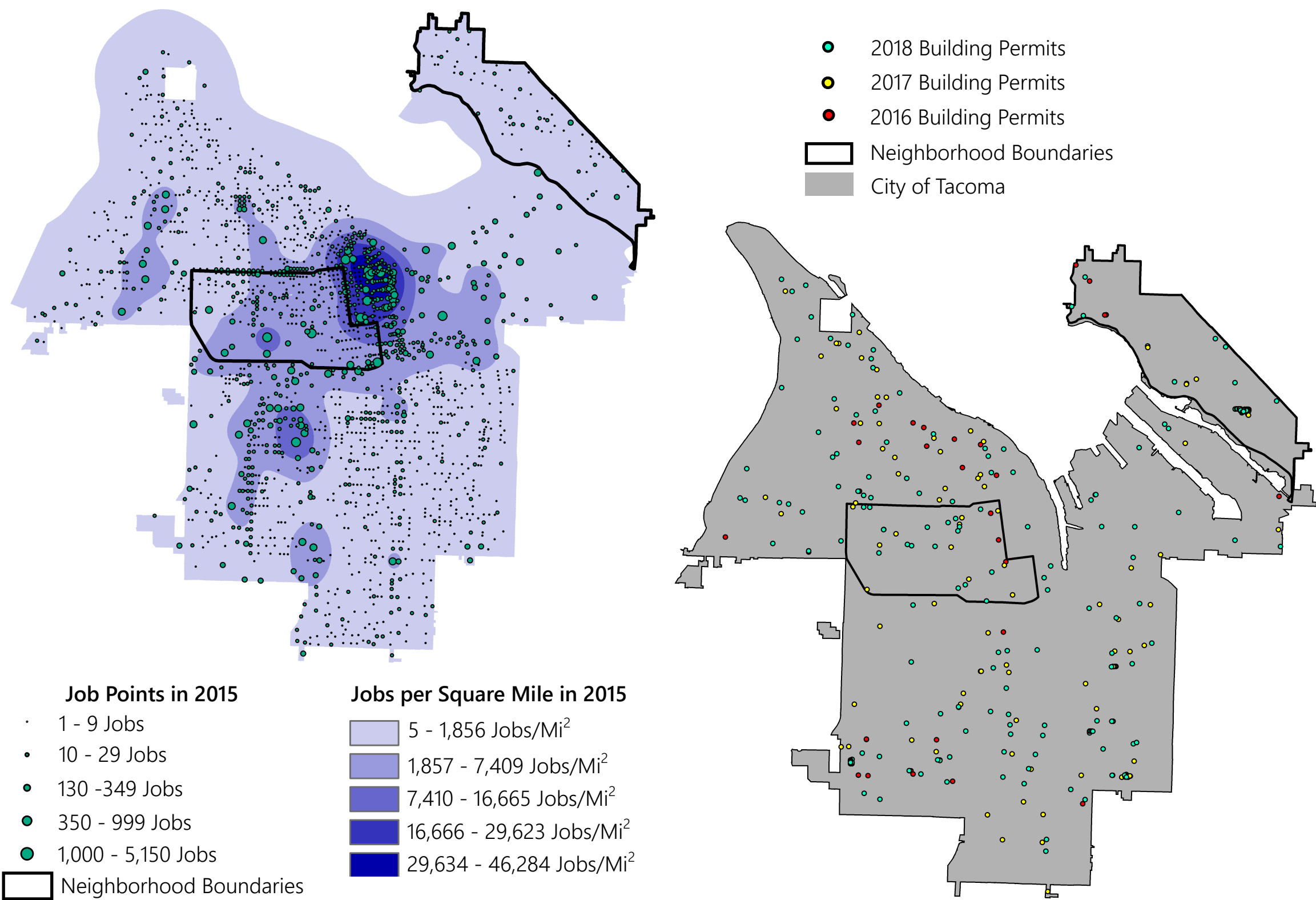


Comparison Between Central and Northeast Tacoma

Purpose

The purpose is to show how two neighborhoods and the city changed during the recovery of the Great Recession by studying some common variables that determine home values. The variables are percentage of residences that are owner-occupied, job per resident, building permit density, drive time to the central business district, percentage of roads that are high-traffic, and the percentage of area that are parks and open space. The timeframe studied is from 2012 to 2018, in the years where data is available for certain variables. I chose these two neighborhoods because the median home value of these two neighborhoods appreciated from 2012 to 2018 at opposite ends of the scale when comparing all eight Tacoma Neighborhood Council districts. Between 2012 and 2018, the median home value in Central Tacoma appreciated from \$142,600 in January 2012 to \$301,800 in December 2018. The median home value in Northeast Tacoma appreciated from \$242,200 in January 2012 to \$422,100 in December 2018. This is an 111.6% increase in Central Tacoma, the highest of all neighborhoods, and a 74.3% increase in Northeast Tacoma, the lowest of all neighborhoods, and the median home value for the whole city increased from \$157,200 to \$305,100 in the same time frame, an appreciation of 94.1%.



Location	Park and Open Space (acres)	Total Area (acres)	Percentage of Area Parks and Open Space
Northeast Tacoma	876	2,880	30%
Central Tacoma	392	2,441	16%
Tacoma	5,360	31,789	17%

Location	Average Drive Time to CBD (minutes)
Central Tacoma	3.275976
Northeast Tacoma	6.359172
City of Tacoma	8.008068

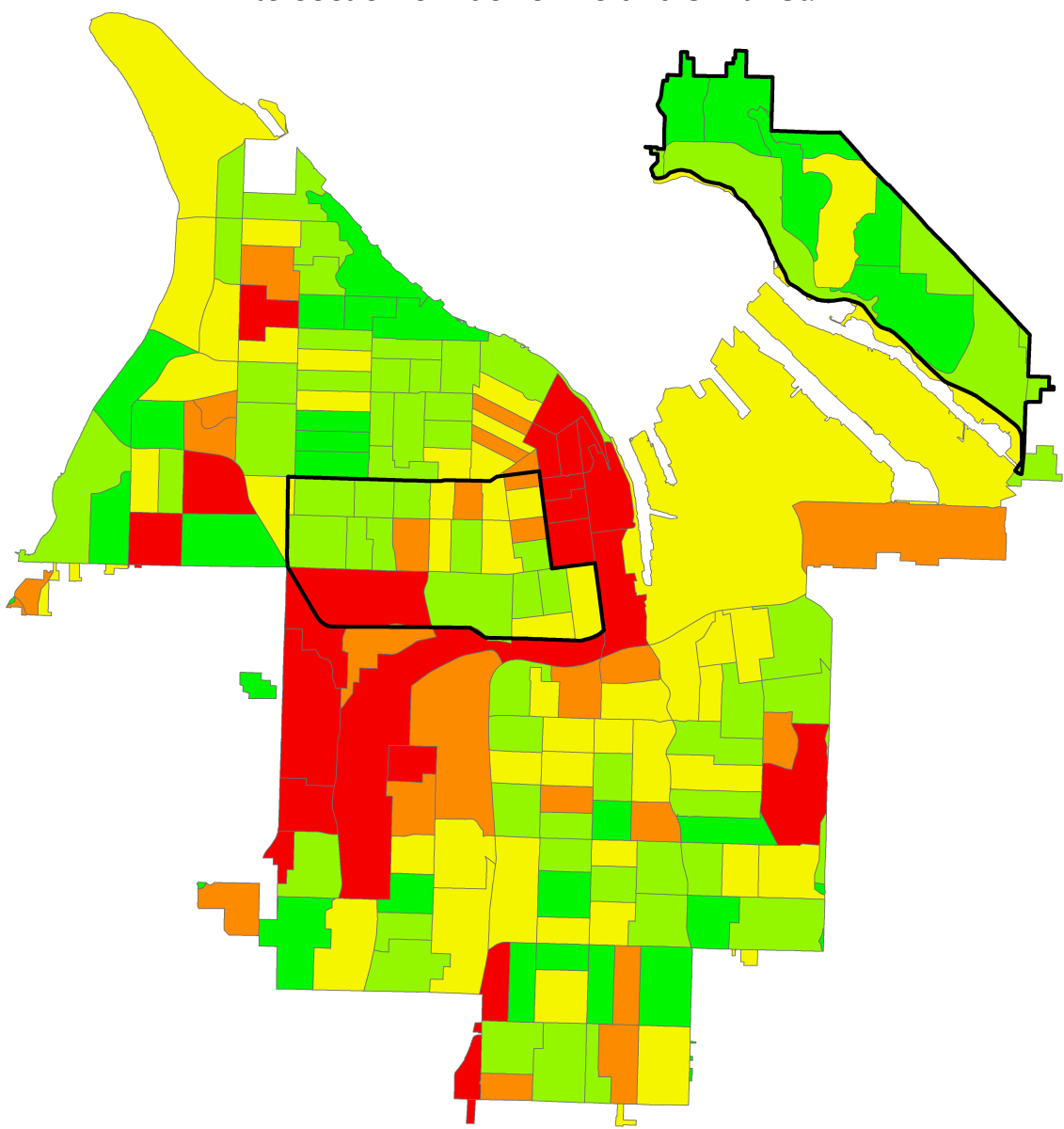
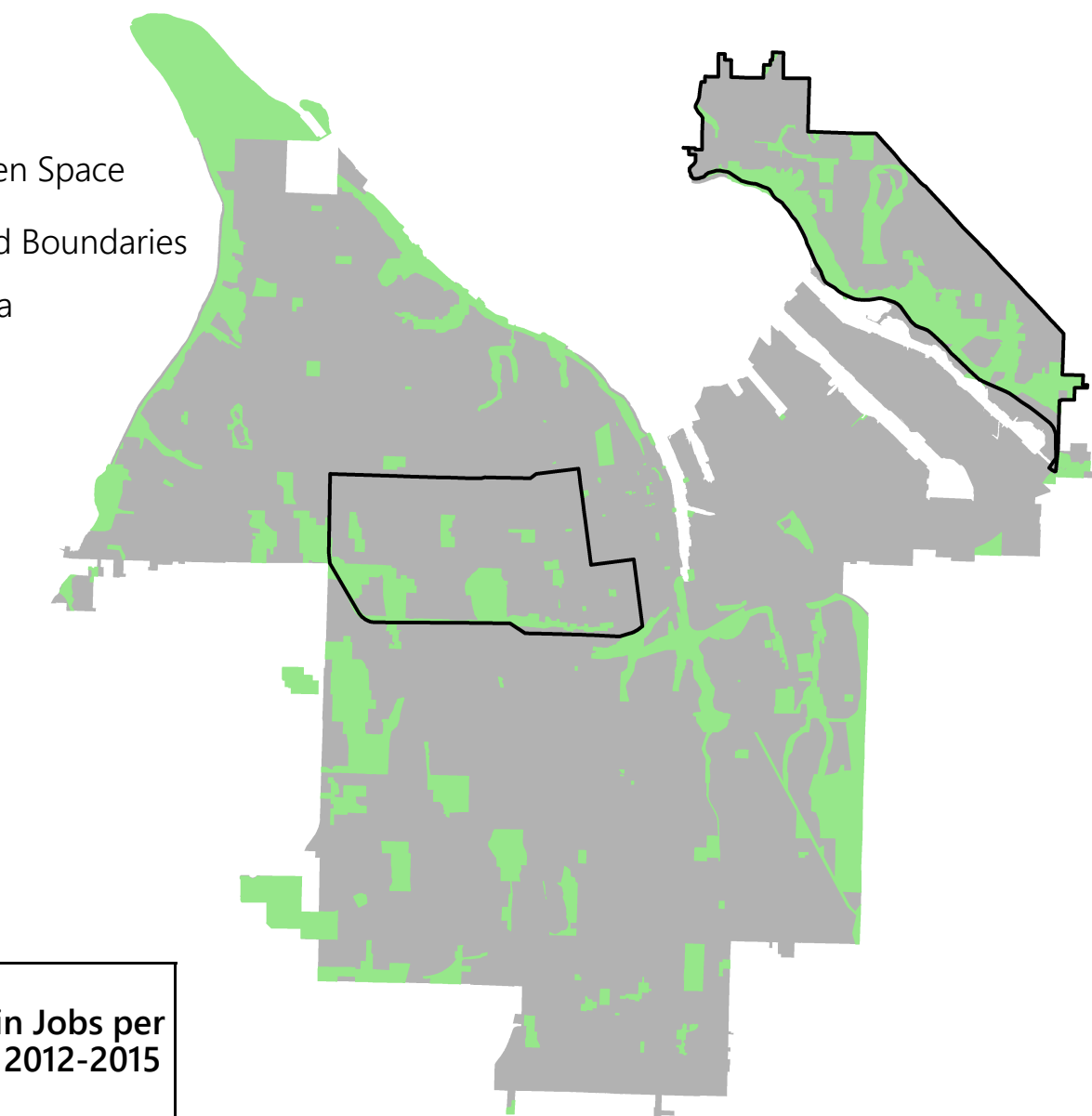
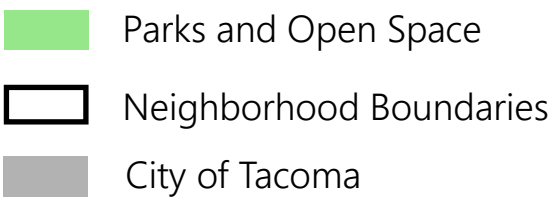
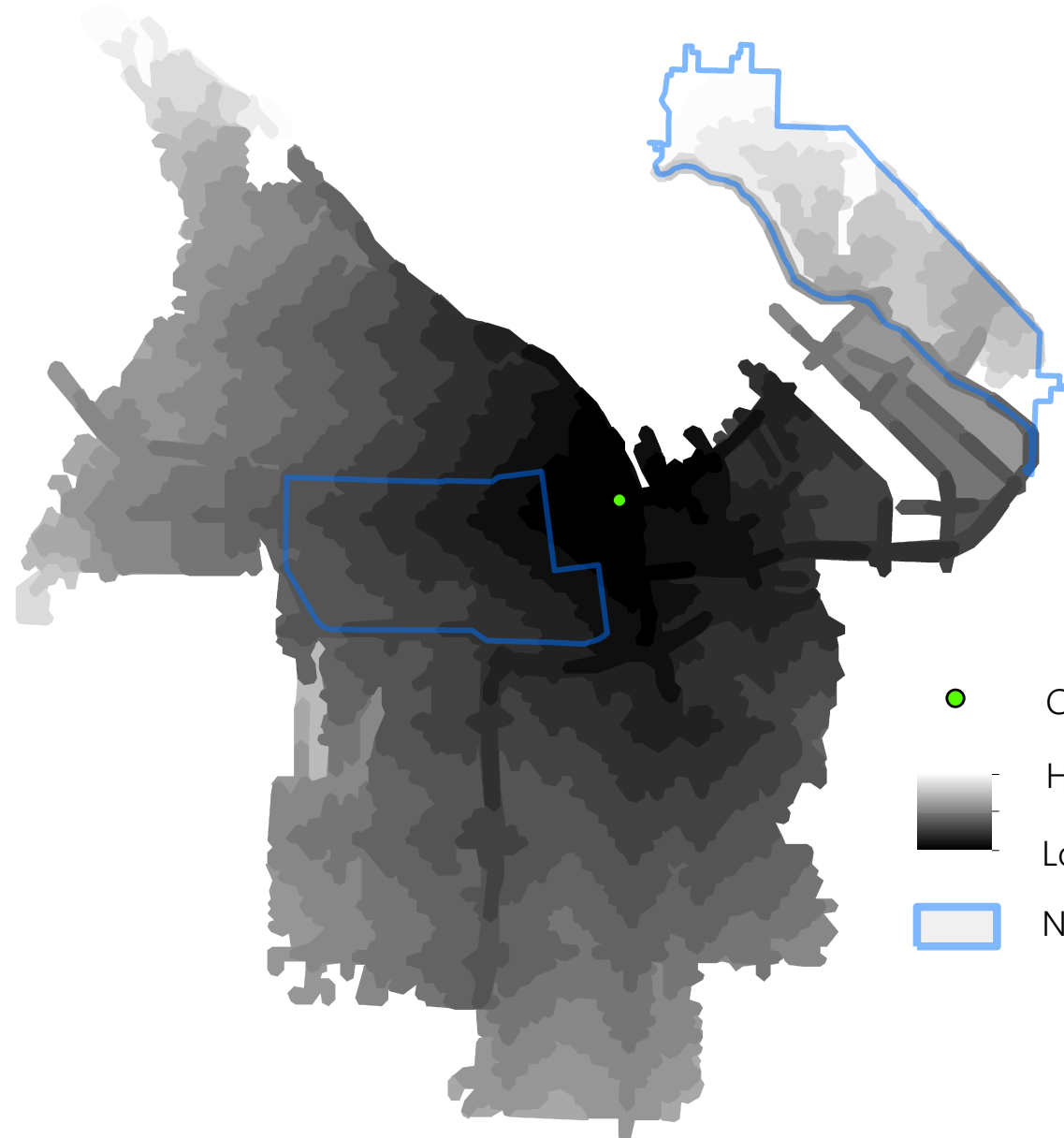
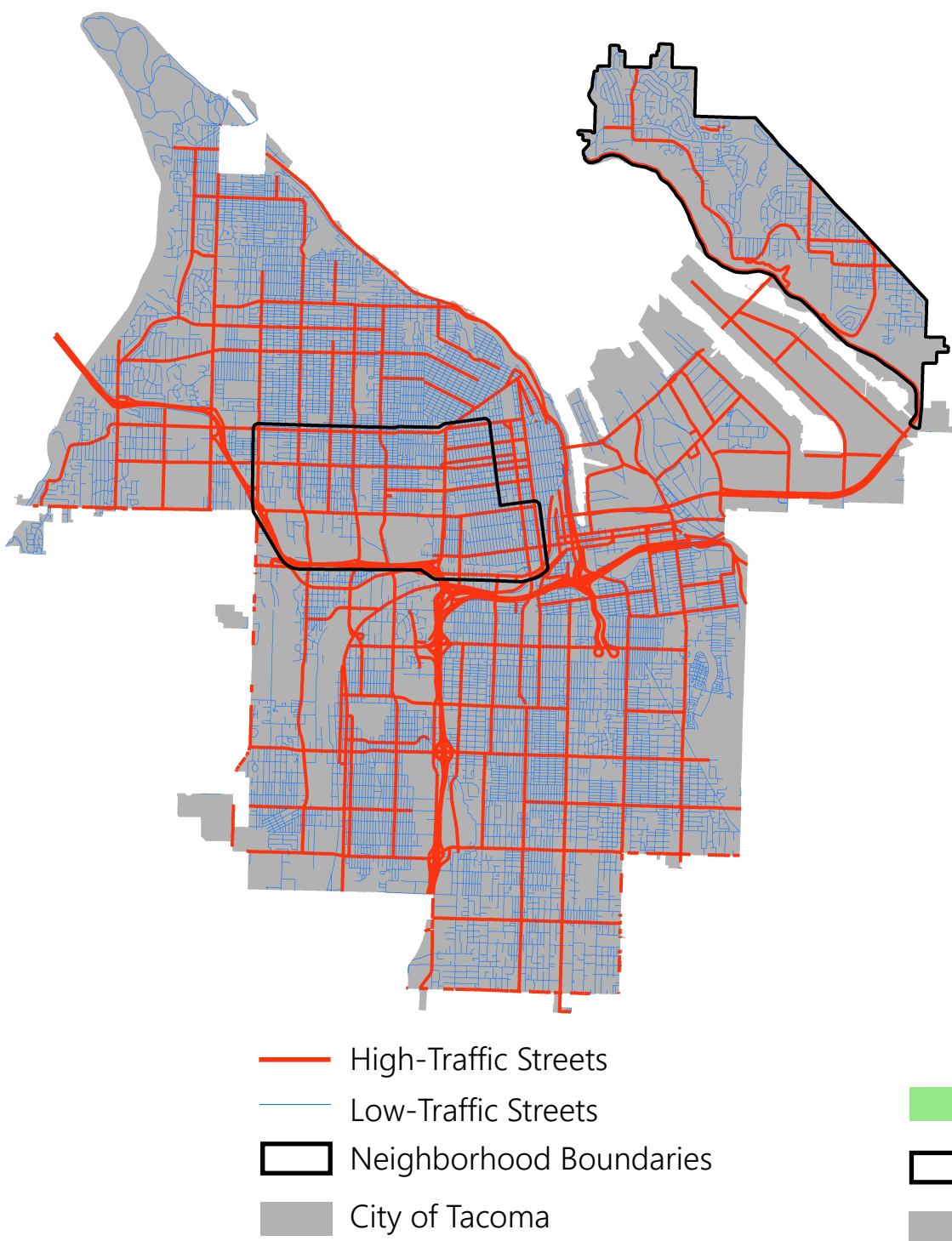
I did not have the results that I expected, Northeast Tacoma had more building permits per parcel, a much higher increase in jobs per person, and neither neighborhood had any significant change in percentage of owner-occupied residences. What I infer from my results is that despite having a smaller percentage of area being parks and a higher percentage of streets being high-traffic, the median home value in increased between 2012-2018 much higher in Central Tacoma than it did in Northeast Tacoma because amenities such as closeness to the central business district, and access to freeways increased in popularity in this time frame. These results can explain gentrification that is occurring in Tacoma, especially in Central neighborhood near Hilltop.

Location	2016 Building Permits	2017 Building Permits	2018 Building Permits	2016-2018 Building Permits	Total Parcels	Building Permits per Parcel 2016-2018
Northeast Tacoma	6	34	34	74	6,722	0.01101
Central Tacoma	4	13	21	38	7,850	0.00484
Tacoma	40	131	197	368	754,541	0.00049

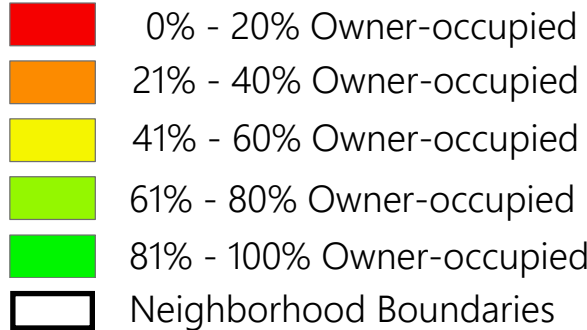
Location	Total Number of Owner Occupied Residences in 2013	Total Number of Residences in 2013	Total Number of Owner Occupied Residences in 2017	Total Number of Residences in 2017	Percentage Owner Occupied 2013	Percentage Owner Occupied 2017
Northeast Tacoma	5,759	7,517	5,835	7,597	76.6%	76.8%
Central Tacoma	4,147	9,255	4,263	9,614	44.8%	44.3%
City of Tacoma	40,486	78,681	41,311	82,016	51.5%	50.4%

Objective

My hypothesis was that in the period of 2012 to 2018, Central Tacoma would have more building permits per parcel, a higher increase in jobs per resident, and a significant increase in homeownership rates in comparison to Northeast Tacoma.



Percentage of Residences Owner-occupied in 2017



Results

Location	Jobs 2012	Population 2012	Jobs Per Resident 2012	Jobs 2015	Population 2015	Jobs Per Resident 2015	Increase in Jobs per Resident 2012-2015
Northeast Tacoma	932	20,523	0.0454	1,082	20,558	0.0526	16%
Central Tacoma	11,351	22,838	0.4970	2,797	23,834	0.5369	8%
City of Tacoma	99,388	200,013	0.4969	06,026	203,481	0.5211	5%

Location	Total Length of High-Traffic Streets (miles)	Total Length of All Streets (miles)	Percentage of Streets that are High Traffic
Central Tacoma	36	134	27%
Northeast Tacoma	14	72	19%
City of Tacoma	268	1,140	24%

Connor Wright
ArcMap 10.6.1
Projected Coordinate System: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet
Projection: Lambert Conformal Conic
Geographic Coordinate System: GCS North American 1983 HARN
Datum: D North American 1983 HARN
Zillow Home Value Index, <https://www.zillow.com/research/data/>
Pierce County Open GeoSpatial Data Portal, 2010 Census Block Groups
Pierce County Open GeoSpatial Data Portal, Pierce County Basemap
City of Tacoma, Permit Dashboard, <https://wspdsmap.cityoftacoma.org/webside/PDS/Permits/>
U.S. Census Bureau, 2013-2017 American Community Survey 5-Year Estimates
City of Tacoma, GeoHub Portal, Tacoma Neighborhood Council Data
OnTheMap Application
U.S. Census Bureau, (2019). LEHD Origin-Destination Employment Statistics (2002-2015) [computer file]. Washington, DC: U.S. Census Bureau
Longitudinal-Employer Household Dynamics Program (distributor), accessed on 1 April 2019 at <https://onthermap.ces.census.gov/> LODES 7.3 [version]