



Statewide Key Messages

This season to date (May 1-10, 2025):

There have been **85** heat-related illness (HRI) emergency department (ED) visits with an average weekly rate of **0.4 per 100,000 population.** (Note: no weekly report was produced for May 1-3)

This week (May 4-10, 2025):

- There were **43 HRI ED visits** (0.04% of total ED visits), with a rate of 0.4 per 100,000 population
- The rate was highest among **females** aged **20-24 years (0.9 per 100,000 population**) (Figure 1)
- The rate of HRI ED visits was highest in **Southeast NC (0.8** per 100,000 population) (Figure 2; Region 1)
- The most frequent heat related diagnosis code was heat exhaustion (n =12; 50%) (Table 1)
- The daily maximum heat index ranged from **71.6** to **82.4°F** at Raleigh-Durham International Airport (Figure 3)
- The daily minimum temperature was below 70 °F on all 7 days this week

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

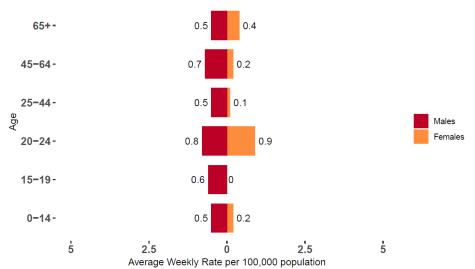
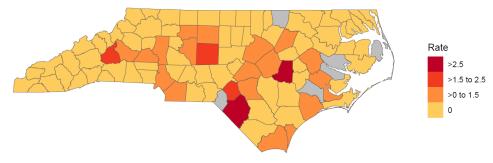


Figure 2. Rate of Heat-related Illness Emergency Department Visits per 100,000 Population



Rates based on counts between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray.

Table 1. Heat-related illness ED visits by Severity

Severity [§]	Number (N =24 [‡])	Percent ⁺
Heat Cramps	1	4.2
Heat Exhaustion	12	50
Heat Syncope	7	16.7
Other Effects	4	4.2

§ Definitions of heat-related illness severity categories:

https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html

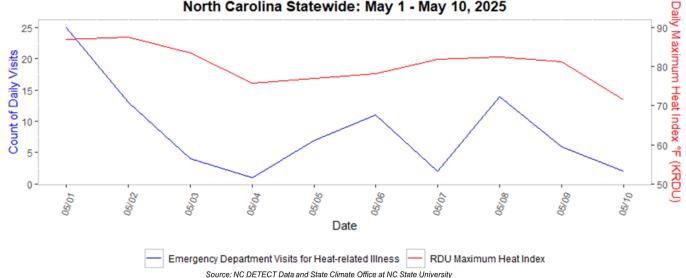
‡ Missing severity data = 19

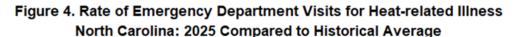
† May not total 100 due to rounding

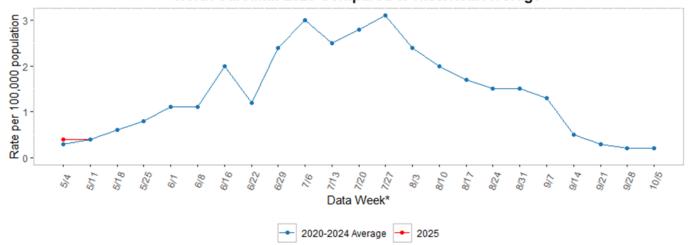




Figure 3. Emergency Department Visits for Heat-related Illness and Max Heat Index North Carolina Statewide: May 1 - May 10, 2025











Southeast NC (Region 1) Key Messages

This season to date (May 1-10, 2025):

There have been **9** heat-related illness (HRI) emergency department (ED) visits with an average weekly rate of **0.5 per 100,000 population.** (Note: no weekly report was produced for May 1-3)

This week (May 4-10, 2025):

- There were **7 HRI ED visits** (0.1% of total ED visits), with a **rate** of **0.8 per 100,000 population**
- The rate was highest among males aged 65+ years (1.2 HRI ED visits per 100,000 population) (Figure 1)
- The rate of HRI ED visits was highest in New Hanover County (1.3 per 100,000 population) (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =2; 66.7%) (Table 1)
- The daily maximum heat index ranged from **68.9 to 83°F** at Wilmington International Airport (Figure 3)
- The daily minimum temperature was below 70 °F on all **7** days this week

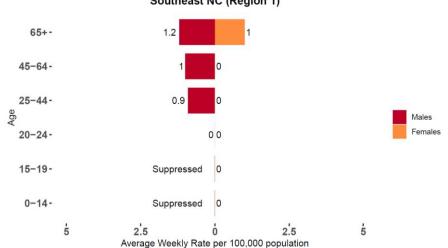
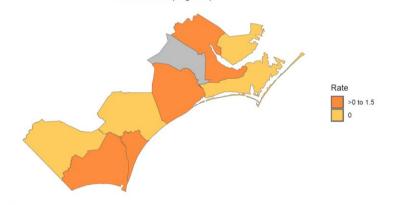


Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age Southeast NC (Region 1)



Rates based on counts between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray.

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index Southeast NC (Region 1): May 1 - May 10, 2025

Southeast NC (Region 1)



Emergency Department Visits for Heat-related Illness KILM Daily Maximum Heat Index Source: NC DETECT Data and State Climate Office at NC State University

Table 1. Heat-related illness ED visits by Severity

Severity [§]	Number (N = 3 [‡])	Percent ⁺
Heat Exhaustion	2	66.7
Heat Syncope	1	33.3

§ Definitions of heat-related illness severity categories:

https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html

‡ Missing severity data = 4

* May not total 100 due to rounding





North Central NC (Region 2) Key Messages

This season to date (May 1-10, 2025):

There have been **19** heat-related illness (HRI) emergency department (ED) visits with an average weekly rate of **0.4 per 100,000 population.** (Note: no weekly report was produced for May 1-3)

This week (May 4-10, 2025):

- There were 7 HRI ED visits (0.04% of total ED visits), with a rate of 0.3 per 100,000 population
- The rate was highest among males aged 45-64 years (1.1 HRI ED visits per 100,000 population) (Figure 1)
- The rate of HRI ED visits was highest in Randolph County (2.0 per 100,000 population) (Figure 2)
- The most frequent heat related diagnosis codes were heat exhaustion and other effects (n =2, 50%) (Table 1)
- The daily maximum heat index ranged from **67.4 to 79.8°F** at at Piedmont Triad International Airport (Figure 3)
- The daily minimum temperature was below 70 °F on all 7 days this week

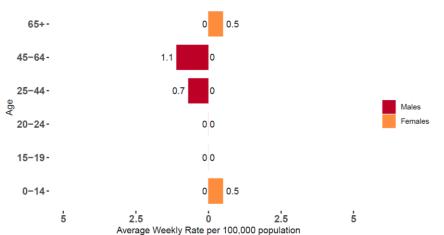


Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age North Central NC (Region 2)

Rate >1.5 to 2.5 >0 to 1.5 0

Rates based on counts between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray.

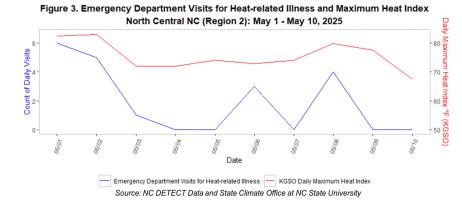


Table 1. Heat-related illness ED visits by Severity

Severity§	Number (N = 4 [‡])	Percent ⁺
Heat Exhaustion	2	50
Other Effects	2	50

§ Definitions of heat-related illness severity categories:

https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html

‡ Missing severity data = 3

* May not total 100 due to rounding

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





The regional report for Northeast NC is not provided this week due to the small number of ED visits for heat-related illness.



North Carolina Weekly Heat-related Illness Surveillance Report: South Central NC (Region 4) May 4-10, 2025



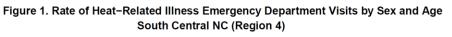
South Central NC (Region 4) Key Messages

This season to date (May 1-10, 2025):

There have been **13** heat-related illness (HRI) emergency department (ED) visits with an average weekly rate of **0.2 per 100,000 population.** (Note: no weekly report was produced for May 1-3)

This week (May 4-10, 2025):

- There were 4 HRI ED visits (0.02% of total ED visits), with a rate of 0.2 per 100,000 population
- The rate was highest among males aged 65+ years (0.6 HRI ED visits per 100,000 population) (Figure 1)
- The rate of HRI ED visits was highest in Catawba County (0.6 per 100,000 population) (Figure 2)
- The most frequent heat related diagnosis codes were heat exhaustion and heat syncope (n =1; 50%) (Table 1)
- The daily maximum heat index ranged from **66.5 to 84.4°F** at Charlotte/Douglas International Airport (Figure 3)
- The daily minimum temperature was below 70 °F on all 7 days this week



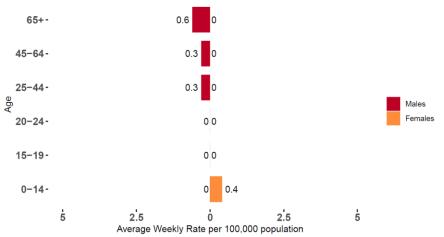
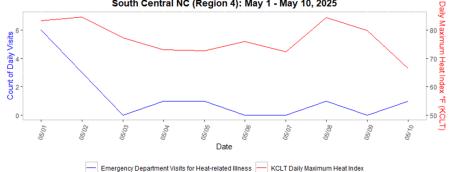




Figure 2. Average Weekly Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population

Rates based on count between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray. Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index South Central NC (Region 4): May 1 - May 10, 2025



Emergency Department Visits for Heat-related Illness KCLT Daily Maximum Heat Index Source: NC DETECT Data and State Climate Office at NC State University

Table 1. Heat-related illness ED visits by Severity

Heat Exhaustion 1 50	+	/erity [§]
		at Exhaustion
Heat Syncope 1 50		at Syncope

§ Definitions of heat-related illness severity categories:

https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html

‡ Missing severity data = 2

+ May not total 100 due to rounding



North Carolina Weekly Heat-Illness Surveillance Report: North Coastal Plain (Region 5) May 4-10, 2025



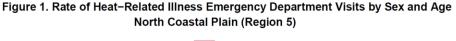
North Coastal Plain(Region 5) Key Messages

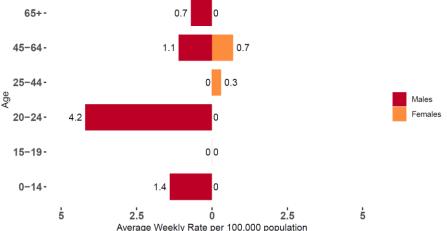
This season to date (May 1-10, 2025):

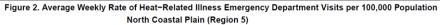
There have been **21** heat-related illness (HRI) emergency department (ED) visits with an average weekly rate of **0.5 per 100,000 population.** (Note: no weekly report was produced for May 1-3)

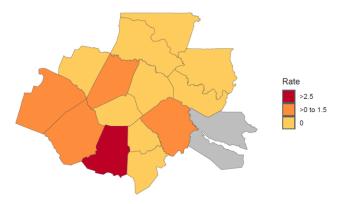
This week (May 4-10, 2025):

- There were 13 HRI ED visits (0.1% of total ED visits), with a rate of 0.6 per 100,000 population
- The rate was highest among males aged 20-24 years (4.2 HRI ED visits per 100,000 population) (Figure 1)
- The rate of HRI ED visits was highest in Wayne County (2.6 per 100,000 population) (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =4; 57.1%) (Table 1)
- The daily maximum heat index ranged from 71.1 to 81°F at Rocky Mount-Wilson Regional Airport (Figure 3)
- The daily minimum temperature was below 70 °F on all 7 days this week

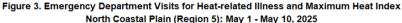


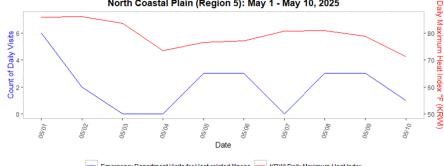






Rates based on counts between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray.





Emergency Department Visits for Heat-related Illness KRWI Daily Maximum Heat Index Source: NC DETECT Data and State Climate Office at NC State University

Table 1. Heat-related illness ED visits by Severity

Severity [§]	Number (N = 7 [‡])	Percent [†]
Heat Exhaustion	4	57.1
Heat Syncope	2	28.6
Other Effects	1	14.3

§ Definitions of heat-related illness severity categories:

https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html

‡ Missing severity data = 6

+ May not total 100 due to rounding



North Carolina Weekly Heat-related Illness Surveillance Report: Foothills (Region 6) May 4-10, 2025



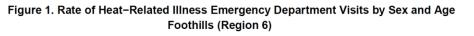
Foothills (Region 6) Key Messages

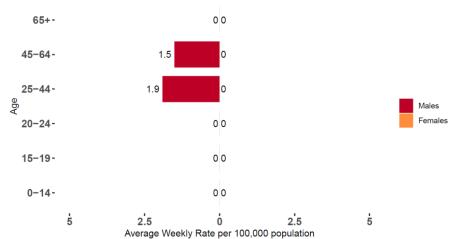
This season to date (May 1-10, 2025):

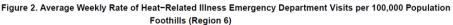
There have been **4** heat-related illness (HRI) emergency department (ED) visits with an average weekly rate of **0.4 per 100,000 population.** (Note: no weekly report was produced for May 1-3)

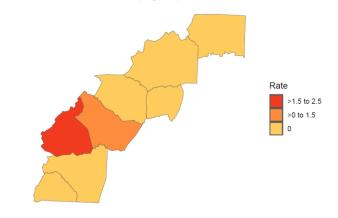
This week (May 4-10, 2025):

- There were 2 HRI ED visits (0.04% of total ED visits), with a rate of 0.4 per 100,000 population
- The rate was highest among males aged 25-44 years (1.9 HRI ED visits per 100,000 population) (Figure 1)
- The rate of HRI ED visits was highest in McDowell County (2.2 per 100,000 population) (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =1) (Table 1)
- The daily maximum heat index ranged from **66.2 to 84.2°F** at Morganton-Lenoir Airport (Figure 3)
- The daily minimum temperature was below 70 °F on all 7 days this week









Rates based on count between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray.

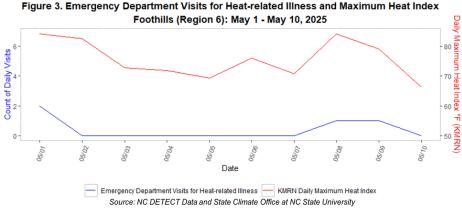


Table 1. Heat-related illness ED visits by Severity

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Severity§	Number (N = 1 [‡])	Percent [†]
Heat Exhaustion	1	100

§ Definitions of heat-related illness severity categories:

https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html

‡ Missing severity data = 1

† May not total 100 due to rounding





Sandhills (Region 7) Key Messages

This season to date (May 1-10, 2025):

There have been **18** heat-related illness (HRI) emergency department (ED) visits with an average weekly rate of **0.7 per 100,000 population.** (Note: no weekly report was produced for May 1-3)

This week (May 4-10, 2025):

- There were 9 HRI ED visits (0.1% of total ED visits), with a rate of 0.7 per 100,000 population
- The rate was highest among **females** aged **20-24 years (7.3 HRI ED** visits per 100,000 population) (Figure 1)
- The rate of HRI ED visits was highest in Robeson County (2.6 per 100,000 population) (Figure 2)
- The most frequent heat related diagnosis code was heat syncope (n =3; 42.9%) (Table 1)
- The daily maximum heat index ranged from **71.6 to 84.2°F** at Fayetteville Regional/Grannis Field Airport (Figure 3)
- The daily minimum temperature was below 70 °F on all 7 days this week

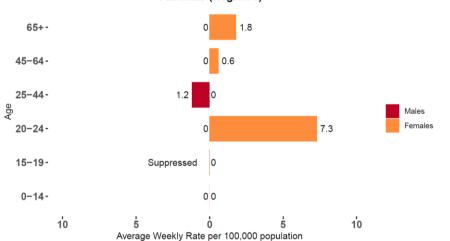
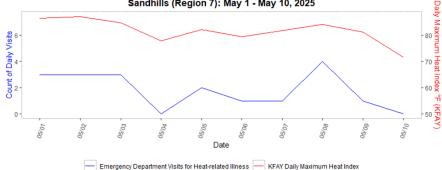


Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age Sandhills (Region 7)

Rate 2.5 5.15 to 2.5 5.0 to 1.5 0 0

Rates based on counts between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray.

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index Sandhills (Region 7): May 1 - May 10, 2025



Source: NC DETECT Data and State Climate Office at NC State University

Table 1. Heat-related illness ED visits by Severity

Severity§	Number (N = 7 [‡])	Percent ⁺
Heat Cramps	1	14.3
Heat Exhaustion	2	28.6
Heat Syncope	3	42.9
Other Effects	1	14.3

§ Definitions of heat-related illness severity categories:

https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html

‡ Missing severity data = 2

+ 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)





The regional report for the Mountain Area is not provided this week due to the small number of ED visits for heat-related illness.





About the data

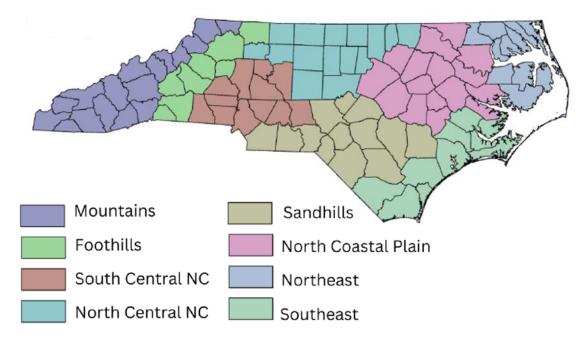
The heat-related illness data in the report is from NC DETECT. NC DETECT is a statewide public health syndromic surveillance system, funded by the NC Division of Public Health (NC DPH) Federal Public Health Emergency Preparedness Grant and managed through collaboration between NC DPH and the UNC-CH Department 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:

North Carolina HRI Surveillance Regions

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



Wilmington International Airport (ILM) – Southeast (Region 1), Piedmont Triad Airport (GSO) – North Central NC (Region 2), Pitt-Greenville Airport (PGV) – Northeast (Region 3), Charlotte/Douglas International Airport (CLT) – South Central NC (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)

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