"The Case for Sub-National Economic Statistics" United States

Mauricio Ortiz

Seventh Meeting of the United Nations Network

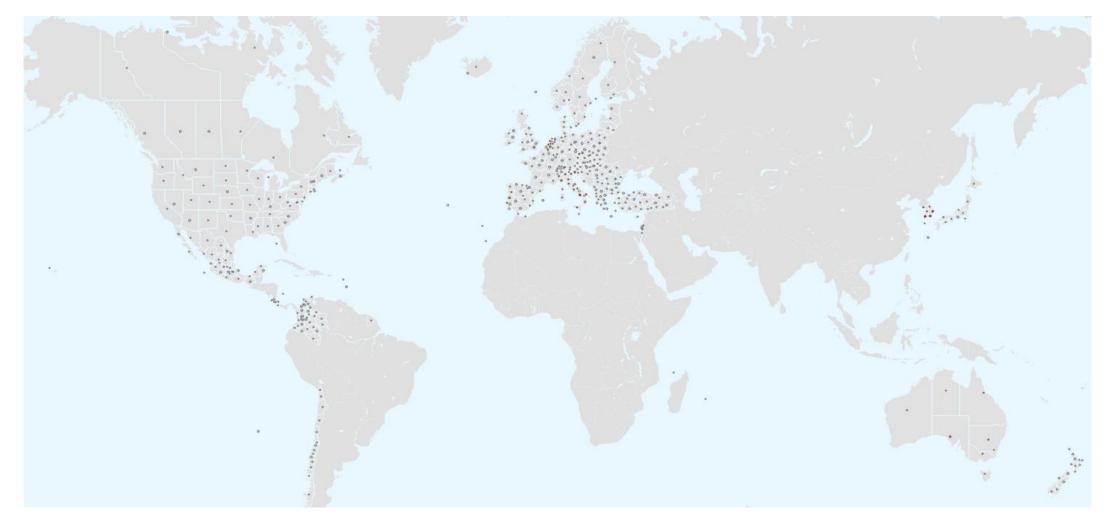
of Economic Statisticians

December 5, 2024



Sub-National Statistics Around the World





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Importance of National Statistics





White House and Congress to prepare budget estimates and projections

GDP and national statistics



Federal Reserve to set monetary policy

Wall Street to provide primary indicators of national economic activity

Business community to plan financial and investment strategies

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Importance of Sub-National Statistics





State and local statistics







U.S. government to distribute over \$600 billion in federal funds State governments to plan state spending, make revenue estimates, and track state economies Regional development officials to measure the impact of business investment on regional growth

Businesses and labor to research local market conditions



Expenditure Approach

GDP = Consumption + Investment + Government Spending + (Exports – Imports)

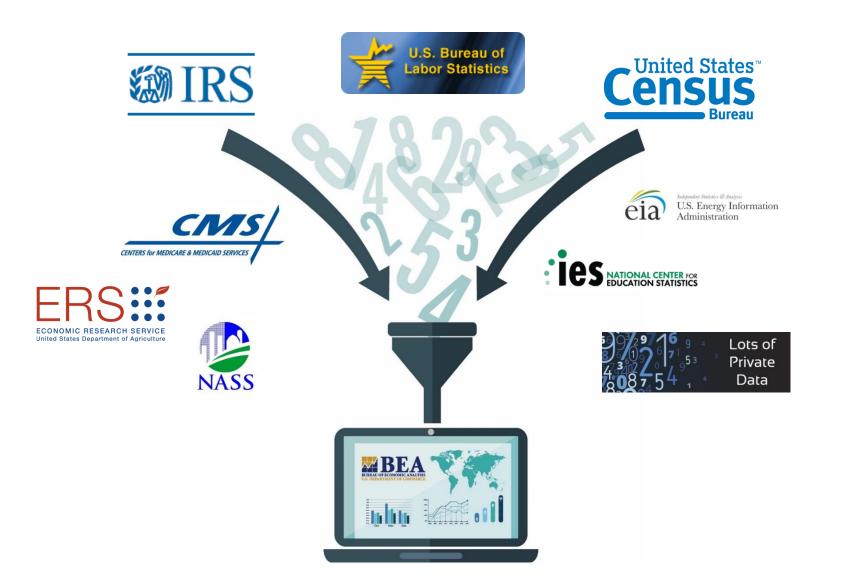
Income Approach

GDP = Compensation + Taxes on Production and Imports (less subsidies) + Gross Operating Surplus

Value-Added Approach

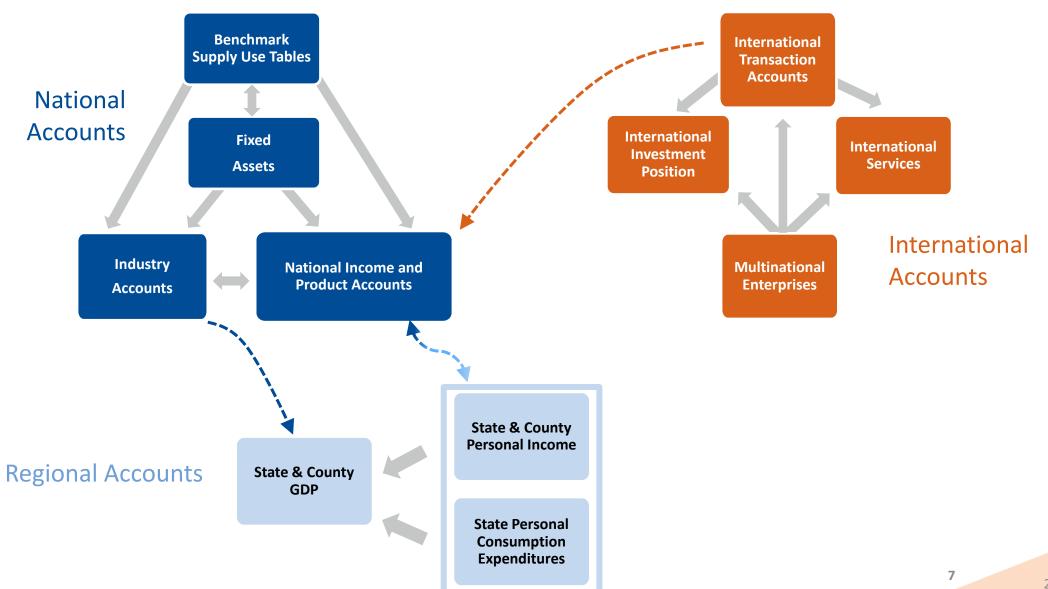
GDP = Total Industry Output – Intermediate Inputs





BEA's Structure



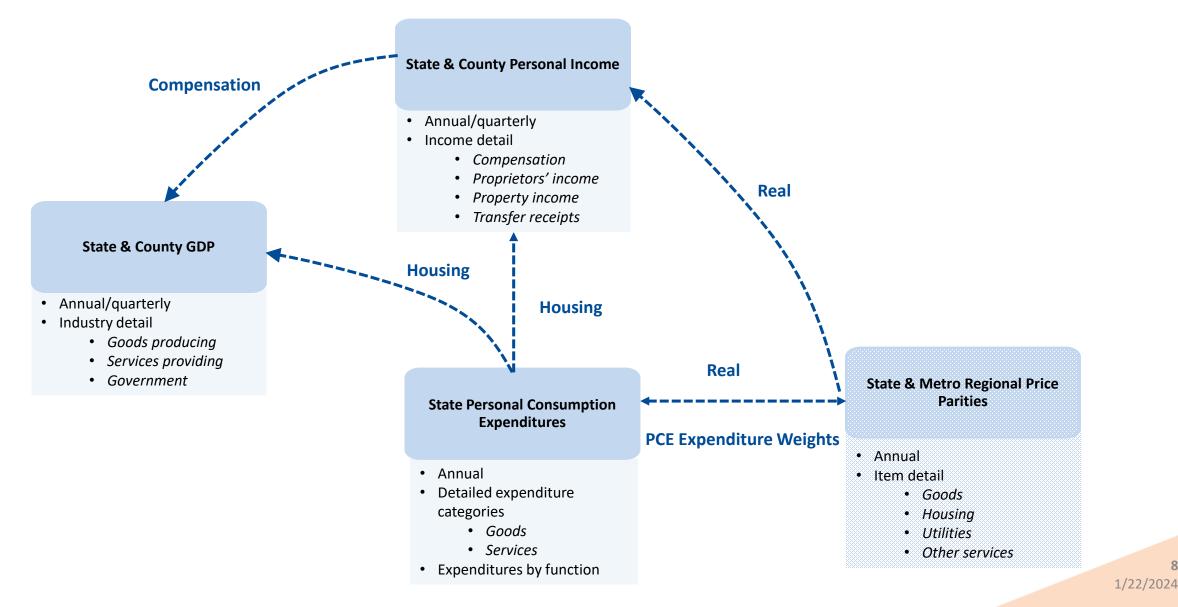


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BEA's Regional Economic Statistics



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Regional Accounts

The Core Statistics

✓ State and county gross domestic product (GDP)
✓ State and county personal income
✓ Consumer spending by state

Thematic Statistics

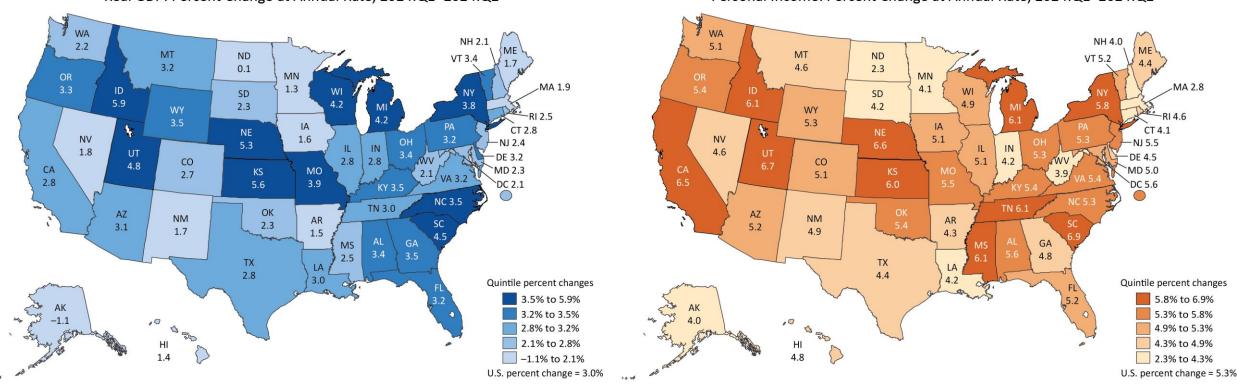
 Arts and culture by state
Outdoor recreation by state

Additional Statistics

- ✓ GDP for U.S. territories
- ✓ Geographic price level differences

GDP and Personal Income by State Statistics





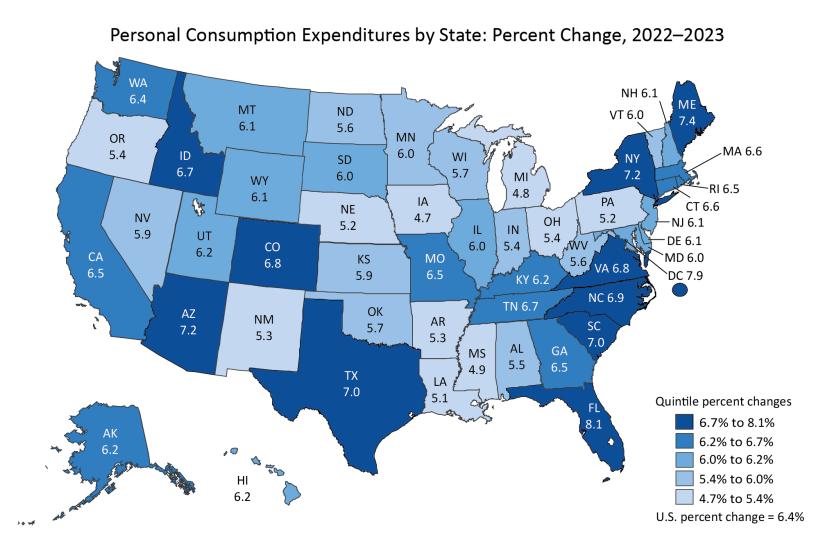
Real GDP: Percent Change at Annual Rate, 2024:Q1–2024:Q2

Personal Income: Percent Change at Annual Rate, 2024:Q1–2024:Q2

U.S. Bureau of Economic Analysis

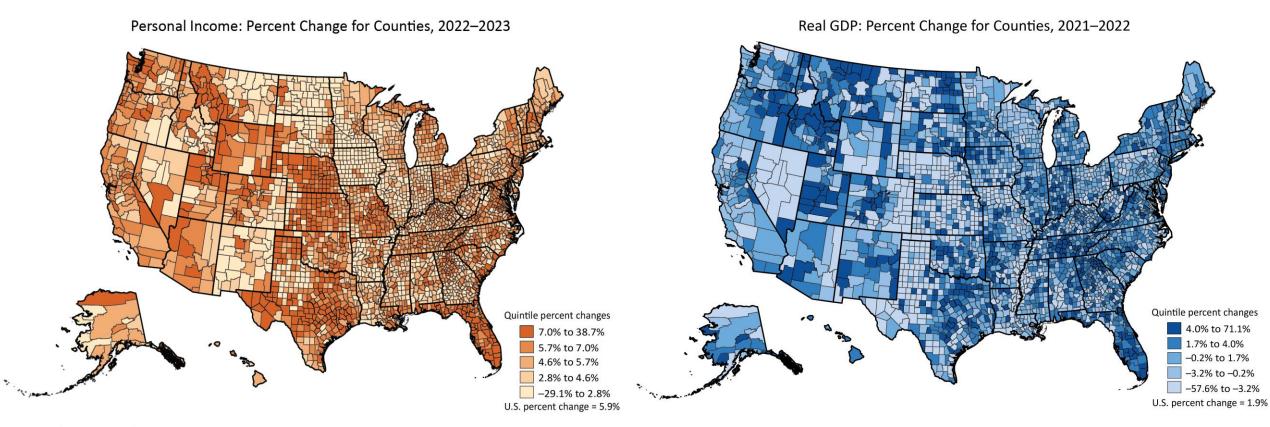
Personal Consumption Expenditures by State Statistics









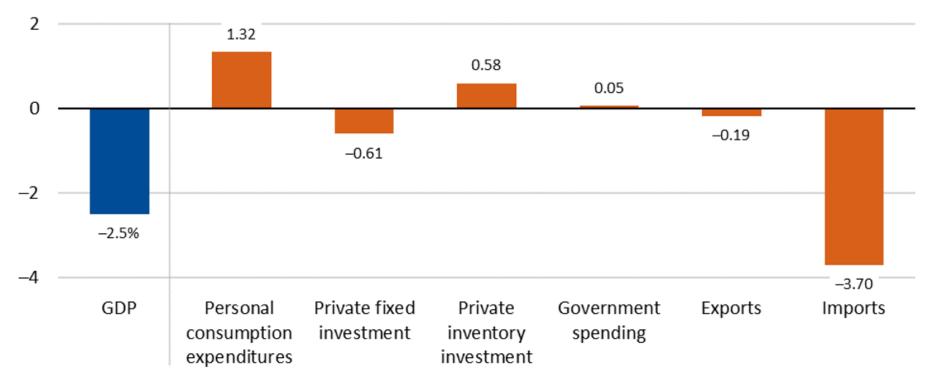


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Chart 1. Puerto Rico: Contributions to the Percent Change in Real GDP, 2022

Percentage points



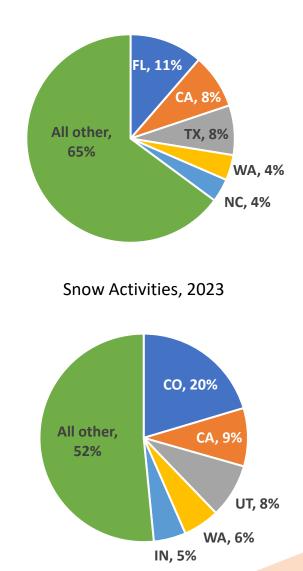
Note. The chart shows the percent change of total real GDP and the contributions (in percentage points) of each major component to that change. For example, exports accounted for -0.19 percentage point of the 2.5 percent decrease in real GDP in 2022. Imports are a subtraction item; thus, an increase in imports results in a negative contribution to GDP.

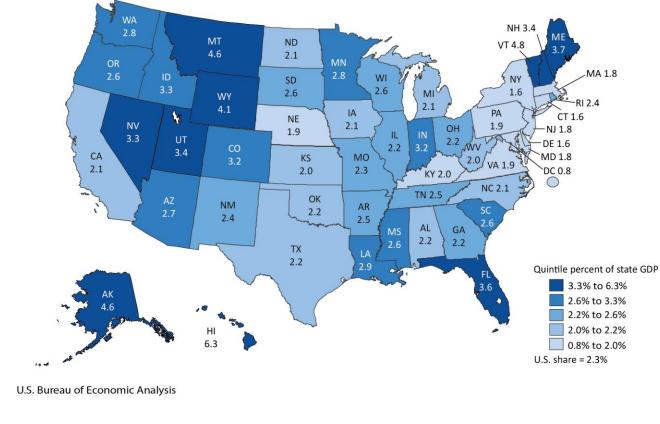
GDP Gross domestic product

Thematic Account: Outdoor Recreation by State



Boating and Fishing, 2023

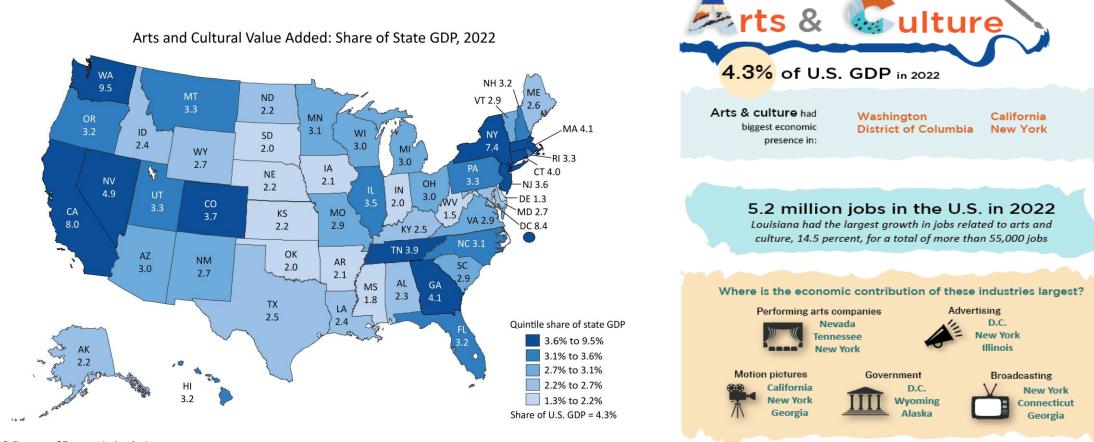




State Outdoor Recreation Value Added as a Percent of State GDP, 2023

Thematic Account: Arts and Cultural Production by State





U.S. Bureau of Economic Analysis



Industry economic presence in states and D.C. is measured by value added in 2022. bea.gov/data/special-topics/arts-and-culture

Regional Price Parities



District of Columbia 112.8 California 112.5 110.8 Hawaii Washington 109.8 Massachusetts 109.4 New Jersey 108.8 New Hampshire 107.6 New York 107.6 Oregon 106.6 Connecticut 106.4 Maryland 105.0 Rhode Island 104.7 Colorado 102.3 Florida 102.1 Virginia 102.1 102.0 Alaska Illinois 101.3 Vermont 101.1 Maine 100.8 Arizona 99.9 Delaware 98.0 97.7 Minnesota Texas 97.5 Nevada 96.4 Pennsylvania 96.2 Georgia 95.8 Utah 94.5 North Carolina 94.2 South Carolina 93.6 Michigan 93.4 💻 Wisconsin 92.3 🗖 Wyoming 91.9 🔳 Idaho 91.8 Indiana 91.8 Tennessee 91.8 Ohio 91.4 🔳 Missouri 91.1 New Mexico 91.0 Louisiana 90.6 Montana 90.3 Kansas 90.0 Nebraska 89.8 Kentucky 89.4 West Virginia 89.2 Oklahoma 88.8 North Dakota 88.7 Iowa 88.4 South Dakota 88.0 Alabama 87.8 Mississippi 87.3 Arkansas 86.6 85 90 95 105 110 100 115

Regional Price Parities for States, 2022 (U.S. = 100)



Availability of data and data privacy

o Problematic for small geographies

• Trade across sub-national geographies

o Difficult to measure trade in services

• Place of residence vs place of production Impact of movement of individuals and per capita measures

• Treatment of special geographies like territories

 $_{\odot}$ Included or not included



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