

NEWS RELEASE



For release 10:00 a.m. (EDT) Thursday, June 10, 2010

USDL-10-0775

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NOTE: This release was reissued on Friday, July 9, 2010 to correct errors in measures of employment, hours, and productivity for agriculture, construction, and mining machinery manufacturing (NAICS 3331) and machinery manufacturing (NAICS 333). Other minor corrections have been made to measures for the following industries: NAICS 321, 3219, 482111, 491, 4911, 541921, 561311, 56172. Corrections have been made to tables 1 and 2; no changes were required to the text and the charts in the news release.

PRODUCTIVITY AND COSTS BY INDUSTRY: MANUFACTURING, MINING, AND SELECTED SERVICE-PROVIDING INDUSTRIES, 2008

Labor productivity – defined as output per hour – rose in 46 percent of the 138 detailed manufacturing, mining, and service-providing industries studied in 2008, the U.S. Bureau of Labor Statistics reported today. This was down from the 62 percent that recorded productivity increases the previous year. **Unit labor costs**, which reflect the total labor costs required to produce a unit of output, declined in 30 percent of the industries, compared to 20 percent in 2007.

Fewer industries recorded productivity increases in 2008 than in any other year since 1988. Output rose in fewer industries and hours declined in more industries in 2008 compared to 2007. Output rose in 41 of the 138 industries examined, compared to 72 in 2007; hours declined in 101, compared to 79 industries in 2007. The percent of industries with output increases declined each year from 2005 to 2008, with the largest drop occurring in 2008. (See chart 1.) The percent of industries with declining hours rose each year from 2006 to 2008, with the largest increase occurring in 2008.

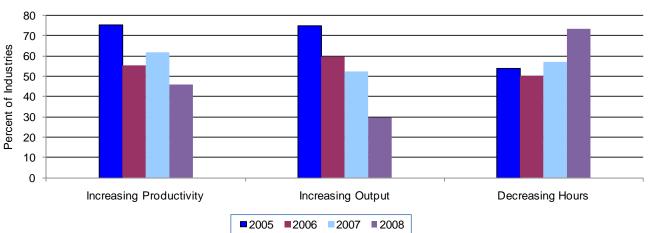


Chart 1. Percent of manufacturing, mining, and service-providing industries with increases in productivity and output and decreases in hours, 2005-2008

Over the 1987 to 2008 period, labor productivity increased in 92 percent of the industries. Unit labor costs declined in 18 percent of the industries. (See table 2.) Chart 2 shows a more negative distribution of productivity growth rates for the industries studied in the most recent year compared to those for the longer-term period from 1987 to 2008.

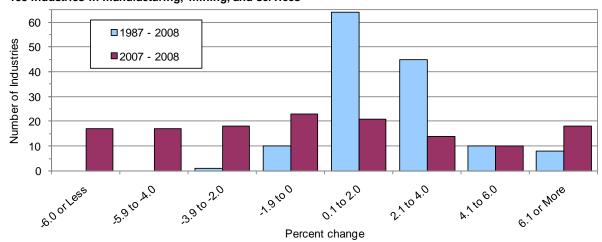


Chart 2. Distribution of annual percent change in output per hour, 1987-2008 and 2007-2008: 138 industries in manufacturing, mining, and services

With this release, productivity and cost measures are published for the first time for general freight trucking, local (NAICS 48411) and for general freight trucking (NAICS 4841). The latter combines the previously published measures for long-distance general freight trucking with the new measures for local freight trucking. Trends in the local freight trucking industry are strongly affected by business cycles and the overall economic environment. While productivity in this industry declined slightly in 2008, between 1994 and 2008 productivity increased at an average rate of 3.1 percent per year. The widespread adoption of onboard computer systems, satellite-based tracking, and wireless internet have contributed to substantial increases in efficiency in this industry.

Industry labor productivity measures are updated as data become available. Productivity data through 2008 for industries in wholesale and retail trade were published on August 28, 2009 and can be found on the BLS Labor Productivity and Costs web site at www.bls.gov/lpc.

Manufacturing

Labor productivity increased in 35 of the 86 detailed manufacturing industries in 2008, compared with 51 in 2007. (See table 1.) Productivity growth was highest in the computer and electronic products subsector, led by the computer and peripheral equipment and magnetic media manufacturing and reproduction industries. Output rose in only 20 percent of the industries, compared to 45 percent in 2007, while hours declined in 78 percent of the industries, compared to 64 percent in 2007. However, unit labor costs declined in a greater number of industries than in the previous year – about 23 percent of the industries in 2008, compared to 14 percent in 2007.

Service-Providing

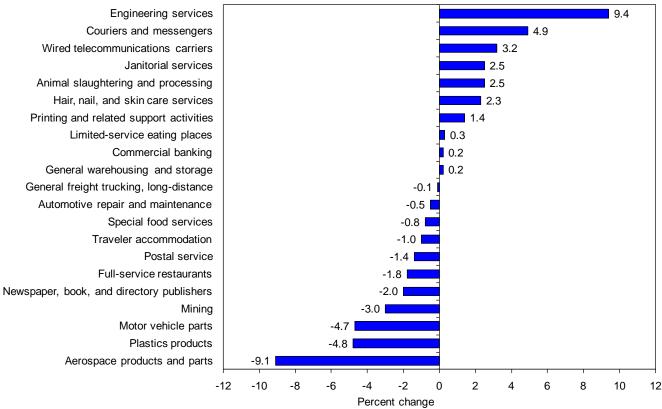
Labor productivity rose in slightly fewer of the measured service-providing industries in 2008 than in 2007. Led by wireless telecommunications carriers and employment placement agencies, labor productivity increased in 26 of the 47 detailed service-providing industries studied in 2008, compared with 32 in 2007. Output rose in 43 percent of the service-providing industries in 2008, compared to 64 percent in 2007, while labor hours declined in 70 percent, compared to 49 percent in 2007. Unit labor costs declined in 43 percent of the service-providing industries in 2008, compared to 32 percent in 2007.

Mining

Labor productivity in the overall mining sector fell 3.0 percent in 2008, an improvement over the 7.6 percent decline in 2007. Although productivity fell or showed little change in the four mining extraction industries, productivity grew rapidly in support activities for mining, where output rose sharply while hours increased only modestly. Unit labor costs fell in only one of the five mining industries in 2008.

The chart below shows the change in productivity in the largest (those with employment over 500,000) manufacturing and service industries and in the overall mining sector. Among these industries, engineering services recorded the largest productivity increase and aerospace products and parts had the largest decline.

Chart 3. Percent change in output per hour in the largest (by employment) manufacturing, mining, and service-providing industries, 2007-2008



Year-to-year movements in industry productivity measures 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 changes tend to be more reliable indicators of industry performance than year-to-year changes.

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. For manufacturing industries, industry output reflects sectoral value of production, derived by adjusting shipments for changes in inventories and removing intra-industry transactions.

Industry output measures are constructed primarily using data from the economic censuses and annual surveys of the Census Bureau, U.S. Department of Commerce, together with information on price changes primarily from BLS. Output measures for some mining and utilities industries are based on physical quantity data from the Energy Information Administration, U.S. Department of Energy, while output measures for some transportation industries are based on physical quantity data from the Bureau of Transportation Statistics, U.S. Department of Transportation. Other data sources for some industries include 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: The primary source of data on industry employment and hours is the BLS Current Employment Statistics (CES) survey. The CES provides monthly data on the number of total and production or nonsupervisory worker jobs held by wage and salary workers in nonfarm establishments, as well as data on the average weekly hours of production or nonsupervisory workers in those establishments. CES data are supplemented or further disaggregated for some industries using data from the BLS Quarterly Census of Employment and Wages (QCEW), the Bureau of the Census, or other sources. Data from the Current Population Survey (CPS) also supplement the CES data. CPS data are used to estimate employment and hours of self-employed and unpaid family workers in each industry. Data from the CPS, together with the CES data, are also used to estimate the historical average weekly hours of nonproduction or supervisory workers for each industry. 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 of all persons in an industry are treated as homogeneous and are directly aggregated.

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 industry 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.

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 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.

Revisions: This news release incorporates data from the Census Bureau's 2007 Economic Census and the annual benchmark revision of the BLS Current Employment Statistics (CES) survey published in February 2010. Although labor productivity and cost data for manufacturing industries were published on a NAICS 2007 basis in

December 2009, this is the first release of productivity measures for the service-providing and mining industries classified according to the 2007 NAICS. Series for some industries may have changed as a result. All industry labor productivity and cost series are now on a NAICS 2007 basis.

The mining industry measures have been revised to include, for the first time, the output of nonemployer firms and the employment, hours, and labor compensation of self-employed and unpaid family workers. Although small, the revision reflects a more complete accounting of the economic activity in each industry, and improves consistency with the measures for other sectors that account for the activity of these firms and workers.

All of the measures for 2008 in this release are preliminary and subject to revision.

Additional Information: Measures for the two added industries were developed using standard BLS methods as described above. While the rates of change reported by BLS in this news release are rounded to one decimal place, all industry productivity percent changes are calculated using index numbers to three decimal places.

Three industries that were previously available on the BLS web site are also included in this release: coin-operated laundries and drycleaners (NAICS 812310); drycleaning and laundry services (except coin-operated) (NAICS 812320); and linen and uniform supply (NAICS 81233).

Industry productivity and related indexes and rates of change can be accessed online by visiting the Labor Productivity and Costs web site at http://www.bls.gov/lpc. Levels of industry employment, hours, labor compensation, and value of production, and the implicit price deflator for output for these industries are available upon request 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.

To subscribe to the industry productivity program's electronic notification service, send an e-mail to dipsnews@bls.gov with the word "subscribe" in the subject line.

Table 1. Percent change in output per hour, output, hours, compensation, and unit labor costs, 2007-2008

	ercent change in output per nour, output, nours,	2008					
NAICS	Industry	Employment	Output			Labor	Unit labor
code		(thousands)	per hour	Output	Hours	compensation	costs
	Mining Industries						
21	Mining	725	-3.0	0.9	4.0	13.4	12.4
211	Oil and gas extraction	161	-9.0	1.5	11.6	17.7	15.9
2111 212	Oil and gas extraction Mining, except oil and gas	161 230	-9.0 -0.7	1.5 -1.4	11.6 -0.7	17.7 5.2	15.9 6.7
2121	Coal mining	82	-5.7 -5.7	2.2	8.4	12.2	9.7
2122	Metal ore mining	40	-3.4	6.9	10.6	16.1	8.6
2123	Nonmetallic mineral mining and quarrying	108	0.1	-10.7	-10.8	-6.8	4.4
213 2131	Support activities for mining Support activities for mining	334 334	23.8 23.8	29.3 29.3	4.4 4.4	15.0 15.0	-11.0 -11.0
2131		334	23.0	27.3	4.4	13.0	-11.0
	Utilities						
2211 2212	Power generation and supply Natural gas distribution	404 107	-4.1 0.8	-1.6 1.0	2.6 0.2	3.7 3.5	5.4 2.5
2212		107	0.6	1.0	0.2	3.5	2.5
044	Manufacturing						
311 3111	Food Animal food	1511 53	-0.4	-0.6	-0.1 5.8	1.7 3.0	2.3 3.6
3111	Grain and oilseed milling	62	-6.0 -3.7	-0.6 1.4	5.8	4.0	2.5
3113	Sugar and confectionery products	74	-7.7	-8.2	-0.6	-5.5	3.0
3114	Fruit and vegetable preserving and specialty	173	-2.3	-2.5	-0.1	0.6	3.1
3115 3116	Dairy products Animal slaughtering and processing	132 514	7.9 2.5	2.3 1.6	-5.2 -0.9	5.6 0.4	3.2 -1.2
3117	Seafood product preparation and packaging	39	-12.8	-13.6	-1.0	-5.2	9.8
3118	Bakeries and tortilla manufacturing	300	-7.5	-5.1	2.6	5.0	10.7
3119	Other food products	164	1.4	-0.1	-1.5	0.4	0.5
312	Beverages and tobacco products	200	-2.5	-6.9	-4.5	1.6	9.1
3121 3122	Beverages Tobacco and tobacco products	179 22	0.1 -13.0	-5.3 -10.6	-5.4 2.7	2.9 -4.6	8.6 6.7
313	Textile mills	161	-13.6	-15.6	-14.2	-12.6	3.5
3131	Fiber, yarn, and thread mills	37	1.3	-13.4	-14.2	-12.0 -14.8	-1.6
3132	Fabric mills	72	5.3	-13.5	-17.8	-12.0	1.7
3133	Textile and fabric finishing mills	52	-14.7	-22.2	-8.8	-11.8	13.3
314	Textile product mills	163	-3.2	-8.6	-5.7	-5.2	3.8
3141 3149	Textile furnishings mills Other textile product mills	82 81	-2.6 -0.5	-12.6 -1.1	-10.2 -0.6	-4.9 -5.4	8.8 -4.4
315	Apparel	221	-1.8	-13.7	-12.1	-10.4	3.9
3151	Apparel knitting mills	32	-3.4	-15.7	-12.1	-15.2	-0.2
3152	Cut and sew apparel	172	-1.6	-13.2	-11.9	-9.2	4.6
3159	Accessories and other apparel	17	0.0	-14.6	-14.6	-13.1	1.8
316	Leather and allied products	36	3.6	-5.7	-9.0	-3.1	2.8
3161 3162	Leather and hide tanning and finishing Footwear	5 17	-2.7 18.1	-12.3 11.6	-9.9 -5.5	-0.5 2.6	13.5 -8.1
3169	Other leather products	15	-4.8	-16.5	-12.2	-8.4	9.7
321	Wood products	486	-2.0	-14.3	-12.5	-11.3	3.4
3211	Sawmills and wood preservation	106	3.5	-9.4	-12.5	-5.6	4.2
3212	Plywood and engineered wood products	90	-4.0	-18.3	-14.9	-15.6	3.3
3219 322	Other wood products	290 446	-3.4	-14.6	-11.6	-11.7 1.0	3.4
322 3221	Paper and paper products Pulp, paper, and paperboard mills	446 127	-0.6 0.5	-4.3 -4.1	-3.7 -4.6	-1.0 -0.8	3.5 3.4
3222	Converted paper products	319	-1.2	-4.5	-3.4	-1.0	3.6
323	Printing and related support activities	623	1.4	-6.0	-7.3	-6.3	-0.4
3231	Printing and related support activities	623	1.4	-6.0	-7.3	-6.3	-0.4
324	Petroleum and coal products	118	-3.0	0.6	3.7	0.0	-0.6
3241	Petroleum and coal products	118	-3.0	0.6	3.7	0.0	-0.6
325 3251	Chemicals Basic chemicals	855 153	-6.7 -15.1	-9.6 -12.3	-3.1 3.4	-0.4 1.9	10.1 16.1
3252	Resin, rubber, and artificial fibers	104	-13.1 -8.5	-12.3	-5.2	-1.9 -1.0	14.0
3253	Agricultural chemicals	37	-1.1	-8.6	-7.6	1.5	11.0
3254	Pharmaceuticals and medicines	292	-1.3	-4.2	-2.9	-0.6	3.8
3255 3256	Paints, coatings, and adhesives Soaps, cleaning compounds, and toiletries	62 112	-4.0 -5.6	-9.1 -9.6	-5.3 -4.3	-1.8 1.2	8.0 12.0
3259	Other chemical products and preparations	96	0.8	-9.0 -6.0	-4.3 -6.7	-5.4	0.6
326	Plastics and rubber products	734	-5.3	-9.2	-4.2	-4.9	4.8
3261	Plastics products	589	-4.8	-8.8	-4.2	-5.2	3.9
3262	Rubber products	145	-7.5	-11.4	-4.2	-3.7	8.7

Table 1. Percent change in output per hour, output, hours, compensation, and unit labor costs, 2007-2008

14070 17 1	output per nout, output, nouts,	2008	2008 Percent change, 2007-2008				
NAICS	Industry	Employment	Output			Labor	Unit labor
code	iliddstry	(thousands)	per hour	Output	Hours	compensation	costs
		,	•	Î		_	
327 3271	Nonmetallic mineral products	481 57	-4.5 1.4	-11.9	-7.7 0.1	-4.0	9.0
3271	Clay products and refractories Glass and glass products	57 104	-1.4 -4.0	-9.4 -3.5	-8.1 0.5	-7.7 1.1	1.8 4.8
3272	Cement and concrete products	223	-4.0 -7.1	-3.5 -17.6	-11.3	-5.4	14.8
3274	Lime and gypsum products	18	-1.7	-7.2	-5.6	-1.7	5.8
3279	Other nonmetallic mineral products	79	1.2	-6.1	-7.2	-4.8	1.4
331	Primary metals	443	4.9	0.0	-4.7	2.3	2.3
3311	Iron and steel mills and ferroalloy production	100	8.5	6.7	-1.7	7.5	0.8
3312	Steel products from purchased steel	62	-4.6	-7.9	-3.5	6.9	16.1
3313	Alumina and aluminum production	66	-1.6	-9.4	-8.0	1.6	12.2
3314	Other nonferrous metal production	67	4.6	2.1	-2.4	0.5	-1.6
3315	Foundries	148	-7.1	-13.4	-6.8	-3.7	11.2
332	Fabricated metal products	1550	1.4	-3.2	-4.6	0.7	4.1
3321	Forging and stamping	107	0.1	-3.6	-3.7	1.7	5.5
3322	Cutlery and hand tools	49	-3.3	-11.8	-8.8	-2.2	10.9
3323	Architectural and structural metals	412	-0.9	-4.5	-3.7	0.0	4.8
3324 3325	Boilers, tanks, and shipping containers Hardware	98 30	-2.1 7.7	-2.4 -13.8	-0.3 -19.9	8.7 -6.0	11.3 9.0
3326	Spring and wire products	53	4.3	-6.6	-10.4	-3.3	3.5
3327	Machine shops and threaded products	370	3.7	-0.9	-4.4	1.0	1.9
3328	Coating, engraving, and heat treating metals	145	1.2	-0.1	-1.3	-1.2	-1.2
3329	Other fabricated metal products	286	4.0	-2.0	-5.8	0.9	2.9
333	Machinery	1201	-1.4	-2.0	-0.6	0.9	2.9
3331	Agriculture, construction, and mining machinery	244	2.2	4.0	1.7	5.9	1.8
3332	Industrial machinery	124	-9.7	-13.6	-4.4	-3.8	11.3
3333	Commercial and service industry machinery	105	6.3	-0.4	-6.2	1.0	1.4
3334	HVAC and commercial refrigeration equipment	151	-0.5	-2.9	-2.4	1.5	4.5
3335 3336	Metalworking machinery Turbine and power transmission equipment	195 106	0.1 -2.7	0.5 -0.1	0.4 2.7	-2.8 5.2	-3.3 5.3
3339	Other general purpose machinery	277	-2.7 -4.3	-0.1 -3.9	0.4	0.3	4.4
334 3341	Computer and electronic products Computer and peripheral equipment	1255 185	6.7 32.8	6.9 35.8	0.3 2.2	-3.0 7.8	-9.3 -20.6
3342	Communications equipment	130	-4.7	-2.4	2.2	7.0 -7.7	-20.6 -5.5
3343	Audio and video equipment	28	-15.7	-20.2	-5.3	-13.1	8.8
3344	Semiconductors and electronic components	434	4.4	3.1	-1.3	-6.8	-9.6
3345	Electronic instruments	444	2.3	4.3	2.0	-0.2	-4.3
3346	Magnetic media manufacturing and reproduction	35	19.3	3.7	-13.1	-5.7	-9.0
335	Electrical equipment and appliances	429	-2.8	-3.3	-0.5	1.4	4.9
3351	Electric lighting equipment	59	2.0	-3.1	-5.0	-0.2	3.0
3352	Household appliances	71	-3.9	-10.9	-7.3	-6.0	5.4
3353	Electrical equipment	161	-4.2	-0.1	4.2	4.4	4.5
3359	Other electrical equipment and components	138	-2.3	-2.6	-0.3	1.8	4.6
336	Transportation equipment	1622	-5.5	-12.7	-7.7	-4.2	9.8
3361 3362	Motor vehicles	192	-9.3 F.0	-19.9	-11.7	-10.4	11.8
3363	Motor vehicle bodies and trailers Motor vehicle parts	142 550	-5.8 -4.7	-21.9 -17.1	-17.1 -13.0	-15.5 -9.9	8.2 8.7
3364	Aerospace products and parts	508	-9.1	-6.9	2.4	3.3	10.9
3365	Railroad rolling stock	29	16.7	18.0	1.1	2.1	-13.4
3366	Ship and boat building	157	12.9	2.9	-8.9	5.4	2.5
3369	Other transportation equipment	44	3.8	9.0	5.0	2.9	-5.6
337	Furniture and related products	513	3.8	-8.9	-12.2	-9.2	-0.3
3371	Household and institutional furniture	335	4.8	-10.1	-14.2	-10.7	-0.7
3372	Office furniture and fixtures	133	0.9	-5.1	-5.9	-5.7	-0.6
3379	Other furniture-related products	45	2.5	-13.6	-15.7	-11.5	2.4
339	Miscellaneous manufacturing	699	1.6	1.1	-0.4	-0.2	-1.4
3391	Medical equipment and supplies	324	2.7	6.2	3.4	2.1	-3.9
3399	Other miscellaneous manufacturing	375	-0.6	-4.3	-3.7	-2.8	1.6
	Transportation and Warehousing					ĺ	
481	Air transportation	427	-1.4	-3.1	-1.8	-0.6	2.6
482111	Line-haul railroads	184	-1.0	-1.0	0.1	0.8	1.8
4841	General freight trucking	1196	0.2	-3.1	-3.3	-4.3	-1.2
48411	General freight trucking, local	315	-0.1	-5.8	-5.7	-6.2	-0.4
48412	General freight trucking, long-distance	881	-0.1	-2.4	-2.3	-3.6	-1.2
48421	Used household and office goods moving	95 747	6.5	-5.7	-11.4	-4.4	1.3
491 4911	Postal service	747 747	-1.4 1.4	-4.9 4.0	-3.5	-5.1 5.1	-0.3 -0.3
4711	Postal service	/4/	-1.4	-4.9	-3.5	-5.1	-0.3

Table 1. Percent change in output per hour, output, hours, compensation, and unit labor costs, 2007-2008

14610 11 1	Fercent change in output per nour, output, nours,	2008	Percent change, 2007-2008				
NAICS	Industry	Employment	Output		g -,	Labor	Unit labor
code	,	(thousands)	per hour	Output	Hours	compensation	costs
492 493 4931 49311 49312	Couriers and messengers Warehousing and storage Warehousing and storage General warehousing and storage Refrigerated warehousing and storage	612 681 681 574 49	4.9 0.3 0.3 0.2 3.0	-6.2 4.1 4.1 4.6 0.6	-10.5 3.8 3.8 4.4 -2.3	-5.6 3.1 3.1 2.7 3.8	0.7 -1.0 -1.0 -1.8 3.2
	Information						
511 5111 5112 51213 515 5151 5152 5171 5172	Publishing Newspaper, book, and directory publishers Software publishers Motion picture and video exhibition Broadcasting, except internet Radio and television broadcasting Cable and other subscription programming Wired telecommunications carriers Wireless telecommunications carriers	912 648 265 133 328 241 88 683 203	1.7 -2.0 4.3 -3.3 2.4 0.0 6.3 3.2 18.8	-1.3 -6.1 4.2 -2.2 0.3 -1.0 1.8 2.9 12.8	-2.9 -4.1 -0.1 1.1 -2.0 -1.0 -4.2 -0.3 -5.1	1.3 -2.8 6.7 -0.8 -1.4 -4.0 7.0 0.9 5.0	2.6 3.4 2.4 1.5 -1.7 -3.1 5.1 -1.9 -6.9
50044	Finance and Insurance						
52211	Commercial banking	1358	0.2	0.7	0.5	-2.4	-3.0
532111 53212 53223	Real Estate and Rental and Leasing Passenger car rental Truck, trailer, and RV rental and leasing Video tape and disc rental	124 60 109	4.9 -4.7 -6.9	-4.0 -5.5 -10.3	-8.4 -0.8 -3.7	-9.0 3.1 -11.3	-5.3 9.1 -1.1
	Professional and Technical Services						
541213 54131 54133 54181 541921	Tax preparation services Architectural services Engineering services Advertising agencies Photography studios, portrait	152 234 969 195 80	-3.3 4.6 9.4 4.6 3.3	1.2 1.2 9.6 3.0 0.2	4.7 -3.2 0.1 -1.5 -3.1	0.7 -1.1 4.6 1.3 -1.2	-0.5 -2.3 -4.5 -1.7 -1.4
	Administrative and Waste Services						
561311 56151 56172	Employment placement agencies Travel agencies Janitorial services	260 119 1225	16.7 1.4 2.5	4.8 -1.2 2.9	-10.2 -2.6 0.3	-1.4 0.3 4.7	-5.9 1.6 1.8
	Health Care and Social Assistance						
6215 621511 621512	Medical and diagnostic laboratories Medical laboratories Diagnostic imaging centers	227 152 75	11.8 9.4 15.5	8.9 7.1 11.4	-2.5 -2.1 -3.5	3.4 5.1 0.0	-5.0 -1.9 -10.2
	Arts, Entertainment, and Recreation						
71311 71395	Amusement and theme parks Bowling centers	138 76	0.7 1.6	-1.0 -4.2	-1.7 -5.7	8.1 -2.0	9.2 2.3
72 721 7211 722 7221 7222 7223 7224	Accommodation and Food Services Accommodation and food services Accommodation Traveler accommodation Food services and drinking places Full-service restaurants Limited-service eating places Special food services Drinking places (alcoholic beverages)	11742 1900 1825 9842 4617 4178 686 362	-0.9 -0.8 -1.0 -0.8 -1.8 -0.3 -0.8 -2.0	-1.6 -2.2 -2.3 -1.4 -3.2 0.5 -0.9 -2.3	-0.7 -1.4 -1.3 -0.6 -1.4 0.2 0.0 -0.4	2.3 1.1 1.0 2.7 2.1 3.3 3.8 1.2	4.0 3.4 3.4 4.1 5.5 2.7 4.7 3.6
8111	Other Services Automotive repair and maintenance	1115	-0.5	-5.1	-4.6	-4.5	0.7
81142 81211 81221 8123 812310 812320 81233 81292	Reupholstery and furniture repair Hair, nail, and skin care services Funeral homes and funeral services Drycleaning and laundry services Coin-operated laundries and drycleaners Drycleaning and laundry services Linen and uniform supply Photofinishing	25 917 108 370 49 183 137 24	-3.5 2.3 -5.1 0.6 -4.4 2.0 0.0 7.0	-6.2 0.2 -0.8 -0.7 -2.5 -2.3 1.3 -2.2	-2.8 -2.1 4.5 -1.3 2.0 -4.2 1.3 -8.6	-2.7 1.7 2.2 0.2 -3.4 -2.1 3.0 -8.5	3.7 1.5 3.1 0.9 -0.9 0.2 1.7 -6.5

Table 2. Average annual percent change in output per hour, output, hours, compensation, and unit labor costs, 1987-2008

Table 2. A	verage annual percent change in output per nour,		Average annual percent change, 1987-2008					
NAICS	Industry	Output			Labor	Unit labor		
code		per hour	Output	Hours	compensation	costs		
	Mining Industries							
21 211	Mining Oil and gas extraction	-0.4 0.5	-0.2 -0.8	0.2 -1.3	5.4 5.7	5.7 6.5		
2111	Oil and gas extraction	0.5	-0.8	-1.3 -1.3	5.7 5.7	6.5		
212	Mining, except oil and gas	2.0	0.8	-1.1	2.3	1.4		
2121 2122	Coal mining Metal ore mining	2.4 1.9	0.1 2.2	-2.3 0.4	0.7 5.0	0.6 2.7		
2123	Nonmetallic mineral mining and quarrying	1.0	0.6	-0.4	3.4	2.8		
213	Support activities for mining	3.1	5.6	2.4	9.0	3.2		
2131	Support activities for mining	3.1	5.6	2.4	9.0	3.2		
	Utilities							
2211 2212	Power generation and supply Natural gas distribution	2.4 2.8	1.1 1.3	-1.3 -1.5	2.8 3.3	1.6 2.0		
2212	Manufacturing	2.0	1.0	1.0	0.0	2.0		
311	Food	1.1	1.4	0.3	3.1	1.7		
3111	Animal food	2.7	2.0	-0.7	3.4	1.3		
3112 3113	Grain and oilseed milling	2.1 0.8	1.3 -0.1	-0.8 -0.9	2.2 1.8	0.9 1.9		
3114	Sugar and confectionery products Fruit and vegetable preserving and specialty	1.6	1.3	-0.9	2.9	1.5		
3115	Dairy products	1.6	1.0	-0.6	3.2	2.2		
3116 3117	Animal slaughtering and processing	0.9 0.9	2.3 0.1	1.4 -0.8	3.8 3.0	1.5 2.8		
3117	Seafood product preparation and packaging Bakeries and tortilla manufacturing	0.9	0.1	-0.6 -0.2	3.0 2.4	2.0		
3119	Other food products	0.5	2.0	1.6	4.2	2.1		
312	Beverages and tobacco products	0.6	-0.3	-0.9	1.7	1.9		
3121 3122	Beverages Tobacco and tobacco products	1.9 0.5	1.5 -3.1	-0.4 -3.6	2.3 -0.6	0.8 2.6		
313	Textile mills	3.5	-2.6	- 5.9	-2.5	0.0		
3131	Fiber, yarn, and thread mills	4.2	-1.5	-5.4	-2.0	-0.6		
3132 3133	Fabric mills Textile and fabric finishing mills	4.8 0.6	-2.6 -3.6	-7.1 -4.2	-2.7 -2.6	-0.1 1.0		
314	Textile product mills	0.8	-1.1	-1.9	0.9	2.0		
3141	Textile furnishings mills	0.7	-1.5	-2.2	0.2	1.7		
3149	Other textile product mills	1.4	-0.2	-1.5	1.9	2.1		
315 3151	Apparel Apparel knitting mills	-1.3 -0.6	-8.1 -6.8	-6.9 -6.2	-5.3 -6.0	3.1 0.8		
3152	Cut and sew apparel	-0.0 -1.4	-0.6 -8.5	-0.2 -7.2	-5.2	3.6		
3159	Accessories and other apparel	-2.6	-6.9	-4.4	-4.3	2.8		
316	Leather and allied products	2.2	-4.5	-6.6	-2.8	1.8		
3161 3162	Leather and hide tanning and finishing Footwear	0.7 2.5	-4.8 -5.6	-5.4 -7.9	-2.5 -4.3	2.4 1.3		
3169	Other leather products	1.5	-3.5	-4.9	-1.1	2.5		
321	Wood products	1.3	0.1	-1.3	2.5	2.5		
3211	Sawmills and wood preservation	2.5	0.1	-2.3	1.4	1.3		
3212 3219	Plywood and engineered wood products Other wood products	0.7 1.1	-0.1 0.1	-0.8 -1.0	2.2 3.2	2.3 3.0		
322	Paper and paper products	2.0	0.2	-1.7	1.5	1.3		
3221	Pulp, paper, and paperboard mills	3.0	-0.2	-3.1	0.5	0.6		
3222 323	Converted paper products	1.5 1.5	0.5 0.1	-1.0 -1.3	2.4 1.8	1.9 1.6		
3231	Printing and related support activities Printing and related support activities	1.5 1.5	0.1	-1.3 -1.3	1.8	1.6		
324 3241	Petroleum and coal products Petroleum and coal products	2.6 2.6	1.2 1.2	-1.3 -1.3	3.9 3.9	2.7 2.7		
325	Chemicals	1.8	1.0	-0.7	3.4	2.3		
3251 3252	Basic chemicals	2.7	0.5	-2.1	2.1	1.6		
3252 3253	Resin, rubber, and artificial fibers Agricultural chemicals	2.2 2.6	0.5 0.5	-1.6 -2.1	2.0 1.9	1.5 1.4		
3254	Pharmaceuticals and medicines	0.7	3.0	2.4	6.6	3.4		
3255	Paints, coatings, and adhesives	1.0	-0.3	-1.4	2.6	2.9		
3256 3259	Soaps, cleaning compounds, and toiletries Other chemical products and preparations	3.0 2.4	2.3 0.0	-0.7 -2.3	3.1 1.5	0.8 1.4		
326	Plastics and rubber products	2.0	1.7	-0.3	3.0	1.3		
3261	Plastics products	1.9	2.0	0.1	3.5	1.4		
3262	Rubber products	2.1	0.4	-1.7	1.4	1.0		

Table 2. Average annual percent change in output per hour, output, hours, compensation, and unit labor costs, 1987-2008

Table 2. A	Average annual percent change in output per nour, output, nours, compensation, and un Average annual percent cha					
NAICS	Industry	Output		F	Labor	Unit labor
code	,	per hour	Output	Hours	compensation	costs
327	Nonmetallic mineral products	1.2	0.7	-0.5	2.5	1.8
3271	Clay products and refractories	1.3	-1.1	-2.4	0.2	1.4
3272	Glass and glass products	2.0	0.5	-1.5	1.2	0.7
3273	Cement and concrete products	0.4	1.1	0.6	3.6	2.5
3274 3279	Lime and gypsum products Other nonmetallic mineral products	1.0 1.7	0.0 1.5	-1.0 -0.2	3.1 3.2	3.1 1.6
331	Primary metals	2.6	0.5	-2.1	1.2	0.7
3311	Iron and steel mills and ferroalloy production	5.2	2.5	-2.1 -2.6	0.6	-1.8
3312	Steel products from purchased steel	-0.9	-1.6	-0.7	1.7	3.4
3313	Alumina and aluminum production	2.5	-0.1	-2.5	1.1	1.1
3314	Other nonferrous metal production	1.5	-0.9	-2.3	2.3	3.3
3315	Foundries	2.0	0.1	-1.9	1.2	1.2
332 3321	Fabricated metal products	1.6 2.9	1.5 1.8	-0.2 -1.0	3.1 2.6	1.6 0.8
3322	Forging and stamping Cutlery and hand tools	1.4	-0.9	-1.0 -2.3	2.6 1.5	2.5
3323	Architectural and structural metals	1.1	1.8	0.7	4.2	2.3
3324	Boilers, tanks, and shipping containers	0.8	0.3	-0.5	2.3	2.0
3325	Hardware	1.3	-2.6	-3.8	-0.9	1.7
3326 3327	Spring and wire products Machine shops and threaded products	2.8 2.5	0.7 3.3	-2.0 0.8	1.9 4.6	1.1 1.3
3328	Coating, engraving, and heat treating metals	3.0	3.4	0.3	3.7	0.4
3329	Other fabricated metal products	1.7	0.9	-0.8	2.1	1.2
333	Machinery	2.5	1.9	-0.6	2.5	0.6
3331	Agriculture, construction, and mining machinery	3.0	3.6	0.6	3.6	-0.1
3332 3333	Industrial machinery	2.5 1.6	1.6	-0.9	2.6	1.0
3334	Commercial and service industry machinery HVAC and commercial refrigeration equipment	2.1	-0.2 1.7	-1.7 -0.4	0.6 2.5	0.8 0.8
3335	Metalworking machinery	2.1	0.6	-1.5	1.7	1.1
3336	Turbine and power transmission equipment	2.0	1.8	-0.2	1.9	0.0
3339	Other general purpose machinery	2.6	1.9	-0.7	3.0	1.1
334 3341	Computer and electronic products	12.2 24.8	9.8 20.1	-2.2 -3.8	1.4 -2.1	-7.7 -18.5
3342	Computer and peripheral equipment Communications equipment	24.0 7.4	4.5	-3.6 -2.7	0.8	-16.5 -3.5
3343	Audio and video equipment	3.9	0.3	-3.5	0.6	0.3
3344	Semiconductors and electronic components	16.8	15.2	-1.4	2.3	-11.2
3345 3346	Electronic instruments Magnetic media manufacturing and reproduction	4.4 3.5	2.5 2.0	-1.8 -1.5	2.2 1.2	-0.3 -0.8
335	Electrical equipment and appliances	2.7	0.5	-1.5 -2.1	1.6	1.1
3351	Electric lighting equipment	2.1	0.3	-1.8	1.8	1.4
3352	Household appliances	4.0	0.9	-3.0	-0.1	-1.0
3353	Electrical equipment	2.8	0.6	-2.1	1.6	1.0
3359	Other electrical equipment and components	2.0	0.2	-1.8	2.2	2.0
336 3361	Transportation equipment Motor vehicles	2.9 3.4	1.4 1.2	-1.4 -2.2	1.3 0.9	-0.2 -0.3
3362	Motor vehicles Motor vehicle bodies and trailers	1.3	1.2	0.0	3.9	2.7
3363	Motor vehicle parts	2.9	2.0	-0.8	1.2	-0.8
3364	Aerospace products and parts	1.7	-0.5	-2.1	0.7	1.2
3365 3366	Railroad rolling stock Ship and boat building	5.2 2.2	5.9 1.3	0.7 -0.9	4.2 2.8	-1.6 1.5
3369	Other transportation equipment	6.8	7.2	0.4	5.0	-2.1
337	Furniture and related products	1.9	0.6	-1.2	2.4	1.7
3371	Household and institutional furniture	1.8	0.3	-1.5	2.2	1.9
3372	Office furniture and fixtures	1.8	0.9	-0.9	2.5	1.6
3379	Other furniture-related products	2.3	1.8	-0.5	2.8	1.0
339 3391	Miscellaneous manufacturing Modical equipment and supplies	3.0	3.0	0.0	4.5 5.9	1.4
3391 3399	Medical equipment and supplies Other miscellaneous manufacturing	3.6 2.2	5.0 1.3	1.3 -0.9	5.9 3.2	0.9 1.9
	· ·			0.0	J.2	
481	Transportation and Warehousing Air transportation	2.9	3.1	0.2	2.9	-0.2
482111	Line-haul railroads	2.9 4.2	3.1 2.2	-1.9	2.9 1.2	-0.2 -1.0
4841	General freight trucking 2/	1.3	2.5	1.1	3.9	1.4
48411	General freight trucking, local 2/	3.1	4.0	0.8	4.3	0.4
48412	General freight trucking, long-distance	1.3	2.8	1.5	3.0	0.2
48421 491	Used household and office goods moving Postal service	-0.6 0.9	-0.2 0.7	0.4 -0.2	2.5 4.1	2.7 3.3
4911	Postal service	0.9	0.7	-0.2 -0.2	4.1	3.3

Table 2. Average annual percent change in output per hour, output, hours, compensation, and unit labor costs, 1987-2008

Table 2. A	verage annual percent change in output per hour,	hour, output, hours, compensation, and unit labor costs, 1987-2 Average annual percent change, 1987-2008						
NAICS	Industry	Output Labor Unit labor						
code		per hour	Output	Hours	compensation	costs		
492 493 4931 49311 49312	Couriers and messengers Warehousing and storage ^{1/} Warehousing and storage ^{1/} General warehousing and storage ^{1/} Refrigerated warehousing and storage ^{1/}	-0.2 2.7 2.7 5.0 -0.3	2.2 6.1 6.1 8.5 3.0	2.4 3.4 3.4 3.3 3.2	4.8 6.1 6.1 6.7 4.8	2.5 -0.1 -0.1 -1.6 1.8		
	Information							
511 5111 5112 51213 515 5151 5152 5171 5172	Publishing Newspaper, book, and directory publishers Software publishers Motion picture and video exhibition Broadcasting, except internet Radio and television broadcasting Cable and other subscription programming Wired telecommunications carriers Wireless telecommunications carriers	3.8 0.0 14.4 1.2 1.6 0.4 3.6 4.4 9.5	4.1 -1.0 21.9 1.9 2.7 0.6 8.3 3.8 22.4	0.3 -1.0 6.5 0.7 1.1 0.1 4.5 -0.5	5.7 3.3 12.3 3.7 5.0 4.0 10.4 2.9 15.6	1.5 4.4 -7.9 1.7 2.2 3.4 2.0 -0.9 -5.6		
50044	Finance and Insurance	0.5	0.5	0.0		4.0		
52211	Commercial banking	3.5	3.5	0.0	5.5	1.9		
532111 53212 53223	Real Estate and Rental and Leasing Passenger car rental Truck, trailer, and RV rental and leasing Video tape and disc rental	1.8 3.7 4.2	2.9 2.9 4.4	1.1 -0.8 0.2	5.7 3.6 3.0	2.8 0.6 -1.3		
	Professional and Technical Services							
541213 54131 54133 54181 541921	Tax preparation services Architectural services Engineering services Advertising agencies Photography studios, portrait	0.7 1.5 1.8 2.0 0.1	3.3 3.9 4.0 2.4 2.3	2.6 2.3 2.2 0.4 2.2	4.7 6.0 6.9 4.9 4.7	1.3 2.1 2.7 2.5 2.3		
	Administrative and Waste Services							
561311 56151 56172	Employment placement agencies ^{2/} Travel agencies Janitorial services	7.6 6.2 2.2	8.9 5.1 4.2	1.2 -1.0 2.0	7.3 4.1 6.0	-1.5 -1.0 1.7		
	Health Care and Social Assistance							
6215 621511 621512	Medical and diagnostic laboratories ^{2/} Medical laboratories ^{2/} Diagnostic imaging centers ^{2/}	4.3 3.6 5.0	7.4 6.1 9.4	3.0 2.4 4.2	6.1 5.4 7.8	-1.2 -0.7 -1.5		
	Arts, Entertainment, and Recreation							
71311 71395	Amusement and theme parks Bowling centers	0.1 0.4	3.0 -1.5	2.9 -1.9	6.6 1.3	3.5 2.8		
72 721 7211 722 7221 7222 7223 7224	Accommodation and Food Services Accommodation and food services Accommodation Traveler accommodation Food services and drinking places Full-service restaurants Limited-service eating places Special food services Drinking places (alcoholic beverages)	0.9 1.7 1.7 0.6 0.6 0.6 1.7 -0.4	2.4 2.9 2.9 2.3 2.3 2.5 2.9 -0.6	1.5 1.2 1.2 1.6 1.7 1.8 1.1	5.5 5.3 5.5 6.4 5.3 4.1 2.4	3.0 2.4 2.3 3.2 4.0 2.8 1.2 2.9		
	Other Services							
8111 81142 81211 81221 8123 812310 812320 81233 81292	Automotive repair and maintenance Reupholstery and furniture repair Hair, nail, and skin care services Funeral homes and funeral services Drycleaning and laundry services Coin-operated laundries and drycleaners Drycleaning and laundry services Linen and uniform supply Photofinishing	1.0 -0.2 2.3 -0.5 0.9 1.9 0.6 0.3	1.6 -2.0 3.1 -0.2 0.6 0.7 -0.6 1.7 -4.8	0.6 -1.8 0.8 0.4 -0.3 -1.2 -1.2 1.3 -5.4	4.0 1.1 5.3 4.3 3.1 3.1 1.8 4.6 -2.3	2.4 3.2 2.1 4.5 2.5 2.5 2.4 2.8 2.6		

^{1/} For NAICS industries 493, 4931, 49311, and 49312, average annual percent changes are for 1992-2008.
^{2/} For NAICS industries 4841, 48411, 561311, 6215, 621511, and 621512, average annual percent changes are for 1994-2008.