

Saturation of Registered Sex Offenders in Portland Neighborhoods

-An analysis of Sex Offenders, Kids and Schools



GIS 492

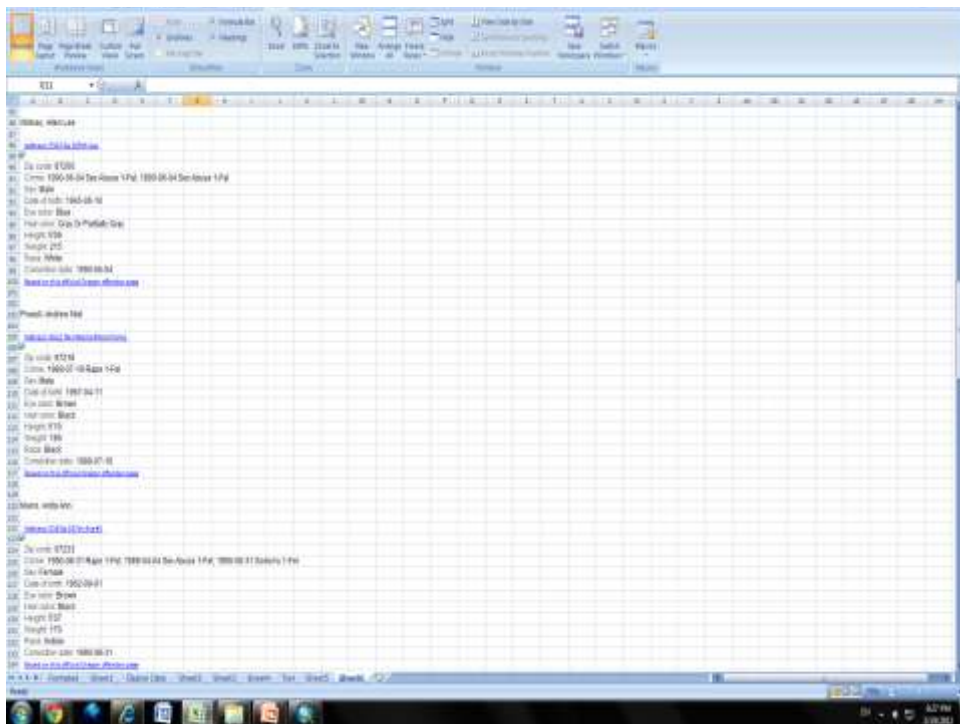
3/20/2012

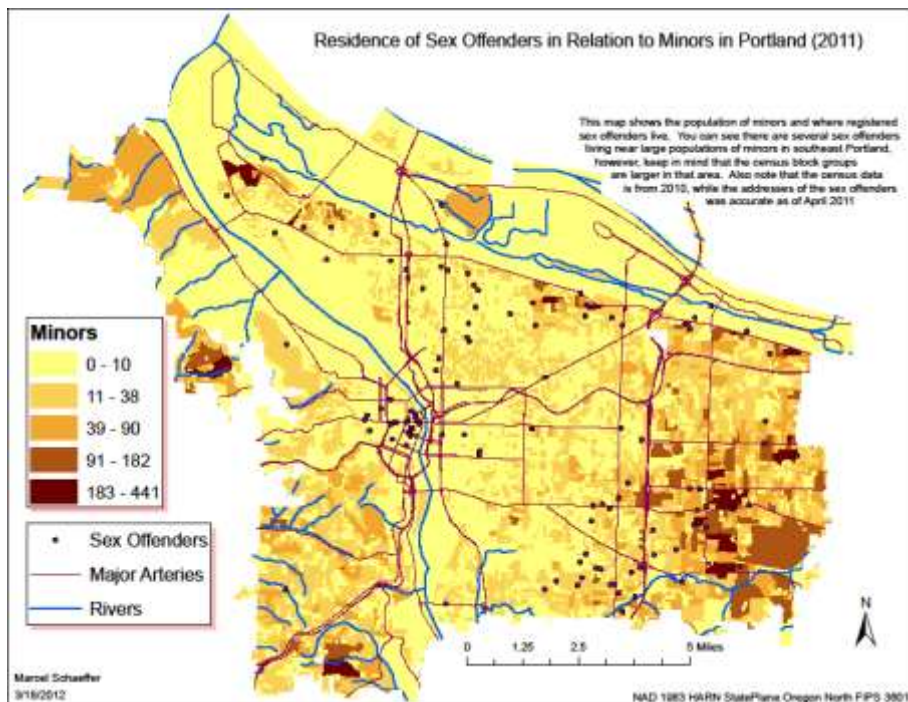
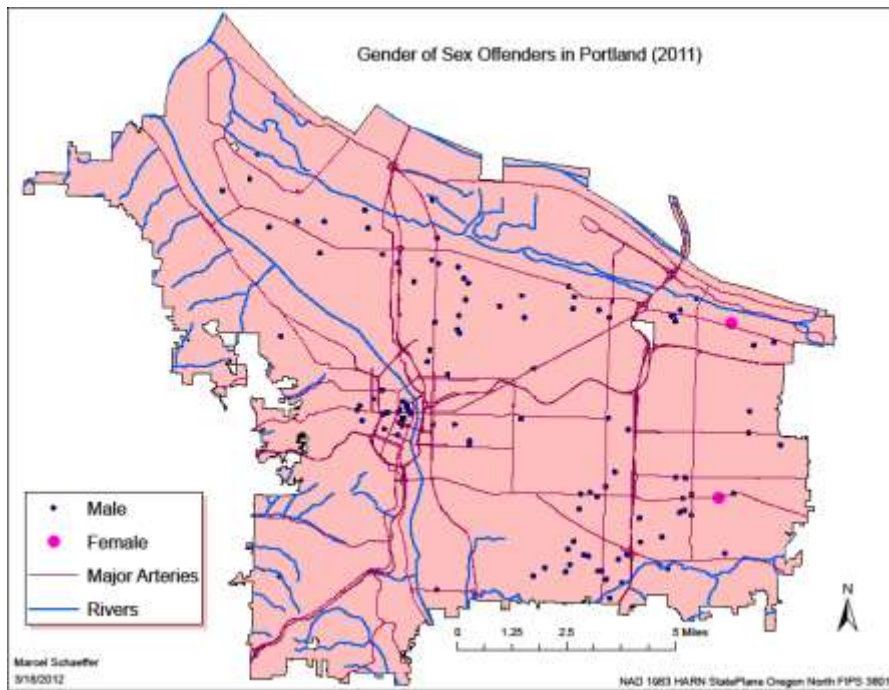
by Marcel Schaeffer

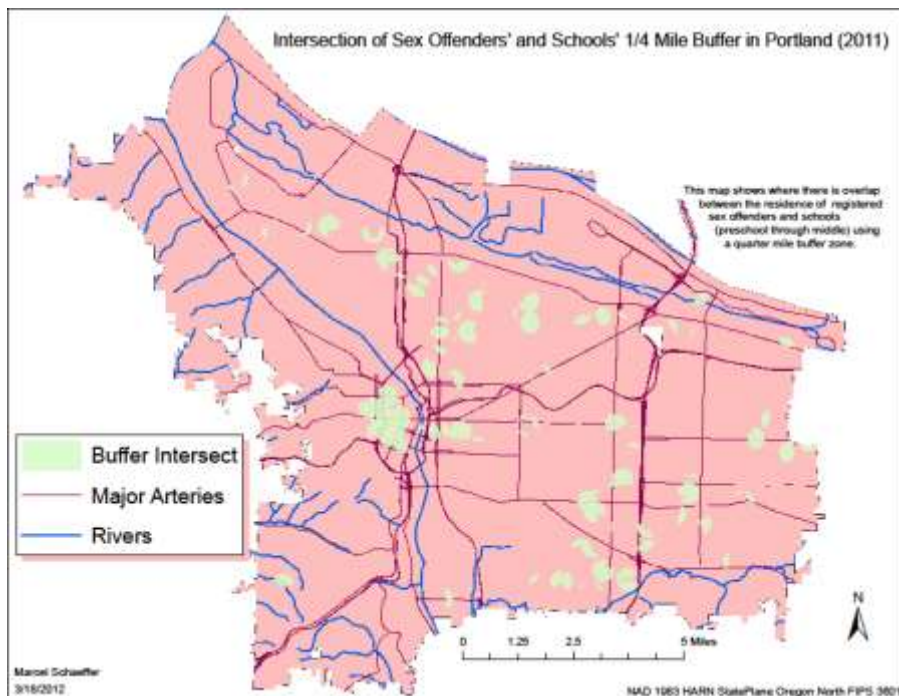
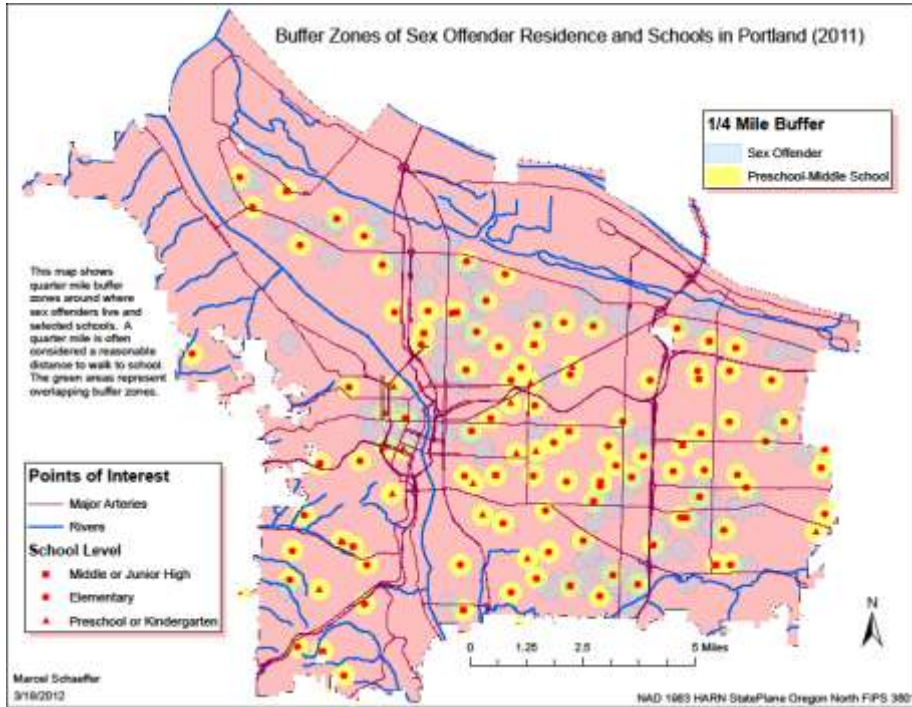
Goals from Proposal

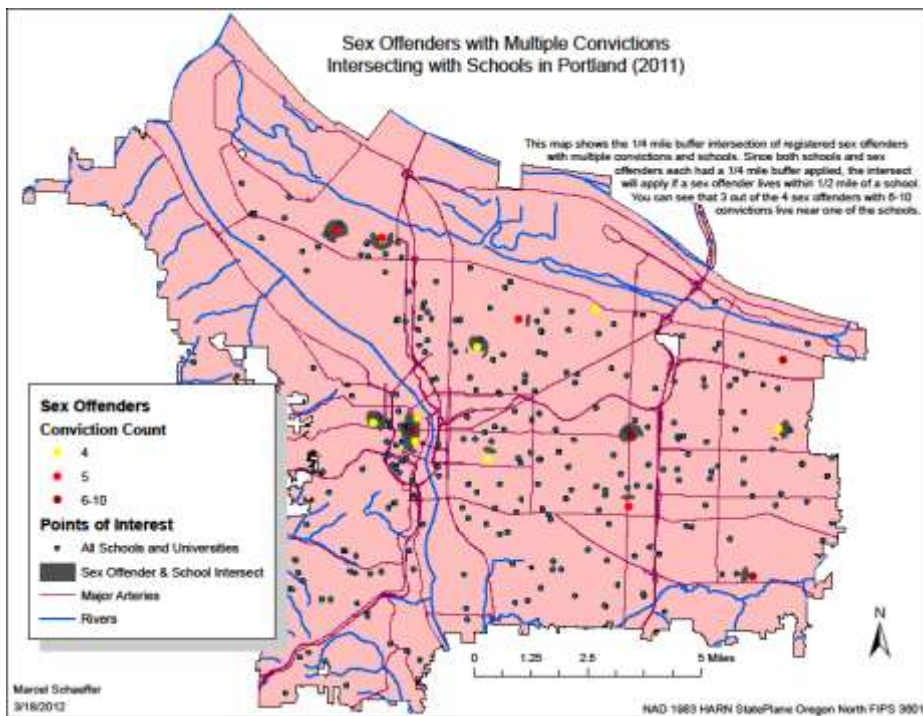
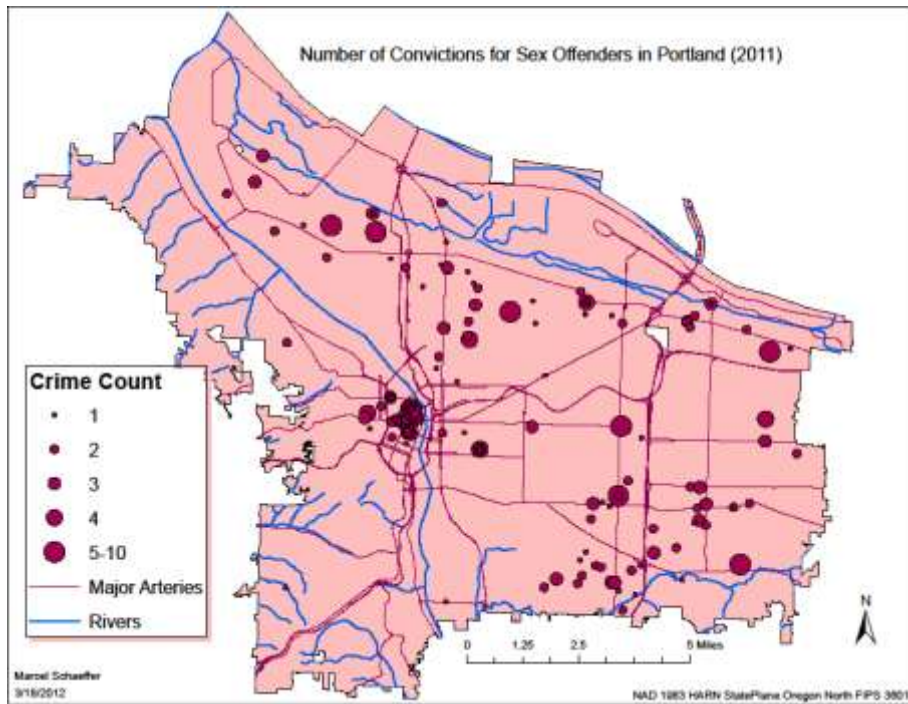
- To do a spatial analysis of neighborhoods in Portland in order to identify which areas have relatively high rates of sex offenders per capita.
- To identify which neighborhoods have the highest rates of sex offenders per minor (persons under 18 years of age).
- To discover which public schools have the most sex offenders in close proximity.
- To discover which areas might have a higher likelihood of sex offenders committing future crimes.
- To see if there is a correlation between where sex offenders reside and median income of the neighborhood.

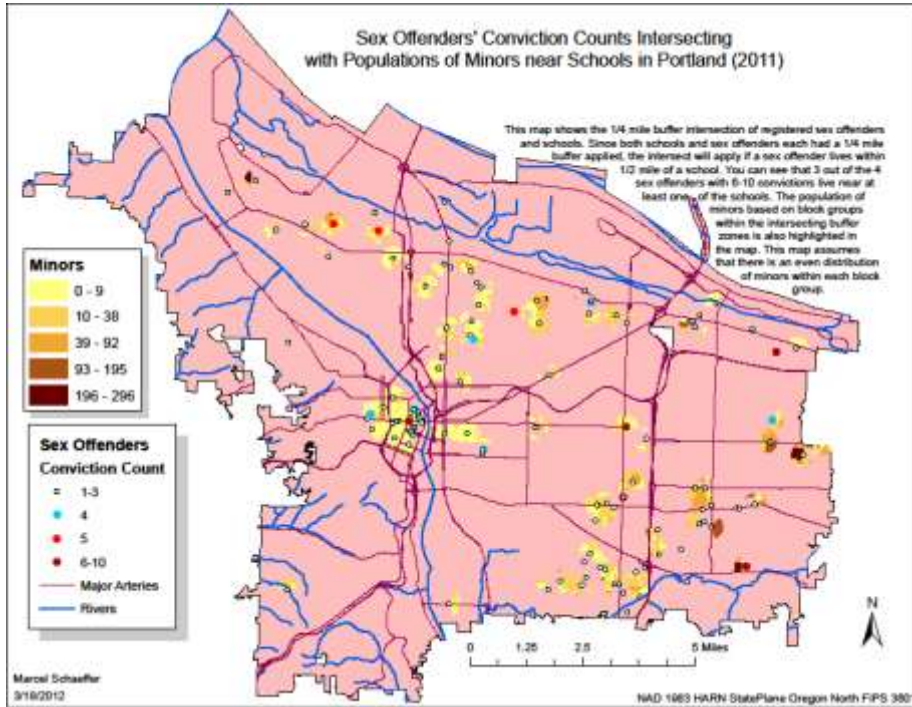
- Geocoding
- Buffer
- Intersect
- Clip
- Lots of Excel



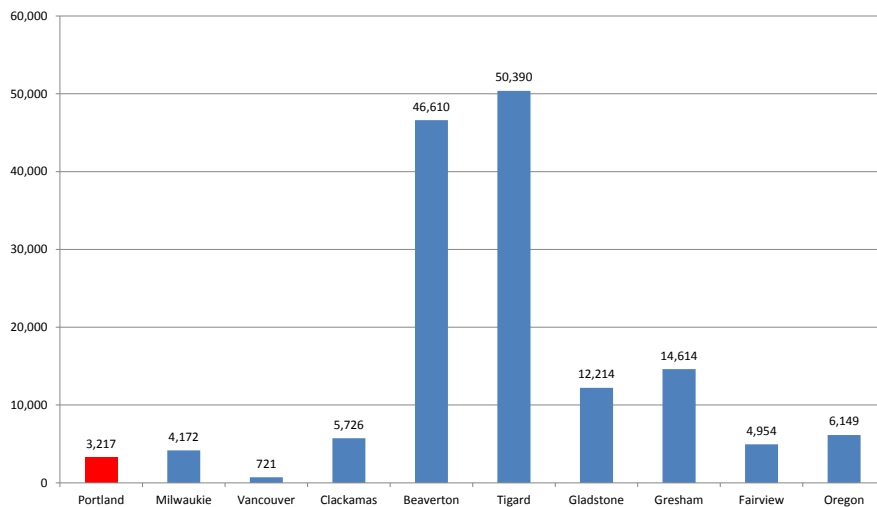








Number of People per Sex Offender (2011)



Recap of Goals from Proposal

- To do a spatial analysis of neighborhoods in Portland in order to identify which areas have relatively high rates of sex offenders per capita.
- To identify which neighborhoods have the highest rates of sex offenders per minor (persons under 18 years of age).
- To discover which public schools have the most sex offenders in close proximity.
- To discover which areas might have a higher likelihood of sex offenders committing future crimes.
- To see if there is a correlation between where sex offenders reside and median income of the neighborhood.

What I did Accomplish

- Described relationship of sex offenders and schools
- Described relationship of sex offenders and minors
- Described the relationship of sex offenders with multiple convictions and minors
- Described the relationship of sex offenders with multiple convictions and schools

Assumptions

- Distribution of population was even throughout census block groups
- Sex offenders did not relocate after August 2011
- No newly listed sex offenders between May 2011 – March 2012
- 2010 Census data is accurate as of 2012
- The population of minors in Portland did not change from 2010 to 2012

Resources

- RLIS (via I:drive)
- USC GIS Research Laboratory
- Oregon Geospatial Enterprise Office (GEO)
- city-data.com
- Oregon Sex Offender Inquiry System