

**Table 7.7 Coal Mining Productivity, Selected Years, 1949-2011**  
(Short Tons per Employee Hour<sup>1</sup>)

Year	Mining Method		Location						Total <sup>2</sup>
	Underground	Surface <sup>2</sup>	East of the Mississippi			West of the Mississippi			
			Underground	Surface <sup>2</sup>	Total <sup>2</sup>	Underground	Surface <sup>2</sup>	Total <sup>2</sup>	
1949	<sup>3</sup> 0.68	<sup>3</sup> 1.92	NA	NA	NA	NA	NA	NA	0.72
1950	<sup>3</sup> 0.72	<sup>3</sup> 1.96	NA	NA	NA	NA	NA	NA	.76
1955	<sup>3</sup> 1.04	<sup>3</sup> 2.65	NA	NA	NA	NA	NA	NA	1.14
1960	<sup>3</sup> 1.33	<sup>3</sup> 2.91	NA	NA	NA	NA	NA	NA	1.52
1965	<sup>3</sup> 1.75	<sup>3</sup> 4.10	NA	NA	NA	NA	NA	NA	2.09
1970	<sup>3</sup> 1.72	<sup>3</sup> 4.53	NA	NA	NA	NA	NA	NA	2.30
1975	<sup>3</sup> 1.19	<sup>3</sup> 3.26	NA	NA	NA	NA	NA	NA	1.81
1976	<sup>3</sup> 1.14	<sup>3</sup> 3.25	NA	NA	NA	NA	NA	NA	1.78
1977	<sup>3</sup> 1.09	<sup>3</sup> 3.16	NA	NA	NA	NA	NA	NA	1.80
1978	<sup>3</sup> 1.04	<sup>3</sup> 3.03	NA	NA	NA	NA	NA	NA	1.77
1979	1.13	3.08	NA	NA	NA	NA	NA	NA	1.81
1980	1.20	3.21	NA	NA	NA	NA	NA	NA	1.93
1981	1.29	3.42	NA	NA	NA	NA	NA	NA	2.10
1982	1.37	3.36	NA	NA	NA	NA	NA	NA	2.11
1983	1.61	3.81	NA	NA	NA	NA	NA	NA	2.50
1984	1.72	4.03	1.69	2.56	1.98	2.49	8.15	7.07	2.64
1985	1.78	4.24	1.75	2.52	2.00	2.45	8.61	7.40	2.74
1986	2.00	4.60	1.96	2.75	2.21	2.80	9.02	7.90	3.01
1987	2.20	4.98	2.16	2.97	2.42	3.39	9.86	8.73	3.30
1988	2.38	5.32	2.32	2.99	2.54	3.55	10.73	9.38	3.55
1989	2.46	5.61	2.39	3.13	2.63	3.92	11.86	10.21	3.70
1990	2.54	5.94	2.46	3.32	2.73	4.01	12.26	10.41	3.83
1991	2.69	6.38	2.59	3.49	2.86	4.53	12.36	10.79	4.09
1992	2.93	6.59	2.82	3.61	3.07	4.85	12.49	11.03	4.36
1993	2.95	7.23	2.81	3.74	3.11	5.18	13.94	12.14	4.70
1994	3.19	7.67	3.02	3.85	3.28	5.93	15.19	13.22	4.98
1995	3.39	8.48	3.19	4.03	3.45	6.32	16.23	14.18	5.38
1996	3.57	9.05	3.36	4.25	3.63	7.03	17.89	15.66	5.69
1997	3.83	9.46	3.63	4.49	3.89	6.82	18.63	16.04	6.04
1998	3.90	9.58	3.69	4.31	3.89	6.76	18.82	16.27	6.20
1999	3.99	10.39	3.74	4.48	3.97	7.45	19.57	17.18	6.61
2000	4.15	11.01	3.89	4.82	4.18	7.66	20.04	17.62	6.99
2001	4.02	<sup>2</sup> 10.58	3.71	<sup>2</sup> 4.53	<sup>2</sup> 3.98	8.39	<sup>2</sup> 20.63	<sup>2</sup> 18.32	<sup>2</sup> 6.82
2002	3.98	10.36	3.67	4.22	3.86	7.80	20.67	18.06	6.80
2003	4.04	10.75	3.68	4.18	3.85	8.33	21.42	18.67	6.95
2004	3.96	10.55	3.59	3.95	3.72	8.22	22.04	19.00	6.80
2005	3.62	10.03	3.28	3.75	3.44	7.48	21.98	18.50	6.36
2006	3.37	10.18	3.06	3.74	3.29	6.62	22.26	18.33	6.26
2007	3.34	10.24	3.03	3.74	3.27	6.52	22.35	18.23	6.27
2008	3.15	9.81	2.87	3.58	3.12	6.07	21.85	17.77	5.96
2009	2.99	9.22	2.74	3.33	2.94	5.51	19.85	16.15	5.61
2010	<sup>R</sup> 2.89	<sup>R</sup> 9.46	<sup>R</sup> 2.66	3.24	<sup>R</sup> 2.84	<sup>R</sup> 5.54	<sup>R</sup> 20.25	16.60	<sup>R</sup> 5.55
2011 <sup>P</sup>	2.76	8.86	2.52	3.03	2.68	5.54	19.34	15.98	5.22

<sup>1</sup> Data through 1973 for bituminous coal, subbituminous coal, and lignite, and data through 1978 for anthracite, were originally reported in short tons per employee day—these data were converted to short tons per employee hour by assuming an eight-hour day. Through 1997, other data were calculated by dividing total production by total labor hours worked by all mine employees except office workers; beginning in 1998, the calculation also includes office workers.

<sup>2</sup> Beginning in 2001, includes a small amount of refuse recovery.

<sup>3</sup> Through 1978, data for anthracite are not available by mining method, but are included in "Total."

R=Revised. P=Preliminary. NA=Not available.

Web Pages: • For all data beginning in 1949, see <http://www.eia.gov/totalenergy/data/annual/#coal>.

• For related information, see <http://www.eia.gov/coal/>.

Sources: • 1949-1975—Bureau of Mines, *Minerals Yearbook*, "Coal—Bituminous and Lignite" and "Coal—Pennsylvania Anthracite" chapters. • 1976—U.S. Energy Information Administration (EIA), Energy Data Reports, *Coal—Bituminous and Lignite in 1976* and *Coal—Pennsylvania Anthracite 1976*. • 1977 and 1978—EIA, Energy Data Reports, *Bituminous Coal and Lignite Production and Mine Operations—1977; 1978* and *Coal—Pennsylvania Anthracite 1977; 1978*. • 1979—EIA, Energy Data Report, *Coal Production—1979*. • 1980-1988—EIA, *Coal Production*, annual reports. • 1989-2000—EIA, *Coal Industry Annual*, annual reports. • 2001-2010—EIA, *Annual Coal Report*, annual reports. • 2011—EIA, Form EIA-7A, "Coal Production Report," and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."