GROUP 5 FINAL TEAM PROJECT

BRENNAN, ELIZABETH, ALEX, JASON AND CHARLOTTE

VULNERABLE NEIGHBORHOODS OF ALACHUA COUNTY

OBJECTIVE

Use ArcMaps to determine vulnerable neighborhoods of Alachua county in regards to crime and incarceration of the population.

Criminal law focuses in on two theories: micro and macro. When we analyze macro theory for better resource distribution, we see that crime patterns occur at a much larger scale than just individual units of behavior. Therefore, the five indicators chosen to measure vulnerability cover a number of different examples of how resources have been distributed and how they affect crime rates on a broader scale.

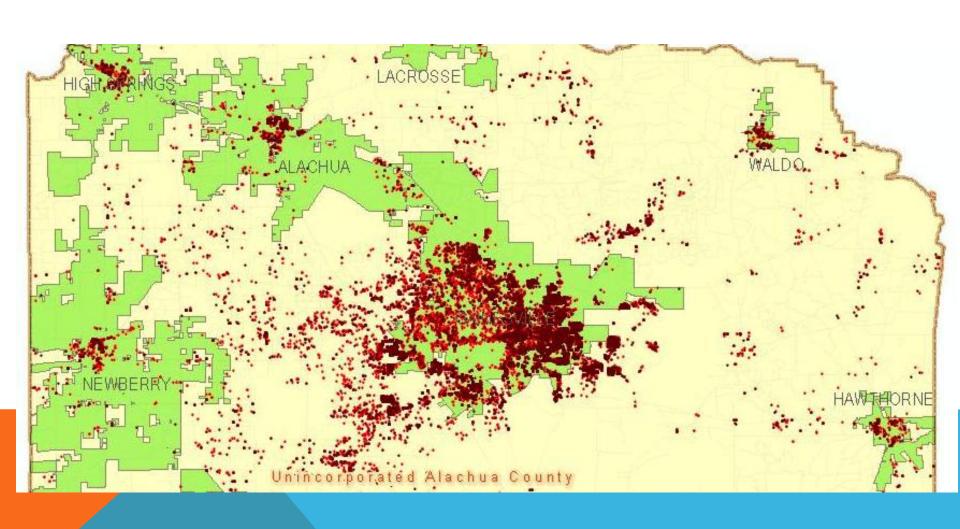
OBJECTIVES

The five categories chosen depict correlation between crime and:

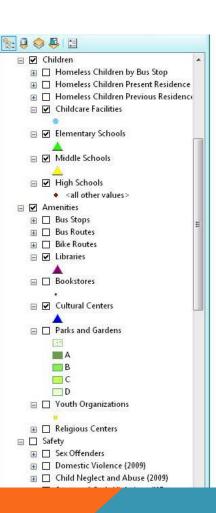
- **1. Education**; determining whether proximity to education has an impact on crime.
- **2 Public Food and Housing Resources**; Is the public spending serving the community and properly assisting those in need?
- **3. Population Density**; Looking for a connection between high density and crime rates.
- **4. Income Level**; Are there any peculiarities in regards to low/high income areas and crime?
- 5. Public Resource Facilities; Is there a common theme occurring between crime and public resources?

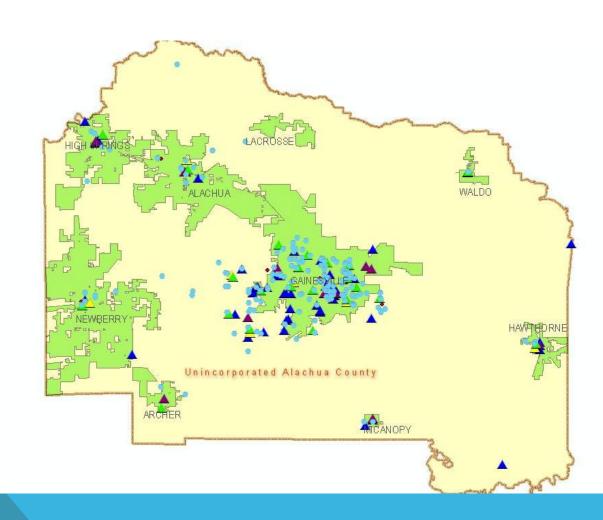
Note: Correlation does not prove causation.

INCARCERATIONS ACROSS ALACHUA COUNTY

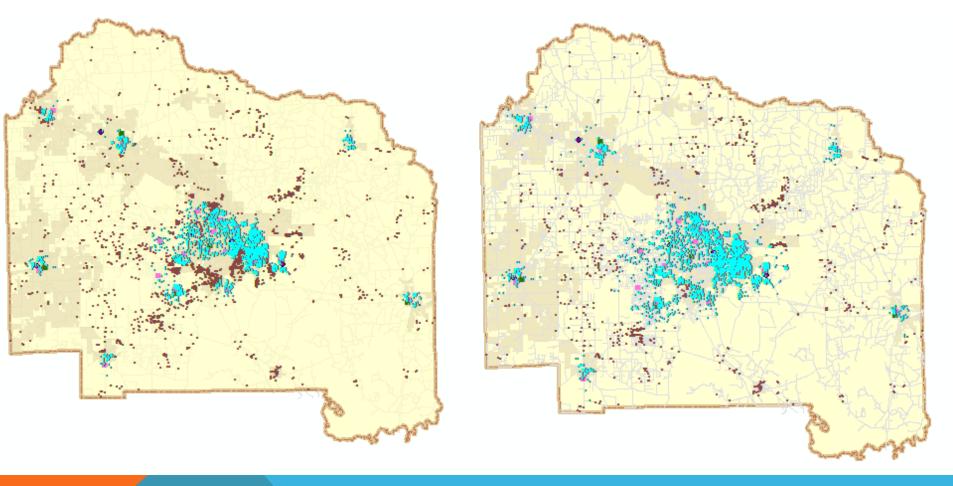


PUBLIC EDUCATION FACILITIES

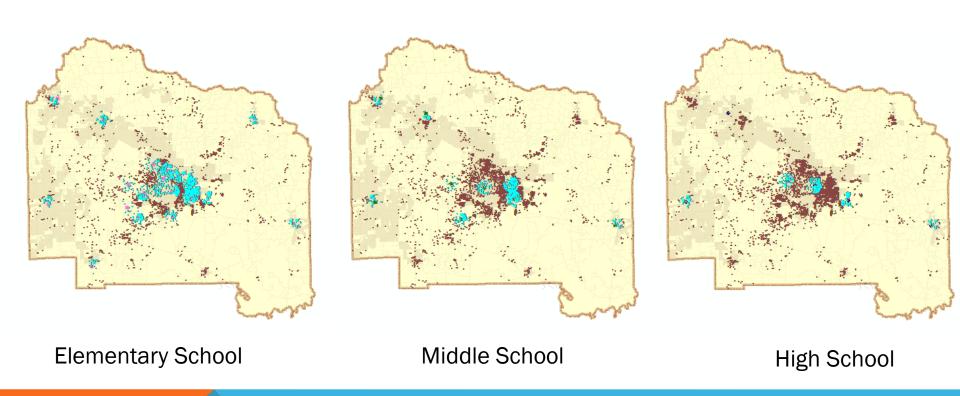




INCARCERATIONS IN 1 AND 2 MILE RADIUS FROM SCHOOLS

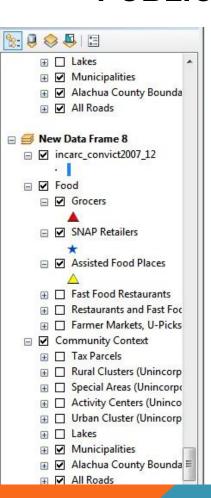


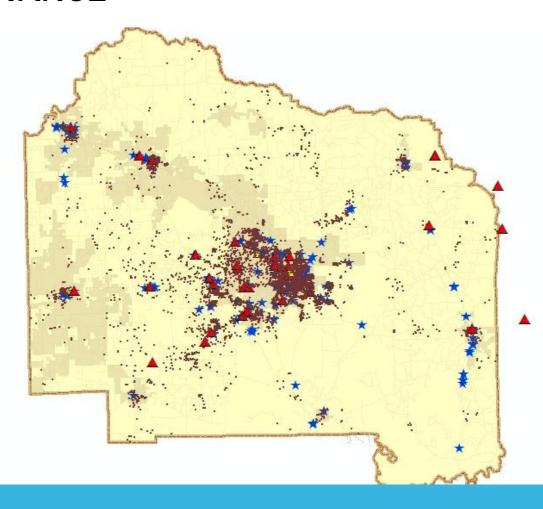
DIFFERENT SCHOOL LEVELS



Ironically, more crime is concentrated around elementary schools than middle or high schools. This suggests that the older generation has missed out on education. Could this mean that education is having a positive influence on the younger generation?

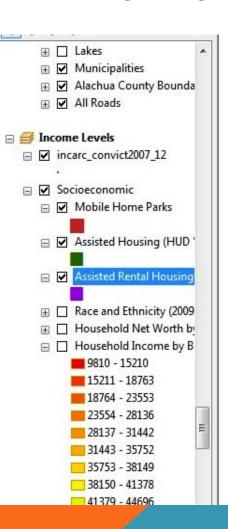
PUBLIC FOOD ASSISTANCE

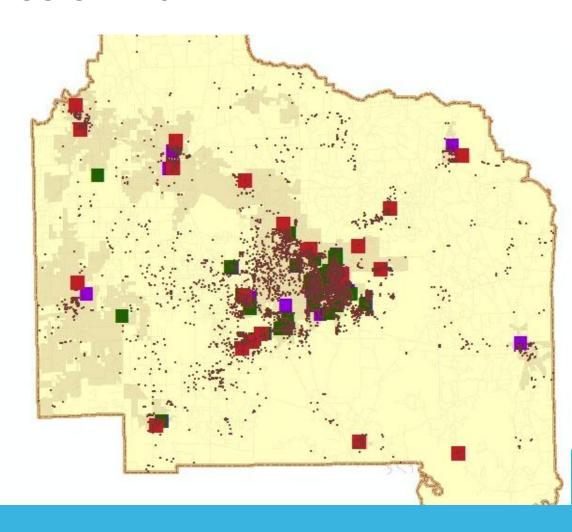




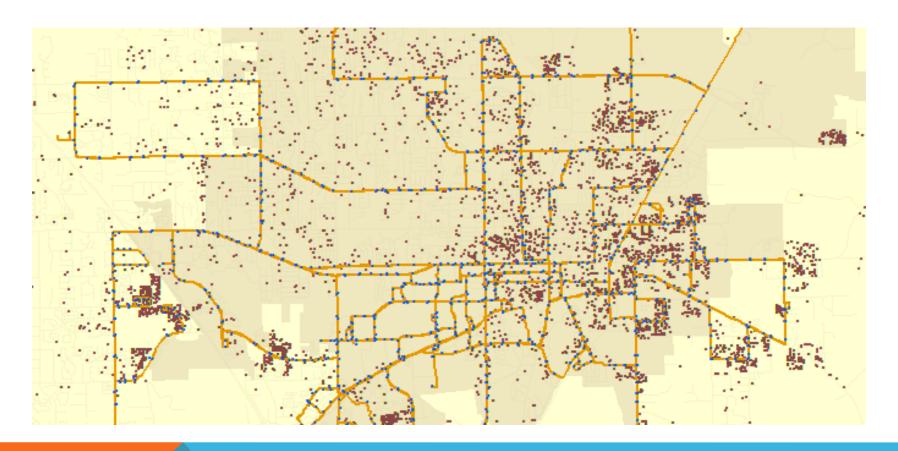
It can be suggested that the public spending invested into assisted food programs and living relieves criminals of their survival responsibilities, but does not necessarily deter them from committing crime.

PUBLIC HOUSING ASSISTANCE





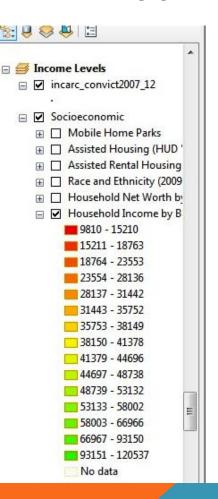
PUBLIC TRANSPORTATION

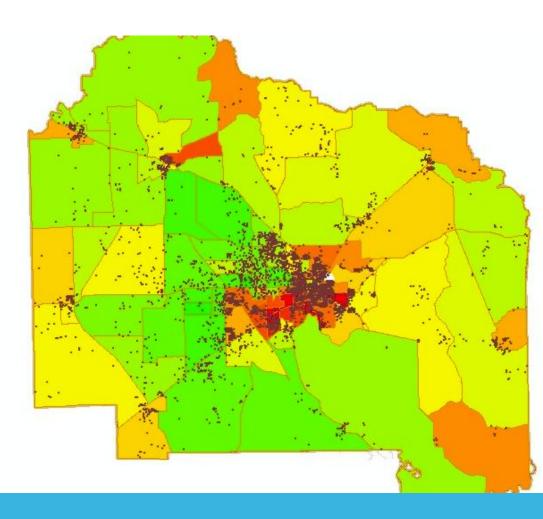


What can be said about the correlation between these major crime clusters along the bus routes of Gainesville?

What methods were used to develop this map?

INCOME LEVEL





METHODS USED

Spatial Queries

Symbology

Layer changes and preference

Definitions

Selection by attribute

Selection by Location

Vector comparison

Cross reference

Range adjustments

FINAL STATEMENT

We have found that fluctuations in crime rates do not necessarily always associate with increased public spending regarding the 5 categories we explored.

Through different GIS methods performed in ArcMaps ,we could develop a unique understanding about the faults in public spending most evident in Gainesville. ArcGIS simplified the research and made the data clear for the viewer to interpret.