Preparing for Extreme Heat in Minnesota: The Numbers

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Heat-related illness ED visits* and temperatures by year in Minnesota

*Emergency department (ED) visits are directly heat-related and per 100,000 people.

Temperature data source: National Climatic Data Center, National Oceanic and Atmospheric Administration
Heat-related illness hospitalizations* and temperatures by year in Minnesota

Average summer temperature in F\textdegree

Age-adjusted rate per 100,000

Year

- Average temperature
- Age-adjusted rate

*Hospitalizations are directly related to heat and per 100,000 people.

Temperature data source: National Climatic Data Center, National Oceanic and Atmospheric Administration
Heat-related illness ED visits* by age and sex in Minnesota

*Emergency Department (ED) visits are directly heat-related and per 100,000 people for the combined years of 2007-2011.

While people 65 years old and older are considered the most sensitive to heat, this chart indicates that males aged 15-34 had the highest rate of ED visits due to heat-related illness. This differs from the hospitalization data where males age 65 years old and older had the highest rate of hospitalization.
**Heat-related illness hospitalizations** by age and sex in Minnesota

*Hospitalizations are directly due to heat and per 100,000 people for the combined years of 2007-2011.

Males in the 65+ age category are hospitalized at a greater rate as compared to the other age-sex categories. In general, males over age 15 are more likely to be hospitalized than females.
Heat-related illness ER visits* in Minnesota
Metro. vs. Non-metro

*Emergency Department (ED) visits are directly heat-related and per 100,000 people.

Metropolitan (Metro) is defined as the metro area of the Twin Cities (i.e., Minneapolis and St. Paul) and surrounding counties, which includes: Anoka, Hennepin, Ramsey, Washington, Carver, Scott, and Dakota. Non-metro is defined as all other counties in Minnesota.
Heat-related illness hospitalizations* in Minnesota
Metro vs. Non-metro

*Hospitalizations are directly related to heat and per 100,000 people for all the years available.

Metropolitan (Metro) is defined as the metro area of the Twin Cities (i.e., Minneapolis and St. Paul) and surrounding counties, which includes: Anoka, Hennepin, Ramsey, Washington, Carver, Scott, and Dakota. Non-metro is defined as all other counties in Minnesota.
Heat-related deaths* by year in Minnesota

- Year: 2000-2012
- Number of deaths: 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 20, 10, 0, 0

*Deaths due explicitly to heat only. No rates calculated since counts are too small.

Heat-related illness accounted for 44 deaths in Minnesota from 2000-2012. In 2001, there was a high death count, with 19 deaths due to heat-related illness.

Heat-related deaths* by month in Minnesota

- Month: May, June, July, August, September
- Number of deaths: 0, 5, 20, 0, 0

*Deaths due explicitly to heat only, for years 2000-2012. No rates calculated since counts are too small.

Heat-related deaths occur in the warm summer months (May-September). For the years 2000-2012, July had the highest number of heat-related deaths, with 23.
MN Climate & Health Program

http://www.health.state.mn.us/divs/climatechange/