Table B–33. Changes in productivity and related data, business and nonfarm business sectors, 1970–2020

[Percent change from preceding period; quarterly data at seasonally adjusted annual rates]

Year or quarter	Output per hour of all persons		Output [1]		Hours of all persons [2]		Compensation per hour [3]		Real compensation per hour [4]		Unit labor costs		Implicit price deflator [5]	
	Business sector	Nonfarm business sector	Business sector	Nonfarm business sector	Business sector	Nonfarm business sector	Business sector	Nonfarm business sector	Business sector	Nonfarm business sector	Business sector	Nonfarm business sector	Business sector	Nonfarm business sector
1970	2.0	1.5	0.0	–0.1	–2.0	–1.6	7.5	7.0	1.7	1.2	5.4	5.4	4.3	4.4
1971	4.1	3.9	3.8	3.7	–.3	–.2	6.0	6.1	1.6	1.7	1.9	2.1	4.2	4.3
1972	3.4	3.5	6.5	6.7	3.0	3.1	6.3	6.5	3.0	3.2	2.9	2.9	3.4	3.1
1973	3.0	3.1	6.9	7.3	3.8	4.1	7.9	7.6	1.6	1.3	4.8	4.4	5.2	3.5
1974	–1.7	–1.6	–1.5	–1.5	.2	.1	9.3	9.5	–1.5	–1.4	11.2	11.3	9.8	10.4
1975	3.5	2.8	–1.0	–1.6	–4.3	–4.3	10.7	10.5	1.4	1.3	6.9	7.6	9.7	10.7
1976	3.3	3.5	6.8	7.2	3.3	3.6	8.0	7.8	2.1	1.9	4.5	4.1	5.2	5.4
1977	1.8	1.7	5.7	5.7	3.8	3.9	8.0	8.2	1.4	1.6	6.1	6.4	5.9	6.2
1978	1.2	1.4	6.4	6.7	5.1	5.2	8.4	8.6	1.3	1.5	7.1	7.1	6.9	6.5
1979	.1	–.2	3.6	3.4	3.4	3.6	9.7	9.5	.2	.0	9.5	9.8	8.4	8.4
1980	.0	.0	–.9	–.9	–.9	–.8	10.7	10.8	–.4	–.4	10.7	10.8	8.9	9.5
1981	2.2	1.5	2.9	2.3	.8	.8	9.4	9.6	.0	.2	7.1	8.0	9.2	9.6
1982	–.5	–.8	–2.9	–3.1	–2.4	–2.3	7.5	7.4	1.4	1.2	8.0	8.2	5.7	6.2
1983	3.4	4.1	5.3	6.2	1.8	2.0	4.4	4.5	.1	.2	1.0	.4	3.6	3.5
1984	2.9	2.2	8.9	8.5	5.9	6.1	4.4	4.3	.2	.1	1.5	2.0	2.8	2.8
1985	2.3	1.8	4.7	4.4	2.3	2.6	5.1	4.9	1.6	1.4	2.7	3.1	2.6	3.1
1986	2.8	3.0	3.6	3.8	.8	.8	5.7	5.8	3.8	4.0	2.8	2.7	1.4	1.4
1987	.6	.6	3.6	3.6	3.0	3.0	3.8	3.8	.3	.3	3.2	3.2	1.9	1.9
1988	1.5	1.6	4.3	4.6	2.7	2.9	5.3	5.1	1.6	1.5	3.7	3.4	3.2	3.1
1989	1.2	.9	3.8	3.7	2.6	2.7	3.0	2.9	–1.3	–1.4	1.8	2.0	3.7	3.6
1990	2.0	1.7	1.6	1.5	–.4	–.2	6.3	6.0	1.3	1.0	4.2	4.2	3.3	3.4
1991	1.6	1.6	–.6	–.6	–2.2	–2.2	4.6	4.8	1.0	1.1	3.0	3.1	2.9	3.1
1992	4.7	4.5	4.2	4.1	–.4	–.4	6.1	6.2	3.6	3.6	1.4	1.7	1.6	1.7
1993	.1	.1	2.9	3.1	2.8	3.0	1.5	1.2	–1.0	–1.3	1.4	1.1	2.3	2.3
1994	.6	.7	4.8	4.6	4.2	3.9	.7	1.0	–1.3	–1.1	.1	.3	1.8	1.9
1995	.7	1.1	3.1	3.4	2.3	2.3	2.4	2.5	.0	.1	1.7	1.4	1.8	1.8
1996	2.5	2.1	4.6	4.5	2.1	2.3	3.6	3.5	.9	.8	1.1	1.3	1.6	1.4
1997	2.2	1.9	5.2	5.2	3.0	3.2	4.0	3.9	1.8	1.7	1.8	1.9	1.5	1.7
1998	3.1	3.1	5.2	5.3	2.0	2.2	5.9	5.8	4.5	4.4	2.7	2.6	.6	.7
1999	4.0	3.8	5.7	5.7	1.6	1.8	4.8	4.7	2.7	2.5	.8	.8	.6	.8
2000	3.4	3.3	4.9	4.7	1.4	1.4	6.9	7.0	3.4	3.5	3.4	3.6	1.5	1.6
2001	2.8	2.7	.7	.8	–2.0	–1.9	4.6	4.4	1.7	1.5	1.7	1.6	1.6	1.6
2002	4.3	4.3	1.7	1.7	–2.4	–2.5	2.2	2.3	.6	.7	–1.9	–1.9	.7	.8
2003	4.0	3.8	3.3	3.2	–.6	–.6	3.8	3.7	1.5	1.4	–.2	–.1	1.3	1.1
2004	3.0	2.9	4.3	4.2	1.2	1.3	4.7	4.6	1.9	1.8	1.6	1.6	2.5	2.3
2005	2.2	2.2	3.9	3.9	1.7	1.7	3.6	3.7	.2	.3	1.4	1.4	3.1	3.3
2006	1.1	1.1	3.4	3.4	2.2	2.3	3.9	3.8	.6	.6	2.7	2.7	2.7	2.8
2007	1.6	1.7	2.3	2.4	.6	.7	4.5	4.3	1.6	1.5	2.8	2.6	2.3	2.0
2008	1.1	1.1	–1.0	–1.0	–2.1	–2.1	2.8	2.9	–1.0	–.9	1.6	1.7	1.5	1.6
2009	3.6	3.6	–3.7	–3.9	–7.1	–7.2	.9	.9	1.2	1.3	–2.7	–2.5	.2	.5
2010	3.3	3.4	3.2	3.3	–.1	–.1	1.8	1.9	.1	.2	–1.5	–1.5	1.2	1.0
2011	–.1	.0	1.9	2.0	2.0	2.0	2.1	2.2	–1.0	–.9	2.2	2.2	2.3	1.9
2012	.8	.9	3.0	3.1	2.3	2.3	2.8	2.7	.6	.5	2.0	1.8	1.9	1.9
2013	.9	.5	2.4	2.2	1.5	1.7	1.5	1.3	.0	–.2	.6	.8	1.5	1.5
2014	.7	.9	3.1	3.2	2.4	2.3	2.6	2.8	.9	1.1	1.9	1.9	1.6	1.8
2015	1.5	1.6	3.8	3.7	2.3	2.1	2.9	3.1	2.8	3.0	1.4	1.6	.4	.7
2016	.4	.3	1.9	1.8	1.5	1.5	1.1	1.1	–.2	–.2	.7	.7	.8	1.0
2017	1.3	1.2	2.7	2.8	1.4	1.5	3.6	3.5	1.4	1.3	2.3	2.2	1.7	1.7
2018	1.6	1.4	3.5	3.5	1.9	2.0	3.4	3.4	.9	.9	1.8	1.9	2.2	2.2
2019	1.7	1.7	2.4	2.5	.7	.7	3.6	3.6	1.8	1.8	1.9	1.9	1.5	1.5
2017: I	.6	1.0	2.5	2.4	1.9	1.3	3.3	3.9	.4	1.0	2.7	2.9	2.0	1.5
II	–.2	–.1	1.9	2.1	2.1	2.2	2.4	2.4	2.0	2.0	2.6	2.5	1.0	1.0
III	3.0	2.5	3.6	3.8	.6	1.3	5.7	5.2	3.5	3.0	2.7	2.7	1.9	2.0
IV	.6	1.3	4.6	4.7	4.0	3.3	4.6	5.5	1.5	2.3	4.1	4.1	2.5	2.5
2018: I	2.9	2.3	4.5	4.3	1.6	2.0	2.7	2.2	–.6	–1.0	–.2	.0	2.0	2.1
II	1.7	1.1	3.0	3.0	1.3	1.8	1.7	1.3	–.5	–.9	–.1	.2	3.6	3.6
III	.1	.5	2.3	2.3	2.1	1.8	4.7	5.1	2.5	2.9	4.5	4.5	1.1	1.4
IV	.7	.8	1.5	1.4	.8	.7	1.5	1.8	.3	.5	.9	1.0	1.4	1.4
2019: I	3.6	3.7	3.6	3.8	.0	.1	8.8	8.7	7.9	7.7	5.0	4.8	.4	.4
II	2.2	2.0	1.3	1.2	–.9	–.7	1.7	1.4	–1.3	–1.6	–.5	–.6	3.0	3.0
III	.2	.3	2.9	2.9	2.7	2.6	–.1	–.2	–1.9	–2.0	–.3	–.4	1.1	1.0
IV	1.4	1.6	2.8	2.8	1.4	1.2	3.1	3.3	.7	.9	1.7	1.7	1.2	1.2
2020: I	.0	–.3	–6.0	–6.4	–6.0	–6.1	9.0	9.2	7.7	7.9	9.0	9.6	.8	.8
II	9.6	10.6	–36.8	–36.8	–42.4	–42.9	19.4	20.0	23.7	24.4	8.9	8.5	–4.3	–3.6
III *p*	6.4	4.9	43.7	43.5	35.1	36.8	–3.3	–4.4	–8.1	–9.1	–9.1	–8.9	4.7	4.4

[1] Output refers to real gross domestic product in the sector.
[2] Hours at work of all persons engaged in the sector. See footnote 2, Table B–32.
[3] Wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. Also includes an estimate of wages, salaries, and supplemental payments for the self-employed.
[4] Hourly compensation divided by a consumer price index. See footnote 4, Table B–32.
[5] Current dollar output divided by the output index.

Note: Percent changes are calculated using index numbers to three decimal places and may differ slightly from percent changes based on indexes in Table B–32, which are rounded to one decimal place.

Source: Department of Labor (Bureau of Labor Statistics).