News

United States Department of Labor



Bureau of Labor Statistics

Washington, D.C. 20212

Historical, technical

information: (202) 523-9261 Current data: (202) 523-1221, 1208 Media contact: (202) 523-1913 USDL 82-452

For Release 10:00 AM EST Monday, November 29, 1982

PRODUCTIVITY AND COSTS Nonfinancial Corporate Sector Third Quarter 1982

According to preliminary measures, productivity (output per all-employee hour) increased substantially in the nonfinancial corporate sector during the third quarter of 1982. As in the case of the business, nonfarm business, and manufacturing sectors, for which the Bureau of Labor Statistics of the U.S. Department of Labor reported preliminary third quarter measures a month ago, productivity increased as a result of a modest rise in output coupled with a significant cutback in employee hours.

All of the measures for the nonfinancial corporate sector--which are preliminary--are summarized in table A and appear in detail in table 6. In addition to productivity, the measures include output, hours, hourly compensation, real hourly compensation, unit labor cost, and unit profit, as changed from the previous quarter and the same quarter of the previous year. All measures are at seasonally adjusted annual rates.

Table A. Productivity and costs in nonfinancial corporations: Preliminary third-quarter 1982 measures (Seasonally adjusted annual rates)

Sector	Produc- tivity	Output	Hours	Hourly compen- sation	Real hourly compen- sation	Unit labor cost	Unit profit
		Percent ch	ange from	n precedin	g quarter		
Nonfinancial corporations	4.6	0.6	-3.8	5.9	-1.6	1.2	35.4
	Per	cent chang	je from s	ame quarte	r a year a	go	
Nonfinancial corporations	1.3	-3.2	-4.4	7.2	1.3	5.8	-15.6

Note: The productivity and cost measures for the nonfinancial corporate sector contained in this press release are based on new information used to compute employment and hours in this sector. The changes affect data beginning in 1968. Copies of the revised measures are available on request from the Office of Productivity and Technology, Bureau of Labor Statistics, Washington, D.C. 20212; telephone (202) 523-9261.

Revised third-quarter measures of productivity and costs for the business, nonfarm business, and manufacturing sectors were also released today. These measures show larger increases in productivity than had been reported earlier, based on preliminary information. A comparison of the preliminary and revised measures is shown in table B.

Nonfinancial corporations

Productivity of nonfinancial corporations increased 4.6 percent in the third quarter of 1982, the largest increase since a gain of equal size was recorded during the first quarter of 1981. However, the earlier increase occurred while output and hours were both increasing, but the current gain reflected a 0.6 percent gain in output coupled with a 3.8 percent decline in employee-hours. This was the fourth consecutive decline in hours and employment in this sector. The rise in output was the first in a year (table 6).

Hourly compensation, which includes wages, salaries, supplements, employer contributions to employee benefit plans, and employment taxes increased 5.9 percent in the third quarter, the smallest rate of increase since the 5.6 percent rise in the third quarter of 1972. Real hourly compensation, which adjusts for the increase in the Consumer Price Index for All Urban Consumers, declined at an annual rate of 1.6 percent, the first decline in a year.

Unit labor cost, which shows the effect of changes in hourly compensation and productivity, increased 1.2 percent, compared with a 3.4 percent rise during the second quarter. This was the smallest quarterly increase in the series since the 1.3 percent decline in the third quarter of 1975.

Unit profits increased 35.4 percent during the third quarter, the first gain in this series in a year. Compared with the third quarter of 1981, unit profits have declined 15.6 percent.

The implicit price deflator, which reflects changes in unit labor cost, unit nonlabor cost, and unit profit, rose 4.6 percent during the third quarter. The second-quarter increase was 3.8 percent.

Revised measures

Revised productivity measures for the business, nonfarm business, and manufacturing sectors for the third quarter of 1982 show larger gains than had been reported earlier, based on preliminary data. As can be seen in table B, the larger productivity gains reflect an upward revision in the measure of third-quarter output, coupled with a smaller downward revision in hours.

For nonfinancial corporations, new factors for the computation of hours have been developed, based on the most current information available. Small changes will be noted in the quarterly movements beginning in 1968.

Table B. Preliminary and revised third quarter 1982 measures of productivity and cost: quarterly change at annual rate (Seasonally adjusted)

	Business		Nonfarm bu		Manufactu	ring
Measure	Preliminary	Revised	Preliminary	Revised	Preliminary	Revised
Output per hour		•				
of all persons	4.0	4.2	3.6	4.0	7.1	7.3
Output	1.4	1.7	0.7	1.2	-1.9	-1.5
Hours	-2.5	-2.4	-2.8	-2.7	-8.5	-8.1
Hourly compen-						
sation	6.2	6.1	6.6	6.6	6.5	6.2
Real hourly compen-						
sation	-1.3	-1.4	-0.9	-0.9	-1.1	-1.3
Unit labor cost	2.1	1.8	2.9	2.6	-0.6	-1.0

TECHNICAL NOTES

Nonfinancial corporate output is equal to gross national product less the restof-the-world sector, general government, unincorporated business, output of paid employees of private households and nonprofit institutions, rental value of dwellings, the output of corporations engaged in banking, finance, stock and commodity trading, and credit and insurance agencies, and the statistical discrepancy in computing the national income accounts. Nonfinancial corporate output has accounted for about 59 percent of gross national product in recent years.

The productivity and associated cost measures in this press release describe the relationship between output in real terms 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 these measures relate output to hours of all persons engaged in a sector, they do not measure the specific contributions of labor, capital, or any other factor of production. Rather, they reflect the joint effects of many influences, including changes in technology; capital investment; level of output; utilization of capacity, energy and materials; the organization of production; managerial skill; and characteristics and effort of the work force.

TABLE 1. BUSINESS SECTOR, ALL PERSONS: FRODUCTIVITY, HOURLY COMPENSATION, UNIT LABOR COST, AND PRICES, SEASONALLY ADJUSTED

	YEAR AND QUARTER	CUTPUT PER Hour Of All Persons	OUTPUT	OF ALL Persons	COPPENSA— Ticn per HCUR(1)	REAL CCMPENSA- TICN PER HCUR(2)	UNIT Laber Cost	UNIT NON- Labor Pay- Ments(3)	
				INDEX	ES 1977=100				
981	I	100.7		108.3		96.2	139.0	131.8	136.5
	11	100.7	109.1	108.3		96.4	141.5	133.4	138.8
	III	101.0	109.6	108.5	145.6	95.7	144.2		141.9
	IV	100.2	107.8	107.5	148.2	95.6	147.9	138.3	144.6
	ANNUAL	100.7	108.9	108.2	144.1	96.0	143.1	135.2	140.4
82	I	100.0	106.3	106.3	150.9	96.5	150.9	136.4	146.C
	11	100.3	104 4	104 1	157 /	97.1	152.9	137.0	147.5
	III	101.4R	106.4 106.9R	105.4	155.7	96.8	15C.9 152.9 153.6R	140.1R	149.CR
			PERCE	NT CHANGE FR	CP PREVIOUS GUA	RTER AT ANNUAL R	RATE (5)		
981	I	5.6	7.9	2.1	11.7	0.2	5.7		11.6
	11	0.0	-0.1	-0.1	7.5 9.0	0.5	7.5 7.8	4.9	6.6
	111	1.1		0.8		-2.6	7.8	12.5	9.3
	IV	-2.9	-6.4	-3.6	7.4	-0.4	10.6	2.9	8.C
	ANNUAL	1.8	2.5	0.7	9.6	-0.7	7.7	13.3	9.5
982	I	-1.0	-5.5	-4.5	7.3	3.9			3.8
	11				6.9				4.3
	III	4.2R	1.7R	-2.4R	6.1R	-1.4R	1.8R	9.3R	4.1R
			PERCE	NT CHANGE FRO	M CORRESPONDIN	G QUARTER CF PRE	VICUS YEAR	6)	
981	I	1.4	1.1	-0.4	10.5	-0.7	8.9	13.7	10.4
	II	2.5	4.1	1.6 1.9	9.7	-0.1	6.9	14.8	9.4
	111	2.2	4.1	1.9	7.4	-0.1 -1.3 -0.6	7.1	13.9	9.2
	IV	0.9	0.7	-0.2	8.9	-0.6	7.9	11.0	8.9
	ANNUAL	1.8	2.5	0.7	9.6	-0.7	7.7	13.3	9.5
982	I	-0.7	-2.6	-1.9	7.8	0.3	8.6	3.5	6.9
	11	-0.4	-2.4	-2.1	7.6	8.0	8.1	2.7	6.3
	III	0.4R	-2.5	-2.8R	6.9	1.1	6.5R	2.0R	5.0R

SEE FOOTNOTES FOLLOWING TABLE 6. R=REVISED

NCVEMBER 29, 1982 SOURCE: BUREAU OF LABOR STATISTICS P=PRELIMINARY

TABLE 3. MANUFACTURING SECTOR: PRODUCTIVITY, MCLRLY COMPENSATION, UNIT LABOR COST, SEASONALLY ADJUSTED

	YEAR AND QUARTER	OUTPUT PER Mour Of all persons	0LTPUT (7)		CCMPENSA- Ticn Per Hcur(1)	REAL CCMPENSA- Tion per Hour(2)	UNIT Labcr Cost	
			I	NCEXES 1977=	100			
1981		105.2	106.7		142.6	98.0	135.5	
	11	105.0	107.5	102.4	144.9	97.9	138.0	
	III	105.0	107.4	102.3 99.2	147.3 150.7	96.8	140.3	
	IV	102.8	102.0	99.2	150.7	97.2	146.6	
	ANNUAL	104.5	105.9	101.3	146.4	97.5	146.0	
1982	I	102.1	98.2 97.0	96.2	154.7	99.0	151.5	
	II	102.3	97.C	94.8	157.6	99.7	154.0	
	111		96.6R	94.8 92.8R	16C.OR	99.4R	153.6R	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			E FROM PREVIO	US QUARTER AT	ANNUAL RATE(5)		
1981	1	6.3	6.9	0.5	12.7	1.2	€.0	
	11	-0.7	2.8	3.6	6.6	1.2 -0.4	6.0 7.3	
	III	-0.1 -8.2	-0.4	-0.3	6.8	-4.6	6.8	
	IV	-8.2	-18.7	-11.4	9.6	1.6	19.4	
	ANNUAL	2 . 8	2.3	-0.5	10.2	-0.2	7.2	
982	1	-2.4 0.8	-13.8	-11.7	11.1	7.6	13.9	
	11	0.8	*5.1	73.7	7.8	3.1	6.9	
	III	7.3R	-1.58	-8.1R	6.2R	-1.3R	-1.OR	
		P E R	CENT CHANGE	FRCF CCRRES	PONDING QUARTER	OF FREVIOUS YE	AR(6)	
981	ı	2.6	-1.0	-3.5	12.2	C.8	9.3	
,	11	4.5	5.8	1.2	10.7	0.9	5.9	
	111	4.7	5.8 7.5	2.7	8.9	-1.7	4.0	
	IV	-0.8	-2.9	-2.1	10.7 8.9 8.9	-0.6	9.8	
	ANNUAL	2.8	2.3	-0.5	10.2	-0.2	7.2	
1982	1	-2.9	-8.0	-5.2	8.5	1.0	11.7	
	11	-2.5	-9.8	-7.4	8.8	1.8	11.6	
	111	-0.8	-10.0R	-9.3R	8.7	2.7R	9.5R	

SEE FOOTNOTES FOLLOWING TABLE 6. R=REVISED P=PRELIMINARY

NOVEMBER 29, 1982 SCURCE: BUREAU CF LABOR STATISTICS

TABLE 2. NONFARM BUSINESS SECTOR, ALL PERSONS: PRODUCTIVITY, HOURLY COMPENSATION, UNIT LABOR COST, AND PRICES, SEASONALLY ADJUSTED

	YEAR AND QUARTER	GUTPUT PER		HGURS Of All Persons	COPPENSA- Ticn Per HCUR(1)	FEAL CCMPENSA- Ticn Per Hour(2)		UNIT NON- Labor Pay- Ments(3)	PRICE
				INDEX	S 1977=100				
1981	II III IV	100.4 100.0 100.0 99.1	109.2 109.0 109.1 107.1	108.8 109.0 109.1 108.1	142.0	96.0	139.0 141.9 145.1 149.0	131.5 132.8 136.7 138.4	136.5 138.9 142.3 145.5
	ANNUAL	99.9	108.6	108.7	143.6	95.7	143.8	134.8	140.8
982	III I	4 - 0 0	106.0 106.1 106.4R	106.8 106.7 106.0	150.4 152.7 155.1	96.3 96.6 96.4	155.5	137.2	
			PERCE	IT CHANGE FRO	M PREVIOUS GUA	RTER AT ANNUAL R	RATE(5)		
981	1 V I V I V I V I V I V I V I V I V I V	4.9 -1.3 -0.3 -3.5	7.2 -C.8 0.3 -7.1	0.5	11.8 7.1 9.0 7.3	0.4 0.1 -2.6 -0.5	6.6 8.6 9.3 11.2	4.0	
	ANNUAL	1.4	2.2	0.7	9.7	-0.7	8.1	13.1	9.7
982	III	0.6 0.8 4.0R	-4.2 0.6 1.2R	-4.7 -0.1 -2.7R	7.7 6.1 6.6	4.3 1.4 -0.9	7.1 , 5.2 2.6R	1.3	3.3 4.0 4.7R
			PERCE	IT CHANGE FRO	CF CORRESPONDING	G QUARTER OF PRE	VIOUS YEAR(6)	
981	11 111 111	1.7 2.5 1.6 -0.1	1.2 4.2 3.6 -0.2	-0.4 1.6 2.0 -0.1	9.8	-0.6 0.0 -1.2 -0.6		13.8	10.4 9.2 9.6 9.6
	ANNUAL	1.4	2.2	0.7	9.7	-0.7	8.1	13.1	9.7
982	111 111	-1.1 -0.6 0.48	-3.0 -2.6 -2.4R	-1.9 -2.0 -2.8R	7 • 8 7 • 5 6 • 9	0.3 0.6 1.1	9.0 8.2 6.5R	4.0 3.3 2.7R	7.4 6.6 5.3R

SEE FOOTNOTES FOLLOWING TABLE 6. R=REVISED. P=PRELIMINARY

TABLE 4. DURRELE MANUFACTURING SECTOR: PRODUCTIVITY, HOURLY COMPENSATION, UNIT LABOR COST, SEASONALLY ADJUSTED(11)

	YEAR AND Guarter	OUTPUT PER Hour of all persons	OUTPUT (7)	HOURS Of ALL Persons	COMPENSA- TICN PER HCUR(1)	REAL COMPENSA- TION PER HOUR(2)	UNIT Labor Cost	
			1	NDEXES 1977=1	100			
1981	III III I	104.2 104.0 103.7 101.5	107.0 108.2 107.8 101.6	104.0 103.9	144.7 147.2	98.2 97.9 96.7 97.4	137.0 139.2 142.0 148.7	
	ANNUAL	103.4	106.1	102.6	146.5	97.6	141.6	
1982	I II III	100.3 100.5 102.3R	96.8 95.2 94.2R	96.5 94.7 92.1R	154.8 157.7 160.5R	99.1 99.8 99.7R	156.9	
			RCENT CHANG	E FROM PREVI	CUS QUARTER AT	ANNUAL RATE(5)		
1981	I II IV	8.2 -0.7 -1.3 -8.0	8.0 4.5 -1.6 -21.1	5.3	12.8 5.7 6.9 10.9	1.3 -1.2 -4.5 2.9	4.3 6.5 8.3 20.5	
	ANNUAL	3.2	2.5	-0.6	10.5	0.1	7.1	
1932	I II III	-4.9 0.9 7.4R	-17.5 -6.4 -4.2R	-7.2	10.3 7.7 7.4R	6.8 2.9 -0.2R	15.9 6.7 C.OR	
	******				SPONDING QUARTE	R OF FREVIOUS YE	AF(6)	
198 1	I I I I I I I I I I I I I I I I I I I	3.0 4.8 5.4 -0.6		1.8 3.5	12.7 11.0 9.0 9.1	1.3 1.1 -1.6 -0.4	9.5 5.9 3.4 9.7	
	ANNUAL	3.2	2.5	-0.6	10.5	0.1	7.1	
1982	I II III	-3.8 -3.4 -1.3R		-6.0 -8.9 -11.4R	8.4 8.9 9.1R	0.9 1.9 3.1R	12.7 12.7 1C.5R	

SEE FOOTNOTES FOLLOWING TABLE 6.

R=REVISED

P=PRELIMINARY

TABLE 5. NCNDURABLE MANUFACTURING SECTOR: PRODUCTIVITY, HOURLY COMPENSATION, UNIT LABOR COST, SEASONALLY ADJUSTED (12)

	YEAR AND QUARTER	CUTPUT PER HOUR OF ALL PERSONS	OUTPUT (7)	HOURS OF ALL Persons	CCMPENSA- TICN PER HCUR(1)	REAL CCMPENSA- TICN PER FOUR(2)		
			I	NDEXES 1977=	100			
1981	III III IV	106.7 106.5 107.0 104.6	106.4 106.5 106.9 102.6	99.7 99.9 99.8 98.1	144.4 146.7	97.5 97.7 96.5 96.5	132.9 135.6 137.1 143.1	
	ANNUAL	106.2	105.6	99.4	145.6	97.0	137.1	
1982	III III	104.9 105.1 106.8R	100.4 99.6 100.2R	93.8R	154.3 157.5 159.4	98.8 99.7 99.1R	147.2 150.0 149.2R	
		PE	RCENT CHANG	E FROM PREVIO	OUS QUARTER AT	ANNUAL RATE(5)		. ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
1981	III III IV	3.5 -0.7 1.8 -8.8	5.2 0.3 1.4 -15.1	1.6 1.0 -0.4 -6.9	12.8 7.6 6.5 8.2	1.2 0.6 -4.8 0.3		
	ANNUAL	2.2	1.9	-0.3	9.6	-0.7	7.3	
1982	III	1.1 0.7 7.08	-8.3 -3.2 2.5R	-9.3 -3.9 -4.2R	13.2 8.5 4.8R	9.6 3.8 -2.6R	7.8	
		PE(RCENT CHANG	E FROM CORRES	SPONDING QUARTE	R OF FREVIOUS YE	AR(6)	
1981	III III IV	2.0 4.2 3.7 -1.1	4.6 5.3	0.4 1.5 -1.2	1C.O 8.4 8.7	0.2	9.4 5.6 4.5 1C.0	
	ANNUAL	2.2	1.9	-0.3	9.6	-0.7	7.3	
1982	III III	-1.7 -1.4 -0.2R	-5.6 -6.5 -6.2R	-4.C -5.2 -6.1	8.8 9.1 8.6	1.3 2.1 2.7	10.8 10.6 8.8R	

SEE FCCTNOTES FOLLOWING TABLE 6.
R=REVISED
P=PRELIMINARY

TABLE 6. NONFINANCIAL CORPORATIONS: PRODUCTIVITY, HOURLY COMPENSATION UNIT LABOR COST, UNIT PROFITS, AND PRICES, SEASONALLY ADJUSTED

	AND	OUTPUT PER ALL- EMPLOYEE HOUR	OUTPUT		HOURLY COMPENSA- TICN (1)	COMPEN-	UNIT LABOR COST	UNIT NON- LABOR CCST(E)	TOTAL UNIT COST (9)	PRC-	IMPLICIT PRICE DEFLATOR	
			*****		INDEXES	1977=100						
1981	I III IV	102.3R 102.2R 102.2R 101.6R	111.0 111.1 111.5 109.4	108.5R 108.8R 109.1R 107.7R	141.9R 144.8R	96.0R 96.0R 95.2R 95.3R	136.5 138.9 141.7 145.4	143.4 149.6 153.1 159.6	144.7	104.7 98.8 105.2 97.6	134.5 136.8 140.2 143.2	
	ANNUAL	102.OR	110.7	108.5R	143.5R	95.6R	140.6	151.4	143.4	101.6	138.6	
1982			107.9 107.8 108.CP	106.2R 105.3R 104.3P	153.OR	96.5R 96.8R 96.4P	148.3 149.5 150.0P	161.8 166.0 168.5P	151.8 153.8 154.8P	86.1 82.3 88.7P	145.6	
			(PERCENT C	HANGE FROM	PREVIOUS Q	LARTER AT	ANNUAL R	ATE(5)			
1981	III III I	4.6R -0.4 0.2R -2.4R	7.4 0.6 1.5 -7.5	2.6 1.0R 1.2 -5.1R	6.8R	0.8R -0.1 -3.1R 0.3R	7.3	8.C 18.5 9.8 17.8		79.5 -20.7 28.4 -25.9	12.3 7.1 10.2 8.9	
	ANNUAL	1.7R	2.4	G.7R	9.6R	-0.7R	7.8	14.3	9.5	15.6	10.0	
1982	III	0.3R 2.7R 4.6P	-5.2 -0.4 0.6P	-5.5R -3.1R -3.8P	6.2R	4.9R 1.6R -1.6P	8.1 3.4 1.2P	5.7 10.7 6.4F	7.4 5.4 2.6P	-39.4 -16.7 35.4P	3.0 3.8 4.6P	
				PERCENT C	HANGE FROM	CCRRESPOND	ING QUART	ER OF FRE	VIOUS YEA	 R(6)	~~~~~~~	
1981	III	2.9 1.6R 0.5R	1.C 4.4 4.1 0.3	-1.0 1.5R 2.4 -0.1R	9.8 9.2 8.9R	-0.5R	6.7 7.5 8.4	16.9 14.2 12.9 13.4	8.7 8.9 9.8	14.9 20.7 19.7 7.9	11.0 9.6 9.7 9.6	
	ANNUAL	1.7R	2.4	0.7R	9.6R	-0.7R	7.8	14.3	9.5	15.6	10.0	
1982	III III	-0.6R 0.2R 1.3P	-2.7 -3.0 -3.2P	-2.2R -3.1R -4.4P	7.8R	0.5R 0.9R 1.3P	8.6 7.6 5.8P	12.8 10.9 10.1P		-17.8 -16.7 -15.6P		

SEE FOOTNOTES FOLLOWING TABLE 6. R=REVISED

R=REVISED P=PRELIMINARY

Footnotes, Tables 1-6

SOURCE: Output data from Bureau of Economic Analysis, U.S. Dapartment of Commerce, and the Federal Reserve Board. Compensation and hours data from the Bureau of Labor Statistics, U.S. Department of Labor, and the Bureau of Economic Analysis.

RELIABILITY: Based on data covering the period from the first quarter of 1976 to the second quarter of 1982, the probability is 0.95 that the interval between -1.9 and 2.2 index points contains the revision of the index of productivity in the business sector from the first to the third quarterly publication of the estimate.

- (1) Wages and salaries of the employees plus employers' contributions for social insurance and private benefit plans. Except for nonfinancial corporations, where there are no self-employed, data also include an estimate of wages, salaries, and supplemental payments for the self-employed.
- (2) Compensation per hour adjusted for changes in the Consumer Price Index for All Urban Consumers.
- (3) Nonlabor payments include profits, depreciation, interest, rental income, and indirect taxes.
- (4) Current dollar gross product divided by constant dollar gross product.
- (5) Percent change compounded at annual rate from the original data rather than index numbers.
- (6) Current quarter divided by comparable quarter a year ago.
- (7) Quarterly measures adjusted to annual estimates of output (gross product originating) from the Bureau of Economic Analysis, U.S. Department of Commerce.
- (8) Unit nonlabor cost includes depreciation, interest, and indirect taxes.
- (9) Total unit cost is the sum of labor and nonlabor costs.
- (10) Unit profits include corporate profit and inventory valuation adjustment.
- (11) The durable sector includes the following 2-digit SIC industries:

 Primary metal; fabricated metal products; nonelectrical machinery;
 electrical machinery; transportation equipment; instruments; lumber and lumber products; furniture and fixtures; stone, clay, and glass products; and miscellaneous manufactures.
- (12) The nondurable sector includes the following 2-digit SIC industries: Textile mill products; apparel products; leather and leather products; printing and publishing; chemicals and chemical products; petroleum products; rubber and plastic products; foods; and tobacco products.

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