POPULATION DECREASE IN INNER CITY BY GROWTH OF SUBURBAN COMMUNITIES: A CASE STUDY OF JACKSON METROPOLITAN AREA

Research Proposal

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Who the Problem Affects?

Inner Cities Such As Jackson, MS Have Shown Decline and Ring Cities (Madison, Clinton, Ridgeland, Byram, And Pearl) Have Shown Significant Growth. (Schaefer 2011)



How Does the Problem Affect Them?

- Rising Crime Rates (Mallach 2010)
- Continued Middle Class
 Flight (Mallach 2010)



Source: Census.gov

How Does the Problem Affect Them?



How Does the Problem Affect Them?

- Weak Housing Demand (Mallach 2010)
- Increasing Impoverished Resident Population (Swain 2015)



Source: City of Jackson CAFR

Major Causes of the Problem

- Population Impact on Inner City and Ring Cities
 - 1. Out-Migration of Population (Yin and Sun 2007)
 - 2. Income and Racial Segregation (Yin and Sun 2007)
 - 3. Lost Revenues and Increased Taxes (Sly 1980)
 - 4. Ring Cities are Now the "Hub Life" of MSA (Sly 1980)



Major Causes of the Problem

- Crime Impact on Inner City and Ring Cities
 - Between 1970 and 2010 More People Incarcerated in the United States than Any Country (Thompson 2010)
 - 2. Mass Incarceration in the Inner City Inhabitants (Thompson 2010)
 - 3. Creating Million Dollar Blocks (Thompson 2010)

 Incarceration Frequency In Mississippi

 800
 749

 700
 597

 600
 597

 500
 362

 300
 362

 100
 106

 101
 106

 102
 1978

 1981
 1981
 1981

Source: Bureau of Justice Statistics, Corrections Statistics Analysis Tool

Consequences if the Problem is Not Addressed

- Continued Population
 Decline
- Job sprawl and spatial mismatch
- Poor Quality Schooling
- Increased Crime in Urban Area
- White Flight
- Urban Disinvestment



Interventions and Barriers for Inner City Decline Due to Ring City Growth

- Major Interventions to Resolve the Problem (Mallach 2010)
 - White House Office of Urban Affairs
 - Housing and Economic Act of 2008 (Named Neighborhood Stabilization Program by HUD)
 - American Recovery and Reinvestment Act
- Barriers to Successful Intervention
 - Federal and State Policy Makers Mixed Views for Addressing Urban Decline

Interventions Appearing to be Promising

- Downtown Jackson has experienced \$700 million in development since 2005, and there is more than \$160 million of projects currently underway or on the drawing board.
- King Edward Hilton Garden Inn
- Jackson Convention Complex
- Standard Life Building
- Capitol Street Renaissance



Research Questions

- 1. How has Department of Justice funding impacted the rise of ring cities and the decline of the central city?
- 2. How has property crime impacted the rise of ring cities and the decline of the central city?
- 3. How has violent crime impacted the rise of ring cities and the decline of the central city?
- 4. How has murder and nonnegligent manslaughter impacted the rise of ring cities and the decline of the central city?
- 5. How has robbery impacted the rise of ring cities and the decline of the central city?

Research Hypotheses

• Research Hypothesis:

- H₁: There Is a Relationship Between Murder and Out Migration.
- H₂: There Is a Relationship Between Violent Crime and Out Migration.
- H₃: There Is a Relationship Between Robbery and Out Migration.
- H₄: There Is a Relationship Between Property Crime Cost and Out Migration.

• Null Hypothesis:

• H_O: There Is No Relationship Between Crime Incidents and Out Migration.

Data Analysis

- In the research proposal, the study will use determined level of measurement, carefully constructed research questions, data selection, and selected variables to test reliability and validity of research.
- The selection of cities with comparable demographics was important for reliability.

Data Analysis

- The study will use secondary data whose measures have been used before and whose reliability and validity have been established. The study will attempt to prove the hypothesis by studying three cities (Mobile AL and Shreveport LA) comparable with Jackson, MS and its ring cities.
- The study will compare the state of urban decline on the three MSAs based on the factors determined in the literature review and selected data analysis.

- The Study Will Use Quantitative Methods To Test The Hypothesis In The Study Through Deductive Research.
- The Independent Variables are Murder, Violent Crime, Robbery, and Property Crime And Dependent Variable Is Out Migration of Inner City Population.
- The Study Will Be Attempting To Show A Negative Association Between The Variables.
- Measures In Study Will be Tested With Regression and Correlation.

- Regression and Correlation A scatter diagram (also called scatterplot) is a quick visual method used to display relationships between two interval-ratio variables (Frankfort-Nachmias and Leon-Guerrero 2015).
- Equations for all straight lines have the same general form: = a + b(X)
- The best-fitting regression line is that line where the residual sum of squares, or $\sum e^2$, is at a minimum. Such a line is called the least squares line, and the technique that produces this line is called the least squares method.

- The coefficient of determination (r2) and Pearson's correlation coefficient (r) measure how well the regression model fits the data. Pearson's r also measures the strength of the association between the two variables.
- The general form of the multiple regression equation involving two independent variables is:
 = a + b1(X1) + b2(X2)
- Pearson's r is a measure of relationship or association for interval-ratio variables.
- Like gamma, it ranges from 0.0 to ±1.0, with 0.0 indicating no association between the two variables(Frankfort-Nachmias and Leon-Guerrero 2015).

- The Study Will Attempt To Prove The Hypothesis By Studying Three Cities (Mobile AL and Shreveport LA) Comparable with Jackson, MS and Its Ring Cities.
- The Study Will Compare The State Of Urban Decline On The Three MSAs Based On The Factors Determined In The Literature Review and Selected Data Analysis.
- The Quasi-Experimental Design Of Research Will Be Used Because Matching (Nonequivalent Control Group Design) Instead Of Randomization Is Used In The Study, And The Unit Of Analysis Is Not Individuals.

Research Findings for Murder and Out Migration



Research Findings for Murder and Out Migration

- The R Square is 0.074 with P value of 0.027.
- Based on the results, I will reject the null hypothesis.
- The favorability is greater than 70%.

Scatterplot of Murder and Out Migration 80,000 70,000 60,000 50,000 tio Migrat 40,000 30,000 y = 352.08x + 36038 20,000 $R^2 = 0.7415$ 10,000 0 10 20 50 60 70 0 30 40 Murder Cases

Research Findings for Violent Crime and Out Migration



Jackson Violent Crime Incidents (Murder and Manslaughter, Rape, Robbery, Aggravated Assault)

Research Findings for Violent Crime and Out Migration

- The R Square is 0.739 with P value of 0.0279.
- Based on the results, I will reject the null hypothesis.
- The P value is less than .15. with favorability greater then 70%.

Scatterplot of Violent Crime and Out Migration



Research Findings for Robbery and Out Migration



Research Findings for Robbery and Out Migration

- The R Square is 0.687 with P value of 0.041.
- Based on the results, I will reject the research hypothesis.
- The favorability is too low on R Square.

Scatterplot of Robbery and Out Migration



Source: Uniform Crime Reporting Statistics - UCR Data Online

Research Findings for Property Crime and Out Migration



Jackson Property Crime (Burglary, Larceny, Motor Theft)

Outmigrants — Property Crime

Research Findings for Property Crime and Out Migration

- The R Square is 0.716 with P value of 0.033.
- Based on the results, I will reject the null hypothesis.
- The P value is less than .15 with favorability greater then 70%.

Scatterplot of Property Crime and Out Migration 80,000 y = 0.8689x + 4125170,000 $R^2 = 0.7162$ 60,000 ······ Migration 40,000 30,000 20,000 10,000 0 2.000 20.000 0 4.000 6.000 8.000 10.000 12.000 14.000 16.000 18.000 **Property Crime Loss**

Limitation

- Quasi-experiments More Generalizable Results Than True Experiments
- More Prone To Internal Invalidity Lack of Random Assignment

Delimitations

- The Study is Limited to 10 years of Urban Decline Data for 3 Cities in the South
- The Study Excludes the Other Regions in the United States

Theoretical Perspective

- Conflict Theory And Functional Theory
- The Fact That Ring Cities Have Shown Significantly Growth With The Inner City Experiencing Decline Illustrates The Characteristics Of Conflict And Functional Theory In This Study.
- Federal And State Policies That Create Ring City Growth With The Consequences Of Inner City Decline Demonstrates The Conflict Theory Between Ring City Residents And Inner City Residents For Public And Private Funding Or Resources.

Research Rationale

• This Research Will Evaluate The Current Ring City Policies In Jackson MS, Mobile AL, and Shreveport LA, And The Outcome Of How They Stimulate Ring Cities Growth In Contrast To Inner City Decline.

Research Significance

- This Research Will Examine The Effects Of How Crime has Negatively Impacted Inner City Decline Over The Past 10 Years.
- The Study Will Be Attempting To Show A Negative Association Between The Two Variables.

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