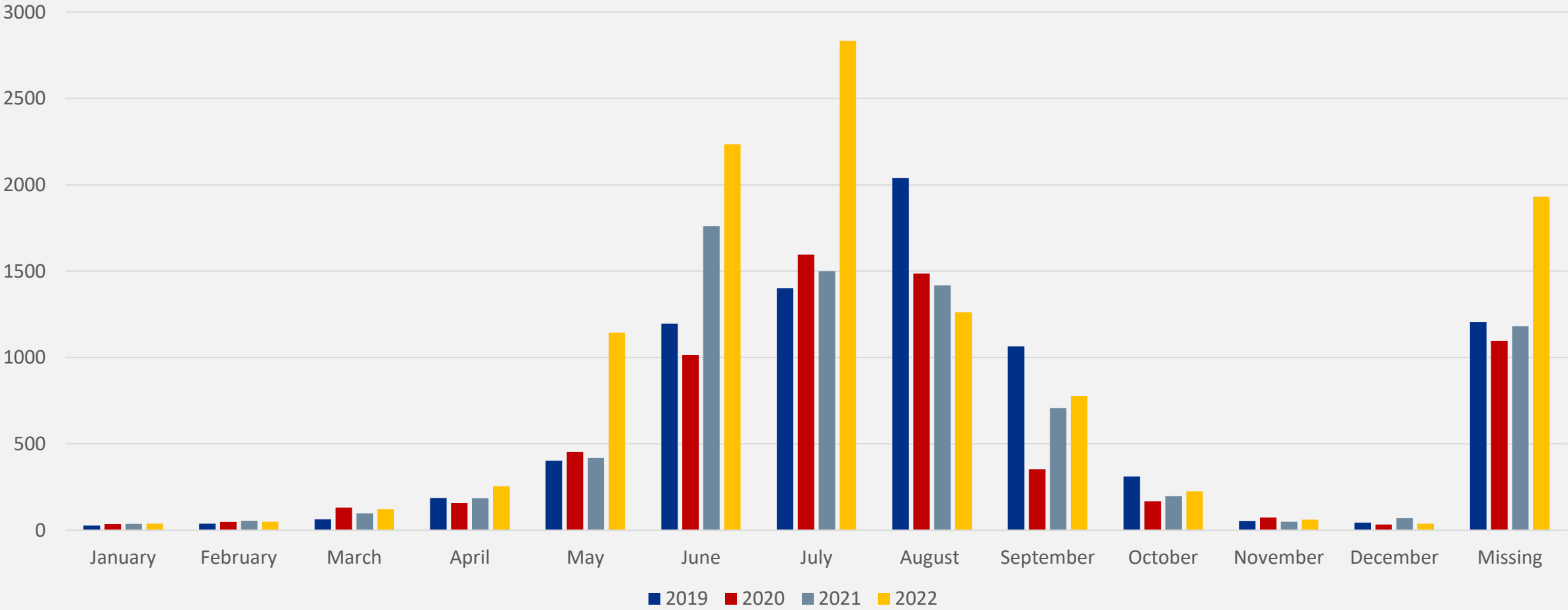
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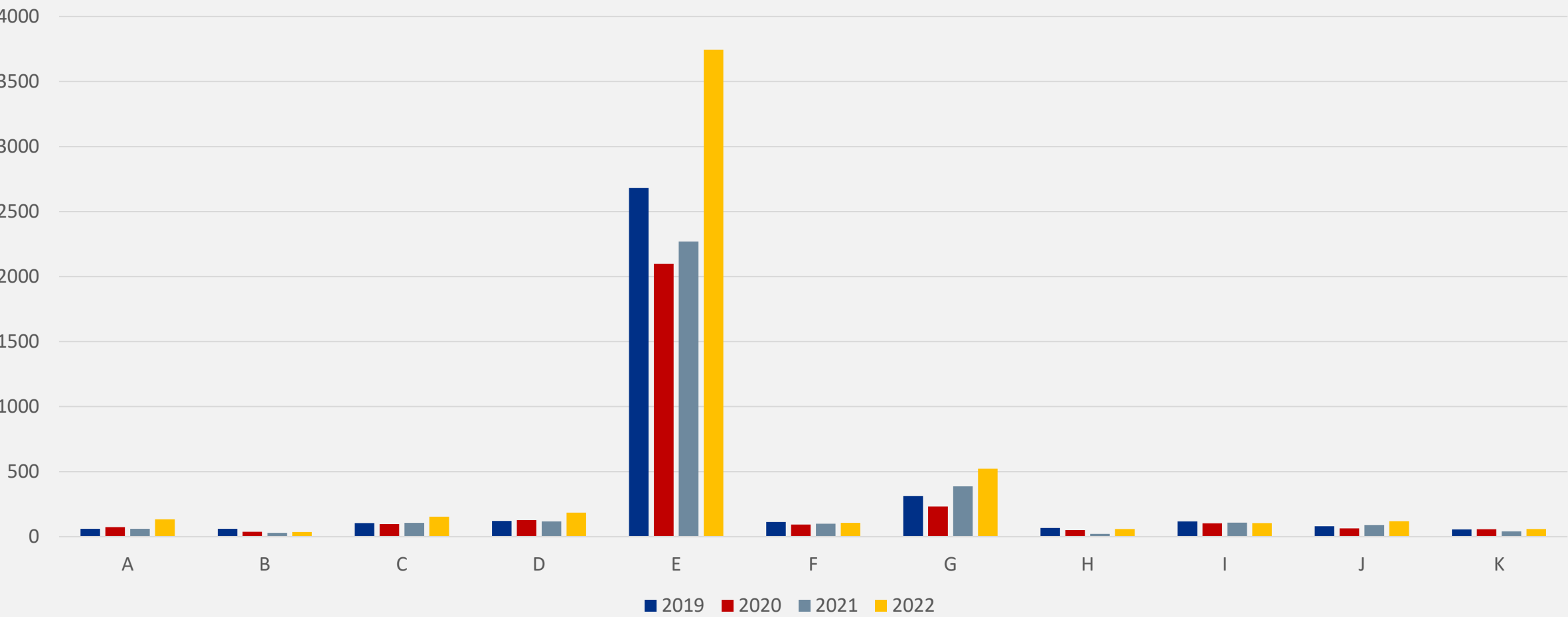
Heat Related Activations by Year



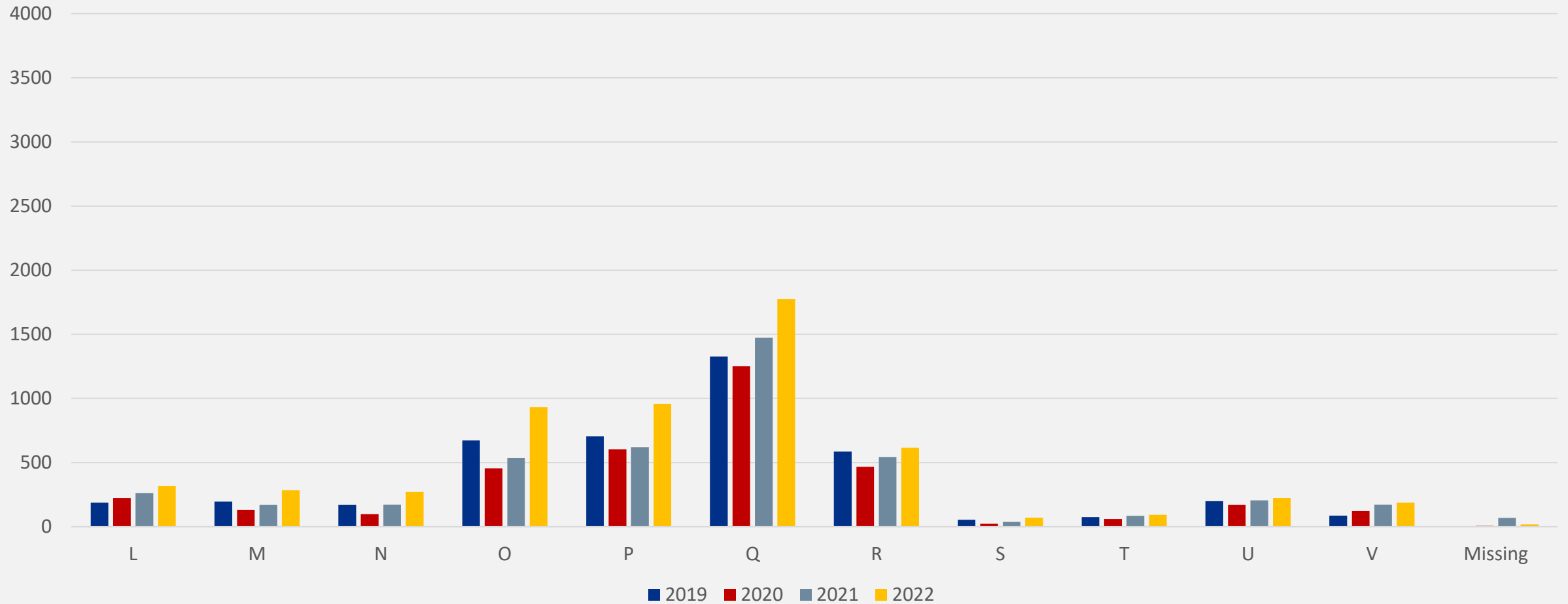
Heat Related Activations by Month



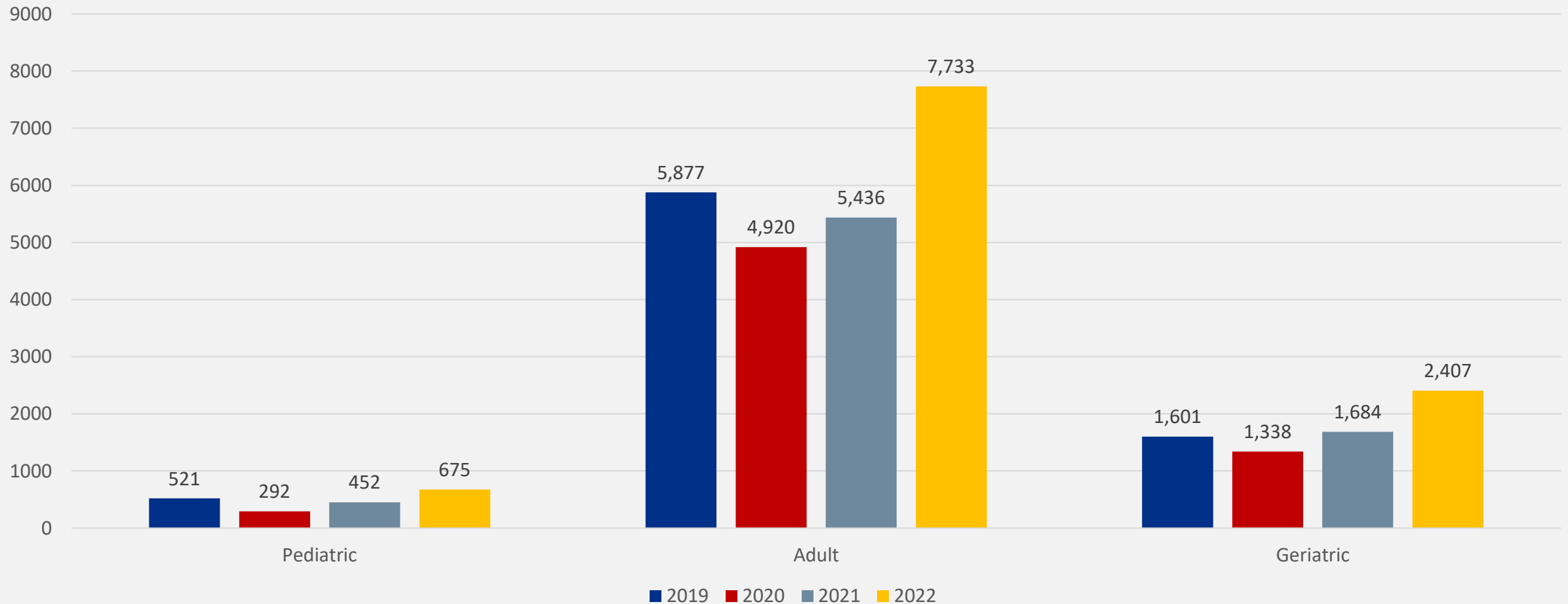
Heat Related Activations by Regional Advisory Council (RAC) (A-K)



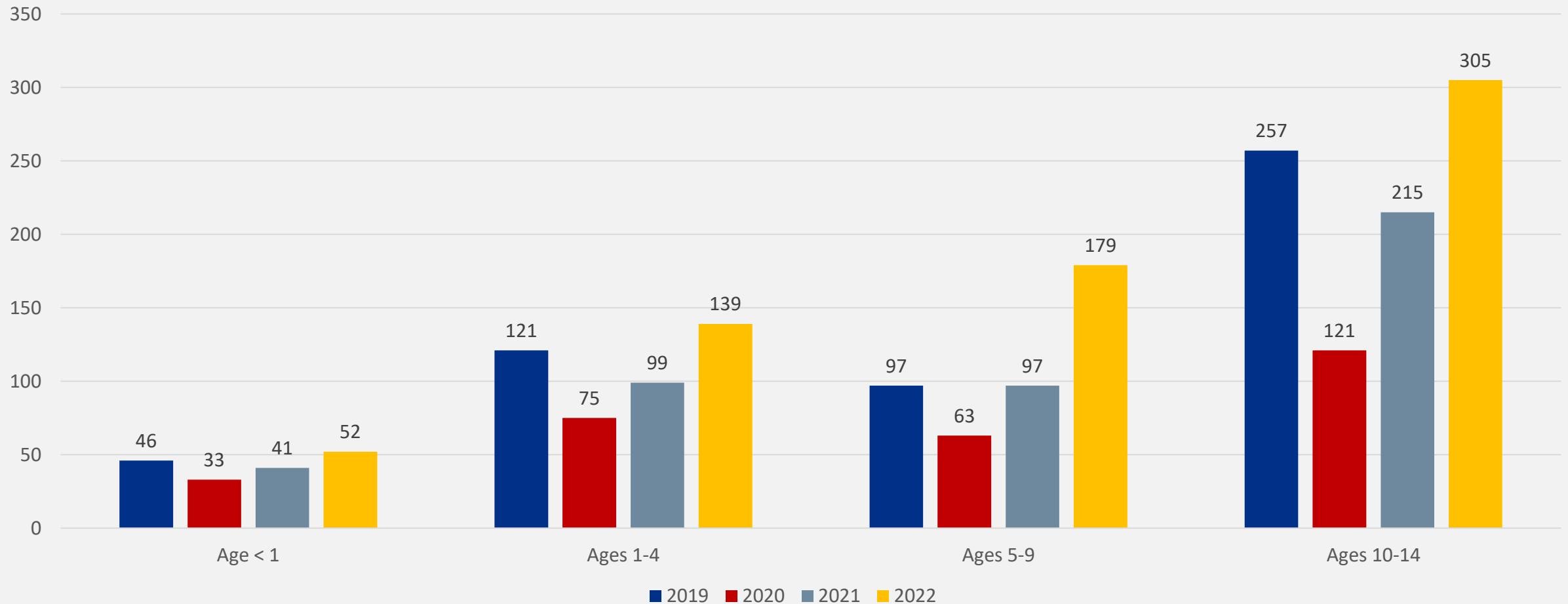
Heat Related Activations by RAC (L-V)



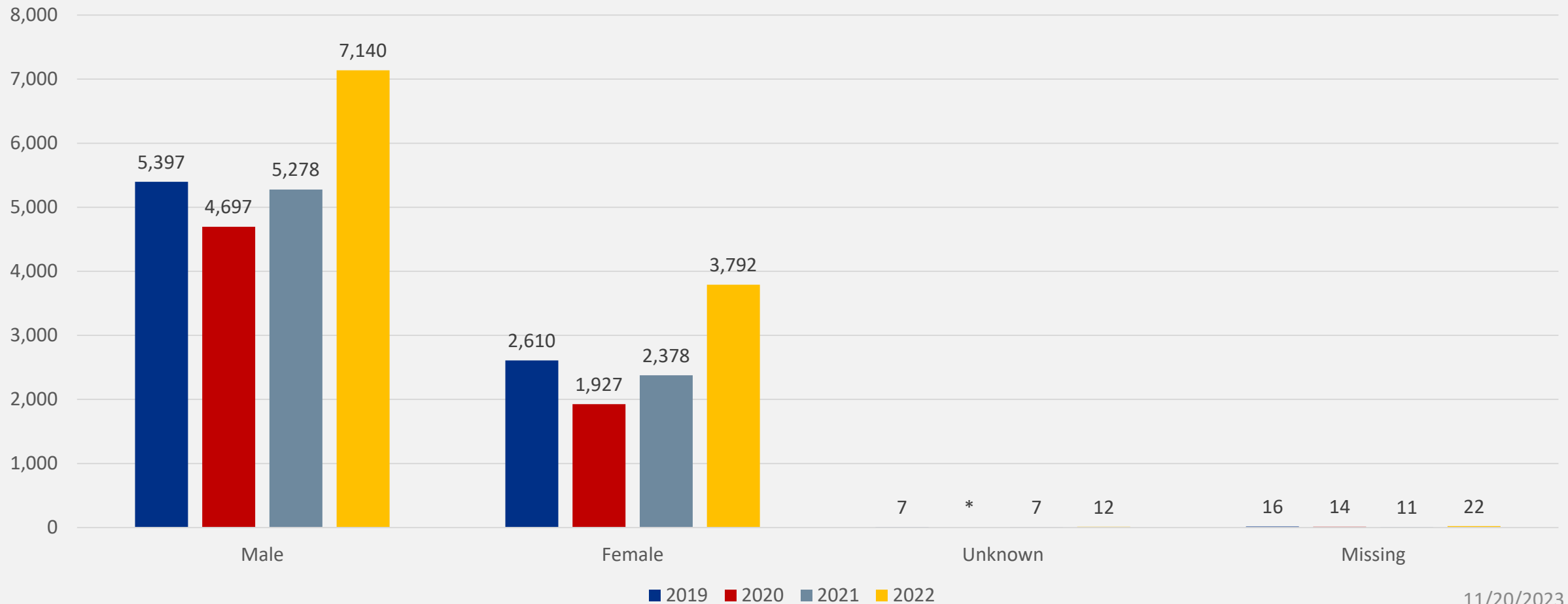
Heat Related Activations by Age Group



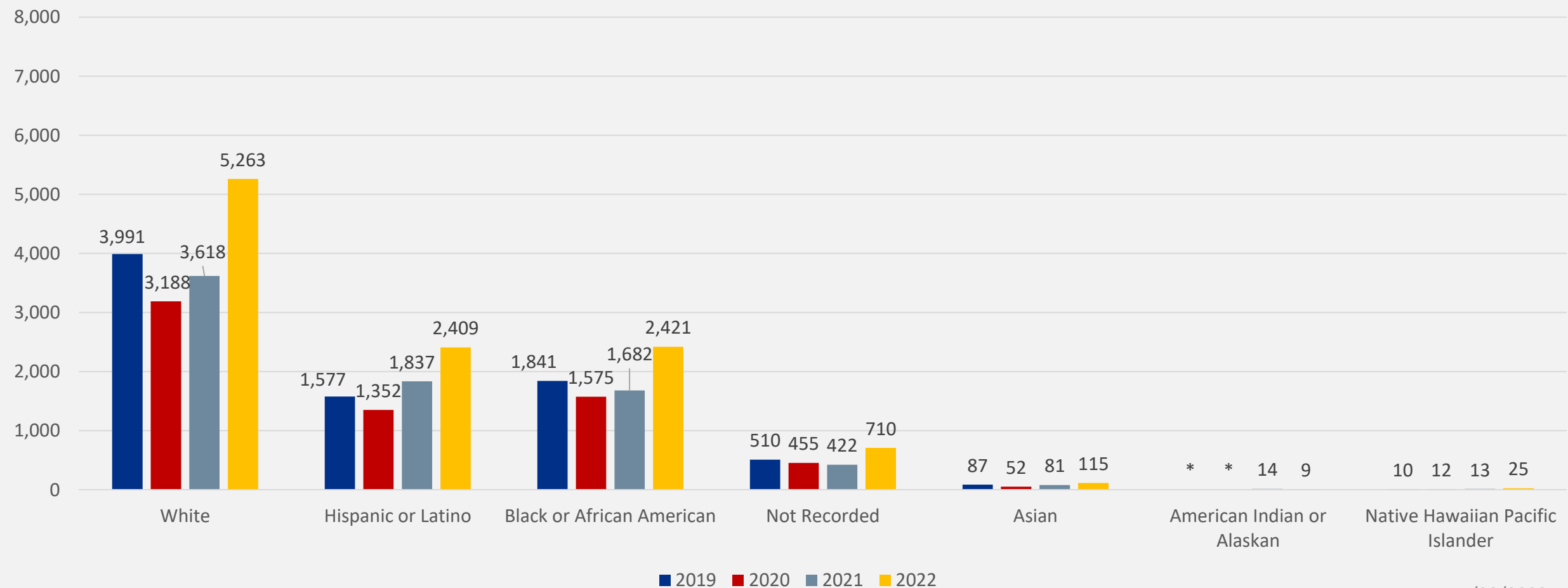
Heat Related Activations for Pediatrics



Heat Related Activations by Sex

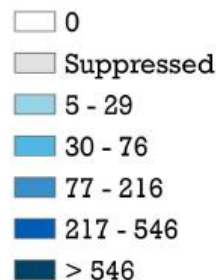


Heat Related Activations by Race and Ethnicity

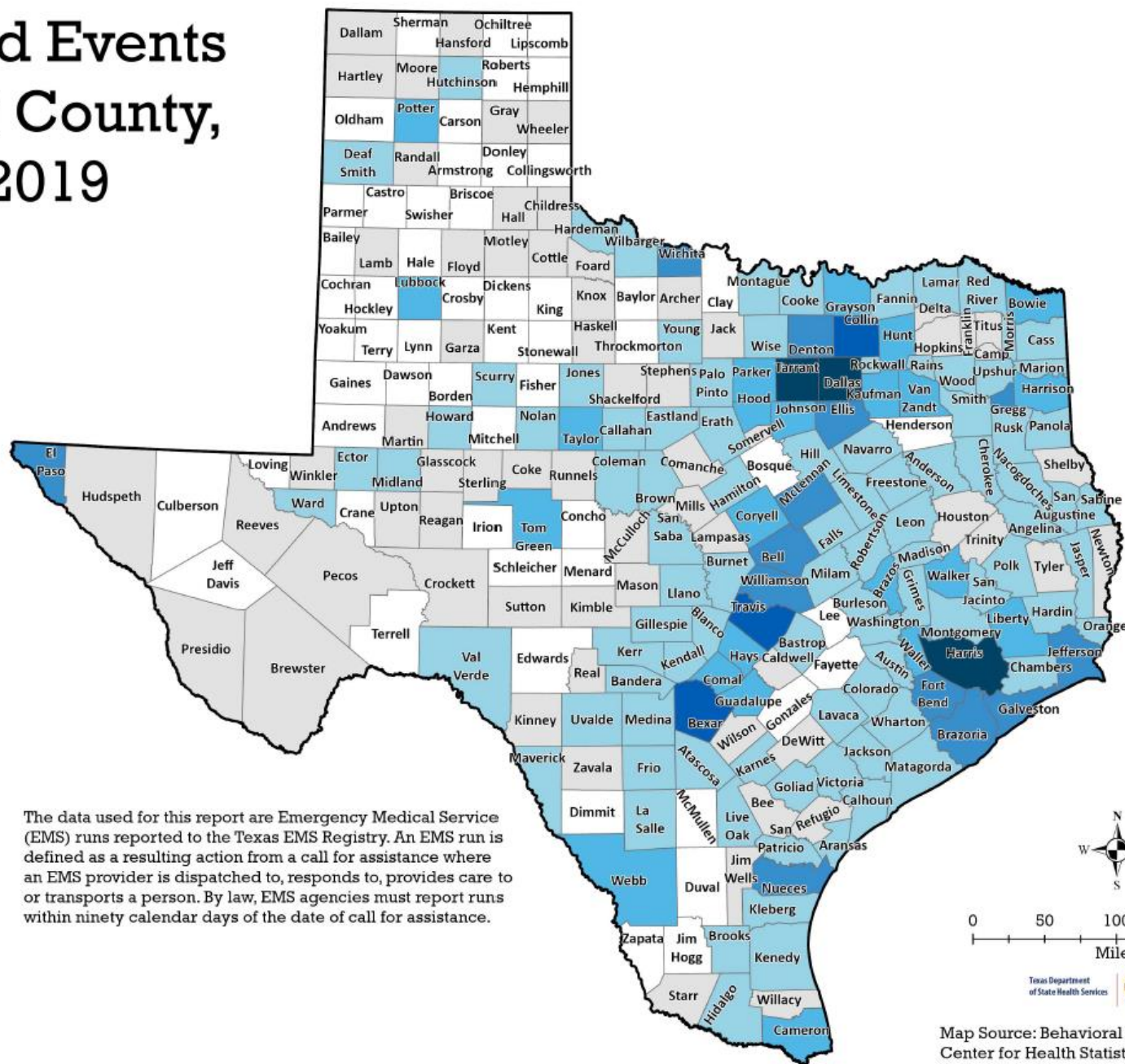


Heat Related Events by Incident County, Texas, 2019

**Heat Related Events by Incident
County, Texas, 2019 (N=7,623)**



The data used for this report are Emergency Medical Service (EMS) runs reported to the Texas EMS Registry. An EMS run is defined as a resulting action from a call for assistance where an EMS provider is dispatched to, responds to, provides care to or transports a person. By law, EMS agencies must report runs within ninety calendar days of the date of call for assistance.



0 50 100 200
Miles

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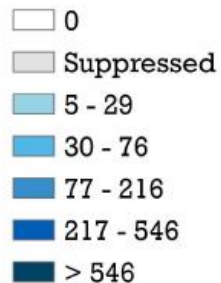


Map Source: Behavioral Health Services,
Center for Health Statistics
Agency Analytics Unit, GIS Team, October 2023

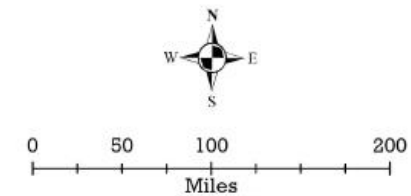
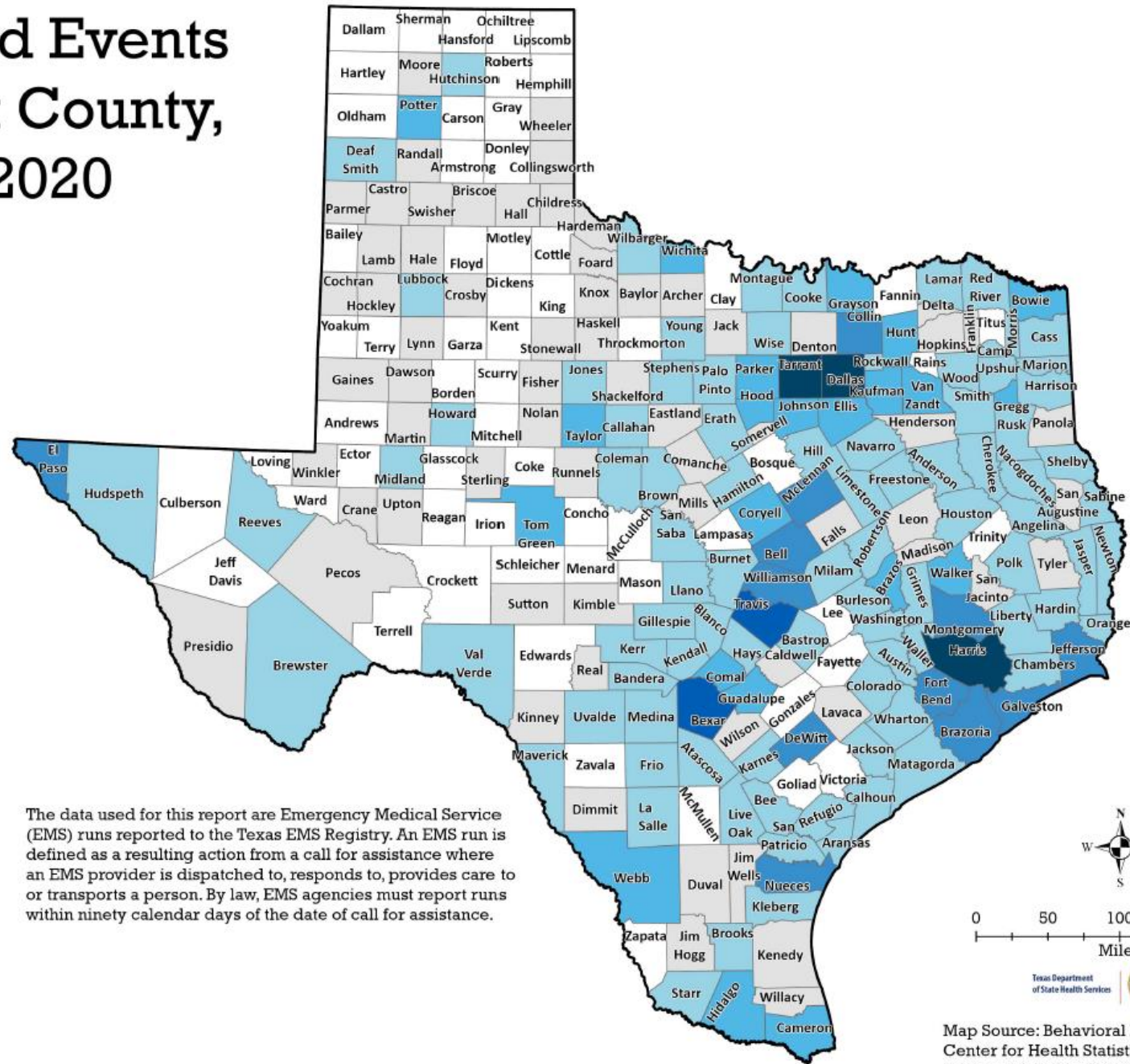
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Heat Related Events by Incident County, Texas, 2020

**Heat Related Events by Incident
County, Texas, 2020 (N=6,641)**



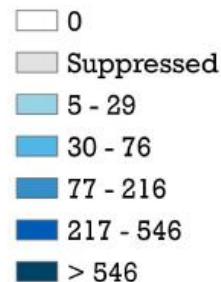
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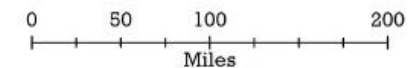
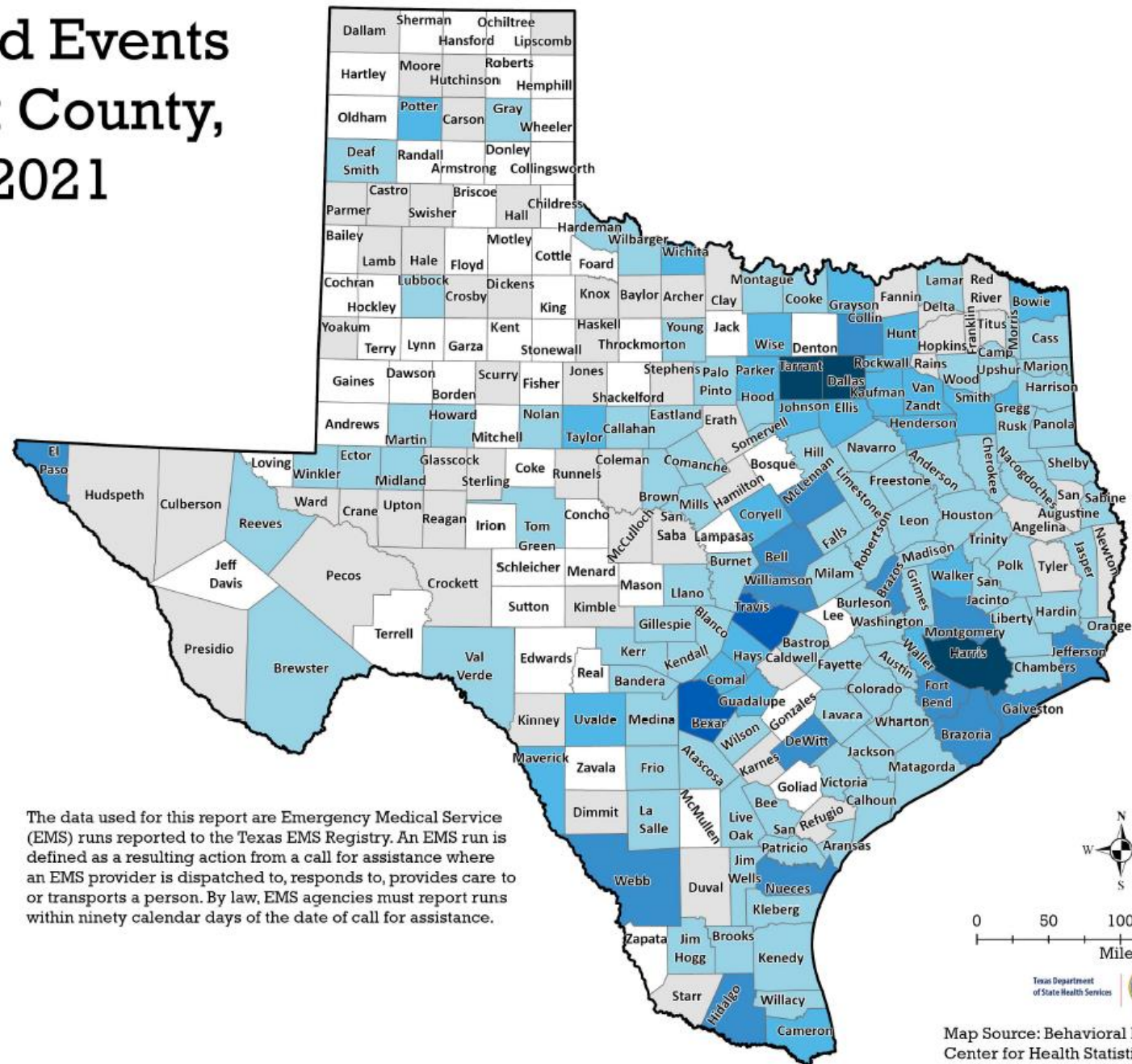
Map Source: Behavioral Health Services,
Center for Health Statistics
Agency Analytics Unit, GIS Team, October 2023

Heat Related Events by Incident County, Texas, 2021

**Heat Related Events by Incident
County, Texas, 2021 (N=7,674)**



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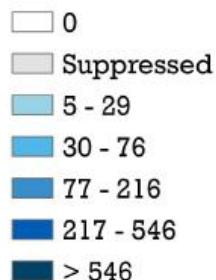
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of State Health Services



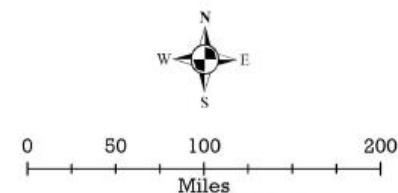
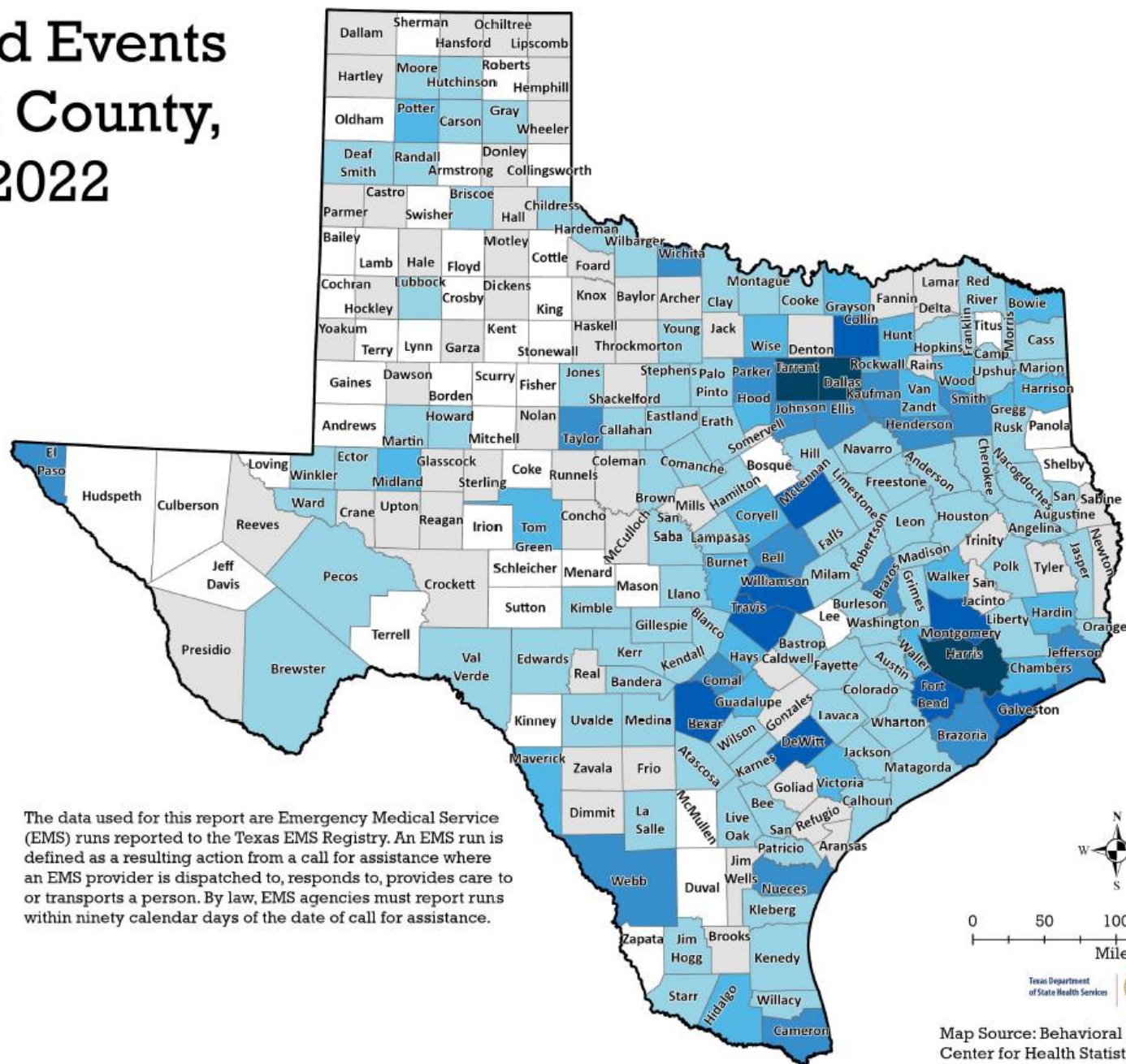
Map Source: Behavioral Health Services,
Center for Health Statistics
Agency Analytics Unit, GIS Team, October 2023

Heat Related Events by Incident County, Texas, 2022

**Heat Related Events by Incident
County, Texas, 2022 (N=10,966)**



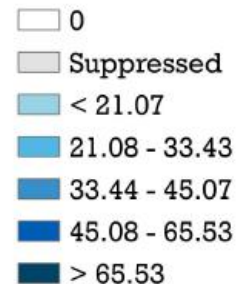
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Map Source: Behavioral Health Services,
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Agency Analytics Unit, GIS Team, October 2023

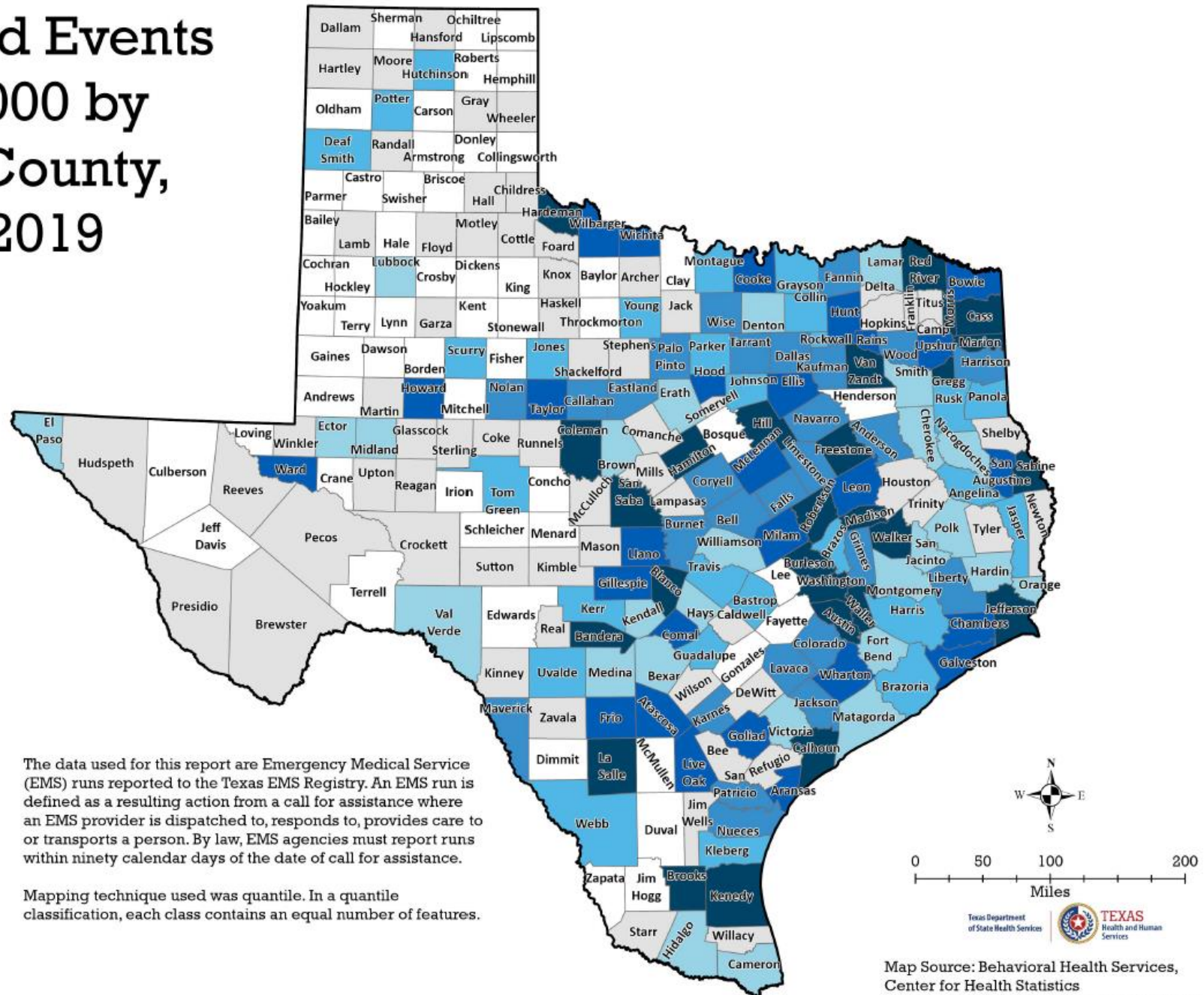
Heat Related Events per 100,000 by Incident County, Texas, 2019

Heat Related Events by Incident
County, Texas, 2019 (N=7,623)



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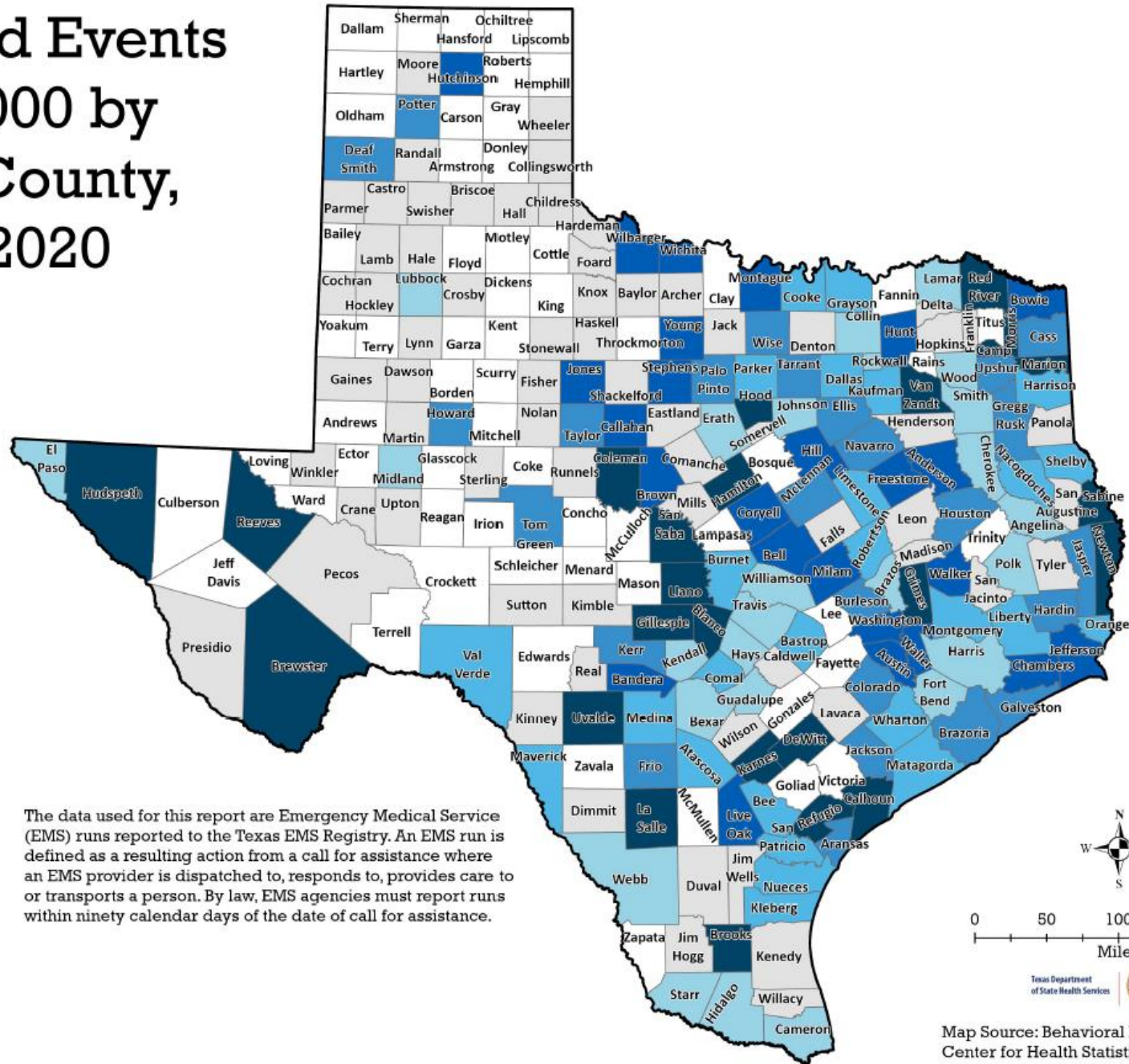
Mapping technique used was quantile. In a quantile classification, each class contains an equal number of features.



Map Source: Behavioral Health Services,
Center for Health Statistics
Agency Analytics Unit, GIS Team, October 2023

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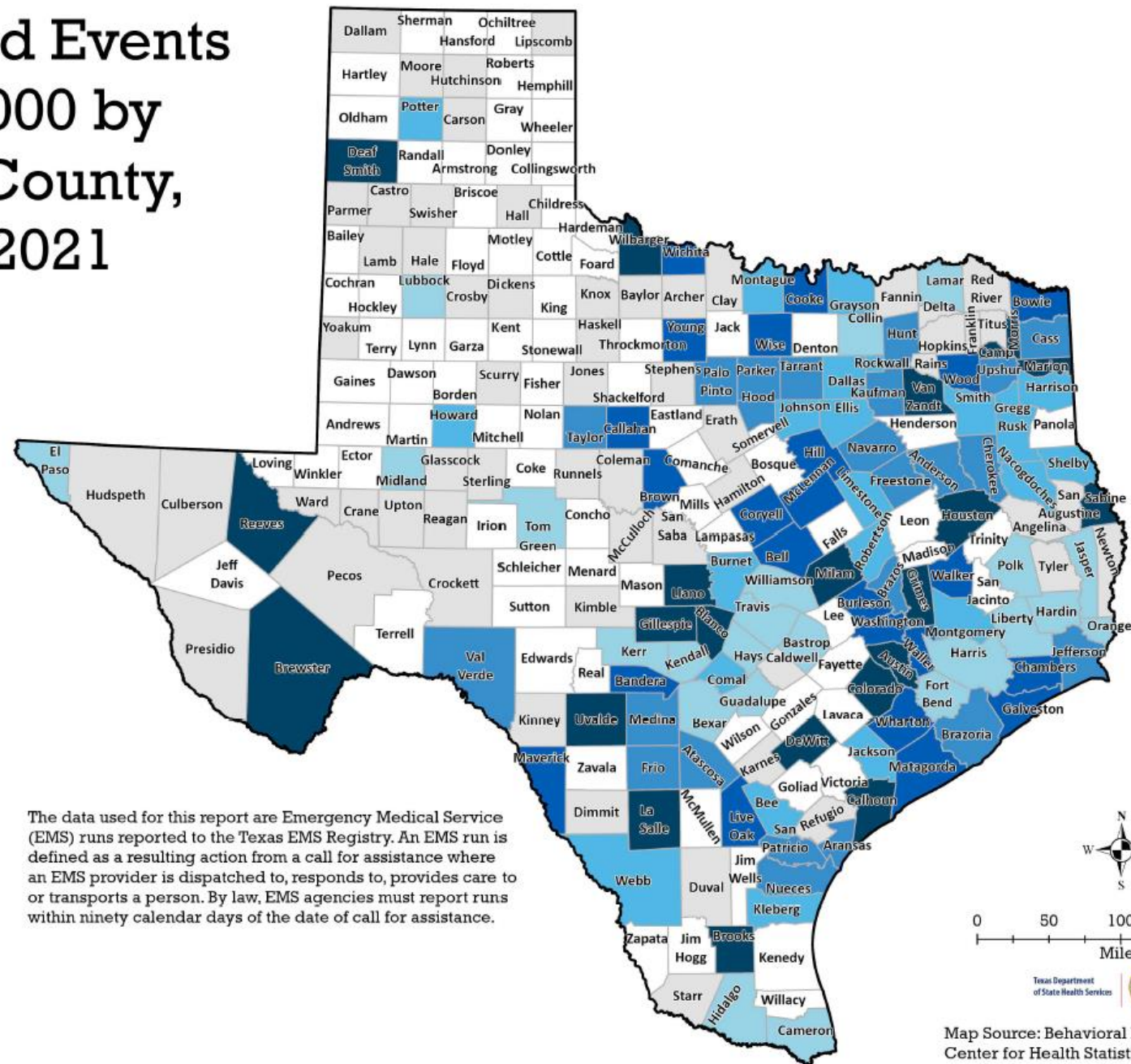
Heat Related Events per 100,000 by Incident County, Texas, 2020



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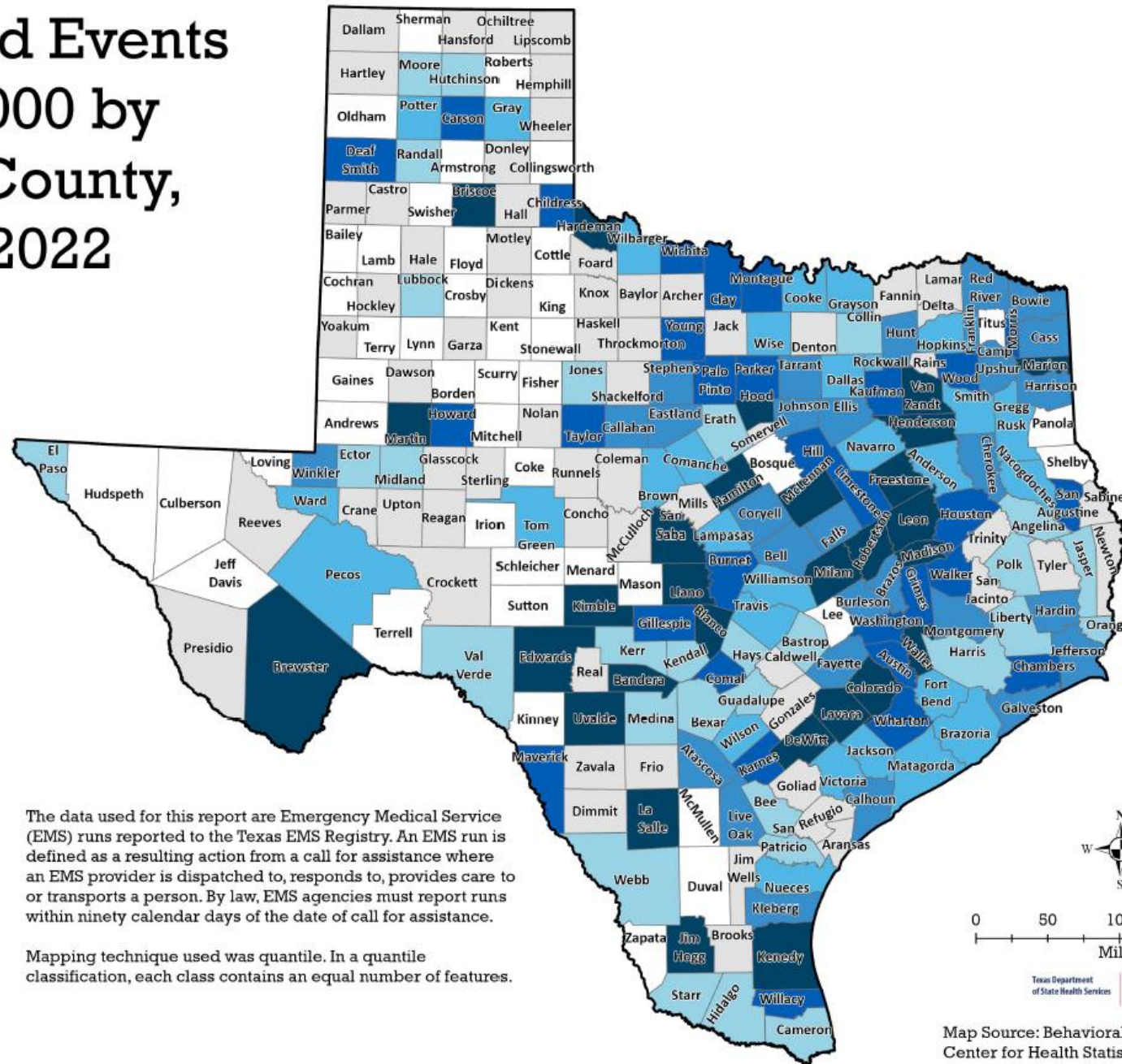
Heat Related Events per 100,000 by Incident County, Texas, 2021



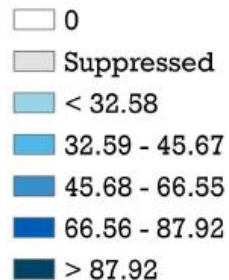
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Map Source: Behavioral Health Services,
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Agency Analytics Unit, GIS Team, October 2023

Heat Related Events per 100,000 by Incident County, Texas, 2022

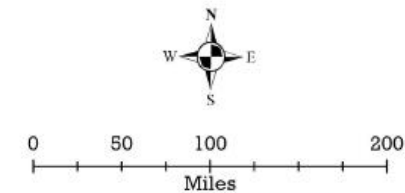


Heat Related Events by Incident
County, Texas, 2022 (N=10,966)



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Resources



- NEMSIS Heat activation dashboard - [Heat-Related EMS Activation Surveillance Dashboard – NEMSIS](#).
- NEMSIS Technical Resources and Data Dictionaries - <https://nemsis.org/technical-resources/version-3/version-3-data-dictionaries/>.

Thank you!

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injury.epi@dshs.texas.gov