

# U.S. Income Trends

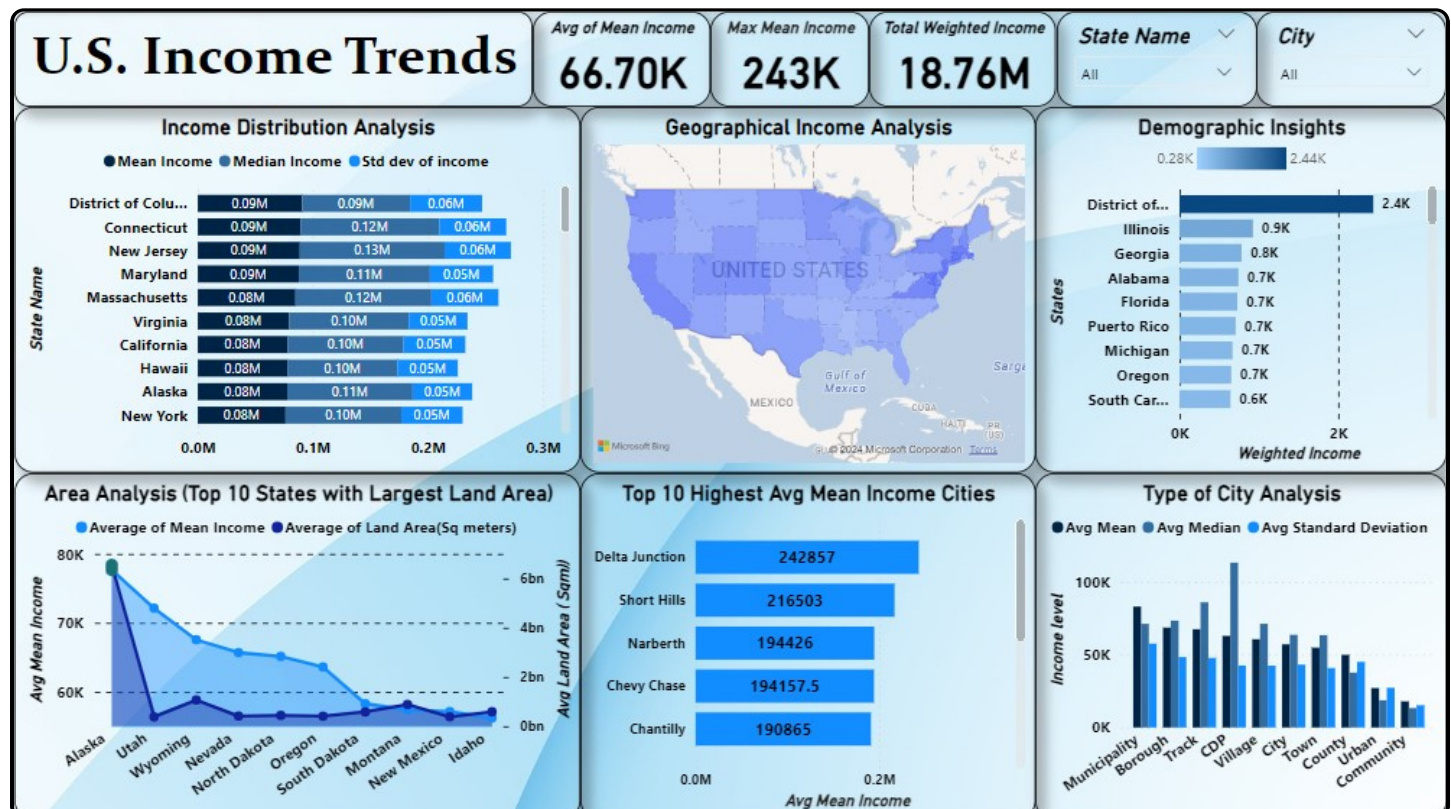
## Analysis & Insights

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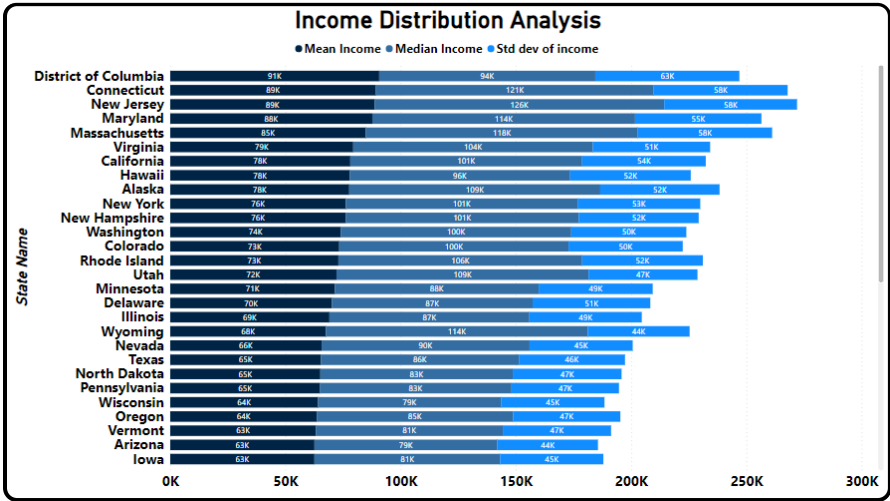
## Problem Statement

This project aims to create an interactive Power BI dashboard for analyzing U.S. income dynamics, providing visual insights into income distribution, demographic patterns, and geographical variations across different regions. The goal is to facilitate informed decision-making and highlight key trends in income demographics.

## Power BI Dashboard

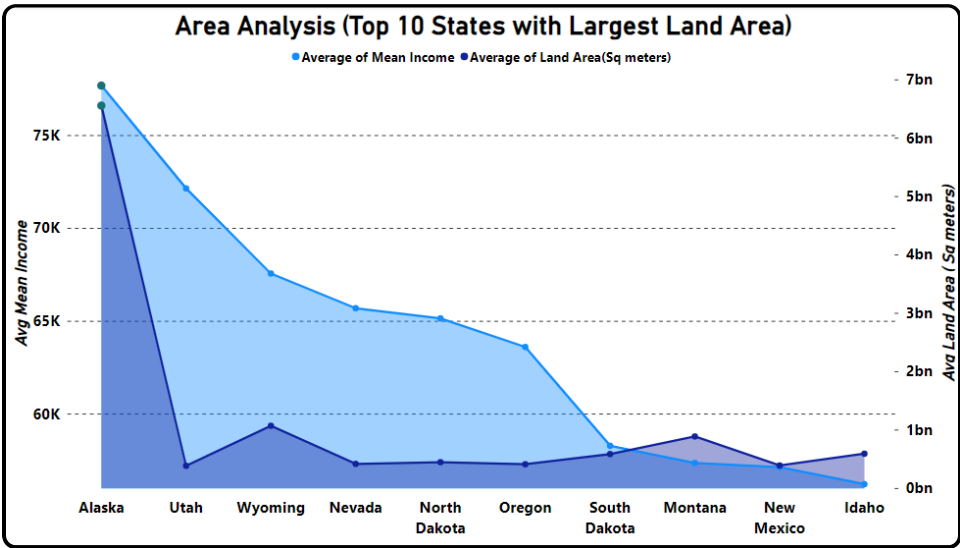


## Income Distribution Analysis



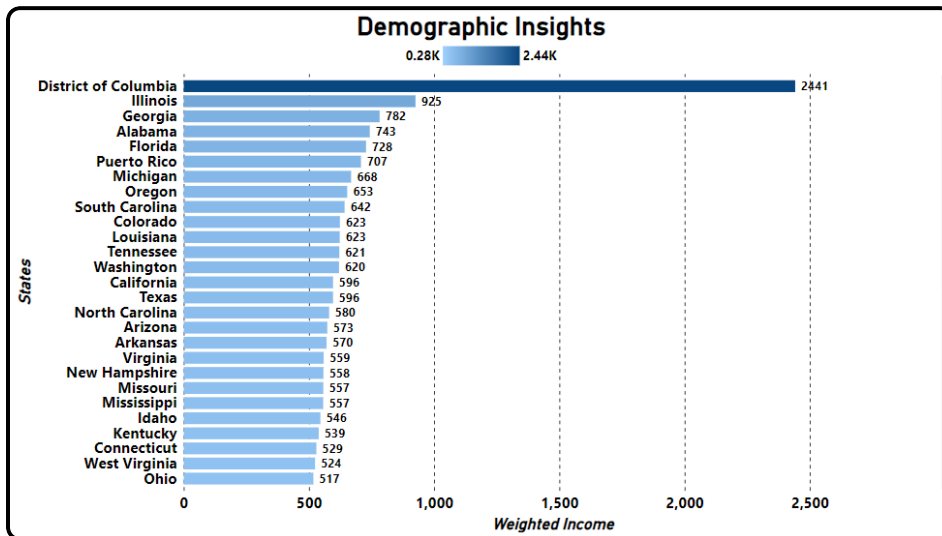
The graph presents a snapshot of income distribution in each U.S. state, showcasing the average income (mean), middle point (median), and income variability (standard deviation). It offers a quick comparison of economic characteristics, highlighting disparities and trends across states.

## Area Analysis (Top 10 States with Largest land Area)



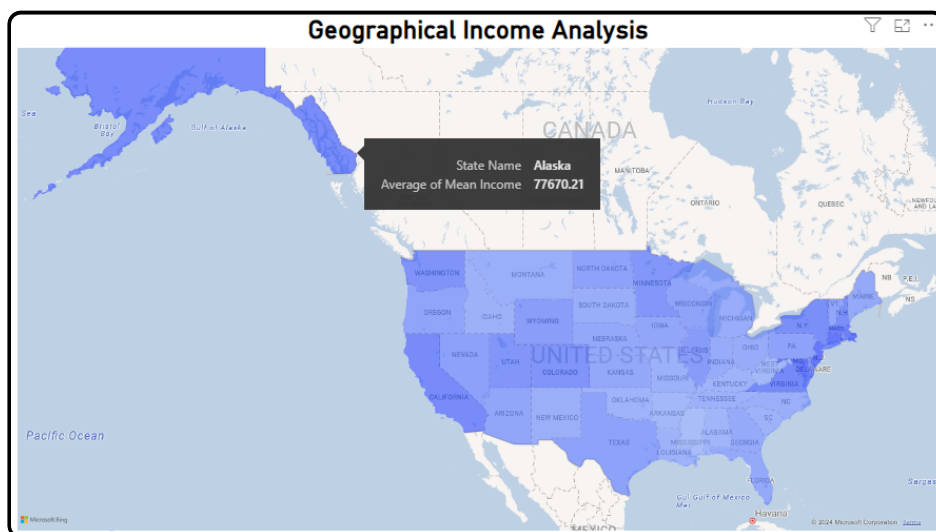
The area chart depicting the top 10 states with the largest land area presents a visual overview of both economic and geographical dimensions. The primary y-axis displays the average mean income, showcasing the economic landscape, while the secondary y-axis represents the average land area. This graph allows for a simultaneous comparison of the economic prosperity and geographical extent of the top states, offering insights into the relationship between land area and income levels.

## Demographic Insights



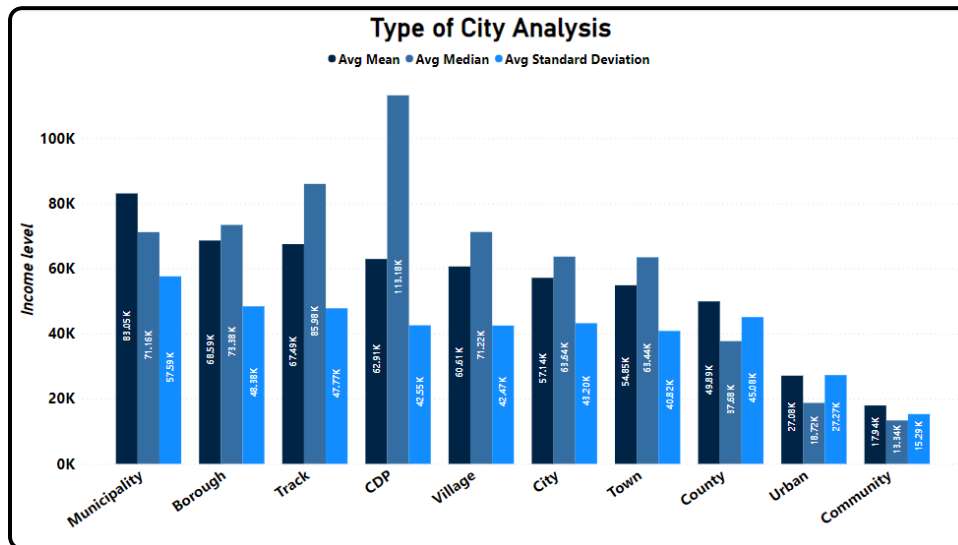
The bar chart illustrating state-wise average weighted income, with a legend depicting a gradient from lowest to highest (light to dark), provides a clear visual representation of the economic landscape across states. This graph enables a quick comparison of states based on their average weighted income levels, highlighting the range of economic prosperity with the gradient legend offering a nuanced perspective.

## Geographical Income Analysis



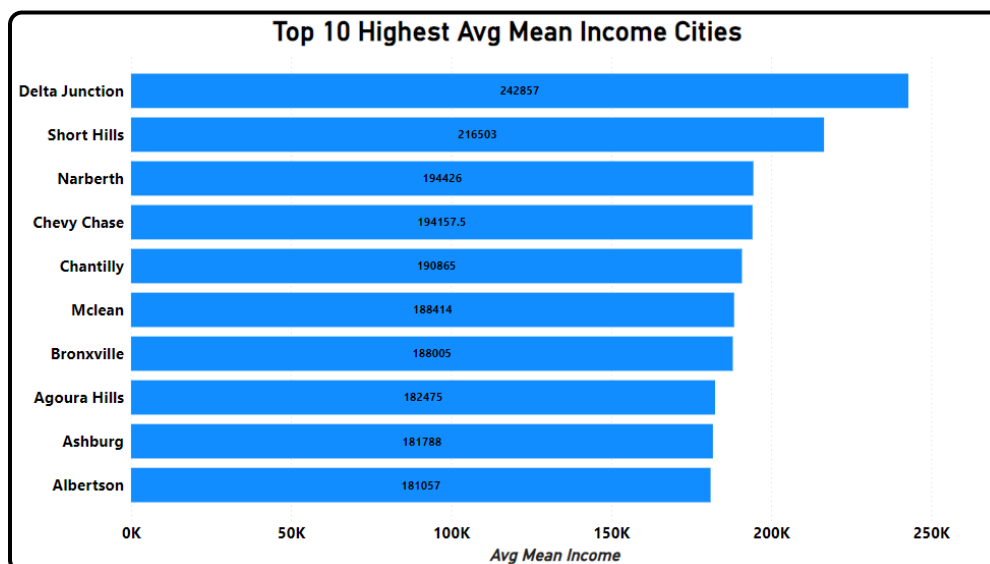
The interactive map visualization on the dashboard displays the Mean Income for each state. Hovering over the states provides a user-friendly way to quickly grasp and visualize income statistics in each state. Color of each state varies from light to dark which indicates low to high.

## Type of City Analysis



The graph illustrating city-wise mean, median, and standard deviation of income categorized by city types (CDP, Track, Borough, Village, Municipality, City, Town, County, Urban, Community) provides a succinct overview of income distribution patterns across different urban designations. It enables a quick comparison of income central tendencies and variations, offering insights into economic nuances based on city types.

## Top 10 Highest Average Mean Income Cities



The bar chart showcasing the Top 10 Cities with the Highest Average Mean Income provides a concise visual representation of economic affluence. The y-axis displays city names, while the x-axis illustrates the average mean income. This graph allows for a quick identification of the cities with the highest income levels, aiding in pinpointing areas of economic prosperity.