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Spatial Regression Analysis of Refugee Settlement: Greeley, Colorado, 2012-2013

Geography

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This project is going to look at the location of refugees in Greeley Colorado and Census Block Group information such as income levels, education, density, and crime to see if there's any correlation. The significance of this study is to look at the refugee conditions in the western United States. The hypothesis is refugee settlement in Greeley, Colorado is determined by factors such as density, educational levels, income, and cost of living. Research methodology includes using survey information provided by the Global Refugee Center of 488 refugees in Greeley. Census block group information will also be used. The program to map out the regression analysis will be ArcGIS. The project will first begin with Ordinary Least Squares Analysis to see if there is any strong correlation between location of refugee settlement and factors such as education, income, and cost of living. Next step in the process will be using tools to assure that spatial autocorrelation is not present within the data. From there Geographically Weighted Regression will be used as it accounts for local variation more accurately as compared to Ordinary Least Squares. The Anticipated outcome of this project is that there will be correlation present between refugee settlement and income levels and cost of living. Current research conclusions have found no correlation between housing density and refugee settlement.