



Statewide Key Messages

The average weekly rate of heat-related illness (HRI) emergency department (ED) visits **this season to date is 0.8 per 100,000 population.**

This week (June 8-14, 2025):

- There were 195 HRI ED visits (0.2% of total ED visits), with a rate of 1.8 per 100,000 population
- The rate was highest among males aged 25-44 years (3.4 per 100,000 population) (Figure 1)
- The rate of HRI ED visits was highest in the **Foothills** (**3.2 per 100,000 population**). (Figure 2; Region 6)
- The most frequent heat related diagnosis code was heat exhaustion (n = 58; 59.2%) (Table 1)
- The maximum daily heat index ranged from 90.3 to 98.7°F at Raleigh-Durham International Airport (Figure 3)
- There were ${\bf 6}$ days when the minimum temperature was above $70^\circ F$

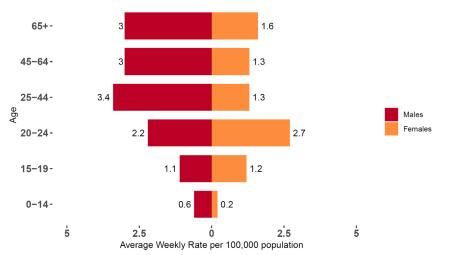
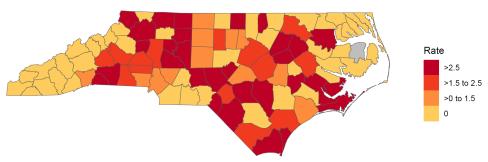


Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age



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 =98 [‡])	Percent ⁺
Heat Exhaustion	58	59.2
Heat Syncope	18	18.4
Other Effects	22	22.4

§ Definitions of heat-related illness severity categories:

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

‡ Missing severity data = 97

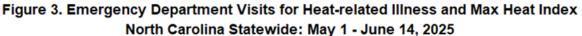
† May not total 100 due to rounding

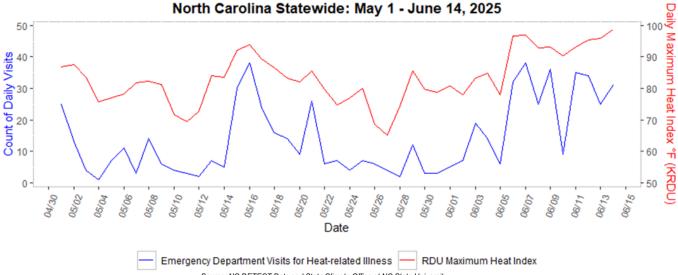
|| other effects include heat fatigue, heat edema, other effects of heat and light, and other effects unspecified

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



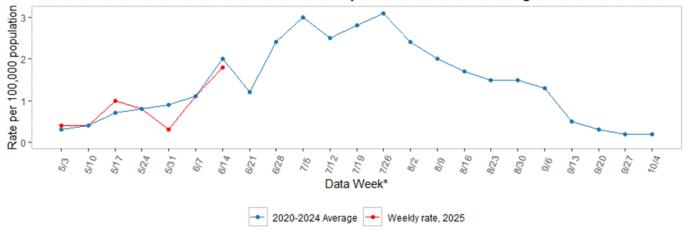






Source: NC DETECT Data and State Climate Office at NC State University





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





Southeast NC (Region 1) Key Messages

The average weekly rate of heat-related illness emergency department visits **this season to date is 1.3 per 100,000 population.**

This week (June 8-14, 2025):

- There were 21 HRI ED visits (0.3% of total ED visits), with a rate of 2.4 per 100,000 population
- The rate was highest among males aged 45-64 years (4.9 HRI ED visits per 100,000 population) (Figure 1)
- The rate of HRI ED visits was highest in Pamlico County (8.1 per 100,000 population) (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n = 9; 69.2%) (Table 1)
- The maximum daily heat index ranged from 85.5 to 97.6°F at Wilmington International Airport (Figure 3)
- There were 7 days when the minimum temperature was above 70°F

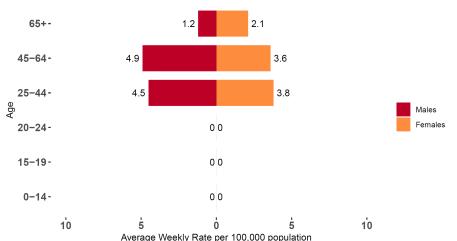


Figure 1. Rate of Heat–Related Illness Emergency Department Visits by Sex and Age Southeast (Region 1)



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

Southeast (Region 1)

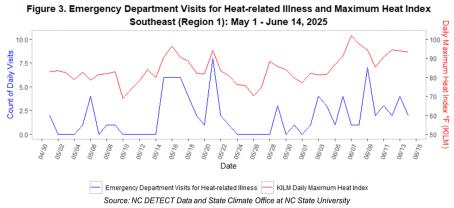


Table 1. Heat-related illness ED visits by Severity

Severity§	Number (N = 13 [‡])	Percent ⁺
Heat Exhaustion	9	69.2
Heat Syncope	2	15.4
Other Effects	2	15.4

§ Definitions of heat-related illness severity categories:

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

‡ Missing severity data = 8

+ May not total 100 due to rounding



North Carolina Weekly Heat-related Illness Surveillance Report: North Central NC (Region 2) June 8-14, 2025



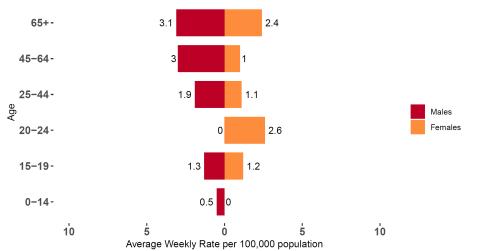
North Central NC (Region 2) Key Messages

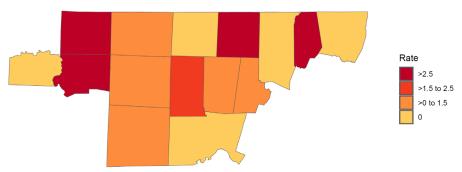
The average weekly rate of heat-related illness emergency department visits **this season to date is 0.8 per 100,000 population.**

This week (June 8-14, 2025):

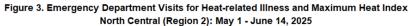
- There were **34** HRI ED visits (0.2% of total ED visits), with a rate of **1.6 per 100,000 population**
- The rate was highest among males aged 65+ years (3.1 HRI ED visits per 100,000 population) (Figure 1)
- The rate of HRI ED visits was highest in Vance County (9.4 per 100,000 population) (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n = 13; 72.2%) (Table 1)
- The maximum daily heat index ranged from **83.8 to 91.5°F** at Piedmont Triad International Airport (Figure 3)
- There were 2 days when the minimum temperature was above 70°F

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





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



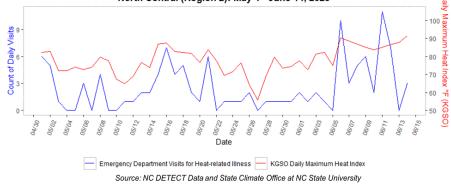


Table 1. Heat-related illness ED visits by Severity

Severity [§]	Number (N = 18 [‡])	Percent ⁺
Heat Exhaustion	13	72.2
Heat Syncope	3	16.7
Other Effects	2	11.1

§ Definitions of heat-related illness severity categories:

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

‡ Missing severity data = 16

+ 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 (Region 2)





Northeastern NC (Region 3) Key Messages

The average weekly rate of heat-related illness emergency department visits **this season to date is 0.6 per 100,000 population**

This week (June 8-14, 2025):

- There was 1 HRI ED visit (0.05% of total ED visits), with a rate of 0.5 per 100,000 population
- The rate was highest among males aged 65+ years (5.2 HRI ED visits per 100,000 population) (Figure 1)
- The maximum daily heat index ranged from **89.5 to 101.9°F** at Pitt-Greenville Airport (Figure 3)
- There were 5 days when the minimum temperature was above 70°F

Figure 2 is not provided for the Northeast this week due to the small number of ED visits for heat-related illnesses.

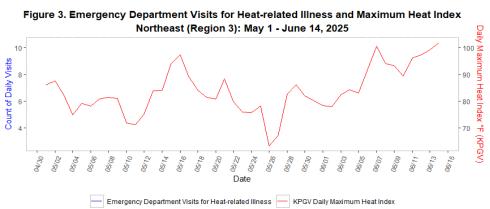


Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age Northeast (Region 3)

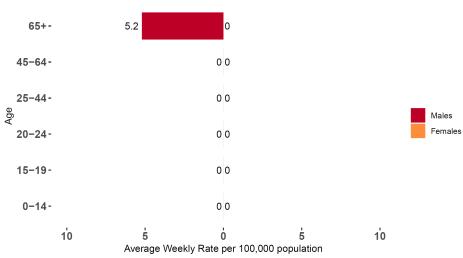


Table 1 is not provided for the Northeast this week due to the small number of ED visits for heat-related illnesses.



North Carolina Weekly Heat-related Illness Surveillance Report: South Central NC (Region 4) June 8-14, 2025

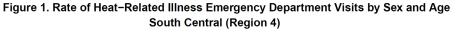


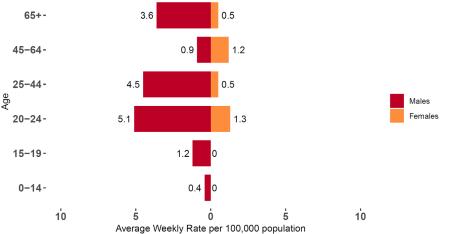
South Central NC (Region 4) Key Messages

The average weekly rate of heat-related illness emergency department visits **this season to date is 0.7 per 100,000 population**

This week (June 8-14, 2025):

- There were **39** HRI ED visits (0.2% of total ED visits), with a rate of **1.5 per 100,000 population**
- The rate was highest among males aged 20-24 years (5.1 HRI ED visits per 100,000 population) (Figure 1)
- The rate of HRI ED visits was highest in **Davidson County (4.7 per 100,000 population)** (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n = 10; 52.6%) (Table 1)
- The maximum heat daily index ranged from **86.8 to 93.7°F** at Charlotte/Douglas International Airport (Figure 3)
- There were 4 days when the minimum temperature was above 70°F





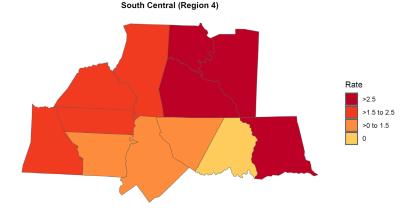
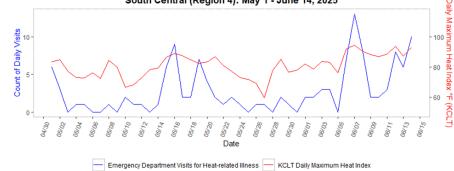


Figure 2. Average Weekly Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population

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

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index South Central (Region 4): May 1 - June 14, 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 = 19 [‡])	Percent ⁺
Heat Exhaustion	10	52.6
Heat Syncope	4	21.1
Other Effects	5	26.3

§ Definitions of heat-related illness severity categories:

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

‡ Missing severity data = 20

+ May not total 100 due to rounding





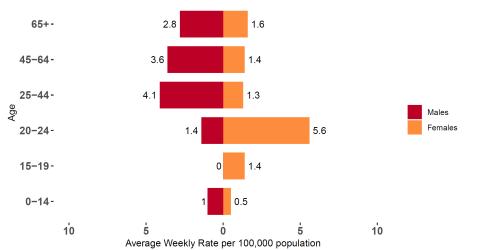
North Coastal Plain Area (Region 5) Key Messages

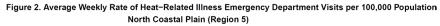
The average weekly rate of heat-related illness emergency department visits **this season to date is 0.9 per 100,000 population.**

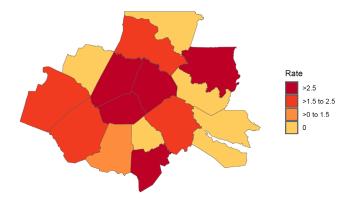
This week (June 8-14, 2025):

- There were **46** HRI ED visits (0.2% of total ED visits), with a rate of **2.1 per 100,000 population**
- The rate was highest among females aged 20-24 years (5.6 HRI ED visits per 100,000 population) (Figure 1)
- The rate of HRI ED visits was highest in Wilson County (7.6 per 100,000 population) (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n = 14; 66.7%) (Table 1)
- The maximum daily heat index ranged from **87.6 to 96.4°F** at Rocky Mount-Wilson Regional Airport (Figure 3)
- There were **4** days when the minimum temperature was above 70°F

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

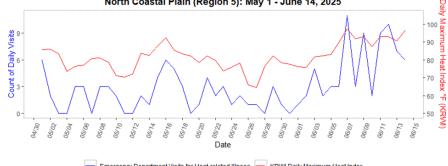






Rates based on counts between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray.

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index North Coastal Plain (Region 5): May 1 - June 14, 2025



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 = 21 [‡])	Percent ⁺
Heat Exhaustion	14	66.7
Heat Syncope	2	9.5
Other Effects	5	23.8

§ Definitions of heat-related illness severity categories:

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

‡ Missing severity data = 25

+ May not total 100 due to rounding



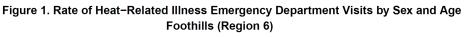


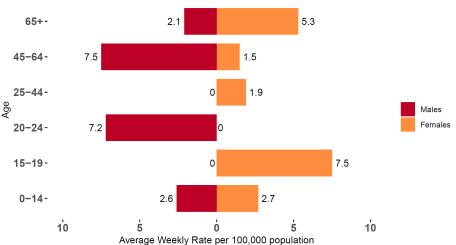
Foothills Area (Region 6) Key Messages

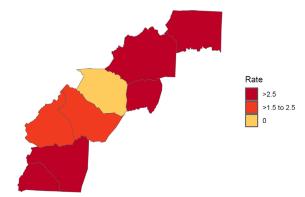
The average weekly rate of heat-related illness emergency department visits **this season to date is 1 per 100,000 population.**

This week (June 8-14, 2025):

- There were 15 HRI ED visits (0.3% of total ED visits), with a rate of 3.2 per 100,000 population
- The rate was highest among males aged 45-64 and females aged 15-19 years (7.5 HRI ED visits per 100,000 population) (Figure 1)
- The rate of HRI ED visits was highest in Surry County (5.6 per 100,000 population) (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n = 4; 57.1%) (Table 1)
- The maximum daily heat index ranged from **85.9 to 97.3°F** at Morganton-Lenoir Airport (Figure 3)
- The daily minimum temperature was below 70°F on all 7 days this week

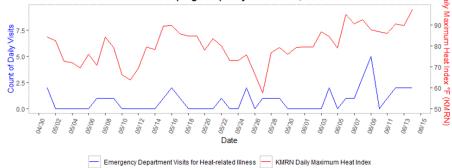






Rates based on counts between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray.

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index Foothills (Region 6): May 1 - June 14, 2025



Emergency Department Visits for Heat-related Illness KIMRN 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	1	14.3
Other Effects	2	28.6

§ Definitions of heat-related illness severity categories:

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

‡ Missing severity data = 8

* May not total 100 due to rounding

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

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





Sandhills Area (Region 7) Key Messages

The average weekly rate of heat-related illness emergency department visits **this season to date is 1.2 per 100,000 population.**

This week (June 8-14, 2025):

- There were 36 HRI ED visits (0.3% of total ED visits), with a rate of 2.8 per 100,000 population
- The rate was highest among males aged 65+ years (6.9 HRI ED visits per 100,000 population) (Figure 1)
- The rate of HRI ED visits was highest in **Moore County (6.8 per 100,000 population)** (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n = 7; 38.9%) (Table 1)
- The maximum daily heat index ranged from **82.1 to 96°F** at Fayetteville Regional/Grannis Field Airport (Figure 3)
- There were 6 days when the minimum temperature was above 70°F

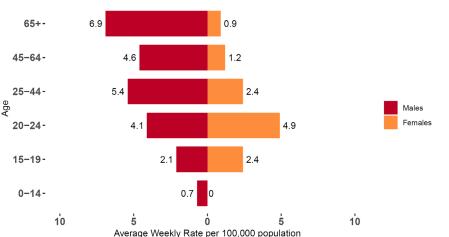


Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age Sandhills (Region 7)

Rate =2.5 =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.

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index Sandhills (Region 7): May 1 - June 14, 2025

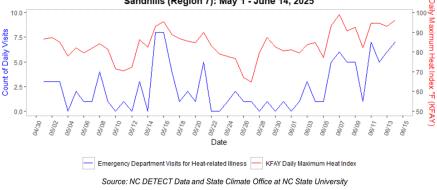


Table 1. Heat-related illness ED visits by Severity

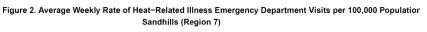
Severity [§]	Number (N = 18 [‡])	Percent [†]
Heat Exhaustion	7	38.9
Heat Syncope	5	27.8
Other Effects	6	33.3

§ Definitions of heat-related illness severity categories:

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

‡ Missing severity data = 18

+ May not total 100 due to rounding





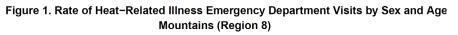


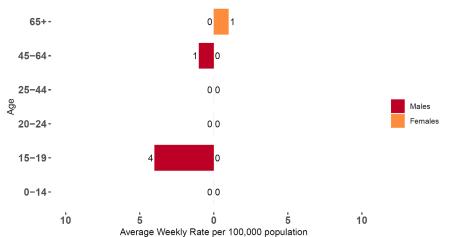
Mountain Area (Region 8) Key Messages

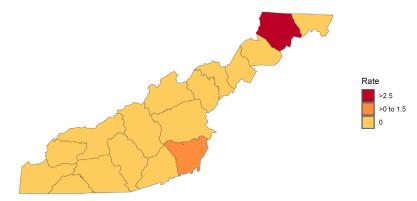
The average weekly rate of heat-related illness emergency department visits **this season to date is 0.3 per 100,000 population.**

This week (June 8-14, 2025):

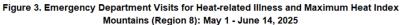
- There were **3** HRI ED visits (0.04% of total ED visits), with a rate of **0.4 per 100,000 population**
- The rate was highest among males aged 15-19 years (4 HRI ED visits per 100,000 population) (Figure 1)
- The rate of HRI ED visits was highest in Ashe County (7.5 per 100,000 population) (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion and (n = 1; 50%) (Table 1)
- The maximum daily heat index ranged from **78.3 to 87.6°F** at Asheville 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.



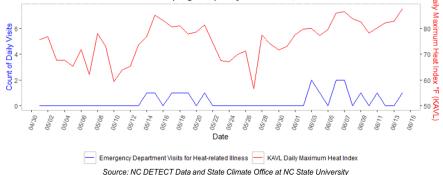


Table 1. Heat-related illness ED visits by Severity

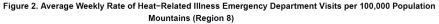
Severity [§]	Number (N = 2 [‡])	Percent ⁺
Heat Exhaustion	1	50
Heat Syncope	1	50

§ 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







North Carolina HRI Surveillance Regions

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





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:

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)

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