

## Natural Resources

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, 2002*; *Timber Demand and Technology Assessment*; *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2002*; *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*. Aquaculture farming and sales data come primarily from the Census of Aquaculture, conducted roughly every 7 years by the U.S. Department of Agriculture's National Agricultural Statistics Service.

**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.

Censuses of mineral industries have been conducted by the Census Bureau at various intervals since 1840. 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. Commodity statistics on many manufactured mineral products are also collected by the Census Bureau at monthly, quarterly, or annual intervals and issued in its *Current Industrial Reports* series.

In general, figures shown in the individual commodity tables include data for outlying areas and may therefore not agree with summary tables. Except for crude petroleum and refined products, the export and import figures include foreign trade passing through the customs districts of United States and Puerto Rico but exclude shipments between U.S. territories and the customs districts.

Table 836. **Gross Domestic Product of Natural Resource-Related Industries in Current and Real (2000) Dollars by Industry: 2000 to 2007**

[In billions of dollars (9,817.0 represents \$9,817,000,000,000). Data are based on the 2002 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	2006	2007	2000	2005	2006	2007
<b>All industries, total</b> <sup>1</sup>	<b>9,817.0</b>	<b>12,433.9</b>	<b>13,194.7</b>	<b>13,841.3</b>	<b>9,817.0</b>	<b>11,003.4</b>	<b>11,319.4</b>	<b>11,566.8</b>
<b>Industries covered</b>	<b>306.3</b>	<b>444.0</b>	<b>477.7</b>	<b>(NA)</b>	<b>306.3</b>	<b>308.0</b>	<b>314.3</b>	<b>(NA)</b>
Percent of all industries	3.1	3.6	3.6	(NA)	3.1	2.8	2.8	(NA)
Agriculture, forestry, fishing, and hunting	98.0	128.8	125.4	161.4	98.0	116.5	117.6	119.2
Farms	71.5	100.9	95.7	(NA)	71.5	87.0	87.5	(NA)
Forestry, fishing, and related activities	26.5	27.9	29.7	(NA)	26.5	28.8	29.3	(NA)
Mining	121.3	225.7	262.4	275.8	121.3	105.1	111.6	111.6
Oil and gas extraction	81.0	149.6	159.4	(NA)	81.0	69.3	71.5	(NA)
Mining, except oil and gas	27.0	37.7	43.5	(NA)	27.0	26.1	26.6	(NA)
Support activities for mining	13.4	38.4	59.5	(NA)	13.4	10.9	13.1	(NA)
Timber-related manufacturing	87.0	89.6	89.9	(NA)	87.0	86.4	85.2	(NA)
Wood products	31.4	37.1	37.4	(NA)	31.4	30.9	32.8	(NA)
Paper products	55.6	52.5	52.5	(NA)	55.6	55.5	52.4	(NA)

NA Not available. <sup>1</sup> Includes industries not shown separately.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, May 2008. See also <[http://www.bea.gov/industry/gdpbyind\\_data.htm](http://www.bea.gov/industry/gdpbyind_data.htm)> (released 26 April 2008).

**Table 837. Natural Resource-Related Industries—Establishments, Sales, Payroll, and Employees by Industry: 1997 and 2002**

[174 represents \$174,000,000,000. Includes only establishments of firms with payroll. Data are based on the 1997 and 2002 economic censuses, which are subject to nonsampling error. For details on methodology and nonsampling and sampling errors, see Appendix III]

Industry	1997 NAICS code <sup>1</sup>	Establishments (number)		Value of shipments (bil. dol.)		Annual payroll (bil. dol.)		Paid employees <sup>2</sup> (1,000)	
		1997	2002	1997	2002	1997	2002	1997	2002
Mining . . . . .	21	25,000	24,284	174	184	21	22	509	488
Oil & gas extraction . . . . .	211	8,312	7,722	103	113	6	5	111	99
Mining (except oil & gas) . . . . .	212	7,348	7,196	51	47	9	9	229	195
Mining support activities . . . . .	213	9,340	9,366	20	24	6	7	169	194
Manufacturing <sup>3</sup> . . . . .	31–33	362,829	350,728	3,835	3,915	570	575	16,805	14,664
Wood product mfg. . . . .	321	17,367	17,255	88	89	14	16	570	543
Paper mfg. . . . .	322	5,868	5,495	150	153	22	21	574	489
Petroleum & coal products manufacturing . . . . .	324	2,146	2,268	177	216	6	6	108	104

<sup>1</sup> North American Industry Classification System, 1997. <sup>2</sup> For pay period including March 12. <sup>3</sup> Includes other industries not shown separately.

Source: U.S. Census Bureau, 2002 Economic Census, *Comparative Statistics*, issued July 2006; <<http://www.census.gov/econ/census02>>.

**Table 838. Natural Resource-Related Industries—Establishments, Employees, and Annual Payroll, by Industry: 2000 and 2005**

[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 <sup>1</sup>	Establishments (number)		Number of employees <sup>2</sup> (1,000)		Annual payroll (bil. dol.)	
		2000	2005	2000	2005	2000	2005
<b>Natural resource-related industries, total . . .</b>	<b>(X)</b>	<b>72,932</b>	<b>70,778</b>	<b>1,791.3</b>	<b>1,675.9</b>	<b>66.58</b>	<b>75.71</b>
Forestry, fishing, hunting, and agriculture support . . . . .	11	26,076	24,102	183.6	168.7	4.68	5.10
Forestry and logging . . . . .	113	13,347	11,048	83.1	69.5	2.26	2.27
Timber tract operations . . . . .	1131	469	472	3.3	4.5	0.13	0.19
Forest nurseries and gathering forest products . . . . .	1132	258	219	1.7	1.8	0.07	0.06
Logging . . . . .	1133	12,620	10,357	78.1	63.2	2.06	2.01
Fishing, hunting and trapping . . . . .	114	2,671	2,415	10.0	7.2	0.34	0.31
Fishing . . . . .	1141	2,308	2,047	7.5	5.5	0.27	0.26
Hunting and trapping . . . . .	1142	363	368	2.5	1.7	0.08	0.05
Agriculture and forestry support activities . . . . .	115	10,058	10,639	90.4	92.0	2.08	2.52
Crop production support activities . . . . .	1151	5,061	4,665	57.6	58.9	1.35	1.62
Animal production support activities . . . . .	1152	3,450	4,273	18.2	18.8	0.38	0.48
Forestry support activities . . . . .	1153	1,547	1,701	14.7	14.3	0.35	0.42
Mining . . . . .	21	23,738	24,696	456.1	497.3	22.09	30.82
Oil and gas extraction . . . . .	211	7,740	7,390	83.0	85.6	5.39	7.74
Mining (except oil and gas) . . . . .	212	7,231	7,130	204.3	196.9	9.34	10.89
Coal mining . . . . .	2121	1,253	1,132	70.7	74.3	3.54	4.56
Metal ore mining . . . . .	2122	522	301	34.8	26.4	1.72	1.65
Nonmetallic mineral mining and quarrying . . . . .	2123	5,456	5,697	98.8	96.3	4.08	4.69
Mining support activities . . . . .	213	8,767	10,176	168.8	214.8	7.35	12.19
Timber-related manufacturing . . . . .	(X)	23,118	21,980	1,151.6	1,009.9	39.80	39.79
Wood product manufacturing . . . . .	321	17,328	16,707	597.7	555.9	16.51	18.23
Sawmills and wood preservation . . . . .	3211	4,695	4,271	131.4	117.3	3.78	4.04
Veneer, plywood, and engineered wood product manufacturing . . . . .	3212	1,904	1,903	120.6	116.4	3.75	4.16
Other wood product manufacturing . . . . .	3219	10,729	10,533	345.8	322.2	8.95	10.03
Paper manufacturing . . . . .	322	5,790	5,273	553.9	454.0	23.29	21.56
Pulp, paper, and paperboard mills . . . . .	3221	597	621	177.1	146.9	9.48	8.83
Converted paper product manufacturing . . . . .	3222	5,193	4,652	376.8	307.0	13.82	12.73

X Not applicable. <sup>1</sup> North American Industry Classification System, 2002. <sup>2</sup> 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/epcd/cbp/view/cbpview.html>>.

**Table 839. Timber-Based Manufacturing Industries—Establishments, Shipments, Payroll, and Employees: 2002**

[89,085,026 represents \$89,085,026,000. Includes only establishments or firms with payroll. Data based on the 2002 Economic Census. See Appendix III]

Industry	2002 NAICS code <sup>1</sup>	Estab-lishments	Value of shipments (\$1,000)	Annual payroll (\$1,000)	Paid employees
<b>Wood product manufacturing</b> . . . . .	<b>321</b>	<b>17,202</b>	<b>89,085,026</b>	<b>16,054,554</b>	<b>540,565</b>
Sawmills and wood preservation . . . . .	3211	4,318	25,922,616	3,496,055	108,045
Saw mills . . . . .	321113	3,805	21,388,581	3,123,879	95,724
Wood preservation . . . . .	321114	513	4,534,035	372,176	12,321
Veneer, plywood, and engineered wood product manufacturing . . . . .	3212	1,925	20,201,016	3,681,187	114,300
Other wood product manufacturing . . . . .	3219	10,959	42,961,394	8,877,312	318,220
Millwork . . . . .	32191	4,725	22,557,817	4,415,940	151,245
Wood container and pallet manufacturing . . . . .	32192	2,948	5,055,879	1,154,283	51,003
All other wood product manufacturing . . . . .	32199	3,286	15,347,698	3,307,089	115,972
<b>Paper manufacturing</b> . . . . .	<b>322</b>	<b>5,520</b>	<b>153,766,022</b>	<b>21,497,243</b>	<b>491,436</b>
Pulp, paper, and paperboard mills . . . . .	3221	561	70,031,347	8,854,439	158,619
Pulp mills . . . . .	32211	31	3,650,916	487,324	8,043
Paper mills . . . . .	32212	327	45,163,754	5,700,302	102,571
Paperboard mills . . . . .	32213	203	21,216,677	2,666,813	48,005
Converted paper product manufacturing . . . . .	3222	4,959	83,734,675	12,642,804	332,817
Paperboard container manufacturing . . . . .	32221	2,669	43,494,303	7,091,160	184,884
Paper bag and coated and treated paper manufacturing . . . . .	32222	929	18,242,228	2,640,583	66,296
Stationery product manufacturing . . . . .	32223	636	7,977,966	1,300,452	38,595
Other converted paper product manufacturing . . . . .	32229	725	14,020,178	1,610,609	43,042

<sup>1</sup> North American Industry Classification System, 2002.

Source: U.S. Census Bureau, 2002 Economic Census, *Manufacturing, General Summary*, issued October 2005. See also <<http://www.census.gov/econ/census02>>.

**Table 840. 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 <sup>1</sup>	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 employee (mil. dol.)	Per employee (dol.)				
<b>Manufacturing, all industries</b> <sup>2</sup> . . . . .	<b>31-33</b>	<b>12,990</b>	<b>592,342</b>	<b>45,599</b>	<b>9,179</b>	<b>2,305,589</b>	<b>251,179</b>	<b>5,019,963</b>
<b>Timber-based manufacturing, total</b> . . . . .	<b>321-322</b>	<b>950</b>	<b>38,781</b>	<b>40,816</b>	<b>754</b>	<b>125,032</b>	<b>165,826</b>	<b>282,765</b>
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. <sup>1</sup> North American Industry Classification System, 2002; see text, Section 15. <sup>2</sup> Includes other industries not shown separately.

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

**Table 841. Forest Land and Timberland by Type of Owner and Region: 2002**

[In thousands of acres (748,923 represents 748,923,000). 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		
			Total	National forest	Other		Total	National forest	Farmer and other private <sup>1</sup>
<b>Total</b> . . . . .	<b>748,923</b>	<b>541,098</b>	<b>147,278</b>	<b>96,644</b>	<b>50,634</b>	<b>37,559</b>	<b>356,261</b>	<b>65,595</b>	<b>290,666</b>
North . . . . .	169,684	179,998	32,547	9,840	22,707	21,285	126,166	14,648	111,518
Northeast . . . . .	85,031	85,834	10,085	2,164	7,921	7,464	68,285	10,855	57,430
North Central . . . . .	84,653	94,164	22,462	7,676	14,786	13,821	57,881	3,793	54,088
South . . . . .	214,605	208,051	21,227	11,246	9,981	5,378	181,446	35,915	145,531
Southeast . . . . .	88,561	87,429	9,609	4,710	4,899	2,655	75,165	14,180	60,985
South Central . . . . .	126,044	120,622	11,618	6,536	5,082	2,723	106,281	21,735	84,546
Rocky Mountains . . . . .	144,343	73,467	50,268	43,959	6,309	2,839	20,360	2,926	17,434
Great Plains . . . . .	4,783	4,521	1,277	1,020	257	180	3,064	-	3,064
Intermountain . . . . .	139,560	68,946	48,991	42,939	6,052	2,659	17,296	2,926	14,370
Pacific Coast . . . . .	220,291	79,582	43,236	31,599	11,637	8,057	28,289	12,106	16,183
Alaska . . . . .	126,869	16,209	9,094	3,772	5,322	4,344	2,771	-	2,771
Pacific Northwest . . . . .	51,441	44,386	23,505	17,911	5,594	3,207	17,674	9,174	8,500
Pacific Southwest <sup>2</sup> . . . . .	41,981	18,987	10,637	9,916	721	506	7,844	2,932	4,912

- Represents or rounds to zero. <sup>1</sup> Includes Indian lands. <sup>2</sup> Includes Hawaii.

Source: U.S. Department of Agriculture, National Agricultural Statistics Service, *Agricultural Statistics, 2007*. See also <http://www.nass.usda.gov/Publications/Ag\_Statistics/index.asp>.

**Table 842. Timber Volume, Growth, and Removal on Timberland by Species, Group, and Region: 2002**

[856,061 represents 856,061,000,000]

Region	Net volume <sup>1</sup>									Timber growth <sup>4</sup>			Timber removals <sup>5</sup>		
	Growing stock <sup>2</sup> (mil. cu. ft.)			Sawtimber <sup>3</sup> (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			
<b>Total</b> . . . . .	<b>856,061</b>	<b>491,803</b>	<b>364,258</b>	<b>3,317</b>	<b>2,270</b>	<b>1,047</b>	<b>23,689</b>	<b>13,651</b>	<b>9,971</b>	<b>16,012</b>	<b>10,064</b>	<b>5,948</b>			
North . . . . .	217,624	49,878	167,746	598	149	449	5,418	1,167	4,184	2,865	680	2,185			
Northeast . . . . .	123,667	31,476	92,191	334	94	239	2,833	658	2,175	1,275	414	861			
North Central . . . . .	93,957	18,402	75,555	264	55	209	2,585	525	2,061	1,590	266	1,324			
South . . . . .	267,965	108,018	159,947	895	400	495	11,522	6,467	5,055	10,126	6,506	3,620			
Southeast . . . . .	124,002	52,758	71,244	396	177	219	5,157	3,097	2,059	4,363	2,881	1,482			
South Central . . . . .	143,963	55,260	88,703	499	223	276	6,365	3,370	2,995	5,763	3,625	2,138			
Rocky Mountains . . . . .	131,659	120,837	10,822	516	492	24	2,062	1,858	204	532	502	30			
Great Plains . . . . .	4,260	1,880	2,380	15	7	8	87	42	45	37	21	16			
Intermountain . . . . .	127,399	118,957	8,442	501	485	16	1,975	1,816	159	495	481	14			
Pacific Coast . . . . .	238,813	213,070	25,743	1,308	1,229	79	4,687	4,159	528	2,489	2,376	113			
Alaska . . . . .	31,997	29,124	2,873	146	142	5	207	122	85	140	137	3			
Pacific Northwest . . . . .	148,635	135,591	13,044	843	795	47	3,154	2,841	313	1,721	1,621	99			
Pacific Southwest <sup>6</sup> . . . . .	58,181	48,355	9,826	319	292	28	1,326	1,196	131	628	618	10			

<sup>1</sup> As of January 1. <sup>2</sup> 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. <sup>3</sup> 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. <sup>4</sup> 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. <sup>5</sup> 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. <sup>6</sup> Includes Hawaii.

Source: U.S. Department of Agriculture, National Agricultural Statistics Service, *Agricultural Statistics, 2007*. See also <http://www.nass.usda.gov/Publications/Ag\_Statistics/index.asp>.

**Table 843. Timber Removals—Roundwood Product Output by Source and Species Group: 2002**

[In million cubic feet (16,001 represents 16,001,000,000)]

Source and species group	Total	Sawlogs	Pulpwood	Veneer logs	Other products <sup>1</sup>	Fuelwood <sup>2</sup>
<b>Total</b> . . . . .	<b>16,001</b>	<b>7,237</b>	<b>4,977</b>	<b>1,353</b>	<b>814</b>	<b>1,621</b>
Softwoods . . . . .	10,107	5,218	2,865	1,183	444	397
Hardwoods . . . . .	5,894	2,019	2,112	170	370	1,224
Growing stock <sup>3</sup> . . . . .	13,750	6,793	4,352	1,285	728	592
Softwoods . . . . .	9,167	4,962	2,528	1,124	396	156
Hardwoods . . . . .	4,583	1,831	1,824	160	331	436
Other sources <sup>4</sup> . . . . .	2,251	444	625	68	86	1,029
Softwoods . . . . .	941	256	337	58	48	241
Hardwoods . . . . .	1,310	187	288	9	38	788

<sup>1</sup> Includes such items as coopersage, pilings, poles, posts, shakes, shingles, board mills, charcoal, and export logs.  
<sup>2</sup> Downed and dead wood volume left on the ground after trees have been cut on timberland. <sup>3</sup> Includes 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 the ground. <sup>4</sup> Includes salvageable dead trees, rough and rotten trees, trees of noncommercial species, trees less than 5.0 inches in diameter at 4-1/2 feet above the ground, tops, and roundwood harvested from nonforest land (for example, fence rows).

Source: U.S. Department of Agriculture, National Agricultural Statistics Service, *Agricultural Statistics, 2007*. See also <[http://www.nass.usda.gov/Publications/Ag\\_Statistics/index.asp](http://www.nass.usda.gov/Publications/Ag_Statistics/index.asp)>.

**Table 844. Total Wildland Fires and Acres: 1970 to 2007**

[Includes only nonstructure fires that occur in the wildland. Data do not include prescribed fires, which are ignited by management action under certain predetermined conditions to meet specific objectives related to hazardous fuels or habitat improvement]

Year	Fires	Acres (1,000)	Year	Fires	Acres (1,000)	Year	Fires	Acres (1,000)	Year	Fires	Acres (1,000)
1970 . .	121,736	3,279	1992 . .	87,394	2,070	1998 . .	81,043	1,330	2004 <sup>1</sup> . .	65,461	8,098
1975 . .	134,872	1,791	1993 . .	58,810	1,798	1999 . .	92,487	5,626	2005 . .	66,753	8,689
1980 . .	234,892	5,261	1994 . .	79,107	4,074	2000 . .	92,250	7,393	2006 . .	96,385	9,874
1985 . .	82,591	2,896	1995 . .	82,234	1,841	2001 . .	84,079	3,571	2007 . .	85,705	9,328
1990 . .	66,481	4,622	1996 . .	96,363	6,066	2002 . .	73,457	7,185			
1991 . .	75,754	2,954	1997 . .	66,196	2,857	2003 . .	63,629	3,961			

<sup>1</sup> 2004 fires and acres do not include state lands for North Carolina.

Source: National Interagency Coordination Center, "Wildland Fires and Acres (1960–2007)"; <[http://www.nifc.gov/fire\\_info/fires\\_acres.htm](http://www.nifc.gov/fire_info/fires_acres.htm)> (accessed 23 April 2008).

**Table 845. Timber Products—Production, Foreign Trade, and Consumption by Type of Product: 1990 to 2006**

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

Type of product	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Industrial roundwood:</b>											
Domestic production . . . . .	15,577	15,537	15,620	15,632	15,436	14,634	14,902	14,571	15,139	15,465	14,891
Softwoods . . . . .	10,968	10,191	10,097	10,381	10,201	9,859	10,124	10,290	10,710	11,002	10,514
Hardwoods . . . . .	4,609	5,347	5,523	5,251	5,235	4,775	4,778	4,282	4,428	4,463	4,377
Imports . . . . .	3,091	3,907	4,157	4,370	4,529	4,605	4,505	5,096	5,805	5,802	5,396
Exports . . . . .	2,307	2,282	1,951	1,964	1,996	1,759	1,769	1,535	1,604	1,646	1,446
Consumption . . . . .	16,361	17,161	17,827	18,038	17,969	17,481	17,637	18,132	19,339	19,622	18,841
Softwoods . . . . .	11,779	11,961	12,339	12,754	12,659	12,552	12,790	13,398	14,357	14,652	13,985
Hardwoods . . . . .	4,582	5,200	5,488	5,284	5,310	4,929	4,847	4,734	4,983	4,970	4,856
<b>Lumber:</b>											
Domestic production . . . . .	7,317	6,815	7,093	7,379	7,199	6,820	7,060	7,131	7,510	7,889	7,552
Imports . . . . .	1,909	2,522	2,721	2,807	2,845	2,903	3,036	3,193	3,704	3,737	3,439
Exports . . . . .	589	460	350	404	428	354	353	347	348	389	390
Consumption . . . . .	8,637	8,877	9,463	9,782	9,616	9,369	9,744	9,977	10,866	11,237	10,602
<b>Plywood and veneer:</b>											
Domestic production . . . . .	1,423	1,303	1,201	1,208	1,187	1,067	1,074	1,054	1,086	1,068	1,003
Imports . . . . .	97	107	131	160	155	173	205	240	354	373	369
Exports . . . . .	109	89	55	45	42	32	31	35	43	37	35
Consumption . . . . .	1,410	1,321	1,277	1,323	1,300	1,208	1,249	1,259	1,397	1,403	1,337
<b>Pulp products:</b>											
Domestic production . . . . .	5,313	6,079	6,114	5,813	5,881	5,691	5,708	5,557	5,692	5,679	5,679
Imports . . . . .	1,038	1,248	1,269	1,355	1,459	1,458	1,180	1,579	1,669	1,570	1,490
Exports . . . . .	646	905	818	768	842	801	810	643	680	708	683
Consumption . . . . .	5,704	6,422	6,565	6,400	6,498	6,348	6,078	6,493	6,680	6,541	6,486
<b>Logs:</b>											
Imports . . . . .	4	13	30	47	68	70	81	80	73	114	94
Exports . . . . .	674	451	316	326	331	307	309	356	366	345	339
Pulpwood chips, exports . . . . .	288	377	412	422	353	265	265	155	168	166	–
<b>Fuelwood consumption . . . . .</b>	<b>3,019</b>	<b>2,937</b>	<b>2,523</b>	<b>2,542</b>	<b>2,561</b>	<b>2,571</b>	<b>2,581</b>	<b>1,515</b>	<b>1,540</b>	<b>1,550</b>	<b>1,550</b>

– Represents zero.

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–1999*, Research Paper FPL-RP-595; and unpublished data. See also <<http://www.fpl.fs.fed.us/documnts/flrpl/rplrp595.pdf>>.

**Table 846. Selected Timber Products—Imports and Exports: 1990 to 2007**

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

Product	Unit	1990	1995	2000	2002	2003	2004	2005	2006	2007
<b>IMPORTS</b> <sup>1</sup>										
Lumber, total <sup>2</sup>	Mil. bd. ft. . . . .	13,063	17,524	19,906	21,434	21,981	25,493	25,738	23,695	18,442
From Canada	Percent . . . . .	91	97	92	90	90	83	85	86	85
Logs, total	Mil. bd. ft. <sup>3</sup> . . . . .	23	80	435	525	497	454	710	585	418
From Canada	Percent . . . . .	84	70	96	97	98	97	85	85	89
Paper and board <sup>4</sup>	1,000 tons . . . . .	12,195	14,292	17,555	19,433	20,034	21,146	20,438	20,293	18,634
Woodpulp	1,000 tons . . . . .	4,893	5,969	7,227	7,247	6,691	6,726	6,762	6,939	6,793
Plywood	Mil. sq. ft. <sup>5</sup> . . . . .	1,687	1,951	2,917	3,868	4,489	5,896	6,325	6,324	(NA)
<b>EXPORTS</b>										
Lumber, total <sup>2</sup>	Mil. bd. ft. . . . .	4,623	2,958	2,700	2,186	2,193	3,842	2,682	2,651	2,119
To: Canada	Percent . . . . .	14	22	26	27	29	12	28	28	25
Japan	Percent . . . . .	28	33	12	7	7	11	3	4	6
Europe	Percent . . . . .	15	17	19	16	16	9	15	16	(NA)
Logs, total	Mil. bd. ft. <sup>3</sup> . . . . .	4,213	2,820	2,068	1,934	2,224	2,287	2,157	2,120	2,189
To: Canada	Percent . . . . .	9	25	41	50	54	49	54	52	43
Japan	Percent . . . . .	62	61	45	34	29	28	27	26	26
China	Percent . . . . .	9	1	—	2	2	3	4	5	7
Paper and board <sup>4</sup>	1,000 tons . . . . .	5,163	7,621	10,003	11,564	11,868	12,566	13,434	13,349	14,582
Woodpulp	1,000 tons . . . . .	5,905	8,261	6,409	6,254	5,847	6,225	6,413	6,606	(NA)
Plywood	Mil. sq. ft. <sup>5</sup> . . . . .	1,766	1,517	754	563	640	783	568	749	(NA)

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

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–1999*, Research Paper FPL-RP-595; and unpublished data. See also <<http://www.fpl.fs.fed.us/documnts/flrplrp595.pdf>>.

**Table 847. Lumber Consumption by Species Group and End Use: 1995 to 2007**

[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	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
<b>Consumption, total</b> . . . . .	<b>59.3</b>	<b>65.1</b>	<b>68.3</b>	<b>66.1</b>	<b>64.6</b>	<b>67.5</b>	<b>67.0</b>	<b>73.1</b>	<b>75.6</b>	<b>71.3</b>	<b>60.8</b>
Per capita . . . . .	225	241	250	240	227	235	230	249	255	238	201
<b>SPECIES GROUP</b>											
Softwoods . . . . .	47.6	52.1	54.5	54.0	53.7	56.4	56.5	62.0	64.4	60.4	50.5
Hardwoods . . . . .	11.7	13.0	13.8	12.2	11.0	11.1	10.5	11.1	11.2	10.9	10.3
<b>END USE</b>											
New housing . . . . .	15.9	20.6	22.1	20.6	20.1	23.4	24.0	26.1	28.6	27.1	26.2
Residential upkeep and improvements . . . . .	14.3	14.7	15.1	16.4	17.0	17.8	18.3	20.0	20.6	20.8	20.9
New nonresidential construction <sup>1</sup> . . . . .	5.8	7.8	7.6	5.1	5.6	4.5	4.4	4.4	4.3	4.1	3.9
Manufacturing . . . . .	5.5	8.4	(NA)	(NA)	(NA)	(NA)	8.1	7.9	7.7	7.5	7.3
Shipping . . . . .	8.5	7.2	7.4	7.7	8.1	8.0	7.5	7.8	7.6	7.6	7.7
Other <sup>2</sup> . . . . .	9.3	(NA)	16.1	16.3	13.8	13.8	4.7	6.9	7.0	7.0	(NA)

NA Not available. <sup>1</sup> In addition to new construction, includes railroad ties laid as replacements in existing track and lumber used by railroads for railcar repair. <sup>2</sup> 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, 1965–1999*, Research Paper FPL-RP-595; and unpublished data. See also <<http://www.fpl.fs.fed.us/documnts/flrplrp595.pdf>>.

**Table 848. Selected Species—Stumpage Prices in Current and Constant (1996) Dollars: 2000 to 2007**

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

Species	Current dollars				Constant (1996) dollars <sup>1</sup>			
	2000	2005	2006	2007	2000	2005	2006	2007
<b>Softwoods:</b>								
Douglas fir <sup>2,3</sup> . . . . .	433	321	68	103	397	260	54	76
Southern pine <sup>3</sup> . . . . .	258	193	113	175	237	157	87	129
Sugar pine <sup>4</sup> . . . . .	187	114	38	81	172	93	30	60
Ponderosa pine <sup>4,5</sup> . . . . .	155	103	39	61	142	84	30	45
Western hemlock <sup>6</sup> . . . . .	46	70	101	21	42	57	78	15
<b>Hardwoods:</b>								
All eastern hardwoods <sup>7</sup> . . . . .	341	415	275	(NA)	313	337	213	(NA)
Oak, white, red, and black <sup>7</sup> . . . . .	258	329	180	(NA)	237	267	140	(NA)
Maple, sugar <sup>8</sup> . . . . .	314	648	533	362	288	526	413	267

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

Source: U.S. Forest Service, *Timber Demand and Technology Assessment*, RWU-4851. Also in *Agricultural Statistics*, annual.

**Table 849. Selected Timber Products—Producer Price Indexes: 1990 to 2007**

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

Product	1990	1995	2000	2002	2003	2004	2005	2006	2007
<b>Lumber and wood products<sup>1</sup></b>	<b>129.7</b>	<b>178.1</b>	<b>178.2</b>	<b>173.3</b>	<b>177.4</b>	<b>195.6</b>	<b>196.5</b>	<b>194.4</b>	<b>192.4</b>
Lumber	124.6	173.4	178.8	170.6	174.3	203.6	198.6	188.6	174.7
Softwood lumber	123.8	178.5	178.6	170.8	170.8	209.8	203.6	189.4	170.7
Hardwood lumber	131.0	167.0	185.9	178.3	188.8	199.3	196.6	195.3	192.2
Millwork <sup>1</sup>	130.4	163.8	176.4	179.8	181.8	191.9	197.2	201.8	201.3
General millwork	132.0	165.4	178.0	183.3	185.4	193.1	196.1	201.3	203.8
Prefabricated structural members	122.3	163.5	175.1	168.5	171.0	193.7	206.9	206.6	189.3
Plywood	114.2	165.3	157.6	151.7	167.0	198.5	186.8	172.7	176.0
Softwood plywood	119.6	188.1	173.3	164.1	195.9	250.9	223.5	190.5	197.7
Hardwood plywood and related products	102.7	122.2	130.2	131.5	129.0	134.4	138.1	(NA)	(NA)
Other wood products <sup>1</sup>	114.7	143.7	130.5	127.2	129.9	134.3	139.2	142.8	142.0
Boxes	119.1	145.0	155.2	154.3	157.6	163.1	164.9	167.2	170.1
<b>Pulp, paper, and allied products<sup>1</sup></b>	<b>141.2</b>	<b>172.2</b>	<b>183.7</b>	<b>185.9</b>	<b>190.0</b>	<b>195.7</b>	<b>202.6</b>	<b>209.8</b>	<b>216.8</b>
Pulp, paper, and prod., excl. bldg. paper	132.9	163.4	161.7	155.3	157.1	162.1	169.8	178.4	186.7
Woodpulp	151.3	183.2	145.3	116.2	121.4	132.2	138.0	144.1	161.5
Wastepaper	138.9	371.1	282.5	173.1	197.3	231.4	230.9	234.8	370.2
Paper	128.8	159.0	149.8	144.7	146.1	149.4	159.6	167.4	169.1
Writing and printing papers	129.1	158.4	146.6	143.8	144.7	146.0	156.1	162.8	166.5
Newsprint	119.6	161.8	127.5	105.7	112.1	124.5	138.5	151.8	131.7
Paperboard	135.7	183.1	176.7	164.3	162.7	170.2	175.5	192.0	201.7
Converted paper and paperboard products	135.2	157.0	162.7	163.8	165.3	168.3	176.1	184.1	187.8
Office supplies and accessories	121.4	134.9	133.8	135.7	137.4	137.6	143.1	146.2	151.0
Building paper & building board mill prods.	112.2	144.9	138.8	129.3	159.9	192.4	184.9	173.0	155.0

 NA not available. <sup>1</sup> Includes other products not shown separately.

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

**Table 850. Pulpwood Consumption, Woodpulp Production, and Paper and Board Production and Consumption: 1995 to 2005**

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

Item	Unit	1995	1998	1999	2000	2001	2002	2003	2004	2005
Pulpwood consumption <sup>1</sup>	1,000 cords <sup>2</sup>	97,052	96,305	94,265	95,904	92,181	90,500	85,436	87,110	88,595
Woodpulp production <sup>3</sup>	1,000 tons	67,103	65,163	62,914	62,758	58,198	58,069	53,197	54,301	60,267
Paper and board <sup>4</sup> :										
Production	1,000 tons	89,509	94,510	97,020	94,491	88,913	89,636	80,712	83,612	91,031
Consumption or new supply <sup>5</sup>	1,000 tons	96,126	100,978	104,873	103,147	97,303	97,227	94,422	95,068	101,864
Per capita	Pounds	731	747	768	731	683	676	629	627	687

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

 Source: U.S. Department of Agriculture, National Agricultural Statistics Service, *Agricultural Statistics, 2007*. See also <http://www.nass.usda.gov/Publications/Ag\_Statistics/index.asp>.

**Table 851. Paper and Paperboard—Production and New Supply: 1990 to 2006**

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

Item	1990	1995	2000	2001	2002	2003	2004	2005	2006
<b>Production, total</b>	<b>80.45</b>	<b>91.33</b>	<b>96.05</b>	<b>90.38</b>	<b>91.11</b>	<b>89.81</b>	<b>93.41</b>	<b>92.61</b>	<b>93.72</b>
Paper, total	39.36	42.87	45.52	42.10	41.56	40.37	41.82	41.40	41.81
Paperboard, total	39.32	46.64	48.97	46.81	48.13	48.02	50.08	49.71	50.41
Unbleached kraft	20.36	22.70	21.80	20.44	21.09	21.73	22.67	22.58	23.41
Semichemical	5.64	5.66	5.95	5.58	5.84	6.10	6.53	6.41	6.22
Bleached kraft	4.40	5.30	5.44	5.30	5.30	5.36	5.65	5.66	5.70
Recycled	8.92	12.98	15.79	15.50	15.91	14.83	15.24	15.05	15.07
Wet machine board	0.15	0.15	0.06	0.05	0.05	0.05	0.05	0.05	0.05
Building paper	0.81	0.81	0.64	0.58	0.55	0.55	0.58	0.57	0.56
Insulating board	0.86	0.86	0.86	0.85	0.83	0.83	0.88	0.88	0.88
<b>New supply, all grades, excluding products<sup>3</sup></b>	<b>87.68</b>	<b>98.16</b>	<b>105.02</b>	<b>83.58</b>	<b>100.57</b>	<b>99.76</b>	<b>103.74</b>	<b>101.81</b>	<b>102.28</b>
Paper, total	49.49	52.77	57.13	37.69	53.66	53.22	54.88	53.69	53.56
Newsprint	13.41	12.76	12.92	—	11.18	11.05	10.84	10.12	9.50
Printing/writing papers	25.46	29.55	32.99	30.62	31.09	31.03	32.68	31.99	32.36
Packaging and ind. conv. papers	4.72	4.24	4.27	—	4.20	3.96	4.14	4.05	4.10
Tissue	5.90	6.22	6.95	7.07	7.20	7.18	7.22	7.53	7.60
Paperboard, total	36.30	43.45	46.02	44.09	45.29	44.95	47.20	46.51	47.11
Construction and other	1.90	1.95	1.88	1.80	1.62	1.59	1.66	1.61	1.62

— Represents or rounds to zero.

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



**Table 852. Fishery Products—Domestic Catch, Imports, and Disposition: 1990 to 2006**

[Live weight, in millions of pounds (16,349 represents 16,349,000,000). For data on commercial catch for selected countries, see Table 1328, Section 30]

Item	1990	1995	2000	2001	2002	2003	2004	2005	2006
<b>Total</b> . . . . .	<b>16,349</b>	<b>16,484</b>	<b>17,340</b>	<b>18,119</b>	<b>19,028</b>	<b>19,850</b>	<b>20,412</b>	<b>20,612</b>	<b>20,966</b>
For human food . . . . .	12,662	13,584	14,738	15,303	16,007	17,187	17,648	18,147	18,560
For industrial use . . . . .	3,687	2,900	2,599	2,812	3,021	2,663	2,765	2,382	2,406
<b>Domestic catch</b> . . . . .	<b>9,404</b>	<b>9,788</b>	<b>9,069</b>	<b>9,492</b>	<b>9,397</b>	<b>9,507</b>	<b>9,683</b>	<b>9,707</b>	<b>9,489</b>
For human food . . . . .	7,041	7,667	6,912	7,314	7,205	7,521	7,794	7,997	7,808
For industrial use . . . . .	2,363	2,121	2,157	2,178	2,192	1,986	1,889	1,710	1,681
<b>Imports</b> <sup>1</sup> . . . . .	<b>6,945</b>	<b>6,696</b>	<b>8,271</b>	<b>8,627</b>	<b>9,631</b>	<b>10,343</b>	<b>10,729</b>	<b>10,905</b>	<b>11,477</b>
For human food . . . . .	5,621	5,917	7,828	7,992	8,802	9,666	9,854	10,158	10,752
For industrial use <sup>2</sup> . . . . .	1,324	779	443	635	829	677	875	747	725
<b>Exports</b> <sup>1</sup> . . . . .	<b>4,627</b>	<b>5,166</b>	<b>5,758</b>	<b>7,107</b>	<b>6,979</b>	<b>6,756</b>	<b>8,203</b>	<b>8,420</b>	<b>7,710</b>
For human food . . . . .	3,832	4,175	4,587	5,774	5,587	5,392	6,462	6,385	6,251
For industrial use <sup>2</sup> . . . . .	795	991	1,171	1,333	1,392	1,364	1,741	2,035	1,459
<b>Disposition of domestic catch</b> . . . . .	<b>9,404</b>	<b>9,788</b>	<b>9,069</b>	<b>9,489</b>	<b>9,397</b>	<b>9,507</b>	<b>9,683</b>	<b>9,707</b>	<b>9,489</b>
Fresh and frozen . . . . .	6,501	7,099	6,657	7,082	6,826	7,266	7,488	7,776	7,752
Canned . . . . .	751	769	530	536	652	498	552	563	463
Cured . . . . .	126	90	119	123	117	119	137	160	108
Reduced to meal, oil, etc. . . . .	2,026	1,830	1,763	1,748	1,802	1,624	1,506	1,208	1,166

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

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual. See also <<http://www.st.nmfs.noaa.gov/st1/fus/fus06/index.html>> (released July 2007).

**Table 853. Fisheries—Quantity and Value of Domestic Catch: 1980 to 2006**

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

Year	Quantity (mil. lb. <sup>1</sup> )			Value (mil. dol.)	Average price per lb. (cents)	Year	Quantity (mil. lb. <sup>1</sup> )			Value (mil. dol.)	Average price per lb. (cents)
	Total	For human food	For industrial products <sup>2</sup>				Total	For human food	For industrial products <sup>2</sup>		
1980 . . .	6,482	3,654	2,828	2,237	34.5	1999 . . .	9,339	6,832	2,507	3,467	37.1
1985 . . .	6,258	3,294	2,964	2,326	37.2	2000 . . .	9,069	6,912	2,157	3,550	39.1
1990 . . .	9,404	7,041	2,363	3,522	37.5	2001 . . .	9,489	7,311	2,178	3,218	33.9
1994 . . .	10,461	7,936	2,525	3,807	36.4	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 . . .	9,489	7,809	1,680	3,993	42.1

<sup>1</sup> Live weight. <sup>2</sup> 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. See also <<http://www.st.nmfs.noaa.gov/st1/fus/fus06/index.html>> (released July 2007).

**Table 854. Domestic Fish and Shellfish Catch and Value by Major Species Caught: 2000 to 2006**

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

Species	Quantity (1,000 lb.)				Value (\$1,000)			
	2000	2004	2005	2006	2000	2004	2005	2006
<b>Total</b> . . . . .	<b>9,068,985</b>	<b>9,682,981</b>	<b>9,707,275</b>	<b>9,489,031</b>	<b>3,549,481</b>	<b>3,755,778</b>	<b>3,942,376</b>	<b>3,993,370</b>
<b>Fish, total</b> <sup>1</sup> . . . . .	<b>7,689,661</b>	<b>8,415,959</b>	<b>8,462,473</b>	<b>8,349,316</b>	<b>1,594,815</b>	<b>1,748,308</b>	<b>1,836,448</b>	<b>1,932,418</b>
Cod: Atlantic . . . . .	25,060	16,069	13,920	12,588	26,384	21,691	20,828	20,453
Pacific . . . . .	530,505	590,650	548,746	518,733	142,330	148,982	150,738	197,243
Flounder . . . . .	412,723	359,781	419,430	445,787	109,910	123,956	135,176	150,834
Halibut . . . . .	75,190	80,056	76,263	71,847	143,826	176,405	177,593	200,490
Herring, Atlantic . . . . .	160,269	189,281	215,565	282,947	9,972	15,084	20,467	25,095
Herring, Pacific . . . . .	74,835	75,330	87,295	81,932	12,043	15,246	13,799	8,039
Menhaden . . . . .	1,760,498	1,497,617	1,243,723	1,304,208	112,403	72,447	62,465	66,235
Pollock, Alaska . . . . .	2,606,802	3,353,374	3,411,307	3,400,812	160,525	271,630	306,972	329,879
Salmon . . . . .	628,638	738,726	899,457	663,044	270,213	302,641	330,699	310,486
Tuna . . . . .	50,779	56,541	44,316	49,345	95,176	91,138	85,922	86,194
Whiting (Atlantic, silver) . . . . .	26,855	18,965	16,561	12,281	11,370	9,918	8,284	6,687
Whiting (Pacific, hake) . . . . .	452,718	474,528	569,381	570,489	18,809	21,823	29,145	35,234
<b>Shellfish, total</b> <sup>1</sup> . . . . .	<b>1,379,324</b>	<b>1,267,022</b>	<b>1,075,840</b>	<b>1,107,996</b>	<b>1,954,666</b>	<b>2,007,470</b>	<b>2,084,060</b>	<b>2,042,939</b>
Clams . . . . .	118,482	119,411	105,640	108,456	153,973	166,407	173,655	165,627
Crabs . . . . .	299,006	315,643	299,137	322,498	405,006	449,821	415,057	428,799
Lobsters: American . . . . .	83,180	88,386	88,032	92,515	301,300	366,006	416,597	394,711
Oysters . . . . .	41,146	38,654	33,963	27,344	90,667	112,122	110,679	121,720
Scallops, sea . . . . .	32,747	64,580	56,702	59,006	164,609	321,377	433,512	385,971
Shrimp . . . . .	332,486	309,295	260,884	292,236	690,453	427,619	406,344	419,280
Squid, Pacific . . . . .	259,508	89,580	126,107	113,312	27,077	19,831	31,601	27,202

<sup>1</sup> Includes other types of fish and shellfish not shown separately.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual. See also <<http://www.st.nmfs.noaa.gov/st1/fus/fus06/index.html>> (released July 2007).

**Table 855. Marketable Aquaculture Sales by Species: 2005**

[6,258 represents 6,258,000, except as noted. Includes foodsize aquaculture only (grown aquaculture products ready for market). Does not include stockers, fingerlings, fry, broodstock, or eggs (aquaculture used for reproduction or not yet fully grown)]

Species			Live weight (pounds)		Sales	
	Farms	Number sold (1,000)	Average	Total (\$1,000)	Average price per pound (dollars)	Total (\$1,000)
<b>FOOD FISH</b>	1,847	(X)	(X)	(X)	(X)	672,377
Bass, hybrid striped	67	6,258	1.8	10,970	2.52	27,655
Carp, grass	25	115	3.5	406	1.59	643
Catfish	1,017	396,554	1.5	607,933	0.71	429,245
Perch, yellow	40	210	0.5	110	3.08	338
Salmon	9	2,408	8.6	20,726	1.81	37,439
Sturgeon	10	103	(D)	(D)	(D)	(D)
Tilapia	128	13,272	1.3	17,203	1.72	29,620
Trout	336	56,355	1.1	60,636	1.08	65,469
<b>SPORT FISH</b>	303	(X)	(X)	(X)	(X)	18,126
Bass, largemouth	58	1,667	2.5	4,185	1.99	8,334
Crappie	12	17	1.0	16	3.25	53
Northern Pike	5	1	2.1	3	4.07	12
Sunfish	54	660	1.6	1,024	0.93	950
Walleye	6	(D)	(D)	6	(D)	(D)
<b>CRUSTACEANS</b>	925	(X)	(X)	(X)	(X)	53,381
Crabs, softshell <sup>1</sup>	154	337,912	(X)	(X)	16.54	5,588
Crawfish	647	(X)	(X)	35,933	0.59	21,143
Lobster	1	(D)	(D)	(D)	(D)	(D)
Prawns, freshwater	76	19,553	41	482	5.56	2,680
Shrimp, saltwater	34	175,494	22	8,037	2.32	18,684
<b>MOLLUSKS</b>	980	(X)	(X)	(X)	(X)	203,183
Clams, hard	406	412,876	5	85,175	0.66	56,130
Clams, Manila	103	159,886	18	8,673	1.92	16,653
Mussels	28	83,494	15	5,639	0.88	4,990
Oysters, eastern	386	256,537	2	121,668	0.33	39,892
Oysters, Pacific	187	238,560	5	47,009	1.12	52,710

D Withheld to avoid disclosing data for individual farms. X Not applicable. <sup>1</sup> Number sold is dozen sold. Average price is price per dozen.

Source: U.S. Department of Agriculture, National Agricultural Statistics Service, Census of Aquaculture: 2005, Volume 3, Special Studies Part 2, issued October 2006. See also <<http://www.agcensus.usda.gov/Publications/2002/Aquaculture/AQUACEN.pdf>>.

**Table 856. Sales of Aquaculture Products by Type, by State: 2005**

[Includes all sizes of aquaculture products (foodsize, stockers, fingerlings, fry, broodstock, and eggs)]

State	Total sales <sup>1</sup> , (\$1,000)	Food fish <sup>2</sup> , (\$1,000)	Sport fish <sup>3</sup> , (\$1,000)	State	Total sales <sup>1</sup> , (\$1,000)	Food fish <sup>2</sup> , (\$1,000)	Sport fish <sup>3</sup> , (\$1,000)
<b>U.S.</b>	<b>4,309</b>	<b>1,847</b>	<b>303</b>	MO	35	29	5
AL	215	201	20	MT	8	8	1
AK	26	1	-	NE	26	21	10
AZ	11	7	-	NV	-	-	-
AR	211	152	14	NH	10	6	1
CA	118	69	11	NJ	87	6	3
CO	15	13	1	NM	3	2	-
CT	30	3	-	NY	54	29	11
DE	3	2	1	NC	186	118	5
DC	(NA)	(NA)	(NA)	ND	1	1	1
FL	359	49	8	OH	55	36	27
GA	79	66	11	OK	20	14	6
HI	59	31	-	OR	47	18	3
ID	35	34	3	PA	56	46	8
IL	47	37	12	RI	12	-	-
IN	18	9	3	SC	85	24	12
IA	21	13	10	SD	7	5	4
KS	12	10	6	TN	45	31	4
KY	65	38	6	TX	95	63	8
LA	873	35	4	UT	11	9	1
ME	50	14	-	VT	9	8	-
MD	86	5	1	VA	147	22	-
MA	157	12	3	WA	194	18	-
MI	34	25	9	WV	21	19	2
MN	77	20	27	WI	84	70	33
MS	403	393	8	WY	7	5	-

- Represents zero. NA Not available. <sup>1</sup> Total includes food fish, sport fish, baitfish, ornamental fish, crustaceans, mollusks, and other miscellaneous aquaculture not listed in footnotes 2 and 3. <sup>2</sup> Food fish includes arctic char, hybrid striped bass, carp, catfish, Pacific threadfin, yellow perch, red drum, salmon, sturgeon, tilapia, trout, and other food fish. <sup>3</sup> Sport fish includes largemouth and smallmouth bass, crappie, muskie, northern pike, sunfish, walleye, and other sport fish.

Source: U.S. Department of Agriculture, National Agricultural Statistics Service, Census of Aquaculture: 2005, Volume 3, Special Studies Part 2, issued October 2006. See also <<http://www.agcensus.usda.gov/Publications/2002/Aquaculture/AQUACEN.pdf>>.

**Table 857. U.S. Private Aquaculture—Trout and Catfish Production and Value: 1990 to 2007**

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

Item	Unit	1990	1995	2000	2003	2004	2005	2006	2007
<b>TROUT FOODSIZE</b>									
Number sold . . . . .	Mil. . . . .	67.8	60.2	58.4	46.1	49.6	55.5	52.5	59.7
Total weight . . . . .	Mil. lb. . . . .	56.8	55.6	59.0	50.8	57.6	59.7	65.3	69.3
Total value of sales . . . . .	Mil. dol. . . . .	64.6	60.8	63.3	52.9	59.4	62.7	72.7	80.0
Avg. price received by processors . . . . .	Dol./lb. . . . .	1.14	1.09	1.07	1.04	1.03	1.05	1.11	1.15
Percent sold to processors . . . . .	Percent . . . . .	58	68	70	68	73	66	69	67
<b>CATFISH FOODSIZE</b>									
Number sold . . . . .	Mil. . . . .	272.9	321.8	420.1	381.7	389.3	405.4	370.9	352.7
Total weight . . . . .	Mil. lb. . . . .	392.4	481.5	633.8	699.3	682.2	638.9	587.0	548.4
Total value of sales . . . . .	Mil. dol. . . . .	305.1	378.1	468.8	397.1	450.9	450.2	455.1	408.8
Avg. price received by processors . . . . .	Dol./lb. . . . .	0.78	0.79	0.74	0.57	0.66	0.70	0.78	0.75
Fish sold to processors . . . . .	Mil. lb. . . . .	360.4	446.9	593.6	661.5	630.5	600.7	566.1	496.2
Avg. price paid by processors . . . . .	Cents/lb. . . . .	75.8	78.6	75.1	58.1	69.7	72.5	79.5	76.7
Processor sales . . . . .	Mil. lb. . . . .	183.1	227.0	297.2	319.3	306.8	300.0	284.0	252.5
Avg. price received by processors . . . . .	Dol./lb. . . . .	2.24	2.40	2.36	2.05	2.23	2.29	2.46	2.44
Inventory (Jan. 1) . . . . .	Mil. lb. . . . .	9.4	10.9	13.6	13.6	15.2	13.7	18.2	15.1

Source: U.S. Department of Agriculture, National Agricultural Statistics Service, *Trout Production*, released February; *Catfish Production*, released January; and *Catfish Processing*, released May. Also in *Agricultural Statistics*, annual.

**Table 858. Supply of Selected Fishery Items: 1990 to 2006**

[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	2001	2002	2003	2004	2005	2006
Shrimp . . . . .	Heads-off weight . . . . .	734	832	1,172	1,312	1,430	1,608	1,670	1,559	1,862
Tuna, canned . . . . .	Canned weight . . . . .	856	875	980	796	922	982	874	895	858
Snow crab . . . . .	Round weight . . . . .	37	42	122	171	172	198	168	171	187
Clams . . . . .	Meat weight . . . . .	152	144	133	139	144	143	132	120	122
Salmon, canned . . . . .	Canned weight . . . . .	148	147	95	81	135	111	98	123	56
American lobster . . . . .	Round weight . . . . .	95	94	124	125	135	128	138	144	150
Spiny lobster . . . . .	Round weight . . . . .	89	89	99	79	87	93	93	83	77
Scallops . . . . .	Meat weight . . . . .	74	62	78	76	91	94	94	86	94
Sardines, canned . . . . .	Canned weight . . . . .	61	44	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Oysters . . . . .	Meat weight . . . . .	56	63	71	58	62	69	53	47	42
King crab . . . . .	Round weight . . . . .	19	21	41	38	47	47	52	78	110
Crab meat, canned . . . . .	Canned weight . . . . .	9	12	29	35	44	47	56	59	58

NA Not available.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual. See also <<http://www.st.nmfs.noaa.gov/st1/fus/fus06/index.html>> (released July 2007).

**Table 859. Canned, Fresh, and Frozen Fishery Products—Production and Value: 1990 to 2006**

[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	1995	2000	2005	2006	1990	1995	2000	2005	2006
<b>Canned, total</b> <sup>1</sup> . . . . .	<b>1,178</b>	<b>1,927</b>	<b>1,747</b>	<b>1,082</b>	<b>1,081</b>	<b>1,562</b>	<b>1,887</b>	<b>1,626</b>	<b>1,211</b>	<b>1,330</b>
Tuna . . . . .	581	667	671	446	445	902	939	856	628	705
Salmon . . . . .	196	244	171	219	152	366	419	288	301	250
Clam products . . . . .	110	129	127	123	112	76	110	120	127	122
Sardines, Maine . . . . .	13	14	(Z)	(NA)	(NA)	17	24	(Z)	(NA)	(NA)
Shrimp . . . . .	1	1	2	1	(Z)	3	7	11	3	1
Crabs . . . . .	1	(Z)	(Z)	(Z)	(Z)	4	(Z)	(Z)	(Z)	(Z)
Oysters <sup>2</sup> . . . . .	1	(Z)	(Z)	(Z)	(Z)	1	(Z)	1	(Z)	(Z)
<b>Fish fillets and steaks</b> <sup>3</sup> . . . . .	<b>441</b>	<b>385</b>	<b>368</b>	<b>615</b>	<b>630</b>	<b>843</b>	<b>841</b>	<b>823</b>	<b>1,136</b>	<b>1,293</b>
Cod . . . . .	65	65	56	47	41	132	152	167	116	119
Flounder . . . . .	54	35	27	20	19	154	86	71	65	74
Haddock . . . . .	7	3	6	24	16	24	11	24	89	69
Ocean perch, Atlantic . . . . .	1	(Z)	(Z)	1	1	1	1	1	4	3
Rockfish . . . . .	33	25	11	3	2	53	38	25	8	5
Pollock, Atlantic . . . . .	12	4	2	3	2	21	10	4	6	4
Pollock, Alaska . . . . .	164	135	160	383	398	174	184	178	404	488
Other . . . . .	105	118	106	134	151	284	359	353	444	532

NA Not available. Z Less than 500,000 pounds or \$500,000.

<sup>1</sup> Includes other products not shown separately.

<sup>2</sup> Includes oyster specialties. <sup>3</sup> Fresh and frozen.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual. See also <<http://www.st.nmfs.gov/st1/fus/fus06/index.html>> (released July 2007).

**Table 860. Mineral Industries—Employment, Hours, and Earnings: 1990 to 2007**

[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	2003	2004	2005	2006	2007
<b>All mining:</b>									
All employees . . . . .	1,000 . . . . .	680	558	520	503	523	562	620	662
Production workers . . . . .	1,000 . . . . .	469	391	383	364	384	419	466	495
Avg. weekly hours . . . . .	Number . . . . .	46.1	46.8	45.5	44.4	45.4	46.4	46.3	46.2
Avg. weekly earnings . . . . .	Dollars . . . . .	630	711	771	796	837	884	938	989
<b>Coal mining:</b>									
All employees . . . . .	1,000 . . . . .	136	97	72	70	71	74	78	78
Production workers . . . . .	1,000 . . . . .	110	78	59	59	59	61	67	69
Avg. weekly hours . . . . .	Number . . . . .	44.7	45.7	45.6	46.2	47.7	48.5	49.5	47.8
Avg. weekly earnings . . . . .	Dollars . . . . .	822	929	945	963	1,029	1,071	1,093	1,050
<b>Oil and gas extraction:</b>									
All employees . . . . .	1,000 . . . . .	190	152	125	120	123	126	135	146
Production workers . . . . .	1,000 . . . . .	84	73	67	67	70	72	78	83
Avg. weekly hours . . . . .	Number . . . . .	44.4	43.6	41.3	41.1	43.5	44.3	43.0	41.9
Avg. weekly earnings . . . . .	Dollars . . . . .	591	677	802	778	808	856	921	1,015
<b>Metal ore mining:</b>									
All employees . . . . .	1,000 . . . . .	53	48	38	27	28	29	32	37
Production workers . . . . .	1,000 . . . . .	43	39	29	20	20	22	25	28
Avg. weekly hours . . . . .	Number . . . . .	42.5	43.4	43.4	43.7	45.2	44.2	43.5	45.8
Avg. weekly earnings . . . . .	Dollars . . . . .	646	788	871	957	1,035	1,001	974	1,077
<b>Nonmetallic minerals mining, and quarrying:</b>									
All employees . . . . .	1,000 . . . . .	113	108	115	106	107	110	110	110
Production workers . . . . .	1,000 . . . . .	85	81	87	78	81	84	82	82
Avg. weekly hours . . . . .	Number . . . . .	45.0	46.3	46.1	45.1	44.6	45.9	46.1	46.4
Avg. weekly earnings . . . . .	Dollars . . . . .	532	632	722	773	791	830	863	872

Source: U.S. Bureau of Labor Statistics, the Current Employment Statistics program Internet site <<http://www.bls.gov/ces/home.htm>>.

**Table 861. Mine Safety: 2000 to 2007**

[Reported injury rates per 200,000 employee hours]

Item	All mines			Coal			Metal and nonmetal		
	2000	2006	2007	2000	2006	2007	2000	2006	2007
Number of mines . . . . .	14,413	14,885	14,786	2,124	2,113	2,013	12,289	12,772	12,773
Number of miners . . . . .	348,548	363,497	376,386	108,098	122,975	122,328	240,450	240,522	254,058
Fatalities . . . . .	85	73	64	38	47	33	47	26	31
Fatal injury rate . . . . .	0.03	0.02	0.02	0.04	0.40	0.29	0.02	0.01	0.01
All injury rate . . . . .	5.13	3.64	3.42	6.64	4.46	4.19	4.45	3.19	3.01
Coal production (mil. tons) . . . . .	1,078	1,163	1,141	1,078	1,163	1,141	(X)	(X)	(X)
Total mining area inspection hours/mine . . . . .	57	43	44	178	161	169	28	19	19
Citations and orders . . . . .	120,269	140,268	145,050	58,394	77,732	84,722	61,875	62,536	60,328
S&S <sup>1</sup> citations and orders (percent) . . . . .	36	33	31	42	40	38	31	24	23
Amount assessed <sup>2</sup> (mil. dol.) . . . . .	24.7	35.1	74.5	12.0	22.5	63.5	12.7	12.7	21.0

X Not applicable. <sup>1</sup> A violation that "significantly and substantially" contributes to the cause and effect of a coal or other mine safety or health hazard. <sup>2</sup> 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" (released 6 February 2008); <<http://www.msha.gov/MSHAINFO/FactSheets/MSHAFACT10.HTM>>.

**Table 862. Mining and Primary Metal Production Indexes: 1990 to 2007**

[Index 2002 = 100]

Industry group	NAICS <sup>1</sup> code	1990	1995	2000	2002	2003	2004	2005	2006	2007
		<b>Mining<sup>2</sup></b> . . . . .	<b>21</b>	<b>106.9</b>	<b>104.4</b>	<b>103.5</b>	<b>100.0</b>	<b>100.2</b>	<b>99.6</b>	<b>98.3</b>
Oil and gas extraction <sup>2</sup> . . . . .	211	107.3	104.0	101.0	100.0	99.0	96.0	92.0	93.4	94.9
Crude oil and natural gas . . . . .	211111	109.2	104.8	100.9	100.0	99.7	95.9	92.1	93.4	94.9
Coal mining . . . . .	2121	98.3	96.8	99.2	100.0	97.5	100.8	102.5	105.2	103.7
Metal ore mining . . . . .	2122	112.1	122.6	120.2	100.0	95.4	98.2	106.1	109.9	109.6
Iron ore . . . . .	21221	109.8	121.8	122.2	100.0	94.1	106.0	105.2	102.3	101.7
Gold ore and silver ore . . . . .	21222	99.6	106.6	118.8	100.0	92.9	86.8	86.1	84.5	81.7
Copper, nickel, lead, and zinc . . . . .	21223	120.2	137.7	121.8	100.0	98.5	100.6	99.2	103.4	103.6
Oil and gas drilling . . . . .	213111	102.3	89.5	114.4	100.0	116.2	126.9	142.5	164.4	170.3
<b>Primary metal manufacturing<sup>2</sup></b> . . . . .	<b>331</b>	<b>96.2</b>	<b>105.4</b>	<b>110.3</b>	<b>100.0</b>	<b>99.1</b>	<b>110.0</b>	<b>108.0</b>	<b>112.4</b>	<b>110.4</b>
Iron and steel . . . . .	3311	95.1	105.6	110.9	100.0	101.2	118.2	110.1	119.5	115.8
Aluminum . . . . .	3313	102.4	98.0	103.4	100.0	95.8	96.4	102.5	104.8	104.3
Nonferrous metals <sup>2</sup> . . . . .	3314	109.2	120.7	109.0	100.0	100.3	103.7	103.3	98.4	100.7
Copper . . . . .	33142	142.5	263.1	133.9	100.0	86.9	90.7	81.7	67.6	71.1

<sup>1</sup> Based on the 2002 North American Industry Classification System (NAICS). <sup>2</sup> 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 863. Mineral Production: 1990 to 2007**

[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	2005	2006	2007, est.
<b>FUEL MINERALS</b>						
Coal, total	Mil. sh. tons	1,029.1	1,073.6	1,131.5	1,162.7	1,145.6
Bituminous	Mil. sh. tons	693.2	574.3	571.2	561.6	534.9
Subbituminous	Mil. sh. tons	244.3	409.2	474.7	515.3	530.6
Lignite	Mil. sh. tons	88.1	85.6	83.9	84.2	78.5
Anthracite	Mil. sh. tons	3.5	4.6	1.7	1.5	1.6
Natural gas (marketed production)	Tril. cu. ft.	18.59	20.20	18.93	19.38	20.15
Petroleum (crude)	Mil. bbl. <sup>1</sup>	2,685	2,131	1,890	1,862	1,862
Uranium (recoverable content)	Mil. lb.	8.9	4.0	2.7	4.1	4.5
<b>NONFUEL MINERALS</b>						
Asbestos (sales)	1,000 metric tons	(D)	5	-	-	-
Barite, primary, sold/used by producers	1,000 metric tons	430	392	489	589	540
Boron minerals, sold or used by producers	1,000 metric tons	1,090	1,070	1,150	(D)	(D)
Bromine, sold or used by producers	1,000 metric tons	177	228	226	243	235
Cement:						
Portland <sup>2</sup>	Mil. metric tons	67	84	94	93	90
Masonry <sup>3</sup>	Mil. metric tons	3	4	5	5	4
Clays	1,000 metric tons	42,900	40,800	41,200	41,200	40,600
Diatomite	1,000 metric tons	631	677	653	799	830
Feldspar	1,000 metric tons	630	790	750	760	760
Fluorspar, finished shipments	1,000 metric tons	64	-	-	-	-
Garnet (industrial)	1,000 metric tons	47	60	40	34	34
Gypsum, crude	Mil. metric tons	15	20	21	21	22
Helium <sup>5</sup>	Mil. cu. meters	65	98	76	79	80
Lime, sold or used by producers	Mil. metric tons	16	20	20	21	20
Mica, scrap & flake, sold/used by producers	1,000 metric tons	109	101	78	110	72
Peat, sales by producers	1,000 metric tons	721	847	751	734	747
Perlite, processed, sold or used	1,000 metric tons	576	672	508	454	444
Phosphate rock (marketable)	Mil. metric tons	46	39	36	30	30
Potash (K <sub>2</sub> O equivalent) sales	1,000 metric tons	1,710	1,300	1,200	1,100	1,200
Pumice & pumicite, producer sales	1,000 metric tons	443	1,050	1,270	1,540	1,410
Salt, common, sold/used by producers	Mil. metric tons	37	46	45	44	44
Sand & gravel, sold/used by producer	Mil. metric tons	855	1,148	1,301	1,352	1,205
Construction	Mil. metric tons	829	1,120	1,270	1,320	1,170
Industrial	Mil. metric tons	26	28	31	32	35
Sodium carbonate (natural) (soda ash)	1,000 metric tons	9,100	10,200	11,000	11,000	11,100
Sodium sulfate (natural)	1,000 metric tons	349	(NA)	309	290	300
Stone <sup>6</sup>	Mil. metric tons	1,110	2,810	3,060	3,050	2,940
Crushed and broken	Mil. metric tons	1,110	1,560	1,700	1,720	1,440
Dimension	1,000 metric tons	1,120	1,250	1,360	1,330	1,500
Sulfur: Total shipments	1,000 metric tons	11,500	10,700	9,480	8,960	8,860
Sulfur: Frasch mines (shipments)	1,000 metric tons	3,680	900	-	-	-
Talc and pyrophyllite, crude	1,000 metric tons	1,270	851	856	895	839
Vermiculite concentrate	1,000 metric tons	209	150	100	100	100
<b>METALS</b>						
Antimony ore and concentrate	Metric tons	(D)	(D)	-	-	-
Aluminum	1,000 metric tons	4,048	3,668	2,481	2,284	2,550
Bauxite (dried)	1,000 metric tons	(D)	(NA)	(NA)	(NA)	(NA)
Copper (recoverable content)	1,000 metric tons	1,590	1,450	1,140	1,200	1,180
Gold (recoverable content)	Metric tons	294	353	256	252	240
Iron ore (gross weight) <sup>8</sup>	Mil. metric tons	57	61	53	53	49
Lead (recoverable content)	1,000 metric tons	484	449	426	419	420
Magnesium metal	1,000 metric tons	139	(D)	(D)	(D)	(D)
Manganiferous ore (gross weight) <sup>9</sup>	1,000 metric ton	(D)	-	(NA)	(NA)	(NA)
Mercury	Metric tons	(NA)	(NA)	(NA)	(NA)	(NA)
Molybdenum (concentrate)	1,000 metric tons	62	41	58	60	59
Nickel ore (recovered Ni content)	1,000 metric tons	330	-	-	-	-
Palladium metal	Kilograms	5,930	10,300	13,300	14,400	13,500
Platinum metal	Kilograms	1,810	3,110	3,920	4,290	3,400
Silicon (Si content)	1,000 metric tons	418	367	270	146	156
Silver (recoverable content)	Metric tons	2,120	1,860	1,230	1,140	1,220
Titanium concentrate (TiO <sub>2</sub> content)	1,000 metric tons	(D)	300	300	300	300
Tungsten ore and concentrate <sup>11</sup>	Metric tons	(D)	-	-	-	(D)
Zinc (recoverable content)	1,000 metric tons	515	805	748	727	740

- Represents zero. D Withheld to avoid disclosing individual company data. NA Not available. <sup>1</sup> 42 gal. bbl. <sup>2</sup> Data for 1990 includes Puerto Rico. <sup>3</sup> Excludes Puerto Rico for 2000-2006. <sup>4</sup> Beginning 2000, includes apatite. <sup>5</sup> Refined.

<sup>6</sup> Excludes abrasive stone, bituminous limestone and sandstone, and ground soapstone, all included elsewhere in table; includes calcareous marl and slate. <sup>7</sup> Includes Puerto Rico in 1990. <sup>8</sup> Represents shipments; includes by-product ores. <sup>9</sup> 5- to 35-percent manganiferous ore. <sup>10</sup> Covers mercury recovered as a by-product of gold ores only. <sup>11</sup> 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*, 2007; most recent year from "Monthly Energy Review" and "Annual Coal Report"; <http://www.eia.doe.gov>.

**Table 864. Nonfuel Mineral Commodities—Summary: 2007**

[2,550 represents 2,550,000. 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 <sup>1</sup> (percent)		
Aluminum	1,000 metric tons	2,550	2,800	30	5,500	2 <sup>11</sup>
Antimony (contained)	Metric tons	3 <sup>2</sup>	3,060	86	22,900	2,259
Asbestos	1,000 metric tons	—	1	100	2	(NA)
Barite	1,000 metric tons	540	20	83	3,260	440.00
Bauxite and alumina (metal equivalent)	1,000 metric tons	(NA)	590	100	3,490	430.00
Beryllium (contained)	Metric tons	100	90	( <sup>5</sup> )	91	(NA)
Bismuth (contained)	Metric tons	—	670	95	2,130	213.75
Boron (B <sub>2</sub> O <sub>3</sub> content)	1,000 metric tons	(D)	200	( <sup>5</sup> )	(D)	4, 6 <sup>9</sup>
Bromine (contained)	1,000 metric tons	235	10	13	270	7, 8 <sup>9</sup>
Cadmium (contained)	Metric tons	( <sup>5</sup> )	304	( <sup>5</sup> )	441	2, 9 <sup>3</sup> , 200
Cement	1,000 metric tons	94,000	10 <sup>10</sup> , 1,850	17	115,000	4102
Chromium	1,000 metric tons	(D)	210	62	630	(NA)
Clays	1,000 metric tons	40,600	6,050	( <sup>5</sup> )	34,800	(NA)
Cobalt (contained)	Metric tons	11 <sup>11</sup> , 2,000	3,100	78	9,200	230.20
Copper (mine, recoverable)	1,000 metric tons	2,000	935	37	2,300	328
Diamond (industrial)	Million carats	295	104	52	617	12 <sup>12</sup> , 0.19
Diatomite	1,000 metric tons	830	175	( <sup>5</sup> )	659	4220
Feldspar	1,000 metric tons	760	11	( <sup>5</sup> )	753	459.00
Fluorspar	1,000 metric tons	—	13	100	601	(NA)
Garnet (industrial)	Metric tons	34,000	12,500	56	77,600	450–2,000
Gemstones	Million dollars	64	11,400	99	8,260	(NA)
Germanium (contained)	Kilograms	4,600	14,500	(NA)	(NA)	71,240
Gold (contained)	Metric tons	240	580	( <sup>5</sup> )	(NA)	13675
Graphite (crude)	1,000 metric tons	—	23	100	32	4, 14598
Gypsum (crude)	1,000 metric tons	22,000	150	26	42,400	47.50
Iodine	Metric tons	(D)	2,970	(D)	(D)	7, 1520.63
Iron ore (usable)	Million metric tons	16 <sup>16</sup> , 49.0	9.0	—	52.0	463.00
Iron and steel scrap (metal)	Million metric tons	71	15	( <sup>5</sup> )	(NA)	4, 17249
Iron and steel slag (metal)	1,000 metric tons	18 <sup>18</sup> , 20,000	1,000	7	19,900	420.00
Lead (contained)	1,000 metric tons	420	300	( <sup>5</sup> )	1,630	21.23
Lime	1,000 metric tons	20,200	200	1	20,400	1984.00
Magnesium compounds	1,000 metric tons	266	27	57	619	(NA)
Magnesium metal	1,000 metric tons	(D)	13	47	110	22.00
Manganese (gross weight)	1,000 metric tons	—	2	100	910	203.32
Mercury	Metric tons	11 <sup>11</sup> (NA)	300	( <sup>5</sup> )	(NA)	21550
Mica, scrap and flake	1,000 metric tons	72	8	32	106	4112
Molybdenum (contained)	Metric tons	59,400	35,200	( <sup>5</sup> )	44,000	764.68
Nickel (contained)	Metric tons	—	116,000	22 <sup>22</sup> , 7	112,000	2337,216
Niobium (contained)	Metric tons	—	600	100	10,000	(NA)
Nitrogen (fixed)-ammonia	1,000 metric tons	8,300	100	44	14,700	24300
Peat	1,000 metric tons	615	55	60	1,540	425.57
Perlite	1,000 metric tons	444	30	30	634	451.61
Phosphate rock	1,000 metric tons	29,700	—	14	(NA)	439.30
Platinum-group metals	Kilograms	16,900	81,000	94	(NA)	13, 251,260
Potash (K <sub>2</sub> O equivalent)	1,000 metric tons	1,200	300	81	6,200	4, 26390
Pumice and pumicite	1,000 metric tons	1,410	22	20	1,760	430.33
Salt	1,000 metric tons	43,800	1,000	18	49,900	4, 27150.00
Silicon (contained)	1,000 metric tons	28 <sup>28</sup> (D)	27	( <sup>23</sup> )	30354	3173
Silver (contained)	Metric tons	1,220	1,000	55	7,980	1313,40
Sodium carbonate (soda ash)	1,000 metric tons	11,100	5,100	( <sup>5</sup> )	6,000	32170
Sodium sulfate	1,000 metric tons	300	80	( <sup>5</sup> )	250	33134
Stone (crushed)	Million metric tons	1,440	1	1	1,460	48.75
Sulfur (all forms)	1,000 metric tons	8,860	910	24	11,600	4, 3440.00
Talc	1,000 metric tons	839	220	( <sup>5</sup> )	829	4108
Thallium (contained)	Kilograms	—	2,070	100	(NA)	74,560
Tin (contained)	Metric tons	11 <sup>11</sup> , 2,800	5,100	79	58,600	28,42
Titanium dioxide	1,000 metric tons	1,450	600	( <sup>5</sup> )	1,110	2, 35(NA)
Tungsten (contained)	Metric tons	11 <sup>11</sup> , 4,400	6,040	70	14,400	38190
Vermiculite	1,000 metric tons	100	5	40	170	4140
Zinc (contained)	1,000 metric tons	740	789	73	936	2, 374.51
Zirconium (ZrO <sub>2</sub> )	Metric tons	(D)	48,100	( <sup>5</sup> )	(D)	4, 38840

— Represents zero. D Withheld to avoid disclosure. NA Not available. <sup>1</sup> Calculated as a percent of apparent consumption. <sup>2</sup> Dollars per pound. <sup>3</sup> Refinery production. <sup>4</sup> Dollars per metric ton. (<sup>5</sup>) Net exporter. <sup>6</sup> Granulated pentahydrate borax in bulk, f.o.b. mine. <sup>7</sup> Dollars per kilogram. <sup>8</sup> Bulk, purified bromine. <sup>9</sup> 1- to 5-short ton lots. <sup>10</sup> Excludes Puerto Rico. <sup>11</sup> Secondary production. <sup>12</sup> Value of imports, dollars per carat. <sup>13</sup> Dollars per tray ounce. <sup>14</sup> Price of flake imports. <sup>15</sup> C.i.f. value, crude, per kilogram. <sup>16</sup> Shipments of usable ore. <sup>17</sup> Delivered, No. 1 Heavy Melting composite price. <sup>18</sup> Sales of processed slag. <sup>19</sup> Quick lime only. <sup>20</sup> 46–48 percent Mn metallurgical ore, per unit contained Mn, c.i.f. U.S. ports. <sup>21</sup> Dollars per 76-pound flask. <sup>22</sup> Exports include both primary and secondary materials. <sup>23</sup> London Metal Exchange cash price. <sup>24</sup> F.o.b. Gulf Coast. <sup>25</sup> Dealer price of platinum. <sup>26</sup> Price of K<sub>2</sub>O, muriate. <sup>27</sup> Vacuum and open pan, bulk, pellets and packaged, f.o.b. mine and plant. <sup>28</sup> Silicon metal only. <sup>29</sup> 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%). <sup>30</sup> Ferrosilicon only. <sup>31</sup> Ferrosilicon, 50 percent. <sup>32</sup> Quoted year-end price, dense, bulk, f.o.b. Green River, WY, dollars per short ton. <sup>33</sup> Quoted price, bulk, f.o.b. works, East, dollars per short ton. <sup>34</sup> Elemental sulfur, f.o.b. mine and/or plant. <sup>35</sup> Rutile, list, year-end. <sup>36</sup> Dollars per metric ton unit W03 (7.93 kilograms of contained tungsten per metric ton unit). <sup>37</sup> London Metal Exchange cash price for Special High Grade zinc. <sup>38</sup> Price for imported zircon, f.o.b. U.S. East Coast.

Source: U.S. Geological Survey, *Mineral Commodity Summaries*, annual. See also <<http://minerals.er.usgs.gov/minerals/pubs/mcs/2008/mcs2008.pdf>> (released 30 January 2008).

**Table 865. Selected Mineral Products—Average Prices: 1990 to 2007**

[Excludes Alaska and Hawaii, except as noted]

Year	Nonfuels							Fuels			
	Copper cathode <sup>1</sup> (cents per lb.)	Platinum <sup>2</sup> (dol./ troy oz.)	Gold (dol./ troy oz.) <sup>3</sup>	Silver (dol./ troy oz.) <sup>3</sup>	Lead <sup>4</sup> (cents per lb.)	Tin (New York) <sup>5</sup> (cents per lb.)	Zinc <sup>6</sup> (cents per lb.)	Sulfur, crude <sup>7</sup> (dol./ metric ton)	Bituminous coal <sup>8</sup> (dol./ short ton)	Crude petroleum <sup>8</sup> (dol./ bbl.)	Natural gas <sup>8</sup> (dol./ 1,000 cu. ft.)
1990	123	455	385	4.82	46	386	75	80.14	27.43	20.03	1.71
1994	111	411	385	5.29	37	369	49	30.08	25.68	13.19	1.85
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	51	547	53	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	6.40
2007	328	1,260	675	13.40	123	842	159	40.00	40.83	66.52	6.39

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

Source: Nonfuels, through 1994, 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* and most recent year from Monthly Energy Review; <<http://www.eia.doe.gov>>.

**Table 866. Value of Domestic Nonfuel Mineral Production by State: 2000 to 2007**

[In millions of dollars (39,400 represents \$39,400,000,000). For similar data on fuels, see Table 871]

State	2000	2006	2007 <sup>1</sup>	State	2000	2006	2007 <sup>1</sup>
<b>United States</b>	<b>2<sup>3</sup>9,400</b>	<b>66,500</b>	<b>68,000</b>	Montana	596	1,070	1,290
Alabama	930	1,360	1,340	Nebraska	<sup>3</sup> 84	129	214
Alaska	1,140	3,010	3,430	Nevada	2,980	5,140	5,210
Arizona	2,510	6,740	7,380	New Hampshire	<sup>3</sup> 57	112	115
Arkansas	484	789	913	New Jersey	<sup>3</sup> 291	547	582
California	3,270	4,590	4,390	New Mexico	786	1,470	1,520
Colorado	592	1,680	1,940	New York	1,020	1,330	1,330
Connecticut	<sup>3</sup> 112	168	181	North Carolina	744	1,020	986
Delaware	<sup>3</sup> 14	22	34	North Dakota	35	44	56
Florida	1,820	3,220	3,190	Ohio	999	1,270	1,240
Georgia	1,620	2,080	2,110	Oklahoma	473	684	678
Hawaii	<sup>3</sup> 92	145	150	Oregon	299	509	505
Idaho	358	797	817	Pennsylvania	<sup>3</sup> 1,250	1,710	1,760
Illinois	913	1,220	1,220	Rhode Island	<sup>3</sup> 20	44	44
Indiana	695	982	997	South Carolina	<sup>3</sup> 551	735	562
Iowa	503	696	674	South Dakota	233	223	227
Kansas	629	973	967	Tennessee	737	856	842
Kentucky	501	806	913	Texas	1,950	2,980	2,900
Louisiana	325	481	385	Utah	1,430	3,960	3,940
Maine	<sup>3</sup> 96	158	156	Vermont	<sup>3</sup> 67	84	93
Maryland	<sup>3</sup> 358	653	725	Virginia	710	1,270	1,100
Massachusetts	<sup>3</sup> 200	294	433	Washington	607	718	680
Michigan	1,640	1,910	1,910	West Virginia	172	230	207
Minnesota	1,460	2,540	2,550	Wisconsin	<sup>3</sup> 772	566	552
Mississippi	149	270	257	Wyoming	978	1,590	1,670
Missouri	1,370	2,070	2,210				

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

Source: U.S. Geological Survey, *Minerals Yearbook*, annual, and *Mineral Commodities Summaries*, annual. See also <<http://minerals.er.usgs.gov/minerals/pubs/mcs/2008/mcs2008.pdf>> (released 30 January 2008).

**Table 867. Principal Fuels, Nonmetals, and Metals—World Production and the U.S. Share: 1990 to 2007**

[In millions of short tons (5,354 represents 5,354,000,000), except as indicated; see Appendix IV]

Mineral	World production				Percent U.S. of world				
	Unit	1990	2000	2005	2007	1990	2000	2005	2007
<b>Fuels:</b> <sup>1</sup>									
Coal	Mil. sh. tons	5,354	4,949	6,490	(NA)	19	22	17	(NA)
Petroleum (crude)	Bil. bbl.	22.1	25.0	26.9	(NA)	12	8	7	(NA)
Natural gas (dry, marketable)	Tril. cu. ft.	73.6	88.3	101.5	(NA)	24	22	18	(NA)
Natural gas plant liquids	Bil. bbl.	1.7	2.4	2.8	(NA)	34	30	22	(NA)
<b>Nonmetals:</b>									
Asbestos	1,000 metric tons	4,010	2,110	2,320	2,290	(D)	—	—	—
Barite	1,000 metric tons	5,770	6,470	8,110	8,000	7	6	6	7
Feldspar	1,000 metric tons	5,990	9,580	15,100	16,500	11	8	5	5
Fluorspar	1,000 metric tons	5,120	4,470	5,280	5,310	1	—	—	—
Gypsum	Mil. metric tons	104	106	122	127	15	19	21	22
Mica (incl. scrap)	1,000 metric tons	217	328	294	360	50	31	27	20
Nitrogen (N content)	Mil. metric tons	98	108	122	125	13	11	7	7
Phosphate rock (gross wt.)	Mil. metric tons	162	132	147	147	29	30	25	20
Potash (K <sub>2</sub> O equivalent)	Mil. metric tons	28	27	31	33	6	4	4	4
Sulfur, elemental basis	Mil. metric tons	58	58	66	66	20	19	14	13
<b>Metals, mine basis:</b>									
Bauxite	Mil. metric tons	113	136	172	190	(D)	(NA)	(NA)	NA
Copper	1,000 metric tons	8,950	13,200	15,000	15,600	18	11	8	8
Gold	Metric tons	2,180	2,590	2,470	2,500	14	14	10	10
Iron ore (gross wt.)	Mil. metric tons	983	1,070	1,540	1,900	6	6	4	3
Lead <sup>2</sup>	1,000 metric tons	3,370	3,184	3,450	3,550	15	15	13	12
Mercury	Metric tons	4,520	1,350	1,680	1,500	12	(NA)	(D)	(D)
Molybdenum	1,000 metric tons	111	133	185	187	55	31	31	32
Nickel <sup>2</sup>	1,000 metric tons	974	1,270	1,480	1,660	(Z)	(Z)	—	—
Silver	1,000 metric tons	16	18	19	21	13	11	6	6
Tantalum concentrates (Ta content)	Metric tons	344	1,040	1,260	1,400	—	—	—	—
Titanium mineral concentrates (titanium content) <sup>3</sup>	1,000 metric tons	3,600	(NA)	5,200	6,100	(D)	(NA)	6	5
Tungsten <sup>2</sup>	1,000 metric tons	52	44	88	90	(D)	(NA)	—	(D)
Vanadium <sup>2</sup>	1,000 metric tons	33	56	58	59	6	—	—	—
Zinc <sup>2</sup>	1,000 metric tons	7,150	8,788	9,930	10,500	8	10	8	7
<b>Metals, smelter basis:</b>									
Aluminum	1,000 metric tons	19,300	24,400	31,900	38,000	21	15	8	7
Cadmium	1,000 metric tons	20	20	20	20	8	10	7	(D)
Copper	1,000 metric tons	9,470	11,000	13,600	14,200	15	9	4	4
Iron, pig	Mil. metric tons	539	573	825	940	9	8	4	4
Lead <sup>4</sup>	1,000 metric tons	5,950	6,580	7,700	8,030	22	22	17	16
Magnesium <sup>5</sup>	1,000 metric tons	354	428	622	670	39	(D)	(D)	(D)
Raw Steel	Mil. metric tons	777	845	1,130	1,320	12	12	8	7
Tin <sup>6</sup>	1,000 metric tons	220	271	290	300	—	2	—	—
Zinc	1,000 metric tons	7,180	9,137	10,400	10,600	5	4	3	3

— Represents or rounds to zero. D Withheld to avoid disclosing company data. NA Not available. Z Less than half the unit of measure. <sup>1</sup> Source: Energy Information Administration, *International Energy Annual*. <sup>2</sup> Content of ore and concentrate. <sup>3</sup> Before 2005, excludes U.S. production. <sup>4</sup> Refinery production. <sup>5</sup> Primary production; no smelter processing necessary. <sup>6</sup> Production from primary sources only.

Source: Nonfuels, through 1990, U.S. Bureau of Mines, thereafter, U.S. Geological Survey, *Minerals Yearbook*, annual, and *Mineral Commodities Summaries*, annual; fuels, U.S. Energy Information Administration, "International Energy Annual"; <<http://minerals.er.usgs.gov/minerals/pubs/mcs/2008/mcs2008.pdf>> (released 30 January 2008).

**Table 868. Net U.S. Imports of Selected Minerals and Metals as Percent of Apparent Consumption: 1980 to 2007**

[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	2003	2004	2005	2006	2007 <sup>1</sup>
Bauxite <sup>2</sup>	(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
Mica (sheet)	100	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	91	92	93	90	94
Barite	44	71	65	84	77	78	84	81	83
Titanium	(NA)	(NA)	70	79	68	58	71	71	82
Potash	65	68	75	80	80	80	80	79	81
Tin	79	71	84	88	89	92	78	79	79
Cobalt	93	84	79	78	79	77	83	82	78
Zinc	60	64	71	72	70	72	68	78	73
Tungsten	53	81	90	66	63	73	68	68	70
Chromium	67	80	75	77	57	64	59	64	62
Silver	7	(NA)	(NA)	43	65	54	54	38	55
Nickel	76	64	60	55	45	49	48	49	17
Iron and steel	13	13	21	18	10	14	15	17	12
Iron ore	25	21	14	10	12	6	4	8	—

— Represents or rounds to zero. D Withheld to avoid disclosure. NA Not available. <sup>1</sup> Preliminary. <sup>2</sup> Includes alumina.

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 869. Petroleum Industry—Summary: 1990 to 2007**

[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	2002	2003	2004	2005	2006	2007 <sup>1</sup>
Crude oil producing wells (Dec. 31)	1,000	602	574	534	529	513	510	498	497	500
Daily output per well <sup>2</sup>	Bbl.	12.2	11.4	10.9	10.9	11.1	10.7	10.4	10.3	10.2
Completed wells drilled, total	1,000	26.92	18.19	25.64	24.34	28.24	30.21	37.41	45.50	49.15
Crude oil	1,000	11.78	7.28	7.32	5.99	7.14	7.44	9.22	11.76	13.84
Gas	1,000	10.43	7.87	15.63	16.03	18.67	20.49	25.48	30.03	31.25
Dry	1,000	4.70	3.04	2.70	2.33	2.42	2.27	2.71	3.71	4.05
Average depth per well	Feet	4,653	5,523	4,723	5,125	5,408	5,482	5,511	5,695	6,379
Average cost per well	\$1,000	384	513	755	1,054	1,200	1,673	1,721	2,102	(NA)
Average cost per foot	Dollars	76.07	87.22	142.16	195.31	216.27	292.57	306.50	378.03	(NA)
Crude oil production, total	Mil. bbl.	2,685	2,394	2,131	2,097	2,073	1,983	1,890	1,862	1,862
Value at wells <sup>3,4</sup>	Bil. dol.	53.77	35.00	56.93	47.21	57.14	72.93	95.03	111.16	123.89
Average price per barrel	Dollars	20.03	14.62	26.72	22.51	27.56	36.77	50.28	59.69	66.52
Lower 48 states <sup>5</sup>	Mil. bbl.	2,037	1,853	1,776	1,738	1,718	1,651	1,575	1,592	1,600
Alaska	Mil. bbl.	647	542	355	359	356	332	315	270	262
Onshore	Mil. bbl.	2,290	1,838	1,482	1,366	1,339	1,294	1,265	1,241	1,233
Offshore	Mil. bbl.	395	557	649	731	735	689	625	621	629
Imports: Crude oil <sup>4,6</sup>	Mil. bbl.	2,151	2,639	3,320	3,336	3,528	3,692	3,696	3,693	3,656
Refined petroleum products	Mil. bbl.	775	586	874	872	949	1,119	1,310	1,310	1,249
Exports: Crude oil	Mil. bbl.	39.7	34.5	18.4	3.3	4.5	9.8	11.6	9.0	10.0
Proved reserves	Bil. bbl.	26.3	22.4	22.0	22.7	21.9	21.4	21.8	21.0	(NA)
Operable refineries	Number	205	175	158	153	149	149	148	149	149
Capacity (Jan. 1)	Mil. bbl.	5,684	5,633	6,027	6,127	6,116	6,166	6,251	6,329	6,367
Refinery input, total	Mil. bbl.	5,325	5,555	5,964	5,955	6,027	6,135	6,136	6,198	6,189
Crude oil <sup>6</sup>	Mil. bbl.	4,894	5,100	5,514	5,456	5,586	5,664	5,555	5,563	5,529
Natural gas plant liquids	Mil. bbl.	171	172	139	156	153	154	161	183	181
Other liquids	Mil. bbl.	260	283	311	344	289	317	420	452	479
Refinery output, total <sup>7</sup>	Mil. bbl.	5,574	5,838	6,311	6,305	6,383	6,520	6,497	6,561	6,556
Motor gasoline	Mil. bbl.	2,540	2,722	2,910	2,987	2,991	3,025	3,036	3,053	3,045
Jet fuel	Mil. bbl.	543	517	588	553	543	566	564	541	519
Distillate fuel oil	Mil. bbl.	1,067	1,152	1,310	1,311	1,353	1,396	1,443	1,475	1,508
Residual fuel oil	Mil. bbl.	347	288	255	219	241	240	229	232	244
Liquefied petroleum gases	Mil. bbl.	182	239	258	245	240	236	209	229	236
Utilization rate	Percent	87.1	92.0	92.6	90.7	92.6	93.0	90.6	89.7	88.5

NA Not available. <sup>1</sup> Preliminary. <sup>2</sup> Based on number of wells producing at end of year. <sup>3</sup> Values based on domestic first purchase price. <sup>4</sup> Includes lease condensate. <sup>5</sup> Excluding Alaska and Hawaii. <sup>6</sup> Includes imports for the Strategic Petroleum Reserve. <sup>7</sup> Includes other products not shown separately.

Source: U.S. Energy Information Administration, *Annual Energy Review 2007*. See also <<http://www.eia.doe.gov/emeu/aer/contents.html>>.

**Table 870. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products: 2006**

[In millions of barrels (1,862.3 represents 1,862,300,000). Minus sign (-) indicates decrease]

Commodity	Supply				Disposition				Ending stocks
	Field production	Refinery and blender net production	Imports	Adjustments <sup>1</sup>	Stock change	Refinery and blender net inputs	Exports	Products supplied <sup>2</sup>	
Crude oil	1,862.3	(NA)	3,693.1	9.6	-7.4	5,563.4	9.0	-	1,000.9
Commercial	1,862.3	(NA)	3,690.0	9.6	-11.4	(NA)	9.0	(NA)	312.3
Alaskan	270.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Lower 48 states	1,591.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
SPR	(NA)	(NA)	3.1	(NA)	4.1	(NA)	(NA)	(NA)	688.6
Imports by SPR	(NA)	(NA)	-	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Imports into SPR by others	(NA)	(NA)	3.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Natural gas liquids and LRGs	634.7	229.0	131.2	(NA)	7.7	182.9	24.8	779.5	125.1
Pentanes plus	95.8	(NA)	9.9	(NA)	4.0	67.3	4.2	30.3	12.0
Liquefied petroleum gases	538.8	229.0	121.3	(NA)	3.7	115.6	20.6	749.1	113.1
Ethane/ethylene	246.8	6.8	0.2	(NA)	-4.4	-	-	258.1	20.3
Propane/propylene	183.0	198.2	83.1	(NA)	4.4	-	16.5	443.4	61.6
Normal butane/butylene	49.6	24.6	25.6	(NA)	4.0	49.2	4.1	42.2	24.8
Isobutane/isobutylene	59.4	-0.3	12.5	(NA)	-0.2	66.4	-	5.4	6.4
Finished motor gasoline	(NA)	3,052.8	173.4	183.0	-19.7	(NA)	51.8	3,377.2	116.1
Kerosene-type jet fuel	(NA)	540.6	67.7	(NA)	-2.6	(NA)	14.9	596.0	39.1
Distillate fuel oil <sup>3</sup>	(NA)	1,471.7	133.1	-	7.6	(NA)	78.5	1,521.7	143.7

- Represents zero. NA Not available. <sup>1</sup> 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. <sup>2</sup> 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. <sup>3</sup> 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/pub/oilgas/petroleum/datapublications/petroleumsupplyannual/psavolume1/current/pdf/table01.pdf>>.

**Table 871. Crude Petroleum and Natural Gas—Production and Value by Major Producing States: 2004 to 2006**

[1,983 represents 1,983,000,000 barrels]

State	Crude petroleum						Natural gas marketed production <sup>1</sup>					
	Quantity (mil. bbl.)			Value (mil. dol.)			Quantity (bil. cu. ft.)			Value (mil. dol.)		
	2004	2005	2006	2004	2005	2006	2004	2005	2006	2004	2005	2006
<b>Total <sup>2</sup></b> . . . . .	<b>1,983</b>	<b>1,890</b>	<b>1,862</b>	<b>72,926</b>	<b>95,035</b>	<b>111,158</b>	<b>19,517</b>	<b>18,927</b>	<b>19,382</b>	<b>106,522</b>	<b>138,751</b>	<b>123,993</b>
AL	7	8	8	289	419	476	316	297	286	2,103	2,751	2,168
AK	332	315	270	23,868	31,933	15,380	472	487	445	1,612	2,313	2,576
AR	7	6	6	247	323	358	187	191	193	1,063	1,383	1,244
CA	240	230	223	8,280	10,842	12,813	320	318	315	1,808	2,365	2,039
CO	22	23	23	892	1,263	1,492	1,079	1,133	1,203	5,622	8,418	7,362
FL	3	3	2	(NA)	(NA)	(NA)	3	3	3	(NA)	(NA)	(NA)
IL	11	10	10	426	523	616	(Z)	(Z)	(Z)	(NA)	(NA)	(NA)
IN	2	2	2	67	88	103	3	3	3	21	29	18
KS	34	34	36	1,327	1,806	2,165	397	377	371	1,961	2,456	2,082
KY	3	3	2	94	125	136	94	93	95	495	634	842
LA	83	75	74	3,376	4,080	4,745	1,353	1,296	1,361	8,071	11,305	9,429
MI	6	6	5	251	298	310	260	261	365	1,000	1,383	1,414
MS	17	18	17	635	877	1,030	63	53	61	369	452	414
MT	25	33	36	953	1,730	2,056	97	108	113	437	709	624
NE	3	2	2	96	126	134	1	1	1	5	5	(NA)
NM	64	61	60	2,521	3,205	3,693	1,633	1,645	1,609	8,119	11,369	9,947
NY	(Z)	(Z)	(Z)	(NA)	(NA)	(NA)	46	55	56	321	429	399
ND	31	36	40	1,224	1,868	2,263	55	53	55	315	441	361
OH	6	6	5	221	302	341	90	84	86	602	754	669
OK	63	62	63	2,497	3,384	3,966	1,656	1,639	1,689	9,146	11,821	10,671
PA	3	4	4	100	215	232	197	169	158	(NA)	(NA)	(NA)
TX	393	388	397	15,239	20,396	24,354	5,067	5,276	5,513	29,561	39,813	36,365
UT	15	17	18	576	899	1,069	278	301	348	1,458	2,157	1,984
WV	1	2	2	51	84	110	197	221	226	(NA)	(NA)	(NA)
WY	52	52	53	1,812	2,356	2,817	1,592	1,639	1,816	7,893	11,245	10,627
Federal offshore	130	131	121	40,652	80,118	93,384	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Lower 48 states	1,651	1,575	1,592	49,058	63,101	95,778	19,046	18,440	18,937	104,910	136,437	121,417

NA Not available. Z Less than 500,000 barrels or 500 million cubic feet. <sup>1</sup> Excludes nonhydrocarbon gases. <sup>2</sup> Includes other states not shown separately. State production does not include state offshore production. U.S. level totals shown in Tables 869 and 875 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 872. Crude Oil, Natural Gas, and Natural Gas Liquids—Reserves by State: 2004 to 2006**

[21,371 mil. bbl. represents 21,371,000,000 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	2004			2005			2006		
	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.)
<b>United States <sup>1</sup></b> . . . . .	<b>21,371</b>	<b>192,513</b>	<b>7,928</b>	<b>21,757</b>	<b>204,385</b>	<b>8,165</b>	<b>20,972</b>	<b>211,085</b>	<b>8,472</b>
Alabama	53	4,120	50	55	3,965	61	45	3,911	56
Alaska	4,327	8,407	369	4,171	8,171	352	3,879	10,245	338
Arkansas	51	1,835	3	40	1,964	3	37	2,269	4
California	3,376	2,634	122	3,435	3,228	137	3,389	2,794	132
Colorado	225	14,743	465	250	16,596	484	274	17,149	478
Florida	65	78	12	59	77	7	38	45	3
Illinois	92	(NA)	(NA)	95	(NA)	(NA)	89	(NA)	(NA)
Indiana	11	(NA)	(NA)	16	(NA)	(NA)	12	(NA)	(NA)
Kansas	245	4,652	271	281	4,314	224	263	3,931	209
Kentucky	27	1,880	72	23	2,151	70	25	2,227	105
Louisiana	427	9,588	263	432	10,447	292	428	10,474	280
Michigan	53	3,091	48	62	2,910	39	63	3,065	42
Mississippi	178	691	6	189	755	7	186	813	8
Montana	364	995	6	427	986	9	419	1,057	10
Nebraska	15	(NA)	(NA)	16	(NA)	(NA)	14	(NA)	(NA)
New Mexico	669	18,512	864	690	18,201	840	705	17,934	861
New York	(NA)	324	(NA)	(NA)	349	(NA)	(NA)	363	(NA)
North Dakota	389	417	43	418	453	49	412	479	55
Ohio	49	974	(NA)	46	898	(NA)	49	975	(NA)
Oklahoma	570	16,238	790	630	17,123	839	569	17,464	892
Pennsylvania	12	2,361	(NA)	14	2,782	(NA)	20	3,050	(NA)
Texas	4,613	49,955	2,801	4,919	56,507	3,080	4,871	61,836	3,335
Utah	215	3,866	( <sup>c</sup> )	256	4,295	( <sup>c</sup> )	334	5,146	( <sup>c</sup> )
Virginia	(NA)	1,742	(NA)	(NA)	2,018	(NA)	(NA)	2,302	(NA)
West Virginia	11	3,397	85	21	4,459	85	23	4,509	110
Wyoming	628	22,632	<sup>3</sup> 927	704	23,774	<sup>3</sup> 879	706	23,549	<sup>3</sup> 887
Federal offshore	4,691	19,271	721	4,483	17,831	696	4,096	15,360	653
Lower 48 states	17,044	184,106	7,559	17,586	196,214	7,813	17,093	200,840	8,134

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

Source: Energy Information Administration, "U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 2006 Annual Report"; <[http://www.eia.doe.gov/oil\\_gas/natural\\_gas/data\\_publications/cr.html](http://www.eia.doe.gov/oil_gas/natural_gas/data_publications/crude_oil_natural_gas_reserves/cr.html)> (released 31 December 2007).

**Table 873. Federal Offshore Leasing, Exploration, Production, and Revenue: 1990 to 2007**

[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	2003	2004	2005	2006	2007
Tracts offered	Number	10,459	10,995	7,992	12,147	9,123	11,447	7,905	4,992
Tracts leased	Number	825	835	553	957	888	989	763	360
Acres offered	Millions	56.79	59.70	42.89	64.77	48.35	61.08	42.24	26.63
Acres leased	Millions	4.30	4.34	2.92	5.03	4.69	5.24	4.12	2.01
Bonus paid for leased tracts	Bil. dol.	0.6	0.4	0.3	0.4	0.6	0.7	0.9	0.3
New wells being drilled:									
Active	Number	120	124	224	135	156	242	209	164
Suspended	Number	266	247	146	48	56	67	61	76
Cumulative wells (since 1953):									
Wells completed	Number	13,167	13,475	13,718	18,424	18,260	18,001	17,801	17,429
Wells plugged and abandoned	Number	14,677	18,008	22,814	32,251	33,746	34,878	36,407	38,351
Revenue, total <sup>1</sup>	Bil. dol.	3.4	2.7	5.2	5.9	5.3	6.3	7.6	7.0
Bonuses	Bil. dol.	0.8	0.4	0.4	1.1	0.5	0.6	0.9	0.4
Oil and gas royalties <sup>1</sup>	Bil. dol.	2.6	2.1	4.1	4.5	4.6	5.5	6.5	6.4
Rentals	Bil. dol.	0.09	0.09	0.21	0.25	0.21	0.22	0.22	0.20
Sales value <sup>2</sup>	Bil. dol.	17.0	13.8	27.4	29.0	30.6	37.2	45.6	45.5
Oil	Bil. dol.	7.0	6.3	11.5	8.3	8.4	15.4	24.2	27.8
Natural gas	Bil. dol.	9.5	7.5	15.9	20.7	22.2	21.8	21.4	17.7
Sales volume: <sup>3</sup>									
Oil	Mil. bbls.	324	409	566	310	248	332	391	471
Natural gas	Bil. cu. ft.	5,093	4,692	4,723	3,501	3,941	3,504	2,581	2,547

<sup>1</sup> Includes condensate royalties. <sup>2</sup> Production value is value at time of production, not current value. <sup>3</sup> 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 874. Oil and Gas Extraction Industry—Establishments, Employees, and Payroll by State: 2005**

[6,612,547 represents 6,612,547,000. 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) <sup>1</sup>			State	Natural gas liquid extraction (211112) <sup>1</sup>		
	Establishments	Number of employees <sup>2</sup>	Annual payroll (\$1,000)		Establishments	Number of employees <sup>2</sup>	Annual payroll (\$1,000)
<b>United States . . .</b>	<b>6,948</b>	<b>72,350</b>	<b>6,612,547</b>	<b>United States . . .</b>	<b>442</b>	<b>13,212</b>	<b>1,130,942</b>
Colorado . . . . .	346	3,474	405,001	Colorado . . . . .	23	586	83,372
Florida . . . . .	26	75	4,967	Florida . . . . .	11	72	4,606
Kansas . . . . .	372	2,429	124,673	Kansas . . . . .	17	232	14,638
Louisiana . . . . .	350	7,341	683,139	Louisiana . . . . .	47	2,939	189,268
Michigan . . . . .	91	774	50,642	Michigan . . . . .	10	256	12,518
New Mexico . . . . .	157	1,899	143,765	New Mexico . . . . .	25	625	43,002
Ohio . . . . .	205	1,347	64,956	Ohio . . . . .	4	8	318
Oklahoma . . . . .	1,043	9,407	772,208	Oklahoma . . . . .	33	471	26,739
Texas . . . . .	2,841	28,888	3,064,619	Texas . . . . .	117	5,236	547,013
Utah . . . . .	46	913	58,334	Utah . . . . .	10	114	7,656
Wyoming . . . . .	174	2,003	137,921	Wyoming . . . . .	31	660	48,195

<sup>1</sup> Based on North American Industry Classification System, 2005. <sup>2</sup> 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/epcd/cbp/view/cbpview.html>>.

**Table 875. Natural Gas—Supply, Consumption, Reserves, and Marketed Production: 1990 to 2007**

[269 represents 269,000]

Item	Unit	1990	1995	2000	2002	2003	2004	2005	2006	2007
Producing wells (year-end)	1,000	269	299	342	388	393	406	426	449	427
Production value at wells	Bil. of dol.	31.8	30.2	74.3	58.7	97.5	106.6	138.7	124.0	128.8
Avg. per 1,000 cu. ft.	Dollars	1.71	1.55	3.68	2.95	4.88	5.46	7.33	6.40	6.39
Proved reserves <sup>1</sup>	Tril. cu. ft.	169	165	177	187	189	193	204	211	(NA)
<b>Marketed production<sup>2</sup></b>	<b>Bil. cu. ft.</b>	<b>18,594</b>	<b>19,506</b>	<b>20,198</b>	<b>19,885</b>	<b>19,974</b>	<b>19,517</b>	<b>18,927</b>	<b>19,382</b>	<b>20,151</b>
Minus: Extraction losses <sup>3</sup>	Bil. cu. ft.	784	908	1,016	957	876	927	876	906	874
Equals: Dry production	Bil. cu. ft.	17,810	18,599	19,182	18,928	19,099	18,591	18,051	18,476	19,278
Plus: Supplemental gas supplies	Bil. cu. ft.	123	110	90	68	68	60	64	66	61
Equals: Dry production with supplemental gas	Bil. cu. ft.	17,932	18,709	19,272	18,996	19,166	18,651	18,114	18,542	19,338
Plus: Withdrawals from storage	Bil. cu. ft.	1,986	3,025	3,550	3,180	3,161	3,088	3,107	2,527	3,321
Plus: Imports	Bil. cu. ft.	1,532	2,841	3,782	4,015	3,944	4,259	4,341	4,186	4,602
Plus: Balancing item <sup>4</sup>	Bil. cu. ft.	307	396	-306	45	44	448	232	85	-253
Equals: Total supply	Bil. cu. ft.	21,758	24,971	26,298	26,237	26,314	26,445	25,794	25,340	27,007
Minus: Exports	Bil. cu. ft.	86	154	244	516	680	854	729	724	809
Minus: Additions to storage <sup>5</sup>	Bil. cu. ft.	2,499	2,610	2,721	2,713	3,358	3,202	3,055	2,963	3,144
<b>Equals: Consumption, total</b>	<b>Bil. cu. ft.</b>	<b>19,174</b>	<b>22,207</b>	<b>23,333</b>	<b>23,007</b>	<b>22,277</b>	<b>22,389</b>	<b>22,011</b>	<b>21,653</b>	<b>23,055</b>
Lease and plant fuel	Bil. cu. ft.	1,236	1,220	1,151	1,113	1,122	1,098	1,112	1,124	1,168
Pipeline fuel	Bil. cu. ft.	660	700	642	667	591	566	584	584	622
Residential	Bil. cu. ft.	4,391	4,850	4,996	4,889	5,079	4,869	4,827	4,368	4,724
Commercial <sup>6</sup>	Bil. cu. ft.	2,623	3,031	3,182	3,144	3,179	3,129	2,999	2,835	3,008
Industrial	Bil. cu. ft.	8,255	9,384	9,293	8,620	8,273	8,341	7,709	7,618	7,800
Vehicle fuel	Bil. cu. ft.	(Z)	5	13	15	18	21	23	25	26
Electric power sector	Bil. cu. ft.	3,245	4,237	5,206	5,672	5,135	5,464	5,869	6,222	6,874
World production (dry)	Tril. cu. ft.	73.6	78.0	88.3	92.2	95.4	98.5	101.5	(NA)	(NA)
U.S. production (dry)	Tril. cu. ft.	17.8	18.6	19.2	18.9	19.1	18.6	18.1	(NA)	(NA)
Percent U.S. of world	Percent	24.2	23.9	21.7	20.5	20.0	18.9	17.8	(NA)	(NA)

Z Less than 500 million cubic feet. NA Not available. <sup>1</sup> Estimated, end of year. Source: U.S. Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, annual. <sup>2</sup> Marketed production includes gross withdrawals from reservoirs less quantities used for reservoir repressuring and quantities vented or flared. Excludes nonhydrocarbon gases subsequently removed. <sup>3</sup> Volumetric reduction in natural gas resulting from the removal of natural gas plant liquids, which are transferred to petroleum supply. <sup>4</sup> 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). <sup>5</sup> Underground storage. Through 2004, includes liquefied natural gas (LNG) storage in above-ground tanks. <sup>6</sup> 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"; and "Natural Gas Annual"; <<http://www.eia.doe.gov>>.

**Table 876. Natural Gas Plant Liquids—Production and Value: 1990 to 2006**

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

Item	Unit	1990	1995	2000	2001	2002	2003	2004	2005	2006
Field production <sup>1</sup>	Mil. bbl.	566	643	699	682	686	686	662	627	635
Pentanes plus	Mil. bbl.	112	122	112	112	109	109	101	97	96
Liquefied petroleum gases	Mil. bbl.	454	521	587	570	577	577	561	529	539
Natural gas processed	Tril. cu. ft.	15	17	17	17	16	15	15	15	15

<sup>1</sup> 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 877. Coal Supply, Disposition, and Prices: 2000 to 2007**

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

Item	2000	2002	2003	2004	2005	2006	2007
<b>United States, total supply</b> . . . . .	<b>1,073.6</b>	<b>1,094.3</b>	<b>1,071.8</b>	<b>1,112.1</b>	<b>1,131.5</b>	<b>1,162.7</b>	<b>1,145.6</b>
Consumption by sector:							
Total	1,084.1	1,066.4	1,094.9	1,107.3	1,126.0	1,112.3	1,128.8
Electric power	985.8	977.5	1,005.1	1,016.3	1,037.5	1,026.5	1,046.4
Coke plants	28.9	23.7	24.2	23.7	23.4	23.0	22.7
Other industrial plants	65.2	60.7	61.3	62.2	60.3	59.5	56.5
Combined heat and power (CHP)	(NA)	26.2	24.8	26.6	25.9	25.3	24.1
Noncombined heat and power	(NA)	34.5	36.4	35.6	34.5	34.2	32.4
Residential/commercial users	4.1	4.4	4.2	5.1	4.7	3.2	3.2
Year-end coal stocks:							
Total	140.0	192.1	165.5	154.0	144.3	86.9	189.4
Electric power	102.0	141.7	121.6	106.7	101.1	141.0	151.1
Coke plants	1.5	1.4	0.9	1.3	2.6	2.9	1.9
Other industrial plants	4.6	5.8	4.7	4.8	5.6	6.5	5.6
Producers/distributors	31.9	43.3	38.3	41.2	35.0	36.5	30.8
U.S. coal trade:							
Net exports	46.0	22.7	18.0	20.7	19.5	13.4	22.8
Exports	58.5	39.6	43.0	48.0	49.9	49.6	59.2
Steam coal	25.7	18.1	20.9	21.2	21.3	22.1	27.0
Metallurgical coal	32.8	21.5	22.1	26.8	28.7	27.5	32.2
Imports	12.5	16.9	25.0	27.3	30.5	36.2	36.3
Average delivered price (dollars per short ton):							
Electric utilities <sup>1</sup>	24.28	24.74	25.82	27.30	31.22	34.26	36.08
Independent power producers <sup>1</sup>	(NA)	27.96	26.2	27.27	30.39	3.04	33.47
Coke plants	44.38	50.67	50.63	61.50	83.79	92.87	94.97
Other industrial plants	31.46	35.49	34.70	39.30	47.63	51.67	54.42
Average free alongside ship (f.a.s.):							
Exports	34.90	40.44	35.98	54.11	67.10	70.93	70.25
Steam coal	29.67	34.51	26.94	42.03	47.64	46.25	47.90
Metallurgical coal	38.99	45.41	44.55	63.63	81.56	90.81	88.99
Imports	30.10	35.51	31.45	37.52	46.71	49.10	47.64

 NA Not available. <sup>1</sup> Average delivered price is through November 2007.

 Source: U.S. Energy Information Administration, "U.S. Coal Supply and Demand: 2007 Review," annual; <<http://www.eia.doe.gov/cneat/coal/page/special/feature.html>> (released 16 April 2008).

**Table 878. Coal and Coke—Summary: 1990 to 2007**

[In millions of short tons (1,029 represents 1,029,000,000), 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	2003	2004	2005	2006	2007
<b>COAL</b>									
<b>Coal production, total</b> <sup>1, 2</sup> . . .	<b>Mil. sh. tons</b> . . .	<b>1,029</b>	<b>1,033</b>	<b>1,074</b>	<b>1,072</b>	<b>1,112</b>	<b>1,131</b>	<b>1,163</b>	<b>1,146</b>
Value <sup>3</sup> . . . . .	Bil. dol. . . . .	22.39	19.45	18.02	19.13	22.16	26.69	29.25	29.10
Anthracite production <sup>2</sup> . . . . .	Mil. sh. tons . . .	3.5	4.7	4.6	1.3	1.7	1.7	1.5	1.6
Bituminous coal and lignite <sup>4</sup> . . . . .	Mil. sh. tons . . .	1,026	1,028	1,069	1,070	1,110	1,130	1,161	1,144
Underground . . . . .	Mil. sh. tons . . .	425	396	374	353	368	369	359	351
Surface <sup>2</sup> . . . . .	Mil. sh. tons . . .	605	637	700	719	745	763	804	794
Exports . . . . .	Mil. sh. tons . . .	106	89	58	43	48	50	50	59
Imports . . . . .	Mil. sh. tons . . .	3	9	13	25	27	30	36	36
Consumption <sup>5</sup> . . . . .	Mil. sh. tons . . .	904	962	1,084	1,095	1,107	1,126	1,112	1,129
Electric power sector . . . . .	Mil. sh. tons . . .	783	850	986	1,005	1,016	1,037	1,027	1,046
Industrial . . . . .	Mil. sh. tons . . .	115	106	94	86	86	84	82	79
Number of mines . . . . .	Number . . . . .	3,243	2,104	1,453	1,316	1,379	1,415	1,438	(NA)
Daily employment . . . . .	1,000 . . . . .	131	90	72	71	74	79	83	(NA)
<b>Production, by state:</b>									
Alabama . . . . .	Mil. sh. tons . . .	29	25	19	20	22	21	19	(NA)
Illinois . . . . .	Mil. sh. tons . . .	60	48	33	32	32	32	33	(NA)
Indiana . . . . .	Mil. sh. tons . . .	36	26	28	35	35	34	35	(NA)
Kentucky . . . . .	Mil. sh. tons . . .	173	154	131	113	114	120	121	(NA)
Montana . . . . .	Mil. sh. tons . . .	38	39	38	37	40	40	42	(NA)
Ohio . . . . .	Mil. sh. tons . . .	35	26	22	22	23	25	23	(NA)
Pennsylvania . . . . .	Mil. sh. tons . . .	71	62	75	64	66	67	66	(NA)
Virginia . . . . .	Mil. sh. tons . . .	47	34	33	32	31	28	30	(NA)
West Virginia . . . . .	Mil. sh. tons . . .	169	163	158	140	148	154	152	(NA)
Wyoming . . . . .	Mil. sh. tons . . .	184	264	339	376	396	404	447	(NA)
Other states . . . . .	Mil. sh. tons . . .	187	192	197	202	204	206	196	1,146
World production . . . . .	Mil. sh. tons . . .	5,354	5,105	4,949	5,657	6,097	6,490	(NA)	(NA)
Percent U.S. of world . . . . .	Percent . . . . .	19.2	20.2	21.7	18.9	18.2	17.4	(NA)	(NA)
<b>COKE</b>									
Production . . . . .	Mil. sh. tons . . .	27.6	23.7	20.8	17.2	16.9	16.7	16.4	16.2
Imports . . . . .	Mil. sh. tons . . .	0.8	3.8	3.8	2.8	6.9	3.5	4.1	2.5
Exports . . . . .	Mil. sh. tons . . .	0.6	1.4	1.1	0.7	1.3	1.7	1.6	1.4
Consumption <sup>6</sup> . . . . .	Mil. sh. tons . . .	27.8	25.8	23.2	19.4	22.5	18.2	18.8	17.3

 NA Not available. <sup>1</sup> Includes bituminous coal, subbituminous coal, lignite, and anthracite. <sup>2</sup> Beginning 2002, includes a small amount of refuse recovery. <sup>3</sup> 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. <sup>4</sup> Includes subbituminous. <sup>5</sup> Includes some categories not shown separately. <sup>6</sup> 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", and "Annual Coal Report"; <<http://www.eia.doe.gov>>.

**Table 879. Demonstrated Coal Reserves by Major Producing State: 2005 and 2006**

[In millions of short tons (492,935 represents 492,935,000,000). 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	2005			2006		
	Total reserves	Method of mining		Total reserves	Method of mining	
		Under-ground	Surface		Under-ground	Surface
<b>United States <sup>1</sup></b>	<b>492,935</b>	<b>334,876</b>	<b>158,059</b>	<b>491,076</b>	<b>333,991</b>	<b>157,085</b>
Alabama	4,205	1,007	3,198	4,174	986	3,188
Alaska	6,110	5,423	687	6,108	5,423	685
Arkansas	417	272	144	417	272	144
Colorado	16,223	11,461	4,762	16,158	11,397	4,761
Illinois	104,469	87,919	16,550	104,408	87,865	16,543
Indiana	9,483	8,741	742	9,431	8,720	711
Iowa	2,189	1,732	457	2,189	1,732	457
Kansas	972	—	972	972	—	972
Kentucky	30,020	17,055	12,965	29,814	16,909	12,906
Kentucky, Eastern	10,516	1,178	9,337	10,362	1,080	9,282
Kentucky, Western	19,504	15,877	3,628	19,452	15,829	3,624
Maryland	643	578	65	634	572	62
Missouri	5,989	1,479	4,510	5,989	1,479	4,510
Montana	119,230	70,958	48,272	119,177	70,957	48,220
New Mexico	12,131	6,156	5,975	12,093	6,142	5,951
North Dakota	9,053	—	9,053	9,015	—	9,015
Ohio	23,300	17,546	5,754	23,260	17,515	5,745
Oklahoma	1,554	1,231	323	1,551	1,230	321
Pennsylvania	27,472	23,221	4,251	27,349	23,113	4,236
Anthracite	7,198	3,844	3,355	7,196	3,843	3,353
Bituminous	20,274	19,377	896	20,153	19,270	883
Tennessee	774	510	264	770	508	262
Texas	12,385	—	12,385	12,328	—	12,328
Utah	5,396	5,128	268	5,344	5,076	268
Virginia	1,693	1,130	562	1,642	1,093	548
Washington	1,340	1,332	8	1,340	1,332	8
West Virginia	32,960	29,184	3,775	32,706	29,015	3,691
Wyoming	63,819	42,500	21,319	63,261	42,499	20,762

— Represents or rounds to zero. <sup>1</sup> Includes other states not shown separately.

Source: U.S. Energy Information Administration, *Annual Coal Report*, 2006. See also <[http://www.eia.doe.gov/cneaf/coal/page/acr/acr\\_sum.html](http://www.eia.doe.gov/cneaf/coal/page/acr/acr_sum.html)>.

**Table 880. Uranium Concentrate (U<sub>3</sub>O<sub>8</sub>) Industry—Summary: 1990 to 2007**

[In millions of feet (1.7 represents 1,700,000), except as indicated. See also Table 902 in Section 19]

Item	Unit	1990	1995	2000	2002	2003	2004	2005	2006	2007 <sup>1</sup>
Exploration and development, surface drilling	Mil. ft.	1.7	1.3	1.0	(D)	(D)	1.2	1.7	2.7	5.1
Expenditures	Mil. dol.	(NA)	2.6	5.6	(D)	(D)	10.6	18.1	40.1	67.5
Number of mines operated	Number	39	12	10	6	4	6	10	11	12
Underground	Number	27	—	1	—	1	2	4	5	6
Openpit	Number	2	—	—	—	—	—	—	—	—
In situ leaching	Number	7	5	4	3	2	3	4	5	5
Other sources	Number	3	7	5	3	1	1	2	1	1
Mine production	1,000 pounds	5,876	3,528	3,123	2,405	2,200	2,452	3,045	4,692	4,541
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)	(D)	2,681	4,259	(D)
Other sources	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	2,344	2,000	2,282	2,689	4,106	4,534
Concentrate shipments from mills and plants	1,000 pounds	12,957	5,500	3,187	3,810	1,600	2,280	2,702	3,838	4,050
Employment	Person-years	1,335	1,107	627	426	321	420	648	755	1,231

— Represents zero. D Data withheld to avoid disclosing figures for individual companies. NA Not available. <sup>1</sup> Preliminary.

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>>.