



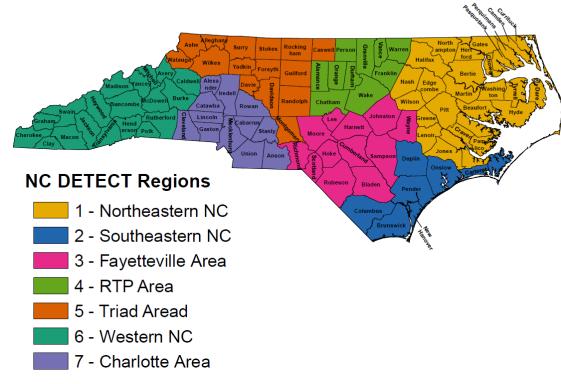
About the data

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. One weather station from each NC DETECT region was selected to represent the climate data for each region. The weather station locations and their corresponding regions are as follows:

The data in this report is summarized by NC DETECT Region.



Pitt-Greenville Airport (PGV) – Northeastern (NC DETECT Region 1), Wilmington International Airport (ILM) – Southeastern (NC DETECT Region 2), Fayetteville Regional Airport (FAY) – Fayetteville Area (NC DETECT Region 3), Raleigh-Durham International Airport (RDU) – RTP Area (NC DETECT Region 4), Smith Reynolds Airport (INT) – Triad Area (NC DETECT Region 5), Asheville Regional Airport (AVL) – Western Area (NC DETECT Region 6), Charlotte/Douglas International Airport (CLT) – Charlotte Area (NC DETECT Region 7)

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North Carolina Statewide Weekly Heat-related Illness Surveillance Report May 12-18, 2024



Statewide Key Messages

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

This week (May 12-18, 2024):

- There were 27 HRI ED visits (.03% of total ED visits), with a rate of 0.3 per 100,000 population.
- The rate was highest among females aged 20-24 years (0.6 per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in the Southeastern NC) (0.6 per 100,000 population). (Figure 2; NC DETECT Region 2)
- The most frequent heat related diagnosis code was other effects (n =4). (Table 1)
- The maximum heat index ranged from 69.8 to 85.5°F at Raleigh-Durham International Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.

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

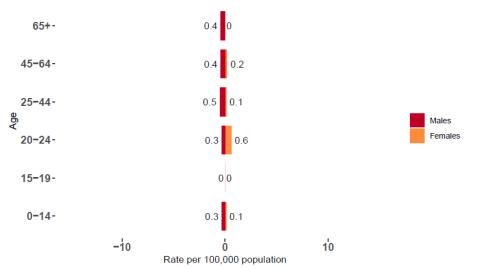
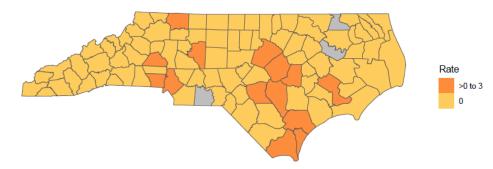


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population



Counties in gray have been suppressed for confidentiality due to small numbers

Table 1. Heat-related illness ED visits by Severity

Severity§	Number (N = 9 [‡])	Percent [†]
Heat Exhaustion	3	33.3
Heat Syncope	2	22.2
Other Effects	4	44.4

§ Definitions of heat-related illness severity categories:

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

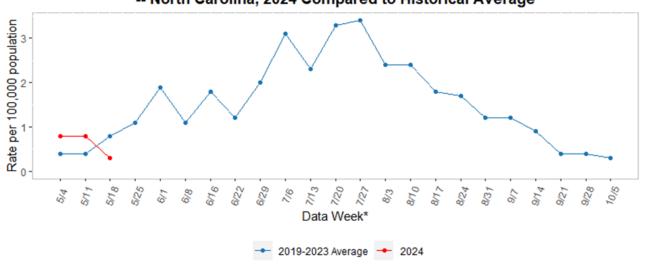
- **‡** Missing severity data = 18
- † May not total 100 due to rounding
- || other effects include heat fatigue, heat edema, other effects of heat and light, and other effects unspecified





Figure 3. Emergency Department Visits for Heat-related Illness and Max Heat Index May 1 - May 18, 2024 Daily Maximum Heat Index °F (KRDU) 60 Daily Visits 0 05/01 02/05 05/03 05/04 90/90 90/50 20/90 90/50 02/00 91/50 Date Emergency Department Visits for Heat-related Illness RDU Maximum Heat Index

Figure 4. Rate of Emergency Department Visits for Heat Related Illness
-- North Carolina, 2024 Compared to Historical Average





North Carolina Weekly Heat-related Illness Surveillance Report: Northeastern NC (NC DETECT Region 1) May 12-18, 2024



Northeastern NC (NC DETECT Region 1) Key Messages

The average weekly rate of heat-related illness emergency department visits this season to date is 1.1 per 100,000 population.

This week (May 12-18, 2024):

- There were **3** HRI ED visits (0.03% of total ED visits), with a rate of **0.3 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 Craven County (1 per 100,000 population). (Figure 2)
- The most frequent heat related diagnosis codes were heat exhaustion (n =1), and other effects (n =1). (Table 1)
- The maximum heat index ranged from 72.9 to 85.4°F at Pitt-Greenville Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.

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

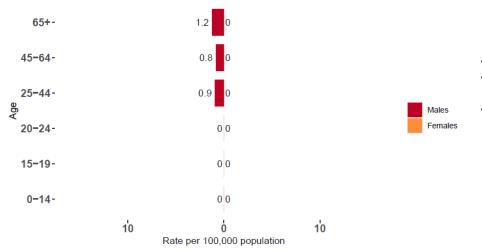
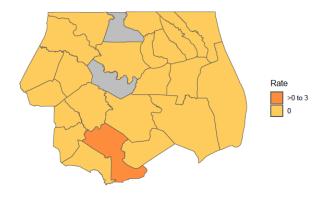
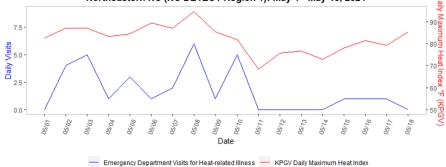


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population Northeastern NC (NC DETECT Region 1)



Counties in gray have been suppressed for confidentiality due to small numbers

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index Northeastern NC (NC DETECT Region 1): May 1 - May 18, 2024



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

Table 1. Heat-related illness ED visits by Severity

Tuble 2. Heat Telated IIIIess 22 Tibles by Severity			
Severity [§]	Number (N = 2 [‡])	Percent [†]	
Heat Exhaustion	1	50	
Other Effects	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

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

Southeastern NC (NC DETECT 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 (May 12-18, 2024):

- There were 5 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 45-64 years (2.1 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in Brunswick County (2.1 per 100,000 population). (Figure 2)
- The most frequent heat related diagnosis code was other effects (n = 2). (Table 1)
- The maximum heat index ranged from 74.3 to 90.1°F at Wilmington International Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.

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

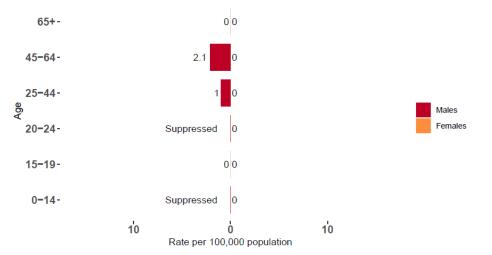
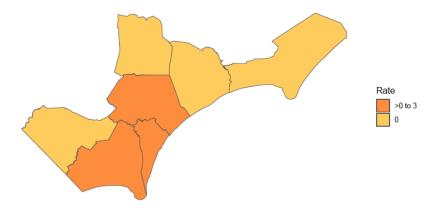


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population Southeastern NC (NC DETECT Region 2)



Counties in gray have been suppressed for confidentiality due to small numbers

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index Southeastern NC (NC DETECT Region 2): May 1 - May 18, 2024

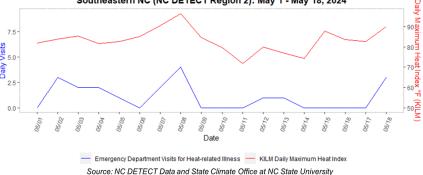


Table 1. Heat-related illness ED visits by Severity

Table 1. Heat-related lilliess ED visits by Severity				
Severity§	Number (N = 2 [‡])	Percent [†]		
Other Effects	2	100		

§ 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

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

North Carolina Weekly Heat-related Illness Surveillance Report: Fayetteville Area (NC DETECT Region 3) May 12-18, 2024

NC DETECT 3

Fayetteville Area (NC DETECT Region 3) 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 (May 12-18, 2024):

- There were 6 HRI ED visits (0.04% of total ED visits), with a rate of
 0.5 per 100,000 population.
- The rate was highest among females aged 20-24 years (2.3 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in Sampson County (1.7 per 100,000 population). (Figure 2)
- The most frequent heat related diagnosis codes were heat exhaustion (n =1), and other effects (n =1). (Table 1)
- The maximum heat index ranged from 72.9 to 84.1°F at Fayetteville Regional Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.

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

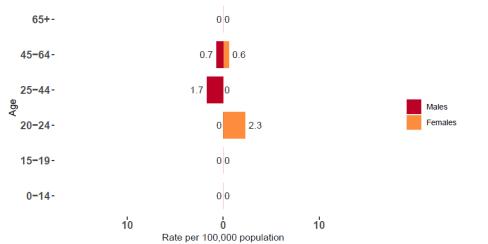
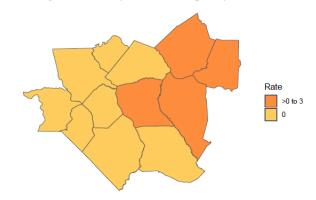
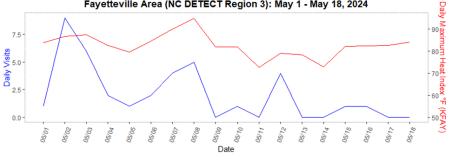


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population Fayetteville Area (NC DETECT Region 3)



Counties in gray have been suppressed for confidentiality due to small numbers

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index Fayetteville Area (NC DETECT Region 3): May 1 - May 18, 2024



Emergency Department Visits for Heat-related Illness
 KFAY 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 = 2 [‡])	Percent [†]
Heat Exhaustion	1	50
Other Effects	1	50

§ 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

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



North Carolina Weekly Heat-related Illness Surveillance Report: RTP Area (NC DETECT Region 4) May 12-18, 2024



RTP Area (NC DETECT Region 4) Key Messages

The average weekly rate of heat-related illness emergency department visits this season to date is 0.4 per 100,000 population.

This week (May 12-18, 2024):

- There were 2 HRI ED visits (0.01% of total ED visits), with a rate of
 0.1 per 100,000 population.
- The rate was highest among males aged 45-64 years (0.4 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in Wake County (0.2 per 100,000 population). (Figure 2)
- The maximum heat index ranged from 69.8 to 85.5°F at Raleigh-Durham International Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.

Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age RTP Area (NC DETECT Region 4)

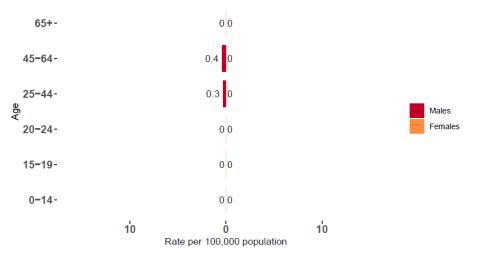
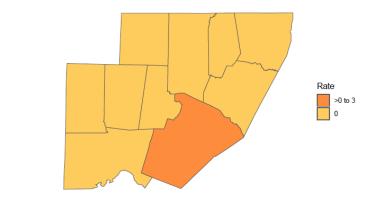


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population RTP Area (NC DETECT Region 4)



Counties in gray have been suppressed for confidentiality due to small numbers

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index RTP Area (NC DETECT Region 4): May 1 - May 18, 2024

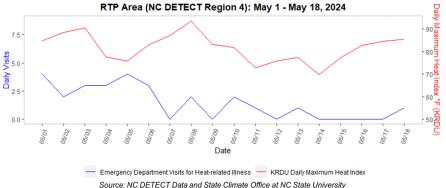


Table 1 is not provided for the RTP Area this week due to small numbers



North Carolina Weekly Heat-Illness Surveillance Report: Triad Area (NC DETECT Region 5) May 12-18, 2024



Triad Area (NC DETECT Region 5) Key Messages

The average weekly rate of heat-related illness emergency department visits this season to date is 0.5 per 100,000 population.

This week (May 12-18, 2024):

- There were 2 HRI ED visits (0.01% of total ED visits), with a rate of
 0.1 per 100,000 population.
- The rate was highest among males aged 65+ years (0.7 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in Surry County (1.4 per 100,000 population). (Figure 2)
- The maximum heat index ranged from 67.4 to 82.2°F at Smith Reynolds Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.

Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age Triad Area (NC DETECT Region 5)

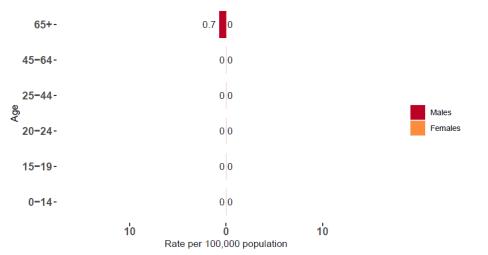
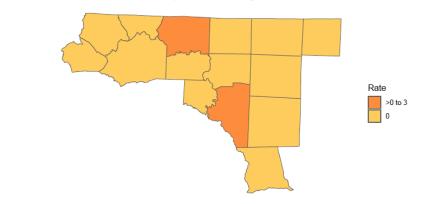


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population
Triad Area (NC DETECT Region 5)



Counties in gray have been suppressed for confidentiality due to small numbers

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index
Triad Area (NC DETECT Region 5): May 1 - May 18, 2024

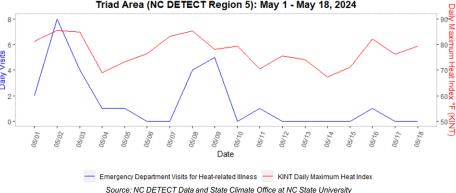


Table 1 is not provided for the Triad Area this week due to small numbers





Western NC (NC DETECT Region 6) Key Messages

The average weekly rate of heat-related illness emergency department visits this season to date is 0.1 per 100,000 population.

This week (May 12-18, 2024):

- There were 0 HRI ED visits (0% of total ED visits), with a rate of 0 per 100,000 population.
- The maximum heat index ranged from 65 to 77.3°F at Asheville Regional Airport. (Figure 3)
- There were 0 days when the minimum temperature did not drop below 70°F.

Figure 1 is not provided for Western NC this week due to small numbers

Figure 2 is not provided for Western NC this week due to small numbers

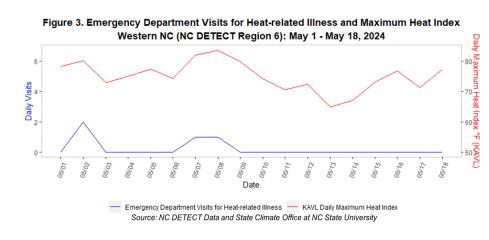


Table 1 is not provided for Western NC this week due to small numbers



North Carolina Weekly Heat-related Illness Surveillance Report: Charlotte Area (NC DETECT Region 7) May 12-18, 2024



Charlotte Area (NC DETECT Region 7) 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 (May 12-18, 2024):

- There were 9 HRI ED visits (0.04% of total ED visits), with a rate of
 0.3 per 100,000 population.
- The rate was highest among females aged 20-24 years (1.2 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in Catawba County (1.24 per 100,000 population). (Figure 2)
- The most frequent heat related diagnosis code was heat syncope (n =2). (Table 1)
- The maximum heat index ranged from 71.7 to 83.2°F at Charlotte/Douglas International Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.

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

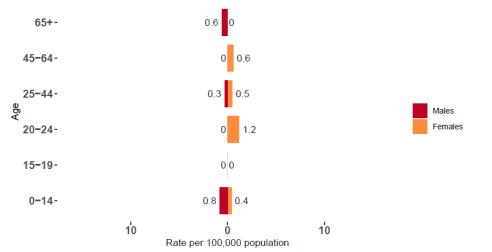
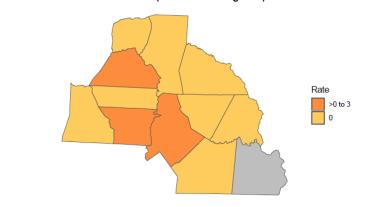


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population Charlotte Area (NC DETECT Region 7)



Counties in gray have been suppressed for confidentiality due to small numbers

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index

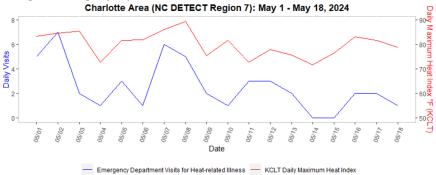


Table 1. Heat-related illness ED visits by Severity

Tuble 1: Heat related lilless LD visits by Severity				
Severity [§]	Number (N = 2 [‡])	Percent [†]		
Heat Syncope	2	100		

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

§ Definitions of heat-related illness severity categories:

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

- **‡** Missing severity data = 7
- † May not total 100 due to rounding

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