A Profile of Socioeconomic Measures

Selected Geographies: Jefferson County WI

Benchmark Geographies: United States

Produced by Economic Profile System-Human Dimensions Toolkit EPS-HDT July 23, 2012

About EPS-HDT

About the Economic Profile System-Human Dimensions Toolkit (EPS-HDT)

EPS-HDT is a free, easy-to-use software application that produces detailed socioeconomic reports of counties, states, and regions, including custom aggregations.

EPS-HDT uses published statistics from federal data sources, including Bureau of Economic Analysis and Bureau of the Census, U.S. Department of Commerce; and Bureau of Labor Statistics, U.S. Department of Labor.

The Bureau of Land Management and Forest Service have made significant financial and intellectual contributions to the operation and content of EPS-HDT.

See www.headwaterseconomics.org/eps-hdt for more information about the other tools and capabilities of EPS-HDT.

For technical questions, contact Ray Rasker at eps-hdt@headwaterseconomics.org, or 406-570-7044.



Headwaters Economics is an independent, nonprofit research group. Our mission is to improve community development and land management decisions in the West.



www.blm.gov

The Bureau of Land Management, an agency within the U.S. Department of the Interior, administers 249.8 million acres of America's public lands, located primarily in 12 Western States. It is the mission of the Bureau of Land Management to sustain the health, diversity, and productivity of the public lands for the use and enjoyment of present and future generations.



The Forest Service, an agency of the U.S. Department of Agriculture, administers national forests and grasslands encompassing 193 million acres. The Forest Service's mission is to achieve quality land management under the "sustainable multiple-use management concept" to meet the diverse needs of people while protecting the resource. Significant intellectual, conceptual, and content contributions were provided by the following individuals: Dr. Pat Reed, Dr. Jessica Montag, Doug Smith, M.S., Fred Clark, M.S., Dr. Susan A. Winter, and Dr. Ashley Goldhor-Wilcock.

About EPS-HDT

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Note to Users:

This report is one of fourteen reports that can be produced with the EPS-HDT software. You may want to run another EPS-HDT report for either a different geography or topic. Topics include land use, demographics, specific industry sectors, the role of non-labor income, the wildland-urban interface, the role of amenities in economic development, and payments to county governments from federal lands. For further information and to download the free software, go to: www.headwaterseconomics.org/eps-hdt.

This report contains color-coded text. **BLUE TEXT** describes data in figures specific to selected geographies. Blue text appears on report pages next to or below figures. **BLACK TEXT** describes what is being measured and data sources used. Black text appears at the top of study guide pages under the heading "What do we measure on this page?" **RED TEXT** explains methodologies and the importance of the information. Red text appears in the middle of study guide pages under the headings "Why is this important?" and "Methods." **GREEN TEXT** lists additional resources that help with interpretation of the information. Green text appears at the bottom of study guide pages under the heading "Additional Resources."

The EPS-HDT software also allows the user to "push" the tables, figures, and interpretive text from a report to a Word document. At that point, you can keep some text (most often blue and black text) and delete other text (most often red and green text). Blue text can serve as a starting point for additional description and interpretation of data unique to specific geographies.

How have population, employment, and personal income changed?

This page describes trends in population, employment, and real personal income. If this report is for an individual county, it also shows the county (metropolitan, micropolitan, or rural) classification.

According to the U.S. Census Bureau, Jefferson County WI is designated as a Central Micropolitan Statistical Area.

Total Population, Employment, & Real Personal Income Trends, 1970-2010

	1970	1980	1990	2000	2010	Change 2000- 2010
Population	60,230	66,337	67,987	76,053	83,700	7,647
Employment (full and part-time jobs)	26,969	33,634	37,902	47,087	48,144	1,057
Personal Income (thousands of 2011\$s)	1,339,002	1,704,995	1,964,587	2,839,280	3,006,757	167,478

Population and personal income are reported by place of residence, and employment by place of work on this page.

• From 1970 to 2010, population grew from 60,230 to 83,700 people, a 39% increase.





 • From 1970 to 2010, employment grew from 26,969 to 48,144 jobs, a 79% increase.



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 \$3,500

 llion to \$3,006.8
 \$3,000

 a 125% increase.
 \$2,500

 \$2,000
 \$1,500

 \$1,000
 \$500

\$0

• From 1970 to 2010, personal income grew from \$1,339.0 million to \$3,006.8 million (in real terms), a 125% increase.

Data Sources: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA30.

How have population, employment, and personal income changed?

What do we measure on this page?

This page describes trends in population, employment, and real personal income. If this report is for an individual county, it also shows the county (urban-rural) classification.

Population: The total number of people by place of residence.

Employment: All full and part-time workers, wage and salary jobs (employees), and proprietors (the self-employed) reported by place of work.

Personal Income: Income from wage and salary employment and proprietors' income (labor earnings), as well as non-labor income sources (dividends, interest, and rent, and transfer payments) reported by place of residence. All income figures in this report are shown in real terms (i.e., adjusted for inflation). Subsequent sections of this report define labor earnings and non-labor income in more detail.

<u>Metropolitan Statistical Areas</u>: Counties that have at least one urbanized area of 50,000 or more population, plus adjacent territory that has a high degree of social and economic integration with the core as measured by commuting ties. Metropolitan Statistical Areas are classified as either Central or Outlying.

Micropolitan Statistical Areas: Counties that have at least one urban cluster of at least 10,000 but less than 50,000 population, plus adjacent territory that has a high degree of social and economic integration with the core as measured by commuting ties. Micropolitan Statistical Areas are classified as either Central or Outlying.

Rural: Counties that are not designated as either Metropolitan or Micropolitan.

Why is it important?

Long-term, steady growth of population, employment, and real personal income is generally an indication of a healthy, prosperous economy. Erratic growth, nogrowth, or long-term decline in these indicators are generally an indication of a struggling economy.

Growth can benefit the general population of a place, especially by providing economic opportunities, but it can also stress communities, and lead to income stratification. When considering the benefits of growth, it is important to distinguish between standard of living (such as earnings per job and per capita income) and quality of life (such as leisure time, crime rate, and sense of well-being).

A related indicator of economic performance is whether the local economy is negatively affected by periods of national recession. This issue is explored in depth in the section "Do national recessions affect local employment?" later in this report.

The size of a population and economy (metropolitan, micropolitan, and rural) can have an important bearing on the types of economic activities present as well as opportunities and challenges for area businesses.

Additional Resources

In addition to U.S. Census Bureau county classifications offered here, a number of other county classification systems are available:

The Bureau of Economic Analysis offers a way to classify all counties in the country into "BEA Economic Areas." These are counties clustered around "nodes" of metropolitan or micropolitan areas. Maps of BEA Economic Areas can be seen at: http://www.bea.gov/regional/docs/econlist.cfm; the methods are available at: http://www.bea.gov/SCB/PDF/2004/11November/1104Econ-Areas.pdf

The Economic Research Service of the U.S. Department of Agriculture offers a county classification system based on economic dependence on particular sectors (for example, "Farming-dependent," Mining-dependent"), economic activity ("Non-metro recreation"), and by policy type (for example, "Housing-stress," and "Persistent poverty"). Economic Research Service codes can be found at: http://www.ers.usda.gov/Briefing/Rurality/Typology. This web site also offers an alternative definition in the form of "Rural-Urban Continuum Codes."

Headwaters Economics has developed a "Three Wests" county typology for all counties in the 11 contiguous western U.S. states based on access to markets via highway or air travel. The following web site offers maps, a journal article on the subject, and an interactive tool that allows the user to compare a county to custom selected peers or benchmark; see: www.headwaterseconomics.org/3wests.php

Data Sources

U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA30.

How have the components of population changed?

This page describes various components of population change and total population growth (or decline). Total population growth (or decline) is the sum of natural change (births & deaths) and migration (international & domestic).

Components of Population Growth, 2000-2011

	Change 2000-
	2011
Population Growth (Natural Change & Net Migration)	5,868
Natural Change (Births & Deaths)	4,138
Births	10,485
Deaths	6,347
Net Migration (International & Domestic)	1,730
International Migration	1,036
Domestic Migration	694
•	

Percent of Population Growth, 2000-2011

Natural Change (Births & Deaths)	70.5%
Net Migration (International & Domestic)	29.5%
The Census Bureau makes a minor statistical correction	called a "residual " Because of this correction, natural change plus net migration may not add to

The Census Bureau makes a minor statistical correction, called a "residual." Because of this correction, natural change plus net migration may not add to total population change in the table and figure.



- From 2000 to 2011, population grew by 5,868 people, a 11% increase.
- From 2000 to 2011, natural change contributed to 71% of population growth.
- From 2000 to 2011, migration contributed to 30% of population growth.

Data Sources: U.S. Department of Commerce. 2012. Census Bureau, Population Division, Washington, D.C.

How have the components of population changed?

What do we measure on this page?

This page describes various components of population change and total population growth (or decline). Total population growth (or decline) is the sum of natural change (births & deaths) and migration (international & domestic).

Why is it important?

It is useful to understand the components of population change because it offers insight into the causes of growth or decline and it helps highlight important areas of inquiry. For example, if a large portion of population growth is from in-migration, it would be helpful to understand what the drivers are behind this trend, including whether people are moving to the area for jobs, quality of life, or both. If a large portion of population decline is from out-migration, it would similarly be important to understand the reasons, including the loss of employment in specific industries, youth leaving for education or new opportunities, and elderly people leaving for better medical facilities.

Methods

The Bureau of the Census makes a minor statistical correction, called a "residual." This is defined by the Bureau of the Census as resulting from "two parts of the estimates process: (1) the application of national population controls to state and county population estimates and (2) the incorporation of accepted challenges and special censuses into the population estimates. The residual represents change in the population that cannot be attributed to any specific demographic component of population change."

Additional Resources

For a glossary of terms used by the U.S. Census Bureau, see: http://www.census.gov/popest/topics/terms/states.html.

For methods used by the U.S. Census Bureau, see: http://www.census.gov/popest/topics/methodology/2008-stco-char-meth.pdf.

For terms used by the U.S. Census Bureau, see: http://www.census.gov/popest/topics/terms/states.html.

For more information on demographics, see the EPS-HDT Demographics report.

Data Sources

U.S. Department of Commerce. 2012. Census Bureau, Population Division, Washington, D.C.

How have the components of employment changed?

This page describes changes in two components of employment: wage and salary jobs, and proprietor jobs.

<u>Wage and Salary</u>: This is a measure of the average annual number of full-time and part-time jobs by place of work. All jobs for which wages and salaries are paid are counted. Full-time and part-time jobs are counted with equal weight.

<u>Proprietors</u>: This term includes the self-employed in farm and nonfarm sectors by place of work. Nonfarm self-employment consists of the number of sole proprietorships and the number of individual business partners not assumed to be limited partners. Farm self-employment is defined as the number of non-corporate farm operators, consisting of sole proprietors and partners.

Components of Employment Change, 1970-2010

	1970	1980	1990	2000	2010	-Change 2000 2010
Total Employment	26,969	33,634	37,902	47,087	48,144	1,057
Wage and salary jobs	21,398	27,323	31,434	37,775	34,793	-2,982
Number of proprietors	5,571	6,311	6,468	9,312	13,351	4,039
Percent of Total						% Change 2000- 2010
Total Employment						2.2%
Wage and salary jobs	79.3%	81.2%	82.9%	80.2%	72.3%	-7.9%
Number of proprietors	20.7%	18.8%	17.1%	19.8%	27.7%	43.4%
All amployment data in the table above ar	a reported by place of we	rk Includes full tim	a and part time w	orkoro		

All employment data in the table above are reported by *place of work*. Includes full-time and part-time workers.



- From 1970 to 2010, wage and salary employment (people who work for someone else) grew from 21,398 to 34,793, a 63% increase.
- From 1970 to 2010, proprietors (the selfemployed) grew from 5,571 to 13,351, a 140% increase.

Data Sources: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA30.

How have the components of employment changed?

What do we measure on this page?

This page describes the changes in two components of employment: wage and salary employment, and proprietors.

Wage and Salary: This is a measure of the average annual number of full-time and part-time jobs by place of work. All jobs for which wages and salaries are paid are counted. Full-time and part-time jobs are counted with equal weight.

<u>Proprietors</u>: This term includes the self-employed in nonfarm and farm sectors by place of work. Nonfarm self-employment consists of the number of sole proprietorships and the number of individual business partners not assumed to be limited partners. Farm self-employment is defined as the number of non-corporate farm operators, consisting of sole proprietors and partners.

Why is it important?

A high level of growth in proprietors' employment could be interpreted as a sign of entrepreneurial activity, which is a positive indicator of economic health. However, in some areas, particularly in remote rural areas, it is possible that a high proportion of self-employed is an indication that there are few jobs available. People may work for themselves because it is the only alternative and they may work for themselves in addition to holding a wage and salary job.

One way to see whether growth and a high-level of proprietors' employment is a positive sign for the local economy is to look at the long-term trends in proprietors' personal income. If proprietors' employment and real personal income are both rising, this is a healthy indicator of entrepreneurial activity. If, on the other hand, proprietors' employment is rising and real personal income is falling, this can be a sign of economic stress. The following section of this report examines this relationship.

Methods

For details on how the Bureau of Economic Analysis defines proprietors' employment, see: http://www.bea.gov/regional/definitions/nextpage.cfm?key=Proprietors%20employment.

Additional Resources

For a glossary of terms used by the Bureau of Economic Analysis, see: http://www.bea.gov/glossary/glossary.cfm.

For an example of an academic study where proprietors' employment is considered an indication of entrepreneurial activity, see: Mack, E., T.H. Grubesic and E. Kessler. 2007. "Indices of Industrial Diversity and Regional Economic Composition." Growth and Change. 38(3): 474-509.

For more information on farm employment and earnings, see the EPS-HDT Agriculture report.

Data Sources

U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA30.

How has the mix of wage and salary and proprietors income changed?

This page describes the components of labor earnings (in real terms): income from wage and salary, and proprietors' employment. It also looks more closely at proprietors, comparing long-term trends in proprietors' employment and personal income.

Components of Labor Earnings Change, 1970-2010 (Thousands of 2011 \$s)

	1970	1980	1990	2000	2010	-000 Change 2010
Earnings by place of work	967,180	1,191,903	1,369,498	1,940,425	1,918,827	-21,597
Wage & salary disbursements	728,495	887,509	1,014,490	1,361,264	1,272,223	-89,041
Supplements to wages & salaries	83,593	168,063	218,588	292,119	325,540	33,421
Proprietors' income	155,092	136,331	136,419	287,042	321,065	34,022
Percent of Total						% Change 2000- 2010
Earnings by place of work						-1.1%
Wage & salary disbursements	75.3%	74.5%	74.1%	70.2%	66.3%	-6.5%
Supplements to wages & salaries	8.6%	14.1%	16.0%	15.1%	17.0%	11.4%

All income data in the table above are reported by *place of work*, which is different than earnings by *place of residence* shown on the following page of this report.

- From 1970 to 2010, labor earnings from wage and salary employment grew from \$728.5 million to \$1,272.2 million (in real terms), a 75% increase.
 From 1970 to 2010, labor earnings from
- From 1970 to 2010, labor earnings from proprietors' employment grew from \$155.1 million to \$321.1 million (in real terms), a 107% increase.



Proprietors' Employment Share of Employment & Proprietors' Income Share of Labor Earnings, Jefferson County WI



 In 1970, proprietors represented 21% of total employment. By 2010, proprietors represented 28% of total employment.

 In 1970, proprietors represented 15% of total labor earnings. By 2010, proprietors represented 16% of total labor earnings.

Data Sources: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Tables CA05 & CA05N.

How has the mix of wage and salary and proprietors income changed?

What do we measure on this page?

This page describes the components of labor earnings (in real terms): income from wage and salary, and proprietors' employment. It also looks more closely at proprietors, comparing long-term trends in proprietors' employment and personal income.

Labor Earnings: This represents (on this page) net earnings by place of work.

<u>Wage and Salary</u>: This is a measure of the average annual number of full-time and part-time jobs in each area by place of work. All jobs for which wages and salaries are paid are counted. Full-time and part-time jobs are counted with equal weight.

<u>Proprietors</u>: This term includes the self-employed in nonfarm and farm sectors. Nonfarm self-employment consists of the number of sole proprietorships and the number of individual business partners not assumed to be limited partners. Farm self-employment is defined as the number of non-corporate farm operators, consisting of sole proprietors and partners.

Note that labor earnings are only one component of total personal income. The other major component, non-labor income, is described later in this report.

Why is it important?

The table and figures can be used to compare the relative importance, and change in importance, of wage and salary jobs and proprietors as a source of employment and earnings.

Rapid growth and/or high proportions of proprietors' employment and income can be a sign of a healthy economy that is attracting entrepreneurs and stimulating business development. Correlating this growth here with patterns of population growth (such as high levels of in-migration) and unemployment rates (robust business development activity tends to be associated with lower rates of unemployment) may support this finding. High levels of proprietors in an economy can also indicate a weak labor force and a lack of opportunity. This may be the case if proprietors' employment is increasing and labor earnings as a whole are flat or declining.

Additional Resources

Labor Earnings is the same as Net Earnings by Place of Work, as defined by the U.S. Department of Commerce. For a glossary of terms used by the Bureau of Economic Analysis, see: http://www.bea.gov/regional/definitions.

For more information on farm employment and earnings, see the EPS-HDT Agriculture report.

Data Sources

U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Tables CA05 & CA05N.

How has the mix of labor earnings and non-labor income changed?

This page describes changes in labor earnings and non-labor sources of income.

Labor Earnings: This represents (on this page) net earnings by place of residence, which is earnings by place of work (the sum of wage and salary disbursements, supplements to wages and salaries, and proprietors' income) less contributions for government social insurance, plus an adjustment to convert earnings by place of work to a place of residence basis.

Non-Labor Income: Dividends, interest, and rent (money earned from investments), and transfer payments (includes government retirement and disability insurance benefits, medical payments such as mainly Medicare and Medicaid, income maintenance benefits, unemployment insurance benefits, etc.) make up non-labor income. Non-labor income is reported by place of residence.

Components of Personal Income Change, 1970-2010 (Thousands of 2011 \$s)

	1970	1980	1990	2000	2010	-000 Change 2010
Total Personal Income	1,339,002	1,704,995	1,964,587	2,839,280	3,006,757	167,478
Labor Earnings	1,002,295	1,182,397	1,303,317	1,978,512	2,002,154	23,642
Non-Labor Income	336,707	522,598	661,270	860,768	1,004,604	143,836
Dividends, Interest and Rent	218,475	285,165	369,970	515,189	421,364	-93,825
Transfer Payments	118,232	237,433	291,300	345,579	583,239	237,660
Percent of Total						% Change 2000- 2010
Total Personal Income						5.9%
Labor Earnings	74.9%	69.3%	66.3%	69.7%	66.6%	1.2%
Non-Labor Income	25.1%	30.7%	33.7%	30.3%	33.4%	16.7%
Dividends, Interest and Rent	16.3%	16.7%	18.8%	18.1%	14.0%	-18.2%
Transfer Payments	8.8%	13.9%	14.8%	12.2%	19.4%	68.8%

All income data in the table above are reported by *place of residence*. Labor earnings and non-labor income may not add to total personal income due to adjustments made by the Bureau of Economic Analysis.





 In 1970, non-labor income represented 25% of total personal income. By 2010 non-labor income represented 33% of total personal income.

Data Sources: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Tables CA05 & CA05N.

How has the mix of labor earnings and non-labor income changed?

What do we measure on this page?

This page describes changes in labor earnings and non-labor sources of income.

Labor Earnings: This represents (on this page) net earnings by place of residence, which is earnings by place of work (the sum of wage and salary disbursements, supplements to wages and salaries, and proprietors' income) less contributions for government social insurance, plus an adjustment to convert earnings by place of work to a place of residence basis.

Non-Labor Income: Dividends, interest, and rent (money earned from investments), and transfer payments (includes government retirement and disability insurance benefits, medical payments such as mainly Medicare and Medicaid, income maintenance benefits, unemployment insurance benefits, etc.) make up non-labor income. Non-labor income is reported by place of residence.

Dividends, Interest, and Rent: These sources of income are sometimes referred to as "investment income" or "property income" and include personal dividend income, personal interest income, and rental income of persons with capital consumption adjustment.

Transfer Payments: This component of personal income is payments to persons for which no current services are performed. It consists of payments to individuals and to nonprofit institutions by federal, state, and local governments and by businesses.

Why is it important?

In many geographies non-labor income is often the largest source of personal income and also the fastest growing. This is particularly the case in some rural areas and small cities. An aging population, stock market and investment growth, and a highly mobile population are some of the reasons behind the rapid growth in non-labor income.

The growth in non-labor income can be an indication that a place is an attractive place to live and retire. The in-migration of people who bring investment and retirement income with them (verify from previous pages that in-migration is increasing) is associated with a high quality of life (for example, local recreation opportunities), good health care facilities, and affordable housing (important for those on a fixed income). Non-labor income can also be important to places with struggling economies, either as a source of income maintenance for the poor or as a more stable form of income in areas with declining industries and labor markets.

When investigating non-labor income some important issues for public land managers include whether the area is attracting retirees and people with investment income, the role public lands play in attracting and retaining people with non-labor income, how these people use or enjoy public lands, and whether these uses or ways of enjoying public lands are at odds with current uses or management.

If public lands resources are one of the reasons growing areas are able to attract and retain non-labor sources of income, then public lands are important to local economic well-being by contributing to economic growth and per capita income. If, on the other hand, contracting populations or industries result in a shrinking labor market, non-labor income may be important as a remaining source of income and can help stabilize downturns.

Methods

The term "labor" is used in this report to differentiate labor from non-labor sources of income. As defined by the U.S. Department of Commerce, labor earnings are "net earnings by place of residence." For a glossary of terms used by the Bureau of Economic Analysis, see: http://www.bea.gov/regional/definitions.

Labor earnings and non-labor income may not add to total personal income because of adjustments made by the Bureau of Economic Analysis to account for contributions for social security, cross-county commuting, and other factors.

Non-labor income underestimates retirement income because it does not include private pensions and savings (e.g., 401Ks).

Additional Resources

For detailed analysis of non-labor income and its components, see the EPS-HDT Non-Labor Income report.

For more information on the aging of the population and poverty measures, see the EPS-HDT Demographics report.

For a glossary of terms used by the Bureau of Economic Analysis, see: http://www.bea.gov/glossary/glossary.cfm. Note that the term "non-labor" income is not used by BEA, It is used here to refer to the sum of non-labor related sources of personal income.

Data Sources

U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Tables CA05 & CA05N.

How has employment by industry changed historically?

This page describes historical employment change by industry. Industries are organized according to three major categories: non-services related, services related, and government. Employment includes wage and salary jobs and proprietors. The employment data are organized according to the Standard Industrial Classification (SIC) system and reported by place of work.

Employment by Industry, 1970-2000

	1970	1980	1990	2000	-Change 1990 2000
Total Employment (number of jobs)	26,969	33,634	37,902	47,087	9,185
Non-services related	13,072	15,425	15,846	17,868	2,022
Farm	3,481	3,306	2,308	2,063	-245
Agricultural services, forestry, fishing & other	129	282	374	558	184
Mining (including fossil fuels)	10	27	38	47	9
Construction	1,093	1,189	1,360	2,115	755
Manufacturing (including forest products)	8,359	10,621	11,766	13,085	1,319
Services related	10,895	14,958	18,275	24,980	6,705
Transportation & public utilities	886	948	1,493	2,035	542
Wholesale trade	1,029	1,086	1,545	1,749	204
Retail trade	4,562	5,645	6,434	8,664	2,230
Finance, insurance & real estate	1,068	1,716	1,393	1,978	585
Services	3,350	5,563	7,410	10,554	3,144
Government	3,002	3,251	3,781	4,319	538
Percent of Total					% Change 1990-
					2000
Iotal Employment	40.5%	45.004	44.00/	07.00/	24.2%
Non-services related	48.5%	45.9%	41.8%	37.9%	12.8%
Farm	12.9%	9.8%	6.1%	4.4%	-10.6%
Agricultural services, forestry, fishing & other	0.5%	0.8%	1.0%	1.2%	49.2%
Mining (including fossil fuels)	0.0%	0.1%	0.1%	0.1%	23.6%
Construction	4.1%	3.5%	3.6%	4.5%	55.5%
Manufacturing (including forest products)	31.0%	31.6%	31.0%	27.8%	11.2%
Services related	40.4%	44.5%	48.2%	53.1%	36.7%
Transportation & public utilities	3.3%	2.8%	3.9%	4.3%	36.3%
Wholesale trade	3.8%	3.2%	4.1%	3.7%	13.2%
Retail trade	16.9%	16.8%	17.0%	18.4%	34.7%
Retail trade Finance, insurance & real estate	16.9% 4.0%	16.8% 5.1%	17.0% 3.7%	18.4% 4.2%	34.7% 42.0%
Retail trade Finance, insurance & real estate Services	16.9% 4.0% 12.4%	16.8% 5.1% 16.5%	17.0% 3.7% 19.6%	18.4% 4.2% 22.4%	34.7% 42.0% 42.4%

All employment data are reported by place of work. Estimates for data that were not disclosed are shown in *italics* in the table above.

The employment data above are organized according to the Standard Industrial Classification (SIC) system. The data end in 2000 because in 2001 the Bureau of Economic Analysis switched to organizing industry-level data according to the newer North American Industrial Classification System (NAICS). More recent employment trends, organized by NAICS, are shown in subsequent sections of this report.

Data Sources: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA25.

How has employment by industry changed historically?

What do we measure on this page?

This page describes historical employment change by industry. Industries are organized according to three major categories: non-services related; services related; and government. Employment includes wage and salary jobs and proprietors. The employment data are organized according to the Standard Industrial Classification (SIC) system and reported by place of work.

Non-Services Related: Consists of employment in industries such as farm, mining, and manufacturing.

Services Related: Consists of employment in industries such as retail trade, finance, insurance and real estate, and services.

Government: Consists of federal, military, state and local government employment, and government enterprise.

Why is it important?

Understanding which industries are responsible for most jobs and which sectors are growing or declining is key to grasping the type of economy that exists, how it has changed over time, and evolving competitive strengths.

Most new jobs created in the U.S. economy in the last thirty years have been in services related sectors, a category that includes a wide variety of high and lowwage occupations ranging from jobs in hotels and amusement parks to legal, health, business, and educational services. The section in this report titled "How do wages compare across industries?" shows the difference in wages between various services related industries and compared to non-services related sectors.

In many small rural communities, government employment (e.g., the Forest Service and Bureau of Land Management) represents an important component of the economy. In others there have been important changes in employment in mining (which includes fossil fuel energy development), manufacturing (which includes lumber and wood products), and construction.

Methods

The data end in 2000 because in 2001 the Bureau of Economic Analysis (BEA) switched to organizing industry-level information according to the newer North American Industrial Classification System (NAICS). More recent employment trends, organized by NAICS, are shown in subsequent sections of this report.

It is not normally appropriate to put SIC and NAICS data in the same tables and figures because of the difference in methods used to organize industry data. The SIC coding system organizes industries by the primary activity of the establishment. In NAICS, industries are organized according to the production process. See the Data Sources and Methods section of this report for more information on the shift from SIC to NAICS.

The terms non-services related and services related are not terms used by the U.S. Department of Commerce. They are used in these pages to help organize the information into easy-to-understand categories.

Some data are withheld by the federal government to avoid the disclosure of potentially confidential information. Headwaters Economics uses supplemental data from the U.S. Department of Commerce to estimate these data gaps. These are indicated in *italics* in tables.

Additional Resources

For online SIC and NAICS manuals and definitions of industry codes see: http://www.bls.gov/bls/NAICS.htm

According to projections by the U.S. Department of Labor, from 2008 through 2018 "goods-producing" employment in the U.S. (mining, construction, and manufacturing) will not grow. By 2018, goods-producing sectors will account for 12.9 percent of all jobs, down from 14.2 percent in 2008. In contrast, "service-producing" sectors are expected to account for 96 percent of the growth in new jobs. The fastest growing are projected to be professional and business services, and health care and social assistance. See: Bartsch K. J. 2009. "The Employment Projections for 2008-18" Monthly Labor Review Online. 132(11): 3-10, available at:

http://www.bls.gov/opub/mlr/2009/11. See also: http://www.bls.gov/opub/mlr/2012/01/art1full.pdf for 2010-2020 projections.

For an overview of how historical changes in employment have affected rural America, see: Whitenar, L.A. and D.A. McGranahan. 2003. "Rural America: Opportunities and Challenges." Amber Waves. February, available at: http://www.ers.usda.gov/Amberwaves/Feb03/features/ruralamerica.htm.

Documentation explaining methods developed by Headwaters Economics for estimating disclosure gaps is available at www.headwaterseconomics.org/eps-hdt.

Data Sources

U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA25.

Industry Sectors

How has employment by industry changed historically?

This page describes historical employment trends by major industry category (non-services related, services related, and government) and by industry. Employment includes wage and salary jobs and proprietors. The employment data are organized according to the Standard Industrial Classification (SIC) system and reported by place of work.

- From 1970 to 2000, jobs in services related industries grew from 10,895 to 24,980, a 129% increase.
- From 1970 to 2000, jobs in non-services related industries grew from 13,072 to 17,868, a 37% increase.
- From 1970 to 2000, jobs in government jobs grew from 3,002 to 4,319, a 44% increase.



- In 2000 the three industry sectors with the largest number of jobs were manufacturing (13,085 jobs), services (10,554 jobs), and retail trade (8,664 jobs).
- From 1970 to 2000, the three industry sectors that added the most new jobs were services (7,204 new jobs), manufacturing (4,726 new jobs), and retail trade (4,102 new jobs).



Data Sources: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA25.

How has employment by industry changed historically?

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In many small rural communities, government employment (e.g., the Forest Service and Bureau of Land Management) represents an important component of the economy. In others there have been important changes in employment in mining (which includes fossil fuel energy development), manufacturing (which includes lumber and wood products), and construction.

Methods

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Data Sources

U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA25.

How has employment by industry changed recently?

This page describes recent employment change by industry. Industries are organized according to three major categories: non-services related; services related; and government. Employment includes wage and salary jobs and proprietors. The employment data are organized according to the North American Industrial Classification System (NAICS) and reported by place of work.

Employment by Industry, 2001-2010

	2001	2010	Change 2001-
Tatal Fundament (number of intra)	47.700	40.144	2010
New semilars related	47,709	48,144	435
	15,745	13,188	-2,557
Farm	2,007	1,920	-87
Forestry, fishing, & related activities	na	na	na
	na	na	na
Construction	2,211	2,370	93
	11,461	8,898	-2,563
	25,701	30,242	4,541
	na 1.527	110	na 540
Wholesale trade	1,527	2,046	519
	6,041	5,388	-653
I ransportation and warehousing	na	1,452	na
	/48	821	/3
Finance and insurance	1,262	2,242	980
Real estate and rental and leasing	1,623	2,334	/11
Professional and technical services	1,516	1,761	245
Management of companies and enterprises	109	326	217
Administrative and waste services	2,071	2,738	667
Educational services	504	618	114
Health care and social assistance	4,236	4,054	-182
Arts, entertainment, and recreation	1,048	1,237	189
Accommodation and food services	2,845	2,704	-141
Other services, except public administration	2,171	2,411	240
Government	4,426	4,401	-25
Percent of Total			% Change 2001-
Total Employment			0.9%
Non-services related	33.0%	27 4%	-16.2%
Farm	4.2%	4 0%	-4.3%
Forestry fishing & related activities	4.270 na	4.070	
Mining (including fossil fuels)	na	na	na
	1 8%	1 0%	1 104
Manufacturing	4.8 %	4.5%	-22.4%
Sanvicas rolated	53.0%	62.8%	-22.4 /0
	00.570	02.0%	17.770
Wholesale trade	3 2%	4.2%	34.0%
Detail trade	12 7%	4.2 /0	10.8%
Transportation and warehousing	12.7 %	2.0%	-10.070
	1 6%	1 7%	0.8%
Einanaa and ingurango	2.6%	1.7 /0	9.070 77.70/
Pinalice and insurance	2.0%	4.7 %	11.170
	3.4 %	4.0%	43.0%
Monogement of companies and enterprises	5.2%	0.7%	10.2%
	0.2%	0.7%	199.1%
	4.3%	5.7%	32.2%
Euucaliuliai selvices	1.1%	1.3%	22.0%
	8.9%	0.4%	-4.3%
	2.2%	2.0%	IO.U%
Other services execut public administration	0.0%	5.0%	-0.0%
Government	4.0%	0.10/	0.6%
Government	9.3%	9.1%	-0.0%

All employment data are reported by place of work. Estimates for data that were not disclosed are shown in italics.

Data Sources: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA25N.

How has employment by industry changed recently?

What do we measure on this page?

This page describes recent employment change by industry from 2001 to 2008. Industries are organized according to three major categories: non-services related, services related, and government. Employment includes wage and salary jobs and proprietors. The employment data are organized according to the North American Industrial Classification System (NAICS) and reported by place of work.

Non-Services Related: Consists of employment in industries such as farm, mining, and manufacturing.

Services Related: Consists of employment in industries such as retail trade, finance, insurance and real estate, and services.

Government: Consists of federal, military, state and local government employment, and government enterprise.

Why is it important?

Recent employment trends organized by NAICS offer more detail than the old Standard Industrial Classification (SIC) system, particularly with regard to services related industries. This is especially useful since in most geographies the majority of new job growth in recent years has taken place in services related industries.

Although NAICS captures much more detail on employment in services related sectors, these industries still encompass a wide variety of high and low-wage occupations ranging from jobs in accommodation and food services to professional and technical services. The section in this report titled "*How do wages compare across industries?*" shows the difference in wages between various services related industries and compared to non-services related sectors.

It can be useful to ask whether the historical employment trends shown earlier in this report continue more recently, and what factors are driving a shift in industry makeup and competitive position. It may be the case that the economic role and contribution of public lands have changed along with broader economic shifts in many geographies.

Methods

In 2001, the Bureau of Economic Analysis (BEA) switched to organizing industry-level information according to the newer North American Industrial Classification System (NAICS). An advantage of the NAICS method is the greater amount of detail to describe changes in the service related sectors.

It is not normally appropriate to put SIC and NAICS data in the same tables and figures because of the difference in methods used to organize industry data. The SIC coding system organizes industries by the primary activity of the establishment. In NAICS, industries are organized according to the production process. See the Data Sources and Methods section of this report for more information on the shift from SIC to NAICS.

The terms non-services related and services related are not terms used by the U.S. Department of Commerce. They are used in these pages to help organize the information into easy-to-understand categories.

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Additional Resources

For online SIC and NAICS manuals and definitions of industry codes, see: http://www.bls.gov/bls/NAICS.htm

For a review of the role of public lands amenities and transportation in economic development, see:

Rasker, R., P.H. Gude, J.A. Gude, J. van den Noort. 2009. "The Economic Importance of Air Travel in High-Amenity Rural Areas." Journal of Rural Studies 25: 343-353., available at: http://headwaterseconomics.com/3wests/Rasker_et_al_2009_Three_Wests.pdf.

For a review of the role of amenities in rural development, see the U.S. Department of Agriculture's Economic Research Service: McGranahan, D. 1999. "Natural Amenities Drive Rural Population Change." Agricultural Economic Report No. (AER781), October. http://www.ers.usda.gov/publications/aer781.

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Data Sources

U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA25N.

Industry Sectors

How has employment by industry changed recently?

This page describes recent employment trends by major industry category (non-services related, services related, and government) and by industry. Employment includes wage and salary jobs and proprietors. The employment data are organized according to the North American Industrial Classification System (NAICS) and reported by place of work.

- From 2001 to 2010, jobs in services related industries grew from 25,701 to 30,242, a 18% increase.
- From 2001 to 2010, jobs in non-services related industries shrank from 15,745 to 13,188, a -16% decrease.
- From 2001 to 2010, jobs in government jobs shrank from 4,426 to 4,401, a -1% decrease.







• From 2001 to 2010, the three industry sectors that added the most new jobs were finance, insurance (980 new jobs), real estate, rental, leasing (711 new jobs), and admin., waste services (667 new jobs).

Data Sources: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA25N.

How has employment by industry changed recently?

What do we measure on this page?

This page describes recent employment trends by major industry category (non-services related, services related, and government) and by industry. Employment includes wage and salary jobs and proprietors. The employment data are organized according to the North American Industrial Classification System (NAICS) and reported by place of work.

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Why is it important?

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It can be useful to ask whether the historical employment trends shown earlier in this report continue more recently, and what factors are driving a shift in industry makeup and competitive position. It may be the case that the economic role and contribution of public lands have changed along with broader economic shifts in many geographies.

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Data Sources

U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA25N.

How has personal income by industry changed historically?

This page describes historical personal income change by industry (in real terms). Industries are organized according to three major categories: non-services related, services related, and government. The personal income data are organized according to the Standard Industrial Classification (SIC) system and reported by place of work.

Personal Income by Industry, 1970-2000 (Thousands of 2011 \$s)

Labor Earnings 967,180 1,191,903 1,369,498 1,940,425 570,927 Non-services related 548,817 694,822 717,952 886,907 108,956 Farm 74,311 64,447 51,770 31,115 2.234 Mining (including fossil fuels) 800 3,281 647 2,048 1,401 Construction 48,066 554,08 62,237 119,746 57,319 Manufacturing (including forest products) 418,549 562,391 593,576 722,233 128,656 Services related 309,691 376,136 495,371 842,859 347,488 Transportation & public utilities 46,252 41,678 68,141 106,439 38,289 Wholesale trade 114,302 120,364 133,344 190,681 559,335 Finance, insurance & real estate 21,178 25,961 28,199 389,399 61,199 Services related 77,76 58,3% 52,44% 45,77% 2000 Labor Earnings 77,76		1970	1980	1990	2000	-Change 1990 2000
Non-services related 548,817 694,822 717,952 886,907 168,966 Farm 74,311 64,847 51,770 31,115 -20,655 Agricultural services, forestry, fishing & other 7,090 8,805 9,531 11,765 2,234 Mining (including forest products) 48,066 55,408 62,427 119,746 57,319 Manufacturing (including forest products) 418,549 562,391 593,576 722,233 128,656 Services related 309,691 376,136 495,371 642,459 347,488 Transportation & public utilities 46,252 41,578 68,141 106,439 38,289 Wholesale trade 114,302 120,364 131,344 190,681 59,338 Finance, insurance & real estate 21,178 25,961 28,199 89,399 61,199 Services 182,062 140,052 120,935 156,175 207,318 51,433 Percent of Total 182,961 20,939 166,939 3,89% 6,939	Labor Earnings	967,180	1,191,903	1,369,498	1,940,425	570,927
Farm 74,311 64,847 51,70 31,115 -20,655 Agricultural services, forestry, fishing & other 7,090 8,905 9,531 11,765 2,234 Mining (including fossil fuels) 800 3,281 647 2,048 1,401 Construction 48,066 55,408 62,427 119,746 57,319 Manufacturing (including forest products) 418,549 562,391 593,576 722,233 128,656 Services related 309,691 376,136 495,371 184,289 347,488 Transportation & public utilities 46,252 41,578 68,141 106,439 38,298 Wholesale trade 45,770 48,182 69,393 80,876 10,937 Retail trade 114,302 120,364 131,344 190,681 59,338 Finance, insurance & real estate 21,178 25,961 28,199 89,399 61,199 Services related 7,7% 54,54 35,746 177,74 Monescrices related 7,7% 5	Non-services related	548,817	694,832	717,952	886,907	168,956
Agricultural services, forestry, fishing & other 7,090 8,905 9,531 11,765 2,234 Mining (including fossil fuels) 800 3,281 647 2,048 1,401 Construction 48,066 55,408 62,427 119,746 57,319 Manufacturing (including forest products) 418,549 562,391 593,576 722,233 128,656 Services related 309,691 376,136 495,371 842,859 347,488 Transportation & public utilities 46,252 41,578 68,141 106,439 38,298 Wholesale trade 45,770 48,182 69,939 80,876 10,937 Retail trade 114,302 120,364 131,344 190,681 59,338 Finance, insurance & real estate 21,178 25,961 28,199 89,399 611,199 Services 82,190 140,052 197,748 375,464 177,716 Government 108,67 58.3% 52.4% 45.7% 23.5% Farm 7.7%	Farm	74,311	64,847	51,770	31,115	-20,655
Mining (including fossil fuels) 800 3,281 647 2,048 1,401 Construction 48,066 55,088 62,427 119,746 57,319 Manufacturing (including forest products) 418,549 5562,391 593,576 722,233 128,656 Services related 309,691 376,136 495,371 842,859 347,488 Transportation & public utilities 46,252 41,578 68,141 106,439 38,298 Wholesale trade 414,302 120,364 131,344 190,681 59,338 Finance, insurance & real estate 21,178 25,961 28,199 89,399 61,199 Services 82,190 140,052 197,748 375,464 177,716 Government 108,672 120,355 156,175 20718 2000 Labor Earnings	Agricultural services, forestry, fishing & other	7,090	8,905	9,531	11,765	2,234
Construction 48,066 55,408 62,427 119,746 57,319 Manufacturing (including forest products) 418,549 562,391 593,576 722,233 128,656 Services related 309,661 376,136 4495,371 842,859 347,488 Transportation & public utilities 46,252 41,578 68,141 106,439 38,298 Wholesale trade 45,770 48,182 69,939 80,876 10,937 Retail trade 114,302 120,364 131,344 190,681 59,338 Finance, insurance & real estate 21,178 25,961 28,199 83,399 61,199 Services 82,190 140,052 197,748 375,464 177,716 Government 108,672 120,935 156,175 207,318 51,143 Percent of Total 7.7% 58.3% 52.4% 45.7% 23.5% Farm 7.7% 58.3% 52.4% 45.7% 23.5% Farm 7.7% 5.0% 0.0%	Mining (including fossil fuels)	800	3,281	647	2,048	1,401
Manufacturing (including forest products) 418,549 562,391 593,576 722,233 128,656 Services related 309,691 376,136 445,371 842,859 347,488 Transportation & public utilities 46,252 41,678 68,141 106,439 38,298 Wholesale trade 45,770 48,182 69,939 80,876 10,937 Retail trade 114,302 120,364 131,344 190,681 59,338 Finance, insurance & real estate 21,178 25,961 28,199 89,399 61,199 Services 82,190 140,052 197,748 375,464 177,716 Government 108,672 120,935 156,175 207,318 51,143 Percent of Total ************************************	Construction	48,066	55,408	62,427	119,746	57,319
Services related 309,691 376,136 495,371 842,859 347,488 Transportation & public utilities 46,252 41,578 68,141 106,439 38,298 Wholesale trade 45,770 48,182 69,939 80,876 10,937 Retail trade 114,302 120,364 131,344 190,681 59,338 Finance, insurance & real estate 21,178 25,961 28,199 89,399 61,199 Services 82,190 140,052 197,748 375,464 177,716 Government 108,672 120,935 156,175 207,318 143 Percent of Total ************************************	Manufacturing (including forest products)	418,549	562,391	593,576	722,233	128,656
Transportation & public utilities 46,252 41,578 68,141 106,439 38,298 Wholesale trade 45,770 48,182 69,939 80,876 10,937 Retail trade 114,302 120,364 131,344 190,681 59,338 Finance, insurance & real estate 21,178 25,961 28,199 89,399 61,199 Services 82,190 140,052 197,748 375,464 177,716 Government 108,672 120,935 156,175 207,318 51,143 Percent of Total	Services related	309,691	376,136	495,371	842,859	347,488
Wholesale trade 45,770 48,182 69,939 80,876 10,937 Retail trade 114,302 120,364 131,344 190,681 59,338 Finance, insurance & real estate 21,178 25,961 28,199 89,399 61,199 Services 82,190 140,052 197,748 375,464 177,716 Government 108,672 120,935 156,175 207,318 51,143 Percent of Total ************************************	Transportation & public utilities	46,252	41,578	68,141	106,439	38,298
Retail trade 114,302 120,364 131,344 190,681 59,338 Finance, insurance & real estate 21,178 25,961 28,199 89,399 61,199 Services 82,190 140,052 197,748 375,464 177,716 Government 108,672 120,935 156,175 207,318 51,143 Percent of Total Services related 56,7% 58,3% 52,4% 45,7% 23,5% Labor Earnings 7.7% 5.4% 3.8% 1.6% -39,9% Agricultural services, forestry, fishing & other 0.7% 0.7% 0.6% 23,6% Moning (including fossil fuels) 0.1% 0.3% 0.0% 0.1% 216,6% Manufacturing (including forest products) 43,3% 47.2% 43,3% 37.2% 21.7% Services related 32.0% 31.6% 36.2% 43.4% 70.1% Moning (including forest products) 43.3% 47.2% 43.3% 37.2% 21.7% Services related 32.0% <t< td=""><td>Wholesale trade</td><td>45,770</td><td>48,182</td><td>69,939</td><td>80,876</td><td>10,937</td></t<>	Wholesale trade	45,770	48,182	69,939	80,876	10,937
Finance, insurance & real estate 21,178 25,961 28,199 89,399 61,199 Services 82,190 140,052 197,748 375,464 177,716 Government 108,672 120,935 156,175 207,318 51,143 Percent of Total ***********************************	Retail trade	114,302	120,364	131,344	190,681	59,338
Services 82,190 140,052 197,748 375,464 177,716 Government 108,672 120,935 156,175 207,318 51,143 Percent of Total % Change 1990-2000 2000 <td>Finance, insurance & real estate</td> <td>21,178</td> <td>25,961</td> <td>28,199</td> <td>89,399</td> <td>61,199</td>	Finance, insurance & real estate	21,178	25,961	28,199	89,399	61,199
Government108,672120,935156,175207,31851,143Percent of Total***********************************	Services	82,190	140,052	197,748	375,464	177,716
Percent of Total % Change 1990-2000 Labor Earnings 41.7% Non-services related 56.7% 58.3% 52.4% 45.7% 23.5% Farm 7.7% 5.4% 3.8% 1.6% -39.9% Agricultural services, forestry, fishing & other 0.7% 0.7% 0.7% 0.6% 23.4% Mining (including fossil fuels) 0.1% 0.3% 0.0% 0.1% 216.6% Construction 5.0% 4.6% 4.6% 6.2% 91.8% Manufacturing (including forest products) 43.3% 47.2% 43.3% 37.2% 21.7% Services related 32.0% 31.6% 36.2% 43.4% 70.1% Transportation & public utilities 4.8% 3.5% 5.0% 5.5% 56.2% Wholesale trade 11.8% 10.1% 9.6% 9.8% 45.2% Finance, insurance & real estate 2.2% 2.1% 4.6% 217.0% Services 8.5% 11.8% 14.4% 19.3% 89.9% <	Government	108,672	120,935	156,175	207,318	51,143
Labor Earnings 41.7% Non-services related 56.7% 58.3% 52.4% 45.7% 23.5% Farm 7.7% 5.4% 3.8% 1.6% -39.9% Agricultural services, forestry, fishing & other 0.7% 0.7% 0.7% 0.6% 23.4% Mining (including fossil fuels) 0.1% 0.3% 0.0% 0.1% 216.6% Construction 5.0% 4.6% 4.6% 6.2% 91.8% Manufacturing (including forest products) 43.3% 47.2% 43.3% 37.2% 21.7% Services related 32.0% 31.6% 36.2% 43.4% 70.1% Transportation & public utilities 4.8% 3.5% 5.0% 5.5% 56.2% Wholesale trade 4.7% 4.0% 5.1% 4.2% 15.6% Retail trade 11.8% 10.1% 9.6% 9.8% 45.2% Finance, insurance & real estate 2.2% 2.2% 2.1% 4.6% 217.0% Services 8.5%	Percent of Total					% Change 1990-
Non-services related 56.7% 58.3% 52.4% 45.7% 23.5% Farm 7.7% 5.4% 3.8% 1.6% -39.9% Agricultural services, forestry, fishing & other 0.7% 0.7% 0.7% 0.6% 23.4% Mining (including fossil fuels) 0.1% 0.3% 0.0% 0.1% 216.6% Construction 5.0% 4.6% 4.6% 6.2% 91.8% Manufacturing (including forest products) 43.3% 47.2% 43.3% 37.2% 21.7% Services related 32.0% 31.6% 36.2% 43.4% 70.1% Transportation & public utilities 4.8% 3.5% 5.0% 5.5% 56.2% Wholesale trade 4.7% 4.0% 5.1% 4.2% 15.6% Retail trade 11.8% 10.1% 9.6% 9.8% 45.2% Finance, insurance & real estate 2.2% 2.2% 2.1% 4.6% 217.0% Services 8.5% 11.8% 14.4% 19.3% <	Labor Farnings					2000
Konservices related 30.7 % 30.3 % 32.4 % 40.7 % 2.3 % Farm 7.7 % 5.4 % 3.8 % 1.6 % -39.9 % Agricultural services, forestry, fishing & other 0.7 % 0.7 % 0.7 % 0.6 % 23.4 % Mining (including fossil fuels) 0.1 % 0.3 % 0.0 % 0.6 % 216.6 % Construction 5.0 % 4.6 % 4.6 % 6.2 % 91.8 % Manufacturing (including forest products) 43.3 % 47.2 % 43.3 % 37.2 % 21.7 % Services related 32.0 % 31.6 % 36.2 % 43.4 % 70.1 % Transportation & public utilities 4.8 % 3.5 % 5.0 % 5.5 % 56.2 % Wholesale trade 4.7 % 4.0 % 5.1 % 4.2 % 15.6 % Retail trade 11.8 % 10.1 % 9.6 % 9.8 % 45.2 % Finance, insurance & real estate 2.2 % 2.2 % 2.1 % 4.6 % 217.0 % Services 8.5 % 11.8 %	Non-services related	56 7%	58 3%	52 4%	15 7%	41.770
Agricultural services, forestry, fishing & other 0.7% 0.7% 0.7% 0.6% 23.4% Mining (including fossil fuels) 0.1% 0.3% 0.0% 0.1% 216.6% Construction 5.0% 4.6% 4.6% 6.2% 916.8% Manufacturing (including forest products) 43.3% 47.2% 43.3% 37.2% 21.7% Services related 32.0% 31.6% 36.2% 43.4% 70.1% Transportation & public utilities 4.8% 3.5% 5.0% 5.5% 56.2% Wholesale trade 4.7% 4.0% 5.1% 4.2% 15.6% Retail trade 11.8% 10.1% 9.6% 9.8% 45.2% Finance, insurance & real estate 2.2% 2.2% 2.1% 4.6% 217.0% Services 8.5% 11.8% 14.4% 19.3% 89.9%	Farm	7.7%	5.4%	3.8%	1.6%	_30.0%
Agricultural scholes, forestly, harming d other 0.1% 0.1% 0.1% 0.1% 0.0% 0.1% 20.4% Mining (including fossil fuels) 0.1% 0.3% 0.0% 0.1% 216.6% Construction 5.0% 4.6% 4.6% 6.2% 91.8% Manufacturing (including forest products) 43.3% 47.2% 43.3% 37.2% 21.7% Services related 32.0% 31.6% 36.2% 43.4% 70.1% Transportation & public utilities 4.8% 3.5% 5.0% 5.5% 56.2% Wholesale trade 4.7% 4.0% 5.1% 4.2% 15.6% Retail trade 11.8% 10.1% 9.6% 9.8% 45.2% Finance, insurance & real estate 2.2% 2.2% 2.1% 4.6% 217.0% Services 8.5% 11.8% 14.4% 19.3% 89.9%	Agricultural services forestry fishing & other	0.7%	0.7%	0.7%	0.6%	-33.3%
Mining (including loss index) 10.1% 10.5% 10.5% 10.7% 10.6% Construction 5.0% 4.6% 4.6% 6.2% 91.8% Manufacturing (including forest products) 43.3% 47.2% 43.3% 37.2% 21.7% Services related 32.0% 31.6% 36.2% 43.4% 70.1% Transportation & public utilities 4.8% 3.5% 5.0% 5.5% 56.2% Wholesale trade 4.7% 4.0% 5.1% 4.2% 15.6% Finance, insurance & real estate 2.2% 2.2% 2.1% 4.6% 217.0% Services 8.5% 11.8% 14.4% 19.3% 89.9%	Mining (including fossil fuels)	0.1%	0.7 %	0.7%	0.0%	216.6%
Construction 3.0% 4.0% 4.0% 6.2% 51.0% Manufacturing (including forest products) 43.3% 47.2% 43.3% 37.2% 21.7% Services related 32.0% 31.6% 36.2% 43.4% 70.1% Transportation & public utilities 4.8% 3.5% 5.0% 5.5% 56.2% Wholesale trade 4.7% 4.0% 5.1% 4.2% 15.6% Retail trade 11.8% 10.1% 9.6% 9.8% 45.2% Finance, insurance & real estate 2.2% 2.2% 2.1% 4.6% 217.0% Services 8.5% 11.8% 14.4% 19.3% 89.9%	Construction	5.0%	4.6%	4.6%	6.2%	Q1.8%
Services related 32.0% 31.6% 36.2% 43.4% 70.1% Transportation & public utilities 4.8% 3.5% 5.0% 5.5% 56.2% Wholesale trade 4.7% 4.0% 5.1% 4.2% 15.6% Retail trade 11.8% 10.1% 9.6% 9.8% 45.2% Finance, insurance & real estate 2.2% 2.2% 2.1% 4.6% 217.0% Services 8.5% 11.8% 14.4% 19.3% 89.9%	Manufacturing (including forest products)	43.3%	47.2%	43.3%	37.2%	21.7%
Transportation & public utilities 4.8% 3.5% 5.0% 5.5% 56.2% Wholesale trade 4.7% 4.0% 5.1% 4.2% 15.6% Retail trade 11.8% 10.1% 9.6% 9.8% 45.2% Finance, insurance & real estate 2.2% 2.2% 2.1% 4.6% 217.0% Services 8.5% 11.8% 14.4% 19.3% 89.9%	Services related	32.0%	31.6%	36.2%	43.4%	70.1%
Wholesale trade 4.7% 4.0% 5.1% 4.2% 15.6% Retail trade 11.8% 10.1% 9.6% 9.8% 45.2% Finance, insurance & real estate 2.2% 2.2% 2.1% 4.6% 217.0% Services 8.5% 11.8% 14.4% 19.3% 89.9%	Transportation & public utilities	4.8%	3.5%	5.0%	5.5%	56.2%
Retail trade 11.8% 10.1% 9.6% 9.8% 45.2% Finance, insurance & real estate 2.2% 2.2% 2.1% 4.6% 217.0% Services 8.5% 11.8% 14.4% 19.3% 89.9%	Wholesale trade	4.7%	4.0%	5.0%	4 2%	15.6%
Finance, insurance & real estate 2.2% 2.2% 2.1% 4.6% 217.0% Services 8.5% 11.8% 14.4% 19.3% 89.9%	Retail trade	11.8%	10.1%	9.6%	9.8%	45.2%
Services 8.5% 11.8% 14.4% 19.3% 89.9%	Finance insurance & real estate	2.2%	2.2%	2.1%	4.6%	217.0%
	Services	8.5%	11.8%	14.4%	19.3%	89.9%
Government 11.2% 10.1% 11.4% 10.7% 32.7%	Government	11,2%	10.1%	11.4%	10.7%	32.7%

All income data are reported by place of work. Industry categories may not add to total because of adjustments made by the Bureau of Economic Analysis. Estimates for data that were not disclosed are shown in *italics* in the table above.

The personal income data above are organized according to the Standard Industrial Classification (SIC) system. The data end in 2000 because in 2001 the U.S. Department of Commerce switched to organizing industry-level information according to the newer North American Industrial Classification System (NAICS). More recent personal income trends, organized by NAICS, are shown in subsequent pages of this report.

Data Sources: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA05.

How has personal income by industry changed historically?

What do we measure on this page?

This page describes historical personal income change by industry (in real terms). Industries are organized according to three major categories: non-services related, services related, and government. The personal income data are organized according to the Standard Industrial Classification (SIC) system and reported by place of work.

Non-Services Related: Consists of employment in industries such as farm, mining, and manufacturing.

Services Related: Consists of employment in industries such as retail trade, finance, insurance and real estate, and services.

Government: Consists of federal, military, state and local government employment, and government enterprise.

Why is it important?

Historical changes in personal income, by industry, show how the structure of the local economy has changed over time. Some of the trends are due to national and international factors, while other trends may reflect local conditions. The shifting sources of labor earnings can point to evolving weaknesses and strengths in the local or regional economy. It may be the case that the economic role and contribution of public lands have changed along with broader economic shifts in many geographies.

Most new jobs created in the U.S. economy in the last thirty years have been in services related sectors, a category that includes a wide variety of high and lowwage occupations ranging from jobs in hotels and amusement parks to legal, health, business, and educational services. The section in this report titled "*How do wages compare across industries*?" shows the difference in wages between various services related industries and compared to non-services related sectors.

In many small rural communities, government employment (e.g., the Forest Service and Bureau of Land Management) represents an important component of the economy. In others there have been important changes in employment in mining (which includes fossil fuel energy development), manufacturing (which includes lumber and wood products), and construction.

Methods

The personal income data are organized according to the Standard Industrial Classification (SIC) system. The data end in 2000 because in 2001 the Bureau of Economic Analysis switched to organizing industry-level information according to the newer North American Industrial Classification System (NAICS). More recent personal income trends, organized by NAICS, are shown in subsequent pages of this report.

It is not normally appropriate to put SIC and NAICS data in the same tables and figures because of the difference in methods used to organize industry data. The SIC coding system organizes industries by the primary activity of the establishment. In NAICS industries are organized according to the production process.

Some data are withheld by the federal government to avoid the disclosure of potentially confidential information. Headwaters Economics uses supplemental data from the U.S. Department of Commerce to estimate these data gaps. These are indicated in *italics* in tables.

Additional Resources

For online SIC and NAICS manuals and definitions of industry codes, see: http://www.bls.gov/bls/NAICS.htm and http://www.census.gov/eos/www/naics.

For an overview of how historical changes in employment and personal income have affected rural America, see: Whitenar, L.A. and D.A. McGranahan. 2003. "Rural America: Opportunities and Challenges." Amber Waves. February, available at: http://www.ers.usda.gov/Amberwaves/Feb03/features/ruralamerica.htm.

Documentation explaining methods developed by Headwaters Economics for estimating disclosure gaps is available at www.headwaterseconomics.org/eps-hdt.

Data Sources

U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA05.

Industry Sectors

How has personal income by industry changed historically?

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Millions of 2011 \$s

This page describes historical personal income trends by industry (in real terms). Industries are organized according to three major categories (non-services related, services related, and government) and using Standard Industry Classification categories. Data are reported by place of work.

- From 1970 to 2000, personal income in services related industries grew from \$309.7 million to \$842.9 million (in real terms), a 172% increase.
- From 1970 to 2000, personal income in non-services related industries grew from \$309.7 million to \$886.9 million (in real terms), a 62% increase.
- From 1970 to 2000, personal income in government jobs grew from \$108.7 million to \$207.3 million (in real terms), a 91% increase.



- In 2000, the three industry sectors with the largest personal income were manufacturing (\$722.2 million), services (\$375.5 million), and government (\$207.3 million).
- From 1970 to 2000 the three industry sectors that added the most new personal income (in real terms) were manufacturing (\$303.7 million), services (\$293.3 million), and government (\$98.6 million).



Data Sources: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA05.

How has personal income by industry changed historically?

What do we measure on this page?

This page describes historical personal income trends by industry (in real terms). Industries are organized according to three major categories (non-services related; services related; and government) and using Standard Industry Classification categories. Data are reported by place of work.

Services Related: Consists of employment in industries such as retail trade, finance, insurance and real estate, and services.

Non-Services Related: Consists of employment in industries such as farm, mining, and manufacturing.

Government: Consists of federal, military, state and local government employment, and government enterprise.

Why is it important?

Historical trend data for personal income by major industry categories are useful for understanding how the economy has evolved. They are also useful to see how the economy performed in the past (growth vs. decline, response to recessions, etc.), and whether the relationship between sectors has changed. If there has been a shift from non-services related industries to services related industries over time, this could signal a change in the competitive position of the local or regional economy.

Methods

The personal income data are organized according to the Standard Industrial Classification (SIC) system. The data end in 2000 because in 2001 the Bureau of Economic Analysis switched to organizing industry-level information according to the newer North American Industrial Classification System (NAICS). More recent personal income trends, organized by NAICS, are shown in subsequent pages of this report.

It is not normally appropriate to put SIC and NAICS data in the same tables and figures because of the difference in methods used to organize industry data. The SIC coding system organizes industries by the primary activity of the establishment. In NAICS industries are organized according to the production process.

Additional Resources

For online SIC and NAICS manuals and definitions of industry codes, see: http://www.bls.gov/bls/NAICS.htm and http://www.census.gov/eos/www/naics.

For an overview of how historical changes in employment and personal income have affected rural America, see: Whitenar, L.A. and D.A. McGranahan. 2003. "Rural America: Opportunities and Challenges." Amber Waves. February, available at: http://www.ers.usda.gov/Amberwaves/Feb03/features/ruralamerica.htm.

Documentation explaining methods developed by Headwaters Economics for estimating disclosure gaps is available at www.headwaterseconomics.org/eps-hdt.

Data Sources

U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA05.

How has personal income by industry changed recently?

This page describes recent personal income change (in real terms). Industries are organized according to three major categories: non-services related, services related, and government. The personal income data are organized according to the North American Industrial Classification System (NAICS) and reported by place of work.

Personal Income by Industry, 2001-2010 (Thousands of 2011 \$s)

	2001	2010	-Change 2001 2010
Labor Earnings	1,933,388	1,918,827	-14,561
Non-services related	834,101	811,151	-22,949
Farm	40,316	49,457	9,140
Forestry, fishing, & related activities	na	na	na
Mining (including fossil fuels)	na	na	na
Construction	131,664	105,365	-26,300
Manufacturing	662,120	656,330	-5,790
Services related	789,199	878,462	89,263
Utilities	na	13,599	na
Wholesale trade	72,177	102,855	30,678
Retail trade	161,036	125,399	-35,637
Transportation and warehousing	na	68,303	na
Information	34,380	35,013	633
Finance and insurance	42,646	44,921	2,275
Real estate and rental and leasing	54,436	16,520	-37,917
Professional and technical services	47,332	51,018	3,686
Management of companies and enterprises	4,349	20,673	16,324
Administrative and waste services	56,840	75,777	18,937
Educational services	11,362	13,962	2,600
Health care and social assistance	182,389	177,187	-5,203
Arts, entertainment, and recreation	11,857	12,985	1,129
Accommodation and food services	38,212	38,177	-34
Other services, except public administration	72,183	82,074	9,890
Government	211,043	222,768	11,724
Percent of Total			% Change 2001- 2010
Labor Earnings			-0.8%
Non-services related	43.1%	42.3%	-2.8%
Farm	2.1%	2.6%	22.7%
Forestry, fishing, & related activities	na	na	na
Mining (including fossil fuels)	na	na	na
Construction	6.8%	5.5%	-20.0%
Manufacturing	34.2%	34.2%	-0.9%
Services related	40.8%	45.8%	11.3%
Utilities	na	0.7%	na
Wholesale trade	3.7%	5.4%	42.5%
Retail trade	8.3%	6.5%	-22.1%
Transportation and warehousing	na	3.6%	na
Information	1.8%	1.8%	1.8%
Finance and insurance	2.2%	2.3%	5.3%
Real estate and rental and leasing	2.8%	0.9%	-69.7%
Professional and technical services	2.4%	2.7%	7.8%
Management of companies and enterprises	0.2%	1.1%	375.4%
Administrative and waste services	2.9%	3.9%	33.3%
Educational services	0.6%	0.7%	22.9%
Health care and social assistance	9.4%	9.2%	-2.9%
Arts, entertainment, and recreation	0.6%	0.7%	9.5%
Accommodation and food services	2.0%	2.0%	-0.1%
Other services, except public administration	3.7%	4.3%	13.7%
Government	10.9%	11.6%	5.6%

All employment data are reported by place of work. Estimates for data that were not disclosed are shown in italics.

Data Sources: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA05N.

How has personal income by industry changed recently?

What do we measure on this page?

This page describes recent personal income change (in real terms). Industries are organized according to three major categories: non-services related, services related, and government. The personal income data are organized according to the North American Industrial Classification System (NAICS) and reported by place of work.

Services Related: Consists of employment in industries such as retail trade, finance, insurance and real estate, and services.

Non-Services Related: Consists of employment in industries such as farm, mining, and manufacturing.

Government: Consists of federal, military, state and local government employment, and government enterprise.

Why is it important?

Recent personal income trends organized by NAICS offer more detail than the old Standard Industrial Classification (SIC) system, particularly with regard to services related industries. This is especially useful since in many geographies the majority of new personal income growth in recent years has taken place in services related industries.

Although NAICS captures much more detail on personal income from services related sectors, these industries still encompass a wide variety of high and lowwage occupations ranging from jobs in accommodation and food services to professional and technical services. The section in this report titled "*How do wages compare across industries*?" shows the difference in wages between various services related industries and compared to non-services related sectors.

It can be useful to ask whether the historical employment trends shown earlier in this report continue more recently, and what factors are driving a shift in industry makeup and competitive position. It may be the case that the economic role and contribution of public lands have changed along with broader economic shifts in many geographies.

Methods

In 2001, the Bureau of Economic Analysis (BEA) switched to organizing industry-level information according to the newer North American Industrial Classification System (NAICS). An advantage of the NAICS method is the greater amount of detail to describe changes in the service related sectors.

It is not normally appropriate to put SIC and NAICS data in the same tables and figures because of the difference in methods used to organize industry data. The SIC coding system organizes industries by the primary activity of the establishment. In NAICS, industries are organized according to the production process. See the Data Sources and Methods section of this report for more information on the shift from SIC to NAICS.

The terms non-services related and services related are not terms used by the U.S. Department of Commerce. They are used in these pages to help organize the information into easy-to-understand categories.

Some data are withheld by the federal government to avoid the disclosure of potentially confidential information. Headwaters Economics uses supplemental data from the U.S. Department of Commerce to estimate these data gaps. These are indicated in *italics* in tables.

Additional Resources

For online SIC and NAICS manuals and definitions of industry codes, see: http://www.bls.gov/bls/NAICS.htm

For a review of the role of public lands amenities and transportation in economic development, see:

Rasker, R., P.H. Gude, J.A. Gude, J. van den Noort. 2009. "The Economic Importance of Air Travel in High-Amenity Rural Areas." Journal of Rural Studies 25: 343-353., available at: http://headwaterseconomics.com/3wests/Rasker_et_al_2009_Three_Wests.pdf.

For a review of the role of amenities in rural development, see the U.S. Department of Agriculture's Economic Research Service: McGranahan, D. 1999. "Natural Amenities Drive Rural Population Change." Agricultural Economic Report No. (AER781), October. http://www.ers.usda.gov/publications/aer781.

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Data Sources

U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA05N.

Industry Sectors

How has personal income by industry changed recently?

\$s

2011

of

Millions

This page describes recent personal income trends (in real terms) by major industry category (non-services related, services related, and government) and by industry. The personal income data are organized according to the North American Industrial Classification System (NAICS) and reported by place of work.

- From 2001 to 2010, personal income from services related industries grew from \$789 million to \$878 million (in real terms), a 11% increase.
- From 2001 to 2010, personal income from non-services related industries shrank from \$834 million to \$811 million (in real terms), a -3% decrease.
- From 2001 to 2010, personal income from government jobs grew from \$211 million to \$223 million (in real terms), a 6% increase.



Services Related Non-Services Related Government



• From 2001 to 2010, the three industry sectors that added the most new personal income (in real terms) were wholesale trade (\$30.7 million), admin., waste services (\$18.9 million), and management of companies (\$16.3 million).

Data Sources: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA05N.

How has personal income by industry changed recently?

What do we measure on this page?

This page describes recent personal income trends (in real terms) by major industry category (non-services related, services related, and government) and by industry. The personal income data are organized according to the North American Industrial Classification System (NAICS) and reported by place of work.

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Non-Services Related: Consists of employment in industries such as farm, mining, and manufacturing.

Government: Consists of federal, military, state and local government employment, and government enterprise.

Why is it important?

Recent employment trends organized by NAICS offer more detail than the old Standard Industrial Classification (SIC) system, particularly with regard to services related industries. This is especially useful since in most geographies the majority of new job growth in recent years has taken place in services related industries.

It can be useful to ask whether the historical employment trends shown earlier in this report continue more recently, and what factors are driving a shift in industry makeup and competitive position. It may be the case that the economic role and contribution of public lands have changed along with broader economic shifts in many geographies.

Methods

In 2001, the Bureau of Economic Analysis (BEA) switched to organizing industry-level information according to the newer North American Industrial Classification System (NAICS). An advantage of the NAICS method is the greater amount of detail to describe changes in the service related sectors.

It is not normally appropriate to put SIC and NAICS data in the same tables and figures because of the difference in methods used to organize industry data. The SIC coding system organizes industries by the primary activity of the establishment. In NAICS, industries are organized according to the production process. See the Data Sources and Methods section of this report for more information on the shift from SIC to NAICS.

The terms non-services related and services related are not terms used by the U.S. Department of Commerce. They are used in these pages to help organize the information into easy-to-understand categories.

Additional Resources

For online SIC and NAICS manuals and definitions of industry codes, see: http://www.bls.gov/bls/NAICS.htm

For a review of the role of public lands amenities and transportation in economic development, see:

Rasker, R., P.H. Gude, J.A. Gude, J. van den Noort. 2009. "The Economic Importance of Air Travel in High-Amenity Rural Areas." Journal of Rural Studies 25: 343-353., available at: http://headwaterseconomics.com/3wests/Rasker_et_al_2009_Three_Wests.pdf.

For a review of the role of amenities in rural development, see the U.S. Department of Agriculture's Economic Research Service: McGranahan, D. 1999. "Natural Amenities Drive Rural Population Change." Agricultural Economic Report No. (AER781), October. http://www.ers.usda.gov/publications/aer781.

Documentation explaining methods developed by Headwaters Economics for estimating disclosure gaps is available at www.headwaterseconomics.org/eps-hdt.

Data Sources

U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA05N.

How have earnings per job and per capita income changed?

This page describes how average earnings per job and per capita income (in real terms) have changed over time.

Average Earnings Per Job: This is a measure of the compensation of the average job. It is total earnings divided by total employment. Full-time and part-time jobs are counted at equal weight. Employees, sole proprietors, and active partners are included.

Per Capita Income: This is a measure of income per person. It is total personal income (from labor and non-labor sources) divided by total population.

Average Earnings per Job & Per Capita Income, 1970-2010 (2011 \$s)

	1970	1980	1990	2000	2010	-000 Change 2010
Average Earnings per Job	\$35,863	\$35,437	\$36,133	\$41,209	\$39,856	-\$1,353
Per Capita Income	\$22,231	\$25,702	\$28,897	\$37,333	\$35,923	-\$1,410
Percent Change						% Change 2000- 2010
Average Earnings per Job						-3.3%
Per Capita Income						-3.8%



Average Earnings per Job & Per Capita Income, Jefferson County WI

• From 1970 to 2010, average earnings per job grew from \$35,863 to \$39,856 (in real terms), a 11% increase.

• From 1970 to 2010, per capita income grew from \$22,231 to \$35,923 (in real terms), a 62% increase.

Data Sources: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA30.

How have earnings per job and per capita income changed?

What do we measure on this page?

This page describes how average earnings per job and per capita income (in real terms) have changed over time.

Average Earnings per Job: This is a measure of the compensation of the average job. It is total earnings divided by total employment. Full-time and part-time jobs are counted at equal weight. Employees, sole proprietors, and active partners are included.

Per Capita Income: This is a measure of income per person. It is total personal income (from labor and non-labor sources) divided by total population.

Why is it important?

Average earnings per job is an indicator of the quality of local employment. A higher average earnings per job indicates that there are relatively more high-wage occupations. It can be useful to consider earnings against local cost of living indicators.

There are a number of reasons why average earnings per job may decline. These include: (1) more part-time and/or seasonal workers entering the workforce; (2) a rise in low-wage industries, such as tourism-related sectors; (3) a decline of high-wage industries, such as manufacturing; (4) more lower-paid workers entering the workforce; (5) the presence of a university with increasing an enrollment of relatively low-wage students; (6) an influx of workers with low education levels that are paid less; (7) the in-migration of semi-retired workers who work part-time and/or seasonally; and (8) an influx of people who move to an area for quality of life rather than profit-maximizing reasons.

Per capita income is considered one of the most important measures of economic well-being. However, this measure can be misleading. Per capita income is total personal income divided by population. Because total personal income includes non-labor income sources (dividends, interest, rent and transfer payments), it is possible for per capita income to be relatively high due to the presence of retirees and people with investment income. And because per capita income is calculated using total population and not the labor force as in average earnings per job, it is possible for per capita income to be relatively low when there are a disproportionate number of children and/or elderly people in the population.

Additional Resources

For an example of why average earnings per job may decline, one study has recently documented that workers would accept lower wages in order to live closer to environmental amenities. See: Schmidt, L. and P.N. Courant. 2006. "Sometimes Close is Good Enough: The Value of Nearby Environmental Amenities." Journal of Regional Science. 46(5): 931-951).

The Monthly Labor Review Online, published by the Bureau of Labor Statistics, contains several issues related to explaining earnings and wages, by industry, sex, and education achievement. See: http://www.bls.gov/opub/mlr/indexe.htm#Earnings_and_wages.

To see the possible impact of non-labor income sources on per capita income, see previous sections of this report that show the percent contribution of nonlabor to total personal income, or run the EPS-HDT Non-Labor Income report.

For a glossary of terms used by the Bureau of Economic Analysis, see: http://www.bea.gov/glossary/glossary.cfm.

For a comprehensive cost of living index see: http://www.livingwage.geog.psu.edu/

Data Sources

U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA30.

How do wages compare across industries?

This page describes employment and average annual wages by industry. Industries are organized according to three major categories: non-services related, services related, and government.

Employment & Wages by Industry, 2010 (2011 \$s)

	Employment	% of Total Employment	Avg. Annual Wages	% Above or Below Avg.
Total	32,453		\$35,142	
Private	28,443	87.6%	\$34,855	-0.8%
Non-Services Related	10,313	31.8%	\$46,496	32.3%
Natural Resources and Mining	732	2.3%	\$28,681	-18.4%
Agriculture, forestry, fishing & hunting	na	na	na	na
Mining (incl. fossil fuels)	na	na	na	na
Construction	1,032	3.2%	\$43,897	24.9%
Manufacturing (Incl. forest products)	8,549	26.3%	\$48,335	37.5%
Services Related	18,130	55.9%	\$28,232	-19.7%
Trade, Transportation, and Utilities	6,642	20.5%	\$29,395	-16.4%
Information	648	2.0%	\$40,515	15.3%
Financial Activities	941	2.9%	\$32,634	-7.1%
Professional and Business Services	2,643	8.1%	\$31,938	-9.1%
Education and Health Services	3,396	10.5%	\$36,747	4.6%
Leisure and Hospitality	2,977	9.2%	\$10,942	-68.9%
Other Services	881	2.7%	\$20,215	-42.5%
Unclassified	3	0.0%	\$19,601	-44.2%
Government	4,009	12.4%	\$37,195	5.8%
Federal Government	190	0.6%	\$54,987	56.5%
State Government	37	0.1%	\$48,279	37.4%
Local Government	3,782	11.7%	\$36,193	3.0%

This table shows wage data from the Bureau of Labor Statistics, which does not report data for proprietors or the value of benefits and uses slightly different industry categories than those shown on previous pages of this report.



Data Sources: U.S. Department of Labor. 2011. Bureau of Labor Statistics, Quarterly Census of Employment and Wages, Washington, D.C.

How do wages compare across industries?

What do we measure on this page?

This page describes employment and average annual wages by industry. Industries are organized according to three major categories: non-services related, services related, and government.

The table compares level of employment and wages for all sectors of the economy, and shows (on the far right column) whether the sector's wages are above or below the average wage for all industries. The figures compare wages (top figure) by major category (non-services related, services related, and government) and the number of people employed in each category (bottom figure).

Average Annual Wages: This is total annual pay divided by total employment.

Why is it important?

It is often assumed that the only high-wage jobs in rural areas are in manufacturing and natural resource industries (e.g., timber, fossil fuel energy development, and mining). While these often provide the highest average wages, it is also possible for some components of services related industries to offer high wages (e.g., information, financial activities, and professional and business services). In addition, some places may have high average annual wages in a particular sector, but few people employed in that sector. Others may have low wages in a particular sector, and many people employed in that sector.

While nationally nearly all new jobs since 1990 have been in services related industries, they are not equally distributed across the country, and not all geographies are able to attract and retain the relatively high-wage services. Additional research would be needed to determine whether a geography has the elements that need to be in place to attract and keep high-wage services related workers. For example, those elements may include access to reliable transportation including airports, amenities, recreation opportunities, a trained workforce, and good schools. It is also worth investigating whether public lands play a role in attracting high-wage service workers.

In some geographies, the highest-paying jobs are in the public sector (e.g., in the Forest Service and Bureau of Land Management). During times of national recessions, a heavy reliance on government jobs may serve as an economic buffer against employment and earnings declines in the private sector.

Methods

Data are from the Bureau of Labor Statistics, which has the advantage of providing employment and wage data. However, the Bureau of Labor Statistics does not count the self-employed, so the employment numbers may differ from figures provided by other data sources used elsewhere in this report. As reported by the Bureau of Labor Statistics, wages include gross wages and salaries, bonuses, stock options, tips and other gratuities, and the value of meals and lodging.

Depending on the geographies selected, some data may not be available due to disclosure restrictions.

Average annual wages shown on this page is not the same as average earnings per job shown earlier in this report. Average annual wages are calculated from Bureau of Labor Statistics data, which do not include proprietors, and earnings per job are calculated from Bureau of Economic Analysis data, which include proprietors.

Additional Resources

For an overview of how the Bureau of Labor Statistics treats employment, see: http://www.bls.gov/bls/employment.htm.

For an overview of how the Bureau of Labor Statistics treats pay and benefits, see: http://www.bls.gov/bls/wages.htm.

Employment and wage estimates are also available from the Bureau of Labor Statistics for over 800 occupations. Looking at services by occupation, rather than by sector or industry, is helpful since wages vary dramatically across occupations associated with different services. For more information, see: http://www.bls.gov/oes.

For a peer-reviewed journal article and interactive web tool on the importance of transportation to attracting high-wage "knowledge-based" workers to areas with high amenities, see: Rasker, R., P.H. Gude, J.A. Gude, J. van den Noort. 2009. "The Economic Importance of Air Travel in High-Amenity Rural Areas." Journal of Rural Studies 25(2009): 343-353, available at: http://www.headwaterseconomics.org/3wests.php.

See also Knapp, T.A., and P.E. Graves. 1989. On the Role of Amenities in Models of Migration and Regional Development. Journal of Regional Science 29(1): 71-87. This article specifically captures the idea that amenity values are capitalized into wages.

Data Sources

U.S. Department of Labor. 2011. Bureau of Labor Statistics, Quarterly Census of Employment and Wages, Washington, D.C.

How has the unemployment rate changed?

This page describes the average annual unemployment rate and the seasonality of the unemployment rate over time.

Unemployment Rate: The number of people who are jobless, looking for jobs, and available for work divided by the labor force.

Average Annual Unemployment Rate, 1990-2011

	1990	2000	2011	-000 Change 2011
Unemployment Rate	3.9%	2.9%	8.2%	5.3%

Average Annual Unemployment Rate, Jefferson County WI



• Since 1990, the annual unemployment rate ranged from a low of 2.4% in 1999 to a high of 9.4% in 2010.

Seasonal Unemployment Rate, 2008-2012

• The lowest seasonal unemployment rate

was April of 2008. The highest seasonal unemployment rate was Feb. of 2010.

Unemployment Rate (%)	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2008	5.1%	5.3%	5.2%	4.0%	4.0%	4.7%	4.8%	4.8%	4.3%	4.4%	5.1%	6.3%
2009	8.3%	9.5%	10.2%	9.3%	9.4%	10.1%	9.5%	9.3%	8.7%	9.0%	9.0%	9.8%
2010	11.1%	11.6%	11.5%	9.8%	9.4%	9.3%	9.1%	8.8%	8.0%	7.8%	8.1%	8.2%
2011	9.5%	9.8%	9.5%	8.3%	8.0%	8.6%	8.1%	7.8%	7.3%	7.1%	7.0%	7.0%
2012	8.3%	8.5%	8.0%									



Seasonal Unemployment Rate, Jefferson County WI

Data Sources: U.S. Department of Labor. 2012. Bureau of Labor Statistics, Local Area Unemployment Statistics, Washington, D.C.

How has the unemployment rate changed?

What do we measure on this page?

This page describes the average annual unemployment rate and the seasonality of the unemployment rate over time.

The figure Average Annual Unemployment Rate shows the rate of unemployment since 1990. The figure Seasonal Unemployment Rate shows the rate of unemployment for the last five years, for each month of the year. This figure is useful to see if there are higher rates of unemployment during certain months of the year, and whether this has changed over time.

Unemployment Rate: The number of people who are jobless, looking for jobs, and available for work divided by the labor force.

Why is it important?

The rate of unemployment is an important indicator of economic well-being. This figure can go up during national recessions and/or when more localized economies are affected by area downturns. There can also be significant seasonal variations in unemployment.

It is important to know how the unemployment rate has changed over time, whether there are periods of the year where the rate is higher or lower, and if this seasonality of unemployment has changed over time. Geographies that are heavily dependent on the tourism industry, for example, may show higher rates of unemployment during Spring and Fall "shoulder seasons." Places that rely heavily on the construction industry, for example, may have lower unemployment rates during the non-winter months.

As the economy of a place diversifies, it can become more resilient and less affected by downturns and rising unemployment rates. This is particularly true of places that are able to attract in-migration, retain manufacturing, and support a high-tech economy.

Public land agencies sometimes provide seasonal employment and may have an effect on the local rate of unemployment.

Methods

Data begin in 1990 because prior to that the Bureau of Labor Statistics used a different method to calculate the unemployment rate.

Additional Resources

For more information on unemployment, see related Bureau of Labor Statistics resources, available at: http://www.bls.gov/cps/faq.htm#Ques3.

For more information on business cycles, see related National Bureau of Business Research, available at: http://www.nber.org.

For research findings on economic resiliency, see: Chapple, K., and T. W. Lester. 2010. "The resilient regional labor market? The U.S. case." Cambridge Journal of Regions, Economy and Society 3:85-104.

Data Sources

U.S. Department of Labor. 2012. Bureau of Labor Statistics, Local Area Unemployment Statistics, Washington, D.C.

What are the commuting patterns in the region?

This page describes the flow of earnings into the county by residents who work in neighboring counties (an "inflow" of earnings because they bring money home); the flow of earnings by residents from neighboring counties who commute into the county for work (an "outflow" of earnings because they take their earnings with them); and the difference between the two ("net residential adjustment").

Cross-County Earnings, 1990-2010

	1990	2000	2010	Change 2000-2010
Total Personal Income (2011 \$s)	1,964,587	2,839,280	3,006,757	167,478
Cross-County Commuting Flows				
Inflow of Earnings	418,740	782,854	802,363	19,509
Outflow of Earnings	322,803	519,462	496,636	-22,826
Net Residential Adjustment (Inflow - Outflow)	95,937	263,392	305,727	42,335
Percent of Total				% Change 2000- 2010
Net Residential Adjustment Share of Total				

 Personal Income
 4.9%
 9.3%
 10.2%
 0.9%

 Data are only available at the county level (i.e., this page will be blank for aggregated geographies, states, and the U.S.). Total personal income is reported

by place of residence.

- From 1990 to 2010, inflow of earnings grew from \$418.7 million to \$802.4 million (in real terms), a 92 percent increase.
- From 1990 to 2010, outflow of earnings grew from \$322.8 million to \$496.6 million (in real terms), a 54 percent increase.

Millions of 2011 \$s



Inflow & Outflow of Earnings, Jefferson County WI

Net Residential Adjustment as Share of Total Personal Income, Jefferson County WI



• From 1990 to 2010, net residential adjustment (inflow - outflow) changed from 4.88 to 10.17 percent of total personal income.

Data Sources: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Tables CA30 & CA91.

What are the commuting patterns in the region?

What do we measure on this page?

This page describes the flow of earnings into the county by residents who work in neighboring counties ("inflow" of earnings because they bring money home); the flow of earnings by residents from neighboring counties who commute into the county for work ("outflow" of earnings because they take their earnings with them); and the difference between the two ("net residential adjustment").

If net residential adjustment is positive (inflow exceed outflow), it means county residents commute outside the county for work and bring in more personal income than leaves the county in net terms. If net residential adjustment is negative (outflow exceeds inflow), it means the economy of the county attracts workers from nearby counties and loses more personal income than it brings into the county in net terms.

Inflow of Earnings: These are the gross annual earnings of in-commuters; i.e., from people who work out of the county, and bring money home.

Outflow of Earnings: These are the gross annual earnings of out-commuters; i.e., from people who work in the county, but live elsewhere and take their earnings with them.

Net Residence Adjustment: This is the net inflow of labor earnings of inter-area commuters.

Note: Data are only available at the county level (i.e., this page will be blank for profiles of aggregated geographies, states, and the U.S.).

Why is it important?

One indicator of economic health for a county is whether it is able to attract workers from nearby counties. This could be the case if a county has a surplus of jobs and serves as a magnet for workers in adjacent counties and would be indicated by a negative net residential adjustment. Another possibility is that housing in the county has driven some workers to live in relatively more affordable neighboring counties that have become "bedroom communities."

Alternatively, it is possible that a county with a positive net residential adjustment is a more desirable place to live (people are willing to commute and/or telecommute to work in order to live there for quality of life reasons). Commuting and telecommuting workers may also contribute to the economy by spending their money in the local area (essentially exporting work and importing wages).

Long-term trends in inflow, outflow, and net residential adjustment help to describe the role that the county's economy has played over time in a multi-county area. For example, a net residential adjustment that was positive but is today negative indicates that county residents used to have to commute to neighboring counties for work but today the reverse is true and the county attracts workers from neighboring counties.

If net residential adjustment is a large share of earnings (e.g., 10% of higher) it may indicate that the appropriate unit of analysis is a multi-county area that encompasses the entire labor market.

Methods

Data begin in 1990 because that is the year the Bureau of Economic Analysis began reporting this data set.

According to the Bureau of Economic Analysis, "Estimates of gross commuters' earnings inflow and outflow are derived from the residence adjustment estimates, which are the estimates of the net inflow of the earnings of inter-area commuters. In the personal income accounts, the residence adjustment estimates are added to place-of-work earnings estimates to yield place-of-residence earnings estimates. This conversion process is an important part of the local area economic accounts because personal income is a place-of-residence measure, whereas the data used to estimate over 60 percent of personal income is reported on a place-of-work basis."

For a description of the methods used by the Bureau of Economic Analysis to estimate the flow of earnings across counties, see: http://www.bea.gov/regional/reis. Select Table CA91 for any geography. When data are displayed, select the question mark icon for definitions and a brief description of methods.

Additional Resources

For a glossary of terms used by the Bureau of Economic Analysis with definitions, see: http://www.bea.gov/regional/definitions.

The Bureau of Economic Analysis also reports the number of workers commuting between counties. These data are limited to Decennial Census years (1970, 1980, 1990 and 2000); see: http://www.bea.gov/regional/reis/jtw.

For an example of a study where a negative residential adjustment is considered a positive indicator, see Mack, E., T.H. Grubesic and E. Kessler. 2007. "Indices of Industrial Diversity and Regional Economic Composition." Growth and Change 38(3): 474-509.

Data Sources

U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Tables CA30 & CA91.

Do national recessions affect local employment?

This page describes long-term trends in employment during national recession and recovery periods.

Employment Change During National Recessions, 1976-2012

	Jan '80 - July '80	July '81 - Nov '82	July '90 - Mar '91	Mar '01 - Nov '01	Dec '07 - June '09
Employment Change (Net Jobs)	12	889	-1,527	-852	-266
Employment Change (Monthly % Change)	0.0%	2.9%	-4.2%	-2.0%	-0.7%

Employment Change During Recovery from National Recessions, 1976-2012

Monthly % Change

	Aug '80	Dec '82	Apr '91	Dec '01	July '09
	- June '81	- June '90	- Feb '01	- Nov '07	- Mar. '12
Employment Change (Net Jobs)	832	7,003	5,554	-263	-592
Employment Change (Monthly % Change)	2.7%	23.0%	15.4%	-0.6%	-1.5%



Employment & National Recessions, Jefferson County WI

Employment Change During Recessions & Recovery Periods, Jefferson County WI



• In the recovery period (Dec '82-Jun '90) following the 1981-1982 recession, employment grew by 7,003 jobs, a 0.3% monthly increase.

increase.

Blue vertical bars in the figures above represent the last five recession periods: January 1980 to July 1980; July 1981 to November 1982; July 1990 to March 1991; March 2001 to November 2001; and December 2007 to June 2009. The green columns in the figure above represent the intervening recovery periods.

Data Sources: U.S. Department of Labor. 2012. Bureau of Labor Statistics, Local Area Unemployment Statistics, Washington, D.C.; National Bureau of Economic Research. 2009. U.S. Business Cycle Expansions and Contractions, Cambridge, MA..

Do national recessions affect local employment?

What do we measure on this page?

This page describes long-term trends in employment during national recession and recovery periods.

The figure Employment and National Recessions shows long-term change in employment against periods of national recession (blue bars) and recovery. The figure Employment During Recessions and Recovery Periods shows the percent gain or loss in employment during periods of national recession (blue bars) and recovery (green bars).

<u>Recession</u>: According to the National Bureau of Economic Research: "A recession is a significant decline in economic activity spread across the economy, lasting more than a few months, normally visible in real GDP, real income, employment, industrial production, and wholesale-retail sales. A recession begins just after the economy reaches a peak of activity and ends as the economy reaches its trough. Between trough and peak, the economy is in an expansion."

Why is it important?

One measure of economic well-being is the resilience of the local economy during periods of national recession. It is a positive sign if local employment continues to grow (or does not decline) during a recession.

Another sign of economic well-being is how well the local economy recovers from a recession, measured as growth of employment from the trough (at the depth of the recession) to the peak (just before the next period of decline).

As the economy of a place diversifies, it can become more resilient and less affected by economic downturns. This is particularly true of places that are able to attract in-migration, retain manufacturing, and support a high-tech economy.

Government employment, including in public land agencies, can help to absorb some of the losses in private sector economic activity during a recession.

Additional Resources

For information regarding data collection and methodology for labor force statistics compiled by the Bureau of Labor Statistics, see http://www.bls.gov/lau/laumthd.htm. Please note that Local Area Unemployment Statistics data prior to 1990 are no longer support by the Bureau of Labor Statistics.

For a definition of a recession and recovery periods, see the National Bureau of Economic Research: http://www.nber.org/cycles/recessions.html; and National Bureau of Economic Research, Inc. 2009. U.S. Business Cycle Expansions and Contractions, available at: http://www.nber.org/cycles/cyclesmain.html.

For a list of national recessions and recovery periods, see: http://www.nber.org/cycles/cyclesmain.html.

For research findings on economic resiliency, see: Chapple, K., and T. W. Lester. 2010. "The resilient regional labor market? The U.S. case." Cambridge Journal of Regions, Economy and Society 3:85-104.

Data Sources

U.S. Department of Labor. 2012. Bureau of Labor Statistics, Local Area Unemployment Statistics, Washington, D.C.; National Bureau of Economic Research. 2009. U.S. Business Cycle Expansions and Contractions, Cambridge, MA..

How does performance compare to the benchmark?

This page describes key performance indicators for the selected geography and compares them to the selected benchmark area. (If no custom benchmark area was selected, EPS-HDT defaults to benchmarking against the U.S.) Performance indicators are organized by groups (trends, prosperity, stress, and structure) that highlight potential competitive strengths and weaknesses.

Rela	ative Performance, 2010	Jefferson County WI	United States	Ratio of Jefferson County WI to United States
Trends	Population (percent change, 2000-2010)	10.1%	9.6%	
	Employment (percent change, 2000-2010)	2.2%	5.1%	
	Personal Income (percent change, 2000-2010)	5.9%	14.0%	
	Average Earnings per Job (percent change, 2000-2010)	-3.3%	2.3%	
	Per Capita Income (percent change, 2000-2010)	-3.8%	4.0%	
	Average Earnings per Job	\$39,856	\$53,347	
ity	Per Capita Income	\$35,923	\$41,197	
osper	Average Annual Wages - Services Related	\$28,230	\$46,145	
Pro	Average Annual Wages - Non-Services Related	\$46,496	\$56,169	
	Average Annual Wages - Government Related	\$37,195	\$49,691	
SSS	Unemployment Rate (change 2000-2011)	5.3%	4.9%	
Stre	Unemployment Rate	8.2%	8.9%	
	Percent of Employment in Proprietors	27.7%	21.7%	
	Percent of Personal Income in Non-Labor	33.4%	35.2%	I
ture	Percent of Services Related Jobs	62.8%	70.9%	
Struc	Percent of Non-Services Related Jobs	27.4%	14.9%	
	Percent of Government Jobs	9.1%	14.2%	
	Commuting (net residential adjustment share of personal income)	15.9%	0.0%	
Com	muting statistics are displayed only when comparing a count	v to a benchmark cou	ntv.	-2.0 -1.0 0.0 1.0 2.0 3.0

Commuting statistics are displayed only when comparing a county to a benchmark county.

• Jefferson County WI is most different from the benchmark in percent of non-services related jobs, average earnings per job (percent change, 2000-2010), and percent of employment in proprietors.

Data Sources: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Tables CA05N, CA25N, CA30, & CA91; U.S. Department of Labor. 2011. Bureau of Labor Statistics, Quarterly Census of Employment and Wages, Washington, D.C.; U.S. Department of Labor. 2012. Bureau of Labor Statistics, Local Area Unemployment Statistics, Washington, D.C.

How does performance compare to the benchmark?

What do we measure on this page?

This page describes key performance indicators for the selected geography and compares them to the selected benchmark area. (If no custom benchmark area was selected, EPS-HDT defaults to benchmarking against the U.S.) Performance indicators are organized by groups (trends, prosperity, stress, and structure) that highlight potential competitive strengths and weaknesses.

Some indicators require a judgment call to decide whether they represent a positive or negative indicator of well-being. For example, having a high percentage of personal income in a place in the form of non-labor income could mean that place has done a good job of attracting retirees and investment income. However, it could also mean there is very little labor income, so non-labor income is relatively larger.

The term "benchmark" in this report should not be construed as having the same meaning as in the National Forest Management Act (NFMA).

Why is it important?

A number of indicators determine the economic health of a place. No single indicator should be used by itself. Rather, a range of indicators should be analyzed together to get a comprehensive view of the economy.

When considering the benefits of growth, it is important to distinguish between standard of living (such as earnings per job and per capita income) and quality of life (such as leisure time, crime rate, and sense of well-being).

In some cases it may be appropriate to compare a local economy to the U.S. economy. In most cases, however, it will be more useful to compare county or regional economies with other similar county or regional economies. For example, if the county being analyzed is small and rural, it should be compared to similar counties because comparing against the U.S. will include data from large metropolitan areas.

Additional Resources

Additional information for a range of geographies and measures can be obtained by running other EPS-HDT reports.

Data Sources

U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Tables CA05N, CA25N, CA30, & CA91; U.S. Department of Labor. 2011. Bureau of Labor Statistics, Quarterly Census of Employment and Wages, Washington, D.C.; U.S. Department of Labor. 2012. Bureau of Labor Statistics, Local Area Unemployment Statistics, Washington, D.C.

Benchmarks

How does performance compare to the benchmark?

This page describes trends in key performance indicators (change in population, employment, real personal income, and the unemployment rate) for the selected geography and compares them to the selected benchmark area. Blue vertical bars indicate periods of national recession.



Data Sources: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA30; U.S. Department of Labor. 2012. Bureau of Labor Statistics, Local Area Unemployment Statistics, Washington, D.C..

How does performance compare to the benchmark?

What do we measure on this page?

This page describes trends in key performance indicators (change in population, employment, real personal income, and the unemployment rate) for the selected geography and compares them to the selected benchmark area. Blue vertical bars indicate periods of national recession.

Population, employment, and real personal income indicators are indexed to 1970 so that data from geographies of different sizes can be compared on the same figure. The unemployment rate is shown as a percent. The figures are most useful for showing the relative difference in the rate of change for each indicator.

The term "benchmark" in this report should not be construed as having the same meaning as in the National Forest Management Act (NFMA).

Why is it important?

This page offers an at-a-glance view of long-term economic performance. It allows the user to see if the selected geography performs differently than a selected benchmark area and how it is subject to national business cycles.

Additional Resources

Additional information for a range of geographies and measures can be obtained by running other EPS-HDT reports.

Data Sources

U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C. Table CA30; U.S. Department of Labor. 2012. Bureau of Labor Statistics, Local Area Unemployment Statistics, Washington, D.C..

Data Sources & Methods

Data Sources

The EPS-HDT Measures report uses published statistics from government sources that are available to the public and cover the entire country. All data used in EPS-HDT can be readily verified by going to the original source. The contact information for databases used in this profile is:

County Business Patterns Census Bureau, U.S. Department of Commerce <u>http://www.census.gov/epcd/cbp/view/cbpview.html</u> Tel. 301-763-2580

Local Area Unemployment Statistics
 Bureau of Labor Statistics, U.S. Department of Labor
 <u>http://www.bls.gov/lau
 Tel. 202-691-6392
 }
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</u>

 Quarterly Census of Employment and Wages Bureau of Labor Statistics, U.S. Department of Labor <u>http://www.bls.gov/cew</u> Tel. 202-691-6567

- 〈 Regional Economic Information System Bureau of Economic Analysis, U.S. Department of Commerce <u>http://bea.gov/bea/regional/data.htm</u> Tel. 202-606-9600
- (Population Division Census Bureau, U.S. Department of Commerce. <u>http://www.census.gov/population/www/</u> Tel. 866-758-1060

Artional Bureau of Economic Research

 http://www.nber.org/cycles/recessions.html
 Tel. 617-868-3900

Methods

EPS-HDT core approaches

EPS-HDT is designed to focus on long-term trends across a range of important measures. Trend analysis provides a more comprehensive view of changes than spot data for select years. We encourage users to focus on major trends rather than absolute numbers.

EPS-HDT displays detailed industry-level data to show changes in the composition of the economy over time and the mix of industries at points in time.

EPS-HDT employs cross-sectional benchmarking, comparing smaller geographies such as counties to larger regions, states, and the nation, to give a sense of relative performance.

EPS-HDT allows users to aggregate data for multiple geographies, such as multi-county regions, to accommodate a flexible range of user-defined areas of interest and to allow for more sophisticated cross-sectional comparisons.

SIC to NAICS

For over sixty years, starting in the 1930s, the Standard Industrial Classification (SIC) system has served as the structure for the collection, aggregation, presentation, and analysis of the U.S. economy. Under SIC, which employed a four-digit coding structure, an industry consists of a group of establishments primarily engaged in producing or handling the same product or group of products or in rendering the same services. As the U.S. economy shifted from a primary emphasis on manufacturing to a more complex services economy, SIC became less useful as a tool for describing the economy's changing industrial composition.

The North American Industry Classification System (NAICS), developed using a production-oriented conceptual framework, groups establishments into industries based on the activity in which they are primarily engaged. NAICS uses a six-digit hierarchical coding system to classify all economic activity into twenty industry sectors. Five sectors are mainly goods-producing sectors and fifteen are entirely services-producing sectors.

County Business Patterns started organizing their data using NAICS in 1998, Census in 2000, and Bureau of Economic Analysis's Regional Economic Information System in 2001. Because the methods underlying SIC and NAICS are fundamentally different (what was sold vs. how it was produced), NAICS is not backward compatible with SIC. There are a few circumstances where it is acceptable to show uninterrupted trends across the SIC-NAICS discontinuity. Total personal income, total labor income, and non-labor income can all be plotted continuously without a problem. In addition, a few industries can also be plotted without a break, though this is not the case for services.

Adjusting dollar figures for inflation

Because a dollar in the past was worth more than a dollar today, data reported in current dollar terms should be adjusted for inflation. The U.S. Department of Commerce reports personal income figures in terms of current dollars. All income data in EPS-HDT are adjusted to real (or constant) dollars using the Consumer Price Index. Figures are adjusted to the latest date for which the annual Consumer Price Index is available.

Data gaps and estimation

Some data are withheld by the federal government to avoid the disclosure of potentially confidential information. Headwaters Economics uses supplemental data from the U.S. Department of Commerce to estimate these data gaps. These are indicated in *italics* in tables. Documentation explaining methods developed by Headwaters Economics for estimating disclosure gaps is available at www.headwaterseconomics.org/eps-hdt.