

# News

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Internet Address: <http://www.bls.gov/ces/>  
Technical information: (202) 691-6555 USDL 03-16  
Media contact: 691-5902

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## REAL EARNINGS IN DECEMBER 2002

Real average weekly earnings were unchanged from November to December after seasonal adjustment, according to preliminary data released today by the Bureau of Labor Statistics of the U.S. Department of Labor. A 0.3 percent decline in average weekly hours and a 0.1 percent rise in the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) were offset by a 0.3 percent increase in average hourly earnings.

Data on average weekly earnings are collected from the payroll reports of private nonfarm establishments. Earnings of both full-time and part-time workers holding production or nonsupervisory jobs are included. Real average weekly earnings are calculated by adjusting earnings in current dollars for changes in the CPI-W.

Average weekly earnings rose by 3.0 percent, seasonally adjusted, from December 2001 to December 2002. After deflation by the CPI-W, average weekly earnings rose by 0.5 percent. Before adjustment for seasonal change and inflation, average weekly earnings were \$517.72 in December 2002, compared with \$502.58 a year earlier.

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Real Earnings for January 2003 will be released on Friday, February 21, 2003.

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\* The Current Employment Statistics (CES) program for the National series \*  
\* will convert from the 1987 Standard Industrial Classification (SIC) to \*  
\* the 2002 North American Industrial Classification System (NAICS) with the \*  
\* release of May 2003 estimates in June 2003. All CES data, including real \*  
\* average hourly earnings and real average weekly earnings, will be \*  
\* reconstructed under NAICS. After the conversion to NAICS, SIC-based \*  
\* series will no longer be produced or published. \*  
\* See <http://www.bls.gov/ces/cesnaics.htm> or call 202-691-6555 for further \*  
\* details. \*  
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**Table A. Composition of change in real earnings of production or nonsupervisory workers on private nonfarm payrolls**

Year and month	Average hourly earnings	Average weekly hours	Average weekly earnings	The Consumer Price Index <sup>1</sup>	Real average weekly earnings
	Percent change from preceding month, seasonally adjusted				
2001:					
Dec.	0.3	0.0	0.3	-0.2	0.6
2002:					
Jan.	.2	.0	.2	.2	(2)
Feb.	.2	.3	.5	.2	.3
Mar.	.2	.0	.2	.3	-.1
Apr.	.1	.0	.1	.6	-.4
May	.2	.0	.2	-.1	.3
June	.3	.3	.6	.1	.5
July	.1	-.9	-.7	.2	-.9
Aug.	.5	.3	.8	.3	.5
Sept.	.1	.3	.4	.2	.2
Oct.	.3	.0	.3	.2	.1
Nov. <sup>p</sup>	.2	.0	.2	.1	.1
Dec. <sup>p</sup>	.3	-.3	(2)	.1	(2)

<sup>1</sup> The deflator for the constant-dollar series presented in this release is the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W).  
<sup>2</sup> Less than 0.05 percent.  
<sup>p</sup> = preliminary.

**Table B. Percent change in earnings from the same month a year ago for production or nonsupervisory workers on private nonfarm payrolls, seasonally adjusted**

Year and month	Average hourly earnings		Average weekly earnings	
	Current dollars	Constant (1982) dollars <sup>1</sup>	Current dollars	Constant (1982) dollars <sup>1</sup>
2001:				
Dec.	3.8	2.6	3.5	2.3
2002:				
Jan.	3.8	3.0	3.2	2.4
Feb.	3.5	2.7	3.5	2.7
Mar.	3.3	2.0	3.3	2.1
Apr.	3.2	1.9	3.2	1.9
May	3.2	2.4	3.2	2.4
June	3.1	2.4	3.4	2.7
July	3.0	1.8	2.4	1.1
Aug.	3.2	1.6	3.2	1.6
Sept.	2.9	1.6	3.2	1.9
Oct.	3.0	1.1	3.6	1.7
Nov. <sup>p</sup>	2.9	.7	3.2	1.1
Dec. <sup>p</sup>	3.0	.5	3.0	.5

<sup>1</sup> The deflator for the constant-dollar series presented in this release is the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W).  
<sup>2</sup> Less than 0.05 percent.  
<sup>p</sup> = preliminary.

**Table 1. Earnings of production or nonsupervisory workers on private nonfarm payrolls in current and constant dollars<sup>1</sup> by industry, not seasonally adjusted**

Industry	Average hourly earnings				Average weekly earnings			
	Dec. 2001	Nov. 2002 <sup>P</sup>	Dec. 2002 <sup>P</sup>	Percent change Dec. 2001 - Dec. 2002	Dec. 2001	Nov. 2002 <sup>P</sup>	Dec. 2002 <sup>P</sup>	Percent change Dec. 2001 - Dec. 2002
Total private: <sup>2</sup>								
Current dollars .....	\$14.61	\$14.96	\$15.05	3.0	\$502.58	\$508.64	\$517.72	3.0
Constant (1982) dollars .....	8.19	8.17	8.24	.6	281.72	277.79	283.37	.6
Goods-producing:								
Current dollars .....	16.23	16.59	16.68	2.8	657.32	665.26	673.87	2.5
Constant (1982) dollars .....	9.10	9.06	9.13	.3	368.45	363.33	368.84	.1
Mining:								
Current dollars .....	17.58	17.81	17.77	1.1	771.76	762.27	755.23	-2.1
Constant (1982) dollars .....	9.85	9.73	9.73	-1.2	432.60	416.31	413.37	-4.4
Construction:								
Current dollars .....	18.69	19.07	19.25	3.0	719.57	724.66	727.65	1.1
Constant (1982) dollars .....	10.48	10.42	10.54	.6	403.35	395.77	398.28	-1.3
Manufacturing:								
Current dollars .....	15.17	15.48	15.59	2.8	625.00	633.13	646.99	3.5
Constant (1982) dollars .....	8.50	8.45	8.53	.4	350.34	345.78	354.13	1.1
Service-producing:								
Current dollars .....	14.16	14.51	14.61	3.2	467.28	474.48	482.13	3.2
Constant (1982) dollars .....	7.94	7.92	8.00	.8	261.93	259.14	263.89	.7
Transportation and public utilities:								
Current dollars .....	17.07	17.48	17.50	2.5	658.90	671.23	677.25	2.8
Constant (1982) dollars .....	9.57	9.55	9.58	.1	369.34	366.59	370.69	.4
Wholesale trade:								
Current dollars .....	16.21	16.33	16.46	1.5	627.33	628.71	643.59	2.6
Constant (1982) dollars .....	9.09	8.92	9.01	-9	351.64	343.37	352.27	.2
Retail trade:								
Current dollars .....	9.89	10.14	10.18	2.9	289.78	292.03	300.31	3.6
Constant (1982) dollars .....	5.54	5.54	5.57	.5	162.43	159.49	164.37	1.2
Finance, insurance, and real estate:								
Current dollars .....	16.14	16.68	16.80	4.1	592.34	600.48	618.24	4.4
Constant (1982) dollars .....	9.05	9.11	9.20	1.7	332.03	327.95	338.39	1.9
Services:								
Current dollars .....	15.15	15.50	15.69	3.6	498.44	505.30	513.06	2.9
Constant (1982) dollars .....	8.49	8.47	8.59	1.2	279.39	275.97	280.82	.5

<sup>1</sup> The deflator for the constant-dollar series presented in this release is the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W).

<sup>2</sup> Data relate to production and related workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation

and public utilities, trade, finance, insurance, and real estate, and services. Included in this group are approximately four-fifths of all jobs on private industry payrolls.

<sup>P</sup> = preliminary.

**Table 2. Earnings of production or nonsupervisory workers on private nonfarm payrolls<sup>1</sup>, seasonally adjusted**

Year and month	Average hourly earnings		Average weekly earnings	
	Current dollars	Constant (1982) dollars <sup>2</sup>	Current dollars	Constant (1982) dollars <sup>2</sup>
2001: Dec.	\$14.55	\$8.14	\$496.16	\$277.49
2002: Jan.	14.58	8.14	497.18	277.44
Feb.	14.61	8.13	499.66	278.21
Mar.	14.64	8.12	500.69	277.85
Apr.	14.66	8.09	501.37	276.69
May	14.69	8.11	502.40	277.42
June	14.74	8.13	505.58	278.86
July	14.76	8.13	501.84	276.34
Aug.	14.83	8.14	505.70	277.70
Sept.	14.85	8.14	507.87	278.28
Oct.	14.90	8.15	509.58	278.61
Nov. <sup>P</sup>	14.93	8.15	510.61	278.87
Dec. <sup>P</sup>	14.98	8.18	510.82	278.83

<sup>1</sup> See footnote 2, table 1.

<sup>2</sup> The deflator for the constant-dollar series presented in this release is the Consumer Price

Index for Urban Wage Earners and Clerical Workers (CPI-W).

<sup>P</sup> = preliminary.

# Explanatory Note

The earnings series presented in this release are derived from the Bureau of Labor Statistics' Current Employment Statistics (CES) survey, a monthly establishment survey of employment, payroll, and hours. The deflator used for constant-dollar earnings series presented in this release is derived from the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W).

For the purpose of the Real Earnings series, the CPI-W is converted from the base of 1982-84 that is used in the official, published series to a base of 1982. Thus, the constant dollar average hourly and weekly earnings series are in 1982 dollars. To avoid confusion for users, the CPI data presented in Table A are the official, published CPI-W series. These data may differ slightly from those used in the real earnings calculations.

Seasonally adjusted data are used for estimates of percent change from the same month a year ago for current and constant average hourly and weekly earnings that are presented in Table B of this release. Special techniques are applied to the CES hours and earnings data in the seasonal adjustment process to mitigate the effect of certain calendar-related fluctuations. Thus, over-the-year changes of these hours and earnings are best measured using seasonally adjusted series. A discussion of the calendar-related fluctuations in the hours and earnings data and the special techniques to remove them is available in the June 1998 issue of *Employment and Earnings* or on the Internet (<http://www.bls.gov/ces/>).

Earnings series from the monthly establishment series are estimated arithmetic averages (means) of the hourly and weekly earnings of all production or nonsupervisory jobs in the private nonfarm sector of the economy. Average hourly earnings estimates are derived by dividing the estimated industry payroll--for all production or nonsupervisory jobs--by the corresponding paid hours. Average weekly hours estimates are similarly derived by dividing estimated aggregate hours by the corresponding number of production or nonsupervisory jobs. Average weekly earnings estimates are derived by multiplying the average hourly earnings and the average weekly hours estimates. This is equivalent to dividing the estimated payroll by the number of production or nonsupervisory jobs. The weekly and hourly earnings estimates for aggregate industries, such as the major industry division and the total private

sector averages printed in this release, are derived by summing the corresponding payroll, hours, and employment estimates of the component industries. As a result, each industry receives a "weight" in the published averages that corresponds to its current level of activity (employment or total hours). This further implies that fluctuations and varying trends in employment in high-wage versus low-wage industries as well as wage rate changes influence the earnings averages.

There are several characteristics of the series presented in this release that limit their suitability for some types of economic analyses. (1) The denominator for the weekly earnings series is the number of private nonfarm production or nonsupervisory worker jobs. This number includes full-time and part-time jobs as well as the jobs held by multiple jobholders in the private nonfarm sector. These factors tend to result in weekly earnings averages significantly lower than the corresponding numbers for full-time jobs. (2) Annual earnings averages can differ significantly from the result obtained by multiplying average weekly earnings times 52 weeks. The difference may be due to factors such as turnovers and layoffs. (3) The series are the average earnings of all production or nonsupervisory jobs, not the earnings average of "typical" jobs or jobs held by "typical" workers. Specifically, there are no adjustments for occupational, age, or schooling variations or for household type or location. Many studies have established the significance of these factors and that their impact varies over time.

Seasonally adjusted data (table 2) are preferred by some users for analyzing general earnings trends in the economy since they eliminate the effect of changes that normally occur at the same time and in about the same magnitude each year and, therefore, reveal the underlying trends and cyclical movements. Changes in average earnings may be due to seasonal changes in the proportion of workers in high-wage and low-wage industries or occupations or to seasonal changes in the amount of overtime work, and so on.

For more information, see Thomas Gavett, "Measures of Change in Real Wages and Earnings," *Monthly Labor Review*, February 1972.

Information in this release will be made available to sensory impaired individuals upon request. Voice phone: 202-691-5200; TDD Message Referral Phone Number: 1-800-877-8339.