

Table 21. Coal Mining Productivity by State and Mine Type, 2007, 2006

Coal-Producing State, Region ¹ , and Mine Type	Number of Mining Operations ²			Number of Employees ³			Average Production per Employee per Hour (short tons) ⁴		
	2007	2006	Percent Change	2007	2006	Percent Change	2007	2006	Percent Change
Alabama	61	68	-10.3	3,850	4,195	-8.2	2.23	2.01	11.1
Underground.....	13	14	-7.1	2,458	2,621	-6.2	2.08	1.74	19.2
Surface.....	48	54	-11.1	1,392	1,574	-11.6	2.49	2.51	-0.8
Alaska	1	1	-	99	96	3.1	5.83	6.48	-10.0
Surface.....	1	1	-	99	96	3.1	5.83	6.48	-10.0
Arizona	1	2	-50.0	430	418	2.9	7.92	7.69	2.9
Surface.....	1	2	-50.0	430	418	2.9	7.92	7.69	2.9
Arkansas	2	2	-	87	43	102.3	0.42	0.24	76.1
Underground.....	1	1	-	85	41	107.3	0.41	0.19	118.3
Surface.....	1	1	-	2	2	-	1.65	2.48	-33.4
Colorado	13	13	-	2,249	2,229	0.9	7.51	7.90	-5.0
Underground.....	9	8	12.5	1,729	1,682	2.8	7.36	7.72	-4.7
Surface.....	4	5	-20.0	520	547	-4.9	8.05	8.46	-4.9
Illinois	29	33	-12.1	3,946	3,977	-0.8	3.67	3.70	-0.8
Underground.....	19	21	-9.5	3,488	3,507	-0.5	3.48	3.52	-1.2
Surface.....	10	12	-16.7	458	470	-2.6	4.95	4.89	1.4
Indiana	44	45	-2.2	2,968	2,858	3.8	4.55	4.81	-5.4
Underground.....	15	15	-	1,291	1,231	4.9	3.18	3.46	-8.0
Surface.....	29	30	-3.3	1,677	1,627	3.1	5.60	5.82	-3.7
Kansas	3	3	-	65	61	6.6	3.25	3.64	-10.9
Surface.....	3	3	-	65	61	6.6	3.25	3.64	-10.9
Kentucky Total	554	592	-6.4	16,986	17,959	-5.4	2.97	2.96	0.5
Underground.....	266	300	-11.3	11,146	11,902	-6.4	2.69	2.68	0.3
Surface.....	288	292	-1.4	5,840	6,057	-3.6	3.53	3.51	0.6
Eastern	521	556	-6.3	14,106	15,010	-6.0	2.75	2.78	-1.1
Underground.....	251	280	-10.4	8,661	9,303	-6.9	2.31	2.37	-2.6
Surface.....	270	276	-2.2	5,445	5,707	-4.6	3.45	3.45	*
Western	33	36	-8.3	2,880	2,949	-2.3	3.96	3.78	4.9
Underground.....	15	20	-25.0	2,485	2,599	-4.4	3.86	3.69	4.6
Surface.....	18	16	12.5	395	350	12.9	4.83	4.54	6.3
Louisiana	2	2	-	239	243	-1.6	6.08	7.84	-22.5
Surface.....	2	2	-	239	243	-1.6	6.08	7.84	-22.5
Maryland	22	22	-	375	490	-23.5	2.80	4.82	-41.9
Underground.....	4	5	-20.0	131	205	-36.1	2.09	6.10	-65.7
Surface.....	18	17	5.9	244	285	-14.4	3.19	3.81	-16.1
Mississippi	1	1	-	177	178	-0.6	9.99	10.38	-3.8
Surface.....	1	1	-	177	178	-0.6	9.99	10.38	-3.8
Missouri	2	2	-	14	20	-30.0	6.96	10.20	-31.8
Surface.....	2	2	-	14	20	-30.0	6.96	10.20	-31.8
Montana	6	6	-	986	942	4.7	22.20	21.98	1.0
Underground.....	1	1	-	16	58	-72.4	1.46	2.65	-45.0
Surface.....	5	5	-	970	884	9.7	22.55	23.30	-3.2
New Mexico	6	5	20.0	1,356	1,372	-1.2	9.03	8.62	4.7
Underground.....	2	2	-	374	368	1.6	9.11	8.07	12.9
Surface.....	4	3	33.3	982	1,004	-2.2	9.00	8.85	1.7
North Dakota	5	5	-	975	947	3.0	15.70	16.91	-7.2
Surface.....	5	5	-	975	947	3.0	15.70	16.91	-7.2
Ohio	73	71	2.8	2,496	2,413	3.4	4.05	4.04	0.4
Underground.....	21	20	5.0	1,481	1,384	7.0	4.76	4.81	-1.0
Surface.....	52	51	2.0	1,015	1,029	-1.4	3.01	3.06	-1.7
Oklahoma	9	10	-10.0	237	224	5.8	2.78	3.35	-16.9
Underground.....	2	2	-	84	73	15.1	2.65	2.44	8.8
Surface.....	7	8	-12.5	153	151	1.3	2.85	3.78	-24.6
Pennsylvania Total	349	358	-2.5	7,649	7,526	1.6	3.73	3.90	-4.3
Underground.....	82	87	-5.7	5,206	5,099	2.1	4.39	4.52	-2.8
Surface.....	267	271	-1.5	2,443	2,427	0.7	2.20	2.44	-9.9
Anthracite	120	124	-3.2	910	869	4.7	0.89	0.95	-6.6
Underground.....	30	35	-14.3	192	226	-15.0	0.68	0.68	*
Surface.....	90	89	1.1	718	643	11.7	0.94	1.04	-10.2
Bituminous	229	234	-2.1	6,739	6,657	1.2	4.05	4.21	-3.7
Underground.....	52	52	-	5,014	4,873	2.9	4.50	4.65	-3.3
Surface.....	177	182	-2.7	1,725	1,784	-3.3	2.67	2.87	-7.2
Tennessee	28	36	-22.2	566	660	-14.2	2.10	2.06	2.0
Underground.....	9	16	-43.8	220	333	-33.9	1.92	1.97	-2.2
Surface.....	19	20	-5.0	346	327	5.8	2.21	2.14	3.3
Texas	11	12	-8.3	2,216	2,138	3.6	8.82	9.90	-10.9
Surface.....	11	12	-8.3	2,216	2,138	3.6	8.82	9.90	-10.9
Utah	18	20	-10.0	2,012	2,036	-1.2	5.79	6.15	-5.8
Underground.....	17	19	-10.5	2,006	2,030	-1.2	5.81	6.18	-5.9

See footnotes at end of table.

Table 21. Coal Mining Productivity by State and Mine Type, 2007, 2006 (Continued)

Coal-Producing State, Region ¹ , and Mine Type	Number of Mining Operations ²			Number of Employees ³			Average Production per Employee per Hour (short tons) ⁴		
	2007	2006	Percent Change	2007	2006	Percent Change	2007	2006	Percent Change
Utah (continued)									
Surface.....	1	1	-	6	6	-	-	-	-
Virginia.....	160	170	-5.9	4,763	5,262	-9.5	2.47	2.67	-7.4
Underground.....	94	98	-4.1	3,363	3,623	-7.2	2.25	2.48	-9.4
Surface.....	66	72	-8.3	1,400	1,639	-14.6	2.96	3.07	-3.5
Washington.....	-	1	-100.0	-	673	-100.0	-	2.03	-100.0
Surface.....	-	1	-100.0	-	673	-100.0	-	2.03	-100.0
West Virginia Total.....	418	419	-0.2	20,049	20,076	-0.1	3.32	3.32	*
Underground.....	239	247	-3.2	13,441	13,190	1.9	2.82	2.87	-1.5
Surface.....	179	172	4.1	6,608	6,886	-4.0	4.25	4.14	2.7
Northern.....	65	70	-7.1	4,540	4,621	-1.8	4.08	4.12	-0.8
Underground.....	34	41	-17.1	3,889	3,982	-2.3	4.05	4.02	0.9
Surface.....	31	29	6.9	651	639	1.9	4.26	4.78	-10.8
Southern.....	353	349	1.1	15,509	15,455	0.3	3.10	3.09	0.4
Underground.....	205	206	-0.5	9,552	9,208	3.7	2.30	2.36	-2.5
Surface.....	148	143	3.5	5,957	6,247	-4.6	4.25	4.08	4.1
Wyoming.....	21	21	-	6,383	5,837	9.4	33.30	35.46	-6.1
Underground.....	1	1	-	204	128	59.4	6.47	1.84	252.6
Surface.....	20	20	-	6,179	5,709	8.2	34.19	36.24	-5.7
Appalachian Total.....	1,632	1,700	-4.0	53,854	55,632	-3.2	3.10	3.13	-0.9
Underground.....	713	767	-7.0	34,961	35,758	-2.2	2.91	2.95	-1.3
Surface.....	919	933	-1.5	18,893	19,874	-4.9	3.44	3.45	-0.3
Northern.....	509	521	-2.3	15,060	15,050	0.1	3.87	4.02	-3.7
Underground.....	141	153	-7.8	10,707	10,670	0.3	4.29	4.40	-2.5
Surface.....	368	368	-	4,353	4,380	-0.6	2.76	3.02	-8.5
Central.....	1,060	1,111	-4.6	34,938	36,387	-4.0	2.86	2.89	-0.8
Underground.....	558	600	-7.0	21,793	22,467	-3.0	2.29	2.38	-3.6
Surface.....	502	511	-1.8	13,145	13,920	-5.6	3.74	3.67	2.0
Southern.....	63	68	-7.4	3,856	4,195	-8.1	2.23	2.01	10.9
Underground.....	14	14	-	2,461	2,621	-6.1	2.08	1.74	19.1
Surface.....	49	54	-9.3	1,395	1,574	-11.4	2.49	2.51	-1.0
Interior Total.....	136	146	-6.8	12,829	12,691	1.1	4.85	5.10	-4.8
Underground.....	52	59	-11.9	7,433	7,451	-0.2	3.52	3.54	-0.8
Surface.....	84	87	-3.4	5,396	5,240	3.0	6.76	7.35	-8.0
Illinois Basin.....	106	114	-7.0	9,794	9,784	0.1	4.04	4.07	-0.7
Underground.....	49	56	-12.5	7,264	7,337	-1.0	3.56	3.57	-0.3
Surface.....	57	58	-1.7	2,530	2,447	3.4	5.39	5.49	-1.8
Western Total.....	71	74	-4.1	14,490	14,550	-0.4	20.40	20.19	1.0
Underground.....	30	31	-3.2	4,329	4,266	1.5	6.73	6.77	-0.6
Surface.....	41	43	-4.7	10,161	10,284	-1.2	26.28	25.70	2.3
Powder River Basin.....	18	18	-	6,399	5,852	9.3	35.30	37.57	-6.0
Underground.....	-	-	-	-	-	-	-	-	-
Surface.....	18	18	-	6,399	5,852	9.3	35.30	37.57	-6.0
Uinta Region.....	28	31	-9.7	4,165	4,182	-0.4	6.76	7.11	-4.9
Underground.....	24	26	-7.7	3,668	3,657	0.3	6.60	6.92	-4.7
Surface.....	4	5	-20.0	497	525	-5.3	7.97	8.41	-5.2
East of Miss. River.....	1,739	1,815	-4.2	63,825	65,594	-2.7	3.27	3.29	-0.7
Underground.....	762	823	-7.4	42,225	43,095	-2.0	3.03	3.06	-1.0
Surface.....	977	992	-1.5	21,600	22,499	-4.0	3.73	3.74	-0.3
West of Miss. River.....	100	105	-4.8	17,348	17,279	0.4	18.23	18.33	-0.5
Underground.....	33	34	-2.9	4,498	4,380	2.7	6.52	6.62	-1.4
Surface.....	67	71	-5.6	12,850	12,899	-0.4	22.36	22.27	0.4
Subtotal.....	1,839	1,920	-4.2	81,173	82,873	-2.1	6.27	6.27	0.1
Underground.....	795	857	-7.2	46,723	47,475	-1.6	3.34	3.37	-0.6
Surface.....	1,044	1,063	-1.8	34,450	35,398	-2.7	10.25	10.19	0.6
Refuse Recovery.....	20	15	33.3	105	86	22.1	5.77	4.33	33.3
U.S. Total.....	1,859	1,935	-3.9	81,278	82,959	-2.0	6.27	6.26	0.1

¹ For a definition of coal producing regions, see Glossary.

² Mining operations that consist of a mine and preparation plant or preparation plant only processing both underground and surface coal are reported as two operations.

³ Includes all employees engaged in production, preparation, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers.

⁴ Calculated by dividing total coal production by the total labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers.

* Absolute percentage less than 0.05.

- = No data are reported.

Note: • Excludes preparation plants with less than 5,000 employee hours per year, which are not required to provide data.

Source: • Energy Information Administration 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."