



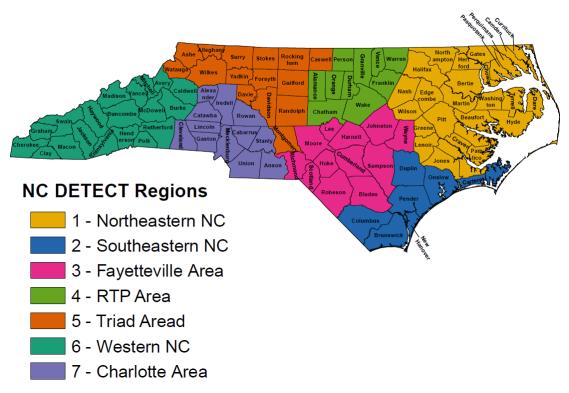
About the data

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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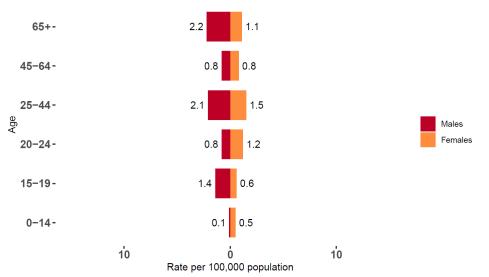
Statewide Key Messages

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 (May 19-25, 2024):

- There were 118* HRI ED visits (0.1% of total ED visits), with a rate of 1.1 per 100,000 population.
- The rate was highest among males aged 65+ years (2.2 per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in the Charlotte Area) (1.7 per 100,000 population). (Figure 2; NC DETECT Region 7)
- The most frequent heat related diagnosis code was heat exhaustion (n =31). (Table 1)
- The maximum heat index ranged from **74** to **94.1°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



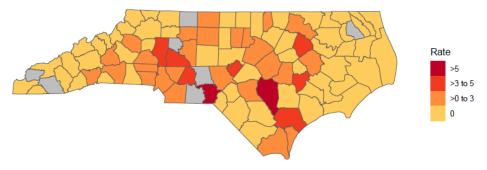




Table 1. Heat-related illness ED visits by Severity

Severity§	Number (N =65 [‡])	Percent ⁺
Heat Cramps	1	1.5
Heat Exhaustion	31	47.7
Heat Stroke	2	3.1
Heat Syncope	15	23.1
Other Effects	16	24.6

§ Definitions of heat-related illness severity categories:

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

‡ Missing severity data = 53

+ May not total 100 due to rounding

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

*This includes 6 visits that were missing county of residence and are excluded from the regional reports.

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

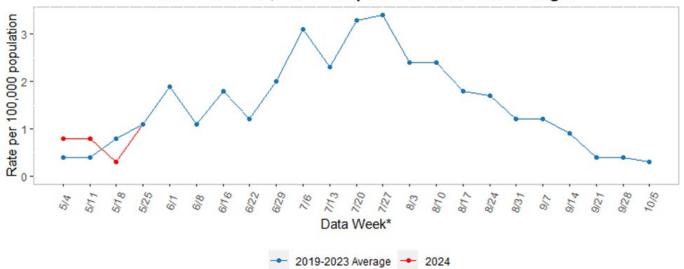




Figure 3. Emergency Department Visits for Heat-related Illness and Max Heat Index May 1 - May 25, 2024 Daily Maximum Heat Index °F (KRDU) 60 Daily Visits 40 20 0 05/12 05/15 05/26 05/02 02/10 05/13 05/14 05/16 05/18 05/19 02/20 05/25 04/30 05/03 05/04 05/05 05/06 05/07 05/08 05/09 05/17 05/17 05/21 05/22 05/23 05/24 05/01 Date Emergency Department Visits for Heat-related Illness - RDU Maximum Heat Index

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.odc.gov/wp-content/uploads/MMWR-Week-Log-2022-2023.pdf.



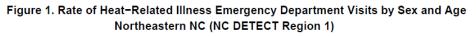


Northeastern NC (NC DETECT Region 1) Key Messages

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

This week (May 19-25, 2024):

- There were 8 HRI ED visits (0.1% of total ED visits), with a rate of 0.9 per 100,000 population.
- The rate was highest among females aged 45-64 years (1.6 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in **Edgecombe County (4.1 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 **72.1 to 91.4°F** at Pitt-Greenville Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.



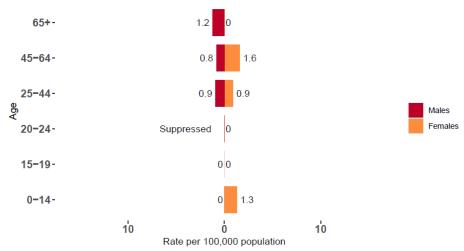
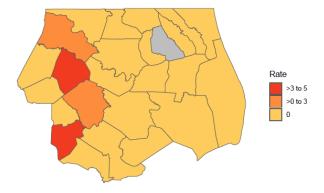


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population Northeastern NC (NC DETECT Region 1)



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

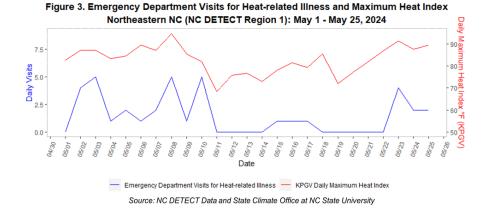


Table 1. Heat-related illness ED visits by Severity

Table 1. Heat-related liness	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/	<u>'topics/heatstress/heatrelillr</u>	<u>iess.html</u>
# Missing severity data = 7		
+ May not total 100 due to r	ounding	
other effects include heat t and other effects unspecifie	-	ffects of heat and light,



North Carolina Weekly Heat-related Illness Surveillance Report: Southeastern NC (NC DETECT Region 2) May 19-25, 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 0.8 per 100,000 population.**

This week (May 19-25, 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 females aged 25-44 years (2.1 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in **Pender County (4.9 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 **74 to 92.6°F** at Wilmington International Airport. (Figure 3)
- There were 1 days when the minimum temperature did not drop below 70°F.

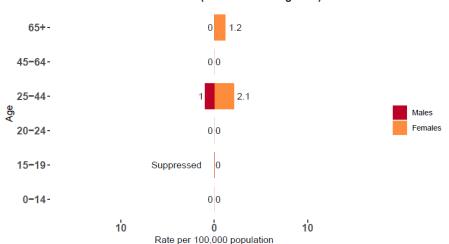


Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age Southeastern NC (NC DETECT Region 2)

Rate >3 to 5 >0 to 3 0

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

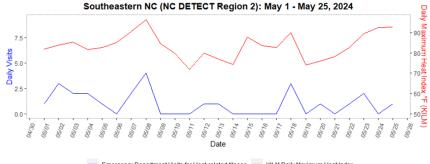


Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index

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 = 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 = 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

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



North Carolina Weekly Heat-related Illness Surveillance Report: Fayetteville Area (NC DETECT Region 3) May 19-25, 2024

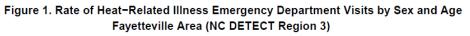


Fayetteville Area (NC DETECT Region 3) Key Messages

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

This week (May 19-25, 2024):

- There were 16 HRI ED visits (0.1% of total ED visits), with a rate of 1.2 per 100,000 population.
- The rate was highest among males aged 65+ years (3.5 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in **Richmond County (9.3 per 100,000 population).** (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =6). (Table 1)
- The maximum heat index ranged from **72.1 to 92.1°F** at Fayetteville Regional Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.



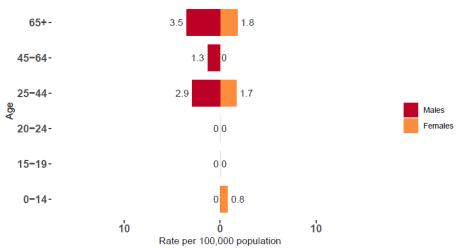
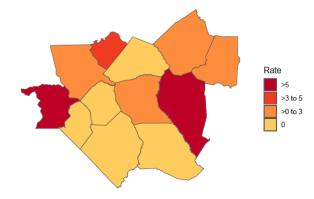
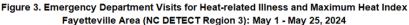
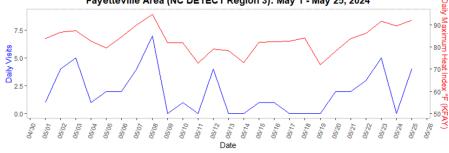


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population Fayetteville Area (NC DETECT Region 3)



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 = 8 [‡])	Percent ⁺
Heat Exhaustion	6	75
Heat Syncope	2	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-related Illness Surveillance Report: RTP Area (NC DETECT Region 4) May 19-25, 2024



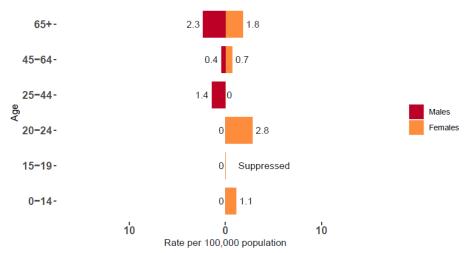
RTP Area (NC DETECT Region 4) Key Messages

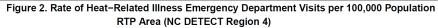
The average weekly rate of heat-related illness emergency department visits **this season to date is 0.6 per 100,000 population.**

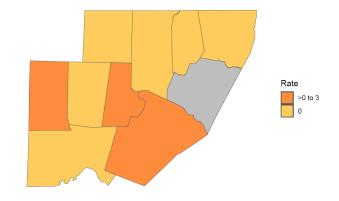
This week (May 19-25, 2024):

- There were 18 HRI ED visits (0.1% of total ED visits), with a rate of 0.9 per 100,000 population.
- The rate was highest among females aged 20-24 years (2.8 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in Vance County (2.4 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 **74 to 94.1°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)

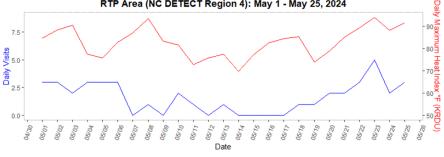






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Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index RTP Area (NC DETECT Region 4): May 1 - May 25, 2024



 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 = 11 [‡])	Percent ⁺
Heat Exhaustion	4	36.4
Heat Stroke	1	9.1
Heat Syncope	4	36.4
Other Effects	2	18.2

§ 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-Illness Surveillance Report: Triad Area (NC DETECT Region 5) May 19-25, 2024



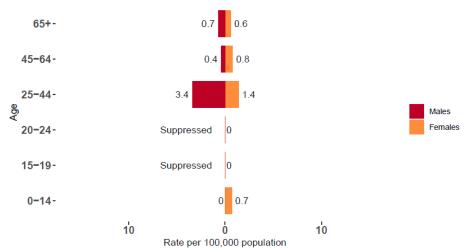
Triad Area (NC DETECT Region 5) Key Messages

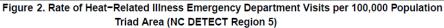
The average weekly rate of heat-related illness emergency department visits **this season to date is 0.7 per 100,000 population.**

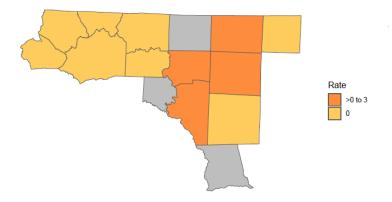
This week (May 19-25, 2024):

- There were 18 HRI ED visits (0.1% of total ED visits), with a rate of 1 per 100,000 population.
- The rate was highest among males aged 25-44 years (3.4 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in **Guilford County (1.3 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 **75.8 to 86.1°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)

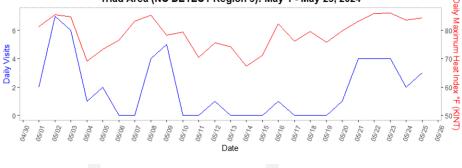






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Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index Triad Area (NC DETECT Region 5): May 1 - May 25, 2024



 Emergency Department Visits for Heat-related Illness
 KINT 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 = 9 [‡])	Percent ⁺
Heat Exhaustion	4	44.4
Heat Stroke	1	11.1
Heat Syncope	1	11.1
Other Effects	3	33.3

§ Definitions of heat-related illness severity categories:

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

‡ Missing severity data = 9

* May not total 100 due to rounding



North Carolina Weekly Heat-related Illness Surveillance Report: Western NC (NC DETECT Region 6) May 19-25, 2024



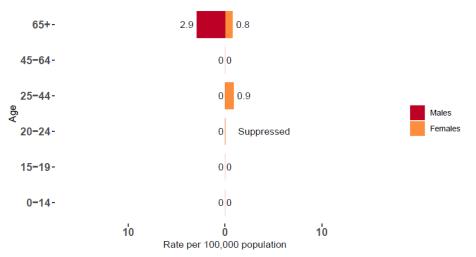
Western NC (NC DETECT Region 6) Key Messages

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

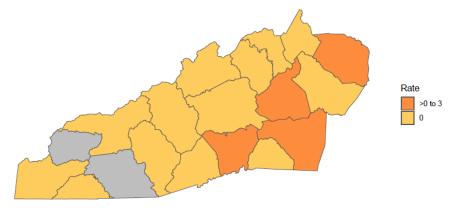
This week (May 19-25, 2024):

- There were **6** 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 (2.9 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 codes were heat exhaustion (n =1) and other effects (n=1). (Table 1)
- The maximum heat index ranged from **74.8 to 82.7°F** at Asheville 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 Western NC (NC DETECT Region 6)

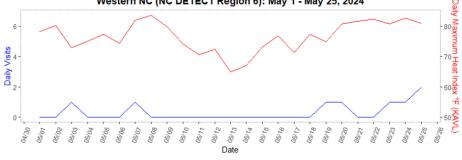






Counties in gray have been suppressed for confidentiality due to small numbers





Emergency Department Visits for Heat-related Illness — KAVL 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



North Carolina Weekly Heat-related Illness Surveillance Report: Charlotte Area (NC DETECT Region 7)
Kay 19-25, 2024



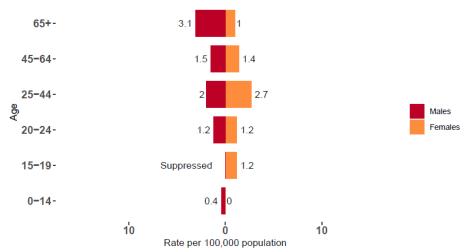
Charlotte Area (NC DETECT Region 7) Key Messages

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

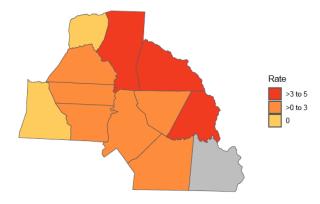
This week (May 19-25, 2024):

- There were 41 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 **Stanly County (4.8 per 100,000 population).** (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =12). (Table 1)
- The maximum heat index ranged from **74.8 to 88.9°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)

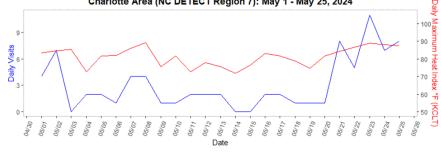






Counties in gray have been suppressed for confidentiality due to small numbers





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 = 30 [‡])	Percent [†]
Heat Cramps	1	3.3
Heat Exhaustion	12	40
Heat Syncope	8	26.7
Other Effects	9	30

§ Definitions of heat-related illness severity categories:

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

‡ Missing severity data = 11

† May not total 100 due to rounding