

Forestry, Fishing, and Mining

This section presents data on the area, ownership, production, trade, reserves, and disposition of natural resources. Natural resources is defined here as including forestry, fisheries, and mining and mineral products.

Forestry—Presents data on the area, ownership, and timber resource of commercial timberland; forestry statistics covering the National Forests and Forest Service cooperative programs; product data for lumber, pulpwood, woodpulp, paper and paperboard, and similar data.

The principal sources of data relating to forests and forest products are *Forest Resources of the United States, 2007*; *Timber Demand and Technology Assessment*; *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2005*; *Land Areas of the National Forest System*, issued annually by the Forest Service of the U.S. Department of Agriculture; *Agricultural Statistics* issued by the Department of Agriculture; and reports of the annual survey of manufactures, and the annual *Current Industrial Reports*, issued by the U.S. Census Bureau on the Internet and in print in the annual *Manufacturing Profiles*. Additional information is published in the monthly *Survey of Current Business* of the Bureau of Economic Analysis, and the annual *Wood Pulp and Fiber Statistics* and *The Annual Statistics of Paper, Paperboard, and Wood Pulp* of the American Forest and Paper Association, Washington, DC.

The completeness and reliability of statistics on forests and forest products vary considerably. The data for forest land area and stand volumes are much more reliable for areas that have been recently surveyed than for those for which only estimates are available. In general, more data are available for lumber and other manufactured products such as particle board and softwood panels, etc., than for the primary forest products such as poles and piling and fuelwood.

Fisheries—The principal source of data relating to fisheries is *Fisheries of the United States*, issued annually by the National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA). The NMFS collects and disseminates data on commercial landings of fish and shellfish. Annual reports include quantity and value of commercial landings of fish and shellfish disposition of landings and number and kinds of fishing vessels and fishing gear. Reports for the fish-processing industry include annual output for the wholesaling and fish processing establishments, annual and seasonal employment. The principal source for these data is the annual *Fisheries of the United States*.

Mining and mineral products—Presents data relating to mineral industries and their products, general summary measures of production and employment, and more detailed data on production, prices, imports and exports, consumption, and distribution for specific industries and products. Data on mining and mineral products may also be found in Sections 19, 21, and 28 of this *Abstract*; data on mining employment may be found in Section 12.

Mining comprises the extraction of minerals occurring naturally (coal, ores, crude petroleum, natural gas) and quarrying, well operation, milling, refining and processing, and other preparation customarily done at the mine or well site or as a part of extraction activity. (Mineral preparation plants are usually operated together with mines or quarries.) Exploration for minerals is included as is the development of mineral properties.

The principal governmental sources of these data are the *Minerals Yearbook* and *Mineral Commodity Summaries*, published by the U.S. Geological Survey, U.S. Department of the Interior, and various monthly and annual publications of the Energy

Information Administration, U.S. Department of Energy. See text, Section 19, for a list of Department of Energy publications. In addition, the Census Bureau conducts a census of mineral industries every 5 years.

Nongovernment sources include the *Annual Statistical Report of the American Iron and Steel Institute*, Washington, DC; *Metals Week* and the monthly *Engineering and Mining Journal*, issued by the McGraw-Hill Publishing Co., New York, NY; *The Iron Age*, issued weekly by the Chilton Co., Philadelphia, PA; and the *Joint Association Survey of the U.S. Oil and Gas Industry*, conducted jointly by the American Petroleum Institute, Independent Petroleum Association of America, and Mid-Continent Oil and Gas Association.

Mineral statistics, with principal emphasis on commodity detail, have been collected by the U.S. Geological Survey and the

former Bureau of Mines since 1880. Current data in U.S. Geological Survey publications include quantity and value of non-fuel minerals produced, sold, or used by producers, or shipped; quantity of minerals stocked; crude materials treated and prepared minerals recovered; and consumption of mineral raw materials.

The Economic Census, conducted by the Census Bureau at various intervals since 1840, collects data on mineral industries. Beginning with the 1967 census, legislation provides for a census to be conducted every 5 years for years ending in "2" and "7." The most recent results, published for 2002, are based on the North American Industry Classification System (NAICS). The censuses provide, for the various types of mineral establishments, information on operating costs, capital expenditures, labor, equipment, and energy requirements in relation to their value of shipments and other receipts.

Table 848. Gross Domestic Product of Natural Resource-Related Industries in Current and Real (2000) Dollars by Industry: 2000 to 2008

[In billions of dollars (9,817.0 represents \$9,817,000,000,000). Data are based on the 1997 North American Industry Classification System (NAICS); see text, Section 15. Data include nonfactor charges (capital consumption allowances, indirect business taxes, etc.) as well as factor charges against gross product; corporate profits and capital consumption allowances have been shifted from a company to an establishment basis]

Industry	Current dollars				Chained (2000) dollars			
	2000	2005	2007	2008	2000	2005	2007	2008
All industries, total ¹	9,817.0	12,421.9	13,807.5	14,264.6	9,817.0	10,989.5	11,523.9	11,652.0
Industries covered	306.3	445.7	525.0	(NA)	306.3	309.3	316.3	(NA)
Percent of all industries	3.1	3.6	3.8	(NA)	3.1	2.8	2.7	(NA)
Agriculture, forestry, fishing, and hunting	98.0	133.3	167.9	157.7	98.0	120.5	122.1	121.4
Farms	71.5	104.1	137.3	(NA)	71.5	89.6	91.5	(NA)
Forestry, fishing, and related activities	26.5	29.2	30.7	(NA)	26.5	30.2	29.5	(NA)
Mining	121.3	223.8	275.0	325.3	121.3	103.7	111.4	110.5
Oil and gas extraction	81.0	150.5	164.7	(NA)	81.0	69.5	69.5	(NA)
Mining, except oil and gas	27.0	36.8	45.3	(NA)	27.0	25.2	24.8	(NA)
Support activities for mining	13.4	36.6	65.0	(NA)	13.4	10.3	14.7	(NA)
Timber-related manufacturing	87.0	88.6	82.1	(NA)	87.0	85.1	82.8	(NA)
Wood products	31.4	38.4	31.4	(NA)	31.4	32.0	31.7	(NA)
Paper products	55.6	50.2	50.7	(NA)	55.6	53.1	51.1	(NA)

NA Not available. ¹ Includes industries not shown separately.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, May 2009. See also <http://www.bea.gov/industry/gdpbyind_data.htm> (published 28 April 2009).

Table 849. Natural Resource-Related Industries—Establishments, Sales, Payroll, and Employees by Industry: 2002 and 2007

[183 represents \$183,000,000,000. Includes only establishments of firms with payroll. Data are based on the 2002 and 2007 economic censuses, which are subject to nonsampling error. For details on methodology and nonsampling and sampling errors, see Appendix III]

Industry	2002 NAICS code ¹	Establishments (number)		Value of shipments (bil. dol.)		Annual payroll (bil. dol.)		Paid employees ² (1,000)	
		2002	2007	2002	2007	2002	2007	2002	2007
Mining	21	24,087	21,169	183	369	21	37	475	703
Oil & gas extraction	211	7,730	6,293	113	231	5	10	99	162
Mining (except oil & gas) . . .	212	7,253	6,465	48	81	9	11	196	220
Mining support activities . . .	213	9,104	8,411	22	57	7	16	180	322
Manufacturing ³	31-33	350,728	293,919	3,915	5,339	568	612	15	13
Wood product mfg.	321	17,192	14,862	89	102	16	17	540	520
Paper mfg.	322	5,520	4,803	154	176	21	21	491	417
Petroleum & coal products manufacturing	324	2,268	2,284	216	606	6	8	104	105

¹ North American Industry Classification System, 2002. ² For pay period including March 12. ³ Includes other industries not shown separately.

Source: U.S. Census Bureau, 2007 Economic Census, *Comparative Statistics* (published 17 March 2009); using American FactFinder; <http://www.census.gov/econ/census07/www/get_data.html>.

Table 850. Natural Resource-Related Industries—Establishments, Employees, and Annual Payroll, by Industry: 2000 and 2006

[1,791.3 represents 1,791,300. Excludes government employees, railroad employees, self-employed persons, etc. See "General Explanation" in source for definitions and statement on reliability of data. An establishment is a single physical location where business is conducted or where services or industrial operations are performed]

Industry	2002 NAICS code ¹	Establishments (number)		Number of employees ² (1,000)		Annual payroll (bil. dol.)	
		2000	2006	2000	2006	2000	2006
Natural resource-related industries, total . . .	(X)	72,932	71,673	1,791.3	1,737.9	66.58	82.93
Forestry, fishing, hunting, and agriculture support	11	26,076	23,551	183.6	165.7	4.68	5.20
Forestry and logging	113	13,347	10,723	83.1	66.3	2.26	2.21
Timber tract operations	1131	469	454	3.3	2.8	0.13	0.13
Forest nurseries and gathering forest products	1132	258	231	1.7	2.1	0.07	0.07
Logging	1133	12,620	10,038	78.1	61.4	2.06	2.01
Fishing, hunting and trapping	114	2,671	2,372	10.0	7.5	0.34	0.35
Fishing	1141	2,308	2,024	7.5	5.6	0.27	0.29
Hunting and trapping	1142	363	348	2.5	1.9	0.08	0.06
Agriculture and forestry support activities	115	10,058	10,456	90.4	91.8	2.08	2.64
Crop production support activities	1151	5,061	4,557	57.6	59.3	1.35	1.70
Animal production support activities	1152	3,450	4,217	18.2	19.1	0.38	0.51
Forestry support activities	1153	1,547	1,682	14.7	13.5	0.35	0.44
Mining	21	23,738	26,248	456.1	554.3	22.09	37.49
Oil and gas extraction	211	7,740	7,803	83.0	92.7	5.39	9.57
Mining (except oil and gas)	212	7,231	7,278	204.3	205.3	9.34	11.68
Coal mining	2121	1,253	1,147	70.7	77.9	3.54	4.92
Metal ore mining	2122	522	307	34.8	27.7	1.72	1.83
Nonmetallic mineral mining and quarrying	2123	5,456	5,824	98.8	99.7	4.08	4.93
Mining support activities	213	8,767	11,167	168.8	256.3	7.35	16.24
Timber-related manufacturing	(X)	23,118	21,874	1,151.6	1,017.9	39.80	40.24
Wood product manufacturing	321	17,328	16,735	597.7	576.5	16.51	18.58
Sawmills and wood preservation	3211	4,695	4,223	131.4	118.5	3.78	4.02
Veneer, plywood and engineered wood product manufacturing	3212	1,904	1,956	120.6	124.5	3.75	4.36
Other wood product manufacturing	3219	10,729	10,556	345.8	333.6	8.95	10.21
Paper manufacturing	322	5,790	5,139	553.9	441.4	23.29	21.66
Pulp, paper and paperboard mills	3221	597	597	177.1	138.8	9.48	8.59
Converted paper product manufacturing	3222	5,193	4,542	376.8	302.7	13.82	13.06

X Not applicable. ¹ North American Industry Classification System, 2002. ² Covers full- and part-time employees who are on the payroll in the pay period including March 12.

Source: U.S. Census Bureau, "County Business Patterns," annual. See also <<http://www.census.gov/econ/cbp/index.html>>.

Table 851. Timber-Based Manufacturing Industries—Employees, Payroll, and Shipments: 2006

[In thousands (12,990 represents 12,990,000). Based on the Annual Survey of Manufactures; see Appendix III]

Selected industry	2002 NAICS code ¹	All employees			Production workers, total (1,000)	Value added by manufactures		Value of shipments (mil. dol.)
		Number (1,000)	Payroll			Total (mil. dol.)	Per production worker (dol.)	
			Total (mil. dol.)	Per employee (dol.)				
Manufacturing, all industries² . . .	31–33	12,990	592,342	45,599	9,179	2,305,589	251,179	5,019,963
Timber-based manufacturing, total	321–322	950	38,781	40,816	754	125,032	165,826	282,765
Percent of total manufacturing	(X)	7.31	6.55	(X)	8.21	5.42	(X)	5.63
Wood product manufacturing	321	536	18,141	33,839	432	44,432	102,776	112,404
Sawmills and wood preservation . . .	3211	104	3,863	37,146	87	9,854	112,833	32,163
Veneer, plywood, and engineered wood product	3212	115	4,171	36,360	92	10,475	113,662	25,746
Other wood product	3219	317	10,107	31,844	253	24,103	95,334	54,496
Millwork	32191	160	5,355	33,524	127	12,781	100,684	30,436
Wood container and pallet	32192	52	1,398	27,064	43	3,016	69,885	6,542
All other wood products	32199	106	3,354	31,640	83	8,306	100,402	17,518
Paper manufacturing	322	414	20,640	49,849	322	80,601	250,558	170,361
Pulp, paper, and paperboard mills . .	3221	128	8,015	62,687	102	42,047	414,237	79,961
Pulp mills	32211	7	486	72,161	5	1,767	331,685	4,257
Paper mills	32212	85	5,227	61,430	68	28,494	420,245	52,485
Paperboard mills	32213	36	2,302	63,884	28	11,787	415,361	23,219
Converted paper product	3222	286	12,625	44,114	220	38,554	175,101	90,400
Paperboard container	32221	162	7,226	44,655	124	18,631	149,807	48,733
Paper bag and coated and treated paper	32222	56	2,618	46,338	42	9,033	216,072	19,858
Stationery product	32223	32	1,230	39,005	25	3,470	140,136	8,360
Other converted paper products . . .	32229	36	1,551	42,683	29	7,419	253,696	13,448

X Not applicable. ¹ North American Industry Classification System, 2002; see text, Section 15. ² Includes other industries not shown separately.

Source: U.S. Census Bureau, "Annual Survey of Manufactures, 2006" (published 31 December 2006); <<http://www.census.gov/mcd/asm-as1.html>>.

Table 852. Forest Land and Timberland by Type of Owner and Region: 2007

[In thousands of acres (751,228 represents 751,228,000). As of January 1. Forest land is land at least 10 percent stocked by forest trees of any size, including land that formerly had such tree cover and that will be naturally or artificially regenerated. The minimum area for classification of forest land is 1 acre or strips of timber with a crown width of at least 120 feet wide. Timberland is forest land that is producing or is capable of producing crops of industrial wood and that is not withdrawn from timber utilization by statute or administrative regulation]

Region	Forest land, total	Timberland					
		Total	Federal			State, county, and municipal	Private ¹
			Total	National forest	Other		
Total	751,228	514,213	112,733	98,721	14,015	44,994	356,485
North	172,039	164,018	11,897	10,126	1,771	7,098	126,868
Northeast	84,796	79,803	2,971	2,401	570	1,838	67,523
North Central	87,243	84,215	8,926	7,725	1,201	5,260	59,345
South	214,644	204,030	17,164	12,225	4,940	2,015	178,986
Southeast	87,889	85,665	7,559	4,970	2,590	1,202	73,417
South Central	126,756	118,365	9,605	7,255	2,350	813	105,569
Rocky Mountains	150,661	70,968	48,612	45,386	252	119	19,169
Great Plains	5,757	5,287	1,294	1,056	199	45	3,795
Intermountain	144,905	65,681	47,318	44,330	53	74	15,374
Pacific Coast	213,883	75,197	35,060	30,984	349	621	31,462
Alaska	126,869	11,865	4,750	3,772	173	62	2,771
Pacific Northwest ²	52,449	43,489	20,403	17,937	133	452	19,383
Pacific Southwest ²	34,565	19,843	9,907	9,275	43	107	9,308

¹ Includes Indian lands. ² Includes Hawaii.

Table 853. Timber Volume, Growth, and Removal on Timberland by Species, Group, and Region: 2007

[932,096 represents 932,096,000,000]

Region	Net volume ¹						Timber growth ⁴ (mil. cu. ft.)			Timber removals ⁵ (mil. cu. ft.)		
	Growing stock ² (mil. cu. ft.)			Sawtimber ³ (bil. board ft.)								
	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods
Total	932,096	529,203	402,893	1,013	558	455	26,744	15,241	11,503	15,533	9,859	5,675
North	248,007	55,866	192,141	268	60	209	6,576	1,489	5,087	2,820	677	2,143
Northwest	137,585	34,252	103,333	146	37	109	3,249	836	2,412	1,169	353	815
North Central	110,422	21,614	88,808	122	23	99	3,327	652	2,675	1,651	324	1,328
South	288,522	118,471	170,051	325	123	202	13,272	7,632	5,640	9,696	6,317	3,379
Southeast	126,747	56,722	70,025	143	58	84	6,115	3,876	2,239	4,306	2,961	1,345
South Central	161,775	61,749	100,026	182	64	118	7,157	3,756	3,401	5,391	3,357	2,034
Rocky Mountains	137,263	124,809	12,454	159	144	15	1,761	1,577	184	543	521	22
Great Plains	4,539	1,641	2,898	7	2	5	72	27	45	41	25	16
Intermountain	132,724	123,168	9,556	153	142	11	1,689	1,550	139	502	496	6
Pacific Coast	258,304	230,057	28,247	261	232	29	5,135	4,543	593	2,474	2,344	131
Alaska	31,998	29,125	2,873	34	31	3	248	130	118	66	59	7
Pacific Northwest	158,896	146,006	12,890	159	146	13	3,340	3,039	301	1,939	1,818	121
Pacific Southwest ⁶	67,410	54,926	12,484	68	55	13	1,548	1,374	174	469	466	3

¹ As of January 1. ² Live trees of commercial species meeting specified standards of quality or vigor. Cull trees are excluded. Includes only trees 5.0-inches in diameter or larger at 4 1/2 feet above ground. ³ Live trees of commercial species containing at least one 12-foot sawlog or two noncontiguous 8-foot logs, and meeting regional specifications for freedom from defect. Softwood trees must be at least 9.0 inches in diameter and hardwood trees must be at least 11.0-inches in diameter at 4 1/2 feet above ground. ⁴ The net increase in the volume of trees during a specified year. Components include the increment in net volume of trees at the beginning of the specific year surviving to its end, plus the net volume of trees reaching the minimum size class during the year, minus the volume of trees that died during the year, and minus the net volume of trees that became cull trees during the year. ⁵ The net volume of trees removed from the inventory during a specified year by harvesting, cultural operations such as timber stand improvement, or land clearing. ⁶ Includes Hawaii.

Table 854. Timber Products—Production, Foreign Trade, and Consumption by Type of Product: 1990 to 2008

[In millions of cubic feet, roundwood equivalent (15,577 represents 15,577,000,000)]

Type of product	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008
Industrial roundwood:											
Domestic production	15,577	15,537	15,436	14,634	14,902	14,571	15,139	15,465	14,836	13,932	12,493
Softwoods	10,968	10,191	10,201	9,859	10,124	10,290	10,710	11,002	10,413	9,566	8,389
Hardwoods	4,609	5,347	5,235	4,775	4,778	4,282	4,428	4,463	4,423	4,366	4,104
Imports	3,091	3,907	4,529	4,605	4,505	5,096	5,805	5,802	5,292	4,147	3,065
Exports	2,307	2,282	1,996	1,759	1,769	1,535	1,604	1,646	1,596	1,481	1,517
Consumption	16,361	17,161	17,969	17,481	17,637	18,132	19,339	19,622	18,841	16,598	14,041
Softwoods	11,779	11,961	12,659	12,552	12,790	13,398	14,357	14,652	13,732	12,009	9,845
Hardwoods	4,582	5,200	5,310	4,929	4,847	4,734	4,983	4,970	4,799	4,589	4,197
Lumber:											
Domestic production	7,317	6,815	7,199	6,820	7,060	7,131	7,510	7,889	7,552	6,964	5,928
Imports	1,909	2,522	2,845	2,903	3,036	3,193	3,704	3,737	3,415	2,743	1,922
Exports	589	460	428	354	353	347	348	389	390	359	345
Consumption	8,637	8,877	9,616	9,369	9,744	9,977	10,866	11,237	10,577	9,347	7,506
Plywood and veneer:											
Domestic production	1,423	1,303	1,187	1,067	1,074	1,054	1,086	1,068	1,003	912	743
Imports	97	107	155	173	205	240	354	373	339	265	185
Exports	109	89	42	32	31	35	43	37	35	40	45
Consumption	1,410	1,321	1,300	1,208	1,249	1,259	1,397	1,403	1,308	1,136	882
Pulp products:											
Domestic production	5,313	6,079	5,881	5,691	5,708	5,557	5,692	5,679	5,470	5,176	4,926
Imports	1,038	1,248	1,459	1,458	1,180	1,579	1,669	1,570	1,440	1,071	918
Exports	646	905	842	801	810	643	680	708	681	526	556
Consumption	5,704	6,422	6,498	6,348	6,078	6,493	6,680	6,541	6,229	5,721	5,288
Logs:											
Imports	4	13	68	70	81	80	73	114	94	67	35
Exports	674	451	331	307	309	356	366	345	339	350	313
Pulpwood chips, exports	288	377	353	265	265	155	168	166	151	205	257
Fuelwood consumption	3,019	2,937	2,561	2,571	2,581	1,515	1,540	1,550	1,555	1,605	1,605

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2005*, Research Paper RP-FPL-637 and unpublished data. See also <<http://www.treesearch.fs.fed.us/pubs/28972>>.

Table 855. Selected Timber Products—Imports and Exports: 1990 to 2008

[In million board feet (13,063 represents 13,063,000,000) except as indicated]

Product	Unit	1990	1995	2000	2003	2004	2005	2006	2007	2008
IMPORTS ¹										
Lumber, total ²	Mil. bd. ft.	13,063	17,524	19,906	21,981	25,493	25,738	23,037	25,807	(NA)
From Canada	Percent	91	97	92	90	83	85	86	89	(NA)
Logs, total	Mil. bd. ft. ³	23	80	435	497	454	710	585	418	253
From Canada	Percent	84	70	96	98	97	85	85	91	(NA)
Paper and board ⁴	1,000 tons	12,195	14,292	17,555	20,034	21,146	20,438	20,293	18,634	16,872
Woodpulp	1,000 tons	4,893	5,969	7,227	6,691	6,726	6,762	6,939	6,793	6,272
Plywood	Mil. sq. ft. ⁵	1,687	1,951	2,917	4,489	5,896	6,325	6,324	4,969	3,722
EXPORTS										
Lumber, total ²	Mil. bd. ft.	4,623	2,958	2,700	2,193	3,842	2,682	2,651	2,613	(NA)
To: Canada	Percent	14	22	26	29	12	28	28	27	(NA)
Japan	Percent	28	33	12	7	11	3	4	4	(NA)
Europe	Percent	15	17	19	16	9	15	16	16	(NA)
Logs, total	Mil. bd. ft. ³	4,213	2,820	2,068	2,224	2,287	2,157	2,120	2,189	2,240
To: Canada	Percent	9	25	41	54	49	54	52	43	(NA)
Japan	Percent	62	61	45	29	28	27	26	26	(NA)
China	Percent	9	1	—	2	3	4	5	7	(NA)
Paper and board ⁴	1,000 tons	5,163	7,621	10,003	11,868	12,566	13,434	13,349	14,582	12,907
Woodpulp	1,000 tons	5,905	8,261	6,409	5,847	6,225	6,413	6,606	6,831	7,790
Plywood	Mil. sq. ft. ⁵	1,766	1,517	754	640	783	568	749	501	621

— Represents zero. NA Not available. ¹ Customs value of imports; see text, Section 28. ² Includes railroad ties. ³ Log scale. ⁴ Includes paper and board products. Excludes hardboard. ⁵ 3/8 inch basis.

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2005*, Research Paper RP-FPL-637 and unpublished data. See also <<http://www.treearch.fs.fed.us/pubs/28972>>.

Table 856. Lumber Consumption by Species Group and End Use: 1995 to 2008

[In billion board feet (59.3 represents 59,300,000,000), except per capita in board feet. Per capita consumption based on estimated resident population as of July 1]

Item	1995	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Consumption, total	59.3	68.3	66.1	64.6	67.5	67.0	73.1	75.6	71.3	62.7	49.7
Per capita	225	250	240	227	235	230	249	255	238	208	163
SPECIES GROUP											
Softwoods	47.6	54.5	54.0	53.7	56.4	56.5	62.0	64.4	60.4	52.6	40.7
Hardwoods	11.7	13.8	12.2	11.0	11.1	10.5	11.1	11.2	10.9	10.2	9.0
END USE											
New housing	18.1	22.6	21.1	21.6	22.5	24.0	25.4	27.7	23.8	17.5	11.2
Residential upkeep and improvements	15.0	14.7	15.3	15.3	16.4	16.2	17.6	18.3	18.6	17.8	16.1
New nonresidential construction ¹	4.7	5.4	5.5	5.3	4.8	4.4	4.5	4.7	5.2	4.9	5.2
Manufacturing	7.7	8.2	7.9	6.9	6.4	5.9	5.7	5.6	5.3	4.9	4.2
Shipping	6.9	7.4	7.6	6.9	7.1	7.0	7.7	8.1	8.6	7.9	6.8
Other ²	7.2	8.5	8.7	8.9	9.9	9.8	13.2	11.3	9.8	10.0	6.0

¹ In addition to new construction, includes railroad ties laid as replacements in existing track and lumber used by railroads for railcar repair. ² Includes upkeep and improvement of nonresidential buildings and structures; made-at-home projects, such as furniture, boats, and picnic tables; made-on-the-job items such as advertising and display structures; and miscellaneous products and uses.

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2005*, Research Paper RP-FPL-637 and unpublished data. See also <<http://www.treesearch.fs.fed.us/pubs/28972>>.

Table 857. Selected Species—Stumpage Prices in Current and Constant (1996) Dollars: 2000 to 2008

[In dollars per 1,000 board feet. Stumpage prices are based on sales of sawtimber from national forests]

Species	Current dollars				Constant (1996) dollars ¹			
	2000	2005	2007	2008	2000	2005	2007	2008
Softwoods:								
Douglas fir ²	433	321	103	(NA)	397	260	76	(NA)
Southern pine ³	258	193	176	173	237	157	130	133
Sugar pine ⁴	187	114	81	130	172	93	60	100
Ponderosa pine ^{4, 5}	155	103	61	162	142	84	45	124
Western hemlock ⁶	46	70	26	(NA)	42	57	15	(NA)
Hardwoods:								
All eastern hardwoods ⁷	341	415	277	(NA)	313	337	277	(NA)
Oak, white, red, and black ⁷	258	329	220	(NA)	237	267	220	(NA)
Maple, sugar ⁸	314	648	362	(NA)	288	526	267	(NA)

NA Not available. ¹ Deflated by the producer price index, all commodities. ² Western Washington and western Oregon. ³ Southern region. ⁴ Pacific Southwest region (formerly California region). ⁵ Includes Jeffrey pine. ⁶ Pacific Northwest region. ⁷ Eastern and Southern regions. ⁸ Eastern region.

Source: U.S. Forest Service, "RPA Assessment Tables," 2007; <<http://www.fs.fed.us/research/rpa/>>.

Table 858. Selected Timber Products—Producer Price Indexes: 1990 to 2008

[1982 = 100. For information about producer prices, see text, Section 14]

Product	1990	1995	2000	2003	2004	2005	2006	2007	2008
Lumber and wood products ¹	129.7	178.1	178.2	177.4	195.6	196.5	194.4	192.4	191.3
Lumber	124.6	173.4	178.8	174.3	203.6	198.6	188.6	174.7	163.4
Softwood lumber	123.8	178.5	178.6	170.8	209.8	203.6	189.4	170.5	156.0
Hardwood lumber	131.0	167.0	185.9	188.8	199.3	196.6	195.3	192.4	184.7
Millwork ¹	130.4	163.8	176.4	181.8	191.9	197.2	201.8	201.4	204.8
General millwork	132.0	165.4	178.0	185.4	193.1	196.1	201.3	203.9	207.6
Prefabricated structural members	122.3	163.5	175.1	171.0	193.7	206.9	206.6	189.5	188.9
Plywood	114.2	165.3	157.6	167.0	198.5	186.8	172.7	176.1	174.5
Softwood plywood	119.6	188.1	173.3	195.9	250.9	223.5	190.5	197.8	192.5
Hardwood plywood and related products	102.7	122.2	130.2	129.0	134.4	138.1	(NA)	(NA)	(NA)
Other wood products ¹	114.7	143.7	130.5	129.9	134.3	139.2	142.8	142.1	144.7
Boxes	119.1	145.0	155.2	157.6	163.1	164.9	167.2	170.3	174.5
Pulp, paper, and allied products ¹	141.2	172.2	183.7	190.0	195.7	202.6	209.8	216.9	226.7
Pulp, paper, and prod., excl. bldg. paper ¹	132.9	163.4	161.4	157.1	162.1	169.8	178.4	186.7	199.0
Woodpulp	151.3	183.2	145.3	121.4	132.2	138.0	144.1	161.5	171.7
Wastepaper	138.9	371.1	282.5	197.3	231.4	230.9	234.8	368.7	368.5
Paper ¹	128.8	159.0	149.8	146.1	149.4	159.6	167.4	169.3	184.4
Writing and printing papers	129.1	158.4	146.6	144.7	146.0	156.1	162.8	166.7	181.7
Newsprint	119.6	161.8	127.5	112.1	124.5	138.5	151.8	131.6	147.6
Paperboard	135.7	183.1	176.7	162.7	170.2	175.5	192.0	201.7	217.8
Converted paper and paperboard products ¹	135.2	157.0	162.7	165.3	168.3	176.1	184.1	187.8	199.1
Office supplies and accessories	121.4	134.9	133.8	137.4	137.6	143.1	146.2	151.0	158.4
Building paper & building board mill prods.	112.2	144.9	138.8	159.9	192.4	184.9	173.0	155.2	164.1

 NA Not available. ¹ Includes other products not shown separately.

 Source: U.S. Bureau of Labor Statistics, *Producer Price Indexes*, monthly.

Table 859. Pulpwood Consumption, Woodpulp Production, and Paper and Board Production and Consumption: 1995 to 2008

[Revised to match data from American Forest and Paper Association and American Pulpwood Association]

Item	Unit	1995	2000	2002	2003	2004	2005	2006	2007	2008
Pulpwood consumption ¹ . .	1,000 cords ² . .	97,052	95,904	90,500	85,436	87,110	88,595	86,284	84,076	80,461
Woodpulp production ³ . . .	1,000 tons	67,103	62,758	58,069	53,197	54,301	60,267	60,568	60,568	57,964
Paper and board ⁴ :										
Production	1,000 tons	89,509	94,491	89,636	80,712	83,612	91,031	91,800	91,570	87,632
Consumption or new supply ⁵	1,000 tons	96,126	103,147	97,227	94,422	95,068	101,864	102,948	99,825	95,533
Per capita	Pounds	731	731	676	629	627	687	688	661	625

¹ Includes changes in stocks. ² One cord equals 128 cubic feet. ³ Excludes defibrated and exploded woodpulp used for hard pressed board. ⁴ Excludes hardboard. ⁵ Production plus imports, minus exports (excludes products); changes in inventories not taken into account.

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption and Price Statistics*, 1965–2005, Research Paper RP-FPL-637 and unpublished data. See also <<http://www.treesearch.fs.fed.us/pubs/28972>>.

Table 860. Paper and Paperboard—Production and New Supply: 1990 to 2007

[In millions of short tons (80.45 represents 80,450,000). 1 short ton = 2,000 lbs.]

Item	1990	1995	2000	2002	2003	2004	2005	2006	2007
Production, total	80.45	91.33	96.05	91.11	89.81	93.41	92.61	93.72	92.96
Paper, total	39.36	42.87	45.52	41.56	40.37	41.82	41.40	41.81	41.27
Paperboard, total	39.32	46.64	48.97	48.13	48.02	50.08	49.71	50.41	50.40
Unbleached kraft	20.36	22.70	21.80	21.09	21.73	22.67	22.58	23.41	23.54
Semichemical	5.64	5.66	5.95	5.84	6.10	6.53	6.41	6.22	6.16
Bleached kraft	4.40	5.30	5.44	5.30	5.36	5.65	5.66	5.71	5.81
Recycled	8.92	12.98	15.79	15.91	14.83	15.24	15.05	15.07	14.89
Wet machine board	0.15	0.15	0.06	0.05	0.05	0.05	0.05	0.05	0.03
Building paper	0.81	0.81	0.64	0.55	0.55	0.58	0.57	0.56	0.54
Insulating board	0.86	0.86	0.86	0.83	0.83	0.88	0.88	0.88	0.71
New supply, all grades, excluding products	87.68	98.16	105.02	100.57	99.76	103.74	101.81	101.69	98.85
Paper, total	49.49	52.77	57.13	53.66	53.22	54.88	53.69	52.97	50.88
Newsprint	13.41	12.76	12.92	11.18	11.05	10.84	10.12	9.49	8.35
Printing/writing papers	25.46	29.55	32.99	31.09	31.03	32.68	31.99	31.78	31.05
Packaging and ind. conv. papers	4.72	4.24	4.27	4.20	3.96	4.14	4.05	4.10	4.07
Tissue	5.90	6.22	6.95	7.20	7.18	7.22	7.53	7.60	7.42
Paperboard, total	36.30	43.45	46.02	45.29	44.95	47.20	46.51	47.11	46.61
Construction and other	1.90	1.95	1.88	1.62	1.59	1.66	1.61	1.62	1.36

Source: American Forest and Paper Association, Washington, DC, *Monthly Statistical Summary of Paper, Paperboard and Woodpulp*.

Table 861. **Fishery Products—Domestic Catch, Imports, and Disposition: 1990 to 2007**

[Live weight, in millions of pounds (16,349 represents 16,349,000,000). For data on commercial catch for selected countries, see Table 1337, Section 30]

Item	1990	1995	2000	2002	2003	2004	2005	2006	2007
Total	16,349	16,484	17,340	19,028	19,850	20,412	20,612	20,960	20,484
For human food	12,662	13,584	14,738	16,007	17,187	17,648	18,147	18,594	18,228
For industrial use	3,687	2,900	2,599	3,021	2,663	2,765	2,382	2,366	2,255
Domestic catch	9,404	9,788	9,069	9,397	9,507	9,683	9,707	9,483	9,232
For human food	7,041	7,667	6,912	7,205	7,521	7,794	7,997	7,842	7,466
For industrial use	2,363	2,121	2,157	2,192	1,986	1,889	1,710	1,641	1,766
Imports ¹	6,945	6,696	8,271	9,631	10,343	10,729	10,905	11,477	11,252
For human food	5,621	5,917	7,828	8,802	9,666	9,854	10,158	10,752	10,763
For industrial use ²	1,324	779	443	829	677	875	747	725	489
Exports ¹	4,627	5,166	5,758	6,979	6,756	8,203	8,420	7,710	7,057
For human food	3,832	4,175	4,587	5,587	5,392	6,462	6,385	6,250	5,761
For industrial use ²	795	991	1,171	1,392	1,364	1,741	2,035	1,459	1,297
Disposition of domestic catch	9,404	9,788	9,069	9,397	9,507	9,683	9,707	9,483	9,232
Fresh and frozen	6,501	7,099	6,657	6,826	7,266	7,488	7,776	7,627	7,387
Canned	751	769	530	652	498	552	563	573	501
Cured	126	90	119	117	119	137	160	117	121
Reduced to meal, oil, etc.	2,026	1,830	1,763	1,802	1,624	1,506	1,208	1,166	1,223

¹ Excludes imports of edible fishery products consumed in Puerto Rico; includes landings of tuna caught by foreign vessels in American Samoa. ² Fish meal and sea herring.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual (published July 2008). See also <<http://www.st.nmfs.noaa.gov/st1/fus/fus07/index.html>>.

Table 862. Fisheries—Quantity and Value of Domestic Catch: 1980 to 2007

[In millions of pounds (6,482 represents 6,482,000,000), except as noted]

Year	Quantity (mil. lb. ¹)			Value (mil. dol.)	Average price per lb. (cents)	Year	Quantity (mil. lb. ¹)			Value (mil. dol.)	Average price per lb. (cents)
	Total	For human food	For industrial products ²				Total	For human food	For industrial products ²		
1980 . . .	6,482	3,654	2,828	2,237	34.5	2000 . . .	9,069	6,912	2,157	3,550	39.1
1985 . . .	6,258	3,294	2,964	2,326	37.2	2001 . . .	9,489	7,311	2,178	3,218	33.9
1990 . . .	9,404	7,041	2,363	3,522	37.5	2002 . . .	9,397	7,205	2,192	3,092	32.9
1995 . . .	9,788	7,667	2,121	3,770	38.5	2003 . . .	9,507	7,521	1,986	3,347	35.2
1996 . . .	9,565	7,474	2,091	3,487	36.5	2004 . . .	9,683	7,794	1,889	3,756	38.8
1997 . . .	9,842	7,244	2,598	3,448	35.0	2005 . . .	9,707	7,997	1,710	3,942	40.6
1998 . . .	9,194	7,173	2,021	3,126	34.0	2006 . . .	9,483	7,842	1,641	4,024	42.4
1999 . . .	9,339	6,832	2,507	3,467	37.1	2007 . . .	9,232	7,466	1,766	4,089	44.3

¹ Live weight. ² Meal, oil, fish solubles, homogenized condensed fish, shell products, bait, and animal food.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual (published July 2008). See also <<http://www.st.nmfs.noaa.gov/st1/fus/fus07/index.html>>.

Table 863. Domestic Fish and Shellfish Catch and Value by Major Species Caught: 2000 to 2007

[In thousands (9,068,985 represents 9,068,985,000)]

Species	Quantity (1,000 lb.)				Value (\$1,000)			
	2000	2005	2006	2007	2000	2005	2006	2007
Total ¹	9,068,985	9,707,275	9,482,996	9,231,833	3,549,481	3,942,376	4,024,445	4,089,012
Fish, total ¹	7,689,661	8,462,473	8,287,267	8,210,777	1,594,815	1,836,448	1,930,725	2,076,083
Cod: Atlantic	25,060	13,920	12,618	16,948	26,384	20,828	20,484	27,050
Pacific	530,505	548,746	518,733	488,293	142,330	150,738	197,243	224,635
Flounder	412,723	419,430	445,913	485,830	109,910	135,176	151,589	153,476
Halibut	75,190	76,263	71,429	70,107	143,826	177,593	202,099	226,732
Herring, Atlantic	160,269	215,565	207,915	162,657	9,972	20,467	21,907	19,486
Herring, Pacific	74,835	87,295	81,935	69,304	12,043	13,799	8,042	15,315
Menhaden	1,760,498	1,243,723	1,306,761	1,481,672	112,403	62,465	65,597	125,285
Pollock, Alaska	2,606,802	3,411,307	3,400,812	3,066,152	160,525	306,972	329,879	297,417
Salmon	628,638	899,457	663,654	884,983	270,213	330,699	310,900	381,110
Tuna	50,779	44,316	49,958	50,785	95,176	85,922	86,996	93,132
Whiting (Atlantic, silver)	26,855	16,561	12,350	14,044	11,370	8,284	6,762	7,906
Whiting (Pacific, hake)	452,718	569,381	570,489	455,295	18,809	29,145	35,234	34,228
Shellfish, total ¹	1,379,324	1,244,802	1,195,729	1,021,056	1,954,666	2,105,928	2,093,720	2,012,929
Clams	118,482	105,640	110,912	116,100	153,973	173,655	188,601	187,703
Crabs	299,006	299,137	339,944	284,797	405,006	415,057	413,744	453,966
Lobsters: American	83,180	88,032	92,615	75,192	301,300	416,597	395,175	349,056
Oysters	41,146	33,963	34,409	35,142	90,667	110,679	121,493	126,903
Scallops, sea	32,747	56,702	59,005	58,423	164,609	433,512	384,809	385,037
Shrimp	332,486	260,884	320,176	231,553	690,453	406,344	440,651	369,788
Squid, Pacific	259,508	126,107	113,266	109,170	27,077	31,601	27,188	29,214

¹ Includes other landings not shown separately.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual (published July 2008). See also <<http://www.st.nmfs.noaa.gov/st1/fus/fus07/index.html>>.

Table 864. U.S. Private Aquaculture—Trout and Catfish Production and Value: 1990 to 2008

[67.8 represents 67,800,000. Data are for calendar year and foodsize fish (those over 12 inches long)]

Item	Unit	1990	1995	2000	2004	2005	2006	2007	2008
TROUT FOODSIZE									
Number sold	Mil.	67.8	60.2	58.4	49.6	55.5	52.5	58.7	40.4
Total weight	Mil. lb.	56.8	55.6	59.0	57.6	59.7	65.3	66.9	52.4
Total value of sales	Mil. dol.	64.6	60.8	63.3	59.4	62.7	72.7	79.5	72.4
Avg. price received by processors.	Dol./lb.	1.14	1.09	1.07	1.03	1.05	1.11	1.19	1.38
Percent sold to processors	Percent	58	68	70	73	66	69	64	58
CATFISH FOODSIZE									
Number sold	Mil.	272.9	321.8	420.1	389.3	405.4	370.9	365.8	304.0
Total weight	Mil. lb.	392.4	481.5	633.8	682.2	638.9	587.0	563.9	514.9
Total value of sales	Mil. dol.	305.1	378.1	468.8	450.9	450.2	455.1	423.7	389.3
Avg. price received by processors.	Dol./lb.	0.78	0.79	0.74	0.66	0.70	0.78	0.75	0.76
Fish sold to processors.	Mil. lb.	360.4	446.9	593.6	630.5	600.7	566.1	496.2	509.6
Avg. price paid by processors	Cents/lb.	75.8	78.6	75.1	69.7	72.5	79.5	76.7	77.6
Processor sales.	Mil. lb.	183.1	227.0	297.2	306.8	300.0	284.0	252.5	251.2
Avg. price received by processors.	Dol./lb.	2.24	2.40	2.36	2.23	2.29	2.46	2.44	2.44
Inventory (Jan. 1)	Mil. lb.	9.4	10.9	13.6	15.2	13.7	18.2	15.1	15.5

Source: U.S. Department of Agriculture, National Agricultural Statistics Service, *Trout Production*, published February 2009; *Catfish Production*, published January 2009; and *Catfish Processing*, published February 2009. See also <<http://usda.mannlib.cornell.edu/reports/nassr/other/>>. Also in *Agricultural Statistics*, annual.

Table 865. Supply of Selected Fishery Items: 1990 to 2007

[In millions of pounds (734 represents 734,000,000). Totals available for U.S. consumption are supply minus exports plus imports. Round weight is the complete or full weight as caught]

Species	Unit	1990	1995	2000	2002	2003	2004	2005	2006	2007
Shrimp	Heads-off weight . . .	734	832	1,173	1,430	1,608	1,670	1,559	1,879	1,712
Tuna, canned	Canned weight	856	875	980	922	982	874	895	858	812
Snow crab	Round weight	37	42	122	172	198	168	171	187	208
Clams	Meat weight	152	144	133	144	143	132	120	125	128
Salmon, canned	Canned weight	148	147	95	135	111	98	123	56	91
American lobster	Round weight	95	94	125	135	128	138	144	150	122
Spiny lobster	Round weight	89	89	99	87	93	93	83	77	78
Scallops	Meat weight	74	62	78	91	94	94	86	94	92
Sardines, canned	Canned weight	61	44	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Oysters	Meat weight	56	63	71	62	69	53	47	49	48
King crab	Round weight	19	21	41	47	47	52	78	110	134
Crab meat, canned	Canned weight	9	12	29	44	47	56	59	58	66

NA Not available.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual (published July 2008). See also <<http://www.st.nmfs.noaa.gov/st1/fus/fus07/index.html>>.

Table 866. Canned, Fresh, and Frozen Fishery Products—Production and Value: 1990 to 2007

[In millions of pounds (1,178 represents 1,178,000,000). Fresh fishery products exclude Alaska and Hawaii. Canned fishery products data are for natural pack only]

Product	Production (mil. lb.)					Value (mil. dol.)				
	1990	2000	2005	2006	2007	1990	2000	2005	2006	2007
Canned, total ¹	1,178	1,747	1,082	1,081	1,099	1,562	1,626	1,211	1,330	1,352
Tuna	581	671	446	445	436	902	856	628	705	702
Salmon	196	171	219	152	183	366	288	301	250	283
Clam products	110	127	123	112	100	76	120	127	123	109
Sardines, Maine	13	(Z)	(NA)	(NA)	(NA)	17	(Z)	(NA)	(NA)	(NA)
Shrimp	1	2	1	(Z)	(Z)	3	11	3	1	1
Crabs	1	(Z)	(Z)	(Z)	(Z)	4	(Z)	(Z)	(Z)	(Z)
Oysters ²	1	(Z)	(Z)	(Z)	(Z)	1	1	(Z)	(Z)	(Z)
Fish fillets and steaks ³	441	368	615	631	622	843	823	1,136	1,300	1,287
Cod	65	56	47	42	32	132	167	116	123	102
Flounder	54	27	20	18	20	154	71	65	73	68
Haddock	7	6	24	16	10	24	24	89	70	57
Ocean perch, Atlantic	1	(Z)	1	1	1	1	1	4	3	3
Rockfish	33	11	3	2	3	53	25	8	5	6
Pollock, Atlantic	12	2	3	2	2	21	4	6	4	5
Pollock, Alaska	164	160	383	398	396	174	178	404	488	485
Other	105	106	134	152	158	284	353	444	534	561

NA Not available. Z Less than 500,000 pounds or \$500,000. ¹ Includes other products not shown separately.
² Includes oyster specialties. ³ Fresh and frozen.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual (published July 2008). See also <<http://www.st.nmfs.noaa.gov/st1/fus/fus07/index.html>>.

Table 867. Mineral Industries—Employment, Hours, and Earnings: 1990 to 2008

[In thousands (680 represents 680,000), except as noted. Based on the Current Employment Statistics Program, see Appendix III]

Industry and item	Unit	1990	1995	2000	2004	2005	2006	2007	2008
All mining: ¹									
All employees.	1,000	680	558	520	523	562	620	664	717
Production workers	1,000	469	391	383	384	419	466	497	531
Avg. weekly hours	Number . . .	46.1	46.8	45.5	45.4	46.4	46.3	46.2	45.3
Avg. weekly earnings . . .	Dollars . . .	630	711	771	837	884	938	989	1,043
Coal mining:									
All employees.	1,000	136	97	72	71	74	78	77	81
Production workers	1,000	110	78	59	59	61	67	68	71
Avg. weekly hours	Number . . .	44.7	45.7	45.6	47.7	48.5	49.5	47.9	49.0
Avg. weekly earnings . . .	Dollars . . .	822	929	945	1,029	1,071	1,093	1,052	1,140
Oil and gas extraction:									
All employees.	1,000	190	152	125	123	126	135	146	162
Production workers	1,000	84	73	67	70	72	78	83	90
Avg. weekly hours	Number . . .	44.4	43.6	41.3	43.5	44.3	43.0	41.9	41.1
Avg. weekly earnings . . .	Dollars . . .	591	677	802	808	856	921	1,015	1,120
Metal ore mining:									
All employees.	1,000	53	48	38	28	29	32	36	40
Production workers	1,000	43	39	29	20	22	25	28	32
Avg. weekly hours	Number . . .	42.5	43.4	43.4	45.2	44.2	43.5	45.9	46.1
Avg. weekly earnings . . .	Dollars . . .	646	788	871	1,035	1,001	974	1,077	1,195
Nonmetallic minerals mining, and quarrying:									
All employees.	1,000	113	108	115	107	110	110	110	107
Production workers	1,000	85	81	87	81	84	82	82	81
Avg. weekly hours	Number . . .	45.0	46.3	46.1	44.6	45.9	46.1	46.3	43.9
Avg. weekly earnings . . .	Dollars . . .	532	632	722	791	830	863	872	840

¹ Includes other industries not shown separately.

Source: U.S. Bureau of Labor Statistics, Current Employment Statistics, "Employment, Hours, and Earnings—National"; <<http://www.bls.gov/ces/data.htm>> (accessed 10 April 2009).

Table 868. Mine Safety: 2000 to 2008

[Reported injury rates per 200,000 employee hours]

Item	All mines			Coal			Metal and nonmetal		
	2000	2007	2008 ¹	2000	2007	2008 ¹	2000	2007	2008 ¹
Number of mines	14,413	14,786	14,880	2,124	2,030	2,122	12,289	12,841	12,758
Number of miners	348,548	376,386	392,012	108,098	122,936	133,493	240,450	255,186	258,519
Fatalities	85	64	52	38	34	30	47	33	22
Fatal injury rate	0.03	0.02	0.02	0.04	0.03	0.02	0.02	0.01	0.01
All injury rate	5.13	3.43	3.24	6.64	4.21	3.88	4.45	3.02	2.86
Coal production (mil. tons)	1,078	1,147	1,172	1,078	1,147	1,172	(X)	(X)	(X)
Total mining area inspection hours/mine	57	44	56	178	169	227	28	19	21
Citations and orders	120,269	144,735	174,522	58,394	84,544	107,441	61,875	60,191	67,081
S&S ² citations and orders (percent) . . .	36	31	30	42	37	35	31	22	21
Amount assessed ³ (mil. dol.)	24.7	74.5	194.3	12.0	53.5	152.7	12.7	21.0	41.6

X Not applicable. ¹ Preliminary. ² A violation that “significantly and substantially” contributes to the cause and effect of a coal or other mine safety or health hazard. ³ Government penalties or fines.

Source: U.S. Mine Safety and Health Administration, Office of Program Education and Outreach Services, “Mine Safety and Health At a Glance” (published 27 March 2009); <<http://www.msha.gov/MSHAINFO/FactSheets/MSHAFCT10.HTM>>.

Table 869. Mining and Primary Metal Production Indexes: 1990 to 2008

[Index 2002 = 100]

Industry group	NAICS code ¹	1990	1995	2000	2003	2004	2005	2006	2007	2008
Mining²	21	107.8	105.3	104.2	100.2	99.6	98.3	101.5	102.1	104.2
Oil and gas extraction ²	211	107.2	104.0	101.0	99.0	96.0	92.0	93.5	95.0	97.5
Crude oil and natural gas	211111	109.2	104.8	100.9	99.7	95.9	92.1	93.5	95.0	97.7
Coal mining	2121	98.3	96.8	99.2	97.5	100.8	102.5	105.2	103.6	105.9
Metal ore mining	2122	113.1	123.8	120.5	95.4	98.2	106.1	109.1	106.0	109.6
Iron ore	21221	109.8	121.8	122.2	94.1	106.0	105.2	102.3	100.4	102.1
Gold ore and silver ore	21222	99.9	106.9	119.0	92.9	86.8	86.1	84.5	80.4	77.4
Copper, nickel, lead, and zinc	21223	122.2	140.0	122.9	98.5	100.6	99.2	103.4	102.4	112.1
Oil and gas drilling	213111	102.3	89.5	114.4	116.2	126.9	142.5	164.4	170.3	177.8
Primary metal manufacturing²	331	96.7	106.0	111.4	99.1	110.0	108.0	112.6	110.0	102.6
Iron and steel	3311	95.1	105.6	110.8	101.2	118.2	110.1	119.3	115.8	105.8
Aluminum	3313	103.3	99.1	104.7	95.8	96.4	102.7	105.1	102.5	100.1
Nonferrous metals ²	3314	111.4	123.9	115.5	100.3	103.7	103.4	99.8	101.6	98.0
Copper	33142	142.5	263.1	133.8	86.9	90.7	81.8	68.0	72.2	65.1

¹ Based on the 2002 North American Industry Classification System (NAICS). ² Includes other industries not shown separately.

Source: Board of Governors of the Federal Reserve System, *The Statistical Supplement to the Federal Reserve Bulletin*, monthly; and *Industrial Production and Capacity Utilization*, Statistical Release G.17, monthly.

Table 870. Mineral Production: 1990 to 2008

[1,029.1 represents 1,029,100,000. Data represent production as measured by mine shipments, mine sales, or marketable production; see Appendix IV]

Minerals and Metals	Unit	1990	2000	2006	2007	2008, est.
FUEL MINERALS						
Coal, total ¹	Mil. sh. tons	1,029.1	1,073.6	1,162.7	1,146.6	1,171.5
Bituminous	Mil. sh. tons	693.2	574.3	561.6	542.8	559.4
Subbituminous	Mil. sh. tons	244.3	409.2	515.3	523.7	534.7
Lignite	Mil. sh. tons	88.1	85.6	84.2	78.6	75.7
Anthracite ¹	Mil. sh. tons	3.5	4.6	1.5	1.6	1.7
Natural gas (marketed production)	Tril. cu. ft.	18.59	20.20	19.41	20.02	21.46
Petroleum (crude)	Mil. bbl. ²	2,685	2,131	1,862	1,848	1,814
Uranium (recoverable content)	Mil. lb.	8.9	4.0	4.1	4.5	3.9
NONFUEL MINERALS						
Asbestos (sales)	1,000 metric tons	(D)	5	—	—	—
Barite, primary, sold/used by producers	1,000 metric tons	430	392	589	455	615
Boron minerals, sold or used by producers	1,000 metric tons	1,090	1,070	(D)	(D)	(D)
Bromine, sold or used by producers	1,000 metric tons	177	228	243	(D)	(D)
Cement:						
Portland ³	Mil. metric tons	67	84	93	90	85
Masonry ⁴	Mil. metric tons	3	4	5	4	3
Clays	1,000 metric tons	42,900	40,800	41,200	36,800	33,200
Diatomite	1,000 metric tons	631	677	799	687	653
Feldspar ⁴	1,000 metric tons	630	790	760	730	600
Fluorspar, finished shipments	1,000 metric tons	64	—	—	—	(NA)
Garnet (industrial)	1,000 metric tons	47	60	34	61	61
Gypsum, crude	Mil. metric tons	15	20	21	18	13
Helium ⁵	Mil. cu. meters	65	98	79	77	78
Lime, sold or used by producers	Mil. metric tons	16	20	21	20	20
Mica, scrap & flake, sold/used by producers	1,000 metric tons	109	101	110	97	99
Peat, sales by producers	1,000 metric tons	721	847	734	694	700
Perlite, processed, sold or used	1,000 metric tons	576	672	454	409	449
Phosphate rock (marketable)	Mil. metric tons	46	39	30	30	31
Potash (K ₂ O equivalent) sales	1,000 metric tons	1,710	1,300	1,100	1,100	1,200
Pumice & pumicite, producer sales	1,000 metric tons	443	1,050	1,540	1,270	1,140
Salt, common, sold/used by producers	Mil. metric tons	37	46	44	45	46
Sand & gravel, sold/used by producer	Mil. metric tons	855	1,148	1,349	1,260	1,070
Construction	Mil. metric tons	829	1,120	1,320	1,230	1,040
Industrial	Mil. metric tons	26	28	29	30	30
Sodium carbonate (natural) (soda ash)	1,000 metric tons	9,100	10,200	11,000	11,100	11,300
Sodium sulfate (natural)	1,000 metric tons	349	(NA)	290	312	320
Stone ⁶	Mil. metric tons	2,230	2,810	3,100	2,990	2,790
Crushed and broken	Mil. metric tons	1,110	1,560	1,770	1,600	1,340
Dimension ⁷	1,000 metric tons	1,120	1,250	1,330	1,390	1,450
Sulfur: Total shipments	1,000 metric tons	11,500	10,700	8,960	9,120	9,200
Sulfur: Frasch mines (shipments)	1,000 metric tons	3,680	900	—	—	—
Talc and pyrophyllite, crude	1,000 metric tons	1,270	851	895	769	645
Vermiculite concentrate	1,000 metric tons	209	150	100	100	100
METALS						
Antimony ore and concentrate	Metric tons	(D)	(D)	—	(D)	(D)
Aluminum	1,000 metric tons	4,048	3,668	2,284	2,554	2,640
Bauxite (dried)	1,000 metric tons	(D)	(NA)	(NA)	(NA)	(NA)
Copper (recoverable content)	1,000 metric tons	1,590	1,450	1,200	1,170	1,310
Gold (recoverable content)	Metric tons	294	353	252	238	230
Iron ore (gross weight) ⁸	Mil. metric tons	57	61	53	51	56
Lead (recoverable content)	1,000 metric tons	484	449	419	434	420
Magnesium metal	1,000 metric tons	139	(D)	(D)	(D)	(D)
Manganiferous ore (gross weight) ⁹	1,000 metric ton	(D)	—	(NA)	(NA)	(NA)
Mercury ¹⁰	Metric tons	(NA)	(NA)	(NA)	(NA)	(NA)
Molybdenum (concentrate)	1,000 metric tons	62	41	60	57	61
Nickel ore (recovered Ni content)	1,000 metric tons	330	—	—	—	—
Palladium metal	Kilograms	5,930	10,300	14,400	12,800	12,400
Platinum metal	Kilograms	1,810	3,110	4,290	3,860	3,700
Silicon (Si content)	1,000 metric tons	418	367	146	155	166
Silver (recoverable content)	Metric tons	2,120	1,860	1,140	1,260	1,120
Titanium concentrate (TiO ₂ content)	1,000 metric tons	(D)	300	300	300	200
Tungsten ore and concentrate ¹²	Metric tons	(D)	—	—	(D)	(D)
Zinc (recoverable content)	1,000 metric tons	508	796	699	769	794

— Represents or rounds to zero. D Withheld to avoid disclosing individual company data. NA Not available. ¹ Beginning 2006, includes a small amount of refuse recovery. ² 42 gal. bbl. ³ Excludes Puerto Rico. ⁴ Beginning 2000, includes apilite. ⁵ Refined. ⁶ Excludes abrasive stone, bituminous limestone and sandstone, and ground soapstone, all included elsewhere in table; includes calcareous marl and slate. ⁷ Includes Puerto Rico in 1990. ⁸ Represents shipments; includes byproduct ores. ⁹ 5- to 35-percent manganiferous ore. ¹⁰ Mercury recovered as a byproduct of gold ores only, 1990. ¹¹ Ferrosilicon only; silicon metal withheld to avoid disclosing proprietary data. ¹² Content of ore and concentrate.

Source: Nonfuels, 1990 only, U.S. Bureau of Mines, thereafter, U.S. Geological Survey, *Minerals Yearbook and Mineral Commodities Summaries*, annual. See also <<http://minerals.er.usgs.gov/minerals/pubs/mcs/>>. Fuels, U.S. Energy Information Administration, *Annual Energy Review*, 2008. See also <<http://www.eia.doe.gov/emeu/aer/contents.html>>.

Table 871. Nonfuel Mineral Commodities—Summary: 2008

[2,640 represents 2,640,000. Preliminary estimates. Average price in dollars per metric tons except as noted]

Mineral	Mineral disposition					Average price per unit (dollars)	Employment (number)
	Unit	Production	Exports	Net import reliance ¹ (percent)	Consumption, apparent		
Aluminum	1,000 metric tons	2,640	3,800	(²)	3,700	³ 1,21	55,000
Antimony (contained)	Metric tons	4	2,050	86	23,800	³ 2.84	10
Asbestos	1,000 metric tons	—	—	100	2	(NA)	—
Barite	1,000 metric tons	615	52	79	2,960	⁵ 49.00	350
Bauxite and alumina (metal equivalent)	1,000 metric tons	(NA)	680	100	3,600	⁵ 31.00	(NA)
Beryllium (contained)	Metric tons	155	130	(²)	141	³ 162	(NA)
Bismuth (contained)	Metric tons	—	566	97	3,000	³ 12.13	(NA)
Boron (B ₂ O ₃ content)	1,000 metric tons	(D)	260	(²)	(D)	^{5,6} (NA)	1,420
Bromine (contained)	1,000 metric tons	(D)	11	25	(D)	^{7,8} (NA)	1,000
Cadmium (contained)	Metric tons	4745	360	(²)	564	^{3,9} 6.86	(NA)
Cement	1,000 metric tons	¹⁰ 87,700	950	12	98,600	⁵ 107	15,000
Chromium	1,000 metric tons	¹¹ (D)	250	54	630	(NA)	(NA)
Clays	1,000 metric tons	33,200	5,200	(²)	28,100	(NA)	900
Cobalt (contained)	Metric tons	¹¹ 1,900	2,900	81	10,200	³ 40.40	(NA)
Copper (mine, recoverable)	1,000 metric tons	1,300	1,000	31	1,980	319	11.2
Diamond (industrial)	Mil. carats	296	122	56	671	¹² 0.20	(NA)
Diatomite	1,000 metric tons	653	152	(²)	504	⁵ 249	1,020
Feldspar	1,000 metric tons	600	11	(²)	591	⁵ 60.00	400
Fluorspar	1,000 metric tons	—	15	100	460	(NA)	—
Garnet (industrial)	Metric tons	61,000	13,900	40	102,000	⁵ 50-2,000	160
Gemstones	Mil. dol.	55.8	16,400	99	6,420	(NA)	1,200
Germanium (contained)	Kilograms	4,600	18,200	(NA)	(NA)	⁷ 1,600	70
Gold (contained)	Metric tons	230	595	(²)	(NA)	¹³ 900	9,200
Graphite (crude)	1,000 metric tons	—	16	100	39	^{5,14} 669	(NA)
Gypsum (crude)	1,000 metric tons	12,700	159	27	28,000	^{5,7} 22.20	5,400
Iodine	Metric tons	(D)	1,200	(D)	(D)	^{7,15} 22.20	30
Iron ore (usable)	Mil. metric tons	¹⁶ 56.0	9.0	(²)	52.0	⁵ 66.00	4,450
Iron and steel scrap (metal)	Mil. metric tons	87	23	(²)	(NA)	^{5,17} 390	30,000
Iron and steel slag (metal)	1,000 metric tons	¹⁸ 15,000	1,000	8	15,000	⁵ 25.00	2,400
Lead (contained)	1,000 metric tons	440	300	(²)	1,600	³ 120	3,040
Lime	1,000 metric tons	19,800	175	1	20,000	¹⁹ 89.20	5,400
Magnesium compounds	1,000 metric tons	340	26	52	704	(NA)	370
Magnesium metal	(D)	14	50	140	140	³ 15	400
Manganese (gross weight)	1,000 metric tons	—	42	100	1000	²⁰ 12.97	(NA)
Mercury	Metric tons	¹¹ (NA)	900	(²)	(NA)	²¹ 600	(NA)
Mica, scrap and flake	1,000 metric tons	99	9	16	118	⁵ 213	(NA)
Molybdenum (contained)	Metric tons	61,400	32,300	(²)	43,500	⁷ 62.99	940
Nickel (contained)	Metric tons	(D)	106,000	²² 33	118,000	²³ 21,104	—
Niobium (contained)	Metric tons	—	1,100	100	9,910	(NA)	(NA)
Nitrogen (fixed)-ammonia	1,000 metric tons	8,240	166	48	15,800	²⁴ 500	1,100
Peat	1,000 metric tons	650	79	58	1,560	⁵ 26.10	620
Perlite	1,000 metric tons	449	28	19	556	⁵ 49.93	103
Phosphate rock	1,000 metric tons	30,900	—	9	(NA)	⁵ 113	2,350
Platinum-group metals	Kilograms	²⁵ 16,100	77,200	91	(NA)	^{13,26} 1,680	271,700
Potash (K ₂ O equivalent)	1,000 metric tons	1,200	275	81	6,200	^{5,28} 717	1,130
Pumice and pumicite	1,000 metric tons	1,140	17	6	1,210	⁵ 25.00	110
Salt	1,000 metric tons	46,000	800	17	55,200	^{5,29} 155	4,100
Silicon (contained)	1,000 metric tons	³⁰ (D)	35	(³¹)	³² 374	³³ 118	(NA)
Silver (contained)	Metric tons	1,120	520	60	6,740	¹³ 15.85	850
Sodium carbonate (soda ash)	1,000 metric tons	11,200	5,200	(²)	6,000	³⁴ 260	2,500
Sodium sulfate	1,000 metric tons	320	120	(²)	270	³⁵ 134	225
Stone (crushed)	Mil. metric tons	1,340	1	1	1,360	⁵ 8.98	81,000
Sulfur (all forms)	1,000 metric tons	9,200	820	28	12,800	^{5,36} 100	2,600
Talc	1,000 metric tons	645	220	(²)	615	⁵ 121	440
Thallium (contained)	Kilograms	—	540	100	(NA)	⁷ 4,900	(NA)
Tin (contained)	Metric tons	¹¹ 2,600	4,700	80	59,500	³ 12.40	—
Titanium dioxide	1,000 metric tons	1,500	770	(²)	930	^{3,37} 9.91	4,200
Tungsten (contained)	Metric tons	¹¹ 5,000	5,675	61	14,200	³⁸ 185	(NA)
Vermiculite	1,000 metric tons	100	5	35	155	⁵ 140	100
Zinc (contained)	1,000 metric tons	829	816	73	1,010	^{3,39} 8.89	1,130
Zirconium (ZrO ₂)	Metric tons	(D)	34,100	(²)	(D)	^{5,40} 890	(NA)

— Represents zero. D Withheld to avoid disclosure. NA Not available. ¹ Calculated as a percent of apparent consumption. ² Net exporter. ³ Dollars per pound. ⁴ Refinery production. ⁵ Dollars per metric ton. ⁶ Granulated pentahydrate borax in bulk, f.o.b. mine. ⁷ Dollars per kilogram. ⁸ Bulk, purified borax. ⁹ 1- to 5-short ton lots. ¹⁰ Excludes Puerto Rico. ¹¹ Secondary production. ¹² Value of imports, dollars per carat. ¹³ Dollars per tray ounce. ¹⁴ Price of flake imports. ¹⁵ C.i.f. value, crude, per kilogram. ¹⁶ Shipments of usable ore. ¹⁷ Delivered. No. 1 Heavy Melting composite price. ¹⁸ Sales of processed slag. ¹⁹ Quiclimate only. ²⁰ 46-48 percent Mn metallurgical ore, per unit contained Mn, c.i.f. U.S. ports. ²¹ Dollars per 76-pound flask. ²² Exports include both primary and secondary materials. ²³ London Metal Exchange cash price; dollars per metric ton. ²⁴ F.o.b. Gulf Coast. ²⁵ Platinum and palladium only. ²⁶ Dealer price of platinum. ²⁷ Platinum only. ²⁸ Price of K₂O, muriate. ²⁹ Vacuum and open pan, bulk, pellets and packaged, f.o.b. mine and plant. ³⁰ Silicon metal only. ³¹ Value less than or equal to 50,000 metric tons. Ferrosilicon statistics include: production (156,001 tons), exports (6,000 tons), and net import reliance (56%). ³² Ferrosilicon only. ³³ Ferrosilicon, 50 percent; cents per pound. ³⁴ Quoted year-end price, dense, bulk, f.o.b. Green River, WY, dollars per short ton. ³⁵ Quoted price, bulk, f.o.b. works, East, dollars per short ton. ³⁶ Elemental sulfur, f.o.b. plant. ³⁷ Year-end. Unit value based on landed-duty-paid U.S. imports for consumption of pigment with 80 percent or more TiO₂. ³⁸ Dollars per metric ton unit WO₃ (7.93 kilograms of contained tungsten per metric ton unit). ³⁹ Platts Metals Week North American price for Special High Grade zinc. ⁴⁰ Price for imported zircon, f.o.b. U.S. East Coast.

Table 872. Selected Mineral Products—Average Prices: 1990 to 2008

[Excludes Alaska and Hawaii, except as noted]

Year	Nonfuels								Fuels		
	Copper, cathode ¹ (cents per lb.)	Platinum ² (dol./ troy oz.)	Gold (dol./ troy oz.) ³	Silver (dol./ troy oz.) ³	Lead ⁴ (cents per lb.)	Tin (New York) ⁵ (cents per lb.)	Zinc ⁶ (cents per lb.)	Sulfur, crude ⁷ (dol./ metric ton)	Bituminous coal ⁸ (dol./ short ton)	Crude petroleum ⁸ (dol./ bbl.)	Natural gas ⁸ (dol./ 1,000 cu. ft.)
1990	123	467	385	4.82	46	386	75	80.14	27.43	20.03	1.71
1995	138	425	386	5.15	42	416	56	44.46	25.56	14.62	1.55
1996	109	398	389	5.19	49	412	51	34.11	25.17	18.46	2.17
1997	107	397	332	4.89	47	381	65	36.06	24.64	17.23	2.32
1998	79	375	295	5.54	45	373	51	29.14	24.87	10.87	1.96
1999	76	379	280	5.25	44	366	53	37.81	23.92	15.56	2.19
2000	88	549	280	5.00	44	370	56	24.73	24.15	26.72	3.68
2001	77	533	272	4.39	44	315	44	10.01	25.36	21.84	4.00
2002	76	543	311	4.62	44	292	39	11.84	26.57	22.51	2.95
2003	85	694	365	4.91	44	340	41	28.70	26.73	27.56	4.88
2004	134	849	411	6.69	55	547	52	32.62	30.56	36.77	5.46
2005	174	900	446	7.34	61	483	67	30.88	36.80	50.28	7.33
2006	315	1,144	606	11.61	77	565	159	32.85	39.32	59.69	6.39
2007	328	1,308	699	13.38	124	899	154	36.29	40.80	66.52	6.37
2008	319	1,680	900	15.85	120	1,240	89	100.00	51.45	94.04	8.07

¹ U.S. producer price. ² Average annual dealer prices. ³ 99.95 percent purity. ⁴ Nationwide delivered basis. ⁵ Composite price. ⁶ Platt's Metals Week price for North American Special High Grade zinc. Average prices for 1990 are for U.S. High Grade Zinc. ⁷ F.o.b. (Free on Board) works. ⁸ Average value at the point of production or domestic first purchase price.

Source: Nonfuels, 1990, U.S. Bureau of Mines, thereafter, U.S. Geological Survey, *Minerals Yearbook* and *Mineral Commodities Summaries*, annual. See also <<http://minerals.er.usgs.gov/minerals/pubs/mcs/>>. Fuels, U.S. Energy Information Administration, *Annual Energy Review*. See also <<http://www.eia.doe.gov/emeu/mer/prices.html>>.

Table 873. Value of Domestic Nonfuel Mineral Production by State: 2000 to 2008

[In millions of dollars (39,400 represents \$39,400,000,000). For similar data on fuels, see Table 878]

State	2000	2007 ¹	2008 ¹	State	2000	2007 ¹	2008 ¹
United States ² . .	39,400	69,600	71,100	Montana	596	1,360	1,380
Alabama	930	1,350	1,220	Nebraska	³ 84	³ 147	³ 138
Alaska	1,140	3,530	2,740	Nevada	2,980	5,370	6,480
Arizona	2,510	7,260	7,840	New Hampshire	³ 57	³ 118	119
Arkansas	484	768	843	New Jersey	³ 291	342	326
California	3,270	4,380	4,000	New Mexico	786	1,560	1,810
Colorado	592	2,040	2,050	New York	1,020	1,530	1,520
Connecticut	³ 112	³ 166	140	North Carolina	744	1,200	³ 876
Delaware	³ 14	³ 25	³ 22	North Dakota	35	³ 50	45
Florida	1,820	3,380	4,200	Ohio	999	1,270	1,120
Georgia	1,620	2,060	1,850	Oklahoma	473	731	746
Hawaii	³ 92	150	158	Oregon	299	493	419
Idaho	358	774	1,220	Pennsylvania	³ 1,250	³ 1,840	1,680
Illinois	913	1,220	1,110	Rhode Island	³ 20	³ 52	56
Indiana	695	991	932	South Carolina	³ 551	³ 789	617
Iowa	503	688	782	South Dakota	233	270	270
Kansas	629	1,070	1,060	Tennessee	737	975	856
Kentucky	501	786	772	Texas	1,950	3,240	3,300
Louisiana	325	567	508	Utah	1,430	3,880	4,170
Maine	96	188	229	Vermont	³ 67	³ 102	99
Maryland	³ 358	³ 673	548	Virginia	710	1,150	1,090
Massachusetts	³ 200	³ 277	246	Washington	607	748	619
Michigan	1,640	1,970	2,050	West Virginia	172	268	276
Minnesota	1,460	³ 2,690	3,210	Wisconsin	³ 372	³ 540	575
Mississippi	149	238	228	Wyoming	978	1,750	1,890
Missouri	1,370	2,270	2,080				

¹ Preliminary. ² Includes undistributed not shown separately. ³ Partial data only; excludes values withheld to avoid disclosing individual company data.

Source: U.S. Geological Survey, *Minerals Yearbook*, annual, (published 29 January 2009) and *Mineral Commodities Summaries*, annual. See also <<http://minerals.er.usgs.gov/minerals/pubs/mcs/2009/mcs2009.pdf>>.

Table 874. Principal Fuels, Nonmetals, and Metals—World Production and the U.S. Share: 1990 to 2008

[In millions of short tons (4,937 represents 4,937,000,000), except as indicated; see Appendix IV]

Mineral	World production					Percent U.S. of world			
	Unit	2000	2005	2007	2008 ¹	2000	2005	2007	2008 ¹
Fuels:²									
Coal	Mil. sh. tons	4,937	6,465	7,080	(NA)	22	18	16	(NA)
Petroleum (crude)	Bil. bbl.	24.7	26.5	26.3	26.6	8	7	7	7
Natural gas (dry, marketable)	Tril. cu. ft.	88.4	101.5	(NA)	(NA)	22	18	(NA)	(NA)
Natural gas plant liquids	Bil. bbl.	2.3	2.8	2.9	2.9	30	22	22	22
Nonmetals:									
Asbestos	1,000 metric tons	2,110	2,250	2,200	2,200	—	—	—	—
Barite	1,000 metric tons	6,470	8,110	7,630	7,770	6	6	6	8
Cement	Mil. metric tons	(NA)	101	97	89	(NA)	4	4	3
Feldspar	1,000 metric tons	9,580	16,200	18,100	18,300	8	5	4	3
Fluorspar	1,000 metric tons	4,470	5,280	5,690	5,840	—	—	—	—
Gypsum	Mil. metric tons	106	118	154	151	19	21	18	13
Mica (incl. scrap)	1,000 metric tons	328	294	380	390	31	27	26	25
Nitrogen (N content)	Mil. metric tons	108	123	131	136	11	7	7	6
Phosphate rock (gross wt.)	Mil. metric tons	132	147	156	167	30	25	19	19
Potash (K ₂ O equivalent)	Mil. metric tons	27	31	35	36	4	4	3	3
Sulfur, elemental basis	Mil. metric tons	58	67	68	69	19	14	13	13
Metals, mine basis:									
Bauxite	Mil. metric tons	136	179	199	205	(NA)	(NA)	(NA)	(NA)
Copper	1,000 metric tons	13,200	15,000	15,400	15,500	11	8	8	8
Gold	Metric tons	2,590	2,470	2,380	2,330	14	10	10	10
Iron ore (gross wt.)	Mil. metric tons	1,070	1,540	2,000	2,200	6	4	3	2
Lead	1,000 metric tons	3,184	3,450	3,770	3,800	15	13	12	12
Mercury	Metric tons	1,350	1,680	1,170	950	(NA)	(D)	(NA)	(NA)
Molybdenum	1,000 metric tons	133	186	205	212	31	31	28	29
Nickel ³	1,000 metric tons	1,270	1,460	1,660	1,610	(Z)	—	—	—
Silver	1,000 metric tons	18	19	21	21	11	6	6	5
Tantalum concentrates (Ta content)	Metric tons	1,040	1,260	815	815	—	—	—	—
Titanium mineral concentrates (titanium content) ⁴	1,000 metric tons	(NA)	5,200	6,300	6,300	(NA)	6	5	3
Tungsten ³	1,000 metric tons	44	60	55	55	(NA)	—	(D)	(D)
Vanadium ³	1,000 metric tons	56	56	59	60	—	—	—	—
Zinc ³	1,000 metric tons	8,788	9,530	10,900	11,300	10	8	7	7
Metals, smelter basis:									
Aluminum	1,000 metric tons	24,400	31,900	37,900	39,700	15	8	7	7
Cadmium	1,000 metric tons	20	20	20	21	10	7	4	4
Copper	1,000 metric tons	11,000	13,600	15,400	15,700	9	4	8	8
Iron, pig	Mil. metric tons	573	825	947	927	8	4	4	4
Lead	1,000 metric tons	6,580	7,640	8,280	8,750	22	17	16	15
Magnesium ⁵	1,000 metric tons	428	622	749	808	(D)	(D)	(D)	(D)
Raw Steel	Mil. metric tons	845	1,130	1,340	1,310	12	8	7	7
Tin ⁶	1,000 metric tons	271	290	320	333	2	—	—	—
Zinc	1,000 metric tons	9,137	10,400	11,500	11,300	4	3	2	2

— Represents or rounds to zero. ¹ Preliminary. ² D Withheld to avoid disclosing company data. NA Not available. Z Less than half the unit of measure. ³ Source: Energy Information Administration, "International Energy Statistics." ⁴ Content of ore and concentrate. ⁵ Refinery production. ⁶ Primary production; no smelter processing necessary. ⁷ Production from primary sources only.

Source: Refuels, U.S. Geological Survey, *Minerals Yearbook*, annual, and *Mineral Commodities Summaries*, annual (published 29 January 2009); <<http://minerals.er.usgs.gov/minerals/pubs/mcs/2009/mcs2009.pdf>>; fuels, U.S. Energy Information Administration, "International Energy Statistics"; <<http://tonto.eia.doe.gov/clapps/ipdbproject/IEDIndex3.cfm>> (accessed 10 June 2009).

Table 875. Net U.S. Imports of Selected Minerals and Metals as Percent of Apparent Consumption: 1980 to 2008

[In percent. Based on net imports which equal the difference between imports and exports plus or minus government stockpile and industry stock changes]

Minerals and metals	1980	1990	1995	2000	2004	2005	2006	2007	2008 ¹
Bauxite ²	(NA)	98	99	100	100	100	100	100	100
Fluorspar	87	91	92	100	100	100	100	100	100
Manganese	98	100	100	100	100	100	100	100	100
Strontium	100	100	100	100	100	100	100	100	100
Tantalum	90	86	80	80	100	100	100	100	100
Vanadium	35	(D)	84	100	100	100	100	100	100
Platinum	(NA)	(NA)	(NA)	78	92	93	90	94	91
Mica (sheet)	100	100	100	100	100	100	100	100	86
Potash	65	68	75	80	80	80	79	81	81
Cobalt	93	84	79	78	77	83	82	78	81
Tin	79	71	84	88	92	78	79	79	80
Barite	44	71	65	84	78	84	81	83	79
Titanium	(NA)	(NA)	70	79	58	71	71	82	77
Zinc	60	64	71	72	72	68	78	73	73
Tungsten	53	81	90	66	73	68	68	70	61
Silver	7	(NA)	(NA)	43	54	54	38	55	60
Nickel	76	64	60	55	49	48	49	17	33
Iron and steel	13	13	21	18	14	15	17	12	9
Aluminum	(³)	(³)	23	33	44	45	41	26	(³)
Iron ore	25	21	14	10	6	4	8	—	(³)

— Represents or rounds to zero. D Withheld to avoid disclosure. NA Not available. ¹ Preliminary. ² Includes alumina. ³ Net exporter.

Source: Through 1990, U.S. Bureau of Mines; thereafter, U.S. Geological Survey, *Mineral Commodity Summaries and Minerals Yearbook*, annual and *Historical Statistics for Mineral and Material Commodities in the United States*; import and export data from U.S. Census Bureau.

Table 876. Petroleum Industry—Summary: 1990 to 2008

[602 represents 602,000. Includes all costs incurred for drilling and equipping wells to point of completion as productive wells or abandonment after drilling becomes unproductive. Based on sample of operators of different size drilling establishments]

Item	Unit	1990	1995	2000	2003	2004	2005	2006	2007	2008 ¹
Crude oil producing wells (Dec. 31)	1,000	602	574	534	513	510	498	497	500	525
Daily output per well ²	Bbl.	12.2	11.4	10.9	11.1	10.7	10.4	10.3	10.1	9.5
Completed wells drilled, total	1,000	26.58	17.55	26.78	29.96	33.38	39.61	46.05	44.98	50.00
Crude oil	1,000	11.70	7.35	7.70	7.70	8.32	10.12	12.46	12.18	16.40
Natural gas	1,000	10.30	7.42	16.28	19.63	22.38	26.30	29.89	29.24	29.74
Dry holes	1,000	4.58	2.78	2.79	2.64	2.68	3.19	3.70	3.56	3.86
Average depth per well	Feet	4,645	5,546	4,782	5,309	5,442	5,428	5,554	6,040	5,923
Average cost per well	\$1,000	384	513	755	1,200	1,673	1,721	2,102	4,172	(NA)
Average cost per foot	Dollars	76.07	87.22	142.16	216.27	292.57	306.50	378.03	688.30	(NA)
Crude oil production, total ³	Mil. bbl.	2,685	2,394	2,131	2,073	1,983	1,890	1,862	1,848	1,814
Value at wells ^{3,4}	Bil. dol.	53.77	35.00	56.93	57.14	72.93	95.03	111.16	122.96	170.56
Average price per barrel	Dollars	20.03	14.62	26.72	27.56	36.77	50.28	59.69	66.52	94.04
Lower 48 states ⁵	Mil. bbl.	2,037	1,853	1,776	1,718	1,651	1,575	1,592	1,585	1,564
Alaska	Mil. bbl.	647	542	355	356	332	315	270	264	250
Onshore	Mil. bbl.	2,290	1,838	1,482	1,339	1,294	1,265	1,241	1,244	1,312
Offshore	Mil. bbl.	395	557	649	735	689	625	621	605	502
Imports: Crude oil ^{3,6}	Mil. bbl.	2,151	2,639	3,320	3,528	3,692	3,696	3,693	3,661	3,571
Refined petroleum products	Mil. bbl.	775	586	874	949	1,119	1,310	1,310	1,255	1,140
Exports: Crude oil ³	Mil. bbl.	39.7	34.5	18.4	4.5	9.8	11.6	9.0	10.0	10.5
Proved reserves	Bil. bbl.	26.3	22.4	22.0	21.9	21.4	21.8	21.0	21.3	(NA)
Operable refineries	Number	205	175	158	149	149	148	149	149	150
Capacity (Jan. 1)	Mil. bbl.	5,684	5,633	6,027	6,116	6,166	6,251	6,329	6,367	6,422
Refinery input, total	Mil. bbl.	5,325	5,555	5,964	6,027	6,135	6,136	6,198	6,205	6,224
Crude oil ³	Mil. bbl.	4,894	5,100	5,514	5,586	5,664	5,555	5,563	5,532	5,360
Natural gas plant liquids	Mil. bbl.	171	172	139	153	154	161	183	184	178
Other liquids ⁷	Mil. bbl.	260	283	311	289	317	420	452	488	686
Refinery output, total ⁸	Mil. bbl.	5,574	5,838	6,311	6,383	6,520	6,497	6,561	6,568	6,579
Motor gasoline ⁹	Mil. bbl.	2,540	2,722	2,910	2,991	3,025	3,036	3,053	3,051	3,072
Jet fuel ¹⁰	Mil. bbl.	543	517	588	543	566	564	541	528	540
Distillate fuel oil	Mil. bbl.	1,067	1,152	1,310	1,353	1,396	1,443	1,475	1,509	1,570
Residual fuel oil	Mil. bbl.	347	288	255	241	240	229	232	246	227
Liquefied petroleum gases	Mil. bbl.	182	239	258	240	236	209	229	239	230
Utilization rate	Percent	87.1	92.0	92.6	92.6	93.0	90.6	89.7	88.5	85.4

NA Not available. ¹ Preliminary. ² Based on number of wells producing at end of year. ³ Includes lease condensate.

⁴ Values based on domestic first purchase price. ⁵ Excluding Alaska and Hawaii. ⁶ Includes imports for the Strategic Petroleum Reserve.

⁷ Unfinished oils (net), other hydrocarbons, hydrogen, aviation and motor gasoline blending components (net). Beginning 1995, also includes oxygenates (net). ⁸ Includes other products not shown separately. ⁹ Finished motor gasoline.

Beginning 1995, also includes ethanol blended into motor gasoline. ¹⁰ Prior to 2005, kerosene-type jet fuel is included with kerosene in "Other products." Beginning 2005, naphtha-type jet fuel is also included in "Other products."

Table 877. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products: 2008

[In millions of barrels (1,813.7 represents 1,813,700,000). Minus sign (-) indicates decrease]

Commodity	Supply				Disposition				Ending stocks
	Field production	Refinery and blender net production	Imports	Adjustments ¹	Stock change	Refinery and blender net inputs	Exports	Products supplied ²	
Crude oil	1,813.7	(X)	3,570.8	29.4	43.3	5,360.2	10.5	-	1,026.1
Commercial	1,813.7	(X)	3,568.2	29.4	38.4	(X)	10.5	(X)	324.2
Alaskan	249.9	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Lower 48 states	1,563.8	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
SPR	(X)	(X)	2.6	(X)	4.9	(X)	(X)	(X)	701.8
Imports by SPR	(X)	(X)	(NA)	(X)	(X)	(X)	(X)	(X)	(X)
Imports into SPR by others	(X)	(X)	2.6	(X)	(X)	(X)	(X)	(X)	(X)
Natural gas liquids and LRGs .	651.9	229.9	97.9	(X)	21.4	178.3	37.0	743.1	126.9
Pentanes plus	95.7	(X)	8.0	(X)	3.4	56.2	12.4	31.6	13.7
Liquefied petroleum gases .	556.2	229.9	89.9	(X)	18.0	122.0	24.6	711.5	113.2
Ethane/ethylene	256.9	6.7	0.1	(X)	12.7	(NA)	(NA)	250.9	27.6
Propane/propylene	187.2	190.0	66.7	(X)	3.2	(NA)	19.3	421.4	55.4
Normal butane/butylene .	48.9	30.7	15.6	(X)	1.8	49.9	5.3	38.3	23.1
Isobutane/isobutylene . .	63.2	2.6	7.5	(X)	0.3	72.1	(NA)	0.9	7.1
Finished motor gasoline	(X)	3,072.4	111.3	148.3	-11.8	(X)	62.8	3,281.0	98.2
Kerosene-type jet fuel	(X)	539.5	37.2	(X)	-1.2	(X)	22.4	555.6	38.2
Distillate fuel oil ³	(X)	1,569.5	77.2	-	12.4	(X)	193.0	1,441.4	145.9

- Represents zero. NA Not available. X Not applicable. ¹ Includes an adjustment for crude oil, previously referred to as "Unaccounted For Crude Oil." Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B of source for more details. ² Products supplied is equal to field production, plus refinery and blender net production, plus imports, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports. ³ Distillate stocks located in the "Northeast Heating Oil Reserve" are not included. For details, see Appendix C of source.

Source: U.S. Energy Information Administration, "Petroleum Supply Annual, Volume 1"; <http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_supply_annual/psa_volume1/psa_volume1.html>.

Table 878. Crude Petroleum and Natural Gas—Production and Value by Major Producing States: 2005 to 2007

[1,890 represents 1,890,000,000 barrels]

State	Crude petroleum						Natural gas marketed production ¹					
	Quantity (mil. bbl.)			Value (mil. dol.)			Quantity (bil. cu. ft.)			Value (mil. dol.)		
	2005	2006	2007	2005	2006	2007	2005	2006	2007	2005	2006	2007
Total ²	1,890	1,862	1,848	95,035	111,158	122,959	18,927	19,410	20,019	138,751	124,074	127,531
AL	8	8	7	419	476	510	297	286	270	2,751	2,168	2,011
AK	315	270	264	14,841	15,380	16,788	487	445	433	2,313	2,576	2,439
AR	6	6	6	323	358	387	191	270	270	1,383	1,739	1,868
CA	230	223	217	10,842	12,813	14,106	318	315	307	2,365	2,039	2,033
CO	23	23	23	1,263	1,492	1,558	1,133	1,203	1,243	8,418	7,362	5,680
FL	3	2	2	(NA)	(NA)	(NA)	3	3	2	(NA)	(NA)	(NA)
IL	10	10	10	523	616	631	(Z)	(Z)	(Z)	(NA)	(NA)	(NA)
IN	2	2	2	88	103	113	3	3	4	29	18	21
KS	34	36	36	1,806	2,165	2,439	377	371	366	2,456	2,082	2,082
KY	3	2	3	125	136	170	93	95	95	634	842	701
LA	75	74	77	4,080	4,745	5,491	1,296	1,361	1,364	11,305	9,429	9,577
MI	6	5	5	298	310	348	261	263	265	1,383	(NA)	(NA)
MS	18	17	20	877	1,030	1,400	53	61	73	452	414	492
MT	33	36	35	1,730	2,056	2,251	108	113	117	709	624	668
NE	2	2	2	126	134	147	1	1	2	5	(NA)	(NA)
NM	61	60	59	3,205	3,693	4,056	1,645	1,609	1,545	11,369	9,947	10,633
NY	(Z)	(Z)	(Z)	(NA)	(NA)	(NA)	55	56	55	429	399	486
ND	36	40	45	1,868	2,263	2,942	53	55	55	441	361	365
OH	6	5	5	302	341	371	84	86	88	754	669	669
OK	62	63	61	3,384	3,966	4,225	1,639	1,689	1,744	11,821	10,671	10,884
PA	4	4	4	215	232	256	169	176	182	(NA)	(NA)	(NA)
TX	388	397	397	20,396	24,354	27,108	5,276	5,548	6,092	39,813	36,591	42,514
UT	17	18	20	899	1,069	1,220	301	348	376	2,157	1,913	(NA)
WV	2	2	2	84	110	106	221	226	231	(NA)	(NA)	(NA)
WY	52	53	54	2,356	2,817	3,158	1,639	1,816	1,923	11,245	10,627	8,951
Federal offshore	131	121	114	80,118	93,384	103,032	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Lower 48 states	1,575	1,592	1,585	80,194	95,778	106,171	18,440	18,965	19,586	136,437	121,498	125,091

NA Not available. Z Less than 500,000 barrels or 500 million cubic feet. ¹ Excludes nonhydrocarbon gases. ² Includes other states not shown separately. State production does not include state offshore production. U.S. level totals shown in Tables 876 and 882 may contain revisions not carried to state level.

Source: U.S. Energy Information Administration, "Petroleum Supply Annual, Vol. 1"; "Petroleum Marketing Annual"; "Natural Gas Annual"; and "Natural Gas Monthly."

Table 879. Crude Oil, Natural Gas, and Natural Gas Liquids—Reserves by State: 2005 to 2007

[21,757 mil. bbl. represents 21,757,000,000 bbl. As of December 31. Proved reserves are estimated quantities of the mineral, which geological and engineering data demonstrate with reasonable certainty, to be recoverable in future years from known reservoirs under existing economic and operating conditions. Based on a sample of operators of oil and gas wells]

Area	2005			2006			2007		
	Crude oil proved reserves (mil. bbl.)	Natural gas (bil. cu. ft.)	Natural gas liquids (mil. bbl.)	Crude oil proved reserves (mil. bbl.)	Natural gas (bil. cu. ft.)	Natural gas liquids (mil. bbl.)	Crude oil proved reserves (mil. bbl.)	Natural gas (bil. cu. ft.)	Natural gas liquids (mil. bbl.)
United States¹	21,757	204,385	8,165	20,972	211,085	8,472	21,317	237,726	9,143
Alabama	55	3,965	61	45	3,911	56	42	3,994	53
Alaska	4,171	8,171	352	3,879	10,245	338	4,163	11,917	325
Arkansas	40	1,964	3	37	2,269	4	31	3,305	3
California	3,435	3,228	137	3,389	2,794	132	3,322	2,740	126
Colorado	250	16,596	484	274	17,149	478	304	21,851	559
Florida	59	77	7	38	45	3	32	108	2
Illinois	95	(NA)	(NA)	89	(NA)	(NA)	101	(NA)	(NA)
Indiana	16	(NA)	(NA)	12	(NA)	(NA)	17	(NA)	(NA)
Kansas	281	4,314	224	263	3,931	209	206	3,982	198
Kentucky	23	2,151	70	25	2,227	105	24	2,469	89
Louisiana	432	10,447	292	428	10,474	280	458	10,045	303
Michigan	62	2,910	39	63	3,065	42	55	3,630	55
Mississippi	189	755	7	186	813	8	200	954	9
Montana	427	986	9	419	1,057	10	410	1,052	11
Nebraska	16	(NA)	(NA)	14	(NA)	(NA)	12	(NA)	(NA)
New Mexico	690	18,201	840	705	17,934	861	735	17,245	844
New York	(NA)	349	(NA)	(NA)	363	(NA)	(NA)	376	(NA)
North Dakota	418	453	49	412	479	55	482	511	58
Ohio	46	898	(NA)	49	975	(NA)	48	1,027	(NA)
Oklahoma	630	17,123	839	569	17,464	892	530	19,031	949
Pennsylvania	14	2,782	(NA)	20	3,050	(NA)	12	3,361	(NA)
Texas	4,919	56,507	3,080	4,871	61,836	3,335	5,122	72,091	3,658
Utah	256	4,295	(²)	334	5,146	(²)	355	6,391	(NA)
Virginia	(NA)	2,018	(NA)	(NA)	2,302	(NA)	(NA)	2,529	(NA)
West Virginia	21	4,459	85	23	4,509	110	28	4,729	115
Wyoming	704	23,774	³ 879	706	23,549	³ 887	690	29,710	(NA)
Federal offshore	4,483	17,831	696	4,096	15,360	653	3,905	14,439	624
Lower 48 states	17,586	196,214	7,813	17,093	200,840	8,134	17,154	225,809	8,818

NA Not available. ¹ Includes states not shown separately. ² Included with Wyoming. ³ Includes Utah.

Source: Energy Information Administration, "U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 2007 Annual Report" (published 10 February 2009); <http://www.eia.doe.gov/oil_gas/natural_gas/data_publications/crude_oil_natural_gas_reserves/cr.html>.

Table 880. Federal Offshore Leasing, Exploration, Production, and Revenue: 1990 to 2008

[In millions (56.79 represents 56,790,000), except as indicated. Data presented by fiscal year. See source for explanation of terms and for reliability statement]

Item	Unit	1990	1995	2000	2004	2005	2006	2007	2008
Tracts offered	Number	10,459	10,995	7,992	9,123	11,447	7,905	4,992	19,812
Tracts leased	Number	825	835	553	888	989	763	360	2,121
Acres offered	Millions	56.79	59.70	42.89	48.35	61.08	42.24	26.63	106.76
Acres leased	Millions	4.30	4.34	2.92	4.69	5.24	4.12	2.01	11.73
New wells being drilled:									
Active	Number	120	124	224	156	242	209	164	190
Suspended	Number	266	247	146	56	67	61	76	67
Cumulative wells (since 1953):									
Wells completed	Number	13,167	13,475	13,718	18,260	18,001	17,801	17,429	16,410
Wells plugged and abandoned	Number	14,677	18,008	22,814	33,746	34,878	36,407	38,351	39,378
Revenue, total ¹									
Bonuses	Bil. dol.	3.4	2.7	5.2	5.3	6.3	7.6	7.0	18.0
Oil and gas royalties ¹	Bil. dol.	0.8	0.4	0.4	0.5	0.6	0.9	0.4	9.5
Rentals	Bil. dol.	2.6	2.1	4.1	4.6	5.5	6.5	6.4	8.3
Rentals	Bil. dol.	0.09	0.09	0.21	0.21	0.22	0.22	0.20	0.24
Sales value ²									
Oil	Bil. dol.	17.0	13.8	27.4	30.6	37.2	45.6	45.5	57.2
Natural gas	Bil. dol.	7.0	6.3	11.5	8.4	15.4	24.2	27.8	35.9
Natural gas	Bil. dol.	9.5	7.5	15.9	22.2	21.8	21.4	17.7	21.3
Sales volume: ³									
Oil	Mil. bbls.	324	409	566	248	332	391	471	358
Natural gas	Bil. cu. ft.	5,093	4,692	4,723	3,941	3,504	2,581	2,547	1,573

¹ Includes condensate royalties. ² Production value is value at time of production, not current value. ³ Excludes sales volumes for gas lost, gas plant products, or sulfur.

Source: U.S. Dept. of the Interior, Minerals Management Service, *Federal Offshore Statistics*, annual; for revenue, sales value, and sales volume data after 2000, Minerals Revenue Management, Annual Reported Royalty Revenue Statistical Information; <<http://www.mrm.mms.gov/MRMWebStats/Home.aspx>>.

Table 881. Oil and Gas Extraction Industry—Establishments, Employees, and Payroll by State: 2006

[8,297,839 represents 8,297,839,000. Excludes government employees, railroad employees, self-employed persons, etc. See "General Explanation" in source for definitions and statement on reliability of data. An establishment is a single physical location where business is conducted or where services or industrial operations are performed. See Appendix III]

State	Crude petroleum and natural gas extraction (211111) ¹			State	Natural gas liquid extraction (211112) ¹		
	Establishments	Number of employees ²	Annual payroll (\$1,000)		Establishments	Number of employees ²	Annual payroll (\$1,000)
United States . .	7,276	78,367	8,297,839	United States. . .	527	14,316	1,269,014
Alabama	26	398	22,672	Alabama	7	48	3,780
Colorado	378	4,160	500,680	Colorado	24	715	84,646
Kansas	397	2,755	157,924	Kansas	13	228	15,903
Kentucky	81	754	38,600	Kentucky	5	46	2,825
Louisiana	364	8,004	725,431	Louisiana	68	3,188	229,506
Mississippi	64	321	22,374	Mississippi	7	164	13,190
Montana	79	531	42,964	Montana	6	72	4,517
Nebraska	24	114	3,217	New Mexico	28	577	48,000
New Mexico	159	2,262	172,407	Oklahoma	44	492	32,950
Oklahoma	1,092	10,873	1,382,971	Texas	151	5,954	594,132
Texas	2,985	30,527	3,773,052	Utah	7	68	6,212
Utah	48	971	76,025	Wyoming	25	585	48,221
Wyoming	182	2,617	212,230				

¹ Based on North American Industry Classification System, 2002. ² Covers full- and part-time employees who are on the payroll in the pay period including March 12.

Source: U.S. Census Bureau, "County Business Patterns." See also <<http://www.census.gov/econ/cbp/index.html>>.

Table 882. Natural Gas—Supply, Consumption, Reserves, and Marketed Production: 1990 to 2008

[269 represents 269,000]. Data are for natural gas, plus a small amount of supplemental gaseous fuels]

Item	Unit	1990	1995	2000	2003	2004	2005	2006	2007	2008
Producing wells (year-end)	1,000	269	299	342	393	406	426	441	453	468
Production value at wells	Bil. of dol.	31.8	30.2	74.3	97.5	106.6	138.7	124.0	127.5	(NA)
Avg. per 1,000 cu. ft.	Dollars	1.71	1.55	3.68	4.88	5.46	7.33	6.39	6.37	(NA)
Proved reserves ¹	Tril. cu. ft.	169	165	177	189	193	204	211	238	(NA)
Marketed production ² ³	Bil. cu. ft.	18,594	19,506	20,198	19,974	19,517	18,927	19,410	20,019	21,455
Minus: Extraction losses ³	Bil. cu. ft.	784	908	1,016	876	927	876	906	930	881
Equals: Dry production	Bil. cu. ft.	17,810	18,599	19,182	19,099	18,591	18,051	18,504	19,089	20,574
Plus: Supplemental gas supplies	Bil. cu. ft.	123	110	90	68	60	64	66	63	55
Equals: Dry production with supplemental gas	Bil. cu. ft.	17,932	18,709	19,272	19,166	18,651	18,114	18,570	19,152	20,629
Plus: Withdrawals from storage	Bil. cu. ft.	1,986	3,025	3,550	3,161	3,088	3,107	2,527	3,380	3,367
Plus: Imports	Bil. cu. ft.	1,532	2,841	3,782	3,944	4,259	4,341	4,186	4,608	3,962
Plus: Balancing item ⁴	Bil. cu. ft.	307	396	-306	44	448	232	89	-83	-380
Equals: Total supply	Bil. cu. ft.	21,758	24,971	26,298	26,314	26,445	25,794	25,372	27,057	27,578
Minus: Exports	Bil. cu. ft.	86	154	244	680	854	729	724	822	1,000
Minus: Additions to storage ⁵	Bil. cu. ft.	2,499	2,610	2,721	3,358	3,202	3,055	2,963	3,187	3,335
Equals: Consumption, total	Bil. cu. ft.	19,174	22,207	23,333	22,277	22,389	22,011	21,685	23,047	23,243
Lease and plant fuel	Bil. cu. ft.	1,236	1,220	1,151	1,122	1,098	1,112	1,142	1,199	1,285
Pipeline fuel ⁶	Bil. cu. ft.	660	700	642	591	566	584	584	623	628
Residential	Bil. cu. ft.	4,391	4,850	4,996	5,079	4,869	4,827	4,368	4,717	4,866
Commercial ⁷	Bil. cu. ft.	2,623	3,031	3,182	3,179	3,129	2,999	2,832	3,017	3,122
Industrial	Bil. cu. ft.	8,255	9,384	9,293	8,273	8,341	7,709	7,654	7,823	7,937
Vehicle fuel	Bil. cu. ft.	(Z)	5	13	18	21	23	24	25	30
Electric power sector	Bil. cu. ft.	3,245	4,237	5,206	5,135	5,464	5,869	6,222	6,841	6,661
World production (dry)	Tril. cu. ft. . . .	73.7	78.1	88.4	95.5	98.5	101.5	104.0	106.0	(NA)
U.S. production (dry)	Tril. cu. ft. . . .	17.8	18.6	19.2	19.1	18.6	18.1	18.5	19.1	20.5
Percent U.S. of world	Percent	24.2	23.8	21.7	20.0	18.9	17.8	17.8	18.0	(NA)

NA Not available. Z Less than 500 million cubic feet. ¹ Estimated, end of year. Source: U.S. Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, annual. ² Marketed production includes gross withdrawals from reservoirs less quantities used for reservoir repressuring and quantities vented or flared. Excludes nonhydrocarbon gases subsequently removed. ³ Volumetric reduction in natural gas resulting from the removal of natural gas plant liquids, which are transferred to petroleum supply. ⁴ Quantities lost and imbalances in data due to differences among data sources. Since 1980, excludes intransit shipments that cross U.S.-Canada border (i.e., natural gas delivered to its destination via the other country). ⁵ Underground storage. Through 2004, includes liquefied natural gas (LNG) storage in above-ground tanks. ⁶ Natural gas consumed in the operation of pipelines and delivery to consumers. ⁷ Includes deliveries to municipalities and public authorities for institutional heating and other purposes.

Source: Except as noted, U.S. Energy Information Administration, *Annual Energy Review*; "International Energy Annual"; "U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves"; "Natural Gas Annual" and "International Energy Statistics"; <<http://www.eia.doe.gov>>.

Table 883. Natural Gas Plant Liquids—Production and Value: 1990 to 2008

[Barrels of 42 gallons (566 represents 566,000,000)]

Item	Unit	1990	1995	2000	2003	2004	2005	2006	2007	2008
Field production ¹	Mil. bbl.	566	643	699	686	662	627	635	651	652
Pentanes plus	Mil. bbl.	112	122	112	109	101	97	96	96	96
Liquefied petroleum gases	Mil. bbl.	454	521	587	577	561	529	539	555	556
Natural gas processed	Tril. cu. ft.	15	17	17	15	15	15	15	16	(NA)

NA Not available. ¹ Includes other finished petroleum products, not shown separately.

Source: U.S. Energy Information Administration, "Petroleum Supply Annual" and "Natural Gas Annual"; <<http://www.eia.doe.gov>>.

Table 884. Coal Supply, Disposition, and Prices: 2000 to 2008

[In millions of short tons (1,073.6 represents 1,073,600,000). 1 short ton = 2,000 lbs.]

Item	2000	2003	2004	2005	2006	2007	2008
United States, total supply	1,073.6	1,071.8	1,112.1	1,131.5	1,162.8	1,146.6	1,171.5
Consumption by sector:							
Total	1,084.1	1,094.9	1,107.3	1,126.0	1,112.3	1,128.0	1,121.7
Electric power	985.8	1,005.1	1,016.3	1,037.5	1,026.6	1,045.1	1,041.6
Coke plants	28.9	24.2	23.7	23.4	23.0	22.7	22.1
Other industrial plants	65.2	61.3	62.2	60.3	59.5	56.6	54.5
Combined heat and power (CHP)	28.0	24.8	26.6	25.9	25.3	22.5	23.6
Noncombined heat and power	37.2	36.4	35.6	34.5	34.2	34.1	31.0
Residential/commercial users	4.1	4.2	5.1	4.7	3.2	3.5	3.5
Year-end coal stocks:							
Total ¹	140.0	165.5	154.0	144.3	186.9	192.8	199.2
Electric power	102.0	121.6	106.7	101.1	141.0	151.2	163.1
Coke plants	1.5	0.9	1.3	2.6	2.9	1.9	2.3
Other industrial plants	4.6	4.7	4.8	5.6	6.5	5.6	6.0
Producers/distributors	31.9	38.3	41.2	35.0	36.5	34.0	27.3
U.S. coal trade:							
Net exports ²	46.0	18.0	20.7	19.5	13.4	22.8	47.3
Exports	58.5	43.0	48.0	49.9	49.6	59.2	81.5
Steam coal	25.7	20.9	21.2	21.3	22.1	27.0	39.0
Metallurgical coal	32.8	22.1	26.8	28.7	27.5	36.3	42.5
Imports	12.5	25.0	27.3	30.5	36.2	36.3	34.2
Average delivered price (dollars per short ton):							
Electric utilities	24.28	25.82	27.30	31.22	34.26	36.06	41.23
Independent power producers	(NA)	26.2	27.27	30.39	33.04	33.11	39.31
Coke plants	44.38	50.63	61.50	83.79	92.87	94.97	118.09
Other industrial plants	31.46	34.70	39.30	47.63	51.67	54.42	63.44
Average free alongside ship (f.a.s.):							
Exports	34.90	35.98	54.11	67.10	70.93	70.25	97.68
Steam coal	29.67	26.94	42.03	47.64	46.25	47.90	57.35
Metallurgical coal	38.99	44.55	63.63	81.56	90.81	88.99	134.62
Imports	30.10	31.45	37.52	46.71	49.10	47.64	59.83

 NA Not available. ¹ Includes other stocks not shown separately. ² Exports minus imports.

 Source: U.S. Energy Information Administration, "U.S. Coal Supply and Demand: 2008 Review," annual; <<http://www.eia.doe.gov/cneaf/coal/page/special/feature.html>> (released 14 April 2009).

Table 885. Coal and Coke—Summary: 1990 to 2008

[In millions of short tons (1,029 represents 1,029,000), except as indicated. Includes coal consumed at mines. Recoverability varies between 40 and 90 percent for individual deposits; 50 percent or more of overall U.S. coal reserve base is believed to be recoverable]

Item	Unit	1990	1995	2000	2004	2005	2006	2007	2008
COAL									
Coal production, total ^{1, 2}	Mil. sh. tons	1,029	1,033	1,074	1,112	1,131	1,163	1,147	1,171
Value ³	Bil. dol.	22.39	19.45	18.02	22.16	26.69	29.25	30.04	38.18
Anthracite production ²	Mil. sh. tons	3.5	4.7	4.6	1.7	1.7	1.5	1.6	1.7
Bituminous coal and lignite ⁴	Mil. sh. tons	1,026	1,028	1,069	1,110	1,130	1,161	1,145	1,170
Underground	Mil. sh. tons	425	396	374	368	369	359	352	358
Surface ²	Mil. sh. tons	605	637	700	745	763	804	795	814
Exports	Mil. sh. tons	106	89	58	48	50	50	59	82
Imports	Mil. sh. tons	3	9	13	27	30	36	36	34
Consumption ⁵	Mil. sh. tons	904	962	1,084	1,107	1,126	1,112	1,128	1,122
Electric power sector ⁶	Mil. sh. tons	783	850	986	1,016	1,037	1,027	1,045	1,042
Industrial	Mil. sh. tons	115	106	94	86	84	82	79	77
Number of mines	Number	3,243	2,104	1,453	1,379	1,415	1,438	1,374	(NA)
Daily employment	1,000	131	90	72	74	79	83	81	(NA)
Production, by state:									
Alabama	Mil. sh. tons	29	25	19	22	21	19	19	21
Illinois	Mil. sh. tons	60	48	33	32	32	33	32	33
Indiana	Mil. sh. tons	36	26	28	35	34	35	35	36
Kentucky	Mil. sh. tons	173	154	131	114	120	121	115	120
Montana	Mil. sh. tons	38	39	38	40	40	42	43	45
Ohio	Mil. sh. tons	35	26	22	23	25	23	23	26
Pennsylvania	Mil. sh. tons	71	62	75	66	67	66	65	65
Virginia	Mil. sh. tons	47	34	33	31	28	30	25	25
West Virginia	Mil. sh. tons	169	163	158	148	154	152	153	158
Wyoming	Mil. sh. tons	184	264	339	396	404	447	454	468
Other states	Mil. sh. tons	187	192	197	204	206	196	181	175
World production	Mil. sh. tons	5,354	5,107	4,951	6,093	6,491	6,807	7,081	(NA)
Percent U.S. of world	Percent	19.2	20.2	21.7	18.3	17.4	17.1	16.2	(NA)
COKE									
Production	Mil. sh. tons	27.6	23.7	20.8	16.9	16.7	16.4	16.2	15.6
Imports	Mil. sh. tons	0.8	3.8	3.8	6.9	3.5	4.1	2.5	3.6
Exports	Mil. sh. tons	0.6	1.4	1.1	1.3	1.7	1.6	1.4	2.0
Consumption ⁷	Mil. sh. tons	27.8	25.8	23.2	22.5	18.2	18.8	17.3	17.0

NA Not available. ¹ Includes bituminous coal, subbituminous coal, lignite, and anthracite. ² Beginning 2002, includes a small amount of refuse recovery. ³ Coal values are based on free-on-board rail/barge prices, which are the free-on-board prices of coal at the point of first sale, excluding freight or shipping and insurance costs. ⁴ Includes subbituminous. ⁵ Includes some categories not shown separately. ⁶ Electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity and/or heat to the public. ⁷ Consumption is calculated as the sum of production and imports minus exports and stock change.

Source: U.S. Energy Information Administration, *Annual Energy Review*, "International Energy Annual", "Annual Coal Report", "Monthly Coal Report" and "International Energy Statistics"; <<http://www.eia.doe.gov>>.

Table 886. Demonstrated Coal Reserves by Major Producing State: 2006 and 2007

[In millions of short tons (491,076 represents 491,076,000,000), except as noted. As of January 1. The demonstrated reserve base represents the sum of coal in both measured and indicated resource categories of reliability. Measured resources of coal are estimates that have a high degree of geologic assurance from sample analyses and measurements from closely spaced and geological well-known sample sites. Indicated resources are estimates based partly from sample and analyses and measurements and partly from reasonable geologic projections]

State	2006				2007			
	Number of mines	Total reserves	Method of mining		Number of mines	Total reserves	Method of mining	
			Under-ground	Surface			Under-ground	Surface
United States ¹	1,438	491,076	333,991	157,085	1,374	489,395	333,277	156,118
Alabama	57	4,174	986	3,188	49	4,141	963	3,178
Alaska	1	6,108	5,423	685	1	6,107	5,423	684
Arkansas	2	417	272	144	2	417	272	144
Colorado	12	16,158	11,397	4,761	12	16,092	11,331	4,761
Illinois	22	104,408	87,865	16,543	21	104,347	87,811	16,536
Indiana	28	9,431	8,720	711	27	9,379	8,699	681
Iowa	(NA)	2,189	1,732	457	(NA)	2,189	1,732	457
Kansas	2	972	(NA)	972	2	971	(NA)	971
Kentucky	442	29,814	16,909	12,906	417	29,618	16,770	12,848
Kentucky, Eastern	416	10,362	1,080	9,282	394	10,219	990	9,229
Kentucky, Western	26	19,452	15,829	3,624	23	19,399	15,780	3,619
Maryland	19	634	572	62	19	631	571	60
Missouri	2	5,989	1,479	4,510	2	5,988	1,479	4,509
Montana	6	119,177	70,957	48,220	6	119,123	70,957	48,166
New Mexico	4	12,093	6,142	5,951	4	12,057	6,128	5,929
North Dakota	4	9,015	(NA)	9,015	4	8,978	(NA)	8,978
Ohio	52	23,260	17,515	5,745	57	23,220	17,484	5,736
Oklahoma	10	1,551	1,230	321	9	1,549	1,229	320
Pennsylvania	270	27,349	23,113	4,236	264	27,228	23,006	4,222
Anthracite	74	7,196	3,843	3,353	72	7,195	3,843	3,352
Bituminous	196	20,153	19,270	883	192	20,034	19,164	870
Tennessee	23	770	508	262	17	766	506	260
Texas	12	12,328	(NA)	12,328	11	12,276	(NA)	12,276
Utah	13	5,344	5,076	268	10	5,295	5,028	268
Virginia	127	1,642	1,093	548	118	1,598	1,062	536
Washington	1	1,340	1,332	8	(NA)	1,340	1,332	8
West Virginia	290	32,706	29,015	3,691	282	32,450	28,845	3,605
Wyoming	21	63,261	42,499	20,762	20	62,692	42,493	20,198

NA Not available. ¹ Includes other states not shown separately.

Source: U.S. Energy Information Administration, *Annual Coal Report*, 2007. See also <http://www.eia.doe.gov/coal/page/acr/acr_sum.html>.

Table 887. Uranium Concentrate (U₃O₈) Industry—Summary: 1990 to 2008

[In millions of feet (1.7 represents 1,700,000), except as indicated. See also Table 908 in Section 19]

Item	Unit	1990	1995	2000	2003 ¹	2004	2005	2006	2007	2008
Exploration and development, surface drilling	Mil. ft.	1.7	1.3	1.0	(D)	1.2	1.7	2.7	5.1	5.1
Expenditures	Mil. dol.	(NA)	2.6	5.6	(D)	10.6	18.1	40.1	67.5	81.9
Number of mines operated	Number	39	12	10	4	6	10	11	12	17
Underground	Number	27	—	1	1	2	4	5	6	10
Openpit	Number	2	—	—	—	—	—	—	—	—
In situ leaching	Number	7	5	4	2	3	4	5	5	6
Other sources ²	Number	3	7	5	1	1	2	1	1	1
Mine production	1,000 pounds . .	5,876	3,528	3,123	2,200	2,452	3,045	4,692	4,541	3,879
Underground	1,000 pounds . .	(D)	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Openpit	1,000 pounds . .	1,881	—	—	—	—	—	—	—	—
In situ leaching	1,000 pounds . .	(D)	3,372	2,995	(D)	(D)	2,681	4,259	(D)	(D)
Other sources ²	1,000 pounds . .	3,995	156	128	(D)	(D)	(D)	(D)	(D)	(D)
Uranium concentrate production.	1,000 pounds . .	8,886	6,043	3,958	2,000	2,282	2,689	4,106	4,534	3,092
Concentrate shipments from mills and plants	1,000 pounds . .	12,957	5,500	3,187	1,600	2,280	2,702	3,838	4,050	4,130
Employment	Person-years . .	1,335	1,107	627	321	420	648	755	1,231	1,563

 — Represents zero. D Data withheld to avoid disclosing figures for individual companies. NA Not available. ¹ Estimate.

² Includes mine water, mill site cleanup and mill tailings, and well field restoration as sources of uranium.

 Source: U.S. Department of Energy, through 2002, *Uranium Industry*, annual. Thereafter, "Domestic Uranium Production Report," annual. See also <<http://www.eia.doe.gov/cneaf/nuclear/dupr/dupr.html>>.