



"In Order That They Might Rest Their Arguments on Facts": The Vital Role of Government-Collected Data



"If gentlemen have any doubts with respect to [this information's] utility, I cannot satisfy them in a better manner, than by referring them to the debates which took place upon the bills intended collaterally to benefit the agricultural, commercial, and manufacturing parts of the community. Did they not wish then to know the relative proportion of each, and the exact number of every division, **in order that they** might rest their arguments on facts, instead of assertions and conjectures?"

- James Madison, speaking on February 2, 1790

Government data collection

- Rigorous, carefully crafted procedures
- Political independence
- Security and confidentiality





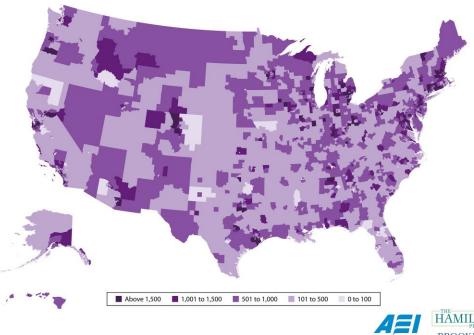
- Importance of government-collected data for:
 - Businesses
 - Policy Makers
 - Families





American Community Survey

FIGURE 1. Number of Engineers

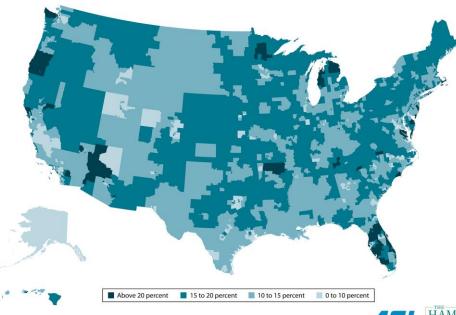


- High-quality local data can be difficult to obtain
- The American Community Survey ٠ fills this gap
- Firms deciding on locations, ٠ product mix, and advertising draw on ACS information

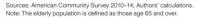


American Community Survey

FIGURE 2. Elderly Share of Population



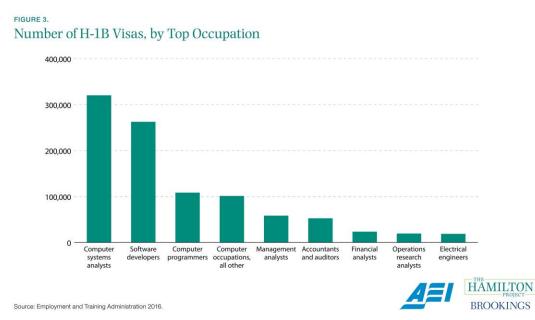
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H-1B visas



- U.S. participates in a global market for both goods and labor
- H-1B visas are an important tool for firms that seek skilled labor that is difficult or impossible to find in the U.S.
- Computer systems analysts and software developers are particularly sought after

International trade

FIGURE 4. U.S. Imports and Exports, 1947-2016



- Role of trade in U.S. economy has ٠ increased
- Indicator of health of economy ٠ for businesses
- Helpful to firms seeking to ٠ understand the international environment in specific sectors

Energy economics

FIGURE 5. U.S. Energy Imports and Exports, 1949–2050 (projected)



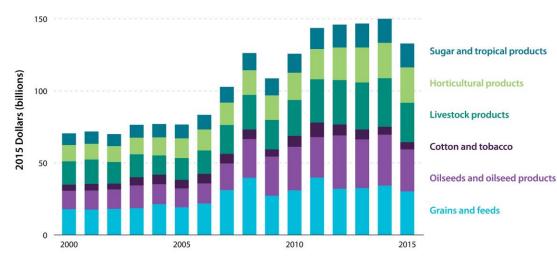
- **Energy Information Administration** ٠ provides important energy data and projections
- Recent innovations have narrowed • U.S. energy trade deficit
- Energy companies use EIA market ٠ data regularly



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The agricultural economy

FIGURE 6. U.S. Agricultural Exports, 2000–15



Sources: Economic Research Service (USDA) 2000–15 using data from the Department of Commerce, Census Bureau, Foreign Trade Database.

- USDA's Economic Research Service collects valuable agricultural data
- Agriculture production continues to rise
 - Many U.S. firms produce or rely on agricultural products





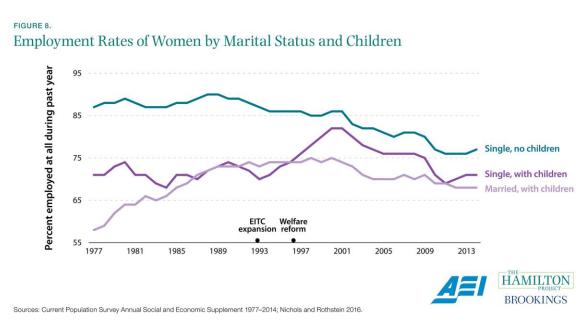


The labor market



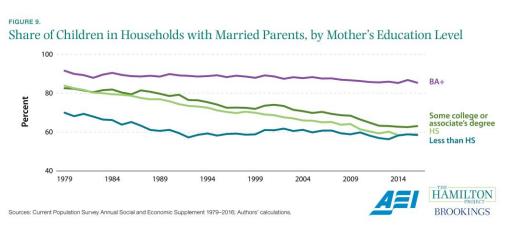
- Current Population Survey provides measures of unemployment
- BLS explores under-employment through a variety of related measures
- State governments, researchers, and businesses rely heavily on the CPS
 - Return to education
 - Well-being of military veterans
 - Rate of occupational licensure

Policy evaluation



- Current Population Survey also allows researchers to study impact of policy changes
- March Supplement provides valuable data on family characteristics
- Pairing CPS data with administrative data improves accuracy

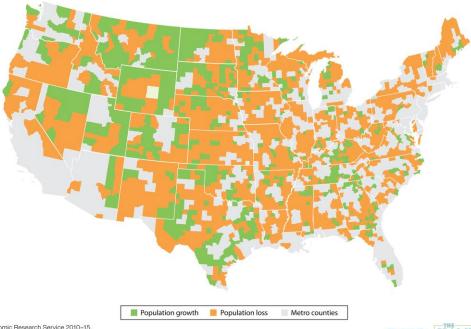




- CPS March supplement also allows researchers to study social trends in detail
- Declining share of children growing up in a married-parent household unique to less-educated
- Important policy implications for education and poverty

Rural population

FIGURE 12. Change in Rural Population, 2010–15



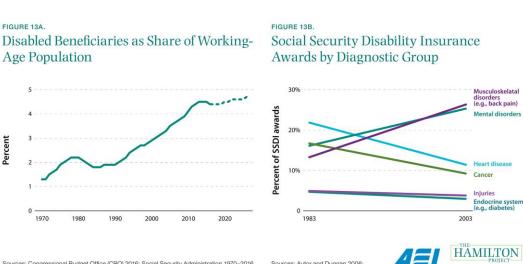
- Detailed migration data at local level
- Effects of migration and productivity in rural areas
- Implications for state and local policy

#GovData

Source: Economic Research Service 2010–15. Note: Rural areas are defined as nonmetro areas using 2013 rural–urban continuum codes



Disability insurance



Sources: Congressional Budget Office (CBO) 2016; Social Security Administration 1970-2016 Note: The dashed line indicates projections for 2017 to 2026.

Sources: Autor and Duggan 2006 Social Security Administration 2003



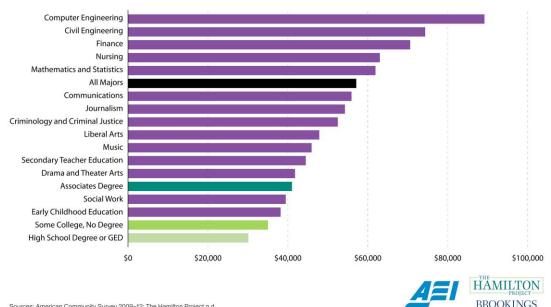
- Administrative government data play an increasingly important role
 - Useful for evaluating performance of government programs
 - Complementary to survey data
- The Social Security Office of the Actuary provides data on disability insurance receipt, by type of diagnosis
- Loosening of the eligibility criteria led to increases in the DI rolls

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Families

Earnings by college major

FIGURE 15. Median Salary in 10th Year of Career. by Major

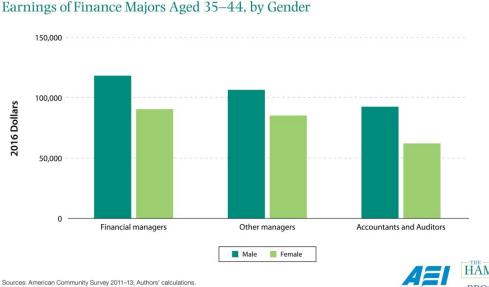


- Families consult tools based on government data to make decisions about college
- Computer engineering majors ٠ earn more than twice what drama and theater arts majors earn at 10 years after graduation
- Large sample size provides detailed data

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Sources: American Community Survey 2009-12; The Hamilton Project n.d.

Earnings differences across occupations



- User-friendly career tools draw on ACS data
- Large samples allow finegrained analysis
- Differences by occupation and • gender

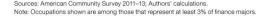
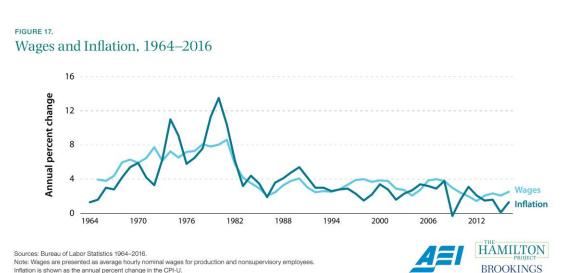


FIGURE 16.





Inflation and wages



- Consumer Price Index is continuously studied and improved
- Families feel the effects of costof-living increases relative to wages
- Implications for retirement benefits and wage contracts

Moving forward

Opportunities to strengthen data:

- Coverage of more topics
- Linked survey and administrative data
- Data synchronization





