



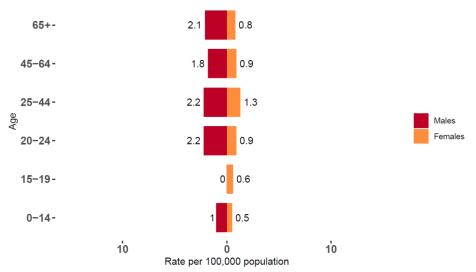
Statewide Key Messages

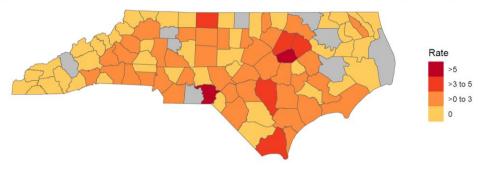
The average weekly rate of heat-related illness (HRI) emergency department (ED) visits **this season to date is 0.9 per 100,000 population.**

This week (June 2-8, 2024):

- There were **136 HRI ED visits** (0.14% of total ED visits), with a **rate of 1.3 per 100,000 population.**
- The rate was highest among males aged 20-24 years and 25-44 years (2.2 per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in the Northeastern NC) (2.6 per 100,000 population). (Figure 2; NC DETECT Region 1)
- The most frequent heat related diagnosis code was heat exhaustion (n =38). (Table 1)
- The maximum heat index ranged from **83.3** to **94.6°F** at Raleigh-Durham International Airport. (Figure 3)
- There were **4** 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.

	Table	e 1.	Heat-re	lated	illness	ED	visits	by	Severity	
1			C						4.	

Severity [§]	Number (N =70 [‡])	Percent ⁺
Heat Cramps	1	1.4
Heat Exhaustion	38	54.3
Heat Stroke	1	1.4
Heat Syncope	17	24.3
Other Effects	13	18.6

§ Definitions of heat-related illness severity categories:

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

‡ Missing severity data = 66

+ May not total 100 due to rounding

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

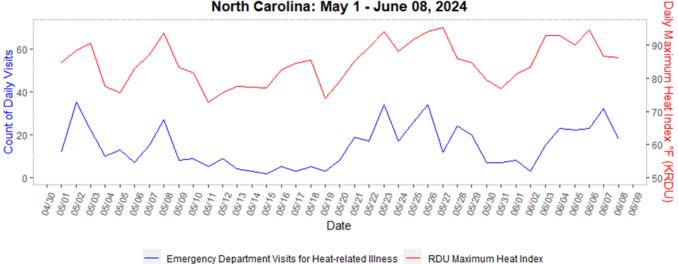
*This includes 9 visits that were missing county of residence and are excluded from the regional reports.

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



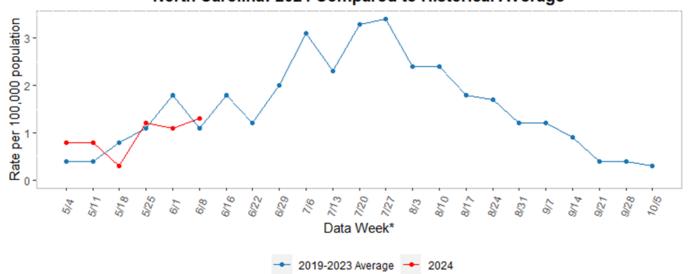






Source: NC DETECT Data and State Climate Office at NC State University

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





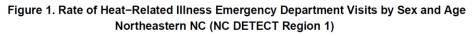


Northeastern NC (NC DETECT Region 1) Key Messages

The average weekly rate of heat-related illness emergency department visits **this season to date is 1.4 per 100,000 population.**

This week (June 2-8, 2024):

- There were 24 HRI ED visits (0.4% of total ED visits), with a rate of 2.6 per 100,000 population.
- The rate was highest among males aged 25-44 years (5.5 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in Bertie County (11.2 per 100,000 population). (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =5). (Table 1)
- The maximum heat index ranged from **83 to 96.8°F** at Pitt-Greenville Airport. (Figure 3)
- There were **2** days when the minimum temperature did not drop below 70°F.



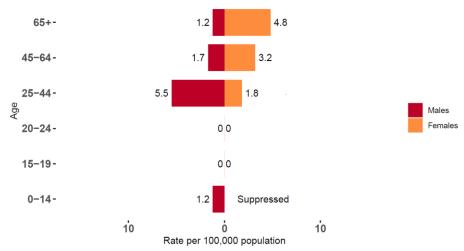
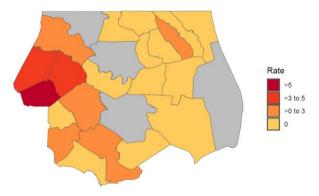
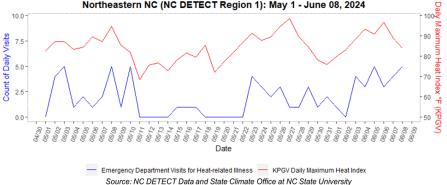


Figure 2. Rate of Heat–Related Illness Emergency Department Visits per 100,000 Population Northeastern NC (NC DETECT Region 1)



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 Northeastern NC (NC DETECT Region 1): May 1 - June 08, 2024



- 1. Uset valeted illeges FD visits by Coverity

Table 1. Heat-related life	Table 1. Heat-related liness ED visits by Severity				
Severity [§]	Number (N = 11 [‡])	Percent [†]			
Heat Exhaustion	5	45.5			
Heat Stroke	1	9.1			
Heat Syncope	1	9.1			
Other Effects	4	36.4			

§ 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



North Carolina Weekly Heat-related Illness Surveillance Report: Southeastern NC (NC DETECT Region 2) June 2-8, 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 15 per 100,000 population.**

This week (June 2-8, 2024):

- There were 15 HRI ED visits (0.4% of total ED visits), with a rate of 1.9 per 100,000 population.
- The rate was highest among males aged 20-24 years (6.8 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in **Brunswick County (3.6 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 **82.8 to 99.1°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)

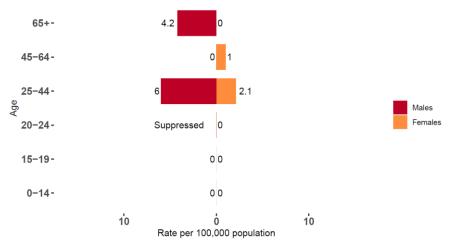
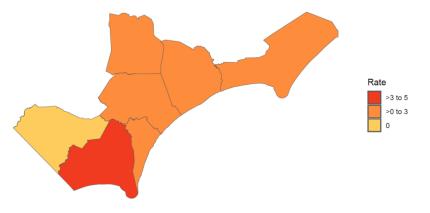
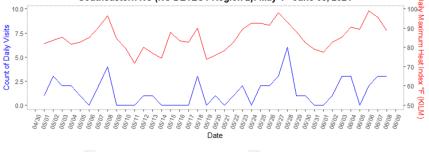


Figure 2. Rate of Heat–Related Illness Emergency Department Visits per 100,000 Population Southeastern NC (NC DETECT Region 2)



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

Figure 3. Count of Emergency Department Visits for Heat-related Illness and Maximum Heat Index Southeastern NC (NC DETECT Region 2): May 1 - June 08, 2024



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 = 7 [‡])	Percent ⁺
Heat Cramps	1	14.3
Heat Exhaustion	4	57.1
Heat Syncope	1	14.3
Other Effects	1	14.3

§ 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: Fayetteville Area (NC DETECT Region 3)



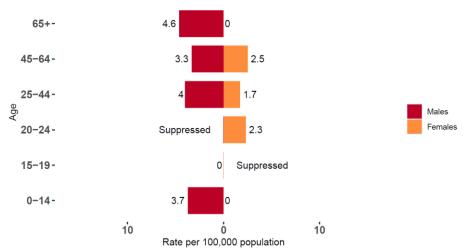
Fayetteville Area (NC DETECT Region 3) Key Messages

The average weekly rate of heat-related illness emergency department visits **this season to date is 1.4 per 100,000 population.**

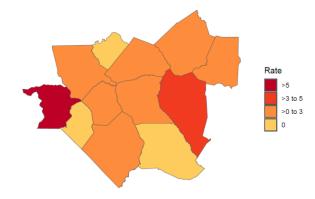
This week (June 2-8, 2024):

- There were **31** HRI ED visits (0.4% of total ED visits), with a rate of
 2.4 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 **Richmond County (13.9** 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 **84.1 to 97.9°F** at Fayetteville Regional Airport. (Figure 3)
- There was **1** day 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)

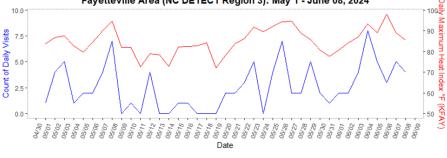






Counties in gray have been suppressed for confidentiality due to small numbers

Figure 3. Count of Emergency Department Visits for Heat-related Illness and Maximum Heat Index Fayetteville Area (NC DETECT Region 3): May 1 - June 08, 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 = 20 [‡])	Percent ⁺	
Heat Exhaustion	12	60	
Heat Syncope	4	20	
Other Effects	4	20	

§ 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: RTP Area (NC DETECT Region 4) June 2-8, 2024



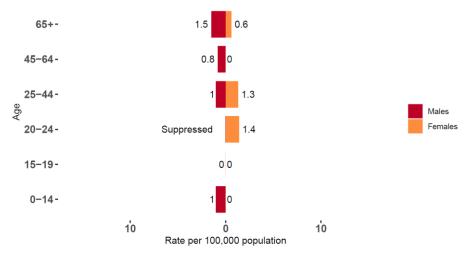
RTP Area (NC DETECT Region 4) Key Messages

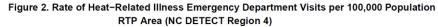
The average weekly rate of heat-related illness emergency department visits **this season to date is 0.6 per 100,000 population.**

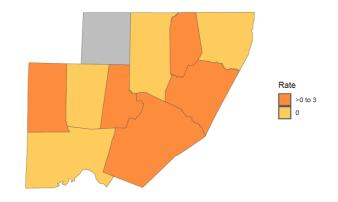
This week (June 2-8, 2024):

- There were 16 HRI ED visits (0.2% of total ED visits), with a rate of 0.8 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 **Person County (2.6 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 **83.3 to 94.6°F** at Raleigh-Durham International Airport. (Figure 3)
- There were **4** days when the minimum temperature did not drop below 70°F.

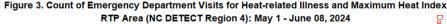
Figure 1. Rate of Heat–Related Illness Emergency Department Visits by Sex and Age RTP Area (NC DETECT Region 4)

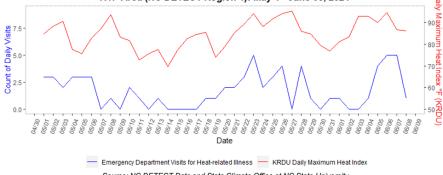






Rates based on counts between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray.





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	6	66.7
Heat Syncope	3	33.3

§ 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) June 2-8, 2024



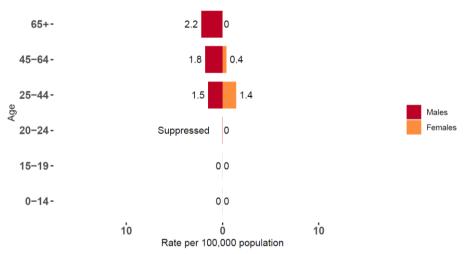
Triad Area (NC DETECT Region 5) Key Messages

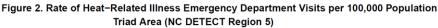
The average weekly rate of heat-related illness emergency department visits **this season to date is 0.8 per 100,000 population.**

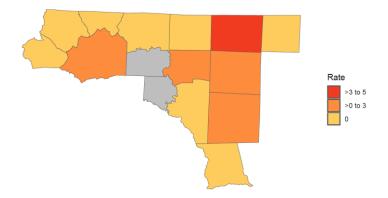
This week (June 2-8, 2024):

- There were 15 HRI ED visits (0.2% of total ED visits), with a rate of 0.9 per 100,000 population.
- The rate was highest among males aged 65+ years (2.2 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in **Yadkin County (5.4 per 100,000 population).** (Figure 2)
- The most frequent heat related diagnosis code was heat syncope (n =4). (Table 1)
- The maximum heat index ranged from **75.8 to 87.9°F** at Smith Reynolds Airport. (Figure 3)
- There was **1** day 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)

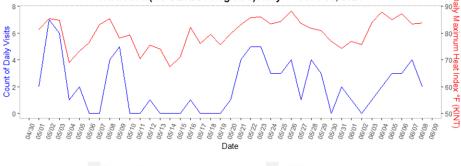






Rates based on counts between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray.

Figure 3. Count of Emergency Department Visits for Heat-related Illness and Maximum Heat Index Triad Area (NC DETECT Region 5): May 1 - June 08, 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 = 7 [‡])	Percent ⁺
Heat Exhaustion	3	42.9
Heat Syncope	4	57.1

§ 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: Western NC (NC DETECT Region 6) June 2-8, 2024



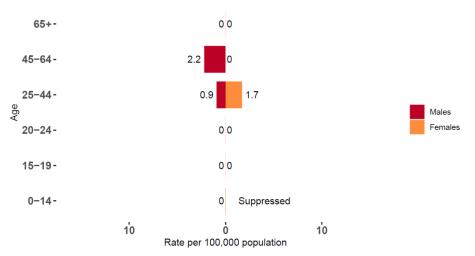
Western NC (NC DETECT Region 6) Key Messages

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

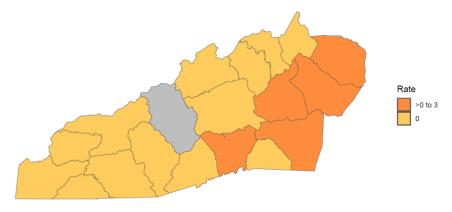
This week (June 2-8, 2024):

- There were **7** HRI ED visits (0.1% of total ED visits), with a rate of **0.7 per 100,000 population.**
- The rate was highest among males aged 45-64 years (2.2 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in **Caldwell County (2.5 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 **70.3 to 84.1°F** at Asheville Regional Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.

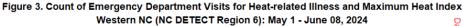
Figure 1. Rate of Heat–Related Illness Emergency Department Visits by Sex and Age Western NC (NC DETECT Region 6)

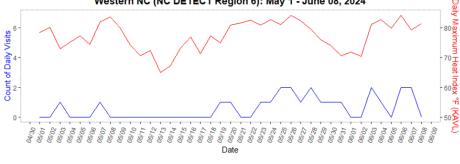






Rates based on counts between 1-4 are suppressed for counties with less than 500 total ED visits, as shown in gray.





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	y Severity
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Severity§	Number (N = 3 [‡])	Percent ⁺
Heat Exhaustion	3	100
§ Definitions of heat-re	elated illness severity categor	ies:
https://www.cdc.gov/i	niosh/topics/heatstress/heat	<u>relillness.html</u>
+ Missing covority data	- 1	

‡ 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)



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 (June 2-8, 2024):

- There were 17 HRI ED visits (0.1% of total ED visits), with a rate of 0.7 per 100,000 population.
- The rate was highest among males aged 65+ years (1.8 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in **Anson County (4.5 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 **77.3 to 91.8°F** at Charlotte/Douglas International Airport. (Figure 3)
- There were **3** 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)

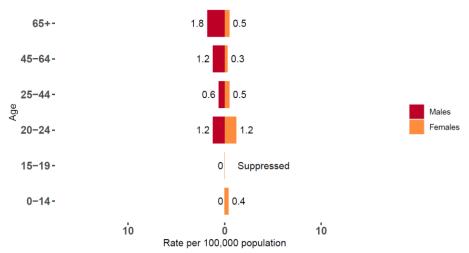
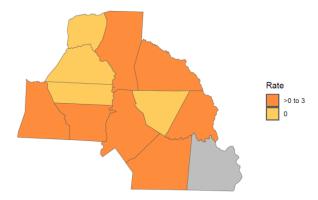
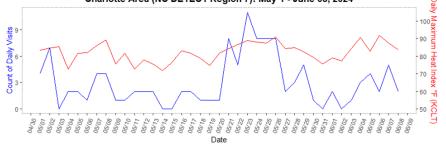


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population Charlotte Area (NC DETECT Region 7)



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 08, 2024 0



 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 = 9 [‡])	Percent [†]	
Heat Exhaustion	4	44.4	
Heat Syncope	3	33.3	
Other Effects	2	22.2	

§ 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





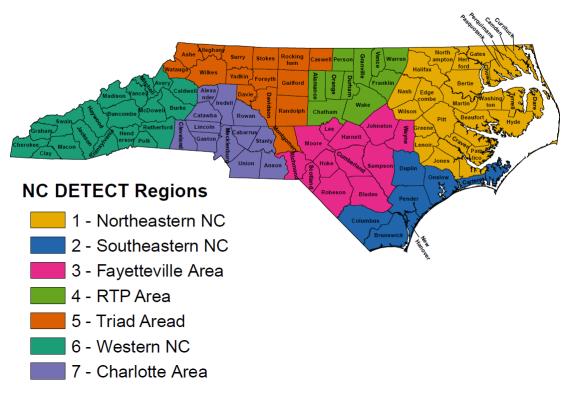
About the data

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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