The 2012 North Carolina Heat Report

MMWR week 39 (9/23 – 9/29/2012):
- Approximately 5 heat-related illness ED visits were detected during this week
- Daily maximum heat indices of 75°F to 87°F (median = 80°F) were recorded at RDU during this week
- Common references in triage notes were for working outdoors (e.g., farm) and outdoor recreation (e.g., football)

Season to date (5/1/12 – 9/29/12):
- Approximately 1,075 heat-related illnesses were identified in ED visit records (figure 1)
- Majority of illness among males 25-64 years of age (figure 2)
- The 2012 ‘heat wave’ during late June – early July yielded a spike in ED visits consistent with early ‘heat waves’ in previous years (figure 3).

Heat wave 2012 (6/29/12 – 7/2/12):
- Approximately 431 heat-related illnesses were observed using chief complaint and ICD-9 searches of ED visit records
- Daily maximum heat indices of 113°F - 114°F were recorded at RDU during this heat wave

Notes: Heat-related illness is captured through a near real-time keyword search for ‘heat,’ ‘hot,’ ‘hyperthermia,’ ‘heat exhaustion,’ and ‘heat stroke’ in chief complaint and triage notes of emergency department records. These numbers under-estimate the true number of heat illness hospital visits. These numbers do not include ED visits that are coded using ICD-9-CM (unless otherwise stated). Please contact lauren.thie@dhhs.nc.gov for more information.

Figure 1. ED visits for heat-related illness and daily maximum heat index (RDU airport), 5/1/12 to 9/29/12, North Carolina.

Statewide Heat-Related ED Visits and Maximum Heat Index

**Source: NC DETECT Data and State Climate Office at NC State University for Raleigh-Durham International Airport (RDU)
Figure 2. ED visits for heat-related illness by age group, 5/1/12 to 9/29/12, North Carolina.
Figure 3. ED visits for heat-related illness by year, 2007-2012, North Carolina.