

# Average download speeds

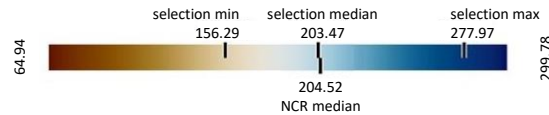
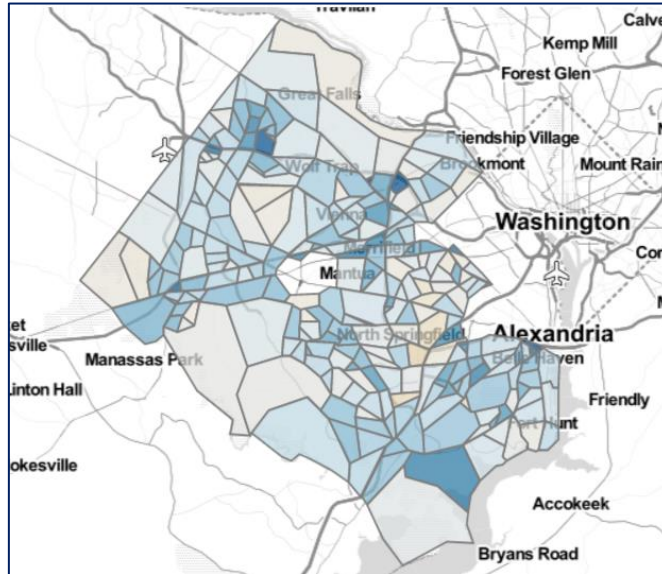
## Average Download Speed by Census Tract in Mb/sec

Average download speeds in Mb/sec

Selection: all census tracts

Fairfax County, 2021

Source : Ookla Open Data Initiative

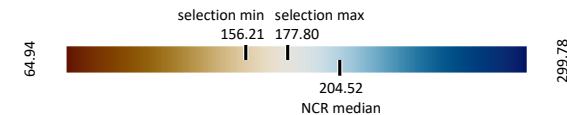


Average download speeds in Mb/sec

Selection: lowest 20 census tracts

Fairfax County, 2021

Source : Ookla Open Data Initiative



Fairfax County has average download speeds well above the 100Mb/sec broadband standard. However, these speeds are not evenly distributed. If we look at just the lowest 20 download speeds by census tract, we can see that the Springfield and Annandale areas stand out as having slower than average speeds.

# Households with broadband

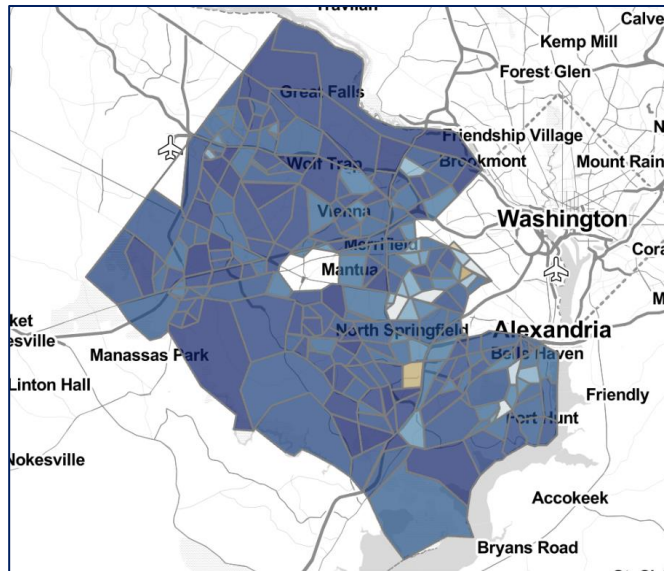
Households that reported having a broadband connection

Percent households with a broadband connection

Selection: all census tracts

Fairfax County, 2019

Source : American Community Survey

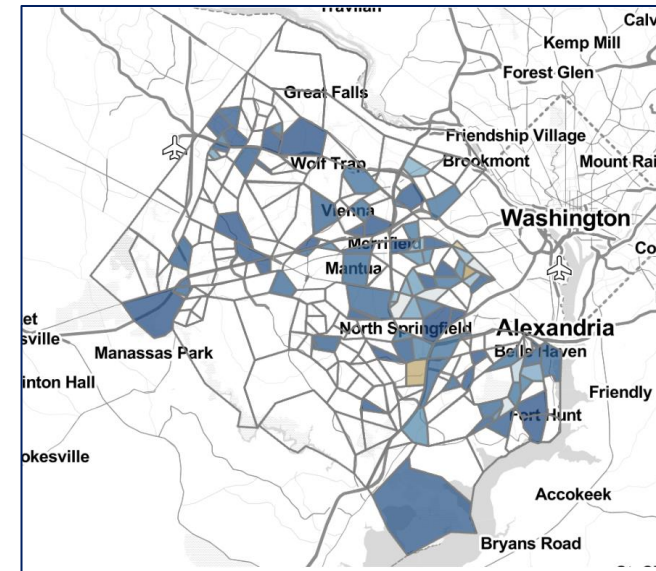


Percent households with a broadband connection

Selection: census tracts with lower-than-average broadband connections

Fairfax County, 2019

Source : American Community Survey

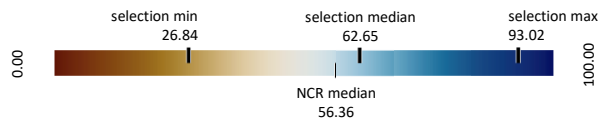
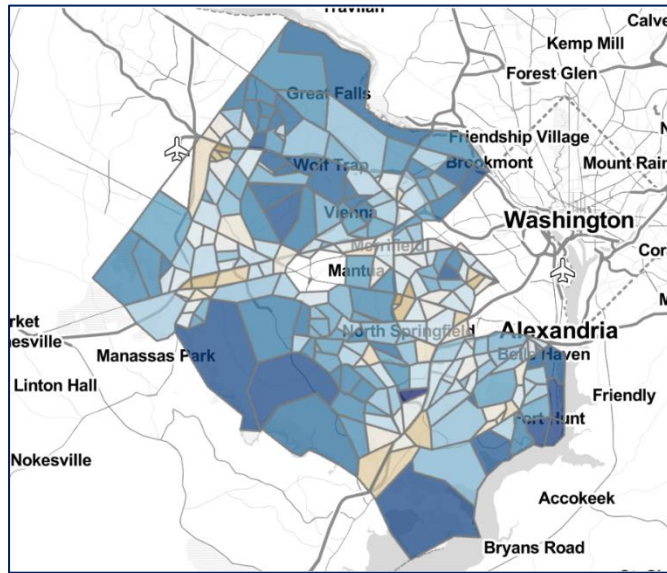


Fairfax County has an average number of households reporting having a broadband connect that is higher than the average in the NCR region (95.64% vs 92.46%). However, the distribution of households having a broadband connection is not evenly distributed. If we look at just the census tracts with with lower-than-median number of broadband connections, we can see again that the Springfield and Annandale areas, among others, stand out.

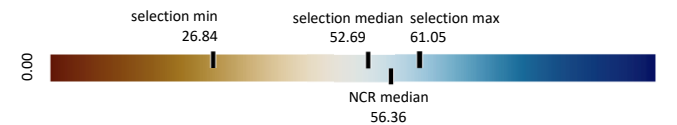
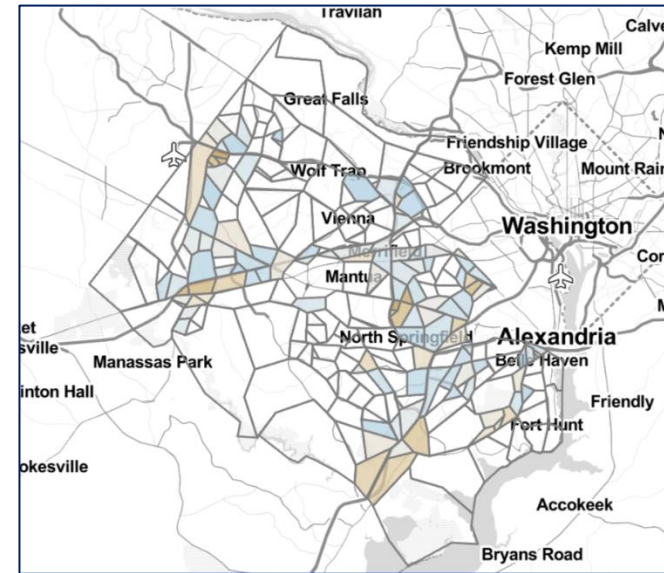
# Concentration of people-of-color by tract

Percent non-Hispanic white population, all census tracts vs census tracts below median

Percent population that is non-Hispanic white  
Selection: all census tracts  
Fairfax County, 2019  
Source : American Community Survey



Tracts with highest percentage of people-of-color  
Selection: census tracts with lower than the county median pct non-Hispanic white, < 62.65%  
Fairfax County, 2019  
Source : American Community Survey



Looking at the distribution of the white population, and therefore, inversely, the distribution of non-white/people-of-color, we can see that many of the census tracts with the highest percentage of non-white are the same census tracts with the lowest download speeds and the lowest number of household broadband connections.

# Percent household income to purchase broadband

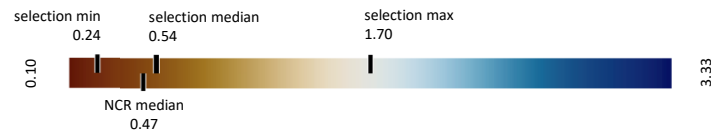
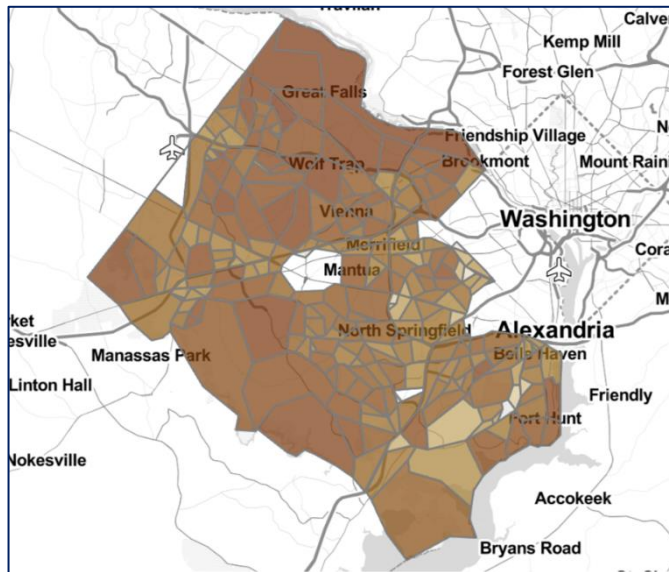
## Distribution of tracts with highest impact of broadband costs

Cost of broadband as a percentage of household income

Selection: all census tracts

Fairfax County, 2021

Sources : Ookla Open Data Initiative  
Broadband Now

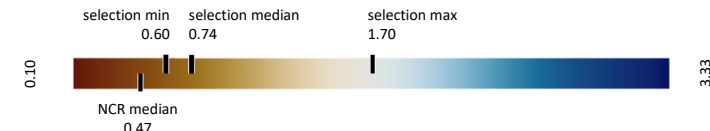
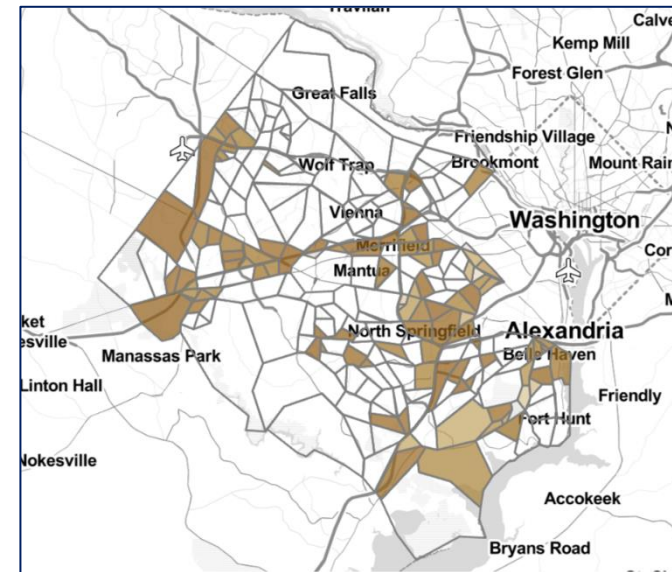


Cost of broadband as a percentage of household income

Selection: census tracts where cost of broadband is greater than the county median (0.55%)

Fairfax County, 2021

Sources : Ookla Open Data Initiative  
Broadband Now



Looking at the ratio of broadband subscription cost to median household income, we can see that not all areas are impacted equally. As with the other maps, we can see the Springfield and Annandale areas stand out.