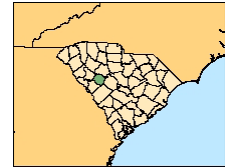


SALUDA COUNTY, SC

Hazard Profile for 2008

An Excerpt from the State of South Carolina Hazard Assessment for 2008



I. Summary

Saluda County is vulnerable to both natural (hurricanes/tropical storm) and technological (hazardous material incidents) hazards. Winter weather produces the greatest monetary damage; however, the recurrence interval is 8.4 years, making it a relatively rare event. Wildfires, thunderstorms, and hazardous material incidents are some of the prominent hazards that regularly affect the county, based on past occurrences.

II. Social Vulnerability

Social vulnerability examines the socioeconomic and demographic character of places and helps to explain the variation in the population's ability to prepare for and respond to hazards. The Social Vulnerability Index (SoVI) is a statistical measure that compares social vulnerability to environmental hazards among places, and then visually displays these comparisons on a map. SoVI thus illustrates where there is uneven capacity for preparedness and response and where additional planning and response resources might be used most effectively to help residents. The variables used in determining the Social Vulnerability (SoVI) score along with how SoVI is calculated are available on the Hazards and Vulnerability Research Institute SoVI website (<http://www.sovius.org>).

All census tracts within Saluda County exhibit moderate to elevated levels of social vulnerability. Figure 1 provides maps of the Saluda County depicting (on the left) social vulnerability by census tract and (on the right) cities and major roads.

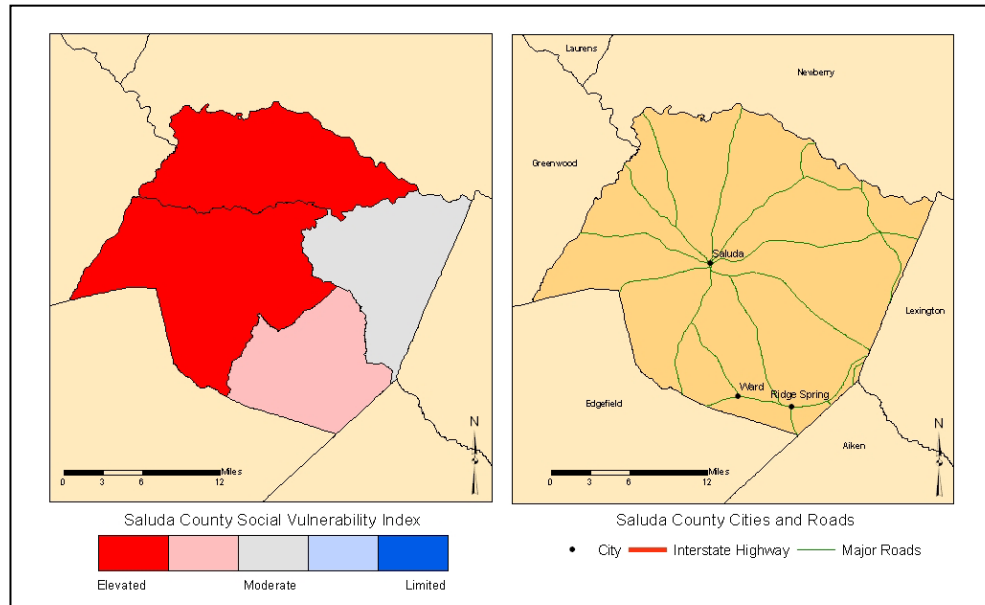


FIGURE 1. The Social Vulnerability for Saluda County, SC by US Census tracts and a general reference map of Saluda County.

III. Terms

Disaster – a singular hazard event that results in widespread human losses or has profound impacts on local environments.

Frequency – a calculated number showing the chance of an event occurring each year based on the historic record.

Hazard – the potential threat to humans as well as the impact of an event on society and the environment.

Recurrence – a calculated number that examines the expected time interval between events based on the historic record.

Risk – the likelihood or probability of occurrence of a hazard or adverse event.

Vulnerability – the potential for loss or the capacity to suffer harm from a hazard event.



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SALUDA COUNTY HAZARD PROFILE 2008

IV. Hazard Identification

The estimated recurrence of a hazard is a useful element (based on event frequency) for distinguishing between infrequent hazards like earthquakes, and frequent hazards such as hazardous materials incidents or traffic accidents. The most common hazard events in Saluda County are hazardous material accidents, severe thunderstorms and wind, and wildfires. Earthquakes, drought, and hurricanes/tropical storms have the lowest recurrence intervals. The recurrence and hazard frequency table can be seen in Table 1.

TABLE 1. The Hazard Profile for Saluda County, SC.

Hazard ^a	Number of Events	Years in Record	Recurrence Interval (Years)	Hazard Frequency (Percent Chance per Year)
Coastal Events				
Hurricane/Tropical Storm	4	158	39.05	2.53
Ocean & Lake Surf ^b	1	16	16.00	6.25
Waterspout	0	16	*	*
Dam Failure	-	-	-	-
Drought	1	59	59.00	1.69
Flood	4	59	14.75	6.78
Fog	0	12	*	*
Geophysical Events				
Avalanche	0	49	*	*
Earthquake	2	310	155.00	0.65
Landslide	0	49	*	*
Human-Induced Events				
Civil Disturbance	-	-	-	-
Hazardous Materials (Hazmat)	87	22	<0.50	395.45**
Nuclear Power Plant	0	8	*	*
Terrorism	0	29	*	*
Transportation (Motor Vehicle)	2,956	10	<0.50	29,560.00**
Severe Thunderstorm Events				
Funnel Cloud	1	16	16.00	6.25
Hail	47	59	1.26	79.66
Heavy Precipitation	0	15	*	*
Lightning	0	16	*	*
Thunderstorm & Wind	90	59	0.66	152.54**
Tornado	10	59	5.90	16.95
Temperature Extremes	0	16	*	*
Wildfire	702	21	<0.50	3,342.86**
Winter Weather (Snow & Ice)	7	59	8.43	11.86
^a Data Sources: National Climatic Data Center (www.ncdc.noaa.gov/cgi-win/wcqi.dll?wwEvent-Storm); National Geophysical Data Center (www.ngdc.noaa.gov/hazard/)			* Unable to calculate (cannot divide by zero) ** Percent is greater than 100.00, therefore hazard can be expected to occur more than once per year - Data Unavailable	
^b Includes coastal flooding, coastal erosion, coastal winds				

V. Hazard Loss Information

When compared to South Carolina as a whole, Saluda County has the same probability of loss-producing drought events, but is below the state mean for all other hazards. This comparison between the county and state in Figure 2 (page 3) shows hazards that exceeded the state mean in red type. Thunderstorms and wind are well below the state mean indicating that these hazards have historically produced fewer losses for the county when compared to the state as a whole.

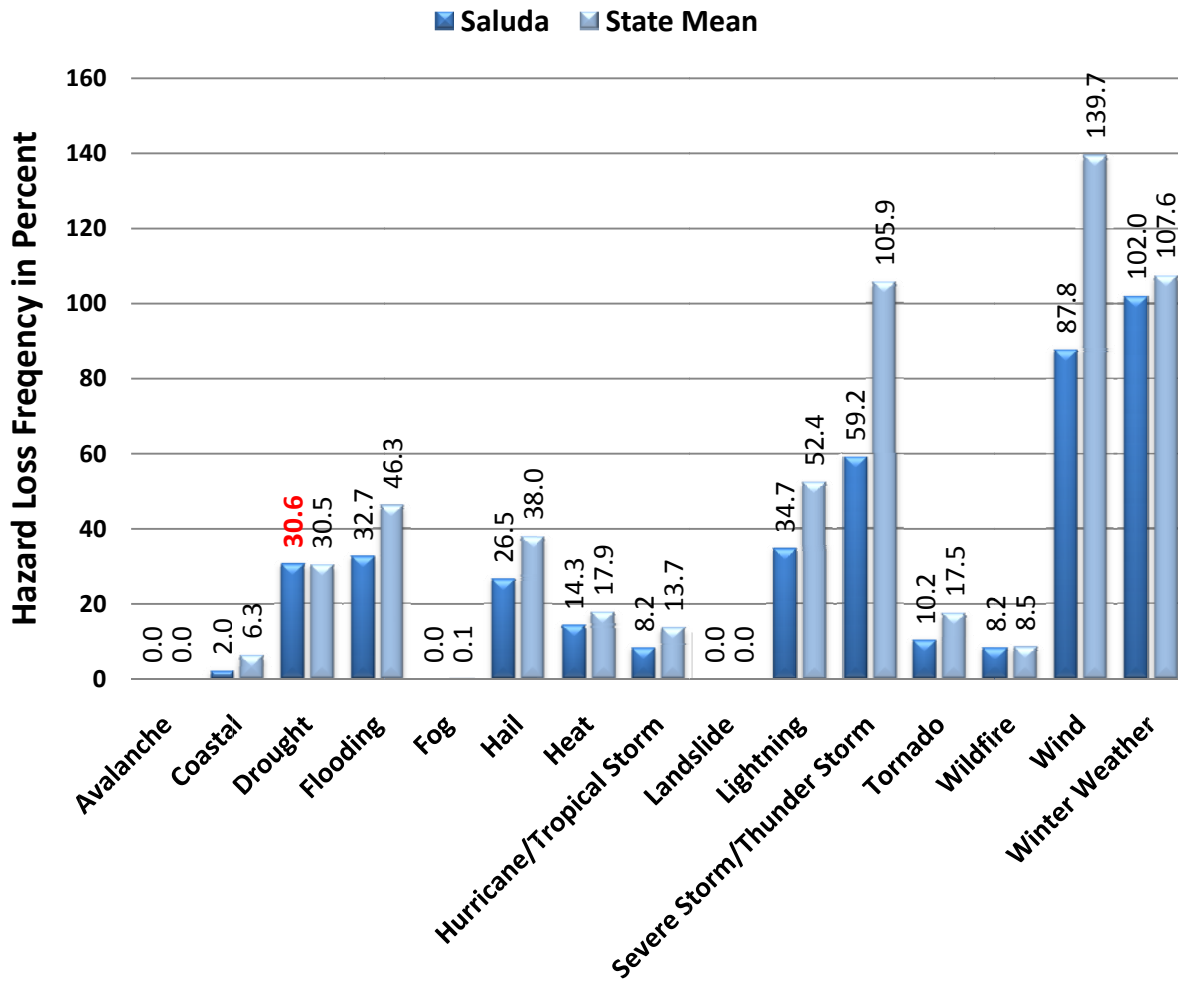


FIGURE 2. The historic loss causing hazard frequency between 1960 and 2008 for Saluda County compared to South Carolina as reported in SHELDUS. Percentage numbers indicated in red are when the county total exceeds the state mean. Also, a hazard that is identified in the National Climatic Data Center Storm Data reports as a multiple event hazard (flooding, winter weather, coastal storm), and given a statewide or regional location, the impact of the event is equally distributed amongst the counties involved.

Another way of determining how vulnerable a county is to particular hazards is by examining the amount of damage caused by past events. In Figure 3 (page 4), the cumulative amount of damage from 1960 to 2008 based on twelve hazard types is computed from the Hazards and Vulnerability Research Institute’s SHELDUS database (available at <http://www.sheldus.org>). The historic losses in Saluda County exceed \$50 million, and are largely due to winter weather drought, and heat. While significant for the county, these cumulative losses represent less than one percent of the state’s total overall, but 5% of the state’s total damages related to hail events.

Hazard	Total Damage (in 2008 dollars)	Percent of State
Coastal	\$6,476	0.01%
Drought	\$14,058,478	2.17%
Flooding	\$354,764	0.23%
Hail	\$5,442,621	5.28%
Heat	\$11,286,643	2.17%
Hurricane/ Tropical Storm	\$975,831	0.02%
Lightning	\$273,696	0.52%
Severe Storm/ Thunder Storm	\$589,547	0.28%
Tornado	\$1,612,882	0.68%
Wildfire	\$334,042	2.09%
Wind	\$455,255	0.31%
Winter Weather	\$15,300,169	1.70%
Saluda - Total	\$50,690,405	0.53%

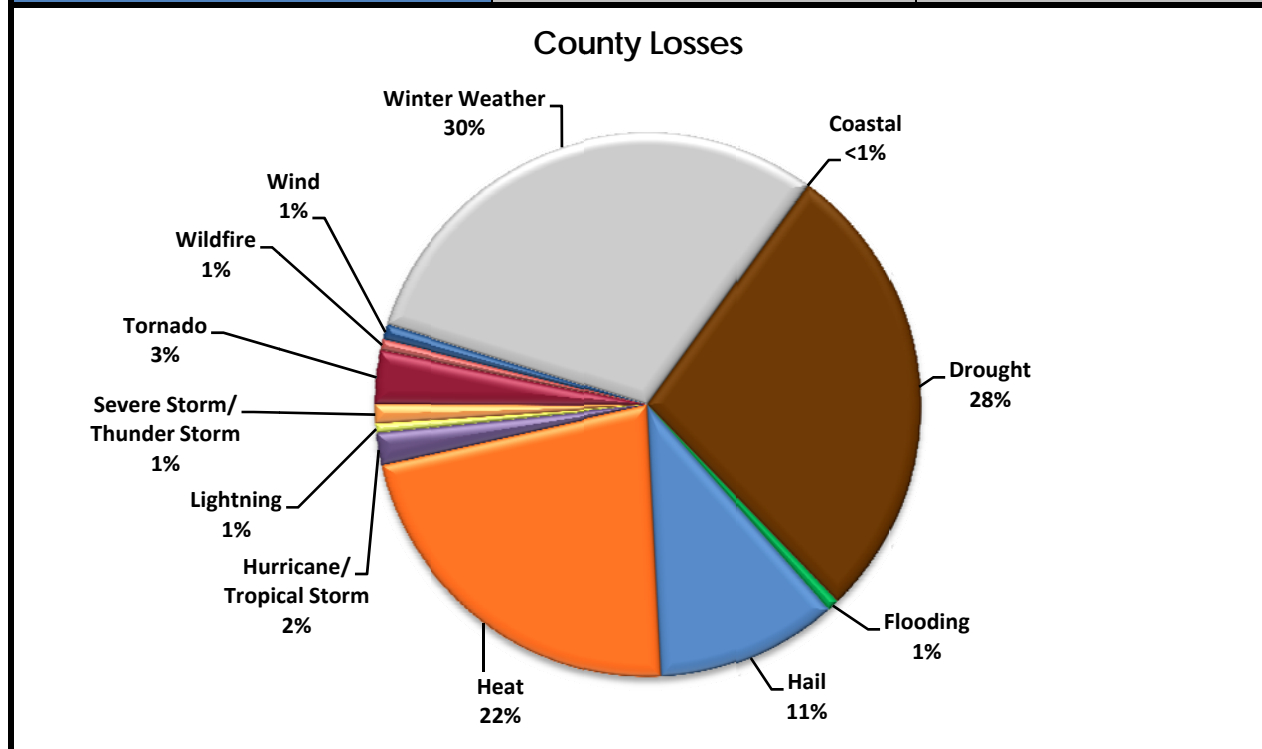


FIGURE 3. Historic Hazard Event Damages (property and crop) between 1960 and 2008 for Saluda County, SC.