

Table 2.2a Recoverable Coal Reserves at Producing Mines, Estimated Recoverable Reserves and Demonstrated Reserve Base by State and Mining Method, 2008

Million Short Tons

Rank (by demonstrated reserve base)	State	Underground			Surface			Total			Percent of Total		
		Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base
1	Montana	w	35,922	70,957	w	38,889	48,110	925	74,810	119,067	5.2%	28.6%	24.4%
2	Illinois	1,146	27,876	87,757	43	10,060	16,529	1,189	37,935	104,286	6.7%	14.5%	21.4%
3	Wyoming	w	22,943	42,486	w	16,247	19,618	7,010	39,190	62,104	39.2%	15.0%	12.7%
4	West Virginia	1,410	15,300	28,669	498	2,220	3,518	1,908	17,520	32,187	10.7%	6.7%	6.6%
5	Kentucky	923	7,194	16,631	244	7,381	12,784	1,167	14,575	29,416	6.5%	5.6%	6.0%
	<i>Eastern Kentucky</i>	511	504	902	218	5,121	9,171	729	5,625	10,073	4.1%	2.2%	2.1%
	<i>Western Kentucky</i>	412	6,691	15,729	26	2,260	3,613	438	8,950	19,342	2.5%	3.4%	4.0%
6	Pennsylvania	424	10,538	22,900	102	1,016	4,207	526	11,554	27,107	2.9%	4.4%	5.6%
7	Ohio	221	7,677	17,450	86	3,747	5,725	308	11,424	23,174	1.7%	4.4%	4.8%
8	Colorado	w	5,916	11,273	w	3,745	4,760	325	9,661	16,033	1.8%	3.7%	3.3%
9	Texas	--	--	--	752	9,412	12,227	752	9,412	12,227	4.2%	3.6%	2.5%
10	New Mexico	w	2,782	6,114	w	4,140	5,906	605	6,922	12,020	3.4%	2.6%	2.5%
11	Indiana	298	3,593	8,674	123	381	651	421	3,973	9,325	2.4%	1.5%	1.9%
12	North Dakota	--	--	--	1,225	6,821	8,941	1,225	6,821	8,941	6.9%	2.6%	1.8%
13	Alaska	--	2,335	5,423	w	495	682	w	2,829	6,105	--	1.1%	1.3%
14	Missouri	--	689	1,479	w	3,157	4,509	w	3,846	5,988	--	1.5%	1.2%
15	Utah	212	2,441	4,979	--	212	268	212	2,652	5,246	1.2%	1.0%	1.1%
16	Alabama	279	473	938	51	2,256	3,167	330	2,729	4,106	1.8%	1.0%	0.8%
17	Iowa	--	807	1,732	--	320	457	--	1,127	2,189	--	0.4%	0.4%
18	Virginia	172	578	1,030	44	171	525	217	750	1,555	1.2%	0.3%	0.3%
19	Oklahoma	w	572	1,228	w	223	319	85	795	1,547	0.5%	0.3%	0.3%
20	Washington	--	674	1,332	--	6	8	--	681	1,340	--	0.3%	0.3%
21	Kansas	--	--	--	w	680	971	w	680	971	--	0.3%	0.2%
22	Tennessee	2	227	505	8	175	258	10	451	762	0.1%	0.2%	0.2%
23	Maryland	w	312	569	w	39	57	22	351	627	0.1%	0.1%	0.1%
24	Arkansas	w	127	272	--	101	144	w	228	416	--	0.1%	0.1%
25	Louisiana	--	--	--	w	302	408	w	302	408	--	0.1%	0.1%
26	South Dakota	--	--	--	--	277	366	--	277	366	--	0.1%	0.1%
27	Michigan	--	55	123	--	3	5	--	59	128	--	0.0%	0.0%
28	Oregon	--	6	15	--	2	3	--	9	17	--	0.0%	0.0%
29	North Carolina	--	5	11	--	--	--	--	5	11	--	0.0%	0.0%
30	Idaho	--	2	4	--	--	--	--	2	4	--	0.0%	0.0%
31	Georgia	--	1	2	--	1	2	--	2	4	--	0.0%	0.0%
32	Mississippi	--	--	--	w	--	--	w	--	--	--	--	--
33	Arizona	--	--	--	w	--	--	w	--	--	--	--	--
	Appalachian Total	w	35,615	72,976	w	14,746	26,630	w	50,411	99,606	--	19.3%	20.4%
	Interior Total	w	40,410	116,994	w	26,899	39,833	w	67,307	156,827	--	25.7%	32.2%
	Western Total	w	73,021	142,583	w	70,834	88,662	w	143,854	231,243	--	55.0%	47.4%
	East of the Mississippi River	w	73,831	185,263	w	27,450	47,428	w	101,330	232,692	--	38.7%	47.7%
	West of the Mississippi River	w	75,214	147,290	w	85,029	107,697	w	160,242	254,985	--	61.3%	52.3%
	U.S. Total	5,819	149,095	332,553	12,057	112,477	155,124	17,875	261,573	487,678			

w = Withheld to avoid disclosure of individual company data

Source: [EIA, Annual Coal Report, 2008](#)

Note: Recoverable coal reserves at producing mines represent the quantity of coal that can be removed from existing coal reserves at reporting mines. Estimated recoverable reserves include the coal in the demonstrated reserve base considered recoverable after excluding coal estimated to be unavailable due to land use restrictions or currently economically unattractive for mining, and after applying assumed mining recovery rates. The demonstrated reserve base includes publicly available data on coal mapped to measured and indicated degrees of accuracy and found at depths and in coalbed thicknesses considered technologically minable at the time of determinations.

Table 2.2b Recoverable Coal Reserves at Producing Mines, Estimated Recoverable Reserves and Demonstrated Reserve Base by State and Mining Method, 2007

Million Short Tons

Rank (by demonstrated reserve base)	State	Underground			Surface			Total			Percent of Total			
		Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	
1	Montana	w	35,922	70,957	w	38,934	48,166	1,251	74,856	119,123	6.7%	28.5%	24.3%	
2	Illinois	1,253	27,893	87,811	33	10,064	16,536	1,286	37,957	104,347	6.9%	14.4%	21.3%	
3	Wyoming	w	22,946	42,493	w	16,728	20,198	7,330	39,674	62,692	39.4%	15.1%	12.8%	
4	West Virginia	1,285	15,395	28,845	543	2,274	3,605	1,828	17,669	32,450	9.8%	6.7%	6.6%	
5	Kentucky	886	7,265	16,770	296	7,417	12,848	1,182	14,682	29,618	6.4%	5.6%	6.1%	
	<i>Eastern Kentucky</i>	503	553	990	166	5,154	9,229	669	5,707	10,219	3.6%	2.2%	2.1%	
	<i>Western Kentucky</i>	383	6,712	15,780	130	2,263	3,619	513	8,975	19,399	2.8%	3.4%	4.0%	
6	Pennsylvania	427	10,595	23,006	105	1,026	4,222	532	11,621	27,228	2.9%	4.4%	5.6%	
7	Ohio	230	7,692	17,484	103	3,755	5,736	333	11,447	23,220	1.8%	4.4%	4.7%	
8	Colorado	w	5,946	11,331	w	3,746	4,761	328	9,692	16,092	1.8%	3.7%	3.3%	
9	Texas	--	--	--	737	4,994	12,276	737	9,449	12,276	4.0%	3.6%	2.5%	
10	New Mexico	w	2,788	6,128	w	4,156	5,929	483	6,944	12,057	2.6%	2.6%	2.5%	
11	Indiana	272	3,603	8,699	129	398	681	401	4,001	9,379	2.2%	1.5%	1.9%	
12	North Dakota	--	--	--	1,252	6,849	8,978	1,252	6,849	8,978	6.7%	2.6%	1.8%	
13	Alaska	--	2,335	5,423	w	496	684	w	2,831	6,107	--	1.1%	1.2%	
14	Missouri	--	689	1,479	w	3,157	4,509	w	3,846	5,988	--	1.5%	1.2%	
15	Utah	211	2,465	5,028	--	212	268	211	2,676	5,295	1.1%	1.0%	1.1%	
16	Alabama	275	485	963	52	2,264	3,178	327	2,749	4,141	1.8%	1.0%	0.8%	
17	Iowa	--	807	1,732	--	320	457	--	1,127	2,189	--	0.4%	0.4%	
18	Virginia	208	596	1,062	48	171	536	256	767	1,598	1.4%	0.3%	0.3%	
19	Oklahoma	w	573	1,229	w	224	320	155	797	1,549	0.8%	0.3%	0.3%	
20	Washington	--	674	1,332	--	6	8	--	681	1,340	--	0.3%	0.3%	
21	Kansas	--	--	--	w	680	971	w	680	971	--	0.3%	0.2%	
22	Tennessee	2	277	506	10	176	260	12	454	766	0.1%	0.2%	0.2%	
23	Maryland	w	313	571	w	41	60	24	354	631	0.1%	0.1%	0.1%	
24	Arkansas	w	127	272	--	101	144	w	228	417	--	0.1%	0.1%	
25	Louisiana	--	--	--	w	306	412	w	306	412	--	0.1%	0.1%	
26	South Dakota	--	--	--	--	277	366	--	277	366	--	0.1%	0.1%	
27	Michigan	--	55	123	--	3	5	--	59	128	--	0.0%	0.0%	
28	Oregon	--	6	15	--	2	3	--	9	17	--	0.0%	0.0%	
29	North Carolina	--	5	11	--	--	--	--	5	11	--	0.0%	0.0%	
30	Idaho	--	2	4	--	--	--	--	2	4	--	0.0%	0.0%	
31	Georgia	--	1	2	--	1	2	--	2	4	--	0.0%	0.0%	
32	Mississippi	--	--	--	w	--	--	w	--	--	--	--	--	
33	Arizona	--	--	--	w	--	--	w	--	--	--	--	--	
	Appalachian Total	w	35,912	73,440	w	14,862	26,828	w	50,775	100,268	--	19.3%	20.5%	
	Interior Total	w	40,459	117,125	w	22,510	39,930	w	67,425	157,055	--	25.7%	32.1%	
	Western Total	w	73,084	142,711	w	71,406	89,361	w	144,491	232,071	--	55.0%	47.4%	
	East of the Mississippi River	w	74,177	185,857	w	27,590	47,669	w	101,769	233,525	--	38.7%	47.7%	
	West of the Mississippi River	w	75,278	147,419	w	81,188	108,450	w	160,922	255,869	--	61.3%	52.3%	
	U.S. Total		5,827	149,457	333,277	12,757	113,232	156,118	18,584	262,689	489,395			

w = Withheld to avoid disclosure of individual company data

Source: [EIA, Annual Coal Report, 2007](#)

Note: Recoverable coal reserves at producing mines represent the quantity of coal that can be removed from existing coal reserves at reporting mines. Estimated recoverable reserves include the coal in the demonstrated reserve base considered recoverable after excluding coal estimated to be unavailable due to land use restrictions or currently economically unattractive for mining, and after applying assumed mining recovery rates. The demonstrated reserve base includes publicly available data on coal mapped to measured and indicated degrees of accuracy and found at depths and in coalbed thicknesses considered technologically minable at the time of determinations.

Table 2.2c Recoverable Coal Reserves at Producing Mines, Estimated Recoverable Reserves and Demonstrated Reserve Base by State and Mining Method, 2006

Million Short Tons

Rank (by demonstrated reserve base)	State	Underground			Surface			Total			Percent of Total			
		Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	
1	Montana	w	35,922	70,957	w	38,979	48,220	1,211	74,901	119,177	6.4%	28.4%	24.3%	
2	Illinois	1,255	27,910	87,865	40	10,068	16,543	1,294	37,978	104,408	6.9%	14.4%	21.3%	
3	Wyoming	w	22,949	42,499	w	17,195	20,762	7,890	40,144	63,261	41.8%	15.2%	12.9%	
4	West Virginia	1,206	15,485	29,015	588	2,329	3,691	1,793	17,814	32,706	9.5%	6.8%	6.7%	
5	Kentucky	962	7,336	16,909	171	7,449	12,906	1,134	14,785	29,814	6.0%	5.6%	6.1%	
	<i>Eastern Kentucky</i>	554	603	1,080	149	5,183	9,282	703	5,786	10,362	3.7%	2.2%	2.1%	
	<i>Western Kentucky</i>	408	6,733	15,829	23	2,266	3,624	431	8,999	19,452	2.3%	3.4%	4.0%	
6	Pennsylvania	468	10,652	23,113	79	1,035	4,236	548	11,687	27,349	2.9%	4.4%	5.6%	
7	Ohio	192	7,706	17,515	99	3,760	5,745	291	11,466	23,260	1.5%	4.3%	4.7%	
8	Colorado	w	5,981	11,397	w	3,746	4,761	335	9,727	16,158	1.8%	3.7%	3.3%	
9	Texas	--	--	--	730	9,490	12,328	730	9,490	12,328	3.9%	3.6%	2.5%	
10	New Mexico	w	2,794	6,142	w	4,171	5,951	504	6,965	12,093	2.7%	2.6%	2.5%	
11	Indiana	249	3,611	8,720	135	416	711	384	4,027	9,431	2.0%	1.5%	1.9%	
12	North Dakota	--	--	--	1,145	6,877	9,015	1,145	6,877	9,015	6.1%	2.6%	1.8%	
13	Alaska	--	2,335	5,423	w	497	685	w	2,832	6,108	--	1.1%	1.2%	
14	Missouri	--	689	1,479	w	3,157	4,510	w	3,846	5,989	--	1.5%	1.2%	
15	Utah	243	2,488	5,076	--	212	268	243	2,700	5,344	1.3%	1.0%	1.1%	
16	Alabama	280	497	986	56	2,271	3,188	336	2,767	4,174	1.8%	1.0%	0.8%	
17	Iowa	--	807	1,732	--	320	457	--	1,127	2,189	--	0.4%	0.4%	
18	Virginia	223	614	1,093	51	171	548	273	785	1,642	1.4%	0.3%	0.3%	
19	Oklahoma	w	573	1,230	w	225	321	23	798	1,551	0.1%	0.3%	0.3%	
20	Washington	--	674	1,332	w	6	8	w	681	1,340	--	0.3%	0.3%	
21	Kansas	--	--	--	w	680	972	w	680	972	--	0.3%	0.2%	
22	Tennessee	12	278	508	8	178	262	21	456	770	0.1%	0.2%	0.2%	
23	Maryland	w	314	572	w	42	62	28	356	634	0.1%	0.1%	0.1%	
24	Arkansas	w	127	272	--	101	144	w	228	417	--	0.1%	0.1%	
25	Louisiana	--	--	--	w	309	416	w	309	416	--	0.1%	0.1%	
26	South Dakota	--	--	--	--	277	366	--	277	366	--	0.1%	0.1%	
27	Michigan	--	55	123	--	3	5	--	59	128	--	0.0%	0.0%	
28	Oregon	--	6	15	--	2	3	--	9	17	--	0.0%	0.0%	
29	North Carolina	--	5	11	--	--	--	--	5	11	--	0.0%	0.0%	
30	Idaho	--	2	4	--	--	--	--	2	4	--	0.0%	0.0%	
31	Georgia	--	1	2	--	1	2	--	2	4	--	0.0%	0.0%	
32	Mississippi	--	--	--	w	--	--	w	--	--	--	--	--	
33	Arizona	--	--	--	w	--	--	w	--	--	--	--	--	
	Appalachian Total	w	36,155	73,895	w	14,970	27,016	w	51,124	100,912	--	19.4%	20.5%	
	Interior Total	w	40,505	117,250	w	27,035	40,031	w	67,541	157,281	--	25.6%	32.0%	
	Western Total	w	73,151	142,845	w	71,962	90,039	w	145,115	232,883	--	55.0%	47.4%	
	East of the Mississippi River	w	74,466	186,436	w	27,723	47,899	w	102,189	234,335	--	38.7%	47.7%	
	West of the Mississippi River	w	75,345	147,554	w	86,244	109,187	w	161,591	256,741	--	61.3%	52.3%	
	U.S. Total		5,897	149,814	333,991	12,983	113,967	157,085	18,880	263,781	491,076			

w = Withheld to avoid disclosure of individual company data

Source: [EIA, Annual Coal Report, 2006](#)

Note: Recoverable coal reserves at producing mines represent the quantity of coal that can be removed from existing coal reserves at reporting mines. Estimated recoverable reserves include the coal in the demonstrated reserve base considered recoverable after excluding coal estimated to be unavailable due to land use restrictions or currently economically unattractive for mining, and after applying assumed mining recovery rates. The demonstrated reserve base includes publicly available data on coal mapped to measured and indicated degrees of accuracy and found at depths and in coalbed thicknesses considered technologically minable at the time of determinations.

Table 2.2d Recoverable Coal Reserves at Producing Mines, Estimated Recoverable Reserves and Demonstrated Reserve Base by State and Mining Method, 2005

Million Short Tons

Rank (by demonstrated reserve base)	State	Underground			Surface			Total			Percent of Total		
		Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base
1	Montana	w	35,922	70,958	w	39,021	48,272	1,234	74,944	119,230	6.5%	28.0%	24.2%
2	Illinois	708	27,927	87,919	40	10,073	16,550	747	38,000	104,469	3.9%	14.2%	21.2%
3	Wyoming	w	22,950	42,500	w	17,657	21,319	7,975	40,607	63,819	42.1%	15.2%	12.9%
4	West Virginia	1,179	15,576	29,184	562	2,382	3,775	1,741	17,958	32,960	9.2%	6.7%	6.7%
5	Kentucky	965	7,411	17,055	204	7,483	12,965	1,169	14,894	30,020	6.2%	5.6%	6.1%
	<i>Eastern Kentucky</i>	603	658	1,178	181	5,214	9,337	784	5,872	10,516	4.1%	2.2%	2.1%
	<i>Western Kentucky</i>	362	6,753	15,877	23	2,269	3,628	385	9,022	19,504	2.0%	3.4%	4.0%
6	Pennsylvania	520	10,710	23,221	96	1,044	4,251	616	11,754	27,472	3.3%	4.4%	5.6%
7	Ohio	205	7,719	17,546	166	3,767	5,754	371	11,486	23,300	2.0%	4.3%	4.7%
8	Colorado	338	6,015	11,461	44	3,747	4,762	382	9,761	16,223	2.0%	3.6%	3.3%
9	Texas	--	--	--	772	9,534	12,385	772	9,534	12,385	4.1%	3.6%	2.5%
10	New Mexico	w	2,801	6,156	w	4,188	5,975	526	6,988	12,131	2.8%	2.6%	2.5%
11	Indiana	249	3,620	8,741	133	434	742	382	4,054	9,483	2.0%	1.5%	1.9%
12	North Dakota	--	--	--	1,214	6,906	9,053	1,214	6,906	9,053	6.4%	2.6%	1.8%
13	Alaska	--	2,335	5,423	w	499	687	w	2,834	6,110	--	1.1%	1.2%
14	Missouri	--	689	1,479	w	3,157	4,510	w	3,847	5,989	--	1.4%	1.2%
15	Utah	281	2,514	5,128	--	212	268	281	2,726	5,396	1.5%	1.0%	1.1%
16	Alabama	306	508	1,007	50	2,278	3,198	355	2,785	4,205	1.9%	1.0%	0.9%
17	Iowa	--	807	1,732	--	320	457	--	1,127	2,189	--	0.4%	0.4%
18	Virginia	235	2,949	1,130	59	171	562	294	3,121	1,693	1.6%	1.2%	0.3%
19	Oklahoma	w	574	1,231	w	226	323	15	800	1,554	0.1%	0.3%	0.3%
20	Washington	--	1,030	1,332	w	6	8	w	1,036	1,340	--	0.4%	0.3%
21	Kansas	--	--	--	w	681	972	w	681	972	--	0.3%	0.2%
22	Tennessee	8	280	510	11	179	264	19	459	774	0.1%	0.2%	0.2%
23	Maryland	w	317	578	w	44	65	35	361	643	0.2%	0.1%	0.1%
24	Louisiana	--	--	--	w	312	422	w	312	422	--	0.1%	0.1%
25	Arkansas	--	127	272	--	101	144	--	228	417	--	0.1%	0.1%
26	South Dakota	--	--	--	--	277	366	--	277	366	--	0.1%	0.1%
27	Idaho	--	2	160	--	--	--	--	2	160	--	0.0%	0.0%
28	Michigan	--	55	123	--	3	5	--	59	128	--	0.0%	0.0%
29	Oregon	--	6	15	--	2	3	--	9	17	--	0.0%	0.0%
30	North Carolina	--	5	11	--	--	--	--	5	11	--	0.0%	0.0%
31	Georgia	--	1	2	--	1	2	--	2	4	--	0.0%	0.0%
32	Mississippi	--	--	--	w	--	--	w	--	--	--	--	--
33	Arizona	--	--	--	w	--	--	w	--	--	--	--	--
	Appalachian Total	w	38,723	74,367	w	15,080	27,208	w	53,803	101,578	--	20.1%	20.6%
	Interior Total	w	40,552	117,374	w	27,110	40,138	w	67,664	157,512	--	25.3%	32.0%
	Western Total	w	73,575	143,133	w	72,515	90,713	w	146,090	233,845	--	54.6%	47.4%
	East of the Mississippi River	w	77,080	187,187	w	27,859	48,133	w	104,940	235,322	--	39.2%	47.7%
	West of the Mississippi River	w	75,770	147,687	w	86,846	109,926	w	162,617	257,613	--	60.8%	52.3%
	U.S. Total	5,502	152,850	334,876	13,442	114,705	158,059	18,944	267,554	492,935			

w = Withheld to avoid disclosure of individual company data

Source: [EIA, Annual Coal Report, 2005](#)

Note: Recoverable coal reserves at producing mines represent the quantity of coal that can be removed from existing coal reserves at reporting mines. Estimated recoverable reserves include the coal in the demonstrated reserve base considered recoverable after excluding coal estimated to be unavailable due to land use restrictions or currently economically unattractive for mining, and after applying assumed mining recovery rates. The demonstrated reserve base includes publicly available data on coal mapped to measured and indicated degrees of accuracy and found at depths and in coalbed thicknesses considered technologically minable at the time of determinations.

Table 2.2e Recoverable Coal Reserves at Producing Mines, Estimated Recoverable Reserves and Demonstrated Reserve Base by State and Mining Method, 2004

Million Short Tons

Rank (by demonstrated reserve base)	State	Underground			Surface			Total			Percent of Total		
		Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base
1	Montana	w	35,922	70,958	w	39,067	48,322	1,140	74,989	119,280	6.3%	28.1%	24.1%
2	Illinois	760	27,944	87,972	36	10,075	16,557	796	38,019	104,529	4.4%	14.2%	21.1%
3	Wyoming	w	22,950	42,501	w	18,853	21,824	7,053	41,804	64,325	38.9%	15.6%	13.0%
4	West Virginia	1,136	15,673	29,366	382	2,431	3,854	1,518	18,104	33,220	8.4%	6.8%	6.7%
5	Kentucky	948	7,488	17,202	181	7,516	13,023	1,129	15,004	30,225	6.2%	5.6%	6.1%
	<i>Eastern Kentucky</i>	669	716	1,282	154	5,244	9,389	823	5,960	10,671	4.5%	2.2%	2.2%
	<i>Western Kentucky</i>	279	6,772	15,920	26	2,273	3,634	306	9,044	19,554	1.7%	3.4%	4.0%
6	Pennsylvania	521	10,768	23,330	93	1,055	4,267	614	11,822	27,597	3.4%	4.4%	5.6%
7	Ohio	199	7,733	17,577	119	3,774	5,765	318	11,507	23,342	1.8%	4.3%	4.7%
8	Colorado	362	6,050	11,529	53	3,748	4,764	415	9,798	16,293	2.3%	3.7%	3.3%
9	Texas	--	--	--	546	9,578	12,442	546	9,578	12,442	3.0%	3.6%	2.5%
10	New Mexico	w	2,848	6,171	w	4,086	6,001	1,304	6,934	12,172	7.2%	2.6%	2.5%
11	Indiana	256	3,630	8,764	142	451	771	398	4,080	9,534	2.2%	1.5%	1.9%
12	North Dakota	--	--	--	1,191	6,935	9,090	1,191	6,935	9,090	6.6%	2.6%	1.8%
13	Alaska	--	2,745	5,423	w	545	689	w	3,291	6,112	--	1.2%	1.2%
14	Missouri	--	689	1,479	w	3,158	4,511	w	3,847	5,990	--	1.4%	1.2%
15	Utah	317	2,538	5,177	--	212	268	317	2,750	5,445	1.7%	1.0%	1.1%
16	Alabama	308	521	1,034	33	2,285	3,208	341	2,806	4,242	1.9%	1.0%	0.9%
17	Iowa	--	807	1,732	--	320	457	--	1,127	2,189	--	0.4%	0.4%
18	Virginia	200	653	1,163	50	369	576	250	1,022	1,740	1.4%	0.4%	0.4%
19	Oklahoma	w	574	1,232	w	227	325	17	801	1,557	0.1%	0.3%	0.3%
20	Washington	--	674	1,332	w	7	8	w	681	1,341	--	0.3%	0.3%
21	Kansas	--	--	--	w	681	973	w	681	973	--	0.3%	0.2%
22	Tennessee	7	281	513	19	180	266	26	462	779	0.1%	0.2%	0.2%
23	Maryland	w	320	584	w	46	67	17	366	652	0.1%	0.1%	0.1%
24	Louisiana	--	--	--	w	316	427	w	316	427	--	0.1%	0.1%
25	Arkansas	--	127	272	--	101	144	--	228	417	--	0.1%	0.1%
26	South Dakota	--	--	--	--	277	366	--	277	366	--	0.1%	0.1%
27	Michigan	--	55	123	--	3	5	--	59	128	--	0.0%	0.0%
28	Oregon	--	7	15	--	2	3	--	9	17	--	0.0%	0.0%
29	North Carolina	--	5	11	--	--	--	--	5	11	--	0.0%	0.0%
30	Arizona	--	--	--	w	5	7	w	5	7	--	0.0%	0.0%
31	Idaho	--	2	4	--	--	--	--	2	4	--	0.0%	0.0%
31	Georgia	--	1	2	--	1	2	--	2	4	--	0.0%	0.0%
33	Mississippi	--	--	--	w	--	--	w	--	--	--	--	--
	Appalachian Total	w	36,671	74,862	w	15,385	27,394	w	52,056	102,258	--	19.5%	20.7%
	Interior Total	w	40,598	117,494	w	27,183	40,246	w	67,780	157,740	--	25.4%	31.9%
	Western Total	w	73,736	143,110	w	73,737	91,342	w	147,475	234,452	--	55.2%	47.4%
	East of the Mississippi River	w	75,074	187,645	w	28,186	48,361	w	103,260	236,007	--	38.6%	47.7%
	West of the Mississippi River	w	75,931	147,821	w	88,118	110,621	w	164,051	258,443	--	61.4%	52.3%
	U.S. Total	5,339	151,007	335,468	12,783	116,305	158,982	18,122	267,312	494,450			

w = Withheld to avoid disclosure of individual company data

Source: [EIA, Annual Coal Report, 2004](#)

Note: Recoverable coal reserves at producing mines represent the quantity of coal that can be removed from existing coal reserves at reporting mines. Estimated recoverable reserves include the coal in the demonstrated reserve base considered recoverable after excluding coal estimated to be unavailable due to land use restrictions or currently economically unattractive for mining, and after applying assumed mining recovery rates. The demonstrated reserve base includes publicly available data on coal mapped to measured and indicated degrees of accuracy and found at depths and in coalbed thicknesses considered technologically minable at the time of determinations.

Table 2.2f Recoverable Coal Reserves at Producing Mines, Estimated Recoverable Reserves and Demonstrated Reserve Base by State and Mining Method, 2003

Million Short Tons

Rank	State	Underground			Surface			Total			Percent of Total		
		Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base
1	Montana	w	35,923	70,958	w	39,107	48,372	1,197	75,030	119,330	6.7%	28.0%	24.1%
2	Illinois	873	27,961	88,025	40	10,079	16,563	913	38,040	104,589	5.1%	14.2%	21.1%
3	Wyoming	--	22,950	42,501	6,707	19,282	22,320	6,707	42,232	64,821	37.4%	15.7%	13.1%
4	West Virginia	1,153	15,770	29,548	343	2,476	3,925	1,497	18,246	33,473	8.3%	6.8%	6.7%
5	Kentucky	796	7,563	17,346	198	7,546	13,076	994	15,109	30,422	5.5%	5.6%	6.1%
	<i>Eastern Kentucky</i>	468	775	1,387	171	5,270	9,437	639	6,045	10,824	3.6%	2.3%	2.2%
	<i>Western Kentucky</i>	328	6,788	15,959	27	2,276	3,639	355	9,064	19,597	2.0%	3.4%	4.0%
6	Pennsylvania	439	10,825	23,437	97	1,065	4,283	536	11,889	27,719	3.0%	4.4%	5.6%
7	Ohio	202	7,746	17,606	134	3,781	5,777	336	11,527	23,382	1.9%	4.3%	4.7%
8	Colorado	360	6,087	11,599	67	3,750	4,766	427	9,837	16,365	2.4%	3.7%	3.3%
9	Texas	--	--	--	623	9,622	12,500	623	9,622	12,500	3.5%	3.6%	2.5%
10	New Mexico	w	2,855	6,187	w	4,103	6,025	1,351	6,958	12,212	7.5%	2.6%	2.5%
11	Indiana	262	3,638	8,784	170	469	802	432	4,107	9,586	2.4%	1.5%	1.9%
12	North Dakota	--	--	--	1,211	6,963	9,128	1,211	6,963	9,128	6.7%	2.6%	1.8%
13	Alaska	--	2,745	5,423	w	547	691	w	3,292	6,114	--	1.2%	1.2%
14	Missouri	--	689	1,479	w	3,158	4,512	w	3,848	5,991	--	1.4%	1.2%
15	Utah	w	2,559	5,221	w	212	268	331	2,771	5,488	1.8%	1.0%	1.1%
16	Alabama	283	537	1,066	25	2,290	3,215	308	2,828	4,282	1.7%	1.1%	0.9%
17	Iowa	--	807	1,732	--	320	457	--	11,027	2,189	--	4.1%	0.4%
18	Virginia	192	676	1,204	34	378	590	226	1,054	1,794	1.3%	0.4%	0.4%
19	Oklahoma	w	574	1,233	w	229	327	17	803	1,559	0.1%	0.3%	0.3%
20	Washington	--	674	1,332	w	12	16	w	687	1,348	--	0.3%	0.3%
21	Kansas	--	--	--	--	681	973	--	681	973	--	0.3%	0.2%
22	Tennessee	4	282	515	18	182	269	22	464	783	0.1%	0.2%	0.2%
23	Maryland	w	324	591	w	47	70	61	371	661	0.3%	0.1%	0.1%
24	Louisiana	--	--	--	w	320	431	w	320	431	--	0.1%	0.1%
25	Arkansas	--	127	272	--	101	144	--	228	417	--	0.1%	0.1%
26	South Dakota	--	--	--	--	277	366	--	277	366	--	0.1%	0.1%
27	Michigan	--	55	123	--	3	5	--	59	128	--	0.0%	0.0%
28	Arizona	--	--	--	w	18	23	w	18	23	--	0.0%	0.0%
29	North Carolina	--	5	11	--	--	--	--	5	11	--	0.0%	0.0%
30	Idaho	--	2	4	--	--	--	--	2	4	--	0.0%	0.0%
30	Georgia	--	1	2	--	1	2	--	2	4	--	0.0%	0.0%
32	Mississippi	--	--	--	w	--	--	w	--	--	--	--	--
	Appalachian Total	w	36,941	75,367	w	15,490	27,568	w	52,431	102,933	--	19.5%	20.7%
	Interior Total	w	40,639	117,607	w	27,258	40,353	w	77,799	157,960	--	29.0%	31.8%
	Western Total	w	73,795	143,225	w	74,271	91,975	w	148,067	235,199	--	55.2%	47.4%
	East of the Mississippi River	w	75,383	188,258	w	28,317	48,577	w	103,701	236,834	--	38.6%	47.7%
	West of the Mississippi River	w	75,992	147,941	w	88,702	111,319	w	174,596	259,259	--	65.1%	52.3%
	U.S. Total	5,225	151,376	336,199	12,730	117,019	159,893	17,955	268,396	496,092			

w = Withheld to avoid disclosure of individual company data

Source: [EIA, Annual Coal Report, 2003](#)

Note: Recoverable coal reserves at producing mines represent the quantity of coal that can be removed from existing coal reserves at reporting mines. Estimated recoverable reserves include the coal in the demonstrated reserve base considered recoverable after excluding coal estimated to be unavailable due to land use restrictions or currently economically unattractive for mining, and after applying assumed mining recovery rates. The demonstrated reserve base includes publicly available data on coal mapped to measured and indicated degrees of accuracy and found at depths and in coalbed thicknesses considered technologically minable at the time of determinations.

Table 2.2g Recoverable Coal Reserves at Producing Mines, Estimated Recoverable Reserves and Demonstrated Reserve Base by State and Mining Method, 2002

Million Short Tons

Rank	State	Underground			Surface			Total			Percent of Total		
		Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base
1	Montana	--	35,923	70,958	1,115	39,145	48,418	1,115	75,067	119,377	6.1%	27.9%	24.0%
2	Illinois	873	27,978	88,077	27	10,083	16,570	900	38,061	104,648	4.9%	14.1%	21.0%
3	Wyoming	--	22,950	42,501	6,673	19,688	22,790	6,673	42,638	65,291	36.6%	15.8%	13.1%
4	West Virginia	1,074	15,863	29,722	359	2,518	3,991	1,433	18,381	33,713	7.9%	6.8%	6.8%
5	Kentucky	812	7,636	17,484	198	7,577	13,130	1,010	15,213	30,614	5.5%	5.6%	6.2%
	<i>Eastern Kentucky</i>	535	833	1,491	168	5,298	9,486	703	6,131	10,977	3.9%	2.3%	2.2%
	<i>Western Kentucky</i>	277	6,803	15,993	30	2,279	3,644	307	9,082	19,637	1.7%	3.4%	3.9%
6	Pennsylvania	468	10,880	23,541	108	1,074	4,297	576	11,954	27,838	3.2%	4.4%	5.6%
7	Ohio	214	7,757	17,631	141	3,789	5,788	356	11,546	23,419	2.0%	4.3%	4.7%
8	Colorado	429	6,120	11,661	199	3,752	4,769	629	9,872	16,430	3.5%	3.7%	3.3%
9	Texas	--	--	--	673	9,668	12,559	673	9,668	12,559	3.7%	3.6%	2.5%
10	New Mexico	w	2,860	6,199	w	4,121	6,051	1,385	6,981	12,249	7.6%	2.6%	2.5%
11	Indiana	223	3,645	8,801	158	488	835	381	4,134	9,637	2.1%	1.5%	1.9%
12	North Dakota	--	--	--	1,211	6,993	9,166	1,211	6,993	9,166	6.6%	2.6%	1.8%
13	Alaska	--	2,745	5,423	w	548	692	w	3,293	6,115	--	1.2%	1.2%
14	Missouri	--	689	1,479	w	3,159	4,512	w	3,848	5,991	--	1.4%	1.2%
15	Utah	w	2,582	5,267	w	212	268	356	2,794	5,534	2.0%	1.0%	1.1%
16	Alabama	344	553	1,097	21	2,295	3,221	366	2,848	4,318	2.0%	1.1%	0.9%
17	Iowa	--	807	1,732	--	320	457	--	1,127	2,189	--	0.4%	0.4%
18	Virginia	220	700	1,247	41	386	603	261	1,086	1,850	1.4%	0.4%	0.4%
19	Oklahoma	w	575	1,233	w	230	328	18	804	1,562	0.1%	0.3%	0.3%
20	Washington	--	674	1,332	w	18	23	w	693	1,356	--	0.3%	0.3%
21	Kansas	--	--	--	w	681	973	w	681	973	--	0.3%	0.2%
22	Tennessee	5	283	516	10	184	271	16	467	787	0.1%	0.2%	0.2%
23	Maryland	w	327	597	w	49	72	65	376	669	0.4%	0.1%	0.1%
24	Louisiana	--	--	--	w	323	437	w	323	437	--	0.1%	0.1%
25	Arkansas	--	127	272	w	101	144	w	228	417	--	0.1%	0.1%
26	South Dakota	--	--	--	--	277	366	--	277	366	--	0.1%	0.1%
27	Michigan	--	55	123	--	3	5	--	59	128	--	0.0%	0.0%
28	Arizona	--	--	--	w	30	38	w	30	38	--	0.0%	0.0%
29	Oregon	--	7	15	--	2	3	--	9	17	--	0.0%	0.0%
30	North Carolina	--	5	11	--	--	--	--	5	11	--	0.0%	0.0%
31	Idaho	--	2	4	--	--	--	--	2	4	--	0.0%	0.0%
31	Georgia	--	1	2	--	1	2	--	2	4	--	0.0%	0.0%
	Appalachian Total	w	37,202	75,855	w	15,594	27,731	w	52,796	103,586	--	19.6%	20.8%
	Interior Total	w	40,679	117,710	w	27,335	40,464	w	68,015	158,178	--	25.2%	31.8%
	Western Total	w	73,863	143,360	w	74,786	92,584	w	148,649	235,943	--	55.2%	47.4%
	East of the Mississippi River	w	75,683	188,849	w	28,447	48,785	w	104,132	237,636	--	38.6%	47.7%
	West of the Mississippi River	w	76,061	148,076	w	89,268	111,994	w	165,328	260,071	--	61.4%	52.3%
	U.S. Total	5,231	151,744	336,928	12,985	117,713	160,780	18,216	269,457	497,708			

w = Withheld to avoid disclosure of individual company data

Source: [EIA, Annual Coal Report, 2002](#)

Note: Recoverable coal reserves at producing mines represent the quantity of coal that can be removed from existing coal reserves at reporting mines. Estimated recoverable reserves include the coal in the demonstrated reserve base considered recoverable after excluding coal estimated to be unavailable due to land use restrictions or currently economically unattractive for mining, and after applying assumed mining recovery rates. The demonstrated reserve base includes publicly available data on coal mapped to measured and indicated degrees of accuracy and found at depths and in coalbed thicknesses considered technologically minable at the time of determinations.

Table 2.2h Recoverable Coal Reserves at Producing Mines, Estimated Recoverable Reserves and Demonstrated Reserve Base by State and Mining Method, 2001

Million Short Tons

Rank (by demonstrated reserve base)	State	Underground			Surface			Total			Percent of Total		
		Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base
1	Montana	--	35,923	70,958	1,155	39,182	48,465	1,155	75,105	119,423	6.5%	27.8%	23.9%
2	Illinois	787	27,995	88,131	32	10,088	16,578	819	38,083	104,710	4.6%	14.1%	21.0%
3	Wyoming	--	22,950	42,501	6,100	20,091	23,257	6,100	43,041	65,758	34.3%	15.9%	13.2%
4	West Virginia	1,158	15,956	29,898	343	2,567	4,069	1,502	18,523	33,966	8.4%	6.8%	6.8%
5	Kentucky	812	7,715	17,635	275	7,611	13,191	1,087	15,326	30,826	6.1%	5.7%	6.2%
	<i>Eastern Kentucky</i>	582	896	1,604	246	5,328	9,539	829	6,224	11,143	4.7%	2.3%	2.2%
	<i>Western Kentucky</i>	229	6,819	16,031	29	2,284	3,651	258	9,103	19,682	1.4%	3.4%	3.9%
6	Pennsylvania	456	10,940	23,652	101	1,084	4,312	558	12,024	27,965	3.1%	4.4%	5.6%
7	Ohio	242	7,767	17,653	208	3,797	5,801	450	11,564	23,454	2.5%	4.3%	4.7%
8	Colorado	353	6,151	11,721	209	3,754	4,771	562	9,905	16,493	3.2%	3.7%	3.3%
9	Texas	--	--	--	724	9,711	12,616	724	9,711	12,616	4.1%	3.6%	2.5%
10	New Mexico	w	2,862	6,202	w	4,144	6,085	1,404	7,006	12,287	7.9%	2.6%	2.5%
11	Indiana	235	3,652	8,817	162	509	870	397	4,161	9,687	2.2%	1.5%	1.9%
12	North Dakota	--	--	--	1,151	7,022	9,205	1,151	7,022	9,205	6.5%	2.6%	1.8%
13	Alaska	--	2,745	5,423	w	549	694	w	3,294	6,117	--	1.2%	1.2%
14	Missouri	--	689	1,479	w	3,159	4,512	w	3,848	5,992	--	1.4%	1.2%
15	Utah	364	2,607	5,317	--	212	268	364	2,819	5,585	2.0%	1.0%	1.1%
16	Alabama	327	568	1,127	24	2,298	3,226	352	2,866	4,353	2.0%	1.1%	0.9%
17	Iowa	--	807	1,732	--	320	457	--	1,127	2,189	--	0.4%	0.4%
18	Virginia	206	723	1,288	34	394	615	240	1,117	1,902	1.3%	0.4%	0.4%
19	Oklahoma	w	575	1,234	w	231	329	19	806	1,564	0.1%	0.3%	0.3%
20	Washington	--	674	1,332	w	24	31	w	698	1,363	--	0.3%	0.3%
21	Kansas	--	--	--	w	681	973	w	681	973	--	0.3%	0.2%
22	Tennessee	10	284	518	14	186	274	24	470	792	0.1%	0.2%	0.2%
23	Maryland	w	331	604	w	50	74	72	381	678	0.4%	0.1%	0.1%
24	Louisiana	--	--	--	w	327	441	w	327	441	--	0.1%	0.1%
25	Arkansas	--	127	272	--	101	144	--	228	417	--	0.1%	0.1%
26	South Dakota	--	--	--	--	277	366	--	277	366	--	0.1%	0.1%
27	Michigan	--	55	123	--	3	5	--	58	128	--	0.0%	0.0%
28	Arizona	--	51	102	w	--	--	w	51	102	--	0.0%	0.0%
29	Oregon	--	7	15	--	2	3	--	9	18	--	0.0%	0.0%
30	North Carolina	--	5	11	--	--	--	--	5	11	--	0.0%	0.0%
31	Idaho	--	2	4	--	--	--	--	2	4	--	0.0%	0.0%
	Georgia	--	1	2	--	1	2	--	2	4	--	0.0%	0.0%
	Appalachian Total	w	37,472	76,359	w	15,706	27,914	w	53,178	104,272	--	19.7%	20.9%
	Interior Total	w	40,719	117,819	w	27,414	40,576	w	68,133	158,399	--	25.2%	31.7%
	Western Total	w	73,972	143,575	w	75,257	93,145	w	149,229	236,721	--	55.2%	47.4%
	East of the Mississippi River	w	75,992	189,459	w	28,588	49,017	w	104,580	238,476	--	38.7%	47.8%
	West of the Mississippi River	w	76,170	148,292	w	89,787	112,617	w	165,957	260,913	--	61.3%	52.2%
	U.S. Total	5,172	152,162	337,751	12,629	118,375	161,634	17,801	270,537	499,389			

w = Withheld to avoid disclosure of individual company data

Source: [EIA, Annual Coal Report, 2001](#)

Note: Recoverable coal reserves at producing mines represent the quantity of coal that can be removed from existing coal reserves at reporting mines. Estimated recoverable reserves include the coal in the demonstrated reserve base considered recoverable after excluding coal estimated to be unavailable due to land use restrictions or currently economically unattractive for mining, and after applying assumed mining recovery rates. The demonstrated reserve base includes publicly available data on coal mapped to measured and indicated degrees of accuracy and found at depths and in coalbed thicknesses considered technologically minable at the time of determinations.