

Investigating Demographics and Flood Data in Texas using GIS

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Fall 2024 GRG Environmental GIS

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Abstract

For our project we will be analyzing and investigating demographics and their relationship with flooding as well as the effects they have on people and land cover before, during and after a flood, all within Texas. Attributes that are analyzed include the population and income by county within Texas, location of prone flood areas, as well as relief centers available to those affected by a flood. As people that live in flood prone areas typically have a lower income and struggle to keep up financially if they are repeatedly hit with flood after flood causing relocation and prolonged economic anxiety. We found that metropolitans contain a high level of population and an increased income. This is due to the availability of business practice, job opportunities and the high level of costs that come with living in cities such as Houston, or Austin. Similarly we found that there is a significant increase in the number of relief centers in those counties with increased population density. This may be due to the fact that these counties have better means of providing for their communities where there are more resources, currency and individuals available to provide aid.