





Our community mapshop ends largely where it begins -- with a recognition that we, at the University of Kentucky, must do more to educate ourselves as to the conditions of our communities.

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Healthcare Accessibility for Cardinal Valley ResidentsCatherine Brown

Who Owns Woodhill? Cee Byrd

Social Vulnerability Scores
Alexa King

Disparities in Housing Affordability in Selected Areas of LexingtonCasey Lyons

Grocery Stores and Risk During COVID-19Chris Ortiz

Spatiotemporal changes of racial segregation from 2012 to 2018 Shishir Sarker



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Below: This map highlights the LexTran routes available which connect Cardinal Valley to the local hospitals which primary and emergent care

The map above addresses the estimated time for a Cardinal Valley resident to reach the UK Good Samaritan Hospital when utilizing public transit. Each zone was created by determining travel time from various properties, discerning trends, and then formulating groups which encompassed a standardized interval. This does not include specific data (i.e. particular length of walk to bus stops from each parcel) which plays a vital role in overall time for each specific resident. Rather than provide quantitative data with a particular solution in mind, this map seeks to serve as a broad explanation of a need. By relating the lack of vehicle ownership with the inherit use of public transit, it is clear health care is rather inaccessible for the residents of Cardinal Valley. Through this visualization one should conclude the neighborhood is need of more resources, or rather more efficient use of the resources already available.

Who owns Woodhill, Lexington, KY?

Cee Byrd University of Kentucky



Woodhill is a neighborhood in southeast Lexington, Kentucky, United States. Its boundaries are Richmond Road to the west, New Circle Road to the north, Palumbo Drive to the east, and Man o' War Boulevard to the south. Identified are the 3 block groups of the neighborhood.

How to identify gentrification:

Property is being bought and sold

Houses being sold for a profit or undergoing foreclosure.

▼"Real" coffee shops open nearby

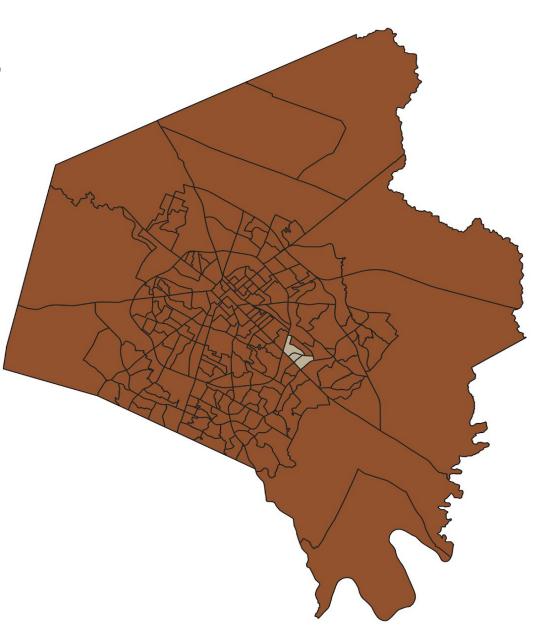
Common grounds, Starbucks, and Panera Bread Co.

▶ Household sizes decrease

Less families and more single-household millennials

Changing demographics and incomes

More affluence in a community means higher cost of living and rising rent prices.



Who owns Woodhill, Lexington, KY?

By block group

By parcel

0-68 0-1 211-234

1-2

344-506

2-3

506-728

5-9

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Lynnwood Ct is a cul de sac located in a block group that is experiencing the most property sales and is currently the whitest block group in the neighborhood.

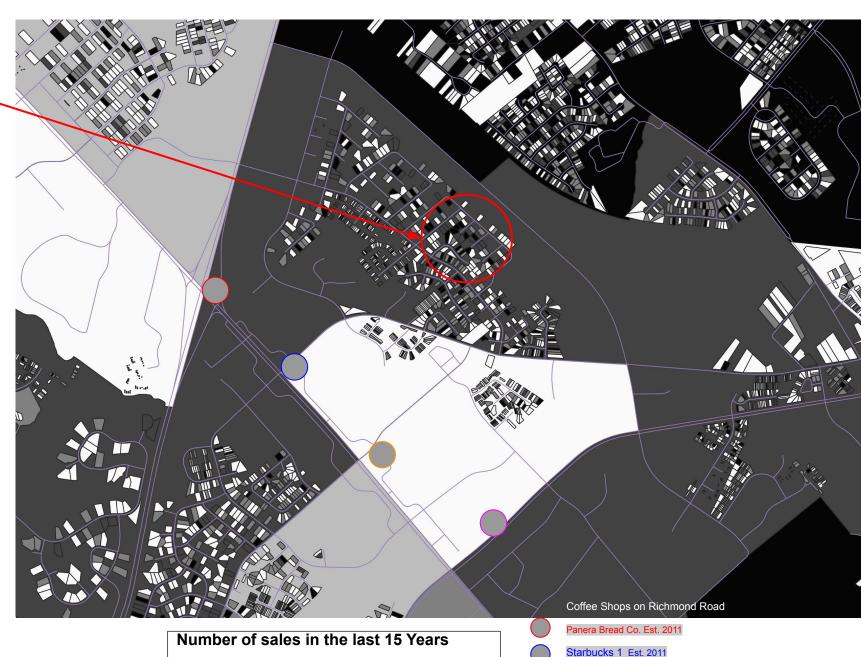
*395 Lynnwood Ct. Transferred 3 times \$47,500 in 1989 \$74,000 in 2015 \$26,500 increase

*391 Lynnwood Ct FORECLOSURE Transferred 7 times 2013 sold for \$57,000 (\$47.900 less than previous sale) 2014 sold for \$108,500 \$85,000 increase

*387 Lynnwood Ct. FORECLOSURE Transferred 9 times Sold \$36,200. 2016 sold for \$82,900 **\$46,700 increase**

*383 Lynnwood Ct.
Transferred 6 times
Sold for \$72,000 in 2005
Sold for \$95,000 in 2006
\$23,000 increase

*386 Lynnwood Ct. Transferred 6 times Sold for \$57,000 in 2012 Sold for \$75,000 in 2015 \$18,000 increase



Social Vulnerability Score

Fayette County, KY

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Part 1

The four indicators used in this study were chosen based on the themes of socioeconomic, minority, transportation, and household characteristics. These data sets combined create a quick look at the social vulnerability index score that neighborhoods at block group level based on a percentage range of least vulnerable and most vulnerable.

Four Indicators

- ▼ No Vehicle
- Minority Population (defined by Census)
- ▼ Below Poverty
- ▼ # of Households with children 18 yrs and younger

Top 10 Vulnerable Census Tracts, Block Groups

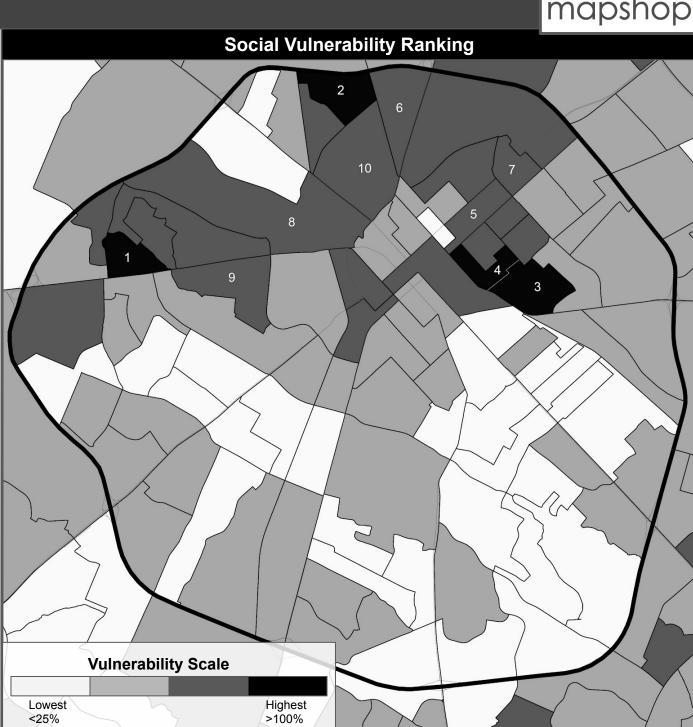
- 1. Census Tract 20.01, Block Group 1
- 2. Census Tract 11, Block Group 4
- 3. Census Tract 4, Block Group 2
- 4. Census Tract 3, Block Group 3
- 5. Census Tract 2, Block Group 1
- 6. Census Tract 11, Block Group 1
- 7. Census Tract 13, Block Group 2
- 8. Census Tract 10, Block Group 1
- Census Tract 19, Block Group 1
- 10. Census Tract 11, Block Group 2

Social Vulnerability Score

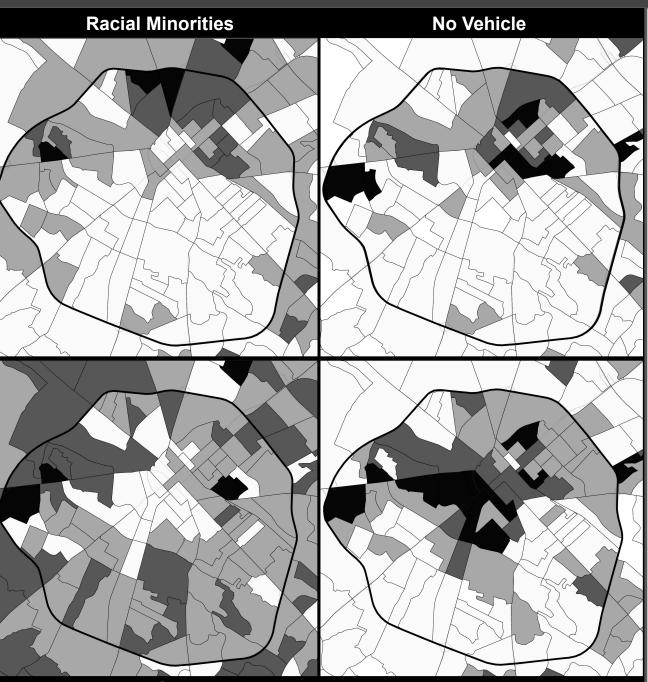
a = 1 A = lowest b = 100 B = highest x = sum of all normalized variables

V1 + V2 + V3 + V4 = XScore = 1 + (X - A) * (b - a) / (B - A)

Maps by: Alexa King







Part 2

To the left is a series of four choropleth maps that illustrate the degree of vulnerability of each indicator. The percentage of vulnerability is based on the normalized raw counts of each indicator in all block groups located in the interior of New Circle road.

Racial Minorities

- 1. Census Tract 11, Block Group 4-----85.8%
- Census Tract 11, Block Group 1-----77.8%
- 3. Census Tract 3, Block Group 1-----72%

No Vehicle

- Census Tract 2, Block Group 1-----87%
- Census Tract 1.01, Block Group 1-----80%
- 3. Census Tract 4, Block Group 4-----76%

Households w/ Children >18 yrs

- 1. Census Tract 20.01, Block Group 1--- 82.1%
- 2. Census Tract 4, Block Group 2----- 80.3%
- 3. Census Tract 10, Block Group 2----- 80.3%

Below Poverty Level

- 1. Census Tract 9, Block Group 2-----100%
- 2. Census Tract 9, Block Group 3----- 98%
- 3. Census Tract 8.01, Block Group 1---- 80.3%

Maps by: Alexa King

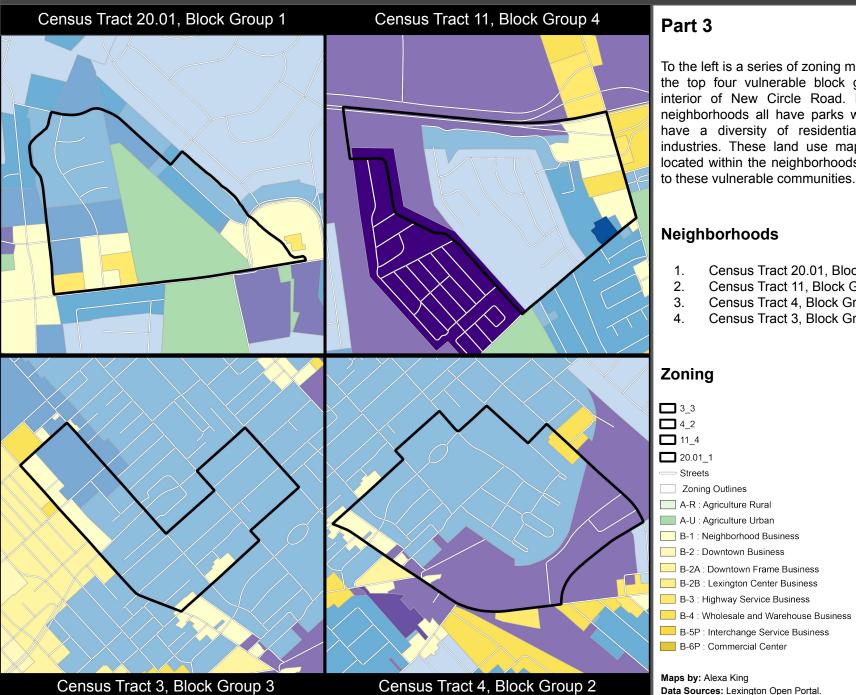
Data Sources: CDC, U.S. Census Bureau, Lexington Open Portal.

Tables: Overall Social Vulnerability: 4 variables. Household Characteristic: Households by Presence of People under 18 yrs by Household Type;; ACS2018 5Y estimate; B11005. Transportation: Tenure by Vehicles Available: ACS2018 5Y estimate; B25044. Minorities: Hispanic or Latino Origin; ACS2018 5Y estimate; B03003. Minorities: Race; ACS2018 5Y estimate; B02001. Socioeconomic: Poverty Status of Individuals in the past 12 months by Household Type; ACS 2018 5Y; B17017.

Households w/ Children >18 yrs.

Below Poverty Level





To the left is a series of zoning maps that depict the land uses for the top four vulnerable block groups that are located in the interior of New Circle Road. Based on my analysis, these neighborhoods all have parks within or in close proximity and have a diversity of residential typologies, businesses, and industries. These land use maps suggest that the land uses located within the neighborhoods boundaries are not substantial

- Census Tract 20.01, Block Group 1 Cardinal Hill
- Census Tract 11, Block Group 4 St. Martins Village
- Census Tract 4, Block Group 2 Williams Wells Brown
- Census Tract 3, Block Group 3 Martin Luther King

EAR-2 : Expansion Area Residential ED : Economic Development -1 : Light Industrial I-2: Heavy Industrial M-1P: Mobile Home Park MU-2: Mixed Use Neighborhood Corridor MU-3 : Mixed Use Community Corridor P-1 : Professional Offices R-1 (A-D): Single-Family Residential R-1T : Townhouse Residential R-2 : Two-Family Residental R-3: Planned Neighborhoods R-4 : High-Density Apartments R-5 : High-Rise Apartments

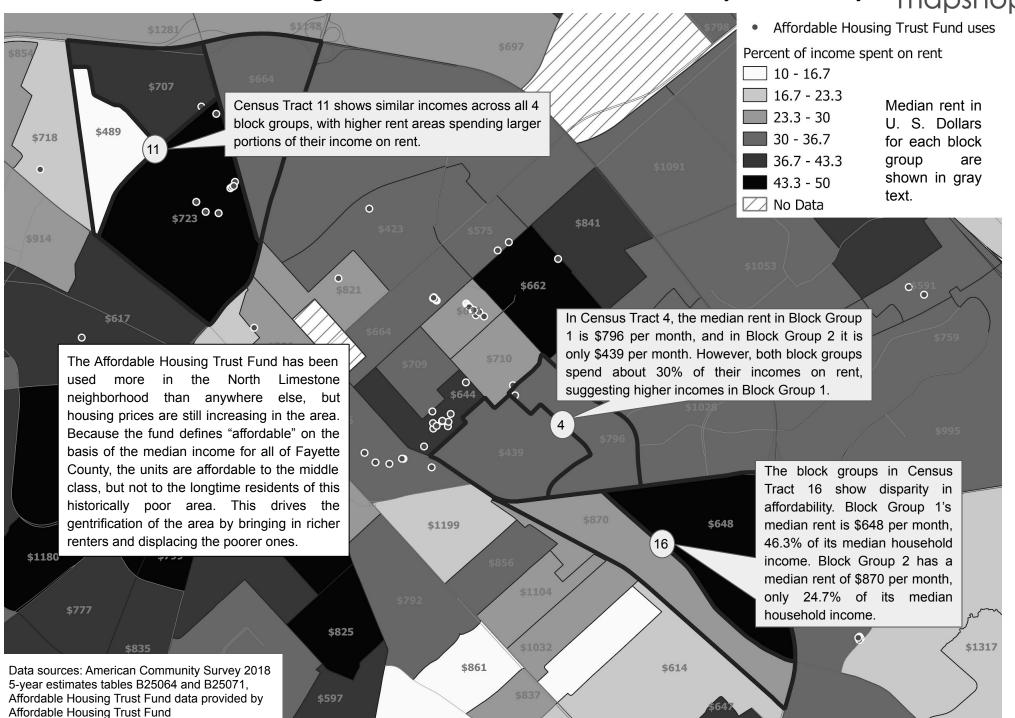
CC : Community Center

EAR-1 : Expansion Area Residential

Disparities in Housing Affordability In Selected Areas of Lexington

Casey Lyons University of Kentucky



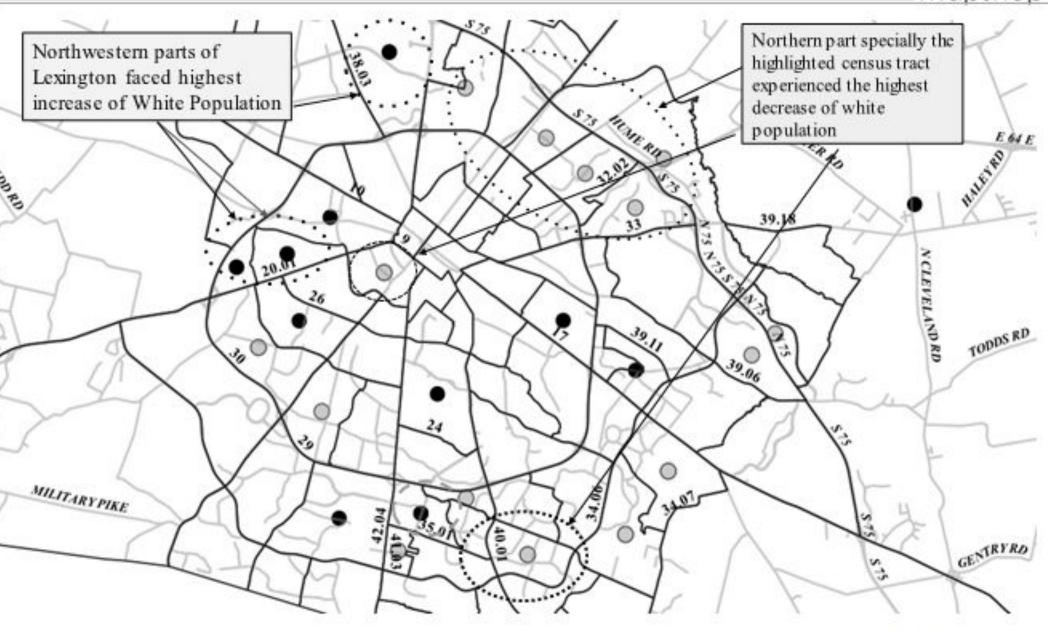




Spatiotemporal changes of racial segregation from 2012 to 2018

Shishir Sarker



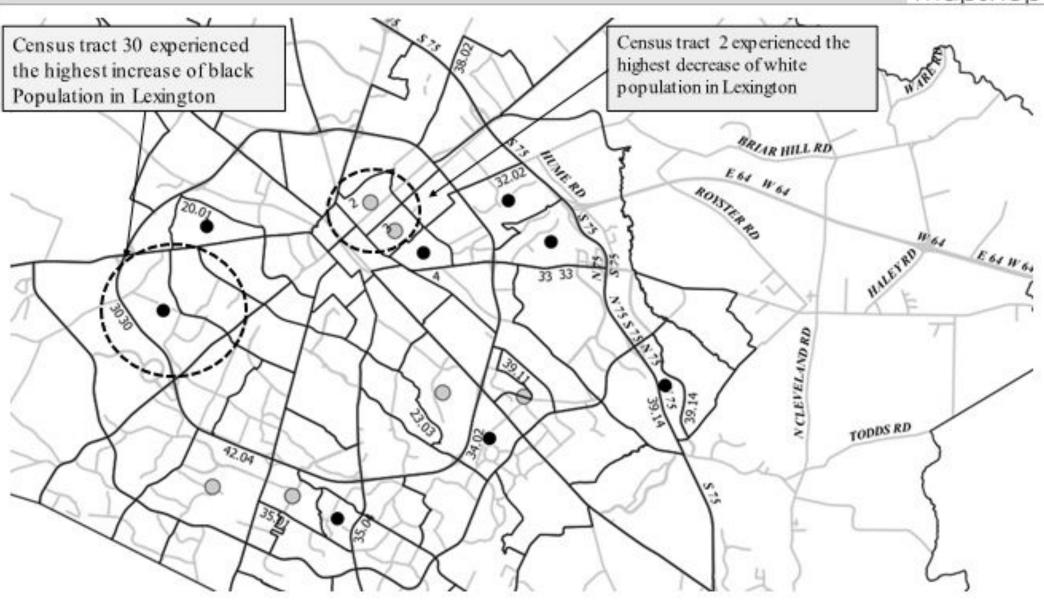


Change in white population (>10%), inclusive of margin of error, 2012-2018

Increase

Decrease



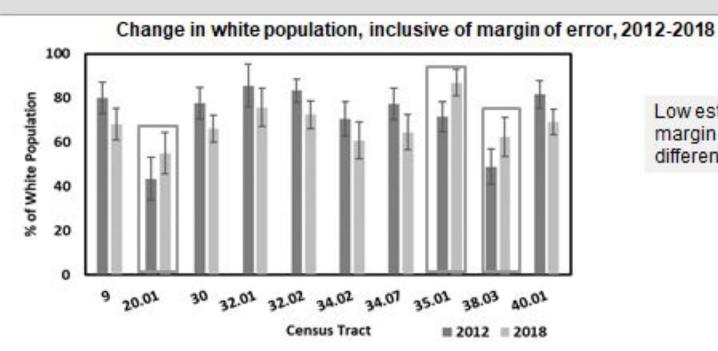


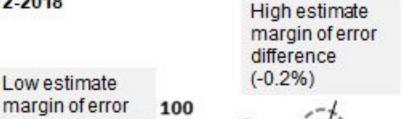
Change in black population (>10%), inclusive of margin of error, 2012-2018

Increase

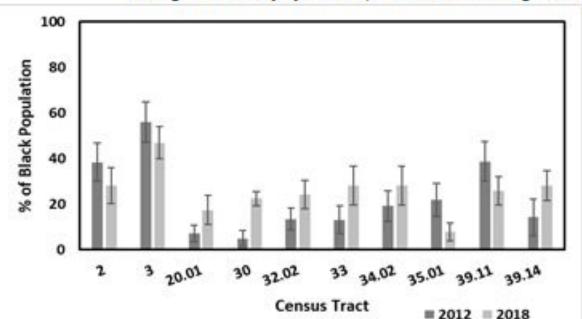
Decrease

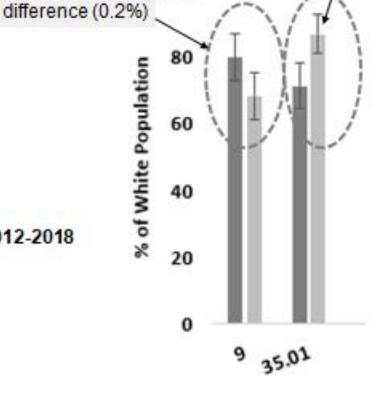






Change in black population, inclusive of margin of error, 2012-2018





Data Source: https://data.census.gov/cedsci/