



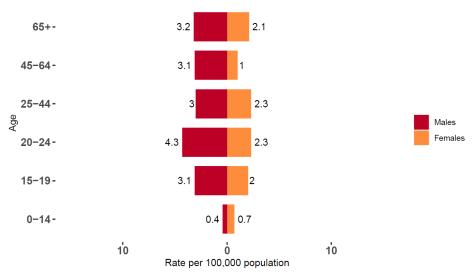
Statewide Key Messages

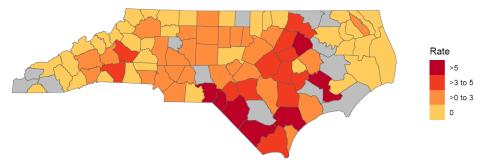
The average weekly rate of heat-related illness (HRI) emergency department (ED) visits **this season to date is 1.1 per 100,000 population.**

This week (June 9-15, 2024):

- There were **226 HRI ED visits** (0.2% of total ED visits), with a rate of **2.2 per 100,000 population**.
- The rate was highest among males aged 20-24 years (4.3 per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in the Fayetteville Area) (3.3 per 100,000 population). (Figure 2; NC DETECT Region 3)
- The most frequent heat related diagnosis code was **heat** exhaustion (n =71). (Table 1)
- The maximum heat index ranged from **82.9** to **96.5°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





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

Tabl	e 1	. Heat	t-related	illness	ED	visits	s by	/ Severi	ty
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Severity§	Number (N =115 [‡])	Percent ⁺
Heat Cramps	4	3.5
Heat Exhaustion	71	61.7
Heat Stroke	1	0.9
Heat Syncope	14	12.2
Other Effects	25	21.7

§ Definitions of heat-related illness severity categories:

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

‡ Missing severity data = 111

† May not total 100 due to rounding

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

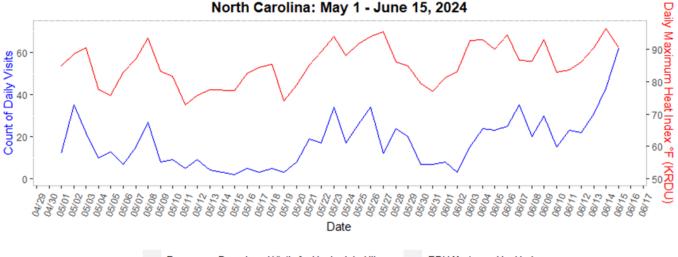
*This includes 19 visits that were missing county of residence and are excluded from the regional reports.

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



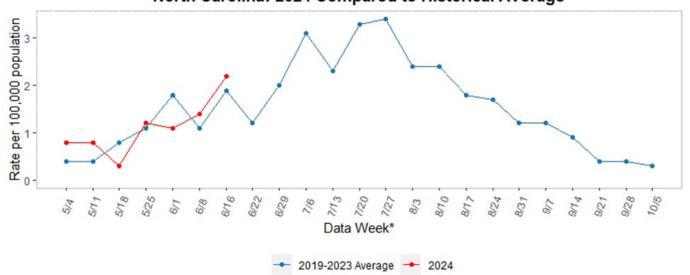


Figure 3. Count of Emergency Department Visits for Heat-related Illness and Max Heat Index North Carolina: May 1 - June 15, 2024



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

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



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.



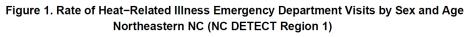


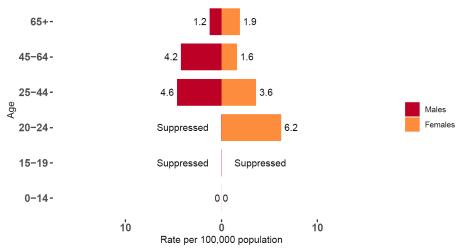
Northeastern NC (NC DETECT Region 1) Key Messages

The average weekly rate of heat-related illness emergency department visits this season to date is 1.7 per 100,000 population.

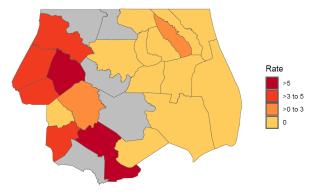
This week (June 9-15, 2024):

- There were 29 HRI ED visits (0.3% of total ED visits), with a rate of 3.1 per 100,000 population.
- The rate was highest among females aged 20-24 years (6.2 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in Edgecombe County (6.1 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 82.3 to 91.4°F at Pitt-Greenville Airport. (Figure 3)
- There was 1 day when the minimum temperature did not drop below 70°F.

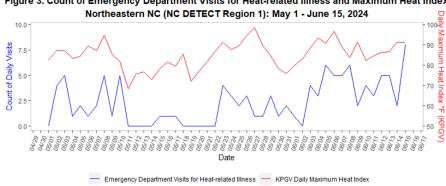








Rates based on counts between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray



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

Table 1. Heat-related illness ED visits by Severity

Severity§	Number (N = 10 [‡])	Percent ⁺
Heat Exhaustion	6	60
Heat Syncope	1	10
Other Effects	3	30

§ 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. Count of Emergency Department Visits for Heat-related Illness and Maximum Heat Index



North Carolina Weekly Heat-related Illness Surveillance Report: Southeastern NC (NC DETECT Region 2) June 9-15, 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 26 per 100,000 population.**

This week (June 9-15, 2024):

- There were 26 HRI ED visits (0.4% of total ED visits), with a rate of 3.2 per 100,000 population.
- The rate was highest among **females aged 65+ years (7.1 HRI ED** visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in **Pender County (6.5 per 100,000 population).** (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =8). (Table 1)
- The maximum heat index ranged from **80 to 98.4°F** at Wilmington International Airport. (Figure 3)
- There were **2** days when the minimum temperature did not drop below 70°F.

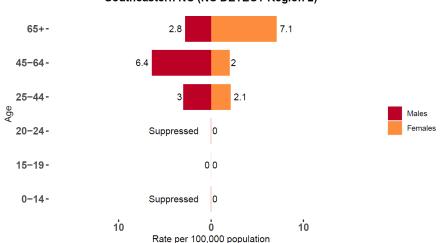
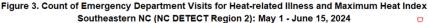


Figure 1. Rate of Heat–Related Illness Emergency Department Visits by Sex and Age Southeastern NC (NC DETECT Region 2)

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

Southeastern NC (NC DETECT Region 2)

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





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

Table 1. Heat-related illness ED visits by Severity

Severity§	Number (N = 15 [‡])	Percent [†]
Heat Cramps	2	13.3
Heat Exhaustion	8	53.3
Other Effects	5	33.3

§ 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



North Carolina Weekly Heat-related Illness Surveillance Report: Fayetteville Area (NC DETECT Region 3) June 9-15, 2024

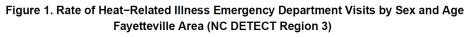


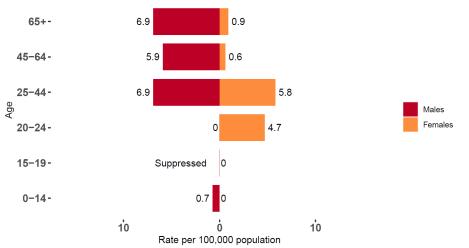
Fayetteville Area (NC DETECT Region 3) Key Messages

The average weekly rate of heat-related illness emergency department visits **this season to date is 1.6 per 100,000 population.**

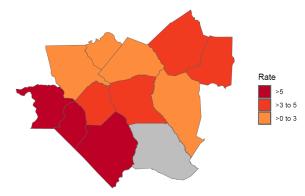
This week (June 9-15, 2024):

- There were 43 HRI ED visits (0.3% of total ED visits), with a rate of
 3.3 per 100,000 population.
- The rate was highest among males aged 25-44 years (6.9 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in **Richmond County (7 per 100,000 population).** (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =15). (Table 1)
- The maximum heat index ranged from **82.4 to 96°F** at Fayetteville Regional Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.

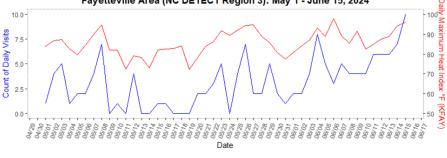








Rates based on counts between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray. Figure 3. Count of Emergency Department Visits for Heat-related Illness and Maximum Heat Index Fayetteville Area (NC DETECT Region 3): May 1 - June 15, 2024



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 = 22 [‡])	Percent ⁺
Heat Exhaustion	15	68.2
Heat Syncope	2	9.1
Other Effects	5	22.7

§ Definitions of heat-related illness severity categories:

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

Missing severity data =21

† May not total 100 due to rounding



North Carolina Weekly Heat-related Illness Surveillance Report: RTP Area (NC DETECT Region 4) June 9-15, 2024



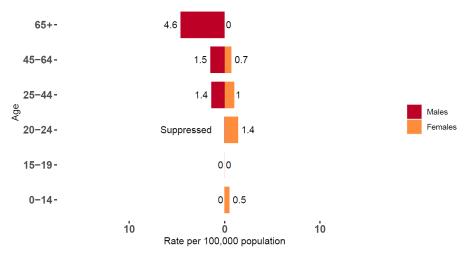
RTP Area (NC DETECT Region 4) Key Messages

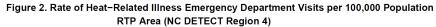
The average weekly rate of heat-related illness emergency department visits **this season to date is 0.7 per 100,000 population.**

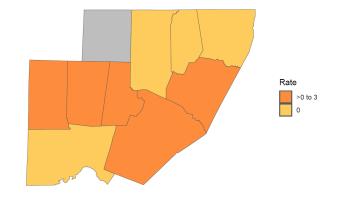
This week (June 9-15, 2024):

- There were 25 HRI ED visits (0.2% of total ED visits), with a rate of 1.2 per 100,000 population.
- The rate was highest among males aged 65+ years (4.6 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in **Orange County (2.1 per 100,000 population).** (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =7). (Table 1)
- The maximum heat index ranged from **82.9 to 96.5°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)

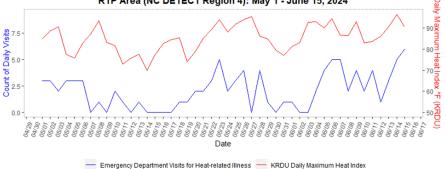






Rates based on counts between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray

Figure 3. Count of Emergency Department Visits for Heat-related Illness and Maximum Heat Index RTP Area (NC DETECT Region 4): May 1 - June 15, 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 = 9 [‡])	Percent ⁺
Heat Cramps	1	11.1
Heat Exhaustion	7	77.8
Heat Syncope	1	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





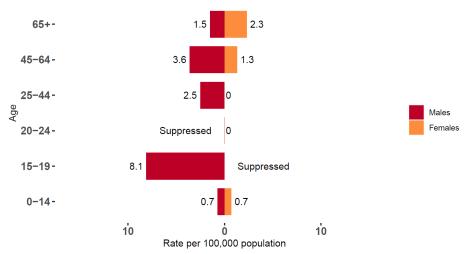
Triad Area (NC DETECT Region 5) Key Messages

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

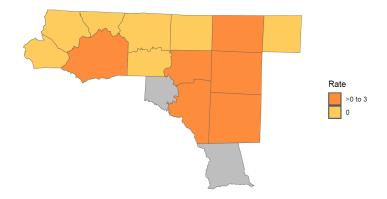
This week (June 9-15, 2024):

- There were 33 HRI ED visits (0.2% of total ED visits), with a rate of 1.91 per 100,000 population.
- The rate was highest among males aged 15-19 years (8.1 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in **Wilkes County (3 per 100,000 population).** (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =11). (Table 1)
- The maximum heat index ranged from **80.7 to 90.8°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)

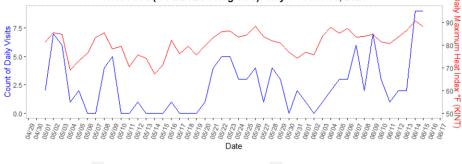






Rates based on counts between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray.

Figure 3. Count of Emergency Department Visits for Heat-related Illness and Maximum Heat Index Triad Area (NC DETECT Region 5): May 1 - June 15, 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 = 19 [‡])	Percent ⁺
Heat Exhaustion	11	57.9
Heat Stroke	1	5.3
Heat Syncope	2	10.5
Other Effects	5	26.3

§ Definitions of heat-related illness severity categories:

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

‡ Missing severity data = 14

* May not total 100 due to rounding



North Carolina Weekly Heat-related Illness Surveillance Report: Western NC (NC DETECT Region 6) June 9-15, 2024



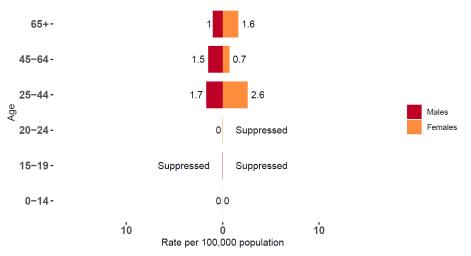
Western NC (NC DETECT Region 6) Key Messages

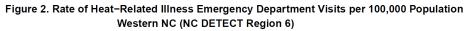
The average weekly rate of heat-related illness emergency department visits **this season to date is 0.5 per 100,000 population.**

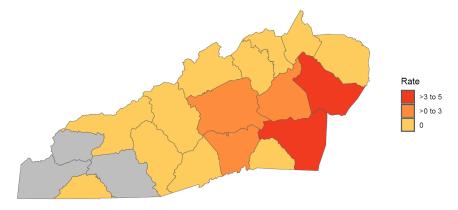
This week (June 9-15, 2024):

- There were 14 HRI ED visits (0.2% of total ED visits), with a rate of 1.4 per 100,000 population.
- The rate was highest among **females aged 25-44 years (2.6 HRI** ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in **Burke County (3.4 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 **76.1 to 90.6°F** at Asheville Regional Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.

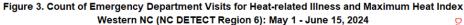
Figure 1. Rate of Heat–Related Illness Emergency Department Visits by Sex and Age Western NC (NC DETECT Region 6)

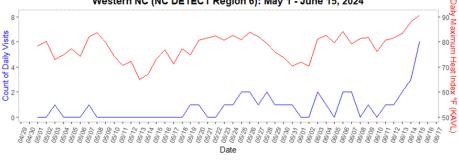






Rates based on counts between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray.





Emergency Department Visits for Heat-related Illness — 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 = 6 [‡])	Percent [†]
Heat Exhaustion	3	50
Heat Syncope	1	16.7
Other Effects	2	33.3

§ 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: Charlotte Area (NC DETECT Region 7) June 9-15, 2024

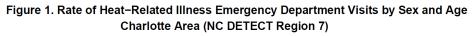


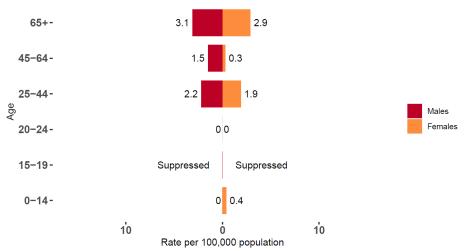
Charlotte Area (NC DETECT Region 7) Key Messages

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

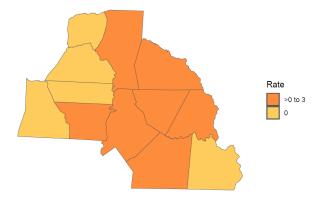
This week (June 9-15, 2024):

- There were 37 HRI ED visits (0.2% of total ED visits), with a rate of 1.4 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 **Gaston County (2.2 per 100,000 population).** (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =10). (Table 1)
- The maximum heat index ranged from **82 to 93.4°F** at Charlotte/Douglas International Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.



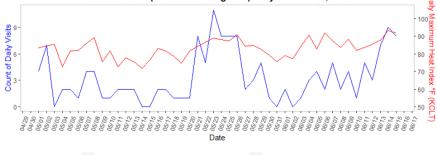






Rates based on counts between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray.

Figure 3. Count of Emergency Department Visits for Heat-related Illness and Maximum Heat Index Charlotte Area (NC DETECT Region 7): May 1 - June 15, 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 = 19 [‡])	Percent [†]
Heat Exhaustion	10	52.6
Heat Syncope	6	31.6
Other Effects	3	15.8

§ 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





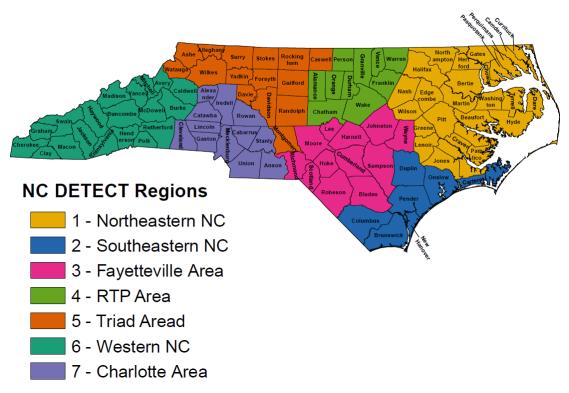
About the data

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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