



# Communities Count

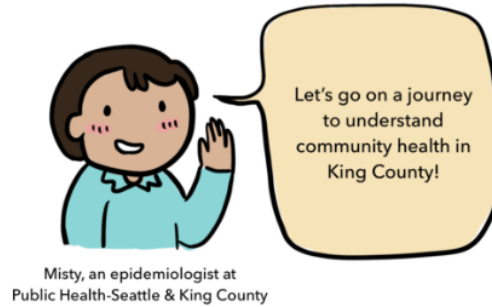
## The King County Health Disparities Dashboard: Measuring Health Equity

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Communities Count, Public Health Seattle and King County

October 10, 2019

# About Communities Count



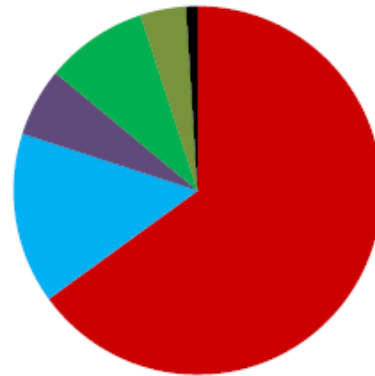
- Communities Count is a resource that supports King County communities in using data and evaluation to support equity work.
  - Produced by staff at Public Health Seattle and King County
- Started over 20 years ago as a population based survey on health and social well being in King County, WA
- Transitioned to an online data platform in 2011, with a curated set of over 50 health and social indicators with interpretative narrative
  - Find us at: [communitescount.org](http://communitescount.org)
- Provides data and evaluation trainings and technical assistance to build capacity and further equity work in King County

# King County's Changing Population

In recent years King County has experienced a substantial growth spurt – in population and diversity

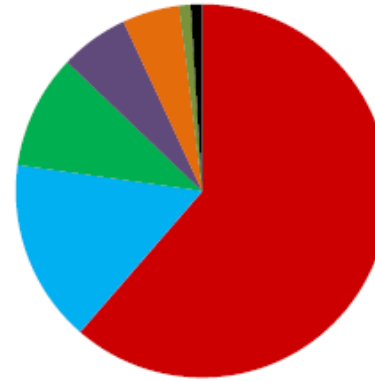
More than half of King County children are children of color

King County, 2010  
Population: 1,931,249



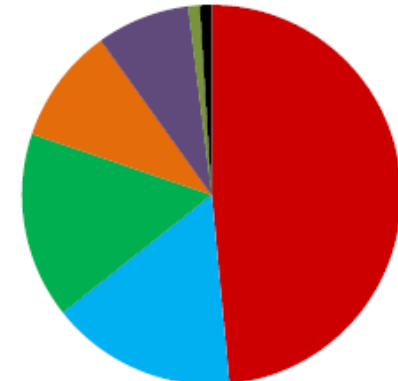
White/non-Hispanic	65%
Asian/non-Hispanic	15%
Hispanic/Latino	9%
Black/African American non-Hispanic	6%
Multiple race	4%
American Indian/Alaska Native/non-Hispanic	1%
Native Hawaiian/Pacific Islander/non-Hispanic	1%

King County, 2016  
Population: 2,105,100



White/non-Hispanic	62%
Asian/non-Hispanic	16%
Hispanic/Latino	10%
Black/African American non-Hispanic	6%
Multiple race	5%
American Indian/Alaska Native/non-Hispanic	1%
Native Hawaiian/Pacific Islander/non-Hispanic	1%

Population under age 18, King County, 2016  
Population: 441,454

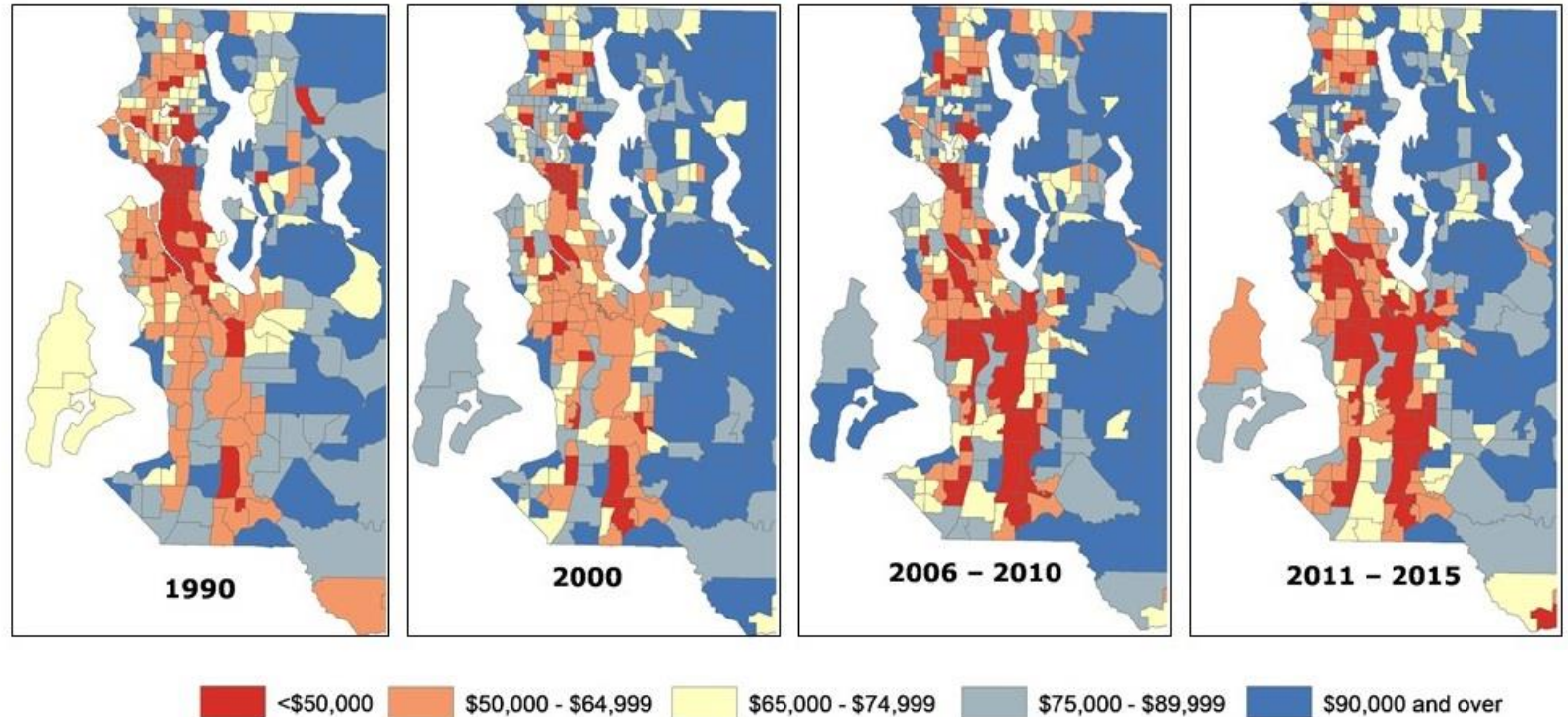


White/non-Hispanic	49%
Asian/non-Hispanic	16%
Hispanic/Latino	16%
Multiple race	10%
Black/African American non-Hispanic	8%
American Indian/Alaska Native/non-Hispanic	1%
Native Hawaiian/Pacific Islander/non-Hispanic	1%

# Disparities in King County

While median household income has steadily increased since 2000, there is a widening gap between the county's highest and lowest income households.

Median household income by King County neighborhood, 1990-2015



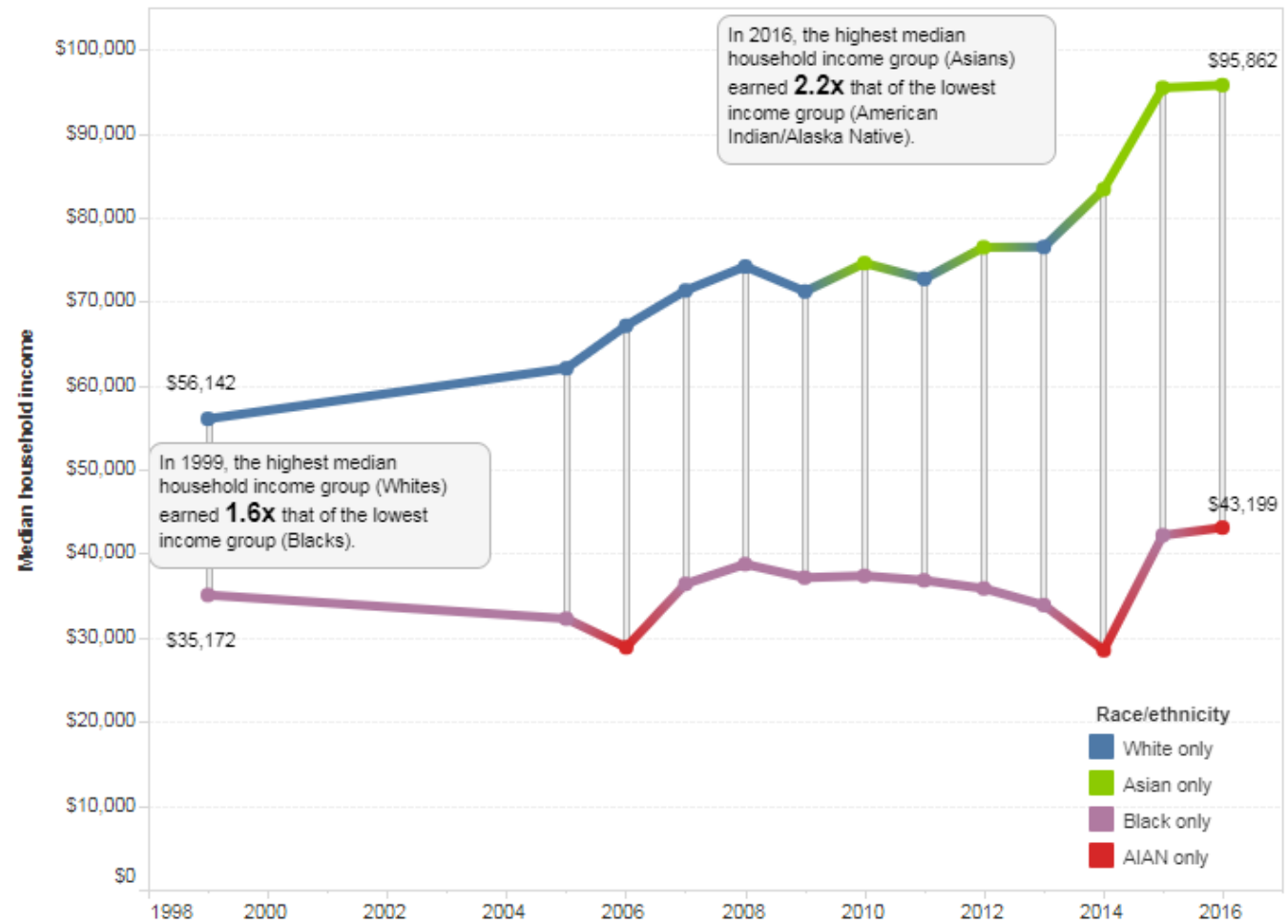
Data sources: US Census Bureau, 1990 & 2000 censuses; American Community Survey (2006-2010, 2011-2015)

- Southwest King County income decreasing
- Downtown and South Seattle income increasing
- Neighborhoods around Lake Union income increasing
- Overall, Seattle becoming wealthier, south region becoming poorer

# Disparities in King County

Regional prosperity has not benefitted everyone and we are seeing increasing income inequality and a rising cost of living

Highest and lowest median household income by race/ethnicity, King County (1999, 2005-2016)



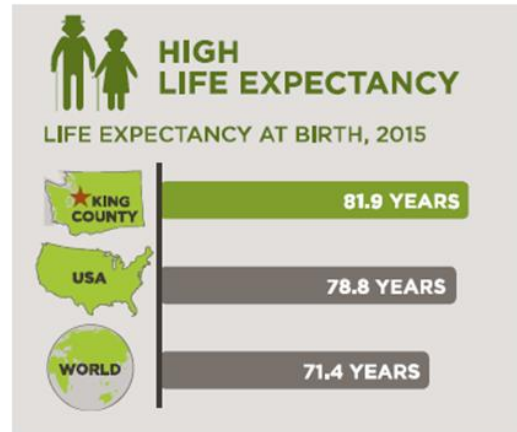
Data source: American Community Survey 1999, 2005-2016

Communities Count, 09/2017

# Disparities in King County

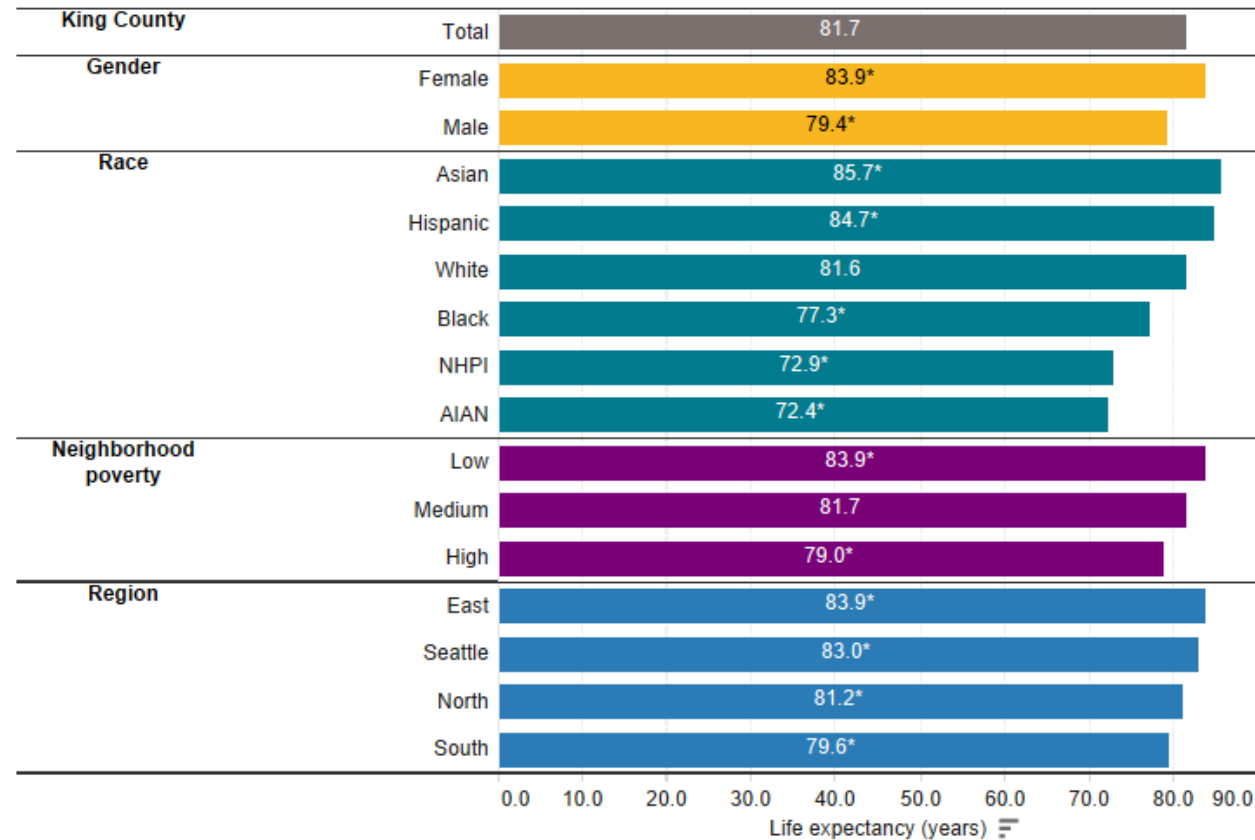
King County ranks among the top counties in the U.S. on measures of health and wealth

However... despite high rankings on measures of socioeconomic status and health, county residents continue to experience differences in social and health outcomes by race, income and place



Source: WA State Department of Health, Center for Health Statistics, death certificates

## Life expectancy at birth, King County (average: 2013-2017)



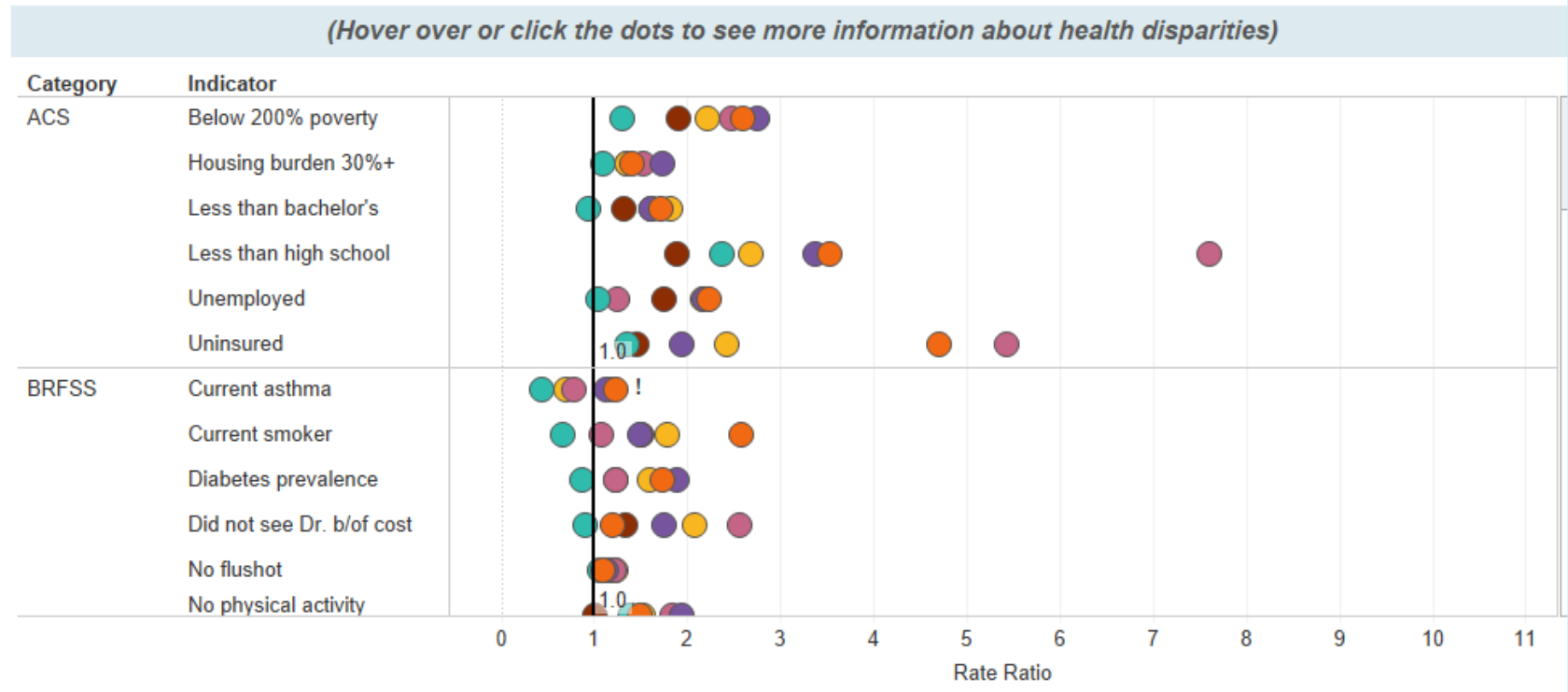
^ = Data suppressed if too few cases to protect confidentiality and/or report reliable rates  
 \* = Significantly different from King County average  
 ! = Interpret with caution; sample size is small, so estimate is imprecise

AIAN = American Indian/Alaska Native  
 NHPI = Native Hawaiian/Pacific Islander

# Health Disparities Dashboard: Objectives

[www.communitiescount.org/health-disparities-dashboard](http://www.communitiescount.org/health-disparities-dashboard)

- Provides a data visualization tool to display the **magnitude of race/ethnicity differences** on over 50 indicators of health and well-being in King County.
- Centers health outcomes and social determinants of health data on race, to start conversations on the structural racism and racial bias that cause health inequities
- Making local level data on health disparities public and accessible



# Health Disparities Dashboard: Data and Analysis

- Conducted a search of key indicators, identifying those with salience and disparities by race/ethnicity
- Analyzed indicator data by race to produce rates and rate ratios compared to white residents and the King County population.
  - Outcomes data available by gender for some indicators
- Data sources included:
  - American Community Survey
  - Behavioral Risk Factor Surveillance System
  - Vital Statistics
  - WA State Cancer Registry
  - State Tuberculosis Program



# Health Disparities Dashboard: Data Visualization

- Used Tableau to visualize aggregated and analyzed data and host the interactive dashboard
- Interactive features expand user access to data and information:
  - Ability to view indicators by two comparison groups (white and the county average)
  - Filters for data source, indicator, gender and significance level provide customized views
  - Tooltips provide more detailed data and interpretation
  - Data and graphs can be downloaded by users
- Produced several iterations of the dashboard design based off of stakeholder feedback

# Health Disparities Dashboard

[www.communitiescount.org/health-disparities-dashboard](http://www.communitiescount.org/health-disparities-dashboard)

## King County Health Disparities Dashboard Measure: (Rate Ratios)

**Dashboard Filters:** Use the menus below to highlight, expand, focus and customize the data shown on the graph

**About:** Across 50+ health and socioeconomic indicators, this dashboard computes "relative rate ratios" to compare rates for communities of color to a comparison group (whites or King County average).

For example, a ratio of 2 between Hispanic and the King County average means the Hispanic rate is twice the average rate for King County; a ratio of 1 means both rates are equal; and a ratio below 1 means the comparison rate is higher.

### Select comparison group

White

### Race (Click on a group to highlight)

- American Indian/Alaska Native
- Asian
- Black
- Hispanic
- Native Hawaiian/Pacific Islander
- Multiple Race

### Data category

- ACS
- BRFSS
- Life expectancy
- Deaths
- Cancer deaths
- Cancer incidence
- Maternal/child health
- TB incidence

### Filter indicators

All

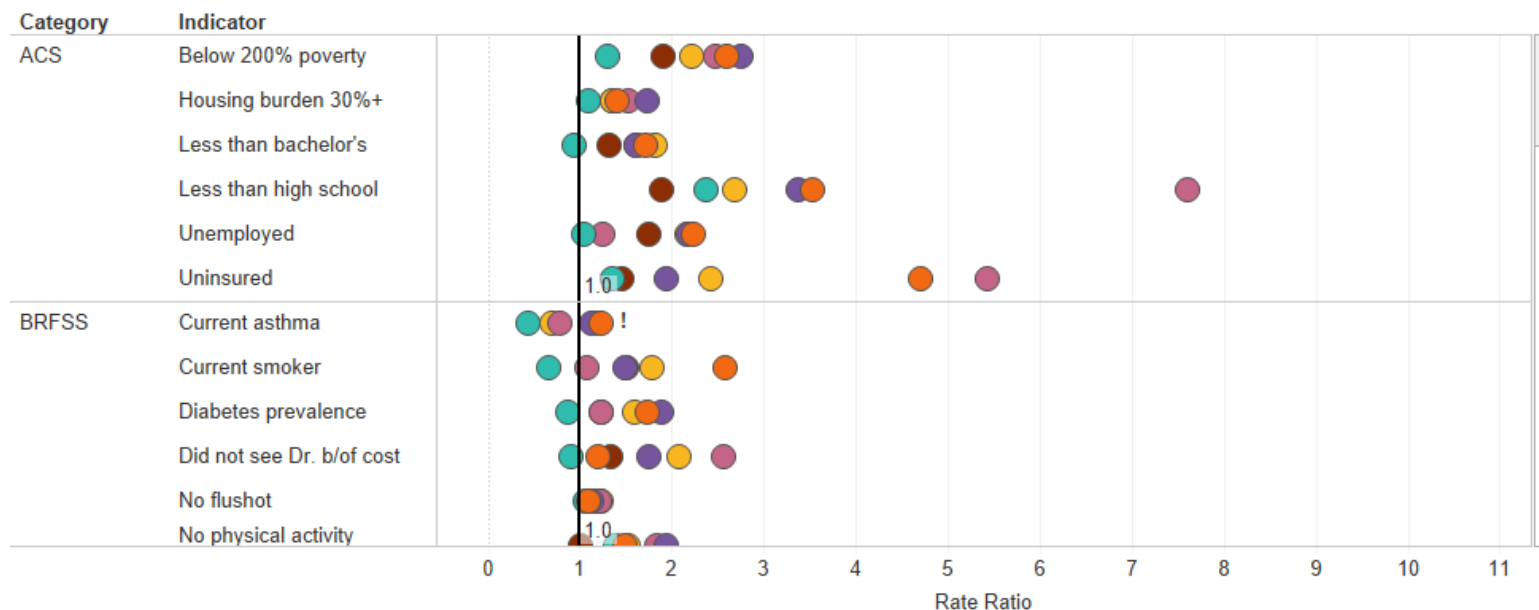
### Gender (not available for all data)

- All
- Female
- Male

Filter results to a significance level  
All

Filter results to a rate ratio level  
All

(Hover over or click the dots to see more information about health disparities)



! = relative standard error (RSE)  $\geq 30\%$  suggests estimate is unreliable due to small sample size.  
Public Health - Seattle & King County, APDE; 5/2019

[Click here to see rates for all groups on the next tab](#)



# Use Cases

- Has helped provide data for identifying priority areas for the public health department
  - Teen Birth Indicators informing Maternal Child Health programs
  - Informing data for outreach and enrollment navigators in understanding the biggest disparities for groups.
- Other local health jurisdictions in Washington State have expressed interest in the dashboard and looking at health outcomes in a similar way.
- Provided the Hepatitis B Coalition of Washington with information on liver cancer disparities for Asian King County residents.

# Providing local context for disparities

**Communities Count**

TOPICS DATA SUPPORT BLOG ABOUT

SEARCH

## BLOG

ALL POSTS

BLOG SUBSCRIPTION

SEARCH BLOG:

**May 2, 2019 · Equity**

### Tracing The Roots of Difference: A Blog Series

In addressing questions about equity, analysts often present results that differ significantly by race or gender or sexual orientation. [Read More](#) →

**March 13, 2019 · Food, Income**

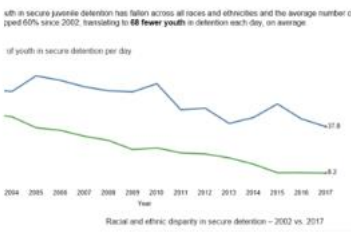
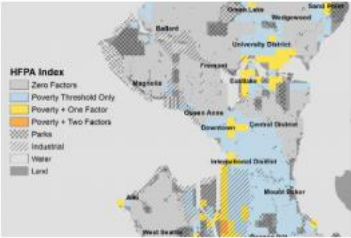

### Soda Tax Helps Map Seattle's Healthy Food Environment

One goal of Seattle's sweetened beverage tax is to **expand access to healthy and affordable food**. To guide allocation of tax revenues to support this goal, the City asked researchers at Public Health – Seattle & King County and the University of Washington [Read More](#) →

**February 14, 2019 · Data Resource, Equity**

### Zero Youth Detention: New resources Map The Path, Track Progress

Two new resources support the goal of attaining Zero Youth Detention in King County: (1) a comprehensive Road Map to Zero Youth Detention and (2) a dashboard for tracking progress. [Read More](#) →



Thank you!



# Communities Count

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