

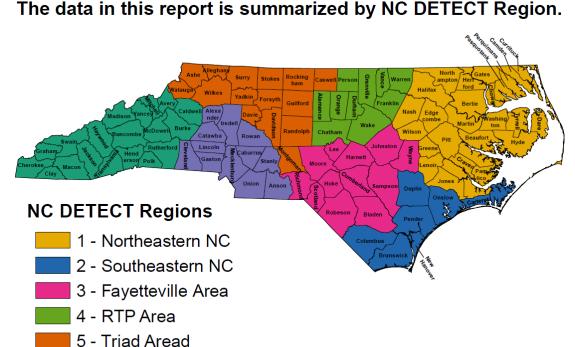


About the data

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:



- 6 Western NC
 - 7 Charlotte Area

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)

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).





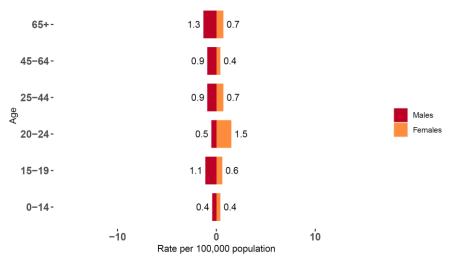
Statewide Key Messages

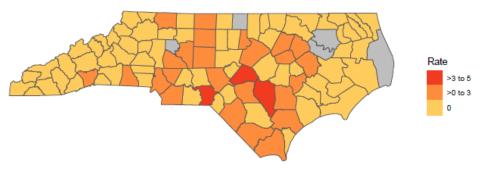
The average weekly rate of heat-related illness (HRI) emergency department (ED) visits **this season to date is 0.7 per 100,000 population.**

This week (May 5-11, 2024):

- There were **77 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 (1.5 per 100,000 population**). (Figure 1)
- The rate of HRI ED visits was highest in the Northeastern NC) (1.3 per 100,000 population). (Figure 2; NC DETECT Region 1)
- The most frequent heat related diagnosis code was heat exhaustion (n =15). (Table 1)
- The maximum heat index ranged from **72.8** to **93.6°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





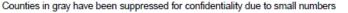


Table 1. Heat-related illness ED visits by Severity

Severity [§]	Number (N = 31 [‡])	Percent ⁺
Heat Exhaustion	15	48.4
Heat Stroke	1	3.2
Heat Syncope	8	25.8
Other Effects	7	22.6

§ Definitions of heat-related illness severity categories:

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

‡ Missing severity data = 46

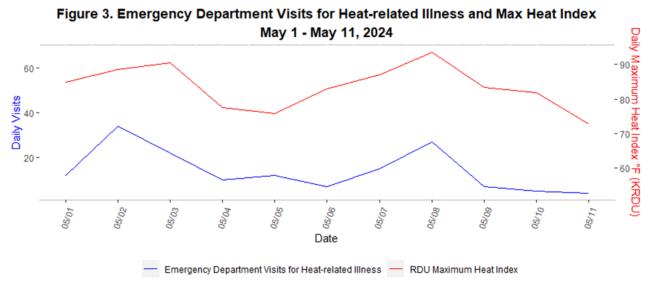
* May not total 100 due to rounding

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

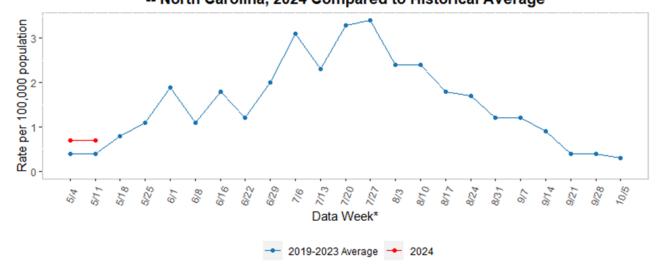
Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population











NC DEPARTMENT OF HEALTH AND HUMAN SERVICES





Northeastern NC (NC DETECT Region 1) Key Messages

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

This week (May 5-11, 2024):

- There were **12** HRI ED visits (0.1% of total ED visits), with a rate of **1.3 per 100,000 population.**
- The rate was highest among males aged 65+ years (3.7 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in **Edgecombe County (2 per 100,000 population).** (Figure 2)
- The most frequent heat related diagnosis code was other effects (n =3). (Table 1)
- The maximum heat index ranged from **68.4 to 94.7°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)

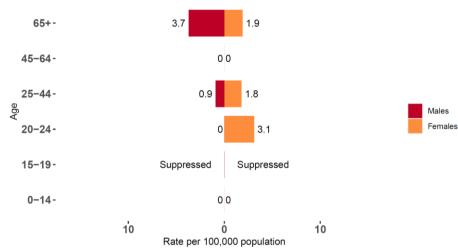
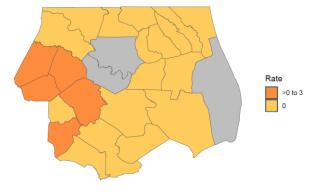


Figure 2. Rate of Heat–Related Illness Emergency Department Visits per 100,000 Population Northeastern NC (NC DETECT Region 1)



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 11, 2024

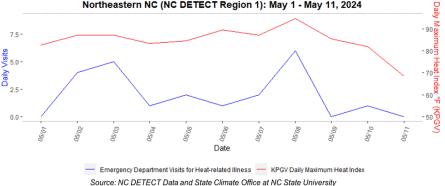


Table 1. Heat-related illness ED visits by Severity

Severity [§]	Number (N = 6 [‡])	Percent ⁺
Heat Exhaustion	1	16.7
Heat Syncope	2	33.3
Other Effects	3	50
0 - 6		

§ 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: Southeastern NC (NC DETECT Region 2) May 5-11, 2024



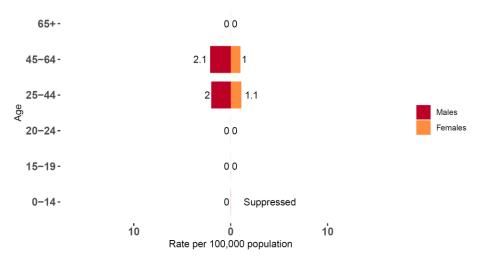
Southeastern NC (NC DETECT Region 2) Key Messages

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

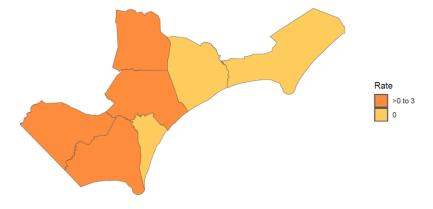
This week (May 5-11, 2024):

- There were 7 HRI ED visits (0.1% of total ED visits), with a rate of 0.9 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 (2.9 per . 100,000 population). (Figure 2)
- The most frequent heat related diagnosis code was heat . exhaustion (n =1). (Table 1)
- The maximum heat index ranged from 71.9 to 96.4°F at Wilmington International Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.

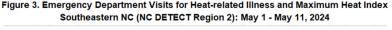
Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age Southeastern NC (NC DETECT Region 2)







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



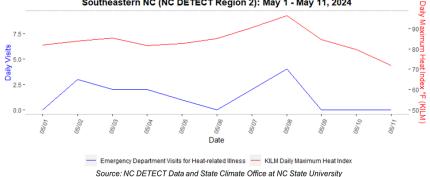


Table 1. Heat-related illness ED visits by Severity

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 = 6

+ May not total 100 due to rounding



North Carolina Weekly Heat-related Illness Surveillance Report: Fayetteville Area (NC DETECT Region 3) May 5-11, 2024



Fayetteville Area (NC DETECT Region 3) Key Messages

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

This week (May 5-11, 2024):

- There were 13 HRI ED visits (0.1% of total ED visits), with a rate of 1 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 Richmond County (4.6 per 100,000 population). (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =3). (Table 1)
- The maximum heat index ranged from 72.6 to 94.7°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)

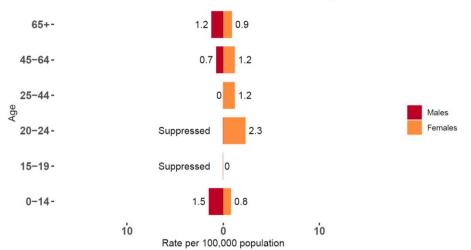
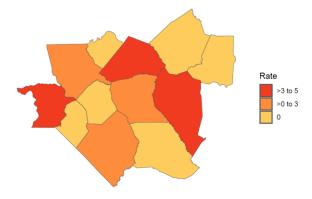
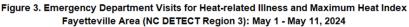
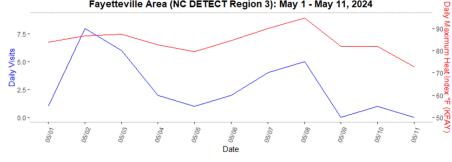


Figure 2. Rate of Heat–Related Illness Emergency Department Visits per 100,000 Population Fayetteville Area (NC DETECT Region 3)



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





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 = 6 [‡])	Percent [†]
Heat Exhaustion	3	50
Heat Syncope	2	33.3
Other Effects	1	16.7

§ 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



North Carolina Weekly Heat-related Illness Surveillance Report: RTP Area (NC DETECT Region 4) May 5-11, 2024



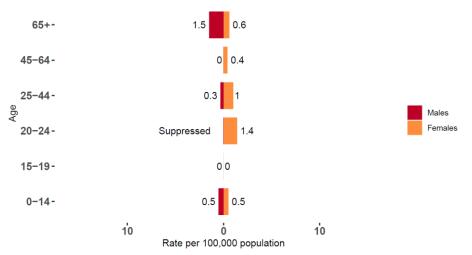
RTP Area (NC DETECT Region 4) Key Messages

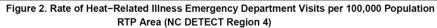
The average weekly rate of heat-related illness emergency department visits **this season to date is 0.6 per 100,000 population.**

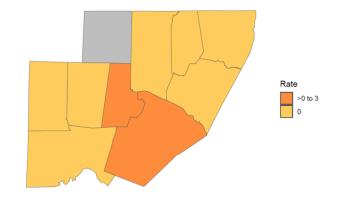
This week (May 5-11, 2024):

- There were 12 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 65+ years (1.5 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in **Durham County (0.6 per 100,000 population).** (Figure 2)
- The most frequent heat related diagnosis code was **heat** exhaustion (n =3). (Table 1)
- The maximum heat index ranged from 72.8 to 93.6°F at Raleigh-Durham International Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.

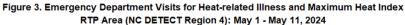
Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age RTP Area (NC DETECT Region 4)

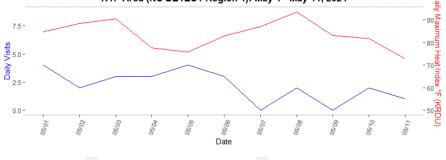






Counties in gray have been suppressed for confidentiality due to small numbers





Emergency Department Visits for Heat-related Illness — KRDU 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 = 4 [‡])	Percent ⁺
Heat Exhaustion	3	75
Heat Syncope	1	25

§ 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-Illness Surveillance Report: Triad Area (NC DETECT Region 5) May 5-11, 2024



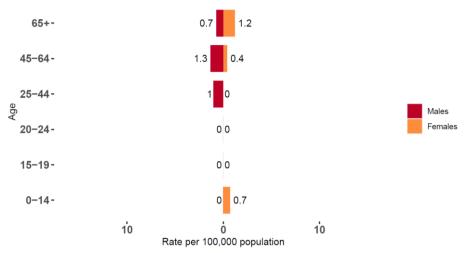
Triad Area (NC DETECT Region 5) Key Messages

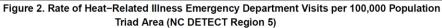
The average weekly rate of heat-related illness emergency department visits this season to date is 0.8 per 100,000 population.

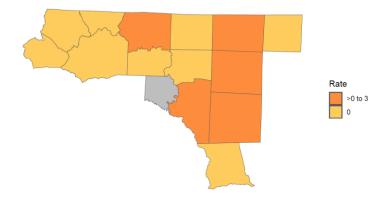
This week (May 5-11, 2024):

- There were 10 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 (1.3 HRI ED ٠ 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 most frequent heat related diagnosis code was heat exhaustion (n =3). (Table 1)
- The maximum heat index ranged from **70.5 to 85.4°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)

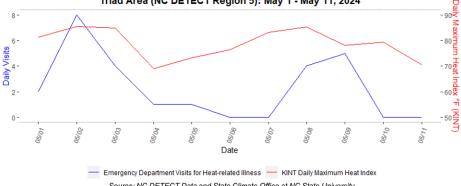






Counties in gray have been suppressed for confidentiality due to small numbers

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index Triad Area (NC DETECT Region 5): May 1 - May 11, 2024



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

Table 1. Heat-related illness ED visits by Severity

Severity§	Number (N = 6 [‡])	Percent ⁺
Heat Exhaustion	3	50
Heat Syncope	2	33.3
Other Effects	1	16.7

§ 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 Carolina Weekly Heat-related Illness Surveillance Report: Western NC (NC DETECT Region 6) May 5-11, 2024



Western NC (NC DETECT Region 6) Key Messages

The average weekly rate of heat-related illness emergency department visits **this season to date is 0.2 per 100,000 population.**

This week (May 5-11, 2024):

- There were **2** 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 (1 HRI ED visit per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in Henderson County (0.9 per 100,000 population). (Figure 2)
- The maximum heat index ranged from **70.6 to 83.6°F** at Asheville Regional Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.



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

Western NC (NC DETECT Region 6)

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

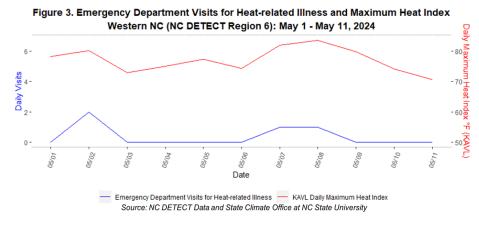
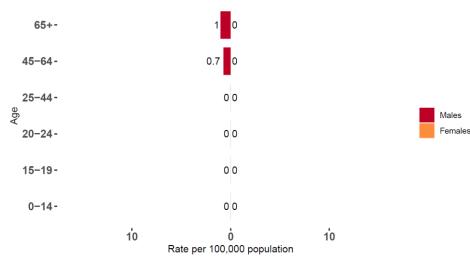


Table 1 is not provided for Western NC this week due to small numbers







North Carolina Weekly Heat-related Illness Surveillance Report: Charlotte Area (NC DETECT Region 7)
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May 5-11, 2024



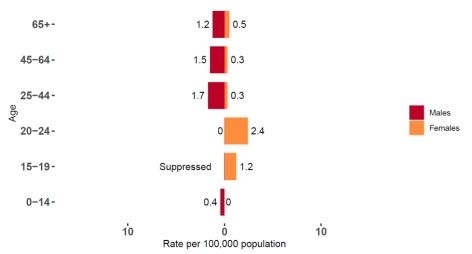
Charlotte Area (NC DETECT Region 7) Key Messages

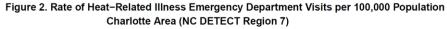
The average weekly rate of heat-related illness emergency department visits **this season to date is 0.7 per 100,000 population.**

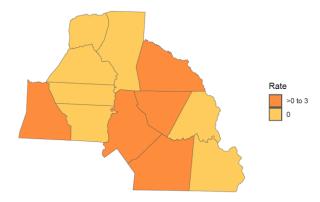
This week (May 5-11, 2024):

- There were 21 HRI ED visits (0.1% of total ED visits), with a rate of 0.8 per 100,000 population.
- The rate was highest among females aged 20-24 years (2.4 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in **Cleveland County (2 per 100,000 population).** (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =4). (Table 1)
- The maximum heat index ranged from **72.7 to 89.4**°**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)

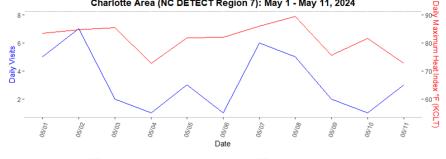






Counties in gray have been suppressed for confidentiality due to small numbers

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index Charlotte Area (NC DETECT Region 7): May 1 - May 11, 2024



 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

Severity§	Number (N = 8 [‡])	Percent [†]
Heat Exhaustion	4	50
Heat Stroke	1	12.5
Heat Syncope	1	12.5
Other Effects	2	25

§ Definitions of heat-related illness severity categories:

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

‡ Missing severity data = 13

+ May not total 100 due to rounding