

NEWS RELEASE



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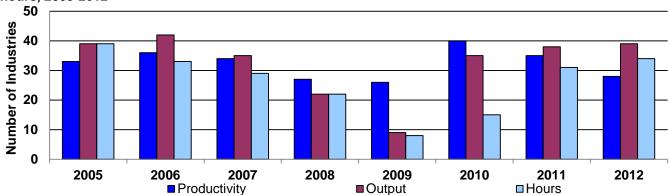
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PRODUCTIVITY AND COSTS BY INDUSTRY: SELECTED SERVICE-PROVIDING AND MINING INDUSTRIES, 2012

Labor productivity – defined as output per hour – rose in 48 percent of the 58 service-providing and mining industries studied in 2012, the U.S. Bureau of Labor Statistics reported today. This was down from 60 percent in 2011. **Unit labor costs**, which reflect the total labor costs required to produce a unit of output, declined in 17 percent of the industries in 2012, compared to 31 percent in 2011.

Output rose in more industries in 2012 than in any year since 2006, while hours rose in more industries than in any year since 2005. (See chart 1 and table 1.) Output increased in 39 of the 58 service-providing and mining industries studied, while hours rose in 34 industries. The percentage of industries where output increased but hours rose more than output was the highest since the series began in 1987.

Chart 1. Number of service-providing and mining industries with increases in productivity, output and hours, 2005-2012



Labor compensation rose in 84 percent of the industries studied. Unit labor costs fell in 8 of 53 service-providing industries in 2012, down from 17 industries in 2011, and in 2 of the 5 mining industries. The industries with declines in unit labor costs all posted increases in productivity, which offset movements in hourly compensation.

The latest productivity measures for industries presented here and for those in other sectors are available on the BLS Labor Productivity and Costs website at www.bls.gov/lpc/iprprodydata.htm.

Industry Productivity Hours Series Changes

Beginning with this news release, labor hours for service-providing and mining industries represent hours worked. See Technical Note for more information about how hours worked are derived.

Service-Providing Industries: Output per hour increased in 2012 in 26 of the 53 industries studied. In most of these industries, productivity rose as output growth was accompanied by declines or more modest increases in hours. Three industries posted double-digit productivity gains as a result: radio broadcasting; wireless telecommunications carriers; and photofinishing.

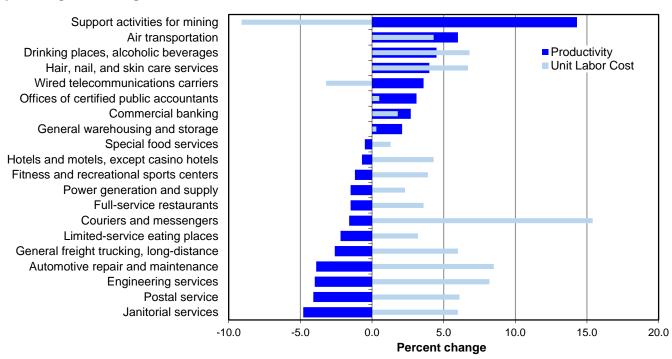
In a few industries, productivity rose despite declining output, as hours were reduced even more than output: natural gas distribution; newspaper publishers; video tape and disc rental; photography studios, portrait; and funeral homes and funeral services.

Productivity and cost measures are published in this release for the first time for four industries: water, sewage and other systems (NAICS 2213); offices of certified public accountants (NAICS 541211); golf courses and country clubs (NAICS 71391); and fitness and recreational sports centers (NAICS 71394). Productivity rose in 2012 in offices of certified public accountants and in golf courses and country clubs, but fell in water, sewage and other systems and in fitness and recreational sports centers.

Mining Industries: Productivity rose in the overall mining sector in 2012, as output increased slightly more than hours. Output per hour also increased in two of the five detailed mining industries studied. Productivity rose sharply in support activities for mining, and also increased in nonmetallic mineral mining and quarrying. In both industries the gains in productivity offset increases in hourly compensation, reducing unit labor costs.

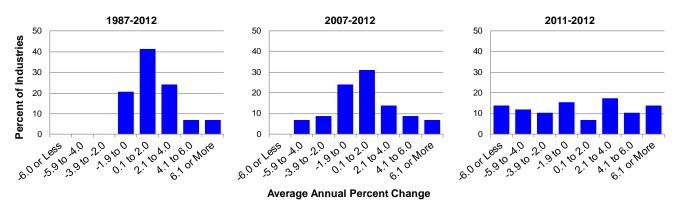
Largest Industries: Chart 2 shows the range of productivity and unit labor cost changes in 2012 in the 20 largest service-providing and mining industries studied. Output rose in all eight of the industries with productivity increases, led by support activites for mining, where strong output growth outpaced the increase in hours. Productivity fell the most in janitorial services, where modest output growth was met with a greater increase in hours. Unit labor costs increased in all except two of the industries: support activities for mining and wired telecommunications carriers.

Chart 2. Percent change in labor productivity and unit labor costs in the largest (by employment) service-providing and mining industries, 2011-2012



Long-Term Trends: More industries posted productivity growth over the longer term than in 2012. Chart 3 contrasts the distribution of productivity changes during the 1987-2012 and 2007-2012 periods with those in the most recent year. Between 1987 and 2012 labor productivity increased in 79 percent of the detailed service-providing and mining industries studied, while between 2007 and 2012 it increased in 60 percent of the industries. In contrast, in 2012 productivity rose in less than half of the industries and productivity performance was more widely distributed: 26 percent of industries posted productivity declines of 4.0 percent or greater, while 24 percent posted productivity gains of 4.1 percent or more.

Chart 3. Distribution of average annual percent change in labor productivity, 1987-2012, 2007-2012 and 2011-2012



Revisions: The measures in this news release incorporate data from the 2012 Service Annual Survey published by the Census Bureau. The hours measures incorporate the annual benchmark revision of the BLS Current Employment Statistics (CES) survey published in February 2014. For the first time, labor hours in this news release represent hours at work. Data on hours paid from the CES were adjusted using industry hours-worked to hours-paid ratios derived from National Compensation Survey (NCS) data. All of the measures for 2012 in this release are preliminary and subject to revision.

Other: While the rates of change reported in this news release are rounded to one decimal place, all industry productivity percent changes are calculated using index numbers rounded to three decimal places. Year-to-year movements in industry productivity may be erratic, particularly in smaller industries. The annual measures based on sample data may differ from measures generated by a census of establishments in the industry. Annual changes in an industry's output and use of labor may reflect cyclical changes in the economy as well as long-term trends. As a result, long-term productivity trends tend to be more reliable indicators of industry performance than year-to-year changes. The industries included in this release are classified according to the 2007 NAICS.

More detailed data for industries covered in this release and for additional industries are available on the BLS Labor Productivity and Costs website at www.bls.gov/lpc. Data include productivity and related indexes; rates of change; and levels of industry employment, hours, nominal value of production, and labor compensation. Additional information can be obtained by calling the Division of Industry Productivity Studies (202-691-5618) or by sending a request by e-mail to dipsweb@bls.gov. Information in this report will be made available to sensory-impaired individuals upon request. Voice phone: 202-691-5618; TDD message referral phone number: 1-800-877-8339.

Customers can subscribe to the industry productivity program's news releases on the BLS website at https://subscriptions.bls.gov/accounts/USDOLBLS/subscriber/new.

Technical Note

Labor Productivity: The industry labor productivity measures describe the relationship between industry output and the labor time involved in its production. They show the changes from period to period in the amount of goods and services produced per hour. Although the labor productivity measures relate output to hours of all persons in an industry, they do not measure the specific contribution of labor or any other factor of production. Rather, they reflect the joint effects of many influences, including changes in technology; capital investment; utilization of capacity, energy, and materials; the use of purchased services inputs, including contract employment services; the organization of production; managerial skill; and the characteristics and effort of the workforce.

Output: Industry output is measured as an annual-weighted index of the changes in the various products or services (in real terms) provided for sale outside the industry. Real industry output is usually derived by deflating nominal sales or values of production using BLS price indexes, but for some industries it is measured by physical quantities of output.

Industry output measures are constructed primarily using data from the economic censuses and annual surveys of the U.S. Census Bureau, U.S. Department of Commerce, together with information on price changes primarily from BLS. Other data sources include the Energy Information Administration, U.S. Department of Energy; the Bureau of Transportation Statistics, U.S. Department of Transportation; the U.S. Geological Survey, U.S. Department of the Interior; the U.S. Postal Service; the Postal Rate Commission; and the Federal Deposit Insurance Corporation.

Labor Hours: Labor hours reflect annual hours worked by all employed persons in an industry. Data on industry employment and hours come primarily from the BLS Current Employment Statistics (CES) survey and Current Population Survey (CPS). CES data on the number of total and nonsupervisory worker jobs held by wage and salary workers in nonfarm establishments are supplemented with CPS self-employed and unpaid family worker data to estimate industry employment. Hours worked estimates are derived using CES and CPS employment, CES data on average weekly hours paid of nonsupervisory workers, CPS data on hours of supervisory, self-employed, and unpaid family workers, and ratios of hours-worked to hours-paid based on data from the National Compensation Survey (NCS). For some industries, employment and hours data are supplemented or further disaggregated using data from the BLS Quarterly Census of Employment and Wages (QCEW), the Census Bureau, or other sources. Other sources of employment and hours data for some service industries include the Association of American Railroads, the U.S. Department of Transportation, and the U.S. Postal Service. Hours worked are estimated separately for different types of workers and then are directly aggregated; no adjustments for labor composition are made.

Unit Labor Costs: Unit labor costs represent the cost of labor required to produce one unit of output. The unit labor cost indexes are computed by dividing an index of nominal labor compensation by an index of real industry output. Unit labor costs also describe the relationship between compensation per hour and real output per hour (labor productivity). Increases in hourly compensation increase unit labor costs; increases in labor productivity offset compensation increases and lower unit labor costs.

Labor Compensation: Labor compensation, defined as payroll plus supplemental payments, is a measure of the cost to the employer of securing the services of labor. Payroll includes salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind. Supplemental payments include both legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of Federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all

programs not specifically required by legislation, such as the employer portion of private health insurance and pension plans. Industry compensation measures are constructed primarily using data from the BLS Quarterly Census of Employment and Wages (QCEW), and the economic censuses and annual surveys of the Census Bureau, U.S. Department of Commerce.

Table 1. Percent change in labor productivity, unit labor costs, and related data, 2011-2012

Table 1. Percent change in labor productivity, t	IIII IADO	· ·						
Industry	NAICS code	2012 Employment (thousands)		Percen	t change, 2011-2012		I Init Inter	
			Labor productivity	Output	Hours	Labor compensation	Unit labor costs	
Mining Industries								
Mining	21	816.6	0.6	8.4	7.7	11.1	2.5	
Oil and gas extraction	1	191.1	-5.8	12.2	19.1	14.2	1.7	
Oil and gas extraction.		191.1	-5.8	12.2	19.1	14.2	1.7	
Mining, except oil and gas	1	221.1	0.4	-2.2	-2.6	2.2	4.5	
Coal mining.		84.9	-0.3	-7.5	-7.2	-2.1	5.9	
Metal ore mining	1	46.1	-7.2	0.6	8.4	11.0	10.4	
Nonmetallic mineral mining and quarrying	1	90.1	5.9	3.0	-2.8	2.0	-0.9	
Support activities for mining		404.4	14.3	24.6	9.1	13.3	-9.1	
Support activities for mining	2131	404.4	14.3	24.6	9.1	13.3	-9.1	
Utilities								
Power generation and supply	2211	396.2	-1.5	-4.1	-2.6	-1.9	2.3	
Natural gas distribution	1	109.0	1.5	-0.7	-2.1	1.3	1.9	
Water, sewage and other systems	2213	47.6	-4.0	-4.0	0.0	-1.0	3.2	
Transportation and Warehousing								
Air transportation	481	429.7	6.0	0.6	-5.0	4.9	4.3	
Line-haul railroads	1	184.3	1.1	1.6	0.5	2.5	0.9	
Truck transportation		1,555.2	-1.3	3.3	4.7	7.8	4.3	
General freight trucking	1	1,114.1	-2.1	1.7	3.9	7.0	5.2	
General freight trucking, local.		290.1	0.2	4.7	4.5	6.6	1.8	
General freight trucking, long-distance		824.0	-2.6	1.0	3.7	7.0	6.0	
Used household and office goods moving		90.5	-9.5	2.7	13.5	6.2	3.4	
Postal service	491	611.2	-4.1	-6.4	-2.4	-0.7	6.1	
Postal service		611.2	-4.1	-6.4	-2.4	-0.7	6.1	
Couriers and messengers	1	561.7	-1.6	-1.0	0.6	14.3	15.4	
Warehousing and storage.	1	690.4	2.2	7.0	4.7	8.0	0.9	
Warehousing and storage.		690.4 583.1	2.2 2.1	7.0 8.2	4.7 5.9	8.0 8.5	0.9 0.3	
General warehousing and storage	1	52.2	2.1	1.1	-1.2	6.0	4.9	
Information								
Publishing	511	782.1	0.6	0.8	0.2	4.9	4.1	
Newspaper, book, and directory publishers		493.5	0.5	-2.9	-3.4	0.9	3.9	
Newspaper publishers	1	241.6	2.7	-2.1	-4.7	-3.4	-1.4	
Periodical publishers		121.6	2.3	0.4	-1.8	5.9	5.4	
Book publishers	1	76.3	-2.3	-6.1	-3.8	6.5	13.3	
Software publishers	5112	288.6	-2.6	3.5	6.3	8.2	4.5	
Motion picture and video exhibition		128.3	6.5	6.4	-0.2	7.2	0.8	
Broadcasting, except Internet	515	289.5	5.1	3.0	-2.0	6.3	3.2	
Radio and television broadcasting	5151	215.3	6.8	4.2	-2.5	8.6	4.2	
Radio broadcasting	51511	93.0	13.0	8.0	-4.4	10.5	2.3	
Cable and other subscription programming	5152	74.2	2.9	2.1	-0.8	1.9	-0.2	
Wired telecommunications carriers	5171	594.0	3.6	2.7	-0.8	-0.6	-3.2	
Wireless telecommunications carriers	5172	159.9	19.6	8.1	-9.6	11.0	2.7	
Finance and Insurance								
Commercial banking	52211	1,320.6	2.7	3.5	0.8	5.4	1.8	
Real Estate and Rental and Leasing								
Passenger car rental		107.2	-1.9	7.1	9.1	8.0	0.8	
Truck, trailer and RV rental and leasing	1	59.6	-6.7	1.5	8.8	7.4	5.8	
Video tape and disc rental	53223	29.8	22.5	-12.5	-28.6	-21.8	-10.6	
Professional and Technical Services								
Offices of certified public accountants	1	429.7	3.1	7.9	4.7	8.4	0.5	
Tax preparation services	1	143.4	-2.8	-3.8	-1.0	9.4	13.6	
Architectural services	54131	174.9	0.9	0.1	-0.9	3.8	3.7	

Table 1. Percent change in labor productivity, unit labor costs, and related data, 2011-2012 — Continued

able 1. I ercent change in labor productivity, unit labor costs, and related date			,					
Industry	NAICS code	2012 Employment (thousands)	Percent change, 2011-2012					
			Labor productivity	Output	Hours	Labor compensation	Unit labor costs	
Engineering services	54133	930.6	-4.0	-2.6	1.5	5.4	8.2	
Advertising agencies	54181	199.1	5.9	10.7	4.6	7.6	-2.8	
Photography studios, portrait	541921	69.3	4.7	-1.0	-5.4	-2.3	-1.3	
Administrative and Waste Services								
Employment placement agencies	561311	241.2	8.1	8.3	0.2	12.9	4.2	
Travel arrangement and reservation services	5615	221.2	-5.1	3.2	8.7	8.1	4.7	
Travel agencies	56151	101.5	-1.0	0.7	1.7	9.9	9.1	
Janitorial services	56172	1,305.3	-4.8	0.8	5.9	6.9	6.0	
Health Care and Social Assistance								
Medical and diagnostic laboratories	6215	254.2	-5.6	-1.0	4.9	6.7	7.8	
Medical laboratories	621511	173.6	-5.0	-0.3	4.9	7.2	7.6	
Diagnostic imaging centers	621512	80.6	-6.5	-2.1	4.8	6.1	8.4	
Arts, Entertainment, and Recreation								
Amusement and theme parks	71311	159.6	-11.6	-1.6	11.3	14.9	16.8	
Golf courses and country clubs	71391	362.5	2.7	3.8	1.1	6.3	2.4	
Fitness and recreational sports centers	71394	537.6	-1.2	3.4	4.6	7.4	3.9	
Bowling centers	71395	67.8	-5.6	-2.9	2.8	4.4	7.6	
Accommodation and Food Services								
Accommodation and food services	72	12,079.6	-1.6	2.6	4.3	6.3	3.5	
Accommodation	721	1,854.1	-0.8	0.6	1.4	4.5	3.9	
Traveler accommodation	7211	1,776.8	-0.8	0.4	1.2	4.4	4.0	
Hotels and motels, except casino hotels	72111	1,482.4	-0.7	0.9	1.6	5.2	4.3	
Food services and drinking places	722	10,225.5	-1.5	3.4	5.0	6.8	3.4	
Full-service restaurants	7221	4,805.7	-1.5	3.7	5.2	7.4	3.6	
Limited-service eating places.	7222	4,328.0	-2.2	3.1	5.3	6.3	3.2	
Special food services	7223	720.2	-0.5	4.1	4.7	5.5	1.3	
Drinking places, alcoholic beverages	7224	371.6	4.5	1.2	-3.1	8.1	6.8	
Other Services								
Automotive repair and maintenance	8111	1,073.6	-3.9	1.3	5.3	9.9	8.5	
Reupholstery and furniture repair		20.9	-6.5	-1.6	5.2	8.4	10.2	
Personal care services.	8121	1,135.3	3.6	3.9	0.3	11.4	7.2	
Hair, nail and skin care services	81211	935.4	4.0	2.8	-1.2	9.7	6.7	
Funeral homes and funeral services	81221	104.5	5.3	-0.4	-5.4	4.2	4.6	
Drycleaning and laundry services	8123	328.7	-2.2	4.6	6.9	8.0	3.2	
Coin-operated laundries and drycleaners	1	46.4	-13.5	0.5	16.2	16.2	15.5	
Drycleaning and laundry services	1	158.8	-9.8	-0.9	9.9	9.2	10.2	
Linen and uniform supply		123.5	9.1	10.5	1.3	5.5	-4.5	
Photofinishing		13.5	20.4	10.2	-8.5	-14.0	-21.9	
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Table 2. Average annual percent change in labor productivity, unit labor costs, and related data, 1987-2012

Table 2. Average annual percent change in labor productivity		labor costs, and		related	2012	
		Average annua		al percent change, 1987-2012		
Industry	NAICS code	Labor productivity	Output	Hours	Labor compensation	Unit labor costs
Mining Industries						
Mining	21	-0.5	0.4	0.9	5.5	5.0
	211	0.1	0.4	0.9	5.8	5.5
•	2111				5.8	
9	212	0.1	0.3	0.2	2.3	5.5
6, I 6		1.3	0.2	-1.0		2.1
Coal mining		1.3	-0.5	-1.8	1.2	1.7
Metal ore mining.		0.1	1.0	0.9	5.2	4.2
0 1 7 0	2123	1.3	0.3	-1.0	2.5	2.2
	213	1.7	4.8	3.1	8.6	3.6
Support activities for mining	2131	1.7	4.8	3.1	8.6	3.6
Power generation and supply	2211	1.7	0.5	-1.2	2.8	2.3
Natural gas distribution		2.6	1.2	-1.4	3.4	2.2
	2213	-0.5	1.0	1.5	5.6	4.5
Transportation and Warehousing	2210	-0.5	1.0	1.5	3.0	7.5
·	481	3.2	2.6	-0.6	2.9	0.3
·	482111	3.8	2.0	-1.7	1.5	-0.4
	484	0.4	1.8	1.3	2.7	0.9
'	4841	1.1	2.3	1.1	3.2	0.9
	48411	2.8	3.6	0.9	3.8	0.3
	48412	1.2	2.2	1.0	2.4	0.1
Used household and office goods moving.	48421	-1.6	-1.0	0.6	2.0	3.1
Postal service.	491	0.7	-0.5	-1.3	2.9	3.5
Postal service.	4911	0.7	-0.5	-1.3	2.9	3.5
Couriers and messengers.	492	-0.8	1.1	1.9	4.9	3.8
Warehousing and storage ¹	493	2.7	5.9	3.0	5.3	-0.5
Warehousing and storage ¹		2.7	5.9	3.0	5.3	-0.5
General warehousing and storage ¹		4.9	8.1	3.0	5.8	-2.1
- · · · · · · · · · · · · · · · · · · ·	49311	-0.3	2.9	3.2	4.4	1.4
Information						
Publishing	511	3.8	3.4	-0.3	4.9	1.4
	5111	0.1	-1.8	-1.9	2.1	4.0
Newspaper publishers	51111	-1.0	-3.8	-2.8	0.5	4.4
Periodical publishers	51112	0.6	-0.1	-0.7	3.8	3.8
Book publishers	51113	-0.3	-0.8	-0.5	4.4	5.2
Software publishers.	5112	12.5	19.1	5.9	11.3	-6.6
Motion picture and video exhibition	51213	1.8	1.8	0.1	3.4	1.6
Broadcasting, except Internet		2.2	2.6	0.4	4.6	1.9
	5151	1.3	0.8	-0.5	3.3	2.5
	51511	3.5	2.5	-1.0	3.9	1.4
3	5152	3.8	7.3	3.3	10.1	2.6
	5171	4.3	3.3	-1.0	1.9	-1.3
Wireless telecommunications carriers.	5172	10.9	20.3	8.5	12.0	-6.9
Finance and Insurance						
Commercial banking	52211	3.6	3.6	0.0	5.5	1.9
Real Estate and Rental and Leasing						
Passenger car rental.	532111	2.4	2.8	0.4	4.9	2.0
,	53212	2.5	1.9	-0.6	3.1	1.1
·	53223	6.7	0.7	-5.6	-1.6	-2.4
Professional and Technical Services						
						1 20
Offices of certified public accountants ²		1.9	2.3	0.5	5.3	2.9
Tax preparation services.	541211 541213 54131	1.9 0.5 1.3	2.3 2.4 1.9	0.5 1.9 0.7	5.3 4.5 4.1	2.9 2.0 2.1

See footnotes at end of table.

Table 2. Average annual percent change in labor productivity, unit labor costs, and related data, 1987-2012 — Continued

	NAICS	Average annual percent change, 1987-2012					
Industry	code	Labor productivity	Output	Hours	Labor compensation	Unit labor costs	
Engineering services.	54133	0.7	2.4	1.7	6.1	3.5	
Advertising agencies	54181	2.4	2.8	0.4	4.7	1.9	
Photography studios, portrait.	541921	0.9	1.6	0.8	3.5	1.9	
Administrative and Waste Services							
Employment placement agencies ³	561311	6.2	7.1	0.8	6.0	-1.0	
Travel arrangement and reservation services ²	5615	6.6	3.5	-2.9	1.6	-1.8	
Travel agencies	56151	5.6	4.0	-1.5	3.3	-0.6	
Janitorial services	56172	1.8	3.4	1.6	5.2	1.7	
Health Care and Social Assistance							
Medical and diagnostic laboratories ³	6215	2.4	5.7	3.3	6.0	0.2	
Medical laboratories ³	621511	2.2	5.4	3.2	5.5	0.1	
Diagnostic imaging centers ³	621512	2.7	6.3	3.6	7.0	0.7	
Arts, Entertainment, and Recreation							
Amusement and theme parks	71311	-0.9	2.2	3.1	6.4	4.1	
Golf courses and country clubs ⁴	71391	-0.7	0.0	0.7	4.2	4.2	
Fitness and recreational sports centers ⁴	71394	4.9	3.9	-1.0	2.6	-1.2	
Bowling centers	71395	0.0	-1.7	-1.7	1.1	2.8	
Accommodation and Food Services							
Accommodation and food services	72	0.8	2.1	1.3	5.0	2.9	
Accommodation	721	1.7	2.3	0.6	4.5	2.2	
Traveler accommodation	7211	1.7	2.3	0.6	4.6	2.2	
Hotels and motels, except casino hotels	72111	1.0	1.6	0.6	4.6	3.0	
Food services and drinking places.	722	0.5	2.0	1.5	5.2	3.1	
Full-service restaurants.	7221	0.5	2.1	1.6	6.0	3.8	
Limited-service eating places.	7222	0.5	2.2	1.7	5.0	2.7	
Special food services	7223	1.4	2.4	1.0	3.7	1.3	
Drinking places, alcoholic beverages	7224	-0.1	-0.7	-0.5	2.6	3.3	
Other Services							
Automotive repair and maintenance		0.9	1.2	0.3	3.6	2.4	
Reupholstery and furniture repair		-0.8	-3.3	-2.4	0.5	3.8	
Personal care services.	8121	2.3	3.4	1.0	5.2	1.7	
Hair, nail and skin care services.	81211	2.3	3.0	0.7	4.9	1.9	
Funeral homes and funeral services.	81221	-0.4	-0.5	-0.1	3.7	4.2	
Drycleaning and laundry services	8123	1.5	0.6	-0.9	2.6	2.0	
Coin-operated laundries and drycleaners		1.8	0.4	-1.4	2.7	2.3	
Drycleaning and laundry services.	81232	0.7	-1.1	-1.7	1.3	2.4	
Linen and uniform supply Photofinishing	81233 81292	1.5 3.5	2.2 -3.7	0.6 -6.9	4.0 -2.9	1.8 0.8	
i notolilistility	01232	3.5	-3.1	-0.9	-2.5	0.0	

¹ For NAICS industries 2213, 484, 4841, 48411, 493, 4931, 49311, and 49312, average annual percent changes are for 1992-2012.

² For NAICS industries 541211 and 5615, average annual percent changes are for 1997-2012.

³ For NAICS industries 561311, 6215, 621511, and 621512, average annual percent changes are for 1994-2012.

⁴ For NAICS industries 71391 and 71394, average annual percent changes are for 2002-2012.