

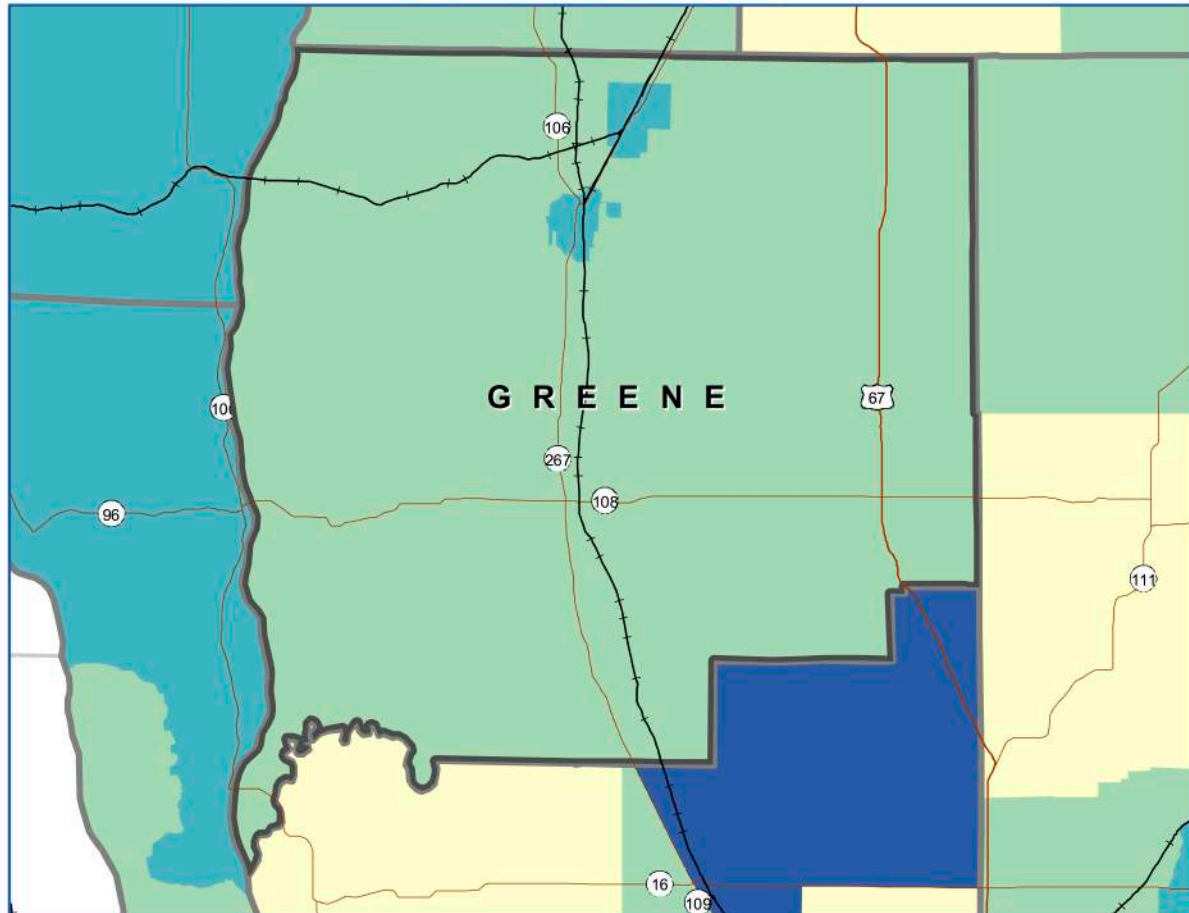


# Social Vulnerability Index 2010

Greene County, Illinois

PART 1

## Overall Social Vulnerability<sup>1</sup>



**Social vulnerability** refers to a community's capacity to prepare for and respond to the stress of hazardous events ranging from natural disasters, such as tornadoes or disease outbreaks, to human-caused threats, such as toxic chemical spills. The **Social Vulnerability Index (SVI 2010)<sup>4</sup> County Map** depicts the social vulnerability of communities, at census tract level, within a specified county. SVI 2010 groups **fourteen census-derived factors** into **four themes** that summarize the extent to

which the area is socially vulnerable to disaster. The factors include economic data as well as data regarding education, family characteristics, housing, language ability, ethnicity, and vehicle access. Overall Social Vulnerability combines all the variables to provide a comprehensive assessment.

MAP PRODUCED 3/18/2014

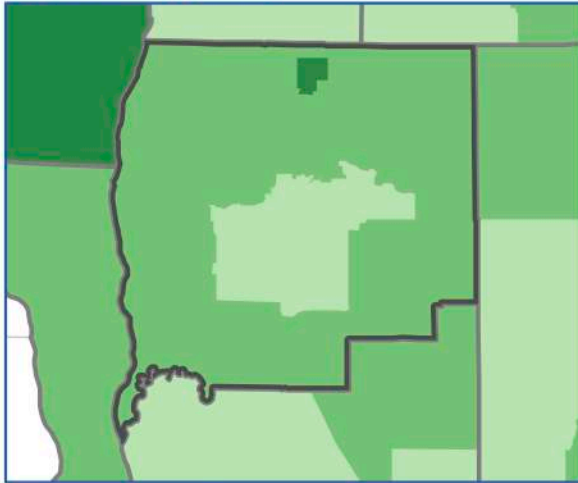
Agency for Toxic Substances and Disease Registry  
Division of Toxicology and Human Health Sciences



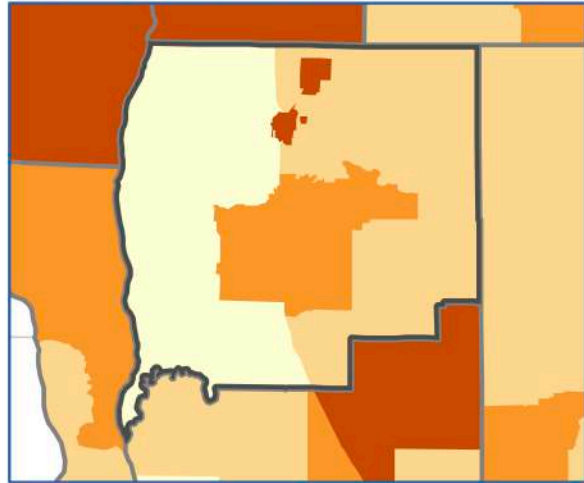
FINAL - FOR EXTERNAL USE

SVI Themes

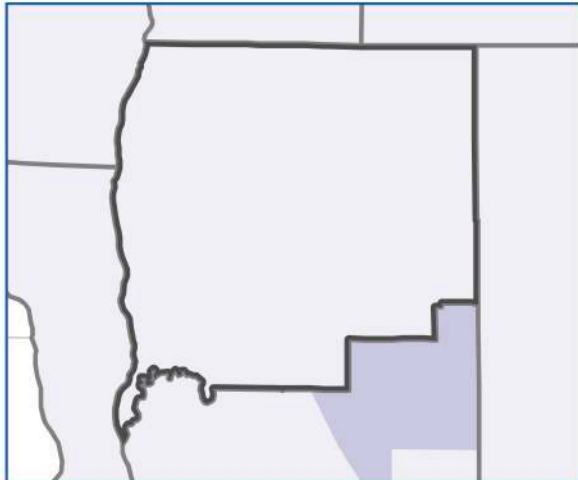
Socioeconomic Status<sup>5</sup>



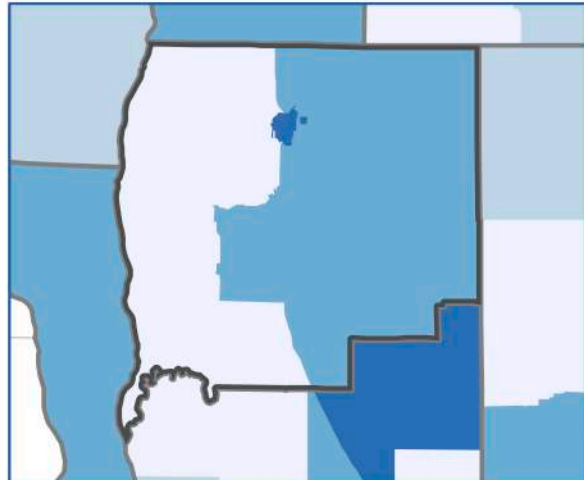
Household Composition<sup>6</sup>



Race/Ethnicity/Language<sup>7</sup>



Housing/Transportation<sup>8</sup>



Data Sources: <sup>1</sup>ATSDR GRASP.

Notes: <sup>1</sup>Overall Social Vulnerability: All 14 variables. <sup>2</sup>Census tracts with 0 population. <sup>3</sup>The SVI combines percentile rankings of US Census 2010 and American Community Survey (ACS) 2006-2010 variables, for the state of interest, at the census tract level. <sup>4</sup>Socioeconomic Status: Poverty, Unemployed, Per Capita Income, No High School Diploma. <sup>5</sup>Household Composition: Aged 65 and Over, Aged 17 and Younger, Single-parent Household. <sup>6</sup>Race/Ethnicity/Language: Minority, English Language Ability. <sup>7</sup>Housing/Transportation: Multi-unit, Mobile Homes, Crowding, No Vehicle, Group Quarters.

Projection: Illinois Transverse Mercator NAD83 (ILGIC).

Reference: Flanagan, B.E., et al., A Social Vulnerability Index for Disaster Management. *Journal of Homeland Security and Emergency Management*, 2011. 8(1).

### **Heat Illness in Greene County, Illinois**

Data from IDPH show that between 1987 and 2014, 18 people in Greene County were hospitalized for heat illness. The population of Greene County was 13,886 in the 2010 census. The rate of hospitalization for heat illness in Greene County is 4.36. This is 76% greater than the rate of Cook County, where the devastating 1995 Chicago heat wave occurred in which over 700 people died.

The known risk factors for dying of heat stroke include living alone, lack of air conditioning, being elderly, and having chronic medical and psychiatric conditions. Doing strenuous work outdoors in the heat also puts people at risk for potentially fatal heat illness.