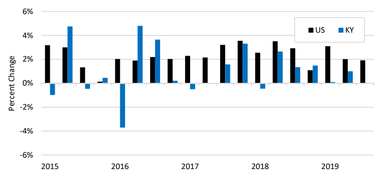
50 ECONOMIC FACTS AND FIGURES ABOUT KENTUCKY, 2020

CENTER FOR BUSINESS AND ECONOMIC RESEARCH • GATTON COLLEGE OF BUSINESS AND ECONOMICS • UNIVERSITY OF KENTUCKY

1. Gross Domestic Product

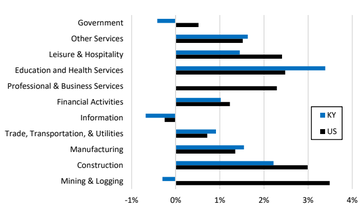
Percent Change in Real GDP, Kentucky & the U.S.
(Annual Rates)



Source: U.S. Bureau of Economic Analysis.
Note: GDP for 2019 Q2 is the most recent available for Kentucky.

2. Employment Change

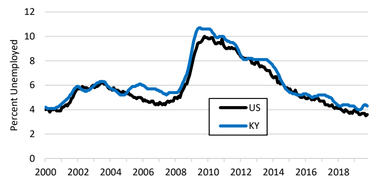
Percent Change in Employment 2019, Kentucky & the U.S.



Source: U.S. Bureau of Labor Statistics, Current Employment Statistics.
Note: Figures represents the percent change in average employment during the first 10 months of 2019 from the first 10 months of 2018.

3. Unemployment Rate

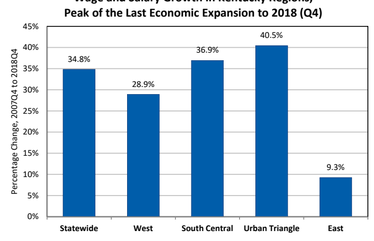
Unemployment Rate, Kentucky & the U.S.
(seasonally adjusted)



Source: U.S. Bureau of Labor Statistics, Local Area Unemployment Statistics.

4. Regional Wage & Salary Change

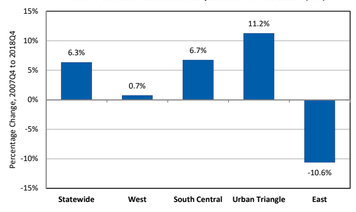
Wage and Salary Growth in Kentucky Regions, Peak of the Last Economic Expansion to 2018 (Q4)



Source: Author's calculations using data from the Bureau of Labor Statistics, Quarterly Census of Employment and Wages (private, all industries, all sizes). See glossary for map of Kentucky regions by county.

5. Regional Employment Change

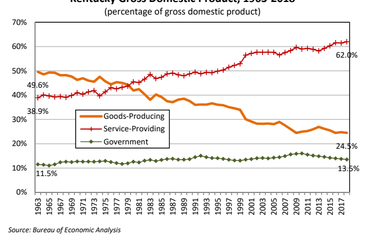
Employment Growth in Kentucky Regions, Peak of the Last Economic Expansion to the 2018 (Q4)



Source: Author's calculations using data from the Bureau of Labor Statistics, Quarterly Census of Employment and Wages (private, all industries, all sizes). See glossary for map of Kentucky regions by county.

6. Shift to Services

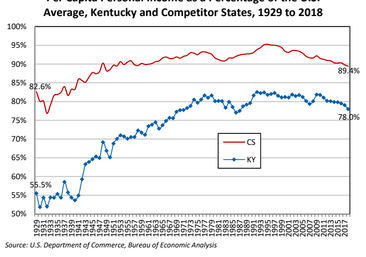
Goods, Services, and Government, Kentucky Gross Domestic Product, 1963-2018
(percentage of gross domestic product)



Source: Bureau of Economic Analysis

7. Per Capita Personal Income

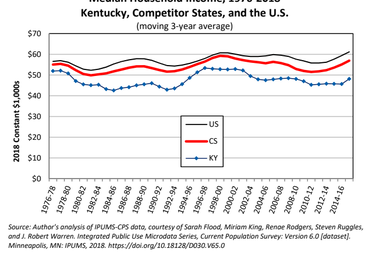
Per Capita Personal Income as a Percentage of the U.S. Average, Kentucky and Competitor States, 1929 to 2018



Source: U.S. Department of Commerce, Bureau of Economic Analysis

8. Household Income

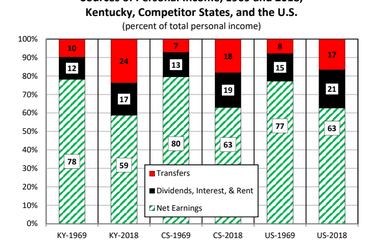
Median Household Income, 1976-2018
Kentucky, Competitor States, and the U.S.
(moving 3-year average)



Source: Author's analysis of IPUMS-CPS data, courtesy of Sarah Flood, Miriam King, Renae Rodgers, Steven Ruggles, and J. Robert Warren. Integrated Public Use Microdata Series, Current Population Survey: Version 6.0 [dataset]. Minneapolis, MN: IPUMS, 2018. https://doi.org/10.18128/D030.V65.0

9. Sources of Personal Income

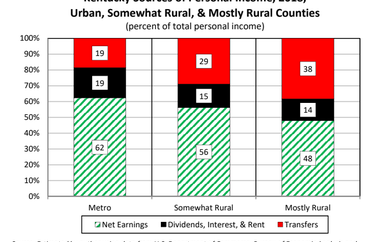
Sources of Personal Income, 1969 and 2018, Kentucky, Competitor States, and the U.S.
(percent of total personal income)



Source: U.S. Department of Commerce, Bureau of Economic Analysis

10. Income by Location

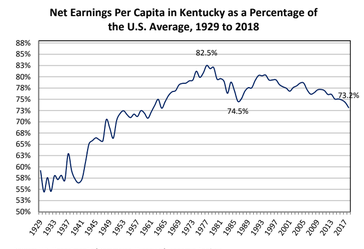
Kentucky Sources of Personal Income, 2018, Urban, Somewhat Rural, & Mostly Rural Counties
(percent of total personal income)



Source: Estimated by author using data from U.S. Department of Commerce, Bureau of Economic Analysis and USDA Rural Urban Codes.

11. Net Earnings Per Capita

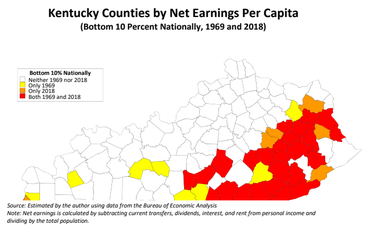
Net Earnings Per Capita in Kentucky as a Percentage of the U.S. Average, 1929 to 2018



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

12. Net Earnings by County

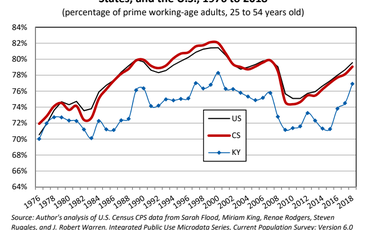
Kentucky Counties by Net Earnings Per Capita
(Bottom 10 Percent Nationally, 1969 and 2018)



Source: Estimated by the author using data from the Bureau of Economic Analysis.
Note: Net earnings is calculated by subtracting current transfers, dividends, interest, and rent from personal income and dividing by the total population.

13. Employment-Population Ratio

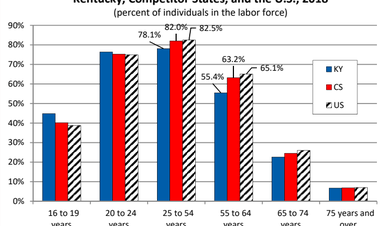
Employment-Population Ratio, Kentucky, Competitor States, and the U.S., 1976 to 2018
(percentage of prime working-age adults, 25 to 54 years old)



Source: Author's analysis of U.S. Census CPS data from Sarah Flood, Miriam King, Renae Rodgers, Steven Ruggles, and J. Robert Warren. Integrated Public Use Microdata Series, Current Population Survey: Version 6.0 [CPS Basic Monthly]. Minneapolis, MN: IPUMS, 2018. https://doi.org/10.18128/D030.V6.0

14. Labor Force Participation

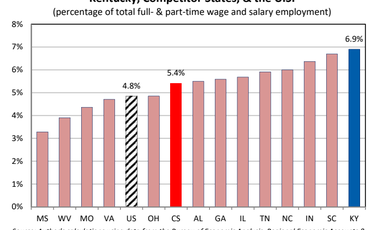
Labor Force Participation by Various Age Groups, Kentucky, Competitor States, and the U.S., 2018
(percent of individuals in the labor force)



Source: 2018 American Community Survey 1-Year Estimate

15. Foreign Employment

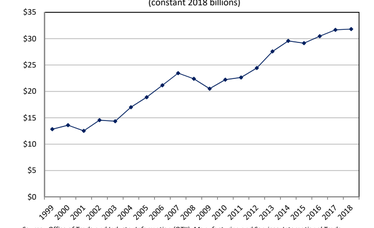
Employment of Majority-Owned U.S. Affiliates, 2017, Kentucky, Competitor States, & the U.S.
(percentage of total full- & part-time wage and salary employment)



Source: Author's calculations using data from the Bureau of Economic Analysis, Regional Economic Accounts & International Data.
Note: CS is a weighted average of the competitor states

16. Exports

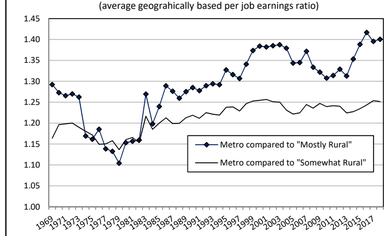
Kentucky Exports of Goods, 1999-2018
(constant 2018 billions)



Source: Office of Trade and Industry Information (OTII), Manufacturing and Services, International Trade Administration, U.S. Department of Commerce.

17. Earnings Gap

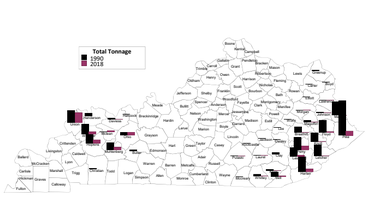
Kentucky's Urban-Rural Earnings Gap, 1969-2018
(average geographically based per job earnings ratio)



Source: Bureau of Economic Analysis, CA30, Economic Profile
Note: Author estimate by taking ratio between Urban-Rural Continuum Codes 9-8-7 (mostly rural), 6-5-4 (somewhat rural), and 3-2-1 (metro).

18. Coal Production

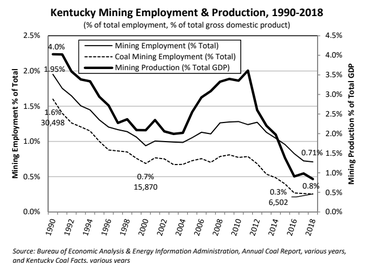
Kentucky Coal Production, by County, 1990 and 2018



Source: Kentucky Coal Facts, 2nd Edition & Kentucky Quarterly Coal Report, (Q4 2018), available at energy.ky.gov

19. Mining & Coal

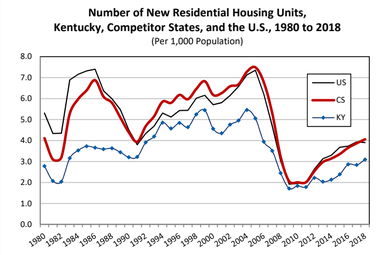
Kentucky Mining Employment & Production, 1990-2018
(% of total employment, % of total gross domestic product)



Source: Bureau of Economic Analysis & Energy Information Administration, Annual Coal Report, various years, and Kentucky Coal Facts, various years

20. Housing Starts

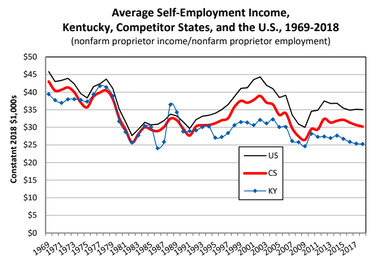
Number of New Residential Housing Units, Kentucky, Competitor States, and the U.S., 1980 to 2018
(Per 1,000 Population)



Source: U.S. Census Bureau

21. Entrepreneurial Depth

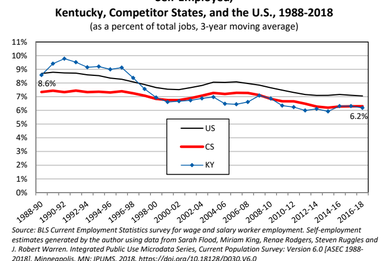
Average Self-Employment Income, Kentucky, Competitor States, and the U.S., 1969-2018
(nonfarm proprietor income/nonfarm proprietor employment)



Source: U.S. Department of Commerce, Bureau of Economic Analysis

22. Entrepreneurial Breadth

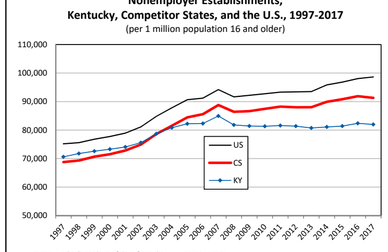
Self-Employed, Kentucky, Competitor States, and the U.S., 1988-2018
(as a percent of total jobs, 3-year moving average)



Source: BLS Current Employment Statistics survey for wage and salary worker employment. Self-employment estimates generated by the author using data from Sarah Flood, Miriam King, Renae Rodgers, Steven Ruggles and J. Robert Warren. Integrated Public Use Microdata Series, Current Population Survey: Version 6.0 [ASEC 1988-2018]. Minneapolis, MN: IPUMS, 2018. https://doi.org/10.18128/D030.V6.0

23. Nonemployer Establishments

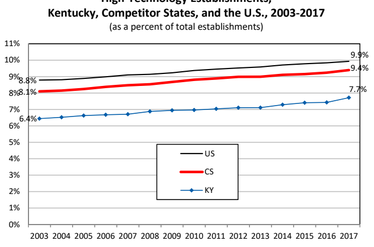
Nonemployer Establishments, Kentucky, Competitor States, and the U.S., 1997-2017
(per 1 million population 16 and older)



Source: Author's analysis of data from the U.S. Census Bureau

24. High-Tech Establishments

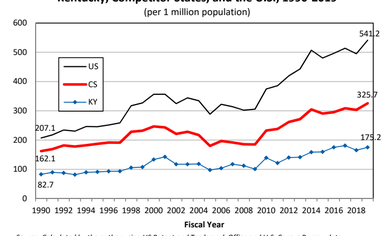
High-Technology Establishments, Kentucky, Competitor States, and the U.S., 2003-2017
(as a percent of total establishments)



Source: Author's analysis of County Business Patterns, U.S. Census Bureau, various years

25. Patents

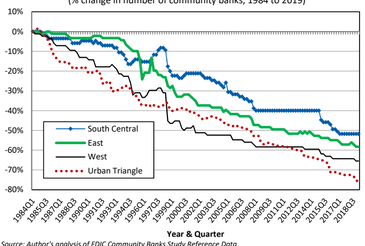
Number of Patents, Kentucky, Competitor States, and the U.S., 1990-2019
(per 1 million population)



Source: Calculated by the author using US Patent and Trademark Office and U.S. Census Bureau data.
Note: Data include utility, design, plant, and reissue patents.

26. Community Banks

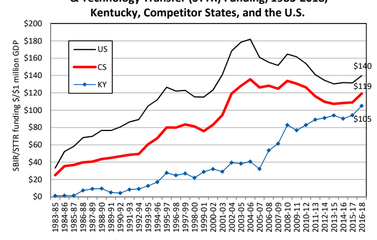
Community Banks in Kentucky, by Region
(% change in number of community banks, 1984 to 2019)



Source: Author's analysis of FDIC Community Banks Study Reference Data

27. SBIR/STTR

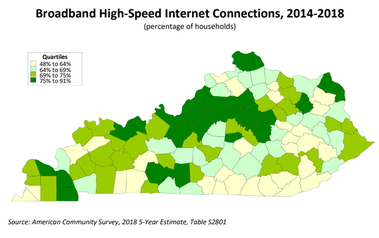
Small Business Innovation Research (SBIR) & Technology Transfer (STTR) Funding, 1983-2018, Kentucky, Competitor States, and the U.S.



Source: Author's analysis of SBIR/STTR data

28. Broadband Access

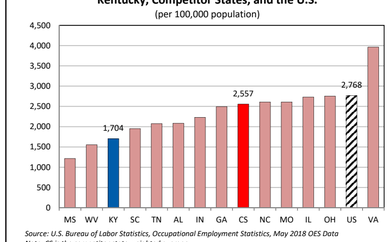
Broadband High-Speed Internet Connections, 2014-2018
(percentage of households)



Source: American Community Survey, 2018 5-Year Estimate, Table S2801

29. Stem Jobs

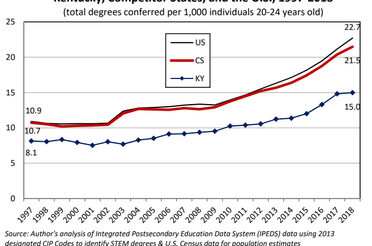
STEM Jobs in 2018 Kentucky, Competitor States, and the U.S.
(per 100,000 population)



Source: U.S. Bureau of Labor Statistics, Occupational Employment Statistics, May 2018 OES Data
Note: CS is the competitor state weighted average

30. STEM Graduates

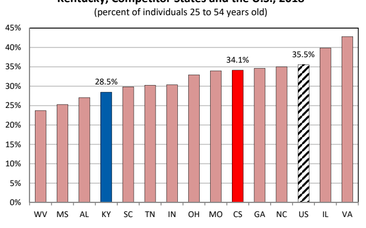
STEM-Designated Bachelor's Degrees Awarded, Kentucky, Competitor States, and the U.S., 1997-2018
(total degrees conferred per 1,000 individuals 20-24 years old)



Source: Author's analysis of Integrated Postsecondary Education Data System (IPEDS) data using 2013 designated CIP Codes to identify STEM degrees & U.S. Census data for population estimates

31. College Attainment

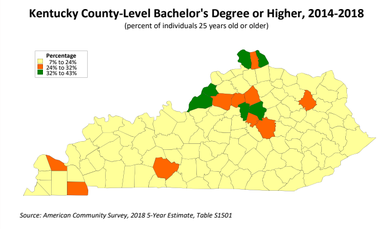
Bachelor's Degree or Higher, Kentucky, Competitor States and the U.S., 2018
(percent of individuals 25 to 54 years old)



Source: Estimated from 2018 American Community Survey 1-Year PUMS
Note: CS is the weighted average of the competitor states.

32. College Attainment by County

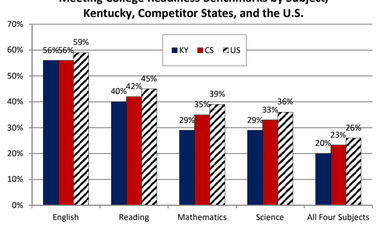
Kentucky County-Level Bachelor's Degree or Higher, 2014-2018
(percent of individuals 25 years old or older)



Source: American Community Survey, 2018 5-Year Estimate, Table S1501

33. College & Career Readiness

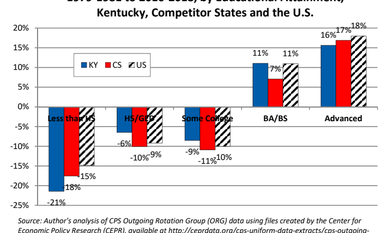
Percent of 2019 ACT-Tested High School Graduates Meeting College Readiness Benchmarks by Subject, Kentucky, Competitor States, and the U.S.



Source: The Condition of College & Career Readiness, 2019, various state reports, ACT, Inc.

34. Wages & Education

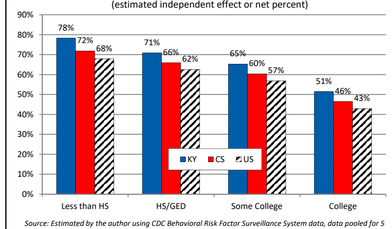
Cumulative Change in Median Real Hourly Wages, 1979-1981 to 2016-2018, by Educational Attainment, Kentucky, Competitor States and the U.S.



Source: Author's analysis of CPS Outgoing Rotation Group (ORG) data using files created by the Center for Economic Policy Research (CEPR), available at http://ceprdata.org/cps-uniform-data-extracts/cps-outgoing-rotation-group/.

35. Education & Health

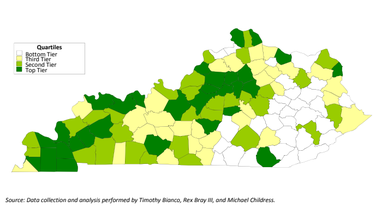
Estimated Chronic Disease Risk Behaviors by Education, Kentucky, Competitor States, and the U.S., 2014-2018
(estimated independent effect or net percent)



Source: Estimated by the author using CDC Behavioral Risk Factor Surveillance System data, data pooled for 5 years, 2014 to 2018

36. Factors Affecting Health

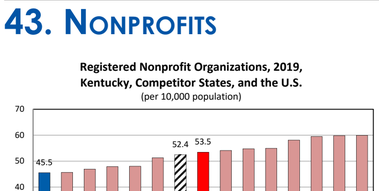
Social Determinants of Health by Kentucky County



Source: Data collection and analysis performed by Timothy Bianco, Rex Bray III, and Michael Childress.

37. Wage Changes

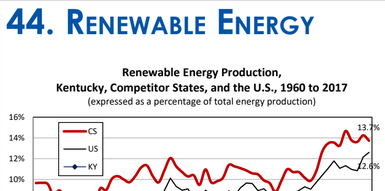
Cumulative Change in Average Real Hourly Wages, 1979 to 2018, Kentucky, Competitor States and the U.S.



Source: Author's analysis of CPS Outgoing Rotation Group (ORG) data using files created by the Center for Economic Policy Research (CEPR), available at http://ceprdata.org/cps-uniform-data-extracts/cps-outgoing-rotation-group/.

38. Income Distribution

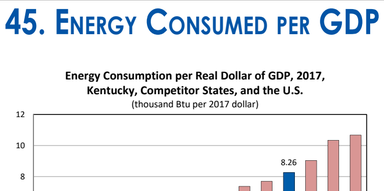
Changes in Household Income, by Income Level, 1976-78 to 2016-18, KY, Competitor States and the U.S.
(based three-year averages of 2018 dollars)



Source: Author's analysis of IPUMS-CPS data, courtesy of Sarah Flood, Miriam King, Renae Rodgers, Steven Ruggles, and J. Robert Warren. Integrated Public Use Microdata Series, Current Population Survey: Version 6.0 [ASEC various years]. Minneapolis, MN: IPUMS, 2018. https://doi.org/10.18128/D030.V65.0

39. Business Bankruptcies

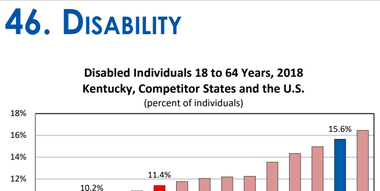
Business Bankruptcies, Kentucky, Competitor States, and the U.S., 2000-2018
(bankruptcies per 1,000 business establishments)



Source: Estimated from Administrative Office of the U.S. Courts data along with establishment data from the U.S. Census, County Business Patterns, various years. Note: 2018 data are estimated by using 2017 establishments and 2018 bankruptcies.

40. Poverty Rate

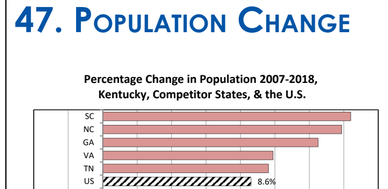
Poverty Rate 1976 to 2018, Kentucky, Competitor States, and the U.S.
(percent of individuals in poverty, 3-year average)



Source: Author's analysis of IPUMS-CPS data, Sarah Flood, Miriam King, Renae Rodgers, Steven Ruggles, and J. Robert Warren. Integrated Public Use Microdata Series, Current Population Survey: Version 6.0 [ASEC various years]. Minneapolis, MN: IPUMS, 2018. https://doi.org/10.18128/D030.V65.0

41. Poverty Rate by County

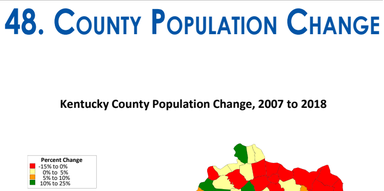
Kentucky County-Level Poverty Rates, 2014-2018



Source: American Community Survey, 2018 5-Year Estimate, Table S1701

42. Transfer Payments

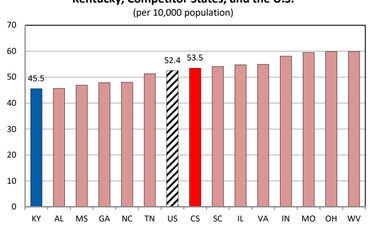
Transfer Payments by County, 2018
(as a percentage of total personal income)



Source: Bureau of Economic Analysis

43. Nonprofits

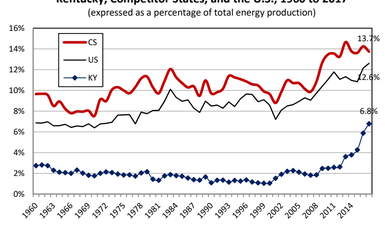
Registered Nonprofit Organizations, 2019, Kentucky, Competitor States, and the U.S.
(per 10,000 population)



Source: Internal Revenue Service, Exempt Organizations Business Master File (2019, October) & U.S. Census, 2018
Note: CS is the weighted average of the competitor states

44. Renewable Energy

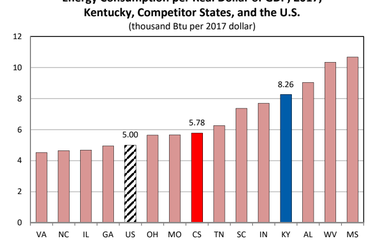
Renewable Energy Production, Kentucky, Competitor States, and the U.S., 1960 to 2017
(expressed as a percentage of total energy production)



Source: U.S. Energy Information Administration, State Energy Data Production, State Energy Data System (SEDS), 1960-2016 estimates, https://www.eia.gov/state/seds/

45. Energy Consumed per GDP

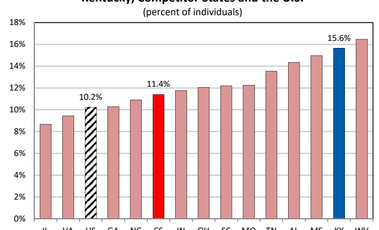
Energy Consumption per Real Dollar of GDP, 2017, Kentucky, Competitor States, and the U.S.
(thousand Btu per 2017 dollar)



Source: Calculated using data from the U.S. Energy Information Administration and Bureau of Economic Analysis

46. Disability

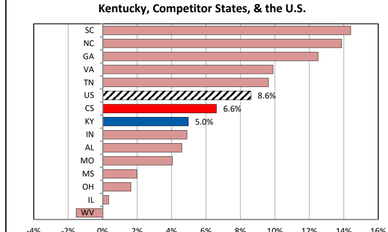
Disabled Individuals 18 to 64 Years, 2018 Kentucky, Competitor States and the U.S.
(percent of individuals)



Source: 2018 American Community Survey 1-Year Estimates

47. Population Change

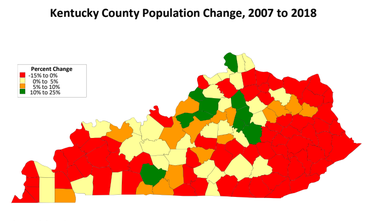
Percentage Change in Population 2007-2018, Kentucky, Competitor States, & the U.S.



Source: U.S. Census Bureau, ACS 1-year estimates

48. County Population Change

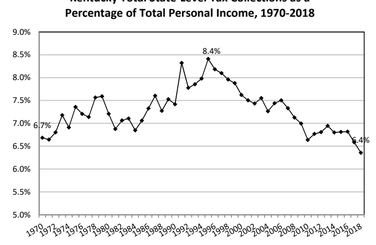
Kentucky County Population Change, 2007 to 2018



Source: U.S. Census Bureau

49. Tax Collections

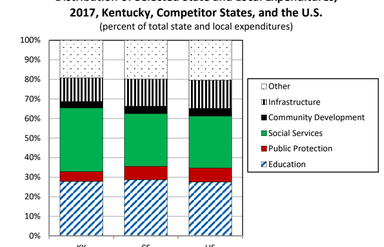
Kentucky Total State-Level Tax Collections as a Percentage of Total Personal Income, 1970-2018



Source: Author's calculations based on data from the U.S. Department of Commerce, Bureau of Economic Analysis and U.S. Census Bureau, State Government Tax Collections, various years

50. Government Expenditures

Distribution of Selected State and Local Expenditures, 2017, Kentucky, Competitor States, and the U.S.
(percent of total state and local expenditures)



Source: U.S. Census Bureau, 2017 Annual Surveys of State and Local Government Finances

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