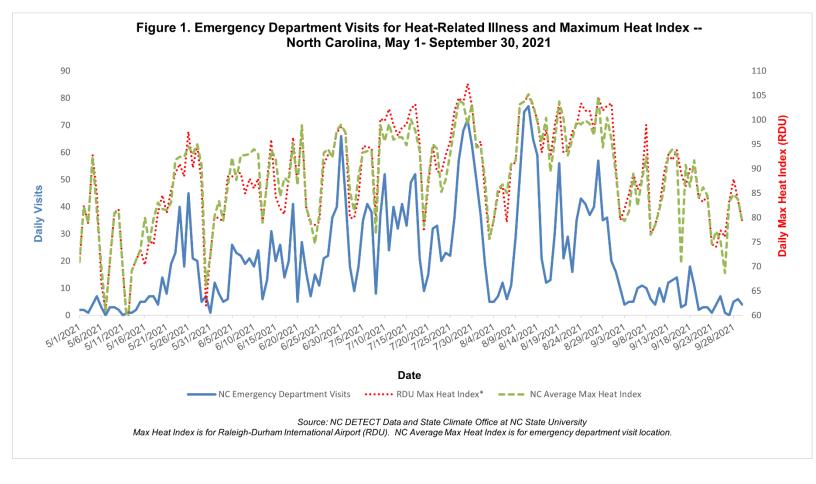
## North Carolina Heat Report May 1 - September 30, 2021



## 2021 Season Summary

- Daily maximum heat indices ranged from 56°F to 107°F (median = 88°F) at Raleigh-Durham International Airport (RDU)
- 3201 emergency department visits for heat-related illness were observed
  - \* 71% of visits were for males, mostly aged 25-44 (Table 1)
  - Most visits were seen in hospitals in the Coastal (40%) and Piedmont (55%) regions
  - \* 14% of visits were seen in hospitals in the Sandhills sub-region1
- \* The average 2021 proportion of emergency department visits for heat-related illness was (0.16%), similar to 2019 and 2020 data (Figure 2)



<sup>1</sup>The Sandhills sub-region is comprised of the following counties from the Piedmont and Coastal regions: Bladen, Cumberland, Harnett, Hoke, Lee, Montgomery, Moore, Richmond, Robeson, and Scotland.







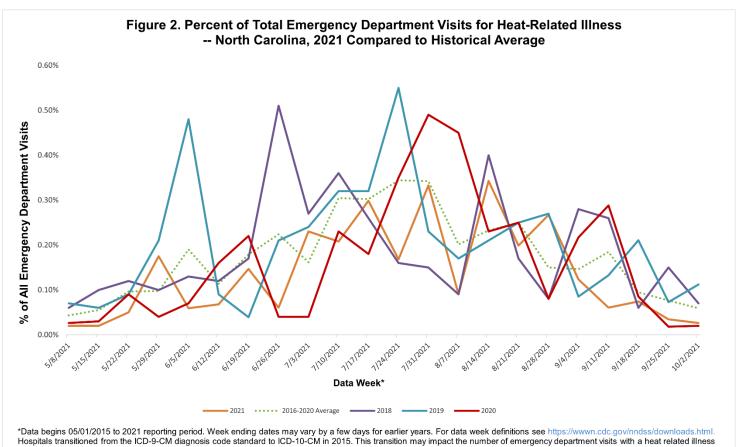
<u>Table 1.</u> Visits by sex and age group - May 1- September 30, 2021

May 1 Coptombol Co, 2021			
	N=3201	(%)†	
Sex			
Male	2267	(71)	
Female	933	(29)	
Unknown	1	(0)	
Age			
0-14	136	(4)	
15-18	140	(4)	
19-24	327	(10)	
25-44	1079	(34)	
45-64	911	(29)	
65+	608	(19)	

<u>Table 2.</u> Visits by severity – May 1 - September 30, 2021

	N=1880‡	(%)†
Severity <sup>§</sup>		
Heat Cramps	73	(4)
Heat Syncope	217	(11)
Heat Stroke	32	(2)
Heat Exhaustion	1134	(60)
Other Effects <sup>II</sup>	424	(23)

\*n may vary from weekly total visits † may not total 100 due to rounding ‡ missing severity data = 1321 § definitions of heat related illness categories <a href="https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html">https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html</a> Il other effects include heat fatigue, heat edema, other effects of heat and light, and other effects unspecified



NOTE: Emergency department visit records and maximum heat indices were obtained from NC DETECT and the State Climate Office at NC State University, respectively. Heat-related illness is captured through a near real-time keyword search for 'heat', 'hot', 'hyperthermia', 'heat cramp', 'heat exhaustion', 'heat stroke', and 'sun stroke' in chief complaint or triage notes of emergency department records or a diagnosis code for heat-related illness. These figures present an estimate of the number of emergency department visits for heat-related illness. Please contact <a href="mailto:lauren.thie@dhhs.nc.gov">lauren.thie@dhhs.nc.gov</a> for more information.

diagnosis. Source: NC DETECT

Disclaimer: The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) is an advanced, statewide public health surveillance system. NC DETECT is funded with federal funds by North Carolina Division of Public Health (NC DPH), Public Health Emergency Preparedness Grant (PHEP), and managed through a collaboration between NC DPH and the University of North Carolina at Chapel Hill Department of Emergency Medicine's Carolina Center for Health Informatics (UNC CCHI). The NC DETECT Data Oversight Committee does not take responsibility for the scientific validity or accuracy of methodology, results, statistical analyses, or conclusions presented. The NC DETECT Data Oversight Committee (DOC) includes representatives from the NC DPH, UNC NC DETECT Team and NC Hospital Association.