

Socioeconomic disparities in COVID-19 outcomes

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Background and Objectives

Across the United States, there have been major racial/ethnic and socioeconomic disparities in COVID-19 testing, positivity, hospitalizations, and deaths

Goal: Improve health equity in COVID response by

- Examining differences in COVID-19 outcomes by race/ethnicity, socioeconomic status, and geography
- Ensure response efforts and resources are focused on communities that may be made more at risk to COVID-19 due to social or economic conditions

Data Sources

WA Department of Health/Public Health-Seattle and King County COVID surveillance

- COVID testing, positivity, hospitalizations, and deaths at the census tract-level

2014-2018 American Community Survey: census tract-level measures of demographics, socioeconomic status, and occupation

Race/ethnicity

Country of birth

Limited English-speaking
households

Household size

Rental crowding

Income/poverty

Employment

Occupation type

Education

GINI index

Area Deprivation Index

Index of concentration at the
extremes (race & income)

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Essential healthcare worker:

- Healthcare practitioners and technical operators
- Healthcare support occupation

Data Sources

WA Department of Health/Public Health-Seattle and King County COVID

sur

Essential non-healthcare worker:

- Construction and extraction
- Farming, fishing, forestry
- Installation, maintenance, and repair
- Material moving
- Production
- Transportation
- Office and administrative support
- Sales and related
- Building and grounds cleaning and maintenance
- Food preparation and service related
- Personal care and service
- Protective

income/poverty

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COVID-19 Social & Economic Risk Index

CREATING A COMPOSITE MEASURE OF SOCIAL AND ECONOMIC RISK
FACTORS



Scores range from 0 to 4
Higher score = greater
COVID-19 risk

Social and Economic Risk Index



Racial/Cultural Diversity

People of color
Limited English-speaking households
People born outside the US



Income/Employment

Household income below 200% of
federal poverty limit
Unemployment, 25 or older



Socioeconomic Position

Less than a bachelor's degree
Less than a high school education
Employed in essential non-
healthcare occupation
Rental crowding
Uninsured (18-64 yo)



Essential Healthcare Worker

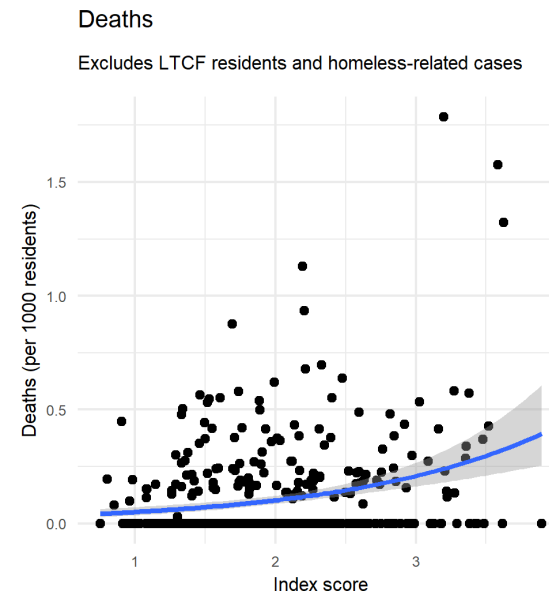
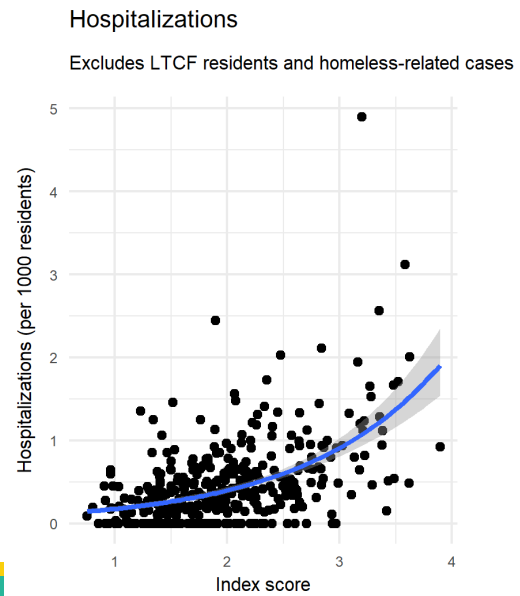
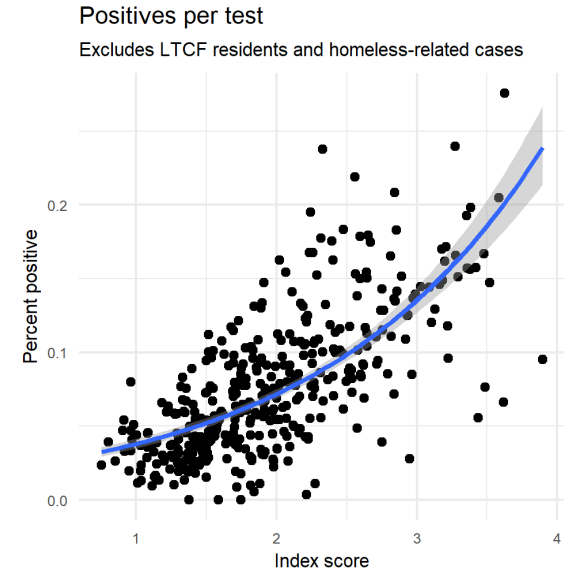
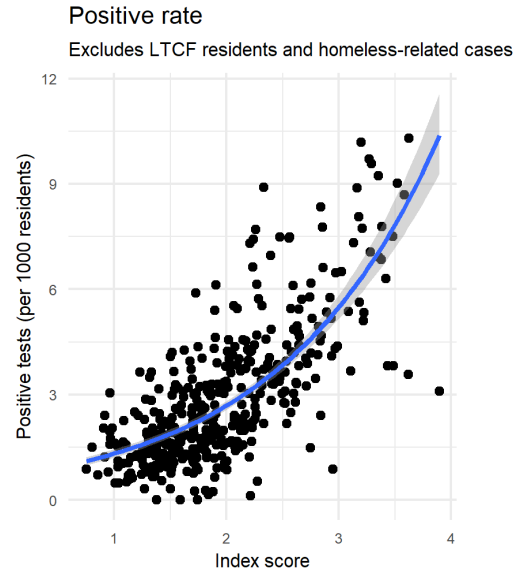
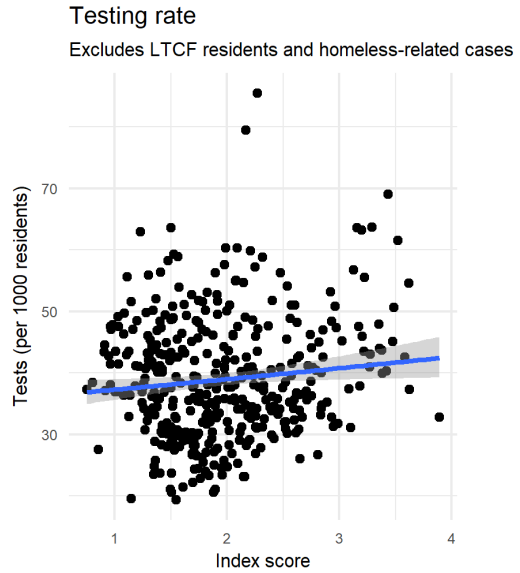
Employed in healthcare-related occupation



Housing Characteristics

Number of occupants in household

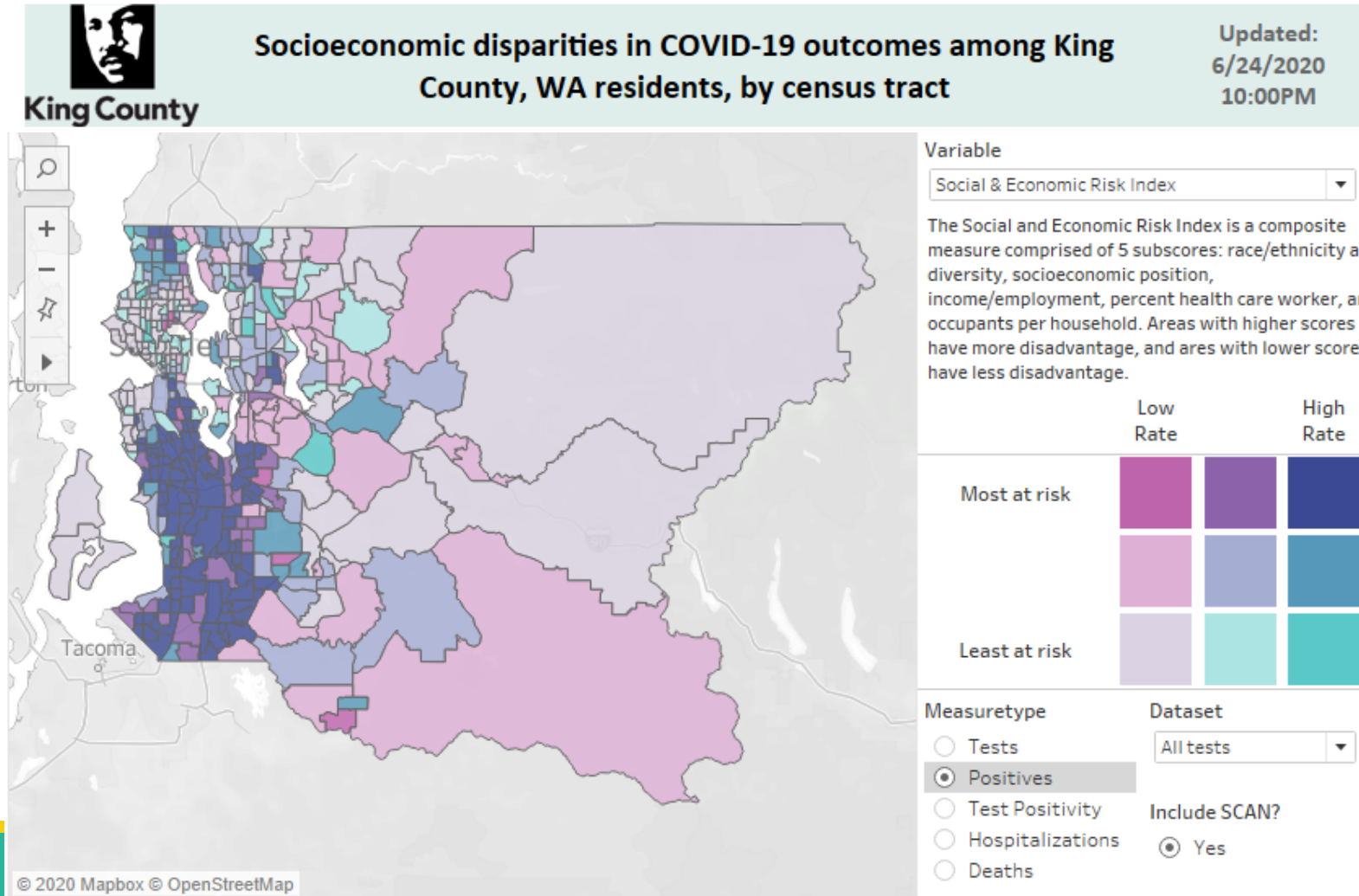
Index score



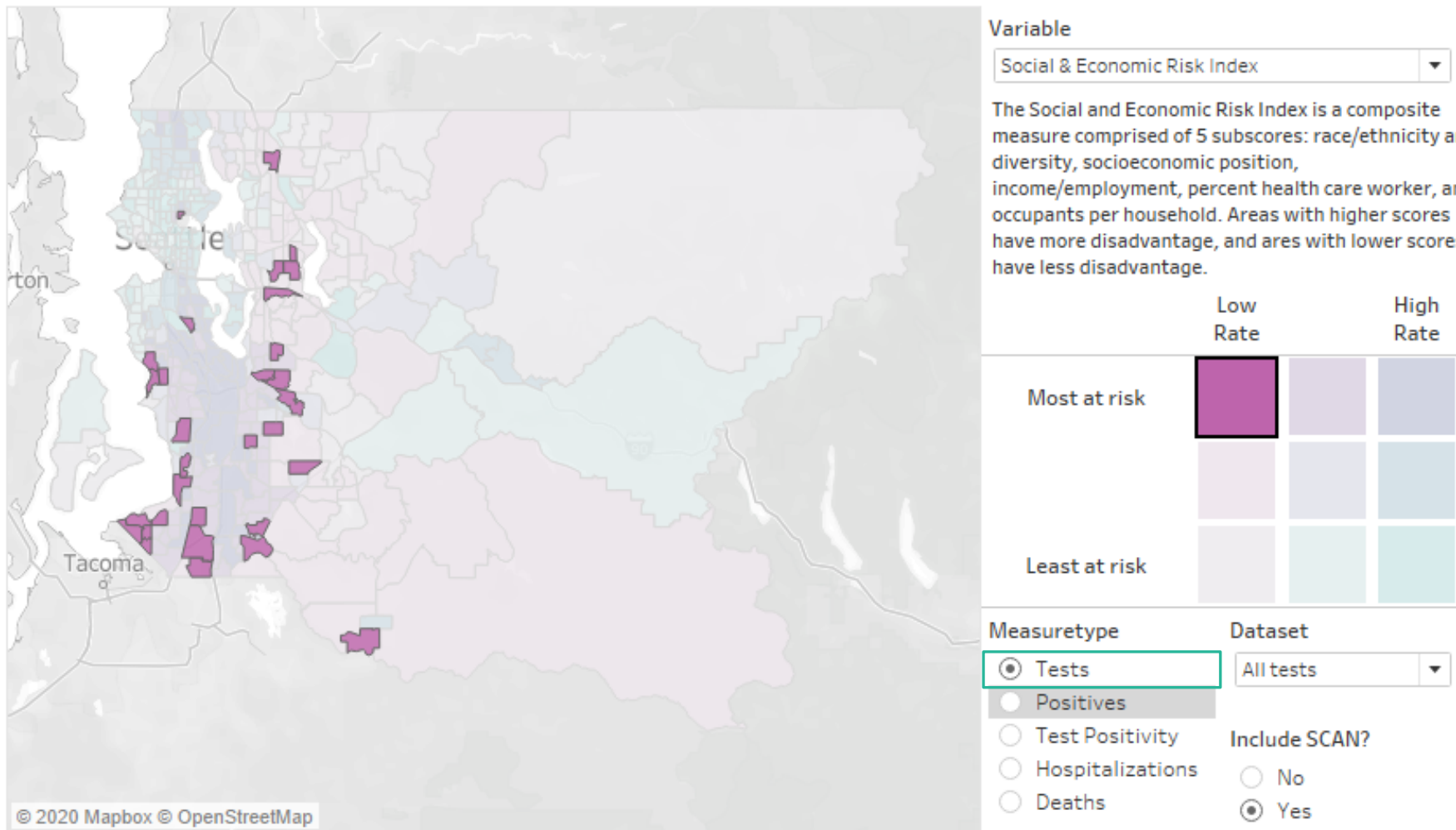
Scores range from 0 to 4
Higher score = greater
COVID-19 risk

PHSKC Socioeconomic Disparities Dashboard


PHSKC Dashboard



Most at risk, Lowest Testing



Communities with high SERI, high test positivity, and low testing rates



Census Tract COVID-19 Testing and Test Positivity by Social and Economic Risk Index Score

Updated:
6/24/2020 10:00PM

Description: The data below show test rates and test positivity by census tract and socioeconomic disadvantage index score. This line list can be used to identify areas with low test rates and high test positivity, stratified by level of socioeconomic disadvantage.

How to use: The filters above the map can be used to highlight census tracts in the map based on test rate and test positivity, and filter based on level of socioeconomic disadvantage. The filters at the bottom of the page can be used to filter the line list by test rate category and test positivity category.

Note: These data excludes SCAN, long term care facility-related, and homeless shelter-related tests.

Tract	Index Score	Test Rate	Test Rate Cat	Test Positivity	Test Positivity Cat
236.04	High	37.79	Low	7.43	High
312.06	High	38.84	Low	12.76	High
303.05	High	41.51	Low	6.64	High
251.01	High	42.21	Low	13.49	High
219.04	High	44.67	Low	9.23	High
303.06	High	45.94	Low	7.04	High
267	High	46.33	Low	6.33	High
304.04	High	46.39	Low	8.81	High
276	High	47.15	Low	11.90	High
293.07	High	47.22	Low	7.73	High

Testing Rate: Low

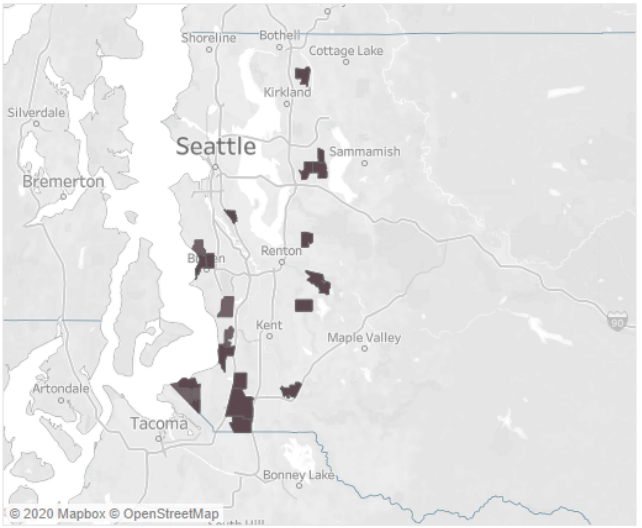
Test Positivity: High

Index Score: Social and Economic Risk Index

Index Score Value: High; Most at risk, Med, Low; Least at Risk

Test Positivity: High, Med, Low

Test Rate Cat: High, Med, Low



Next Steps

Change over time: are disparities getting better or worse over time?

Public-facing dashboard & outreach

SERI refinements