

# Census Report

## 1. Is there a correlation between the level of poverty and the level of professional jobs?

Link:

[https://public.tableau.com/views/CensusProjectJobandPoverty/PovertyRateProfessionalJobs?:language=en&:display\\_count=y&:origin=viz\\_share\\_link](https://public.tableau.com/views/CensusProjectJobandPoverty/PovertyRateProfessionalJobs?:language=en&:display_count=y&:origin=viz_share_link)

Summary:

I was curious to see whether there is a correlation between the poverty rate and the percentage of the population that works in the professional industry. Those that work in the professional industry tend to have a higher salary. The scatter plot shows there is a negative correlation between the poverty rate and the percentage of a state's population that has a job in the professional industry (management, business, science, and arts). It seems that the higher the percentage of people in the professional industry, the lower the poverty rate. There are a couple of outliers though, with one being Washington, D.C., the nation's capital, and the other, Puerto Rico, a U.S. territory that does not receive the same benefits of a recognized state.

Design:

I chose a scatter plot since I wanted to see if there is a correlation between the two data sets. A scatter plot gives a clear visual of whether there is a positive or a negative correlation, or if there is even any correlation at all.

Resources:

Main causes for Puerto Rico's high poverty rate:

<https://borgenproject.org/5-causes-of-poverty-in-puerto-rico/>

Correlation between poverty and the working the working poor:

<https://www.bls.gov/opub/reports/working-poor/2016/home.htm>

## 2. What is the distribution of the Asian American population in the U.S.?

Link:

[https://public.tableau.com/views/CensusProjectAsianPopulation/PercentofAsiansbyState?:language=en&:retry=yes&:display\\_count=y&:origin=viz\\_share\\_link](https://public.tableau.com/views/CensusProjectAsianPopulation/PercentofAsiansbyState?:language=en&:retry=yes&:display_count=y&:origin=viz_share_link)

Summary:

I wanted to look at which states have the largest Asian American population. Based on the visual, the top five states with the highest Asian American population are Hawaii (36.75%), California (13.52%), New Jersey (9%), New York (7.92%), and Washington (7.6%).

Design:

I started with a horizontal bar graph and sorted in descending order so I can get an immediate answer to my question. Digging deeper, I also wanted to see which counties within those states have the highest concentration of Asian Americans. Hovering over each bar, the tool tip provides a map of the counties within each state that has the highest concentration of Asian Americans.

Resources:

Key facts about Asian Americans:

<https://www.pewresearch.org/fact-tank/2017/09/08/key-facts-about-asian-americans/>

### 3. What does the job distribution look like by state and county?

Link:

[https://public.tableau.com/views/CensusJobDistribution/AGlanceatJobs?:language=en&:display\\_count=y&:origin=viz\\_share\\_link](https://public.tableau.com/views/CensusJobDistribution/AGlanceatJobs?:language=en&:display_count=y&:origin=viz_share_link)

Summary:

I created a dashboard to show the distribution of jobs by industry across the country, and where those jobs are within each state. For construction jobs, Nevada is the highest, at 17.93%. Puerto Rico has the highest percentage of office jobs (25.52%). Indiana has the highest percentage in production jobs (22.79%). Washington, D.C. has the highest rate in professional jobs (60.9%), Finally, Hawaii has the highest rate in service jobs (25.08%).

Design:

I used stacked bars to show the distribution of each job type within the state. The different colors provide a quick visual showing the proportion of each job type within each state. The map provides information on which county has the highest concentration for each job type. Using the filters, one can gather information on specific job types by state and by county.

Resources:

N/A