

Data Visualization Project – US Census Demographic Data

Insight 1

<https://public.tableau.com/profile/jessica1327#!/vizhome/AveragePovertybyStates/Sheet1?publish=yes>

From this bar chart, we can see the average % of poverty by state. It appears that Puerto Rico has the highest poverty average at 49.37%, whereas Connecticut has the lowest average at 9.40%.

A bar chart was chosen for ease of comparison between states in %, both ascending and descending.

Insight 2

<https://public.tableau.com/profile/jessica1327#!/vizhome/PovertybyStateCounty/Sheet8?publish=yes>

From the histogram, we can see the poverty data has a right skewed distribution with the tail of the distribution tapered off to the right. Majority of the count are between bin 8 and bin 21 (7.71 and 20.56 bins in Tableau Public), and there are 535 counties that fall in bin 13 (12.85 on Tableau Public).

A histogram was chosen to visualize the poverty % distribution by buckets across the nation. Filters were added for further breakdown by states.

Insight 3

<https://public.tableau.com/profile/jessica1327#!/vizhome/PovertybyStateCounty/Dashboard1?publish=yes>

From the dashboard, we can see the total income by state as well as its correlation to poverty. The map shows that Texas has the highest sum of income as indicated by the dark blue color. When we look at the bubble chart, the size of the bubble is reflective of the income, and the color the level of poverty. The largest bubble is Texas as it has the highest income at \$11.8M, whereas the darkest bubble belongs to Puerto Rico with the highest average poverty 49.37%. From the scatter plot, the trend line is indicative of a negative correlation between average poverty and average income: the lower the average income, the higher the average poverty. On one end, Puerto Rico has an average income of \$17,920 with an average 49.37% poverty; on the other end Connecticut has an average income of \$71,184 with an average 9.40% poverty.

The map was chosen to show distribution of total income across the nation. The bubble chart was added to include poverty using color and to enhance the map's data in an alternate way. A scatter plot was incorporated to show relationship between average income vs. average poverty.

Resources N/A