# Journal Articles

Akins, S. (2003). Racial segregation and property crime: Examining the mediating effect of police strength. *Justice Quarterly,* *20*(4), 675-695. doi:10.1080/07418820300095661

Examines the relationship between segregation and property crime, including the influence of police strength. Limited to the year 1990. Authors conclude that segregation is significantly and positively associated with larceny, burglary and motor vehicle theft. Police strength apparently does serve to mediate this association.

Cahill, M. E. (2004). Geographies of Urban Crime in Nashville, Tennessee, Portland, Oregon, and Tucson, Arizona, 1998-2002. *ICPSR Data Holdings*. doi:10.3886/icpsr04547

This dissertation actually includes three papers, each examining crime across the three urban areas listed in the title. The author attempts to incorporate demographic information and geographic information to explore and explain crime in a unique way. The importance of taking local context into account is an important factor.

Cahill, M. E., & Mulligan, G. F. (2003). The Determinants of Crime in Tucson, Arizona1. *Urban Geography,* *24*(7), 582-610. doi:10.2747/0272-3638.24.7.582

Study computes three different crime indices, some more comprehensive than others. These are used in conjunction with demographic data from the US Census 1990 to determine which factors might be correlated with crime in this particular city. The authors suggest a general model of violent crime for the study region; this model explains the geography of violent crimes in the study region.

Cahill, M., & Mulligan, G. (2007). Using Geographically Weighted Regression to Explore Local Crime Patterns. *Social Science Computer Review,* *25*(2), 174-193. doi:10.1177/0894439307298925

This journal article looks at violent crime in Portland, Oregon. It establishes crime rates and certain factors that covary with crime, but also attempts to link geography with crime. It is only recently that researchers have had the methods and ability to do the complex calculations that allow space to be taken into account in the same way that other factors that affect crime are. The methods are interesting; some good ideas for how to map data to neighborhoods are made clear.

Gould, E. D., Weinberg, B. A., & Mustard, D. B. (2002). Crime Rates and Local Labor Market Opportunities in the United States: 1979-1997. *SSRN Electronic Journal,* *84*(1), 45-61. doi:10.2139/ssrn.121969

The authors examine data regarding crime rates and economic opportunity during the 1980s and 1990s. The labor market fell in the first decade and improved in the second; crime rates saw a reversed trend. The paper argues for a causal relationship between the two, since most crime is committed by young, unskilled men, who were also most affected by the difficult job market. They conclude that both wages and unemployment contribute significantly to crime; wages play a larger role than unemployment.

Johnson, C. (2016, September 19). Study: Violent Crime And Murders Slightly On The Rise This Year In Largest Cities. Retrieved March 30, 2017, from http://www.npr.org/2016/09/19/494293952/study-violent-crime-and-murders-slightly-on-the-rise-this-year-in-largest-cities

The article cites an examination of crime rates in the nation’s 30 largest cities. Overall, crime has been on a downward trend, and is near historic lows in many places. Some places, however, are predicted to experience more violence in 2017, based on trends from 2015 and 2016. The article serves to illuminate factual information about crime rates when public perception may be distorted by claims from political sources.

Mullins, C. W., & Cherbonneau, M. G. (2011). Establishing Connections: Gender, Motor Vehicle Theft, and Disposal Networks. *Justice Quarterly,* *28*(2), 278-302. doi:10.1080/07418825.2010.499877

Journal article about how females and males in St. Louis enter into and navigate the motor vehicle theft world, from stealing cars to having them dismantled for sale, etc. Male-dominated gateways ensure that females do things similarly to males. Interesting information to include with a map or histogram.

O’Flaherty, B., & Sethi, R. (2007). Crime and segregation. *Journal of Economic Behavior & Organization,* *64*(3-4), 391-405. doi:10.1016/j.jebo.2006.07.005

The authors argue that higher robbery rates and racial segregation in urban areas are closely connected. “Robberies typically involve incomplete information about the likelihood of victim resistance and offender violence.” They argue that higher crime in certain areas motivates white people to move to safer areas, and that conditional to income, black people tend to live in more dangerous areas than white people.

Pyrooz, D. C., Decker, S. H., Wolfe, S. E., & Shjarback, J. A. (2016). Was there a Ferguson Effect on crime rates in large U.S. cities? *Journal of Criminal Justice,* *46*, 1-8. doi:10.1016/j.jcrimjus.2016.01.001

The authors conducted statistical analysis on crime data from several large US cities to examine the claims of a “Ferguson Effect,” wherein crime rates spiked after events in Ferguson, Missouri. In aggregate, no such effect was observed. In disaggregate, some cities did see an increase in certain criminal activity, while other continued the decline that had been in effect previous to Ferguson.

# Other Resources

Convert latitude/longitude to state plane coordinates. (n.d.). Retrieved April 12, 2017, from https://stackoverflow.com/questions/18706369/convert-latitude-longitude-to-state-plane-coordinates/27414968#27414968

Lifesaver question on stackoverflow on converting between State Plane Coordinates and Latitude/Longitude. This was essential, as the crime data available was listed in State Plane, but this is difficult to plot on a standard Lat/Long map, such as the ones provided by Google Maps.

Crossman, A. (2017, March 2). What Are the Different Types of Crime? Retrieved April 02, 2017, from https://www.thoughtco.com/types-of-crimes-3026270

Broad description of different categories of crime (organized, victimless, property, etc.) Also included are some thoughts on racial and economic issues around crime: do some minorities commit more crime, or are they arrested for criminal activity more frequently?

D. Kahle and H. Wickham. ggmap: Spatial Visualization with ggplot2. The R Journal, 5(1), 144-161. URL http://journal.r-project.org/archive/2013-1/kahle-wickham.pdf

This citation refers to the use of the ggmap package in R, which is used for producing map images in several places in the project. Citation provided in format preferred by author.

Databases, Tables & Calculators by Subject. (n.d.). Retrieved April 13, 2017, from https://data.bls.gov/pdq/SurveyOutputServlet

Bureau of Labor Statistics source for unemployment information.

Series Id: LAUMT413890000000003,LAUMT413890000000004,LAUMT413890000000005,LAUMT413890000000006

Not Seasonally Adjusted

Area: Portland-Vancouver-Hillsboro, OR-WA Metropolitan Statistical Area

Area Type:Metropolitan areas

State/Region/Division: Oregon

Datasets. (n.d.). Retrieved March 28, 2017, from http://www.civicapps.org/datasets

Resource for open data for the city of Portland, Oregon. There are several data sets available, including datasets giving information related to crime for the years 2004-2014.

Earth Point Tools for Google Earth. (n.d.). Retrieved April 11, 2017, from http://www.earthpoint.us/StatePlane.aspx

Resource for converting State Plane coordinates to latitude/longitude. Necessary for constructing maps used on several graphics.

FBI Releases Crime Statistics for Oregon and Washington. (2013, September 16). Retrieved April 02, 2017, from https://archives.fbi.gov/archives/portland/press-releases/2013/fbi-releases-crime-statistics-for-oregon-and-washington

Reveals a nationwide crime increase of 0.7% in 2012 over 2011. Portland homicide rate is 20 per year; property crimes increased during this time period. More recent and older data may be available if needed.

Gentrification and Displacement Study . (n.d.). Retrieved April 02, 2017, from https://www.portlandoregon.gov/bps/62635

Links to information regarding gentrification in Portland, and how neighborhoods are marked as at risk for gentrification. Possible relationship to crime rates?

Hadley Wickham (2017). tidyverse: Easily Install and Load 'Tidyverse' Packages. R package version 1.1.1. https://CRAN.R-project.org/package=tidyverse

This citation refers to the use of the tidyverse package in R, which is used for importing, munging, and visualizing data in the project. Citation provided in format preferred by author.

Higher Crime Rate Linked To Low Wages And Unemployment, Study Finds. (n.d.). Retrieved March 29, 2017, from http://researchnews.osu.edu/archive/crimwage.htm

This report is regarding a study conducted on crime rates between 1979 and 1997, which indicated that low economic status and high unemployment is statistically significant in predicting crime rates: the tougher the labor market is, the more crime is seen (especially property crime). Other crimes, such as murder and rape (usually not associated with an economic motive), did not see an increase. Overall, wages had a stronger impact than unemployment. These findings were applicable to men with no college education; men with a college education were not found to be affected by these trends.

Korn, P. (2013, October 31). The Rose City's homicide drought. Retrieved April 02, 2017, from http://portlandtribune.com/pt/9-news/199302-the-rose-citys-homicide-drought

Author points out that Portland is an outlier in regards to homicide rates. In 2013 it was among the lowest of other cities of similar size. This might be attributed to low poverty rates, or high numbers of foreign-born residents. Some speculate that it might be due to quality hospitals in the area. Are assault rates and attempted murders similar to other cities? Some interesting reading for further insights into Portland-specific issues.

Portland, Oregon Population History 1890 - 2015. (n.d.). Retrieved April 13, 2017, from https://www.biggestuscities.com/city/portland-oregon

Provides a list of population levels from 1890 – 2015. Decade-level information is available until 2000, then information by year is recorded. Of interest are the 2004-2014 numbers.

Portland State Criminal Justice Policy Research Institute: Portland Crime Data | Welcome. (n.d.). Retrieved April 02, 2017, from https://www.pdx.edu/crime-data/

Webpage with links to interesting studies and datasets regarding crime in Portland, done through Portland State University’s Criminal Justice Policy Research Institute.

The City of Portland, Oregon. (n.d.). 2010 Census Data for Portland Neighborhoods. Retrieved April 16, 2017, from https://www.portlandoregon.gov/oni/56897

Link for Excel file with demographic data for various Portland neighborhoods. Use for segregation analysis.

Shoener, N. (2017, March 21). What Are the Different Types of Crimes? Retrieved April 02, 2017, from http://www.legalmatch.com/law-library/article/what-are-the-different-types-of-crimes.html

A handy list of the subcategories of crime, including definitions of each: larceny, robbery, burglary, assault, aggravated assault, etc.

US Bureau of Labor Statistics (2012, February). The Recession of 2007 - 2009. Retrieved April 13, 2017, from https://www.bls.gov/spotlight/2012/recession/pdf/recession\_bls\_spotlight.pdf

Article published by the BLS regarding the Recession of 2007 – 2009. Interesting correlations between unemployment and crime are a possibility.

US Census Bureau. Population estimates, July 1, 2015. Retrieved April 16, 2017, from https://www.census.gov/quickfacts/table/PST045215/4159000

Figures and population statistics regarding poverty (and many other areas of interest), for many cities in the United States.