

# North Carolina Statewide Annual Heat-related Illness Surveillance Report

May 1-September 30, 2025

NCDHHS Climate and Health Team



NC DEPARTMENT OF  
**HEALTH AND  
HUMAN SERVICES**  
Division of Public Health



## Statewide Key Messages

There were **5,748\*** emergency department (ED) visits for heat-related illness (HRI) in the **summer of 2025** with an average weekly rate of **2.4 visits per 100,000 people**. This is much higher than the five previous summers (2020 - 2024), when there was an average count of **3,798 HRI ED visits**, with an average weekly rate of **1.6 ED visits per 100,000 people**.

- The most frequent heat-related diagnosis code was **heat exhaustion (n = 1,932; 55.6%)** (Table 1)
- Heat stroke, the most severe diagnosis code for HRI, was **3.2%** of all visits with known severity in 2025 compared to **2.2%** of all visits from 2020-2024 (Table 1)
- There were at least **1,003 ED visits for workplace heat-related illness**, (17.4% of total heat-related illness ED visits)(Figure 1)
- The average weekly rate was highest among **males aged 25-44 years and 65+ years (4.3 per 100,000 population); males had a higher rate than females in all age groups** (Figure 2)
- The average weekly rate was highest among the **Black race category at 3.4 per 100,000 population** (Figure 5)
- The average weekly rate by ethnicity was highest among **non-Hispanic people at 2.4 per 100,000 population** (Figure 6)
- The average weekly rate of HRI ED visits was highest in the **Northeast (3.2 per 100,000 population)** (Figure 7a; Region 3)

\*The 5,748 total HRI ED visits includes 361 visits that were missing county of residence. These visits are excluded from the regional reports.

Table 1. Heat-related illness ED visits by Severity

Severity <sup>§</sup>	2025		2020-2024	
	Number (N=3,475 <sup>‡</sup> )	Percent <sup>†</sup>	Number (N=11,533 <sup>‡</sup> )	Percent <sup>†</sup>
Heat Stroke	112	3.2	255	2.2
Heat Exhaustion	1,932	55.6	7,048	61.1
Heat Syncope	396	11.4	1,394	12.1
Heat Cramps	86	2.5	475	4.1
Other Effects <sup>  </sup>	949	27.3	2,361	20.5

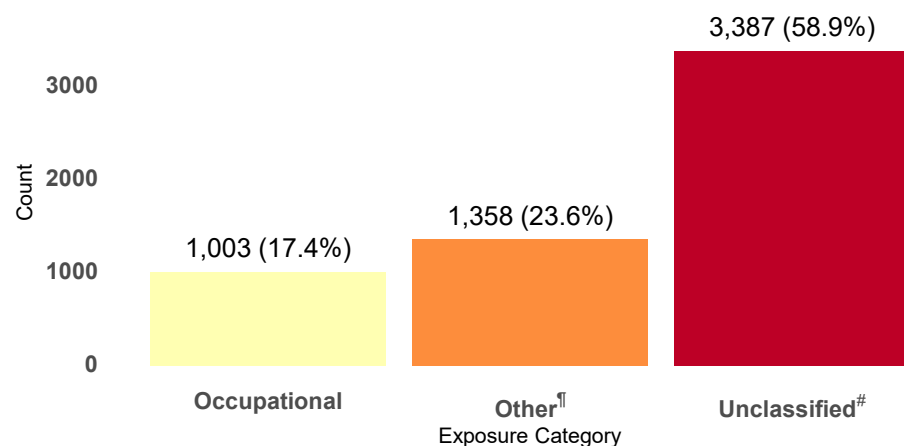
§ Definitions of heat-related illness severity categories: <https://www.cdc.gov/niosh/heat-stress/about/illnesses.html>

|| other effects include heat fatigue, heat edema, other effects of heat and light, and other effects unspecified

‡ Missing severity data 2025 = 2,273. Missing severity data 2020-2024 = 7,459

† May not total 100 due to rounding

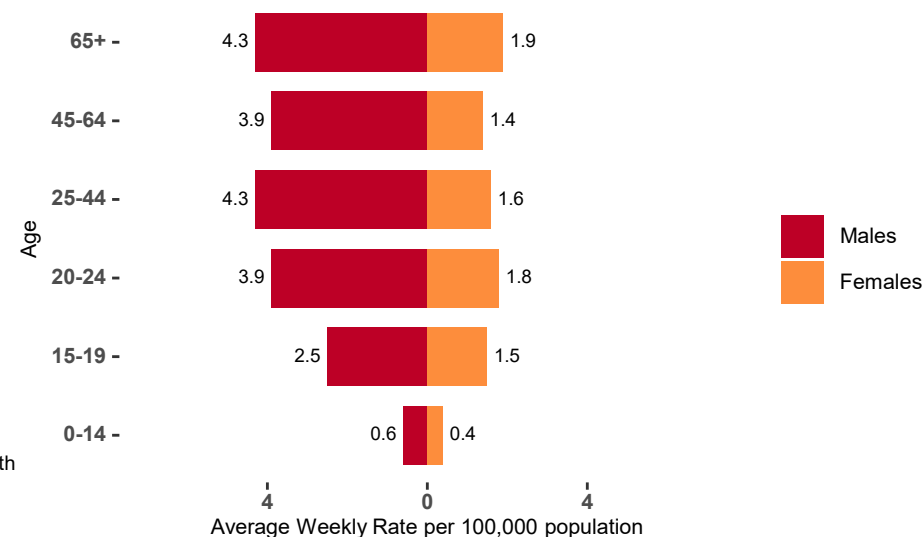
Figure 1. Count of Heat-related Illness Emergency Department Visits by Exposure Category



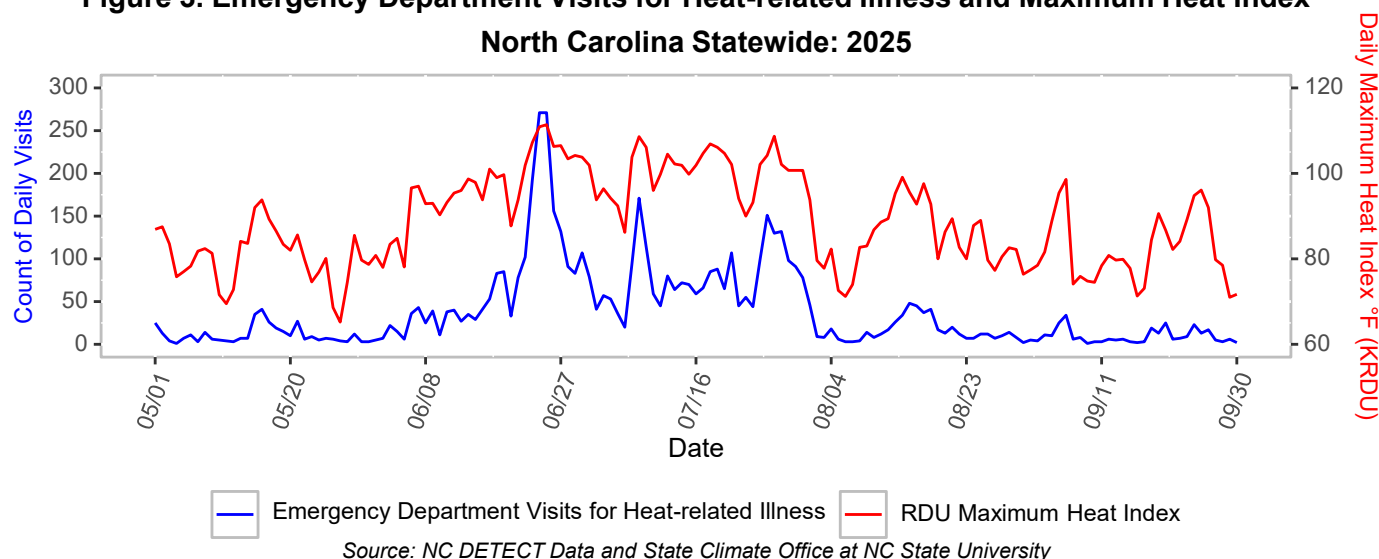
¶ Other exposure categories include recreation, home maintenance, substance use, mental health crises, and hot vehicles or hot homes.

# Unclassified visits were missing sufficient line listing data to classify the visit as occupational or any other exposure category.

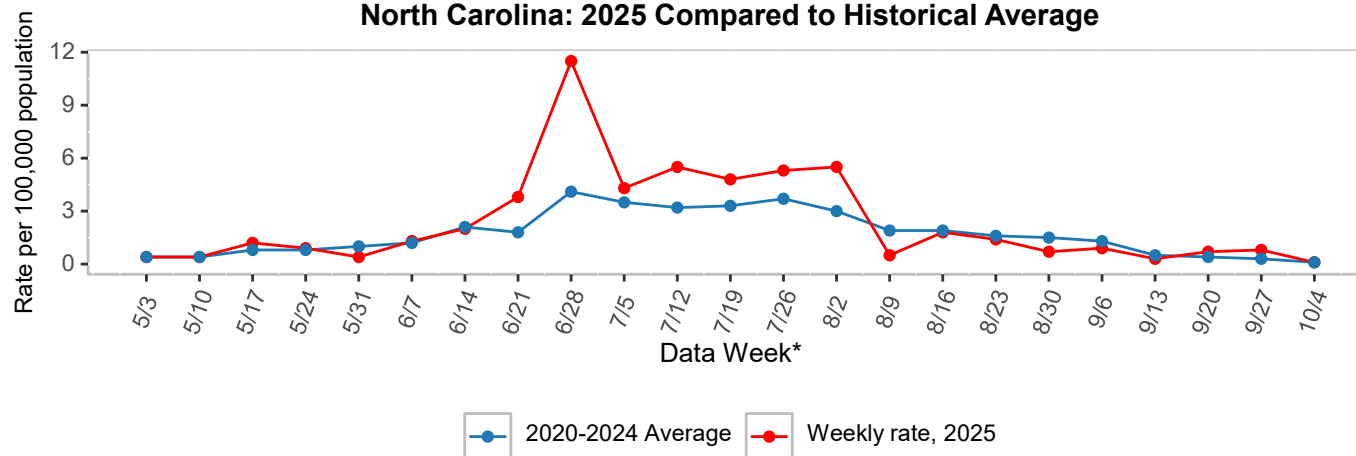
Figure 2. Average Weekly Rate of Heat-Related Illness Emergency Department Visits by Sex and Age



**Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index**  
**North Carolina Statewide: 2025**

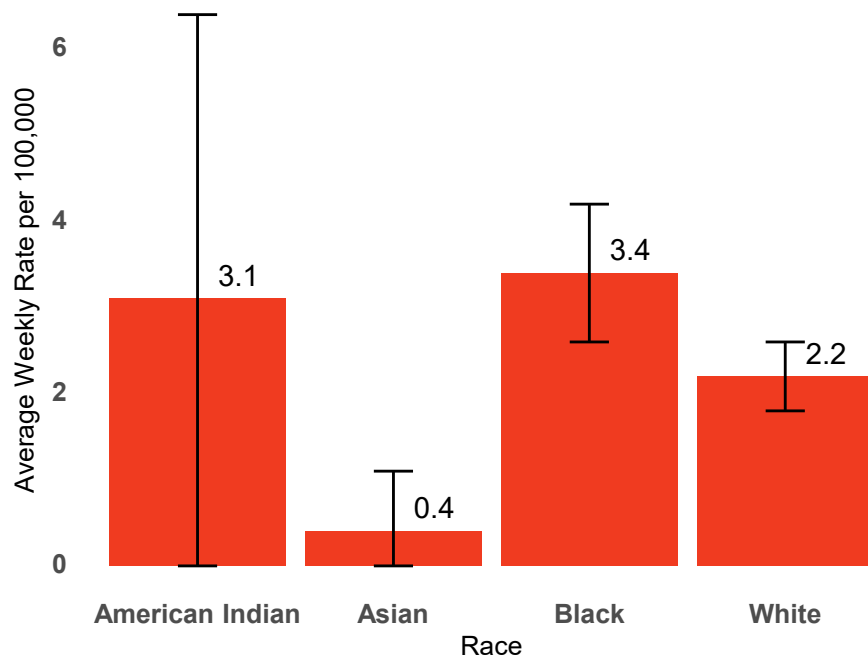


**Figure 4. Rate of Emergency Department Visits for Heat-related Illness**  
**North Carolina: 2025 Compared to Historical Average**



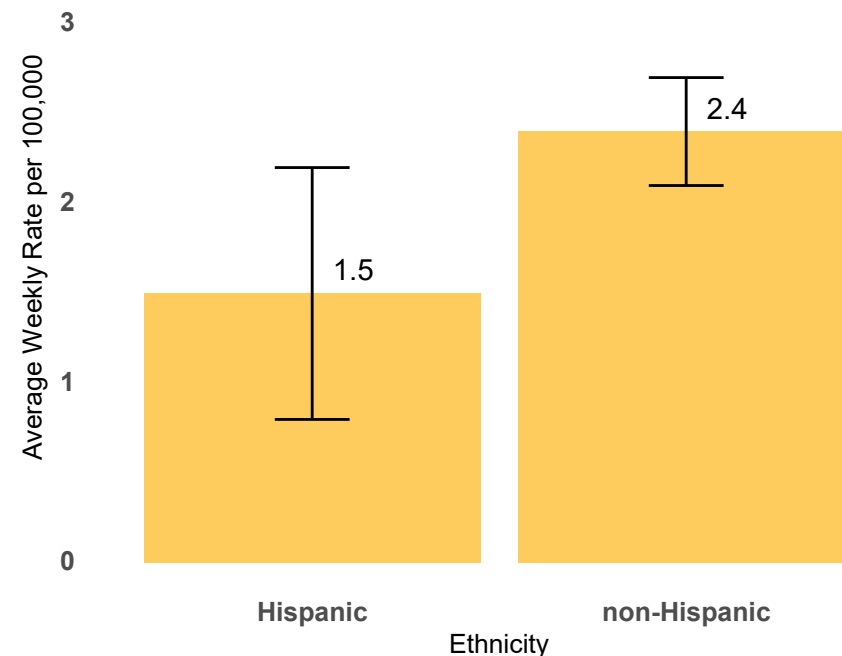
Week ending dates may vary by a few days for earlier years. For data week definitions see [https://ndc.services.cdc.gov/wp-content/uploads/MMWR-Weeks-Calendar\\_2024-2025.pdf](https://ndc.services.cdc.gov/wp-content/uploads/MMWR-Weeks-Calendar_2024-2025.pdf)

**Figure 5. Average Weekly Rate of Heat-related Illness ED Visits by Race per 100,000 Population**



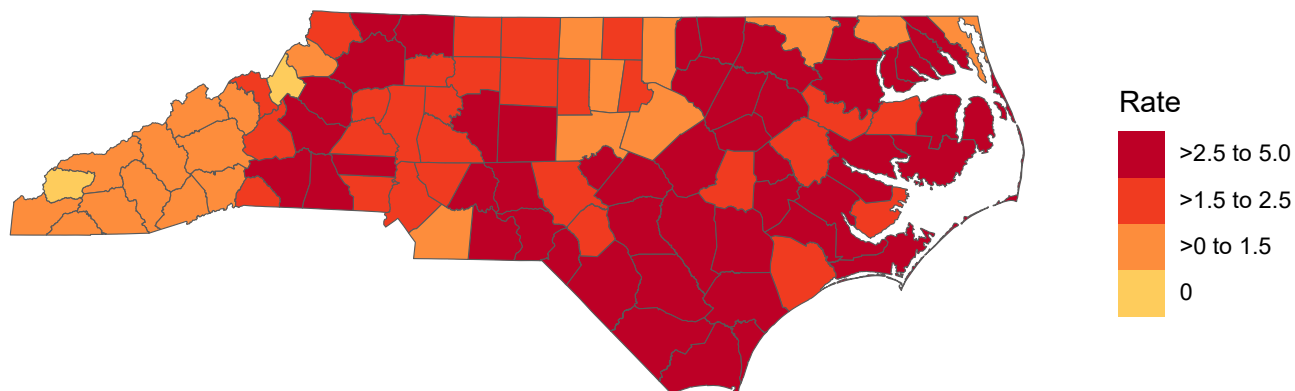
Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates.  
The Pacific Islander race category has been removed due to lack of precision in the rates.  
The 5,748 total HRI ED visits includes 118 visits that were missing race and are excluded from the rates by race.

**Figure 6. Average Weekly Rate of Heat-related Illness ED Visits by Ethnicity per 100,000 Population**



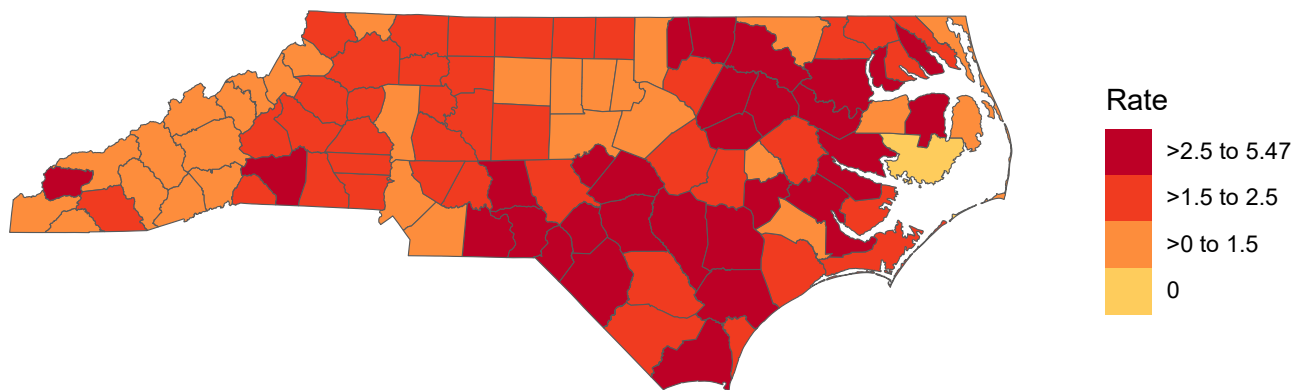
Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates.  
The 5,748 total HRI ED visits includes 33 visits that were missing ethnicity and are excluded from the rates by ethnicity.

**Figure 7a. Average Weekly Rate of Heat-related Illness Emergency Department Visits per 100,000 Population  
2025**



This summer, there were **51 counties** with an average weekly rate of HRI **above 2.5 ED visits per 100,000 people**, compared to **29 counties** from the previous summer.

**Figure 7b. Average Weekly Rate of Heat-related Illness Emergency Department Visits per 100,000 Population  
2024**



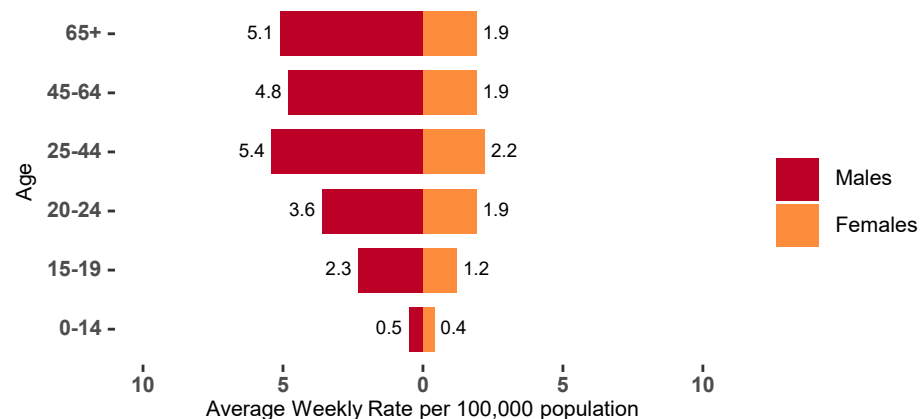


## Southeast (Region 1) Key Messages

There were **585 emergency department (ED) visits for heat-related illness (HRI) in the summer of 2025** with an average weekly rate of **2.9 visits per 100,000 people**. This is much higher than the five previous summers (2020-2024), when there was an average count of **383 HRI ED visits**, with an average weekly rate of **1.8 ED visits per 100,000 people**.

- The most frequent heat-related diagnosis code was **heat exhaustion (n = 190; 54.1%)** (Table 1)
- Heat stroke, the most severe diagnosis code for HRI, was **2.6%** of all visits with known severity in 2025 compared to **1.3%** of all visits from 2020–2024 (Table 1)
- The average weekly rate was highest among **males aged 25-44 years (5.4 HRI ED visits per 100,000 population)** (Figure 1)
- The average weekly rate of HRI ED visits was highest in **Jones County (4.7 per 100,000 population)** (Figure 2)
- The maximum daily heat index ranged from **68.9 to 111.6°F** at Wilmington International Airport (Figure 3)
- There were **88 days** when the minimum temperature was above 70°F.
- The average weekly rate was highest among the **Black race category at 4.3 per 100,000 population** (Figure 5).
- The average weekly rate was highest among **non-Hispanic people at NA per 100,000 population** (Figure 5).

**Figure 1. Average Weekly Rate of Heat-Related Illness Emergency Department Visits by Sex and Age Southeast (Region 1)**



**Table 1. Heat-related illness ED visits by Severity**

Severity <sup>§</sup>	2025		2020-2024	
	Number (N=351 <sup>‡</sup> )	Percent <sup>†</sup>	Number (N=1,197 <sup>‡</sup> )	Percent <sup>†</sup>
Heat Stroke	9	2.6	16	1.3
Heat Exhaustion	190	54.1	745	62.2
Heat Syncope	41	11.7	104	8.7
Heat Cramps	8	2.3	42	3.5
Other Effects <sup>  </sup>	103	29.3	290	24.2

<sup>§</sup> Definitions of heat-related illness severity categories:

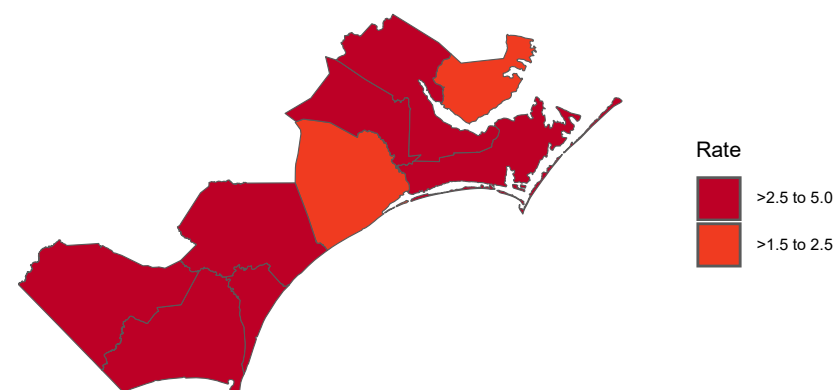
<https://www.cdc.gov/niosh/heat-stress/about/illnesses.html>

<sup>||</sup> other effects include heat fatigue, heat edema, other effects of heat and light, and other effects unspecified

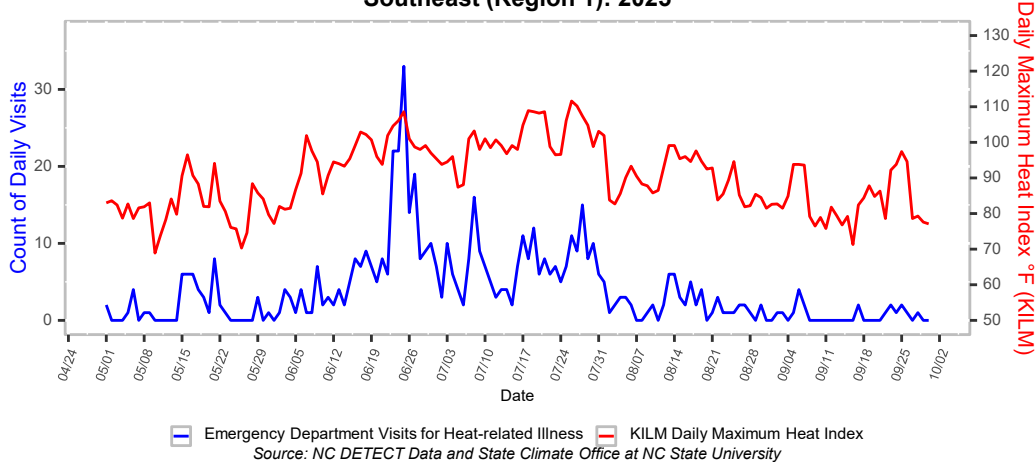
<sup>‡</sup> Missing severity data 2025 = 234. Missing severity data 2020–2024 = 719

<sup>†</sup> May not total 100 due to rounding

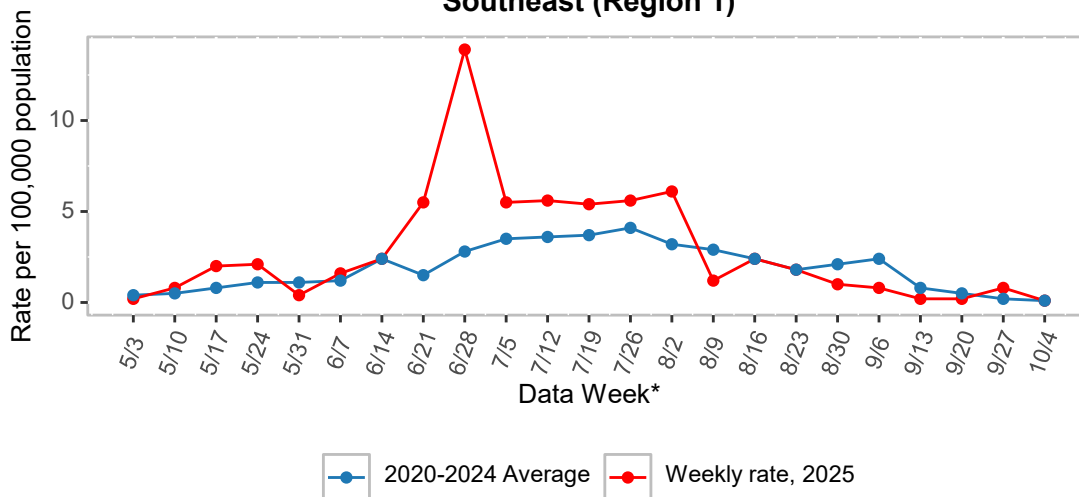
**Figure 2. Average Weekly Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population Southeast (Region 1)**



**Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index Southeast (Region 1): 2025**

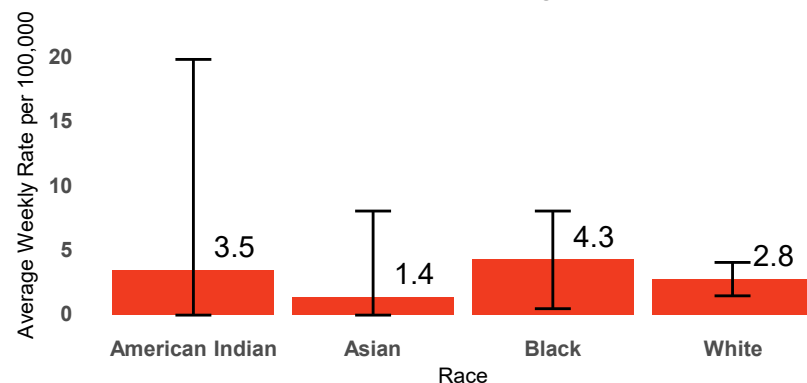


**Figure 4. Rate of Emergency Department Visits for Heat-related Illness Southeast (Region 1)**



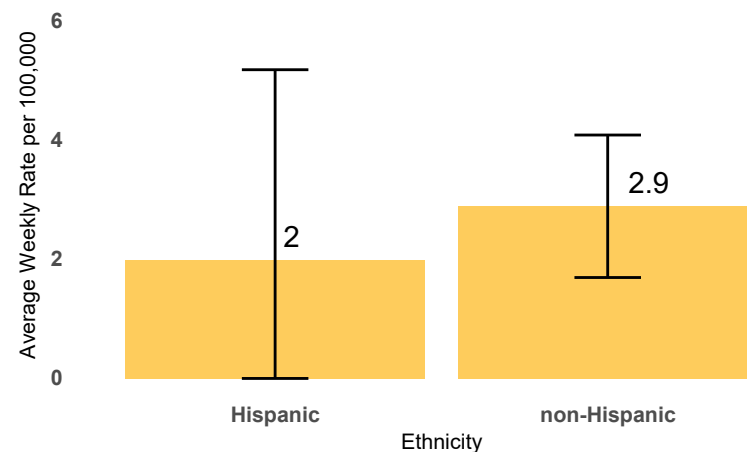
Week ending dates may vary by a few days for earlier years. For data week definitions see [https://ndc.services.cdc.gov/wp-content/uploads/MMWR-Weeks-Calendar\\_2024-2025.pdf](https://ndc.services.cdc.gov/wp-content/uploads/MMWR-Weeks-Calendar_2024-2025.pdf)

**Figure 5. Average Weekly Rate of Heat-related Illness ED Visits by Race per 100,000 Population Southeast (NC DETECT Region 1)**



Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates. The Pacific Islander race category has been removed due to lack of precision in the rates.

**Figure 6. Average Weekly Rate of Heat-related Illness ED Visits by Ethnicity per 100,000 Population Southeast (NC DETECT Region 1)**



Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates.



## North Central (Region 2) Key Messages

There were **972 emergency department (ED) visits for heat-related illness (HRI) in the summer of 2025** with an average weekly rate of **2 visits per 100,000 people**. This is much higher than the five previous summers (2020-2024), when there was an average count of **566 HRI ED visits**, with an average weekly rate of **1.1 ED visits per 100,000 people**.

- The most frequent heat-related diagnosis code was **heat exhaustion (n = 332; 55.1%)** (Table 1)
- Heat stroke, the most severe diagnosis code for HRI, was **3.5%** of all visits with known severity in 2025 compared to **2.3%** of all visits from 2020–2024 (Table 1)
- The average weekly rate was highest among **males aged 65+ years (4.1 HRI ED visits per 100,000 population)** (Figure 1)
- The average weekly rate of HRI ED visits was highest in **Vance County (3.7 per 100,000 population)** (Figure 2)
- The maximum daily heat index ranged from **55.8 to 105.9°F** at Piedmont Triad International Airport (Figure 3)
- There were **49 days** when the minimum temperature was above 70°F.
- The average weekly rate was highest among the **Black race category at 2.6 per 100,000 population** (Figure 5).
- The average weekly rate was highest among **non-Hispanic people at NA per 100,000 population** (Figure 5).

Table 1. Heat-related illness ED visits by Severity

Severity <sup>§</sup>	2025		2020-2024	
	Number (N=602 <sup>‡</sup> )	Percent <sup>†</sup>	Number (N=1,710 <sup>‡</sup> )	Percent <sup>†</sup>
Heat Stroke	21	3.5	40	2.3
Heat Exhaustion	332	55.1	1,040	60.8
Heat Syncope	86	14.3	244	14.3
Heat Cramps	18	3.0	68	4.0
Other Effects <sup>  </sup>	145	24.1	318	18.6

<sup>§</sup> Definitions of heat-related illness severity categories:

<https://www.cdc.gov/niosh/heat-stress/about/illnesses.html>

<sup>||</sup> other effects include heat fatigue, heat edema, other effects of heat and light, and other effects unspecified

<sup>‡</sup> Missing severity data 2025 = 370. Missing severity data 2020–2024 = 1122

<sup>†</sup> May not total 100 due to rounding

Figure 1. Average Weekly Rate of Heat-Related Illness Emergency Department Visits by Sex and Age  
North Central (Region 2)

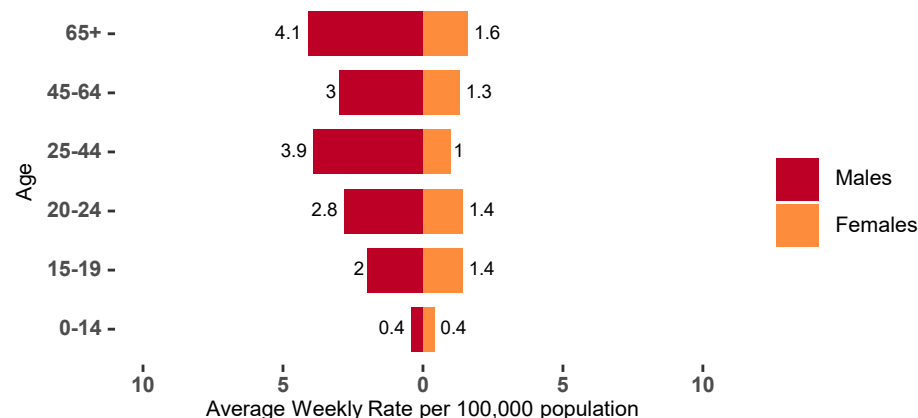
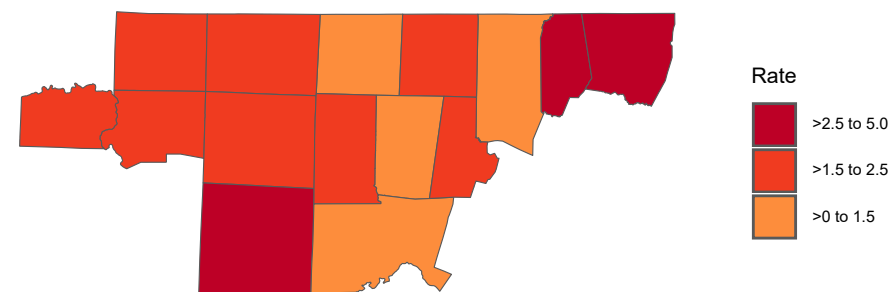
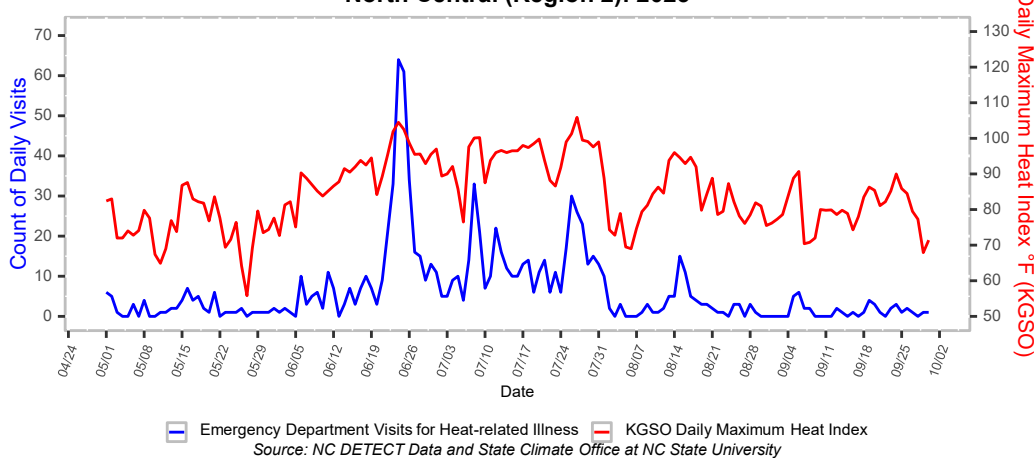


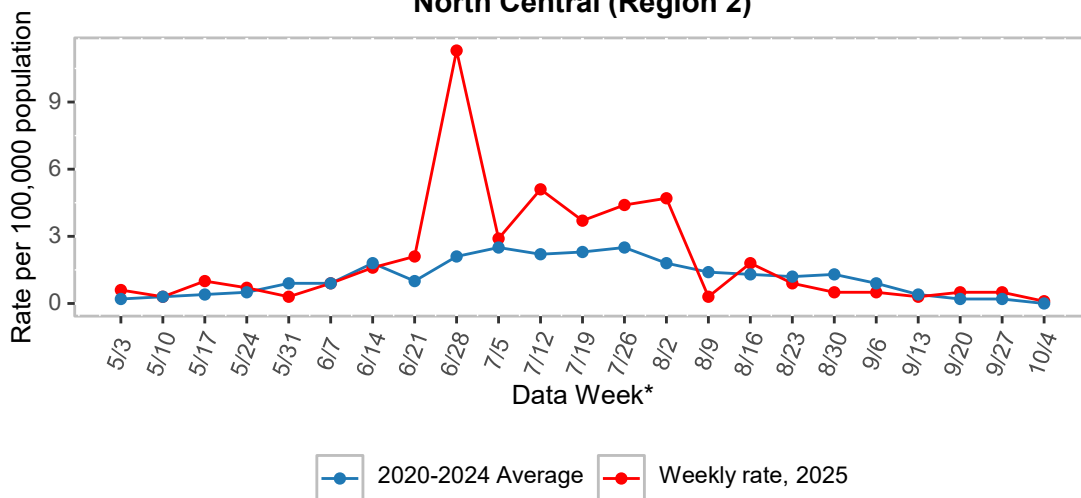
Figure 2. Average Weekly Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population  
North Central (Region 2)



**Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index North Central (Region 2): 2025**

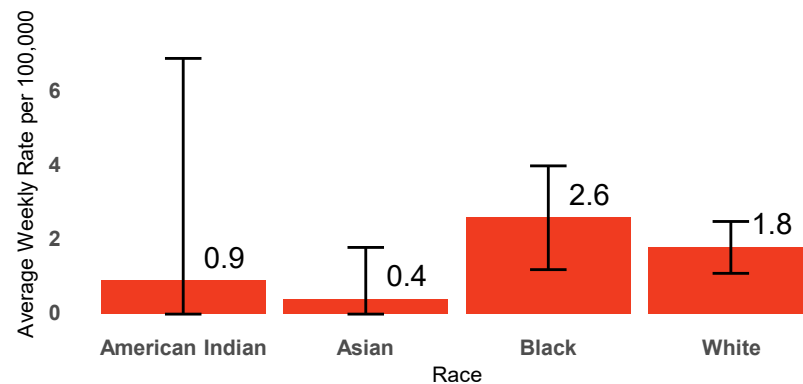


**Figure 4. Rate of Emergency Department Visits for Heat-related Illness North Central (Region 2)**



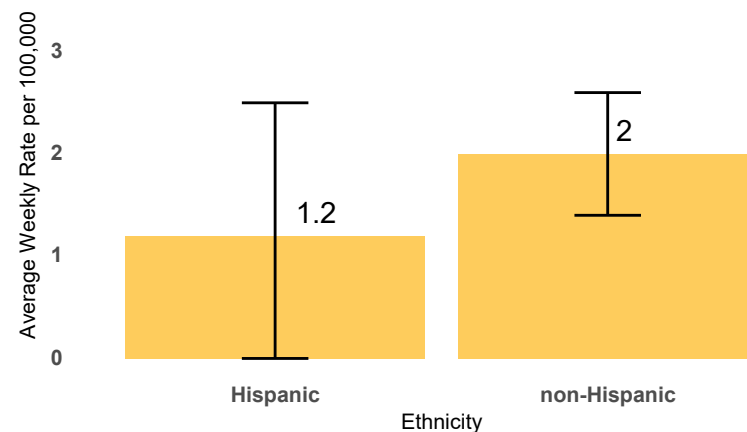
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**Figure 5. Average Weekly Rate of Heat-related Illness ED Visits by Race per 100,000 Population North Central (NC DETECT Region 2)**



Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates. The Pacific Islander race category has been removed due to lack of precision in the rates.

**Figure 6. Average Weekly Rate of Heat-related Illness ED Visits by Ethnicity per 100,000 Population North Central (NC DETECT Region 2)**



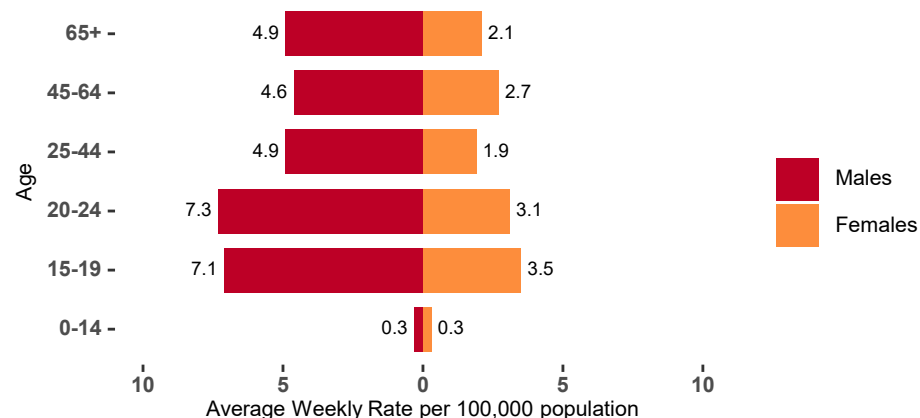
Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates.

## Northeast (Region 3) Key Messages

There were **142 emergency department (ED) visits for heat-related illness (HRI) in the summer of 2025** with an average weekly rate of **3.2 visits per 100,000 people**. This is much higher than the five previous summers (2020-2024), when there was an average count of **98 HRI ED visits**, with an average weekly rate of **2.1 ED visits per 100,000 people**.

- The most frequent heat-related diagnosis code was **heat exhaustion (n = 42; 46.2%)** (Table 1)
- Heat stroke, the most severe diagnosis code for HRI, was **6.6%** of all visits with known severity in 2025 compared to **1%** of all visits from 2020–2024 (Table 1)
- The average weekly rate was highest among **males aged 20-24 years (7.3 HRI ED visits per 100,000 population)** (Figure 1)
- The average weekly rate of HRI ED visits was highest in **Pasquotank County (5 per 100,000 population)** (Figure 2)
- The maximum daily heat index ranged from **63.3 to 120.2°F** at Pitt-Greenville Airport (Figure 3)
- There were **60 days** when the minimum temperature was above 70°F.
- The average weekly rate was highest among the **Pacific Islander race category at 23.6 per 100,000 population** (Figure 5).
- The average weekly rate was highest among **non-Hispanic people at NA per 100,000 population** (Figure 5).

**Figure 1. Average Weekly Rate of Heat-Related Illness Emergency Department Visits by Sex and Age Northeast (Region 3)**



**Table 1. Heat-related illness ED visits by Severity**

Severity <sup>§</sup>	2025		2020-2024	
	Number (N=91 <sup>‡</sup> )	Percent <sup>†</sup>	Number (N=300 <sup>‡</sup> )	Percent <sup>†</sup>
Heat Stroke	6	6.6	3	1.0
Heat Exhaustion	42	46.2	197	65.7
Heat Syncope	9	9.9	33	11.0
Heat Cramps	4	4.4	7	2.3
Other Effects <sup>  </sup>	30	33.0	60	20.0

<sup>§</sup> Definitions of heat-related illness severity categories:

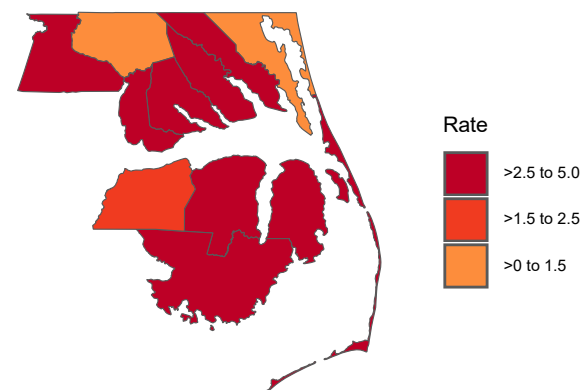
<https://www.cdc.gov/niosh/heat-stress/about/illnesses.html>

<sup>||</sup> other effects include heat fatigue, heat edema, other effects of heat and light, and other effects unspecified

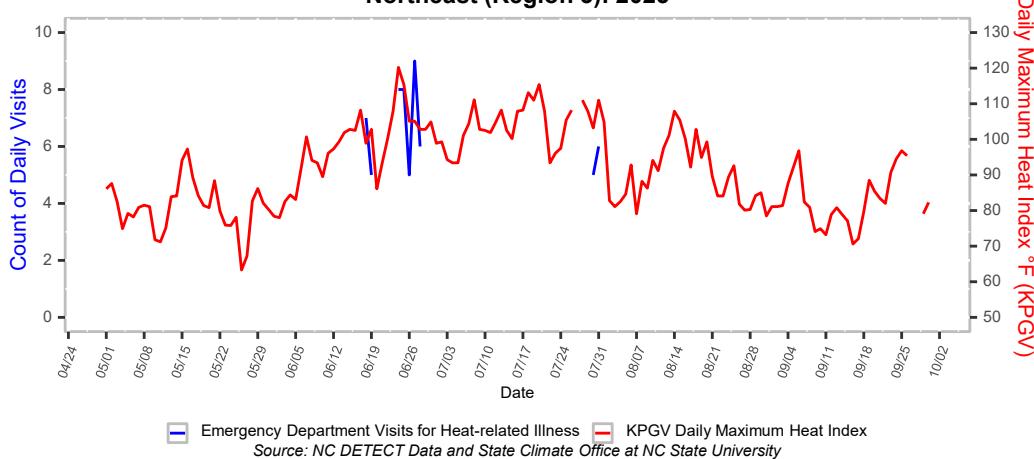
<sup>‡</sup> Missing severity data 2025 = 51. Missing severity data 2020–2024 = 192

<sup>†</sup> May not total 100 due to rounding

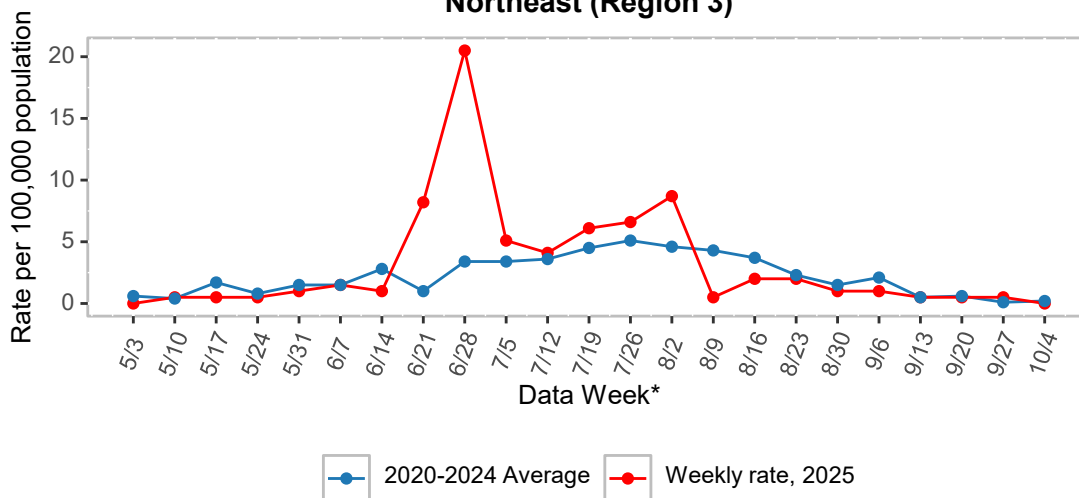
**Figure 2. Average Weekly Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population Northeast (Region 3)**



**Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index Northeast (Region 3): 2025**

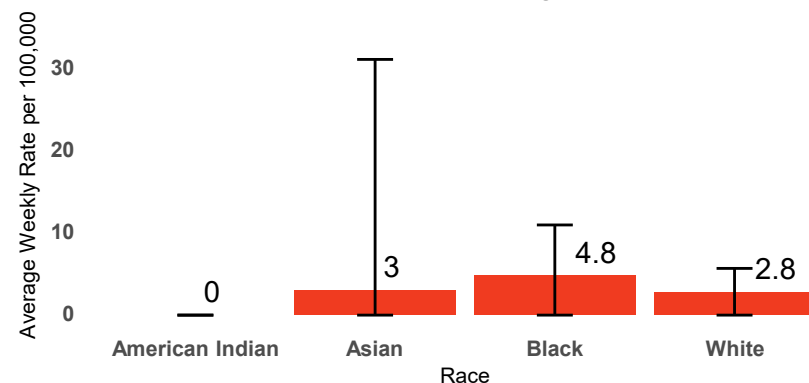


**Figure 4. Rate of Emergency Department Visits for Heat-related Illness Northeast (Region 3)**



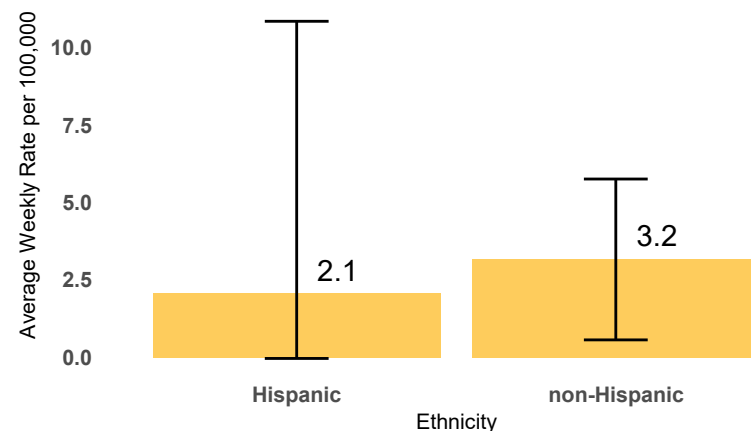
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**Figure 5. Average Weekly Rate of Heat-related Illness ED Visits by Race per 100,000 Population Northeast (NC DETECT Region 3)**



Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates. The Pacific Islander race category has been removed due to lack of precision in the rates.

**Figure 6. Average Weekly Rate of Heat-related Illness ED Visits by Ethnicity per 100,000 Population Northeast (NC DETECT Region 3)**



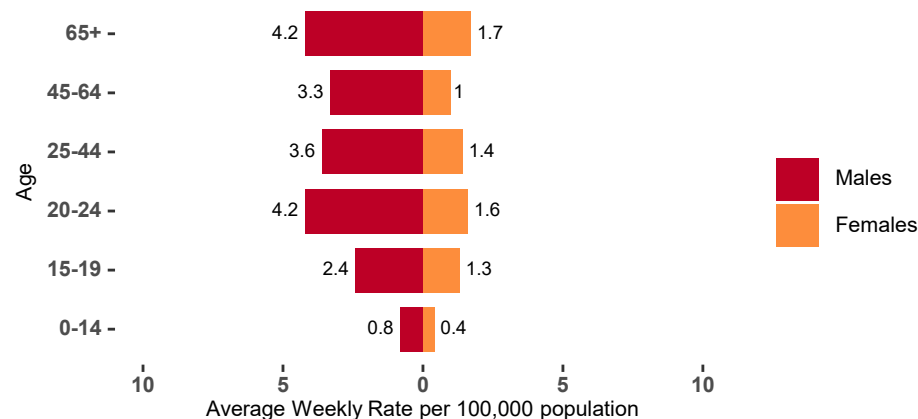
Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates.

## South Central (Region 4) Key Messages

There were **1,238 emergency department (ED) visits for heat-related illness (HRI) in the summer of 2025** with an average weekly rate of **2.1 visits per 100,000 people**. This is much higher than the five previous summers (2020-2024), when there was an average count of **744 HRI ED visits**, with an average weekly rate of **1.2 ED visits per 100,000 people**.

- The most frequent heat-related diagnosis code was **heat exhaustion (n = 410; 53.5%)** (Table 1)
- Heat stroke, the most severe diagnosis code for HRI, was **3%** of all visits with known severity in 2025 compared to **2.3%** of all visits from 2020–2024 (Table 1)
- The average weekly rate was highest among **males aged 20-24 years (4.2 HRI ED visits per 100,000 population)** (Figure 1)
- The average weekly rate of HRI ED visits was highest in **Cleveland County (3.2 per 100,000 population)** (Figure 2)
- The maximum daily heat index ranged from **59.5 to 113.7°F** at Charlotte/Douglas International Airport (Figure 3)
- There were **67 days** when the minimum temperature was above 70°F.
- The average weekly rate was highest among the **American Indian race category at 7.4 per 100,000 population** (Figure 5).
- The average weekly rate was highest among **non-Hispanic people at NA per 100,000 population** (Figure 5).

**Figure 1. Average Weekly Rate of Heat-Related Illness Emergency Department Visits by Sex and Age**  
South Central (Region 4)



**Table 1. Heat-related illness ED visits by Severity**

Severity <sup>§</sup>	2025		2020-2024	
	Number (N=767 <sup>‡</sup> )	Percent <sup>†</sup>	Number (N=2,307 <sup>‡</sup> )	Percent <sup>†</sup>
Heat Stroke	23	3.0	54	2.3
Heat Exhaustion	410	53.5	1,345	58.3
Heat Syncope	76	9.9	261	11.3
Heat Cramps	24	3.1	74	3.2
Other Effects <sup>  </sup>	234	30.5	573	24.8

<sup>§</sup> Definitions of heat-related illness severity categories:

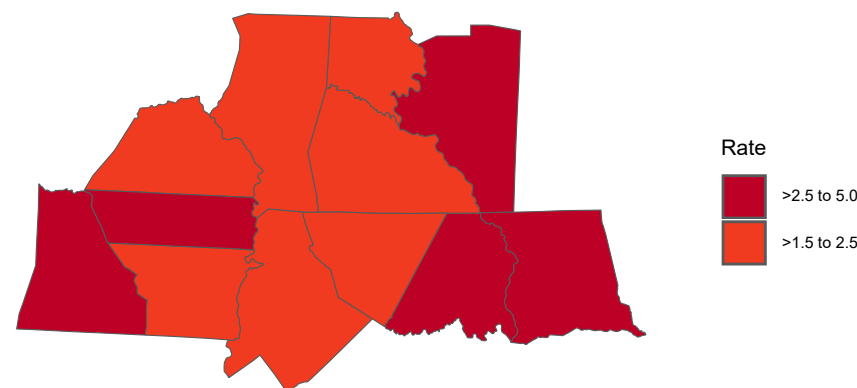
<https://www.cdc.gov/niosh/heat-stress/about/illnesses.html>

<sup>||</sup> other effects include heat fatigue, heat edema, other effects of heat and light, and other effects unspecified

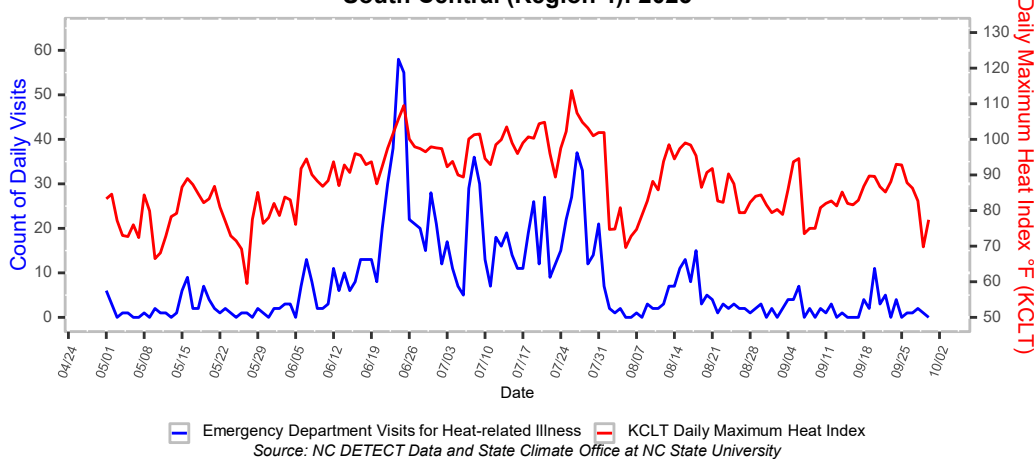
<sup>‡</sup> Missing severity data 2025 = 471. Missing severity data 2020–2024 = 1413

<sup>†</sup> May not total 100 due to rounding

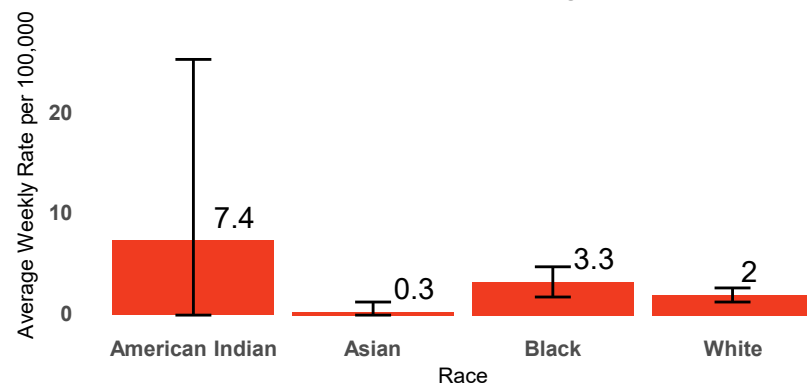
**Figure 2. Average Weekly Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population**  
South Central (Region 4)



**Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index South Central (Region 4): 2025**

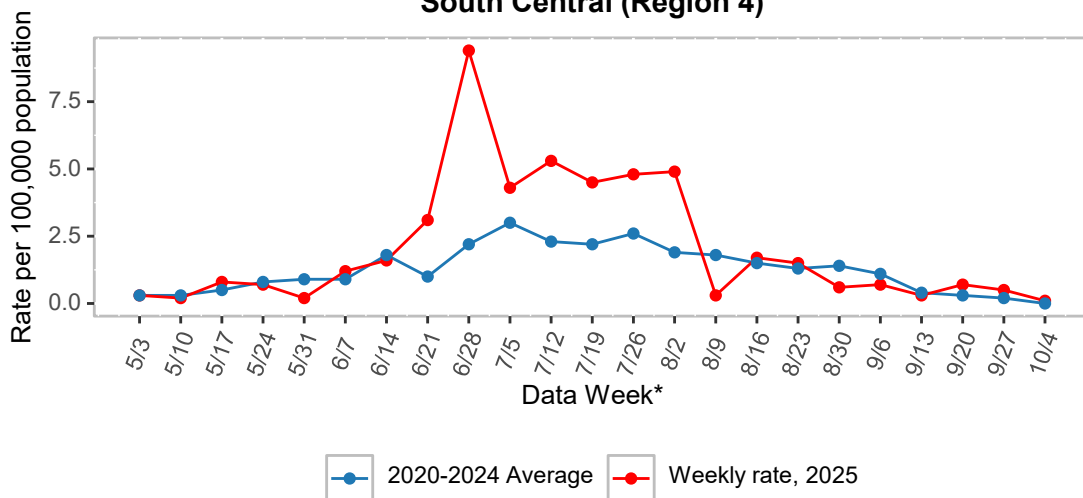


**Figure 5. Average Weekly Rate of Heat-related Illness ED Visits by Race per 100,000 Population South Central (NC DETECT Region 4)**



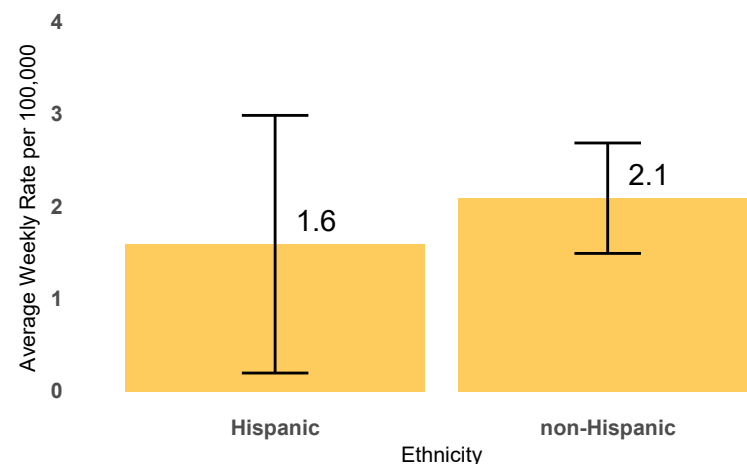
Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates. The Pacific Islander race category has been removed due to lack of precision in the rates.

**Figure 4. Rate of Emergency Department Visits for Heat-related Illness South Central (Region 4)**



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**Figure 6. Average Weekly Rate of Heat-related Illness ED Visits by Ethnicity per 100,000 Population South Central (NC DETECT Region 4)**



Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates.

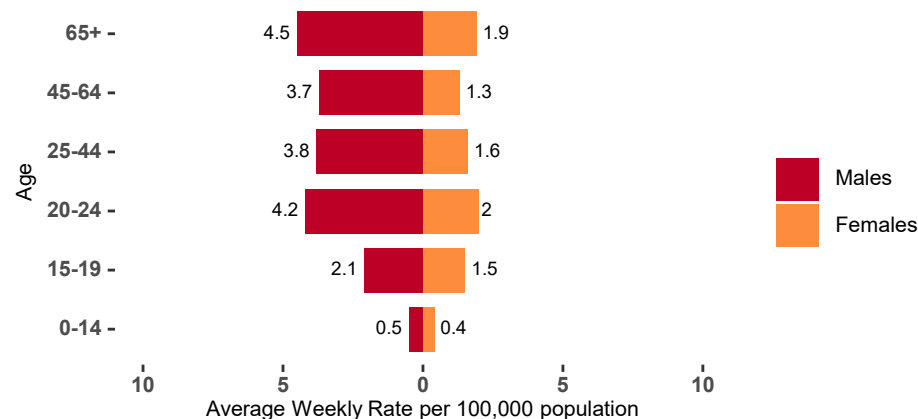


## North Coastal Plain (Region 5) Key Messages

There were **1,125 emergency department (ED) visits for heat-related illness (HRI) in the summer of 2025** with an average weekly rate of **2.2 visits per 100,000 people**. This is much higher than the five previous summers (2020-2024), when there was an average count of **809 HRI ED visits**, with an average weekly rate of **1.5 ED visits per 100,000 people**.

- The most frequent heat-related diagnosis code was **heat exhaustion (n = 374; 55.3%)** (Table 1)
- Heat stroke, the most severe diagnosis code for HRI, was **2.1%** of all visits with known severity in 2025 compared to **1.8%** of all visits from 2020–2024 (Table 1)
- The average weekly rate was highest among **males aged 65+ years (4.5 HRI ED visits per 100,000 population)** (Figure 1)
- The average weekly rate of HRI ED visits was highest in **Wilson County (4.9 per 100,000 population)** (Figure 2)
- The maximum daily heat index ranged from **64.5 to 110.2°F** at Rocky Mount-Wilson Regional Airport (Figure 3)
- There were **61 days** when the minimum temperature was above 70°F.
- The average weekly rate was highest among the **Pacific Islander race category at 5 per 100,000 population** (Figure 5).
- The average weekly rate was highest among **non-Hispanic people at NA per 100,000 population** (Figure 5).

**Figure 1. Average Weekly Rate of Heat-Related Illness Emergency Department Visits by Sex and Age**  
North Coastal Plain (Region 5)



**Table 1. Heat-related illness ED visits by Severity**

Severity <sup>§</sup>	2025		2020-2024	
	Number (N=676 <sup>‡</sup> )	Percent <sup>†</sup>	Number (N=2,283 <sup>‡</sup> )	Percent <sup>†</sup>
Heat Stroke	14	2.1	42	1.8
Heat Exhaustion	374	55.3	1,401	61.4
Heat Syncope	77	11.4	282	12.4
Heat Cramps	17	2.5	132	5.8
Other Effects <sup>  </sup>	194	28.7	426	18.7

<sup>§</sup> Definitions of heat-related illness severity categories:

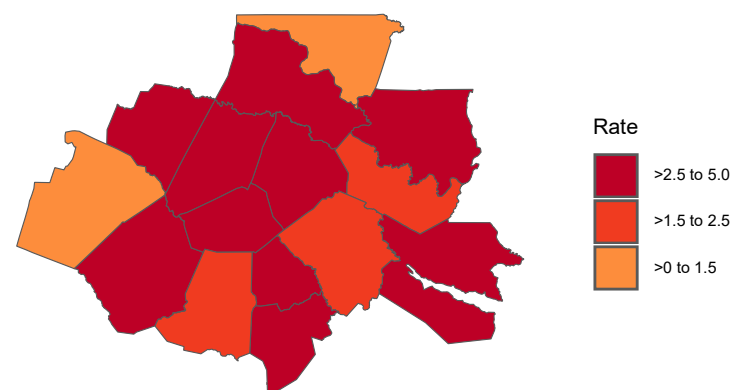
<https://www.cdc.gov/niosh/heat-stress/about/illnesses.html>

<sup>||</sup> other effects include heat fatigue, heat edema, other effects of heat and light, and other effects unspecified

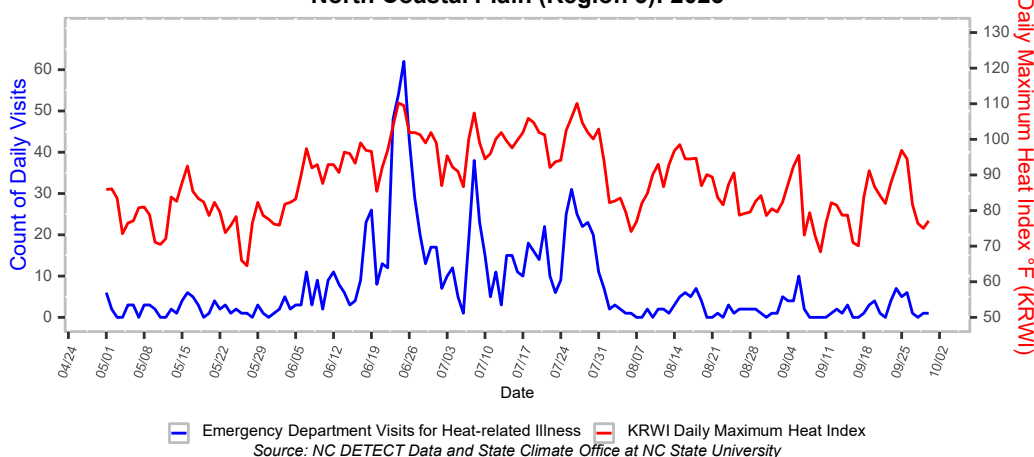
<sup>‡</sup> Missing severity data 2025 = 449. Missing severity data 2020–2024 = 1764

<sup>†</sup> May not total 100 due to rounding

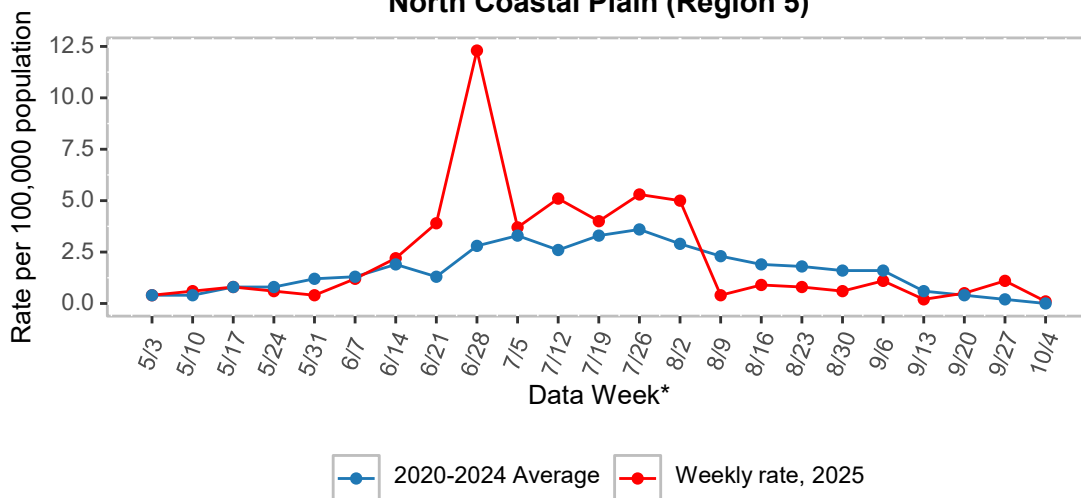
**Figure 2. Average Weekly Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population**  
North Coastal Plain (Region 5)



**Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index  
North Coastal Plain (Region 5): 2025**

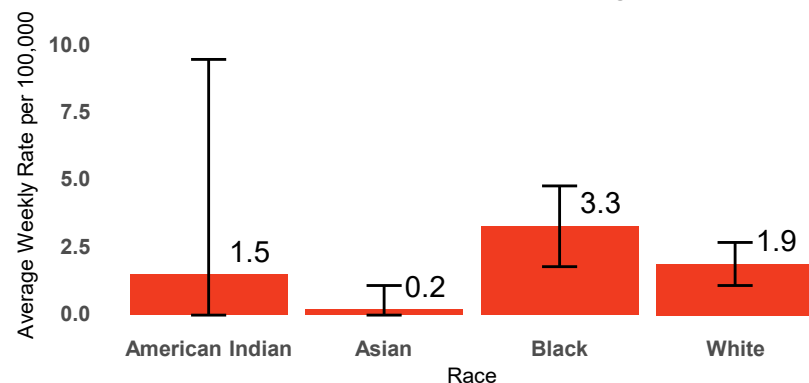


**Figure 4. Rate of Emergency Department Visits for Heat-related Illness  
North Coastal Plain (Region 5)**



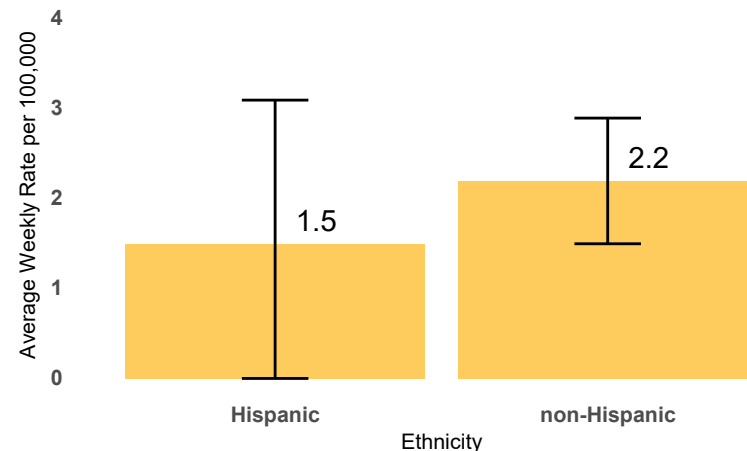
Week ending dates may vary by a few days for earlier years. For data week definitions see [https://ndc.services.cdc.gov/wp-content/uploads/MMWR-Weeks-Calendar\\_2024-2025.pdf](https://ndc.services.cdc.gov/wp-content/uploads/MMWR-Weeks-Calendar_2024-2025.pdf)

**Figure 5. Average Weekly Rate of Heat-related Illness ED Visits  
by Race per 100,000 Population  
North Coastal Plain (NC DETECT Region 5)**



Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates. The Pacific Islander race category has been removed due to lack of precision in the rates.

**Figure 6. Average Weekly Rate of Heat-related Illness ED Visits  
by Ethnicity per 100,000 Population  
North Coastal Plain (NC DETECT Region 5)**



Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates.

## Foothills (Region 6) Key Messages

There were **334 emergency department (ED) visits for heat-related illness (HRI) in the summer of 2025** with an average weekly rate of **3.1 visits per 100,000 people**. This is much higher than the five previous summers (2020-2024), when there was an average count of **161 HRI ED visits**, with an average weekly rate of **1.4 ED visits per 100,000 people**.

- The most frequent heat-related diagnosis code was **heat exhaustion (n = 125; 70.2%)** (Table 1)
- Heat stroke, the most severe diagnosis code for HRI, was **4.5%** of all visits with known severity in 2025 compared to **2.8%** of all visits from 2020–2024 (Table 1)
- The average weekly rate was highest among **males aged 45-64 years (6.5 HRI ED visits per 100,000 population)** (Figure 1)
- The average weekly rate of HRI ED visits was highest in **Rutherford County (4.8 per 100,000 population)** (Figure 2)
- The maximum daily heat index ranged from **57.6 to 107.7°F** at Morganton-Lenoir Airport (Figure 3)
- There were **26 days** when the minimum temperature was above 70°F.
- The average weekly rate was highest among the **Black race category at 6 per 100,000 population** (Figure 5).
- The average weekly rate was highest among **non-Hispanic people at NA per 100,000 population** (Figure 5).

**Figure 1. Average Weekly Rate of Heat-Related Illness Emergency Department Visits by Sex and Age**  
Foothills (Region 6)



**Table 1. Heat-related illness ED visits by Severity**

Severity <sup>§</sup>	2025		2020-2024	
	Number (N=178 <sup>‡</sup> )	Percent <sup>†</sup>	Number (N=529 <sup>‡</sup> )	Percent <sup>†</sup>
Heat Stroke	8	4.5	15	2.8
Heat Exhaustion	125	70.2	378	71.5
Heat Syncope	9	5.1	40	7.6
Heat Cramps	1	0.6	15	2.8
Other Effects <sup>  </sup>	35	19.7	81	15.3

<sup>§</sup> Definitions of heat-related illness severity categories:

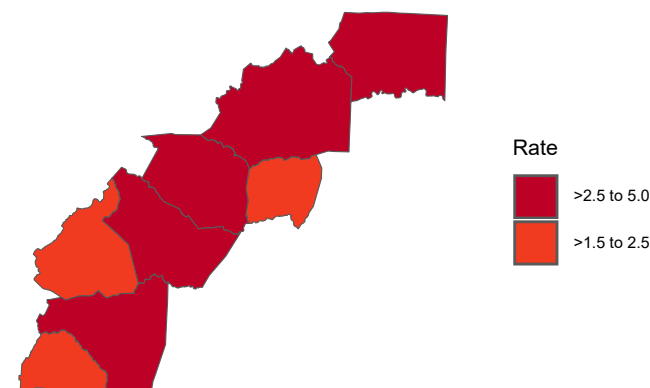
<https://www.cdc.gov/niosh/heat-stress/about/illnesses.html>

<sup>||</sup> other effects include heat fatigue, heat edema, other effects of heat and light, and other effects unspecified

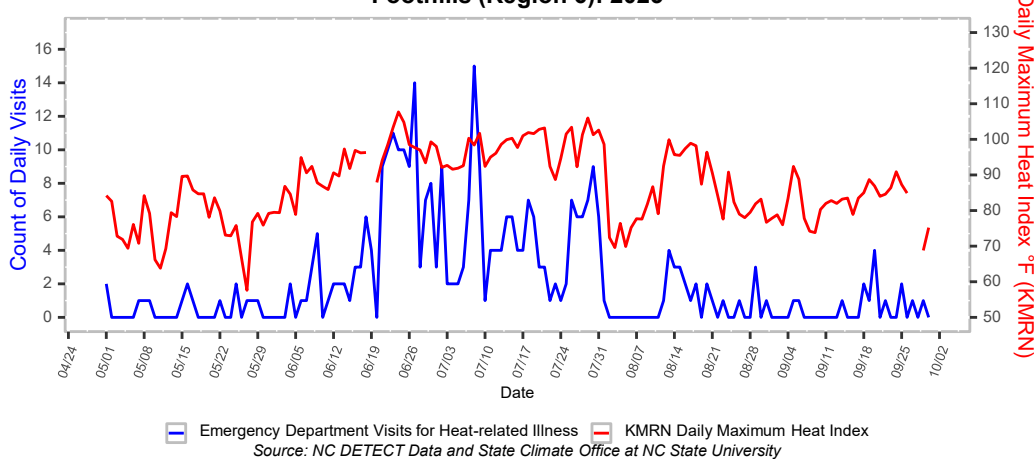
<sup>‡</sup> Missing severity data 2025 = 156. Missing severity data 2020–2024 = 275

<sup>†</sup> May not total 100 due to rounding

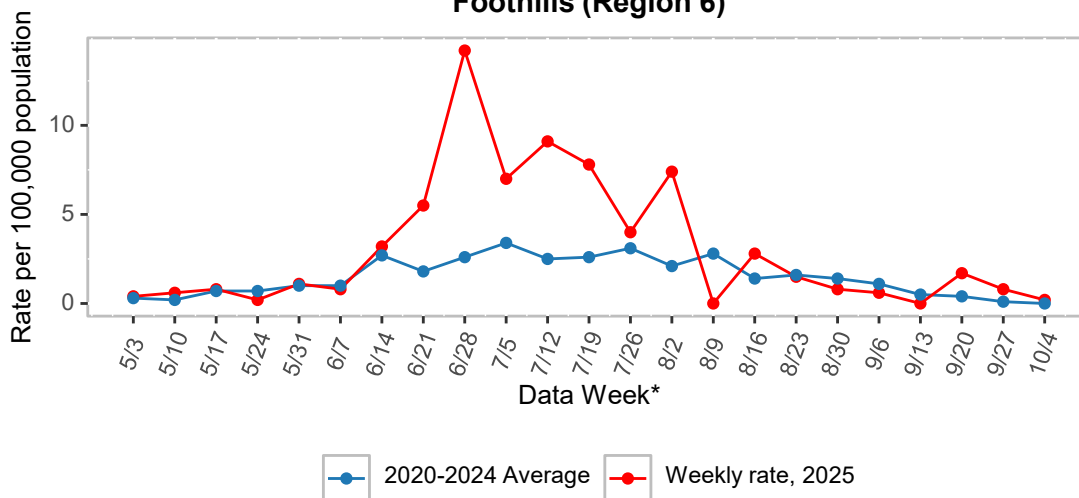
**Figure 2. Average Weekly Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population**  
Foothills (Region 6)



**Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index Foothills (Region 6): 2025**

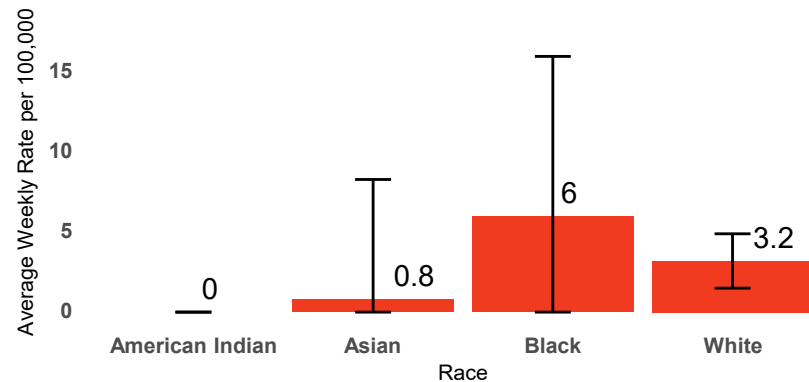


**Figure 4. Rate of Emergency Department Visits for Heat-related Illness Foothills (Region 6)**



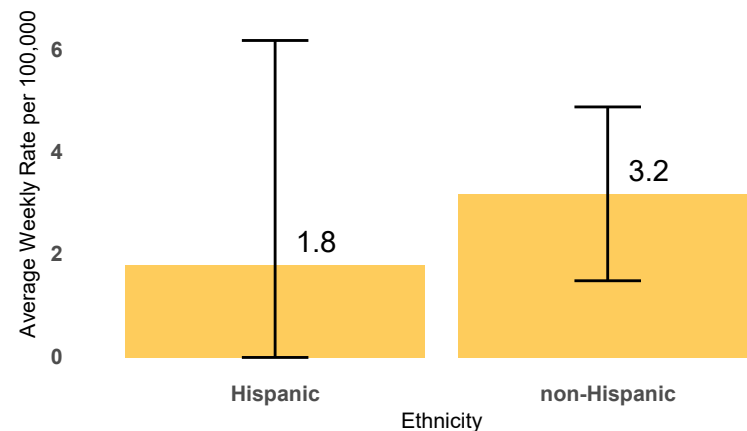
Week ending dates may vary by a few days for earlier years. For data week definitions see [https://ndc.services.cdc.gov/wp-content/uploads/MMWR-Weeks-Calendar\\_2024-2025.pdf](https://ndc.services.cdc.gov/wp-content/uploads/MMWR-Weeks-Calendar_2024-2025.pdf)

**Figure 5. Average Weekly Rate of Heat-related Illness ED Visits by Race per 100,000 Population Foothills (NC DETECT Region 6)**



Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates. The Pacific Islander race category has been removed due to lack of precision in the rates.

**Figure 6. Average Weekly Rate of Heat-related Illness ED Visits by Ethnicity per 100,000 Population Foothills (NC DETECT Region 6)**



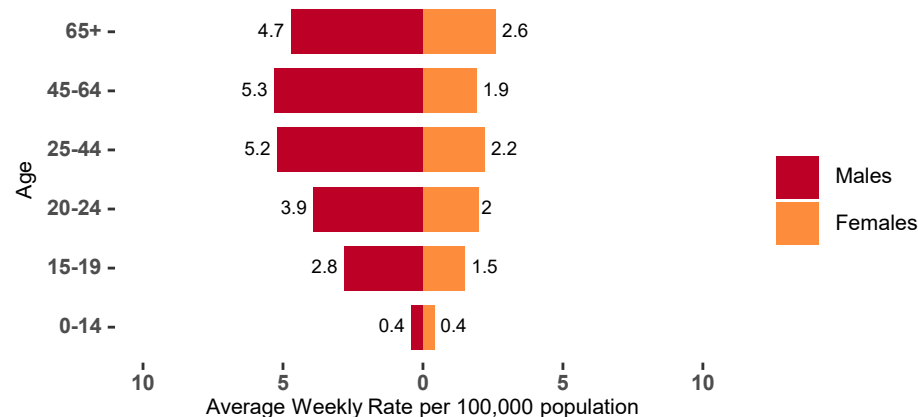
Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates.

## Sandhills (Region 7) Key Messages

There were **837 emergency department (ED) visits for heat-related illness (HRI) in the summer of 2025** with an average weekly rate of **2.8 visits per 100,000 people**. This is much higher than the five previous summers (2020-2024), when there was an average count of **619 HRI ED visits**, with an average weekly rate of **2 ED visits per 100,000 people**.

- The most frequent heat-related diagnosis code was **heat exhaustion (n = 268; 54%)** (Table 1)
- Heat stroke, the most severe diagnosis code for HRI, was **3.6%** of all visits with known severity in 2025 compared to **2.6%** of all visits from 2020–2024 (Table 1)
- The average weekly rate was highest among **males aged 45-64 years (5.3 HRI ED visits per 100,000 population)** (Figure 1)
- The average weekly rate of HRI ED visits was highest in **Anson County (4.4 per 100,000 population)** (Figure 2)
- The maximum daily heat index ranged from **64.7 to 115.5°F** at Fayetteville Regional/Grannis Field Airport (Figure 3)
- There were **75 days** when the minimum temperature was above 70°F.
- The average weekly rate was highest among the **Pacific Islander race category at 16.3 per 100,000 population** (Figure 5).
- The average weekly rate was highest among **non-Hispanic people at NA per 100,000 population** (Figure 5).

**Figure 1. Average Weekly Rate of Heat-Related Illness Emergency Department Visits by Sex and Age Sandhills (Region 7)**



**Table 1. Heat-related illness ED visits by Severity**

Severity <sup>§</sup>	2025		2020-2024	
	Number (N=496 <sup>‡</sup> )	Percent <sup>†</sup>	Number (N=1,874 <sup>‡</sup> )	Percent <sup>†</sup>
Heat Stroke	18	3.6	49	2.6
Heat Exhaustion	268	54.0	1,079	57.6
Heat Syncope	58	11.7	267	14.2
Heat Cramps	8	1.6	73	3.9
Other Effects <sup>  </sup>	144	29.0	406	21.7

<sup>§</sup> Definitions of heat-related illness severity categories:

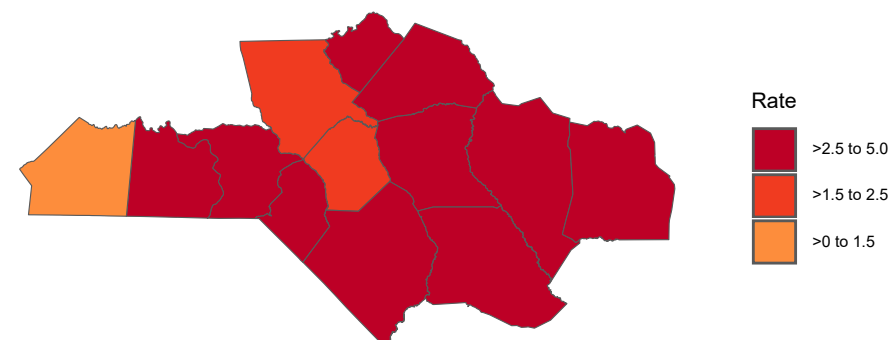
<https://www.cdc.gov/niosh/heat-stress/about/illnesses.html>

<sup>||</sup> other effects include heat fatigue, heat edema, other effects of heat and light, and other effects unspecified

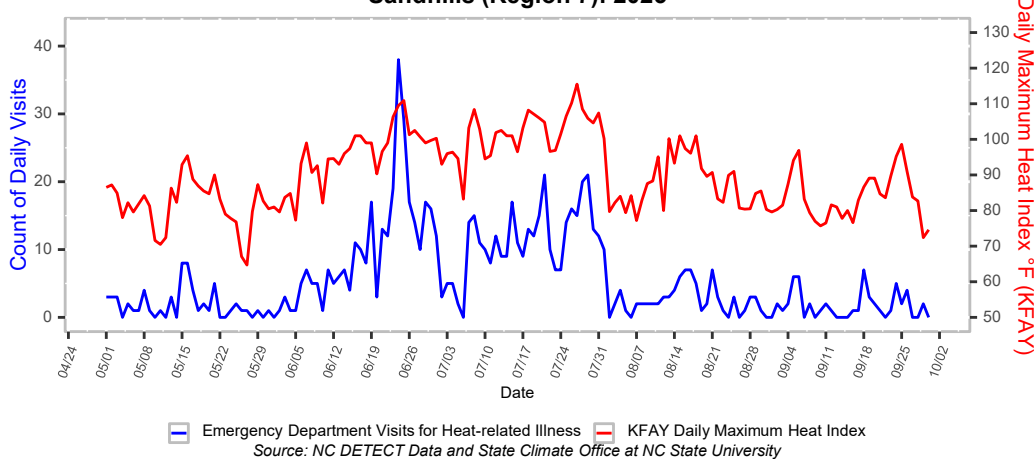
<sup>‡</sup> Missing severity data 2025 = 341. Missing severity data 2020–2024 = 1219

<sup>†</sup> May not total 100 due to rounding

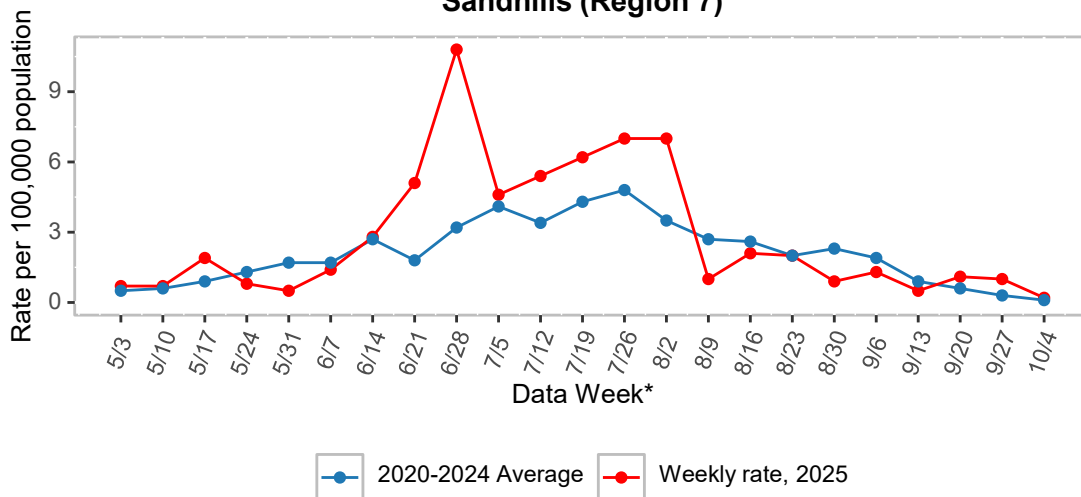
**Figure 2. Average Weekly Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population Sandhills (Region 7)**



**Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index Sandhills (Region 7): 2025**

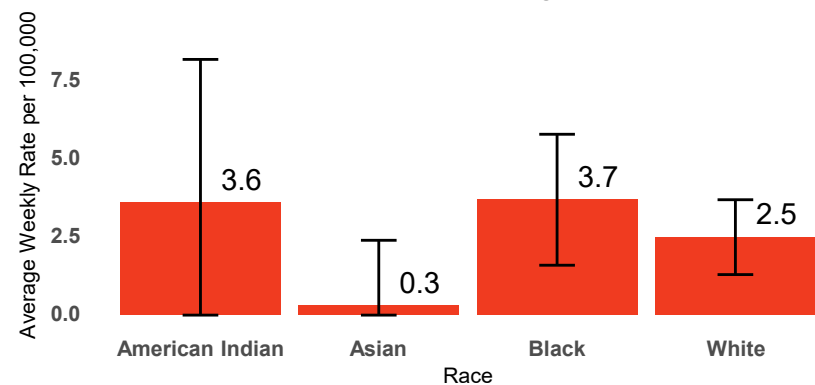


**Figure 4. Rate of Emergency Department Visits for Heat-related Illness Sandhills (Region 7)**



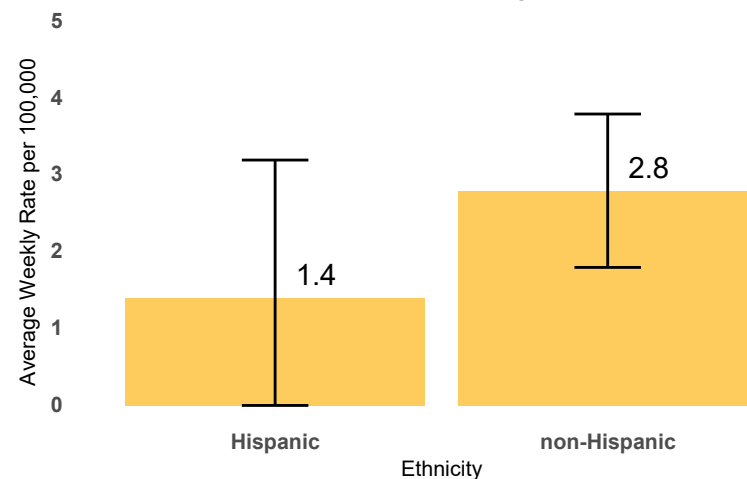
Week ending dates may vary by a few days for earlier years. For data week definitions see [https://ndc.services.cdc.gov/wp-content/uploads/MMWR-Weeks-Calendar\\_2024-2025.pdf](https://ndc.services.cdc.gov/wp-content/uploads/MMWR-Weeks-Calendar_2024-2025.pdf)

**Figure 5. Average Weekly Rate of Heat-related Illness ED Visits by Race per 100,000 Population Sandhills (NC DETECT Region 7)**



Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates. The Pacific Islander race category has been removed due to lack of precision in the rates.

**Figure 6. Average Weekly Rate of Heat-related Illness ED Visits by Ethnicity per 100,000 Population Sandhills (NC DETECT Region 7)**



Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates.



## Mountains (Region 8) Key Messages

There were **154 emergency department (ED) visits for heat-related illness (HRI) in the summer of 2025** with an average weekly rate of **0.8 visits per 100,000 people**. This is much higher than the five previous summers (2020-2024), when there was an average count of **104 HRI ED visits**, with an average weekly rate of **0.5 ED visits per 100,000 people**.

- The most frequent heat-related diagnosis code was **heat exhaustion (n = 68; 81%)** (Table 1)
- Heat stroke, the most severe diagnosis code for HRI, was **1.2%** of all visits with known severity in 2025 compared to **3.2%** of all visits from 2020–2024 (Table 1)
- The average weekly rate was highest among **males aged 25-44 years (1.7 HRI ED visits per 100,000 population)** (Figure 1)
- The average weekly rate of HRI ED visits was highest in **Alleghany County (3.1 per 100,000 population)** (Figure 2)
- The maximum daily heat index ranged from **56.6 to 96.6°F** at Asheville Regional Airport (Figure 3)
- There were **12 days** when the minimum temperature was above 70°F.
- The average weekly rate was highest among the **Black race category at 1.4 per 100,000 population** (Figure 5).
- The average weekly rate was highest among **non-Hispanic people at NA per 100,000 population** (Figure 5).

Table 1. Heat-related illness ED visits by Severity

Severity <sup>§</sup>	2025		2020-2024	
	Number (N=84 <sup>‡</sup> )	Percent <sup>†</sup>	Number (N=343 <sup>‡</sup> )	Percent <sup>†</sup>
Heat Stroke	1	1.2	11	3.2
Heat Exhaustion	68	81.0	268	78.1
Heat Syncope	9	10.7	35	10.2
Heat Cramps	0	0.0	4	1.2
Other Effects <sup>  </sup>	6	7.1	25	7.3

<sup>§</sup> Definitions of heat-related illness severity categories:

<https://www.cdc.gov/niosh/heat-stress/about/illnesses.html>

<sup>||</sup> other effects include heat fatigue, heat edema, other effects of heat and light, and other effects unspecified

<sup>‡</sup> Missing severity data 2025 = 70. Missing severity data 2020–2024 = 175

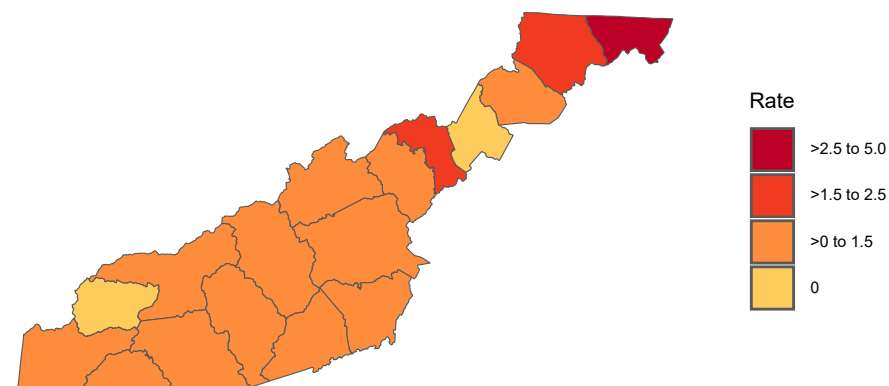
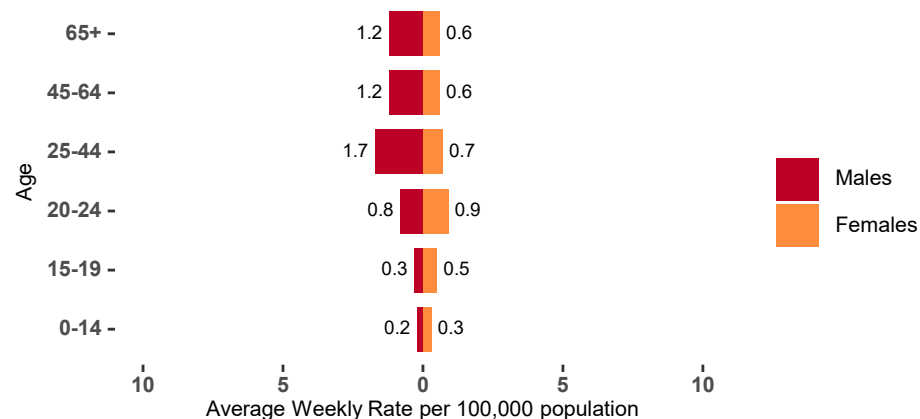
<sup>†</sup> May not total 100 due to rounding

Figure 2. Average Weekly Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population

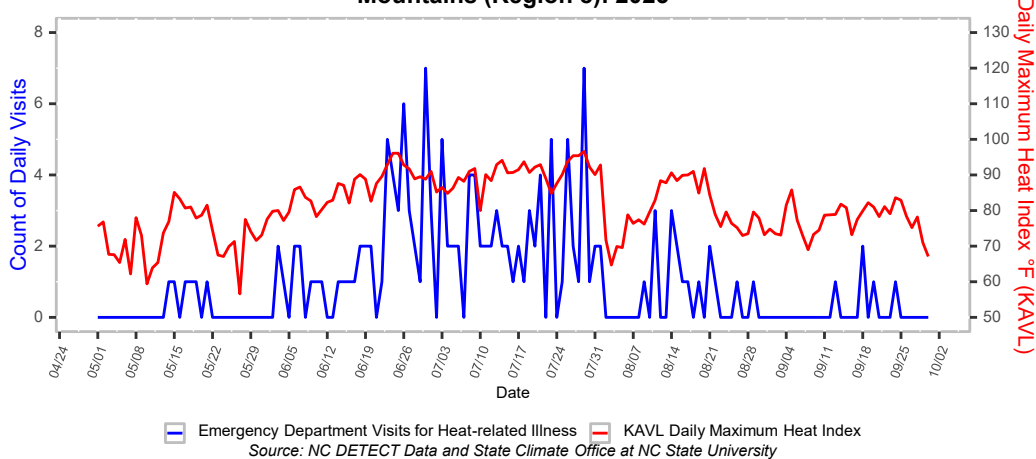
Mountains (Region 8)

Figure 1. Average Weekly Rate of Heat-Related Illness Emergency Department Visits by Sex and Age

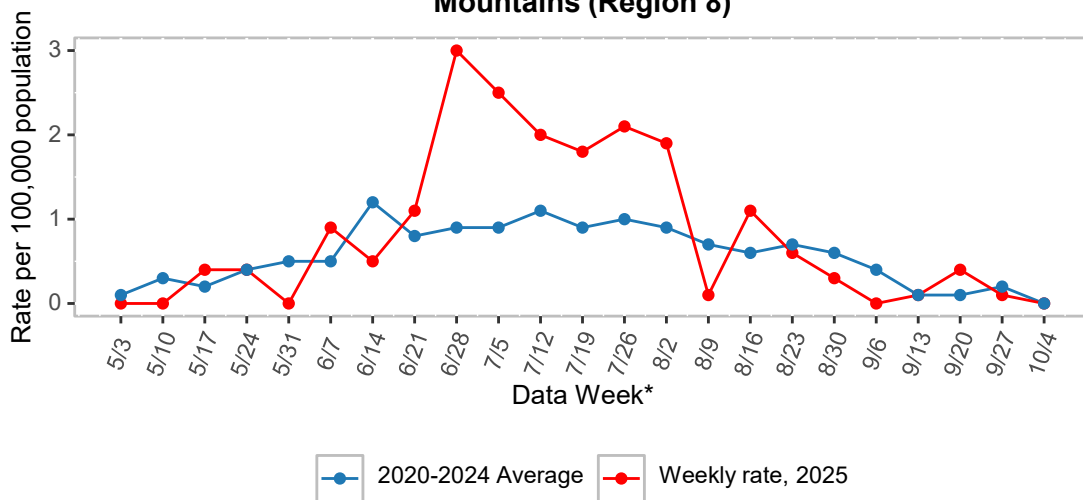
Mountains (Region 8)



**Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index Mountains (Region 8): 2025**

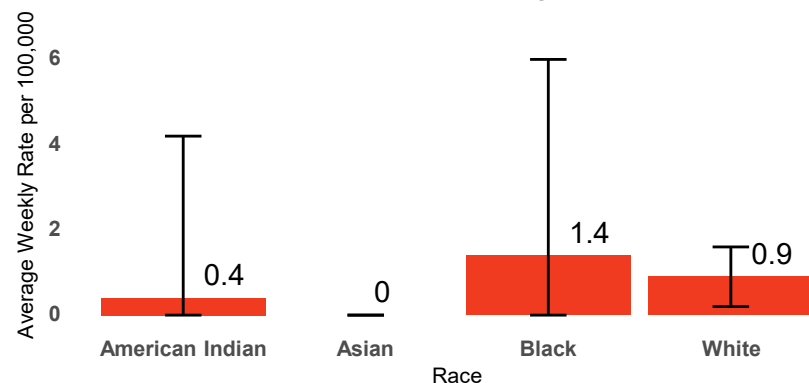


**Figure 4. Rate of Emergency Department Visits for Heat-related Illness Mountains (Region 8)**



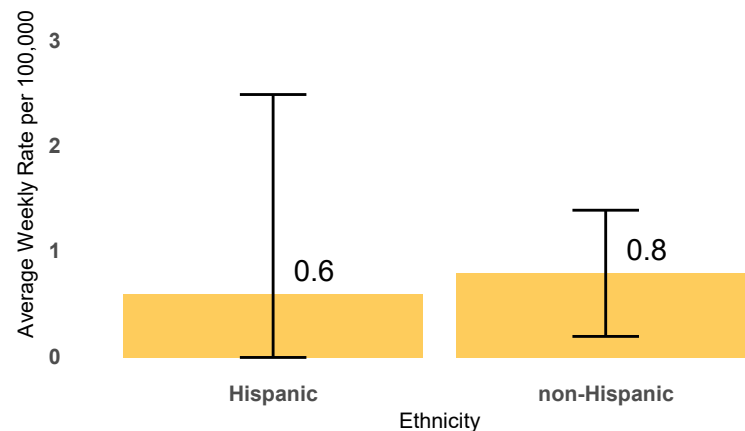
Week ending dates may vary by a few days for earlier years. For data week definitions see [https://ndc.services.cdc.gov/wp-content/uploads/MMWR-Weeks-Calendar\\_2024-2025.pdf](https://ndc.services.cdc.gov/wp-content/uploads/MMWR-Weeks-Calendar_2024-2025.pdf)

**Figure 5. Average Weekly Rate of Heat-related Illness ED Visits by Race per 100,000 Population Mountains (NC DETECT Region 8)**



Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates. The Pacific Islander race category has been removed due to lack of precision in the rates.

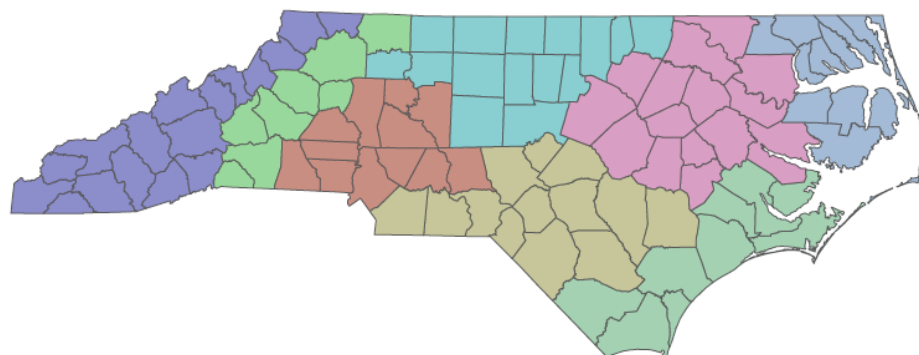
**Figure 6. Average Weekly Rate of Heat-related Illness ED Visits by Ethnicity per 100,000 Population Mountains (NC DETECT Region 8)**



Error bars represent 95% confidence intervals. Wider confidence intervals represent less precise estimates.

## North Carolina HRI Surveillance Regions

(updated for 2025 to match the new Heat Health Alert System regions)



- |                        |                  |
|------------------------|------------------|
| 1. Southeast           | 2. North Central |
| 3. Northeast           | 4. South Central |
| 5. North Coastal Plain | 6. Foothills     |
| 7. Sandhills           | 8. Mountains     |

### About the data

The heat-related illness data in the report is from NC DETECT. NC DETECT is a statewide public health syndromic surveillance system, funded by the NCDHHS Division of Public Health (DPH) Federal Public Health Emergency Preparedness Grant and managed through collaboration between DPH and the UNC-CH Department of Emergency Medicine's Carolina Center for Health Informatics. The NC DETECT Data Oversight Committee is not responsible for the scientific validity or accuracy of methodology, results, statistical analyses, or conclusions presented.

### Climate data

The maximum heat index and minimum temperature data in this report are from the North Carolina State Climate Office. The Raleigh-Durham International Airport weather station (RDU) was selected to represent the climate data for the statewide report. One weather station from each region was selected to represent the climate data for each region. The weather station locations and their corresponding regions are as follows:

Wilmington International Airport (ILM) – Southeast (Region 1), Piedmont Triad Airport (GSO) – North Central (Region 2), Pitt-Greenville Airport (PGV) – Northeast (Region 3), Charlotte/Douglas International Airport (CLT) – South Central (Region 4), Rocky Mount-Wilson Regional Airport (RWI) – North Coastal Plain (Region 5), Morganton-Lenoir Airport (MRN) – Foothills (Region 6), Fayetteville Regional/Grannis Field Airport (FAY) – Sandhills (Region 7), Asheville Regional Airport (AVL) – Mountains (Region 8).

The NCDHHS Climate and Health Program is supported by the Centers for Disease Control and Prevention of the U.S. Department of Health and Human Services (HHS) as part of a financial assistance award totaling \$500,000 annually with 100 percent funded by CDC/HHS. The contents are those of the author(s) and do not necessarily represent the official views of, nor an endorsement, by CDC/HHS, or the U.S. Government. Award No. (Award No. 6NUE1EH001449-03-02).

This report is available on the NCDHHS Climate and Health website at

<https://www.dph.ncdhhs.gov/programs/epidemiology/occupational-and-environmental-epidemiology/climate-and-your-health/extreme-heat/nc-heat-health-data-and-reports>