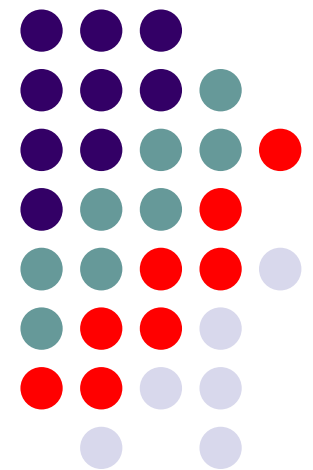
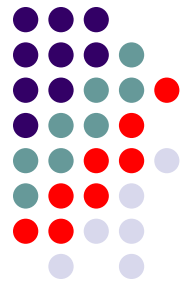


Crime Is Local: An Exploration of Violent Crime in St. Louis

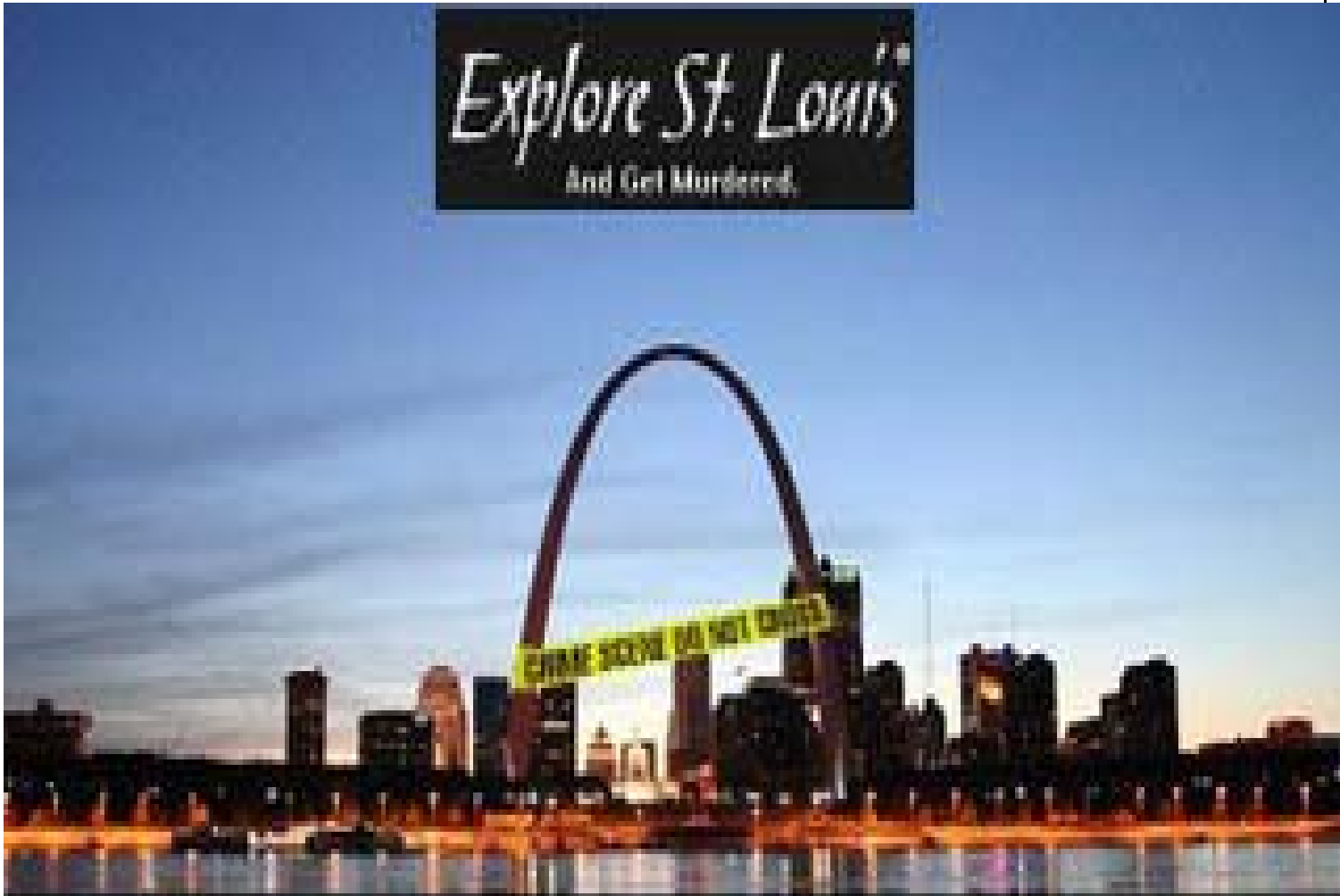
Beth M. Huebner

University of Missouri-St. Louis



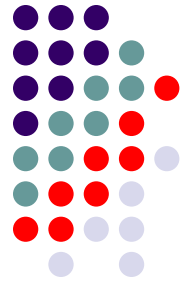


Explore St. Louis
And Get Murdered.



THE MOST VIOLENT CITY IN AMERICA

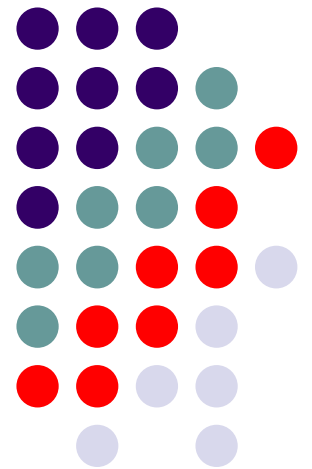
Problems with Crime Rankings

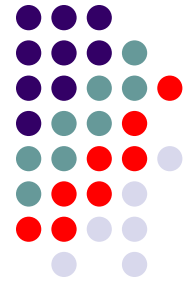


- What crimes are included in the rankings?
- How is crime measured?
- What is the geographic region covered by the rankings?
- Do the results consider changes in crime over time?
 - More information on crime trends in St. Louis and other cities
 - See – www.crimetrends.com produced by Richard Rosenfeld, Curators Professor, UMSL

What does the 'crime problem' look like in St. Louis?

Explanations of Risk





District Aggravated Assault and Murder Rates

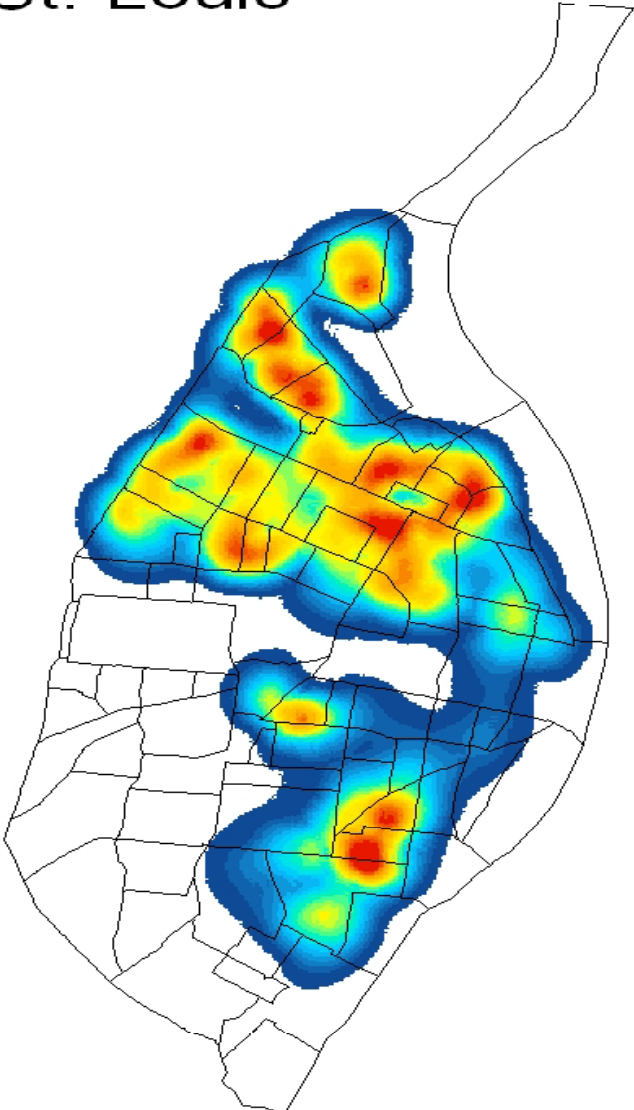
	Aggravated Assault Rate (per 10,000)	Murder Rate (per 10,000)
United States Average*	30.65	0.65
U.S. Districts of Comparable Size**	25.99	0.51
Eastern District of Missouri	35.52	0.73

*90 U.S. federal judicial districts

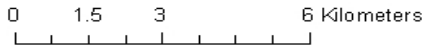
**Districts ranging from 2,100,000 to 3,500,000

Aggravated Assaults w/Firearm 2003-2005 in St. Louis

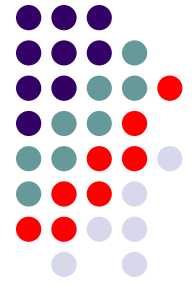
Concentration of Assaults



Data provided by St. Louis Police Department



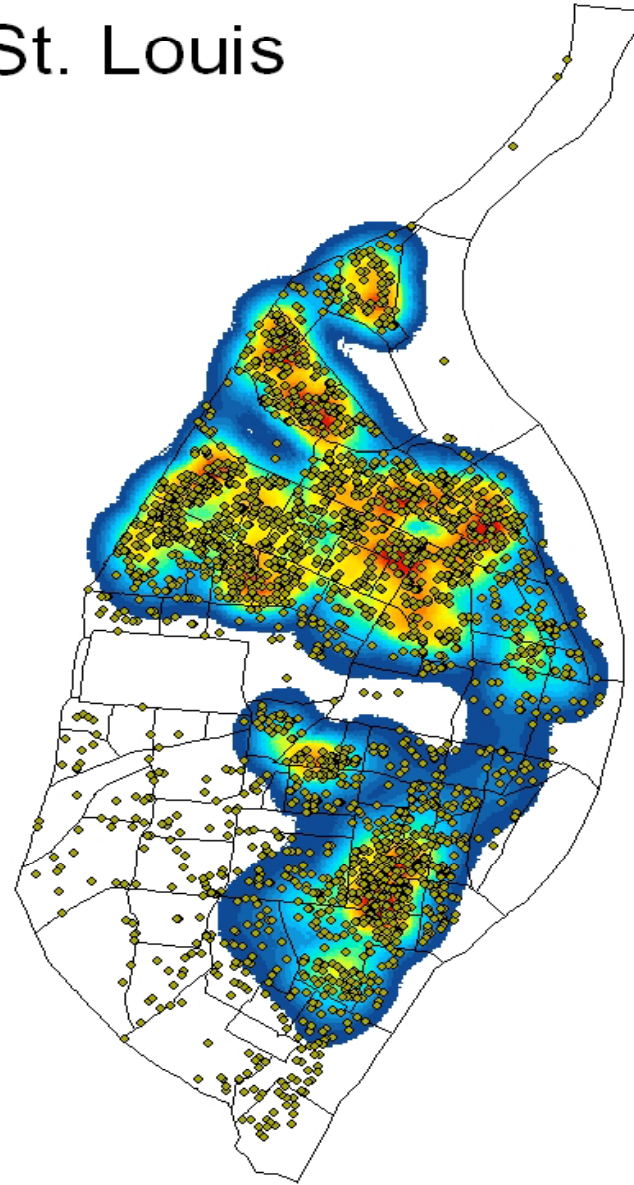
Gun Seizures and Aggravated Assaults w/Firearm 2003-2005 in St. Louis



Legend

◆ Gun Seizures

Concentration of Assaults



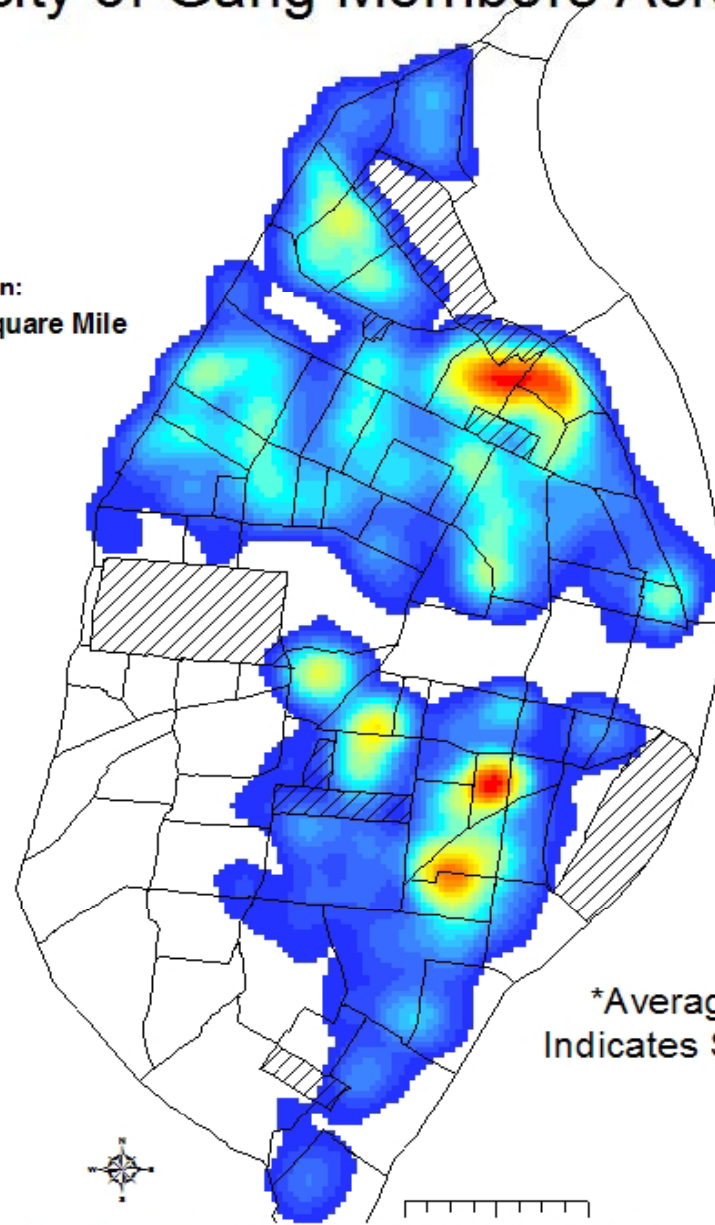
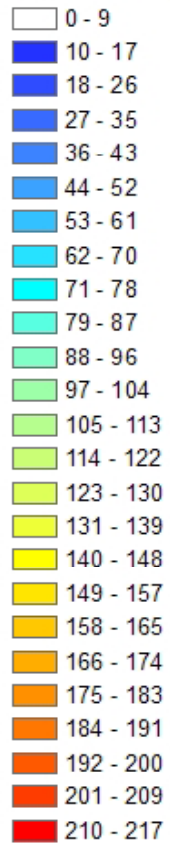
Data provided by St. Louis Police Department



Density of Gang Members Across St. Louis*

Legend

**Kernal Density Function:
Gang Members per Square Mile**

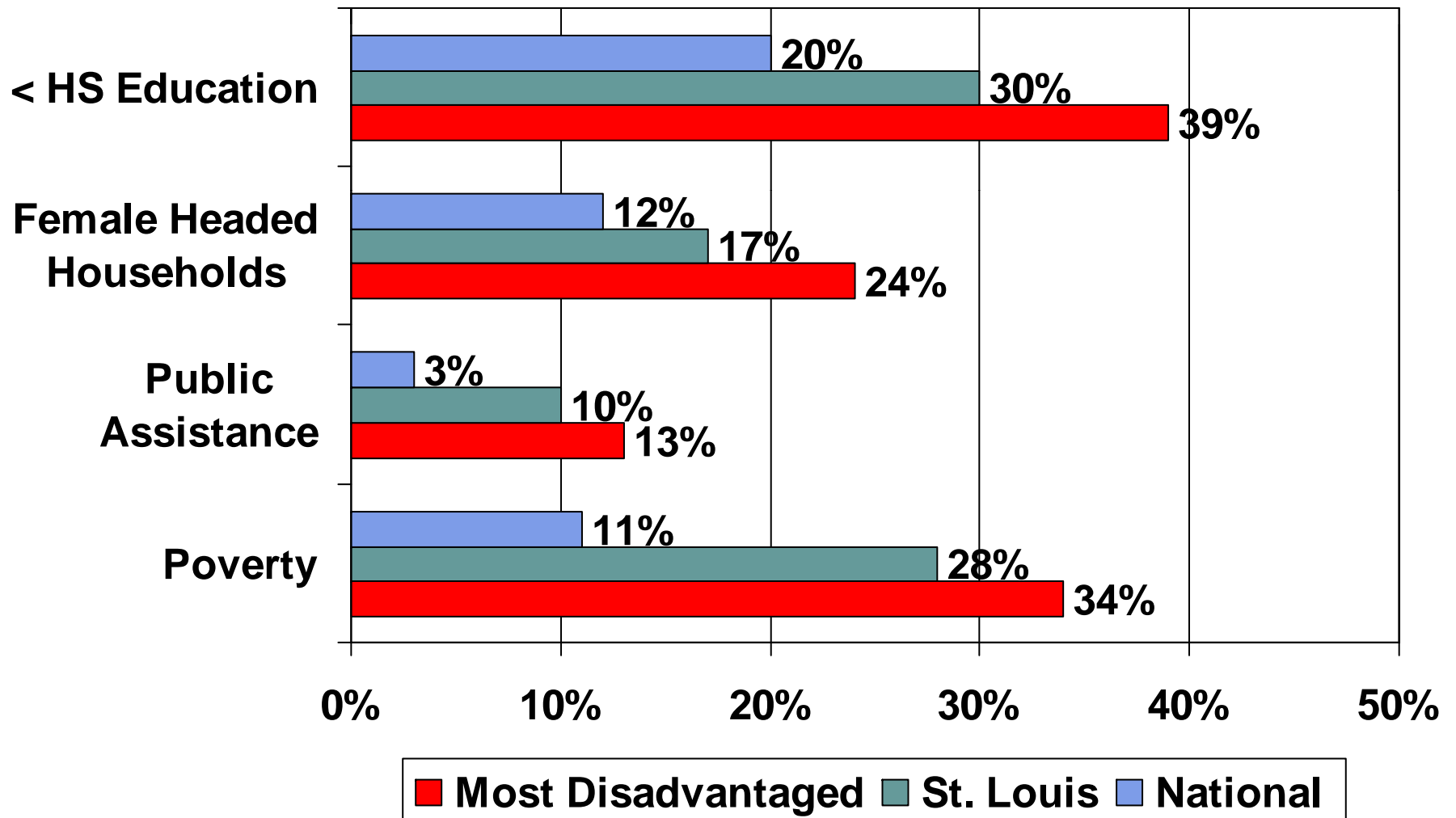
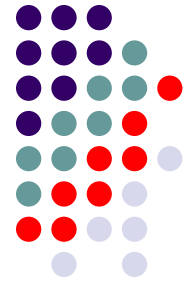


*Average Nearest Neighbor Test
Indicates Significant Clustering ($p < .01$)

Source: REJIS Gang Tracking System, St. Louis, MO

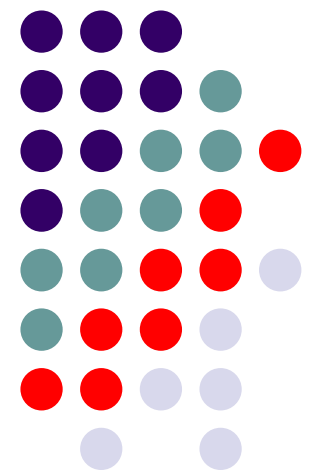
0 0.15 0.3 0.6 Miles

Neighborhood Disadvantage



Gun Crime in St. Louis

Where we live
Who we live by

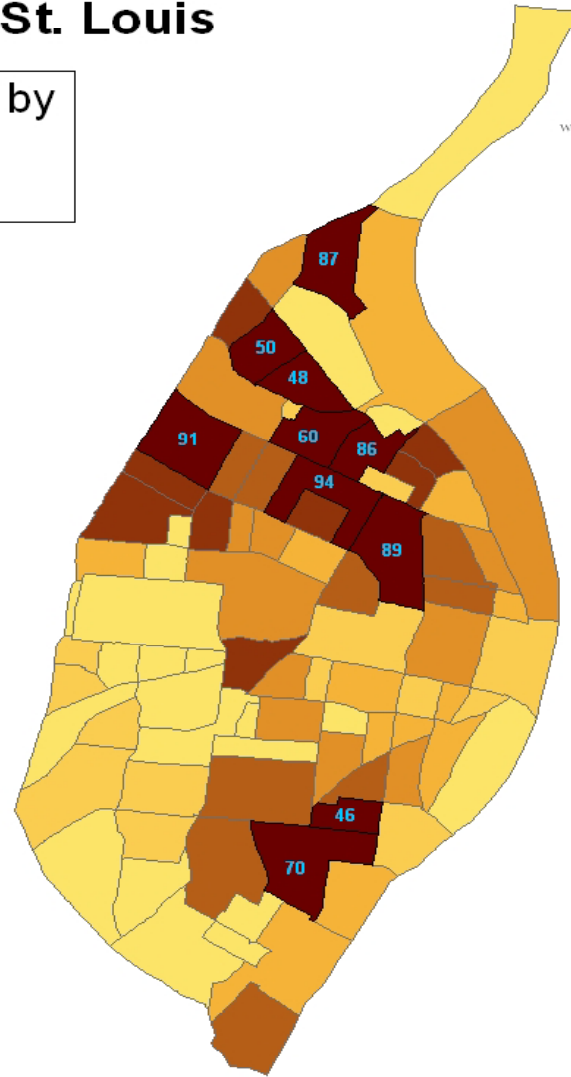
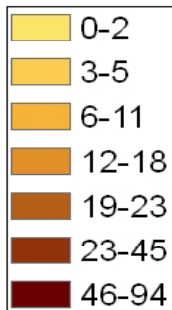


Concentration of Aggravated Assaults w/Firearm in St. Louis

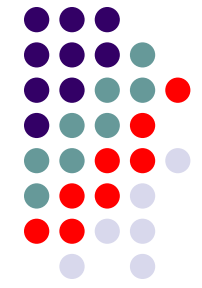
Neighborhoods listed by Number of Incidents and Name

- 94 The Greater Ville
- 91 Wells/Goodfellow
- 89 Jeff VanderLou
- 87 Baden
- 86 O'Fallon
- 70 Dutchtown
- 60 Penrose
- 50 Walnut Park East
- 48 Mark Twain
- 46 Gravois Park

Number of Aggravated Assaults



Data provided by St. Louis Police Department

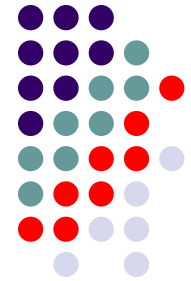
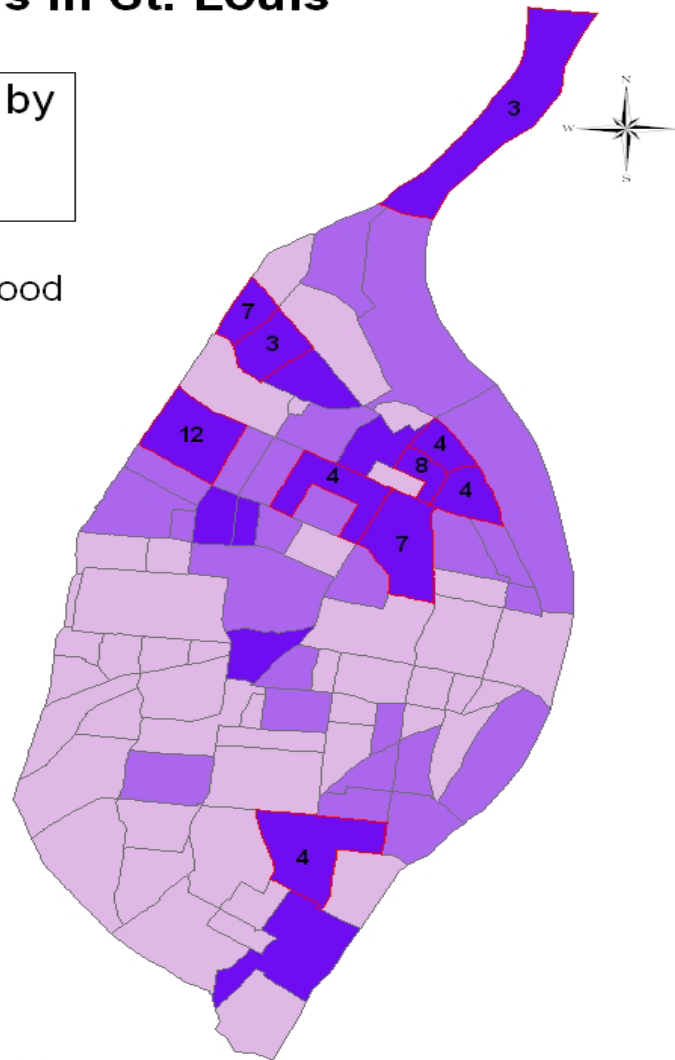
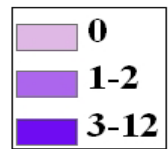


Concentration of Murders in St. Louis

Nighborhoods listed by Number of Incidents and Name

- 12 Wells/Goodfellow
- 8 Fairground Neighborhood
- 7 Walnut Park West
- 7 Jeff VanderLou
- 4 College Hill
- 4 The Greater Ville
- 4 Hyde Park
- 4 Dutchtown
- 3 Riverview
- 3 Walnut Park East

Number of Murders

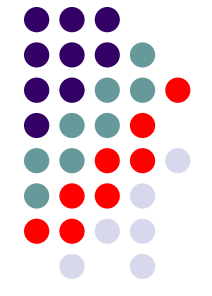
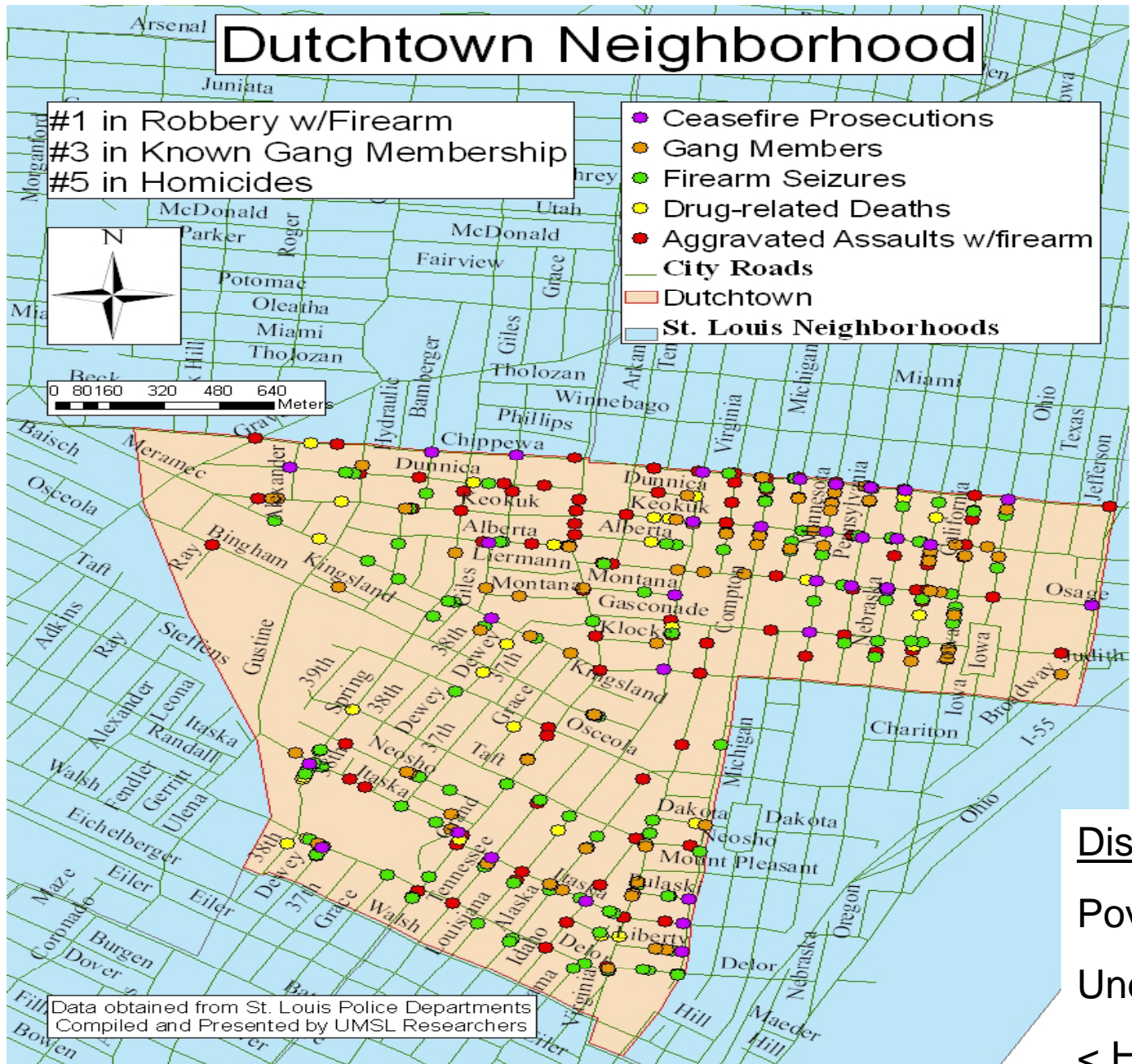


Data provided by St. Louis Police Department



Rates of Aggravated Assault with a Firearm

	Population	Incidents	Rate (per 1,000)
St. Louis City	<u>352,022</u>	<u>2,272</u>	<u>6.45</u>
Wells/ Goodfellow	8,193	91	11.11
Dutchtown	17,222	70	4.06
St. Louis County	<u>1,068,262</u>	<u>506</u>	<u>0.47</u>
Jennings	15,056	34	2.26
University City	37,493	58	1.55



Disadvantage

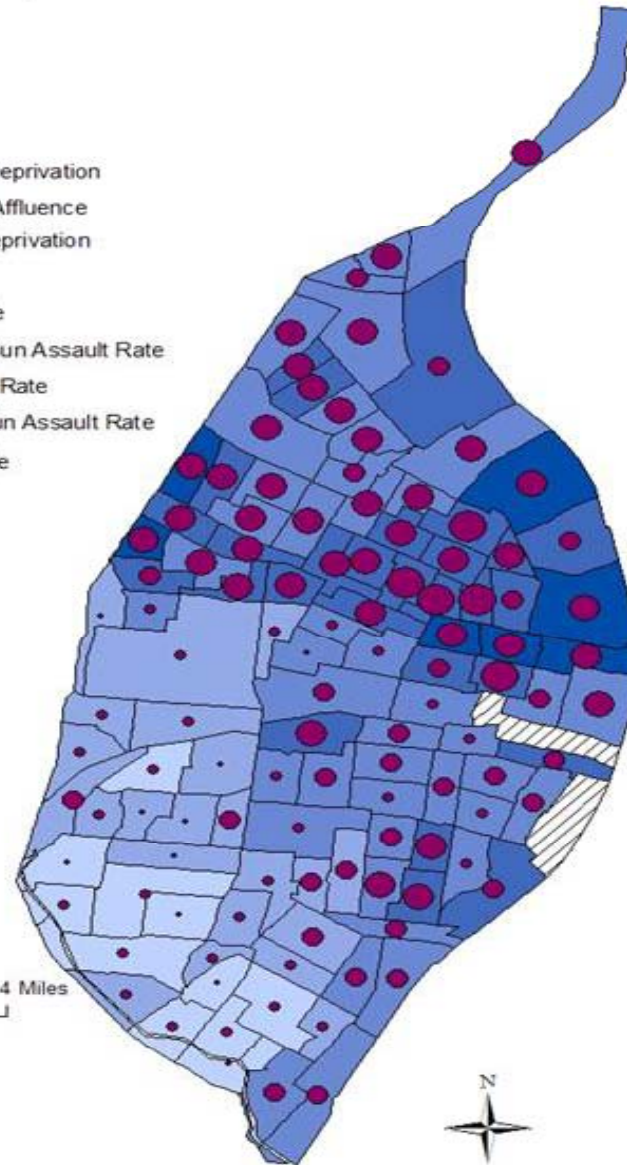
Poverty – 30%

Unemployment – 12%

< H.S. – 36%

Spatial Distribution of Gun Assaults and Resource Deprivation in St. Louis

Legend



Source: Gun assault data provided by the St. Louis Metropolitan Police Department. Resource deprivation is an index consisting of the following Census demographic characteristics: percent black, percent living below poverty, percent vacant housing units, percent receiving welfare, percent female headed households with children under 18.

Relative Risk and Clustering of Gun Assaults Across St. Louis Census Tracts, 2003-2005

Legend

Excess Risk of Gun Assaults (using 1990 Population)

Values and Interpretation:

- 0.0 - 0.25= Risk Much Less Than Expected (N=23)
- 0.251 - 0.50= Less Than Expected Risk (N=17)
- 0.501 - 1.00= Less Than Expected to Expected (1.00) Risk (N=22)
- 1.01 - 2.00= Greater Than Expected Risk (N=24)
- 2.01 - 4.00= Greater Than Expected Risk (N=24)
- > 4.00 = Risk Much Greater Than Expected (N=1)
- Non-Residential Census Tracts

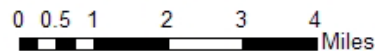
Legend

LISA w/ EB Smoothing Clustering Results:

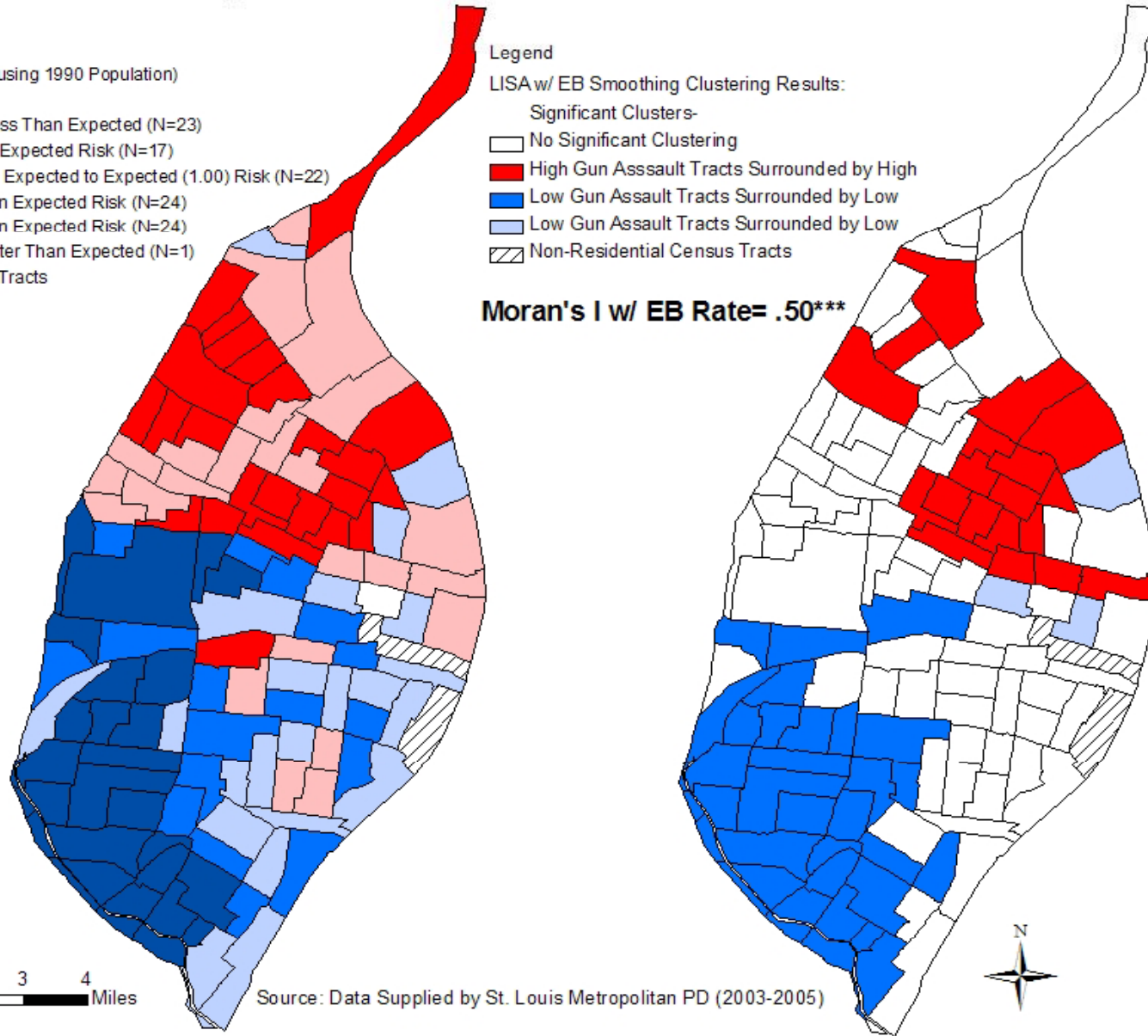
Significant Clusters-

- No Significant Clustering
- High Gun Assault Tracts Surrounded by High
- Low Gun Assault Tracts Surrounded by Low
- Low Gun Assault Tracts Surrounded by Low
- Non-Residential Census Tracts

Moran's I w/ EB Rate= .50***



Source: Data Supplied by St. Louis Metropolitan PD (2003-2005)









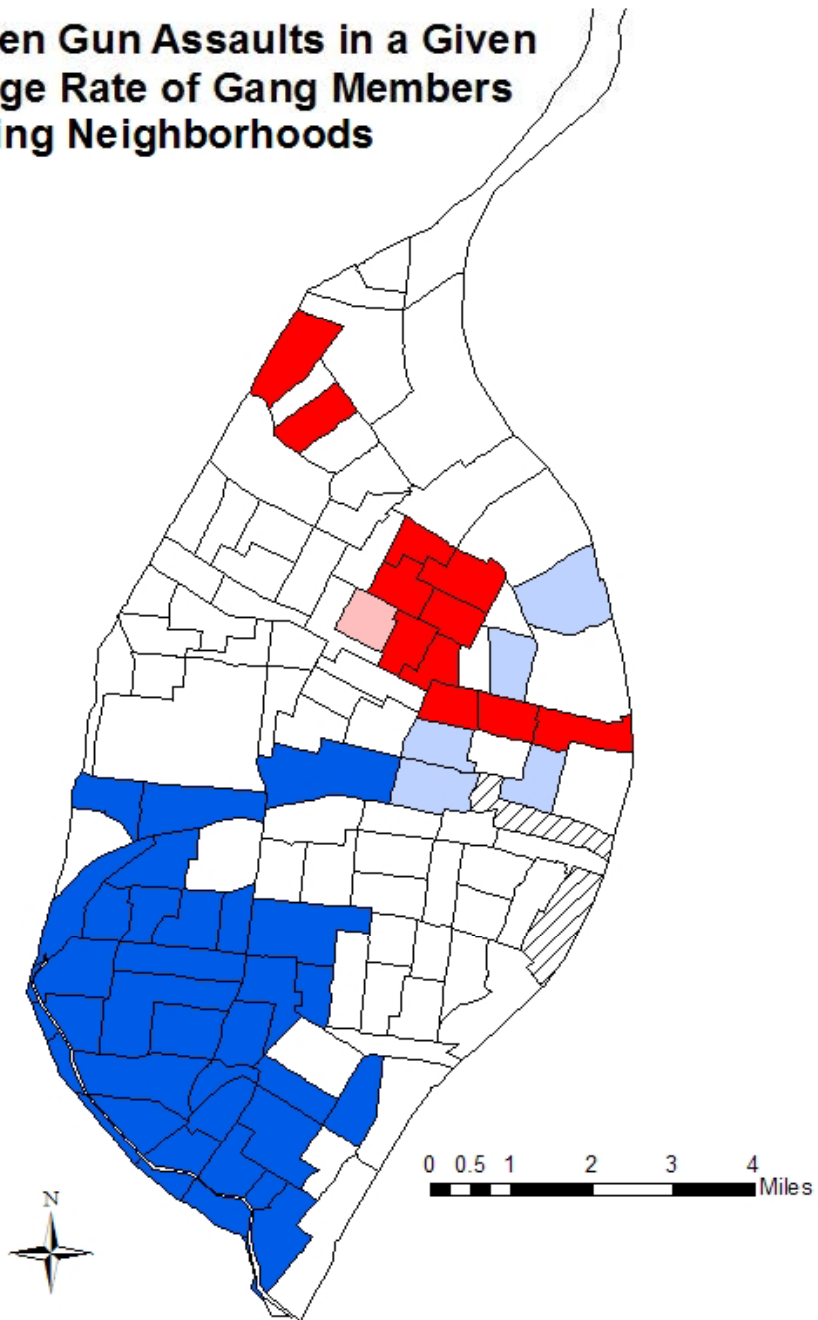
The Spatial Correlation Between Gun Assaults in a Given Neighborhood and the Average Rate of Gang Members Residing in Surrounding Neighborhoods

Legend

Bivariate LISA Results:

Values and Interpretation-

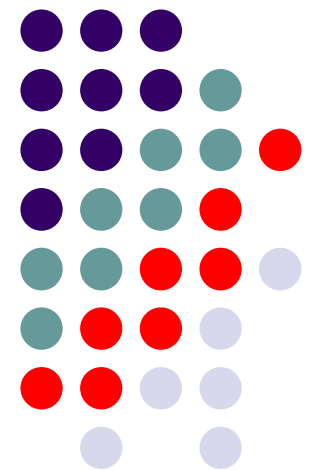
-  Non-significant
-  High Gun Assault Surrounded by High Gang
-  Low Gun Assault Surrounded by Low Gang
-  Low Gun Assault Surrounded by High Gang
-  High Gun Assault Surrounded by Low Gang
-  Non-Residential Tracts



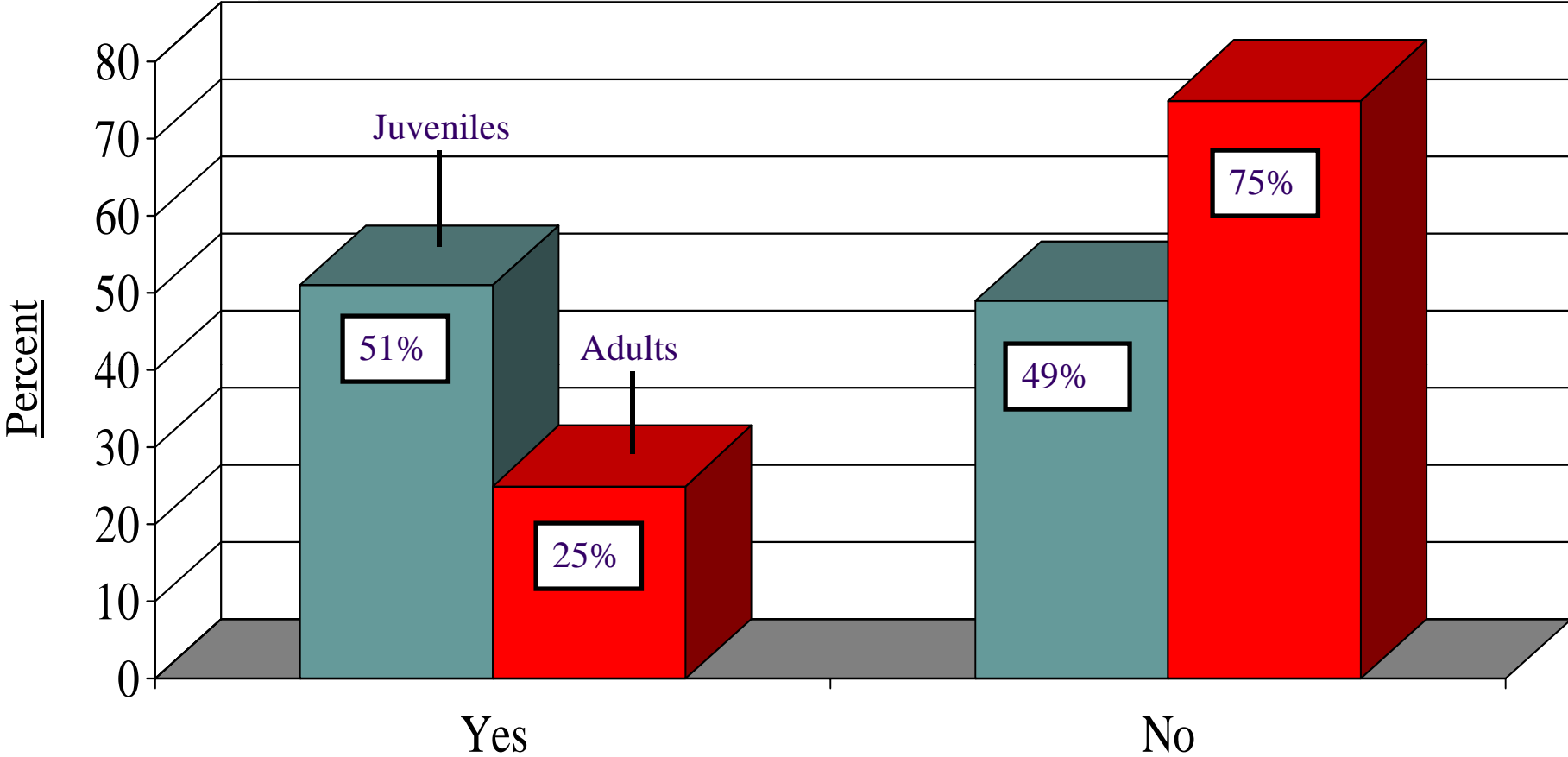
Source: Gang data supplied by REJIS' Gang Tracking System.
Gun Assaults provided by St. Louis Metropolitan Police Dept.

Patterns of Juvenile Gun Acquisition and Use

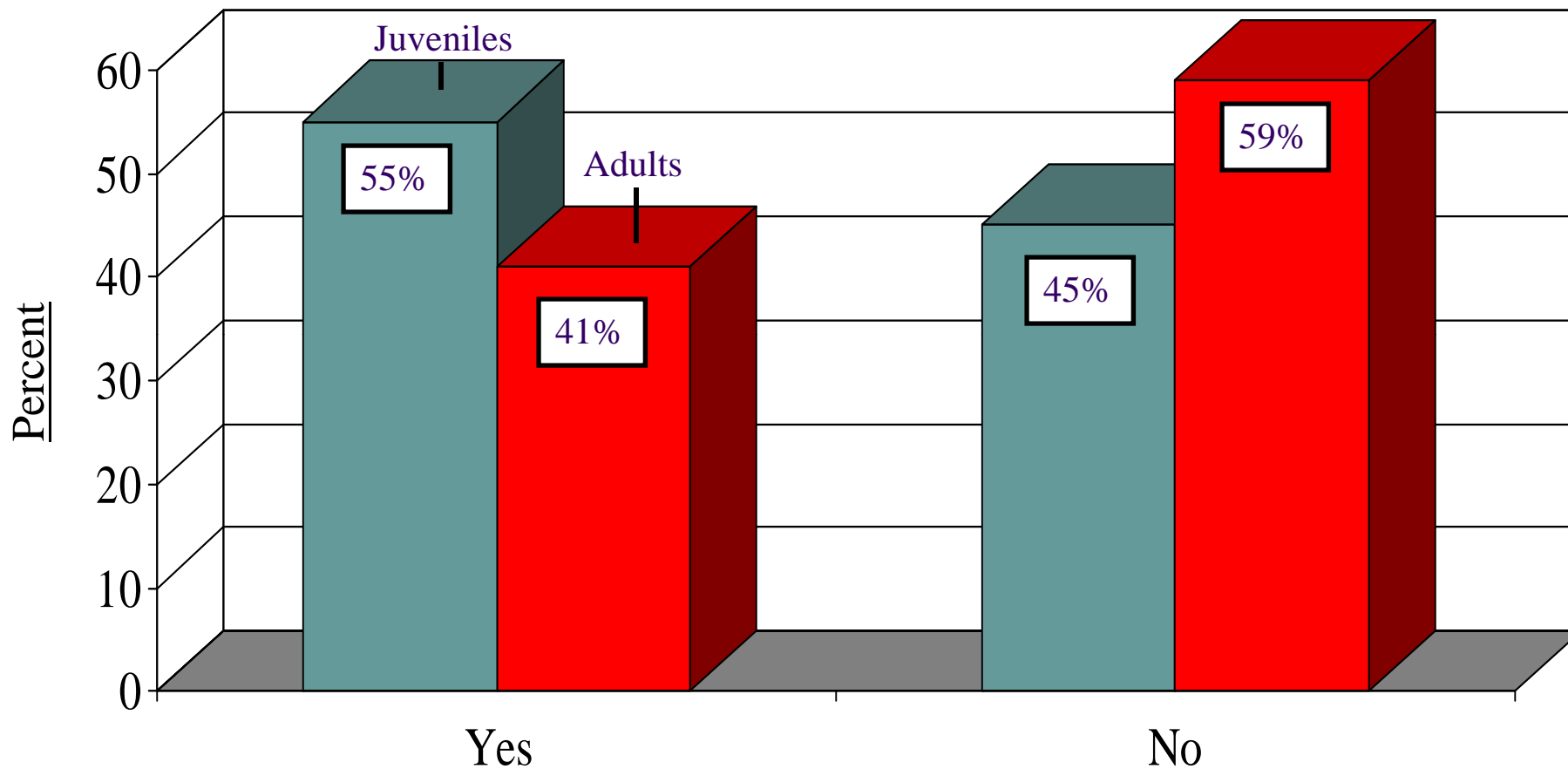
Evidence from Offender Interviews



Have you acquired a gun within the previous year?

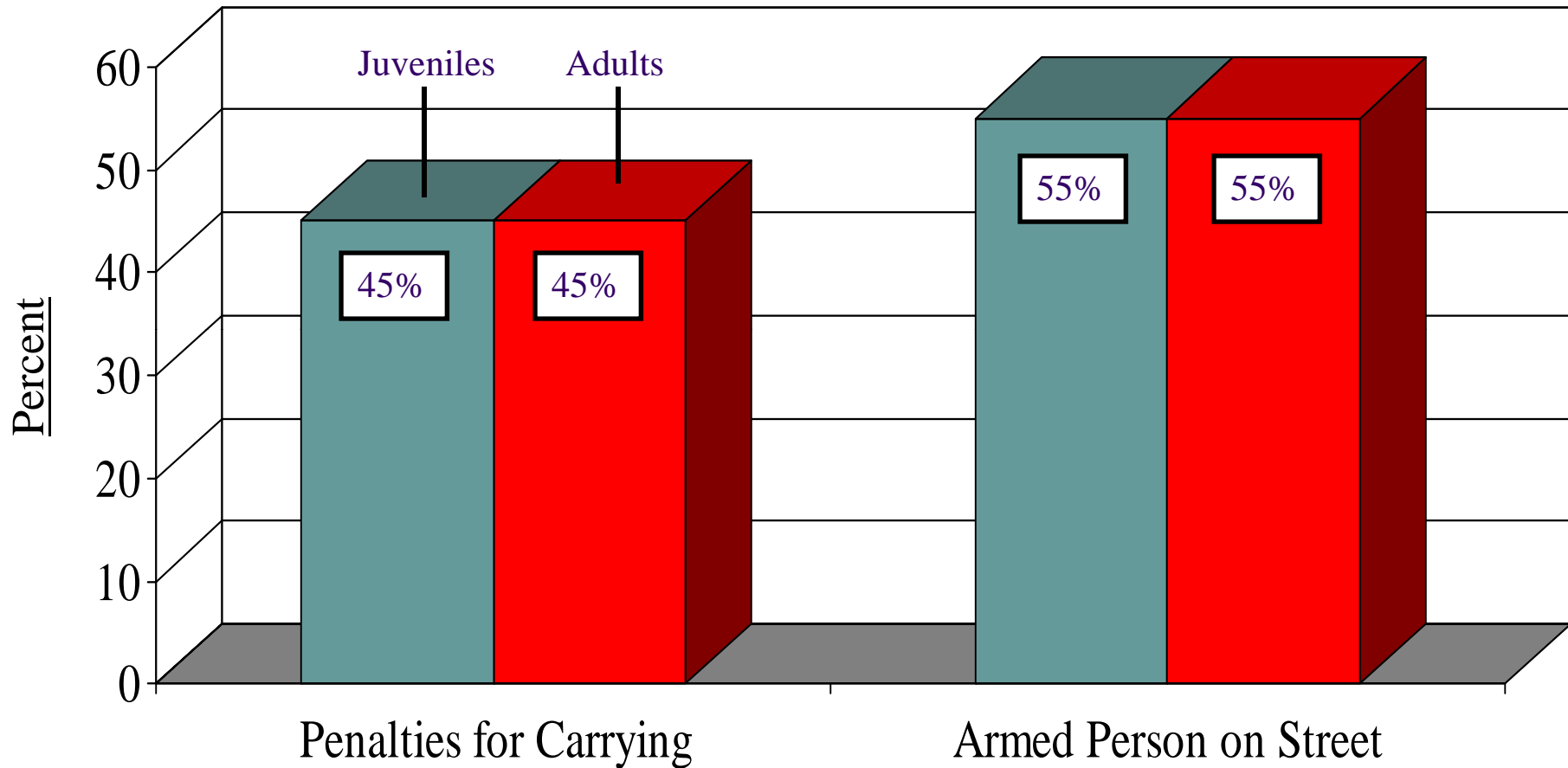


Have you fired this gun in the last year?



* Percentages were calculated based on respondents who reported acquiring a gun within the previous year.

Most important consideration in deciding to carry a gun?

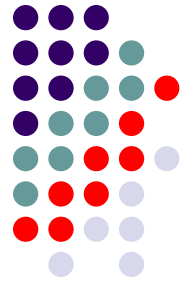


* Percentages were calculated based on respondents who reported acquiring a gun within the previous year.

Determinants of Gun Use – Gun Owners Only

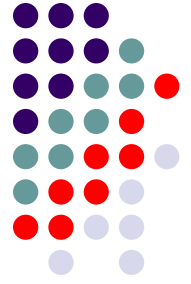
	Juveniles (n=202)			Adults (n=409)		
	<u>B</u>	<u>s.e.</u>	<u>Odds</u>	<u>B</u>	<u>s.e.</u>	<u>Odds</u>
Gang membership	1.42***	.37	4.15	.48†	.28	1.61
Personal offense	-.20	.33		.63†	.36	1.87
<i>Perceptual Measures</i>						
Increased gun use	.49	.32		.10	.29	
Crime gun prevalence	-.20	.32		.40	.27	
Access to guns	.00	.40		.66*	.35	1.93
Fear of the street	-.10	.31		.70**	.27	2.02
Increased risk of arrest	.13	.31		-.59*	.28	.56

Key Findings



- Gun assault is the most clustered violent crime in St. Louis.
- Gang membership is also significantly clustered in certain neighborhoods in the city.
- A focus on gangs will pay dividends for reducing gun assaults.
- The gun assault problem is affected most by concentrations of gang membership and disadvantage
- Where you live and who you live by determines neighborhood levels of gun assault.
 - “Know thy neighbor.”

Future Directions – Policy Implications



- Maintain a focus on neighborhoods with large concentrations of violent crime and gang members
 - Wells Goodfellow Parole-Police Partnership
 - Probation Notification Meetings
 - Gang CPR Program
 - Targeted Prosecution
- Early Intervention
 - Weed and Seed
 - GREAT Program
 - Fundamental issues of poverty, disadvantage