descriptives

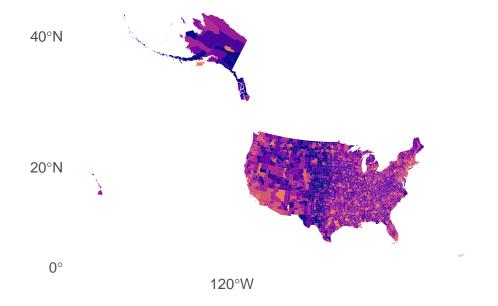
Maps with ALL estimates included

 	I	0%
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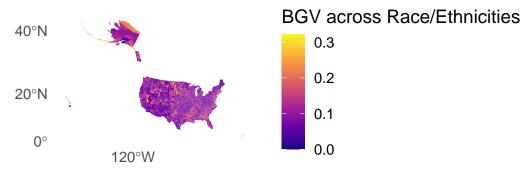
BGV across Tracts



BGV across Income



BGV across Race/Ethnicities

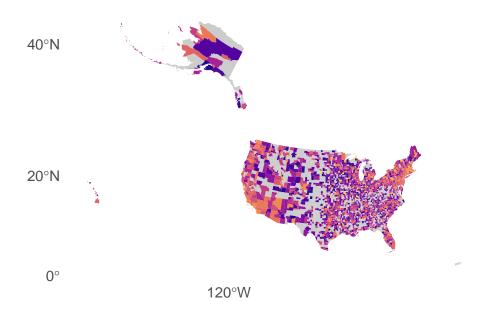


Maps with unstable estimates removed

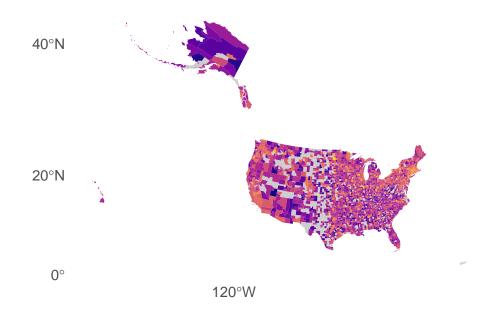
Note that BGV is a sum.... so counties without reliable estimates end up with BGV = 0. I manually set BGV = 0 to NA to produce these maps.

The coasts (California and New England) appear to have high tract and income disparities but possibly lower race disparities. Perhaps we should do some regional and/or state-level exploration.

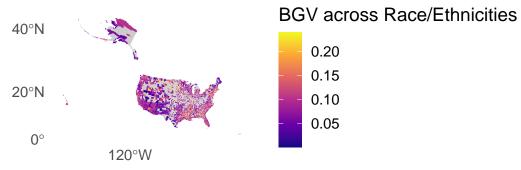
BGV across Tracts



BGV across Income







Histograms of Race, Income, Tract with and without unstable estimates included

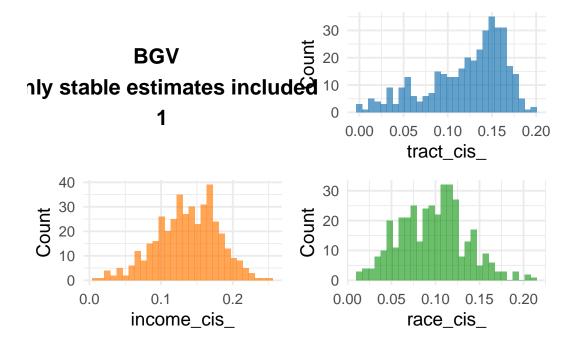
Note: the number corresponds to the urbanicity category.

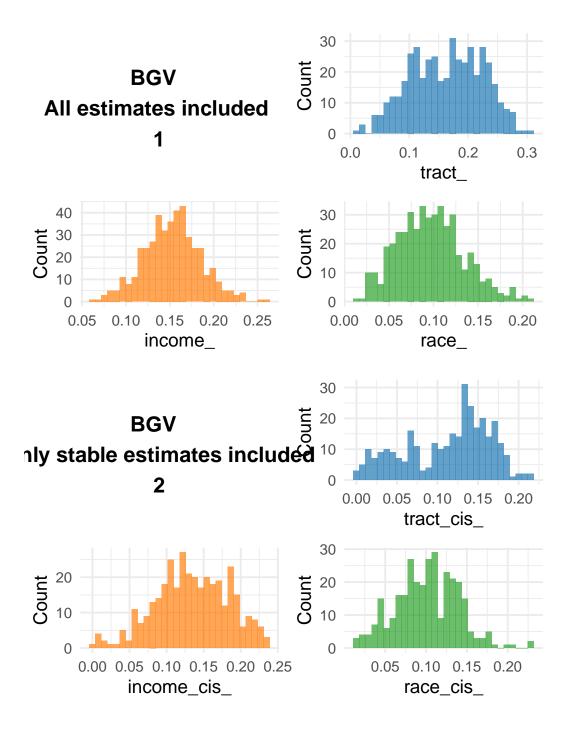
1 is the most urban and 9 is the most rural.

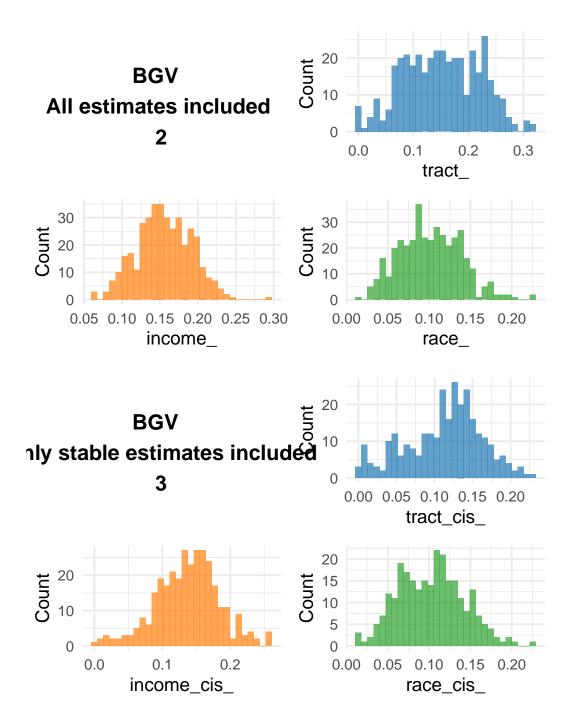
BGV values become less meaningful after we remove instable estimates for the most rural (8 and 9) categories.

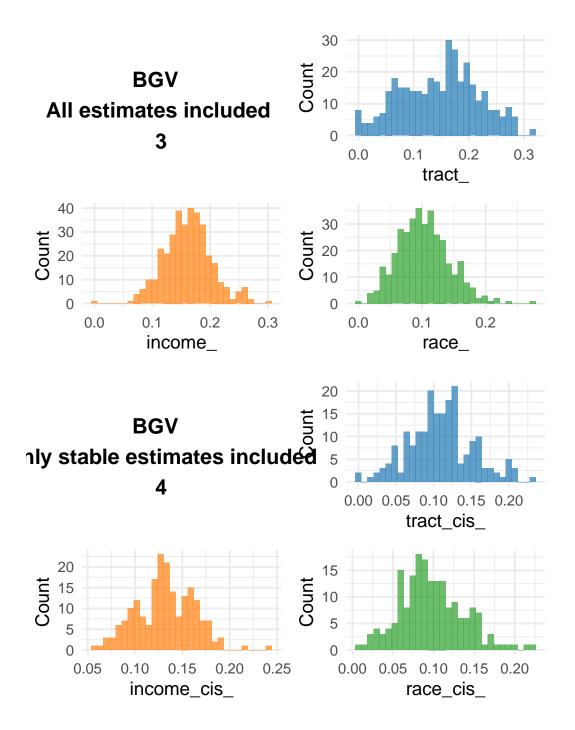
Across urbanicity categories, the tract domain appears to be most affected by stability. When unstable estimates are removed, the distribution of tract tends to skew right or left; when all estimates are included, the distribution of tract tends Normal.

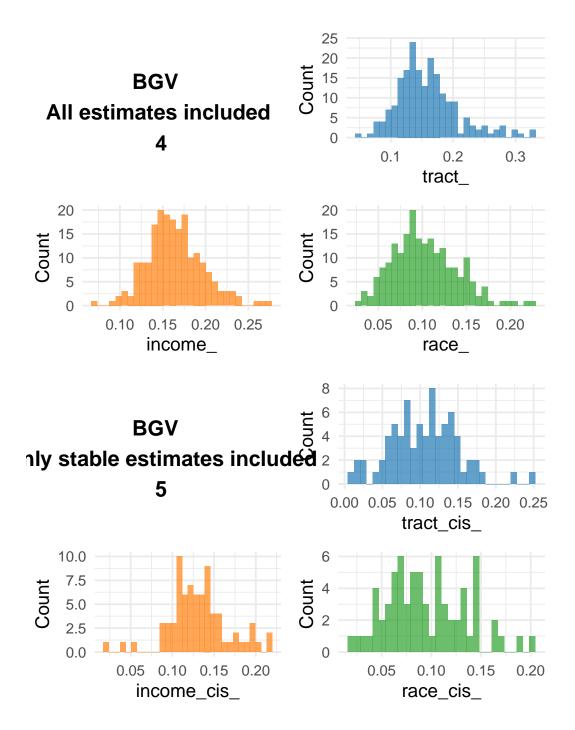
Note that BGV is a sum.... so counties with unstable estimates end up with BGV values of 0, not NA.

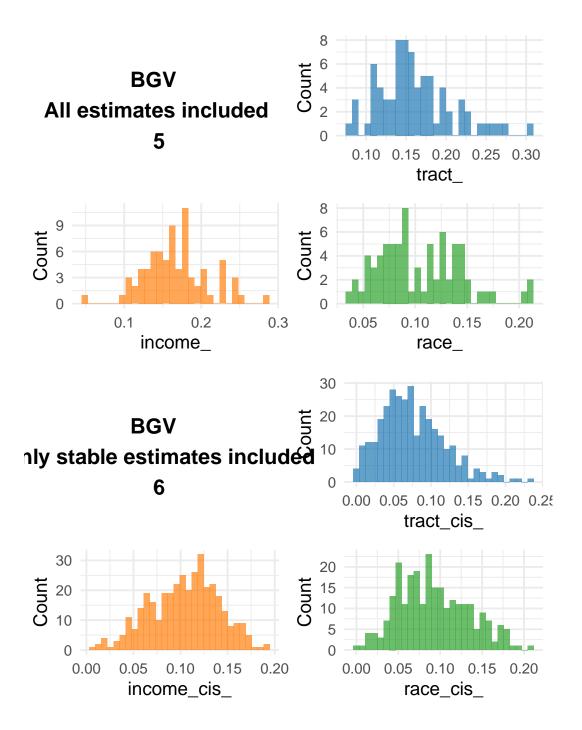


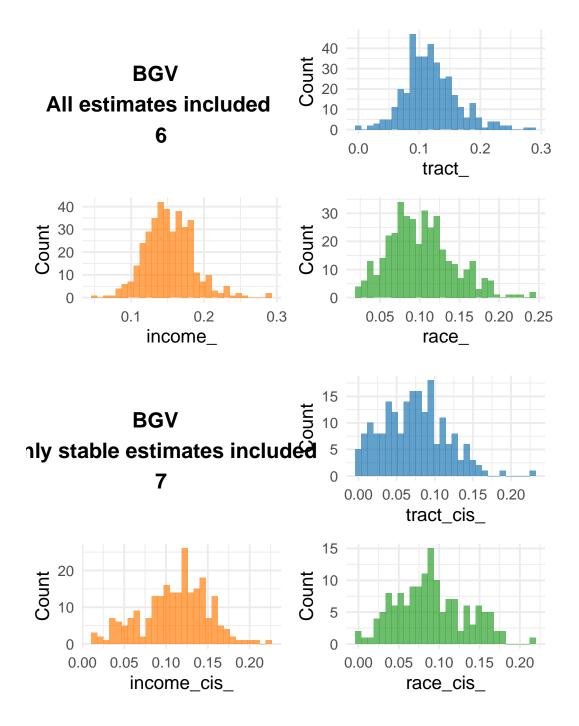


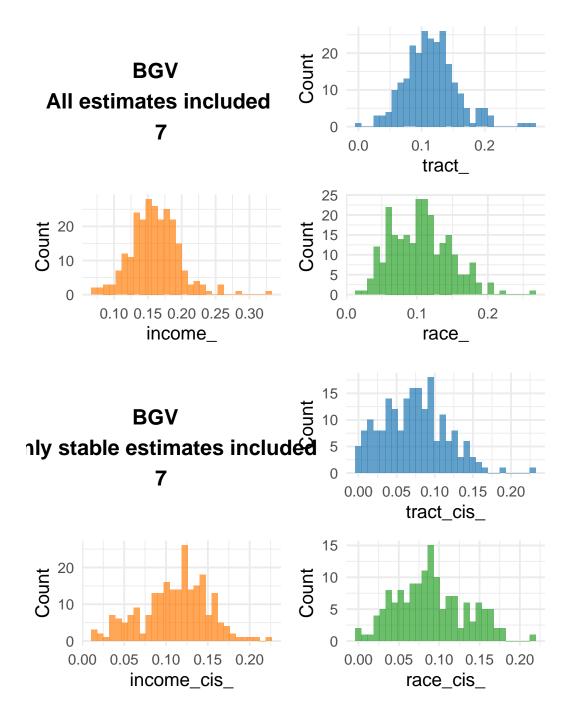


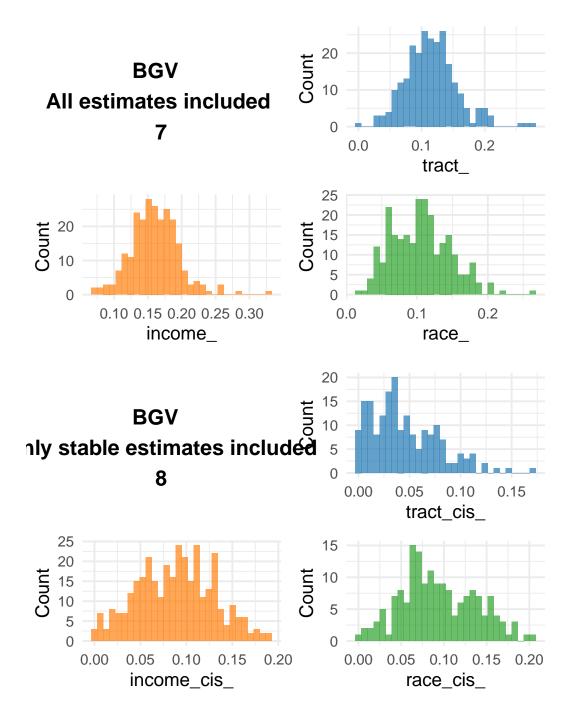


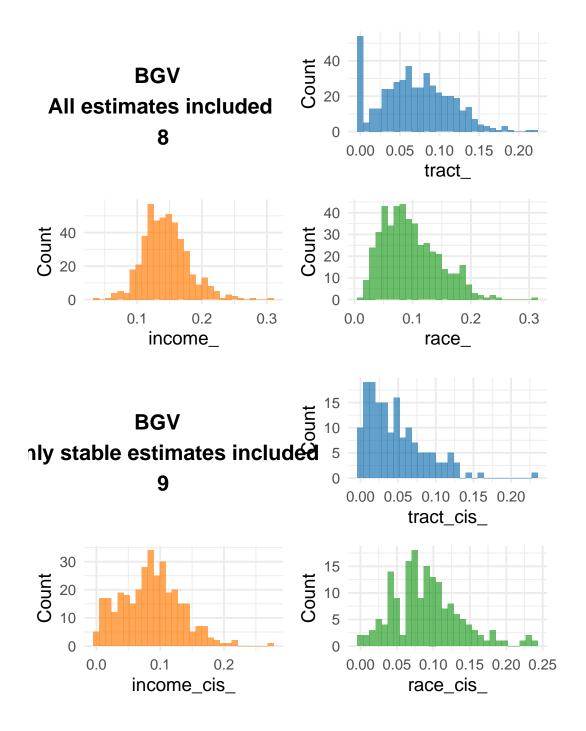


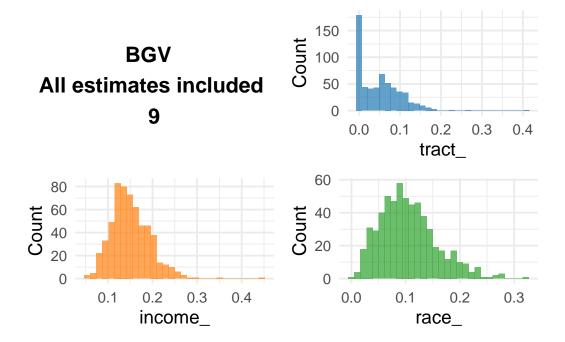










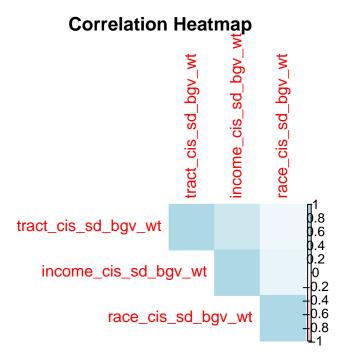


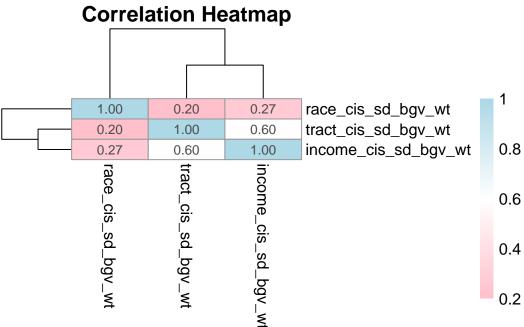
Correlations

Tract disparities and income disparities are more strongly correlated than tract disparities and race disparities. Income and race disparities are /slightly/ more correlated than tract and race disparities.

The strength of the correlation between tract disparities and income disparities is much lower when we include ALL estimates, not just stable ones. This could be because 94.6% of counties that have missing (unstable) values for income estimates also have missing (unstable) values for tract estimates, resulting in artificially high correlation when we use stable estimates only.

Stable estimates only





The strongest correlation occurs between tract and income, weakest between tract and race. All correlations are significant.

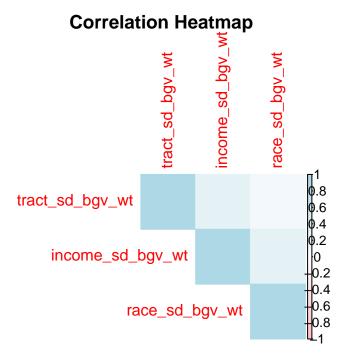
```
Spearman's rank correlation rho
```

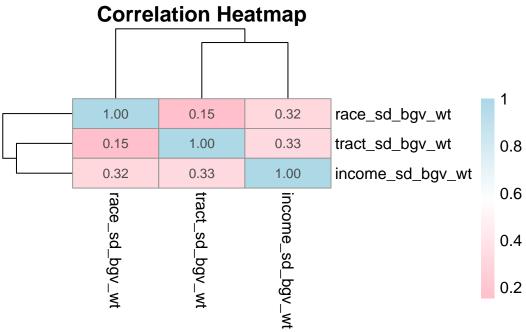
Spearman's rank correlation rho

Spearman's rank correlation rho

```
data: hist_data$tract_cis_sd_bgv_wt and hist_data$race_cis_sd_bgv_wt
S = 630540796, p-value < 2.2e-16
alternative hypothesis: true rho is not equal to 0
sample estimates:
    rho
0.2258608</pre>
```

ALL data

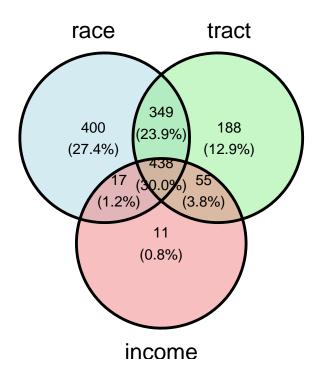




Missing Data by Category

Category	Count	Percent Missing
Race	1204	38.29517
Tract	1030	32.76081
Income	521	16.57125

Missingness



Descriptive stats by RUCC code

The largest percent missing occurs for race estimates. The smallest percent missing occurs for tract estimates.

Among very rural counties (9) the percent missing for tract and race disparities is over 13%, but only 8% missing for income disparities.

The magnitude of the median BGV value is highest among urban to suburban (codes 1 through 5) counties across income groups.

Missing Counts and Percentages RUCC Code Race Missing Count Race Percent Missing Income Missing Count Income Percent N 1 71 2.2582697 31 2 742.353689631 0.983 96 41 1.3 3.0534351 4 15 0.47709920 0.05 6 0.19083970 0.06 121 3.848600514 0.4^{4} 7 101 19 0.6 3.21246828 300 134 4.2 9.54198479 420 13.3587786251 7.98

Missing Data and Summary Statistics by Urban/Rural Category

			Missing Count	s and Pe
Urban/Rural Category	Race Missing Count	Race Percent Missing	Income Missing Count	Income
Rural	963	30.629771	418	
Urban	241	7.665394	103	

The magnitude of the median BGV value is lowest among urban counties (codes 1, 2, 3) across racial groups. Median BGV values are also relatively low for rural (codes 8 and 9) counties across census tracts.

Only two RUCC groups

Split is here: https://www.ers.usda.gov/data-products/rural-urban-continuum-codes/documentation#:~:text=For%20Rural%2DUrban%20Continuum%20Codes,below%20250% 2C000%20(code%203).